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(part 1 of 3)



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SUMMARY REPORT
ON THE 1988 SURFACE
EXPLORATION PROGRAM
MUSSELWHITE GRUBSTAKE (1973)

ONT 21-C 600 - 1988 SURFACE PROGRAM.

OM 87 2-C-275

Note - Only 1 set of drawings were
submitted to the government along
with this report. The drawings have
been stored at Sorex/Archival.

Placer Dome Inc.
Projects Development
June 1988

Summary

During the period January 8 to April 3, 1988 a major diamond drill program was conducted on the Musselwhite Grubstake (1973) Property. A total of 44 holes having an aggregate length of 12,300 metres was completed. Detailed drilling confirmed the continuity of mineralization in the T antiform to section 15+00N, and resulted in the discovery of a mineralized structure with some economic potential in the vicinity of the Esker on Opapimiskan Lake. Wildcat drilling was carried out on a number of northern iron formation targets elsewhere on the Property.

A revised mineral inventory has been calculated for the T and W antiformal systems. This study has identified a total of 5,459,537 tonnes grading 7.20 g/t uncut and 6.98 g/t cut to 25 grams. This includes the addition of 1,237,871 tonnes at an uncut grade of 7.21 and a cut grade of 7.03 g/t indicated by the recent drilling completed during the winter between section 10+50N and 15+00N.

A comparison of the August 1987 and June 1988 mineral inventories covering the T and W antiformal system between 0+00N and 10+00N has been completed. Although the overall tonnage is shown to decrease by 297,212 tonnes, a corresponding increase in the uncut and cut grades of 0.12 g/t is realized. This is due, mainly, to the deletion of a portion of the low grade fringe material of the August 1987 study from correlated zones of the June 1988 study.

Finally, geological correlation of the mineralized material within the PQ limb in the vicinity of the Esker reveals three discrete zones named the Esker, Core and Root Zones. An aggregate total of 351,100 tonnes grading 7.88 g/t uncut and 7.38 g/t cut to 25 grams is indicated in these zones. Furthermore, additional potential of 200,000 tonnes at an unknown grade is indicated within the Esker zone. The Esker area, while showing some economic potential, is extremely complex; further work will be required to resolve the geological setting of gold mineralization.



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Mineral Inventory List of Drawings

T-W Mineral Inventory

- 1:250 Scale Cross Sections 2-1-2-15-01 to 2-1-2-15
 1:1000 Scale Composite Plans 2-1-2-16-01 to 2-1-2-16-05
 1:1000 Scale Longitudinals 2-1-2-17-01 to 2-1-2-17-09

Esker Area Mineral Inventory

- 1:250 Scale Cross Sections 2-1-2-18-01 to 2-1-2-18-10C
 1:1000 Scale Longitudinals 2-1-2-19-1A to 2-1-2-19-3B
 1:1000 Scale Level Plans 2-1-2-20-1A to 2-1-2-20-4B
 1:1000 Scale Surface Plan DD# collar locations

1.0 INTRODUCTION

1.1 General Statement

The Musselwhite Grubstake (1973) Property is operated by Placer Dome Inc. under a Joint Venture Agreement between Placer Dome Inc., Esso Minerals Canada, Inco Gold and Lacana Ex (1981) Inc.

During the period January 8 to April 3, 1988, a major diamond drill program was conducted on the Opapimiskan Lake Property. Diamond drilling was performed by Midwest Drilling under the field supervision of the following Placer Dome Inc. personnel:

| | |
|-----------------|---------------------|
| R. W. Stewart | - Project Geologist |
| P. M. Gertzbein | - Geologist |
| M. F. Beckett | - Geologist |

1.2 Location and Access

The Musselwhite Grubstake (1973) Property is located approximately 120 kilometers north of Pickle Lake in Northwestern Ontario. Access to the property is provided by a 42 kilometer winter road from highway 808 or via chartered air service from Pickle Lake. The 574 claim property consists of a core of 226 leased mining claims bounded by 348 contiguous non-leased mining claims.

1.3 Program Objectives

The 1988 Surface Diamond Drill Program was formalized at a meeting of the Joint Venture Partners on December 4, 1987.

The program was designed to meet the following objectives:

- (1) Outline down plunge tonnage potential within the T antiform ("T" and "S" Deposits)
- (2) Perform follow-up and exploration in favourable areas where potential has been identified.
- (3) Perform limited wildcat exploration on favourable, previously untested target areas.

1.4 Diamond Drilling

During the winter diamond drill program, a total of 44 holes, having an aggregate length of 12,300 meters was completed. A detailed list of the drilling by zone or target area is presented in table 1. The bedrock portions of the lake holes were cemented on completion, while land holes were left intact with the casing capped.

Detailed diamond drill logs, along with 1:250 scale vertical cross sections of all the holes, accompany this report. A complete listing of all the holes, summarizing the results of winter diamond drill program is presented in table 2.

Table 1
 1988 Diamond Drilling
 Completed by Zone or Target Area

| <u>Zone/Target Area</u> | <u>Holes</u> | <u>Meterage</u> |
|-------------------------|--------------|-----------------|
| T Deposit | 11 | 4,587.0 |
| PQ Limb & Esker | 23 | 5,407.5 |
| 517 Follow up | 4 | 560.5 |
| W Zone | 1 | 305.0 |
| S Zone 0-8+00S | - | - |
| Limb to West Anticline | 1 | 326.0 |
| Bottenfield Bay | <u>4</u> | <u>1,114.0</u> |
| | <u>44</u> | <u>12,300.0</u> |

TABLE 2:

 MUSSELWHITE SUBSTAKE (1971)
 SUMMARY OF DIAMOND DRILL RESULTS
 1988

| HOLE | LINE | STN | DIP | DATE STARTED | DATE COMPLETED | LENGTH | CUMUL. LENGTH | ZONE | L/S EL | INTERS GRADE | CORE LENGTH | TRUE WIDTH | COMMENTS |
|------|--------|-------|--------|-----------------|-------------------|--------|------------------|--------------|-----------|-----------------|----------------|---------------|------------------------------|
| 541 | 10+50N | 0+25W | -64.5W | JAN 8 | JAN 15 | 397.0 | 397.0 | T | 5029.0 | 11.36 | 4.65 | 3.10 | T Main Zone |
| 542 | | | | | | | | T | 5005.0 | 6.92 | 8.00 | 5.20 | T West Arm |
| 543 | | | | | | | | T | 4994.0 | 0.84 | 6.20 | 4.10 | isolated intersection |
| 544 | 10+00N | 0+40W | -45E | JAN 9 | JAN 12 | 142.0 | 539.0 | PQ | 5238.0 | 5.23 | 1.50 | | Rare qtz/po |
| 545 | 11+00N | 0+40W | -45E | JAN 12 | JAN 14 | 158.0 | 697.0 | PQ | 5203.0 | 4.0F | 2.00 | | leaf, silicified |
| 546 | 10+00N | 1+5E | -53.5W | JAN 13 | JAN 17 | 335.0 | 1032.0 | W | 5167.0 | 1.80 | 3.00 | | leaf, weakly silicified |
| 547 | 10+00N | 4+45W | -50W | JAN 14 | JAN 19 | 326.0 | 1328.0 | Limb to West | Anticline | NIL | | | Dominated by 4f, rare qtz/po |
| 548 | 10+00W | 0+40W | -45E | JAN 17 | JAN 20 | 136.0 | 1464.0 | PQ | 5256.5 | 27.71 | 1.50 | | |
| 549 | 10+50N | 3+50W | -45E | JAN 15 | JAN 21 | 314.0 | 1778.0 | W | 5184.0 | 2.47 | 3.85 | 2.75 | |
| 550 | | | | | | | | T | 5096.0 | 16.13 | 11.55 | 8.20 | S Crest |
| 551 | 21+00N | 2+50W | -50E | JAN 19 | JAN 23 | 260.0 | 2038.0 | ESK | 5195.5 | 7.15 | 5.00 | 4.50 | leaf (ESKER ZONE) |
| 552 | 14+50N | 0+90W | -45E | JAN 20 | JAN 24 | 154.5 | 2192.5 | PQ | 5266.5 | 9.03 | 2.30 | 1.20 | |
| 553 | | | | | | | | PQ | 5233.0 | 4.93 | 5.95 | 4.50 | qtz/po veining in 4b lf |
| 554 | 30+00N | 1+25W | -45E | JAN 24 | JAN 27 | 179.0 | 2371.5 | ESK | 5240.0 | 1.33 | 1.50 | | (ESKER ZONE) |
| 555 | 18+00N | 1+25W | -45E | JAN 24 | JAN 27 | 149.0 | 2520.5 | PQ | 5225.0 | 0.30 | 2.00 | | |
| 556 | 36+00N | 1+30W | -45E | JAN 27 | JAN 30 | 133.0 | 2693.5 | ESK | 5244.0 | NIL | | | B VOLC (ESKER ZONE) |
| 557 | 11+00N | 3+25W | -59.5E | JAN 24 | JAN 31 | 262.0 | 3355.5 | W | 5133.0 | 1.51 | 1.00 | | |
| 558 | | | | | | | | T | 5046.0 | 7.53 | 21.70 | 13.60 | T Main Zone |
| 559 | 21+00N | 1+60W | -45E | JAN 30 | FEB 3 | 161.0 | 3261.5 | PQ | 5250.9 | 2.65 | 4.00 | 3.00 | |
| 560 | 23+00N | 1+35W | -45E | JAN 31 | FEB 3 | 158.0 | 3374.5 | PQ | 5217.0 | 6.44 | 2.60 | 2.00 | |
| 561 | 24+00W | 1+25W | -45E | FEB 3 | FEB 7 | 171.0 | 3545.5 | PQ | 5240.0 | 3.92 | 9.90 | | |
| 562 | 21+00N | 2+00W | -45E | FEB 3 | FEB 7 | 215.0 | 3760.5 | ESK | 5233.0 | 1.15 | 1.00 | 0.80 | (ESKER ZONE) |
| 563 | 11+50N | 3+25W | -60.5E | JAN 21 | FEB 9 | 411.0 | 4151.5 | W | 5116.0 | 0.83 | 1.10 | | |
| 564 | | | | | | | | T | 5043.0 | 0.86 | 20.00 | 11.90 | T Main Zone |
| 565 | | | | | | | | S | 5001.0 | 4.32 | 3.00 | | |
| 566 | 27+00N | 1+25W | -45E | FEB 8 | FEB 11 | 133.0 | 4334.5 | ESK | 5233.5 | 3.24 | 1.50 | 1.10 | (2-4e, ESKER ZONE) |
| 567 | 11+00N | 0+30 | -65W | FEB 7 | FEB 15 | 443.0 | 4777.5 | T | 4980.5 | 5.26 | 3.00 | 2.50 | T Main Zone |
| 568 | | | | | | | | T | 4958.0 | 11.91 | 3.85 | 3.10 | T West Arm |
| 569 | | | | | | | | S | 5025.0 | 3.16 | 4.65 | 3.00 | |
| 570 | 29+00N | 2+00W | -45E | FEB 12 | FEB 15 | 220.0 | 4997.5 | ESK | 5221.0 | 5.29 | 4.50 | 4.20 | (4f, ESKER ZONE) |
| 571 | 12+00N | 3+25W | -53.5E | FEB 9 | FEB 16 | 374.0 | 5371.5 | W | 5133.5 | 7.45 | 1.50 | 0.80 | (4fb) |
| 572 | | | | | | | | T | 5048.0 | 6.85 | 6.00 | 3.90 | S Crest |
| 573 | | | | | | | | S | 5020.0 | 0.25 | 6.95 | 4.60 | |
| 574 | 32+00N | 2+05W | -47E | FEB 15 | FEB 18 | 200.0 | 5571.5 | ESK | 5226.5 | 7.20 | 3.00 | 2.70 | (2-4ea, ESKER ZONE) |
| 575 | 12+00N | 0+00 | -64.5W | FEB 15 | FEB 23 | 410.0 | 6041.5 | S | 4986.0 | 4.81 | 4.60 | 3.00 | (4ea) |
| 576 | | | | | | | | T | 4940.0 | 5.14 | 4.25 | 3.00 | T Main Zone |
| 577 | 23+00N | 0+45W | -53E | FEB 18 | FEB 25 | 257.0 | 6298.5 | ESK | 5183.0 | 9.62 | 4.00 | 3.80 | leaf (ESKER ZONE) |
| 578 | | | | | | | | ESK | 5153.5 | 0.14 | 2.00 | 1.80 | Core Zone |
| 579 | 10+50N | 4+60W | -61.5E | FEB 16 | FEB 23 | 425.0 | 6723.5 | W | 5106.0 | 1.87 | 1.25 | 0.60 | |
| 580 | | | | | | | | T | 5011.0 | 6.27 | 3.50 | 2.30 | S Crest |
| 581 | | | | | | | | T | 5132.0 | 3.30 | 3.00 | 2.00 | T Main Zone |
| 582 | | | | | | | | S | 4990.5 | 0.75 | 3.05 | 2.50 | |
| 583 | 24+00N | 2+00W | -58E | FEB 23 | FEB 28 | 254.0 | 6977.5 | PQ | 5174.0 | 4.51 | 7.55 | 4.30 | |

TABLE 2:

 MUSSELWHITE GRUBSTAKE (1973)
 SUMMARY OF DIAMOND DRILL RESULTS
 1988

| HOLE | LINE | STN | DIP | DATE STARTED | DATE COMPLETED | LENGTH | CUMUL. LENGTH | ZONE | L/S EL | INTERS GRADE | CORE LENGTH | TRUE WIDTH | COMMENTS |
|------|---------|---------|--------|-----------------|-------------------|--------|------------------|------|--------|-----------------|----------------|---------------|--|
| 563 | 13+00N | 4+00W | -57.5E | FEB 23 | MAR 04 | 437.0 | 7414.5 | W | 5175.0 | 3.77 | 1.50 | | 4bf |
| 562 | | | | | | | | T | 4973.5 | 4.88 | 13.90 | 7.10 | T Main Zone |
| 562 | | | | | | | | T | 4949.0 | 5.26 | 10.50 | 5.50 | T Main Zone, Isolated block? |
| 569 | 22+00N | 3+00W | -60E | FEB 26 | MAR 04 | 368.0 | 7782.5 | ESK | 5088.0 | 5.62 | 2.00 | 1.50 | 4eab (ESKER ZONE) |
| 570 | 27+00N | 2+25W | -52E | FEB 29 | MAR 03 | 257.0 | 8039.5 | ESK | 5183.0 | 5.07 | 1.50 | 1.20 | 4bea (ESKER ZONE) |
| 571 | 29+00N | 2+25W | -56E | MAR 04 | MAR 08 | 257.0 | 8296.5 | ESK | 5184.5 | 9.32 | 1.50 | 1.30 | 4ea (ESKER ZONE) |
| 571 | | | | | | | | ESK | 5178.5 | 7.20 | 3.95 | 3.40 | 4ea (Root location) |
| 572 | 132+00E | 117+50W | -45E | MAR 05 | MAR 10 | 295.0 | 8591.5 | BOTT | 5225.0 | NIL | | | |
| 573 | 33+00N | 2+50W | -55.5E | MAR 09 | MAR 12 | 293.0 | 8884.5 | ESK | 5163.5 | 14.02 | 5.00 | 4.50 | 4ea (ESKER ZONE) |
| 573 | | | | | | | | ESK | 5157.5 | 4.82 | 3.00 | 2.80 | (Root Zone) |
| 573 | | | | | | | | ESK | 5140.0 | 4.90 | 4.50 | 3.60 | 4ea(b) (Core Zone) |
| 574 | 14+00N | 4+35W | -63E | MAR 05 | MAR 12 | 455.0 | 9339.5 | W | 5081.0 | 4.25 | 1.50 | 0.70 | |
| 574 | | | | | | | | T | 4992.0 | 7.97 | 13.60 | 8.30 | S Crest |
| 574 | | | | | | | | S | 4958.0 | 8.00 | 5.00 | 2.80 | |
| 575 | 112+00E | 107+00W | -45E | MAR 11 | MAR 15 | 291.0 | 9620.5 | BOTT | | NIL | | | |
| 576 | 33+00N | 3+00W | -56.2E | MAR 13 | MAR 17 | 326.5 | 9947.0 | ESK | 5118.5 | 3.12 | 5.60 | 4.90 | 4ea (ESKER ZONE) |
| 577 | 164+00S | 136+10W | -45E | MAR 15 | MAR 19 | 221.0 | 10169.0 | BOTT | 5207.0 | 1.99 | 1.50 | 1.20 | 4bfa |
| 578 | 15+00N | 4+60W | -63E | MAR 13 | MAR 22 | 509.0 | 10677.0 | W | 5060.5 | 4.39 | 1.50 | 0.70 | |
| 578 | | | | | | | | T | 4974.5 | 14.5 | 7.00 | 4.80 | S Crest |
| 578 | | | | | | | | S | 4949.5 | 8.90 | 4.00 | 2.70 | |
| 578 | | | | | | | | S | 4906.0 | 8.03 | 5.00 | 3.50 | |
| 579 | 21+00N | 2+75W | -50E | MAR 15 | MAR 22 | 306.5 | 10983.5 | ESK | 5155.0 | 10.39 | 3.00 | 2.00 | 4ea (first unit, NOT ESKER ZONE, ISOLATED) |
| 579 | | | | | | | | ESK | 5146.5 | 8.83 | 3.20 | 2.80 | 4ea (ESKER ZONE) |
| 579 | | | | | | | | ESK | 5139.0 | 4.15 | 10.00 | 8.60 | (Root Zone) |
| 579 | | | | | | | | ESK | 5119.5 | 7.67 | 2.00 | 1.60 | 4ea (Core Zone) |
| 580 | 143+00E | 125+00W | -45E | MAR 20 | MAR 26 | 317.0 | 11300.5 | BOTT | 5169.0 | 12.82 | 1.00 | 0.90 | 4ba |
| 581 | 26+00N | 3+10W | -56E | MAR 23 | MAR 29 | 319.0 | 11619.5 | ESK | 5126.0 | 8.17 | 2.95 | 2.50 | 4ea (ESKER ZONE) |
| 582 | 25+00N | 2+75W | -51E | MAR 23 | MAR 29 | 308.0 | 11927.5 | ESK | 5131.0 | 15.70 | 3.00 | 2.60 | (ESKER ZONE) |
| 582 | | | | | | | | ESK | 5118.0 | 4.70 | 9.65 | 7.70 | (Root Zone) |
| 583 | 9+00N | 0+30W | -45E | MAR 24 | APR 01 | 124.5 | 12052.0 | PQ | 5249.0 | 5.30 | 6.00 | 5.10 | 4b(ea) |
| 584 | 30+00N | 2+75W | -53E | MAR 30 | APR 03 | 240.0 | 12300.0 | ESK | 5198.0 | 17.00 | 4.00 | 3.70 | 4ea (ESKER ZONE) |

Detailed diamond drilling was concentrated in two areas of known mineralization, the T Deposit and the Esker Area, while wildcat drilling was carried out on a number of previously unexplored northern iron formation targets interpreted from the ground magnetic data. Figure 1 presents an illustration of the areas of drilling on the property.

Drilling on the T Deposit was conducted between gridlines 10+50N and 15+00N. This work has confirmed the down plunge continuity of mineralization to section 15+00N. A total of four distinct mineralized zones have been traced within this environment, named the T main zone, the West Arm, S crest and S zones. A 50 metre westward shift of the entire antiform has been observed between sections 10+00N and 15+00N. This, along with the progressive growth of the S limb antiform toward the north, illustrates the dynamic nature of the T antiform structure. Although the vertical limits of economic mineralization within the T antiform appear to have been established, the deposit remains open down plunge.

A total of 27 holes was drilled on the PQ limb between 9+00N and 39+00N. This work resulted in the discovery of a mineralized structure with some economic potential in the vicinity of the Esker on Opapimiskan Lake. Three discrete zones named the Esker, the Core and the Root zones have been traced in a complexly folded, left limb environment. The Esker zone appears to have the greatest economic potential.

Elsewhere along the limb, systematic coverage revealed the presence of sporadic quartz pyrrhotite style mineralization. Notably, hole MUS583 returned 6.00 g/t over 5.1 metres on line 9+00N, hole MUS549 returned 9.03 g/t over 2.3 metres on line 14+50N and hole MUS555 returned 6.44 g/t over 2.6 metres on line 39+00N. Although individually, these results indicate potential within this system, their strike extent and continuity are likely limited.

A single hole, MUS544, was drilled exclusively on the W antiform to test the western margin of the system. This hole revealed a structural setting not unlike the T antiform however, it is dominated lithologically by garnet biotite schist. As a consequence, mineralization was very low grade and limited in extent. An additional eight holes, targeted primarily at the T zone, also cored the W antiform. Although anomalous gold values were returned in most of these holes, the W antiform appears to have little economic potential between sections 10+50N and 15+00N.

Along the northern iron formation limb to the west Anticline, a single hole MUS 545 was drilled to test a large pair of antiforms on line 13+50N. Although a significant amount of iron formation was encountered, this area was also dominated by garnet biotite schist.

A total of 4 holes were drilled to test folded structures in the northern iron formation axis south of Bottenfield Bay on the western side of the property. These holes were drilled along grid lines 112+00S, 132+00S, 148+00S and 164+00S on the old imperial grid. The stratigraphy encountered in these holes is dominated by chert-magnetite-grunerite (4ba) iron formations. Numerous magnesium rich basalt/ultramafic units were encountered in each hole, possibly representing a single refolded horizon. Mineralization throughout these holes is very low grade, with rare anomalous values reported.

1.5 Other Contractors

A four-man crew of Geocanex Ltd. from Pickle Lake was retained during the period December 15 to 20, 1987 to establish an extension of the East Bay metric grid. The extension covered a 3 kilometer length of the northeast magnetic axis (PQ limb) from the south shore of East Bay, to line 40+00N, for a total of 44 kilometers of cut and chained line. As part of this work, a set of tielines extending along the southwest shore of East Bay were established to form a permanent reference for future surface programs.

Caron Industries Ltd. of Winnipeg was contracted to provide a total of 52 prefabricated core racks. These racks were installed at the project site for diamond drill core storage.

Two surveyors from W.J. Bowman Ltd. mobilized to site on two separate occasions to survey diamond drill collars. A complete listing of these collar coordinates is presented in Appendix I. In addition, the surveyors established three permanent monuments on the baseline at the Esker in East Bay, surveyed the winter road to Bottenfield Bay and established the East Bay mine survey grid system under the supervision of J.S. Redpath Ltd.

1.6 Sample and Assay Procedures

Strict procedures for sampling and assaying have been maintained with split core samples assayed at the following laboratories:

Accurassay Ltd., Red Lake, Ontario

Accurassay Ltd., Kirkland Lake, Ontario

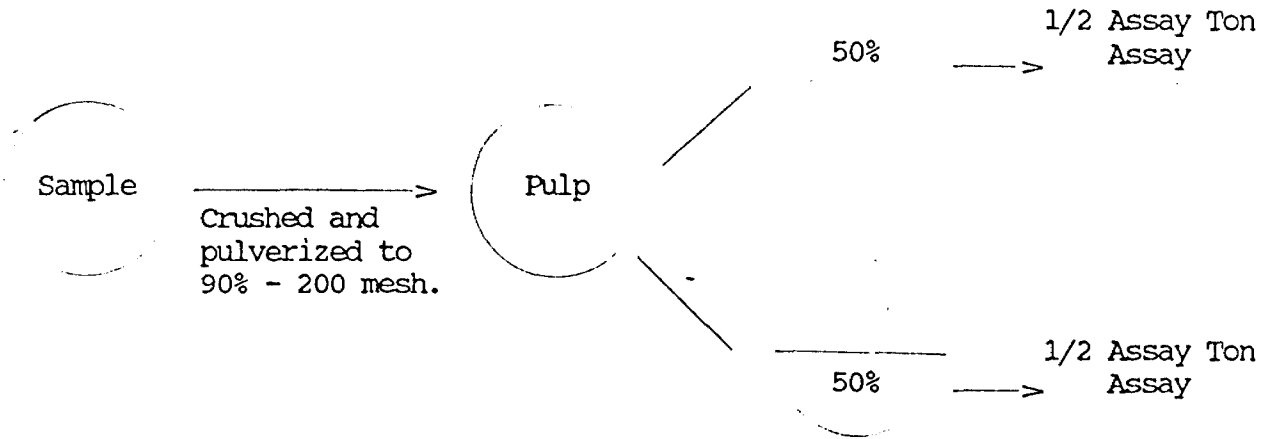
Wawa Assaying Ltd., Wawa, Ontario

Core was split in such a manner that the stored split core forms a continuous interlocking half of the original core. No attention was paid to the location of visible gold to ensure unbiased results.

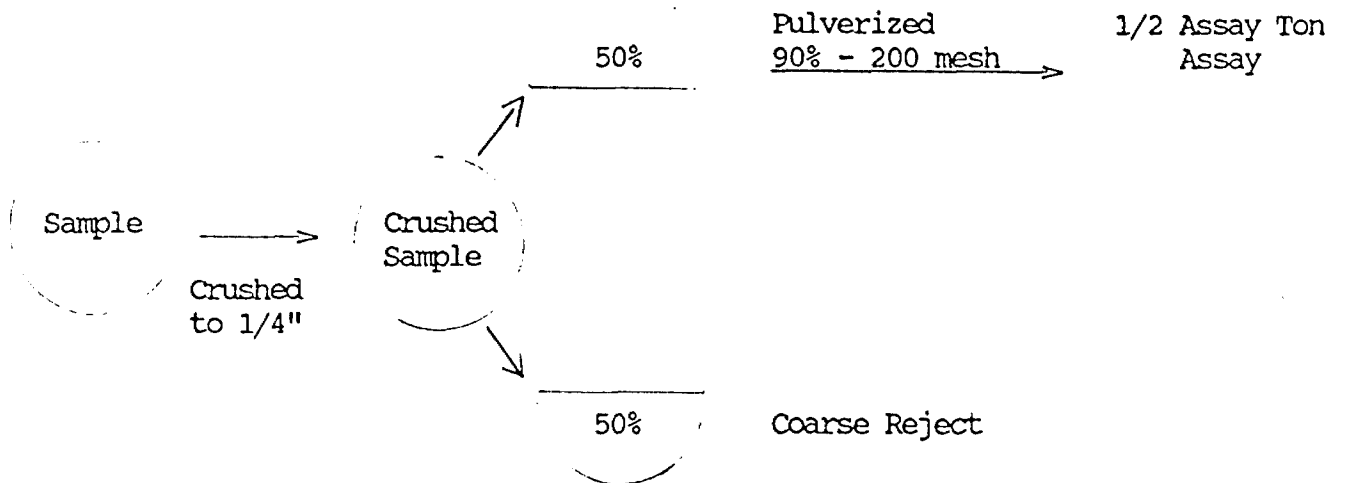
Sample intervals vary between 0.5 - 1.5 meters, although standard 1.0 meter lengths were collected wherever possible in northern iron formation mineralized zones. All sampling was geological in nature, such that sample intervals do not cross major geologic contacts.

Figure 2: Assay Procedures

A. Samples tagged "VG" (Visible gold).



B. Standard Samples (not tagged "VG")



Note: When original assay returned a value > 6,0 g/t a second assay is performed on the coarse reject.

Two assay procedures were employed at the request of the Operator. Samples were tagged "VG" if visible gold was noted, or if a significant quantity of pyrrhotite mineralization ($\geq 3 - 5\%$) was observed in the core. These samples were completely pulverized, split into two equal halves and assayed individually.

In the case of samples not tagged "VG" the sample was first crushed and split in two-equal halves. One half was pulverized and a single assay was routinely performed on this portion. When this assay returned a value in excess of 6.0 g/t a second assay was performed on the coarse reject.

Figure 2 illustrates these assay procedures. All assay pulps and rejects are permanently stored at Placer Dome's Campbell Mine in Balmertown, Ontario. All unsampled and split core has been stored on the Musselwhite Grubstake (1973) property.

2.0 T DEPOSIT MINERAL INVENTORY

2.1 General Statement

The methodology for the calculation of the T Deposit mineral inventory has been revised. This method is based, in part, on the results of the 1988 Surface Diamond Drill Program and a on a review and re-correlation of all of the mineralization identified within the T antiform system. All of the diamond drill holes have been reviewed and all of the diamond drill cross-sections have been revised and/or reinterpreted.

The study area, covers an area between 1+00W and 3+00W extending from line 0+00 to 15+00N on the East Bay grid. Mineralization contained within the T antiform system was the focus of this study. Only minor revisions were made to the tonnage and grade assessment of the W zone, as a result of the methodology applied herein. Finally the results of this study were compared with those documented in the report on the August 1987 mineral inventory of the T and W Antiforms on the Musselwhite Grubstake (1973) Property.

2.2 Methodology

The mineral inventory calculations are based on the results of surface diamond drilling performed on roughly 50 metre centres. Diamond drill hole projections have been plotted on vertical West Upper, West Lower and West Lower Extension cross sections (Drawing Nos. 2-1-2-15-1 to 2-1-2-15-25B). Individual assays were grouped into mineralized zones on each section, based on specific criteria outlined in section 2.3. These zones were correlated from section to section using composite Mineralized Zone Level Plans spaced at 25m centres (Drawings 2-1-2-16-01 to 2-1-2-16-05). Special attention was exercised in order that a smooth three dimensional fit was maintained. Pierce points, summarizing the relevant uncut intersection grade, core length and true width were subsequently plotted on a longitudinal section, specific to the zone.

This correlation provides the framework for the inventory calculation with block boundaries following each zone outline.

Individual inventory blocks were further defined by the criteria and categories discussed below.

2.3 Inventory Block Criteria

The following criteria, were applied in determining individual mineral inventory drill indicated block limits:

- a) A block must have a minimum true thickness of 2.0 metres.
- b) An assay wall cut off grade of 3.43 g/t was generally applied to mineralized intersections to determine block boundaries.
- c) Blocks were identified using the above grade criteria (b) and geological correlation in order to maintain a smooth "ore" outline. Geological criteria include:

- 1) Visible gold
 - 2) Greater than or equal to 3-5% pyrrhotite mineralization. Sulphides form a ubiquitous constituent of the mineralized zone; however, it has been observed that gold content may decrease prior to a significant decrease in sulphides.
- d) Blocks have been extended up dip to the mid point between diamond drill holes, providing geological correlation of the zone is indicated on the section. Where intersections are

unsupported by adjacent drill holes, blocks have been extended to a maximum of 10 m up to or down dip.

- e) In the case of the T main zone, the upper block limit has been defined by a combination of assay data and geology. Such block boundaries may cut drill holes at irregular angles.
- f) Blocks have been oriented horizontally and extended to a maximum of 50 m along strike.
- g) Block volume has been determined by the average of three planimetered areas on 1:250 scale vertical cross sections, multiplied by the strike length of the block.
- h) Tonnage has been calculated by multiplying block volume by a specific gravity of 3.2 tonnes per cubic metre.
- i) Intersection grades have been determined by the metres weighted average of all of the assays contained within the block.
- j) The grade of blocks containing more than one diamond drill hole have been calculated by taking the arithmetic average grade of the individual drill hole intersection grades.
- k) Grades have been calculated using uncut and cut to 25 g/t grade levels.

This mineral inventory includes the classification of "geologically-inferred material". This material has been added to only the "T Main", "West Arm", and "S Crest" categories. Inferred blocks have not been added to the "S Zone" category due to zone variability and limited height along strike. Geologically-inferred blocks have been identified by applying the following criteria:

- l) Material lying outside the area of influence of a drill indicated block but within the limits of the correlated mineralized zone has been classified as "geologically-inferred". Block dimensions have been determined to reflect vertical and plunge continuity of drill indicated mineralization.
- m) The total tonnes weighted average grade of the given zone has been applied to each inferred block.
- n) Due to the paucity of down plunge drilling, no drill inferred tonnages have been applied to sections 13+50N and 14+50N. In addition, the limit of drill inferred tonnage on the T main zone is section 13+00N.
- o) All geologically inferred blocks are indicated on the 1:250 scale cross sections by the subscript "P".

2.4 Categories

Six zone categories have been established to differentiate the mineralized zones within the study area. All of these zones occur in a garnet-amphibole-chert-grunente (4ea) iron formation.

2.4.1 T Main Zone

The T main zone occurs along the western margin of the T antiform. The zone dips subvertically and varies in height from approximately 50 meters to a maximum of 105 metres on section 12+50N. This increase in height is attributed to a narrow root which can be traced into the core lithologies of the T antiform. The zone varies in width from a maximum of 20 metres toward the upper limit, gradually tapering to a minimum of 2.0 metres at depth. The upper limit is characterized by a complex series of tight antiformal folds, which dilute the mineralization. As a result, the top of the T main zone is defined by a grade cut off along with geometry identified in longitudinal section.

The T main zone has a plunge length of 1,200 metres extending from 2+00N to 14+00N. The zone is open down plunge.

2.4.2 West Arm

The West Arm Zone is located immediately to west of the T main zone in the same iron formation horizon. The upper limit of the West Arm system is defined by a set of plunging minor folds occurring approximately 50 metres beneath the crest of the T main zone.

The West Arm zone has been further subdivided into an A zone and B zone. These zones are separated by an assay waste gap, and are believed to represent two distinct parallel striking axial planar conduit systems. The two zones have a common base on section 5+00N through 6+50N and appear to split into two subvertical tabular bodies. These zones range from 40 to 100 metres in height and from 2.0 metres to 18.0 metres in width. The West Arm A zone has been traced along a 700m plunge length from 5+00N to 12+00N while the B zone has been traced along a 250 metre length from 4+00N to 6+50N. Additional tonnage potential exists up plunge in the B zone, while the A zone is open down plunge.

2.4.3 S Crest Zone

The S crest zone forms a discrete, correlatable system from 7+00N to 15+00N. The zone ranges in height from 45 to 90 metres and in width from 3.0 to 9.0 metres. Unlike the West Arm, the S crest and T main zone are believed to share an axial planar feeder system south of 7+00N. As a result these two zones appear connected and have been assessed as the T Main Zone.

Toward the north the gap between the S crest and T main zone widens and becomes better defined. This is the result of the progressive growth of a synformal fold in the crest of the T antiform. Mineralization associated with the S crest improves toward the down plunge limit of drilling

as indicated by holes MUS574 and MUS578, returning 7.97 g/t over 13.60m and 14.50 g/t over 7.0m respectively. The S crest zone is open down plunge.

2.4.4 S Zone

The S zone is located on the eastern margin of the T antiform. It is comprised of mineralized intersections cored in a distinct 4ea (garnet-amphibole-chert-grunerite) iron formation that appears to pinch out approximately 50 to 60 metres from the T antiform crest.

Gold mineralization is focused within an antiformal minor fold that increases dramatically in amplitude toward the north. In addition, the locus of economic mineralization shifts from the eastern margin of the iron formation to the western margin down plunge. This apparent shift in mineralization is not well understood, and as a result no geologically inferred mineralization has been included in the S zone.

2.4.5 Isolated Blocks

Unlike the previous mineral inventory studies, the isolated block category has been revised to include only that mineralization which satisfies the criteria listed in section 2.3 and is found within the northern iron formation, T antiform.

The majority of the isolated blocks are located in two principal areas of the antiform. The first is found in the eastern most crest of the T antiform, immediately east of the S crest. Gold mineralization identified here exhibits a certain degree of continuity but due to lack of diamond drill coverage, tonnages associated with this site have been included in this category to reflect a lower confidence level.

The second principal location of isolated blocks is found west of the West Arm B Zone between sections 10+00N and 11+00N. Mineralization in this area may represent a discrete lens, exhibiting limited strike length.

2.5 Results

The total tabulated June 1988 mineral inventory of the T and W antiforms is presented in Appendix 2 and summarized in Table 3. Illustration of all of the individual blocks are presented in diamond drill sections (Drawings 2-1-2-15-01 to 2-1-2-15-25B). Plan view presentation of the T Main, S crest and West Arm inventory blocks are illustrated on 25m spaced composite level drawings 2-1-2-16-01 to 2-1-2-16-01. Individual longitudinal sections of the T main zone, West Arm A zone, West Arm B zone, S crest zone and S zone are presented in drawings 2-1-17-01 to 2-1-2-17-09.

Table 3

Total June 1988 Mineral Inventory
of the T and W antiforms

| CATEGORY | DRILL INDICATED | | | | GEOLOGICALLY INFERRED | | | | GLOBAL TOTALS | | | |
|-----------------------|-----------------|-------|------|-----------|--------------------------|------|------------|-------|---------------|---------------|-----------------|-----|
| | TONNES | GRADE | | TONNES | GRADE | | TONNES | GRADE | | TONNES | CONTAINED GRAMS | |
| | | UNCUT | CUT | | UNCUT | CUT | | UNCUT | CUT | | UNCUT | CUT |
| T Main Zone | 1,928,815. | 6.37 | 6.21 | 694,380. | 6.37 | 6.21 | 2,623,195. | 6.37 | 6.21 | 16,716,588.29 | 16,293,927.80 | |
| West Arm A&B Zones | 992,958. | 7.92 | 7.69 | 289,299. | 7.92 | 7.69 | 1,282,257. | 7.92 | 7.69 | 10,159,624.19 | 9,865,368.02 | |
| S Crest Zone | 456,650. | 8.55 | 8.10 | 335,571, | 8.55 | 8.10 | 792,221. | 8.55 | 8.10 | 6,773,636.51 | 6,418,420.98 | |
| S Zone | 335,488. | 8.39 | 8.07 | --- | --- | --- | 335,488. | 8.39 | 8.07 | 2,814,879.90 | 2,706,948.70 | |
| Isolated Blocks | 249,747. | 7.00 | 6.86 | --- | --- | --- | 249,747. | 7.00 | 6.86 | 1,747,287.70 | 1,714,071.10 | |
| W Zone | 176,628. | 6.31 | 6.29 | --- | --- | --- | 176,628. | 6.31 | 6.29 | 1,115,319.07 | 1,110,855.07 | |
| Totals | 4,140,286. | 7.18 | 6.97 | 1,319,250 | 7.26 | 7.02 | 5,459,536. | 7.20 | 6.98 | 39,327,335.36 | 38,109,591.67 | |

Table 4 presents a summary of the mineralized tonnages identified from 10+50N to 15+00N. These figures reflect drilling performed on the Grubstake during the 1988 Winter Exploration program. Although nearly 61% of the tonnage identified in this vicinity has been classified as geologically inferred, a reasonable confidence in these figures is justified. Thorough drill coverage, albiet widely spaced, combined with the observed plunge continuity in the system support this contention.

2.6 Review and Comparison

In order to compare the results of the August 1987 and June 1988 Mineral Inventories, it is vital that the different methodologies of the two studies be clearly understood. First the tonnage and grade assessment of the August 1987 inventory was determined by way of statistical, parallel sided blocks, based solely on grade criteria. As a result minimal consideration was given to location of a given block in three-dimensional space. This method, was believed to fairly represent the global grade and tonnage of the system. In contrast, the inclusion of material to a given zone in the May 1988 inventory was based on a tight three dimensional correlation.

Table 5, summarizes the results of the comparison of the two mineral inventory studies covering an area from 0+00 to 10+00N. Due to the recorrelation and reclassification of mineralized material, direct comparisons cannot be made in all cases.

Table 4
 Summary of 1988 Winter Diamond
 Drill Mineral Inventory

| DRILL INDICATED | | | | GEOLOGICALLY INFERRED GRADE | | | TOTALS | | | |
|-----------------------|----------|-------|------|--------------------------------|-------|------|------------|-------|------|--------------------|
| CATEGORY | TONNES | GRADE | | TONNES | GRADE | | TONNES | GRADE | | CONTAINED UNCUT |
| | | UNCUT | CUT | | UNCUT | CUT | | UNCUT | CUT | |
| T Main Zone | 200,963. | 6.84 | 6.83 | 483,015. | 6.37 | 6.21 | 683,978. | 6.51 | 6.39 | 4,451,108.5 |
| West Arm A&B Zones | 34,582 | 5.94 | 5.94 | 87,650. | 7.92 | 7.69 | 122,232. | 7.35 | 7.19 | 889,594.5 |
| S Crest Zone | 102,100 | 9.62 | 9.02 | 181,050. | 8.55 | 8.10 | 283,150. | 8.94 | 8.43 | 2,530,034.5 |
| S Zone | 80,693. | 6.85 | 6.85 | --- | -- | -- | 80,693. | 6.85 | 6.85 | 552,968.5 |
| Isolated Blocks | 67,818. | 7.56 | 7.56 | --- | -- | -- | 67,818. | 7.56 | 7.56 | 512,767.5 |
| W zone | --- | -- | -- | --- | -- | -- | --- | -- | -- | --- |
| Totals | 486,156. | 7.46 | 7.33 | 751,715. | 7.07 | 6.96 | 1,237,871. | 7.21 | 7.03 | 8,936,473.5 |

Table 5

Comparison of the August 1987 and June 1988 Mineral Inventories

(0+00 to 10+00M)

| August 1987 Mineral Inventory | | | | | June 1988 Mineral Inventory | | | | | NET CHANGE | | | | REASONS FOR CHANGE | | | |
|-------------------------------|------------|-------|------|-----------------|-----------------------------|-----------------|------------|-------|------|-----------------|---------------|-------------|---------|--------------------|-----------------|-----------------|--|
| CATEGORY | TONNES | GRADE | | CONTAINED GRAMS | | CATEGORY | TONNES | GRADE | | CONTAINED GRAMS | | TONNES | GRADE | | CONTAINED GRAMS | | |
| | | UNCUT | CUT | UNCUT | CUT | | | UNCUT | CUT | UNCUT | CUT | | UNCUT | CUT | UNCUT | CUT | |
| Main & Waste | 3,138,273. | 7.67 | 7.45 | 24,066,606.25 | 23,388,769.02 | T Main | 1,939,217. | 6.32 | 6.15 | 12,255,479.39 | 11,921,731.31 | (1,199,056) | (9.85) | (9.56) | (11,811,126.86) | (11,467,037.71) | Removal of West Arm & addition of some fringe material Reclassification into correlated zones |
| Fringe | 612,194. | 2.98 | 2.98 | 1,823,643.60 | 1,823,643.60 | West Arm A&B | 1,160,026. | 7.98 | 7.75 | 9,260,019.90 | 8,986,115.11 | 1,160,026 | 7.98 | 7.75 | 9,260,019.90 | 8,986,115.11 | |
| Crest | 176,018. | 7.79 | 7.26 | 1,370,640.23 | 1,277,190.59 | S Crest | 509,071. | 8.34 | 7.92 | 4,243,602.02 | 4,030,564.23 | 333,053 | 8.63 | 8.27 | 2,872,961.79 | 2,753,373.64 | Classification as a discrete zone Correlation & reinterpretation |
| Sub-Total | 3,926,485. | 6.94 | 6.75 | 27,260,890.08 | 26,489,603.21 | Sub-Total | 3,608,314. | 7.14 | 6.91 | 25,759,101.31 | 24,938,410.65 | (318,171) | (4.72) | (4.88) | (1,501,788.77) | (1,551,192.56) | Net of above |
| Zone | 242,895. | 9.88 | 9.30 | 2,398,698.09 | 2,258,438.65 | S Zone | 254,795. | 8.88 | 8.45 | 2,261,911.8 | 2,153,962.6 | 11,900 | (11.49) | (8.78) | (136,786.29) | (104,476.05) | Addition of grade tonnage and reassessment of grade on sections 8+00M & 9+00M |
| Isolated Blocks | 168,282. | 6.90 | 6.38 | 1,160,634.89 | 1,073,074.89 | Isolated Blocks | 181,929. | 6.79 | 6.60 | 1,234,520.01 | 1,201,303.50 | 13,647 | 5.41 | 9.40 | 73,885.12 | 128,228.61 | Not comparable |
| Zone | 181,216. | 6.31 | 6.29 | 1,143,601.99 | 1,139,137.99 | W Zone | 176,628. | 6.31 | 6.29 | 1,115,319.07 | 1,110,855.07 | (4,588) | (6.16) | (6.16) | (28,282.92) | (28,282.92) | Change in area of influence on section 9+00M |
| Grand Total | 4,518,878. | 7.07 | 6.85 | 31,963,825. | 30,960,255.0 | Totals | 4,221,666. | 7.19 | 6.97 | 30,370,852. | 29,404,532. | (297,212) | (5.36) | (5.23) | (1,592,973.) | (1,555,723.) | Net of Above |

To enable a comparison of the results of the T main system, the categories T main, T waste, Fringe and S crest of the August 1987 study have been summed. This number may be compared to the aggregate of the T main, West Arm A & B and S crest categories of the June 1988 study. The results reveal an overall drop of 318,171 tonnes with a corresponding increase in the uncut grade of 0.20 g/t and in the cut grade of 0.16 g/t. The decrease in tonnage and increase in grade can be largely attributed to the removal of non-correlatable fringe material. The overall grade increase in the June 1988 study is somewhat offset by the addition of low grade material in order to maintain a smooth, three dimensional correlation.

In the case of the S zone, a direct comparison can be made. Although only a marginal increase in tonnage is realized, a 10% drop in grade is illustrated. This reduction in grade is due in part, to the addition of low grade tonnage on section 6+50N and to the re-assessment of block grades on sections 8+00N and 9+00N.

Comparison of mineralization classified as "Isolated blocks" cannot be made. Whereas the August 1987 study included tonnages found in all of the rock types in the study area, only that mineralization found in the T antiform iron formation structure is tabulated in the June, 1988 study. It should be noted that a certain percentage of the isolated block mineralization may be correlatable as pointed out in section 2.4.5.

Finally, the tonnage and grade assessment of the W zone reveals little change. The slight reduction in tonnage is due to the decrease in area of influence applied to the blocks on 9+00N.

In summary, the global total tonnage and grade assessments of the T and W antiformal system, documented in the August 1987 study and the June 1988 study compare favourably in light of the contrasting methodologies employed. The net tonnage decrease and associated grade increase displayed in the June 1988 totals, is largely due to the reclassification and correlation of low grade fringe material surrounding the T main and West Arm zones.

3.0 ESKER AREA MINERAL INVENTORY

3.1 INTRODUCTION GENERAL STATEMENT

A surface mineral inventory of correlated mineralized material within the "PQ" limb in the vicinity of the Esker on Opapimiskan Lake, has been completed. This inventory is assessed, based on surface diamond drill information conducted from January 08 to April 03, 1988 at the Musselwhite Grubstake (1973) property. The study area extends from 27+00N to 36+00N, and 1+00E to 3+10W. The area contains three separately correlated zones named the Esker, Root, and Core zones respectively.

3.2 GEOLOGY CORRELATION

The Geological units within the "Esker" area present a unique problem in East Bay correlation. Iron Formation units as identified from diamond drill core contain mixtures of multiple subunits, rendering discrete identification difficult. Consequently, groups of units are "packaged" together to reflect stratigraphically higher or lower lithologies. This method was found to produce a correlated geological outline of the Esker area units. The complex nature of structure and lithology within this area resulted in correlation becoming relatively less certain eastward within the Esker system.

Geological contacts and mineralized zone boundaries are correlated from section to section using four level plans spaced at

25 metre levels throughout the Esker area. The fold system appears to be very dynamic, characterized by northward curvilinear plunge on fold crests, but with regional northward plunge of 5 to 10 degrees. In addition, there appears to be a 5 to 10 metre westward deflection in the fold system, identified between 29+00N to 32+00N and again toward 36+00N. Such a deflection is confirmed in ground magnetic data.

Upon completion of geological correlation, mineralization was blocked and classified as detailed below.

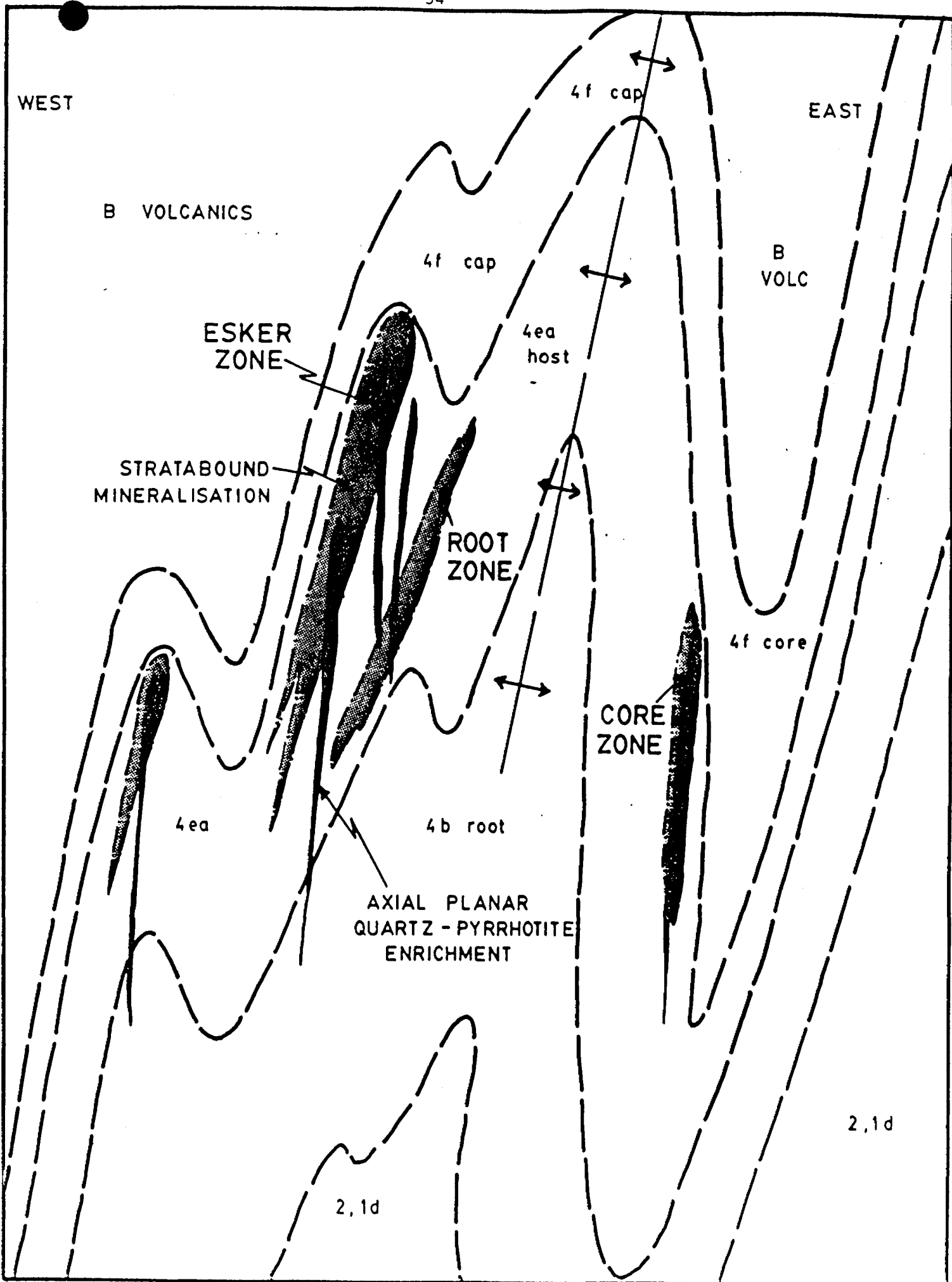
3.3 MINERALIZATION CATEGORIES

Four categories of Au mineralization were blocked within the Esker Area. These categories are summarized in Table 6.

Table 6: Mineral Inventory Categories

| CATEGORY | MINERALIZATION STYLE | ENVIRONMENT |
|------------------------------------|--|--|
| Esker Zone Conservative Blocks | Sulfidized Iron Formation and QTZ/po veining | 4ea I.F. West Limb of the Esker fold |
| Root Zone Conservative Blocks | Sulfidized I.F. and QTZ/po veining | 4ea I.F. East of Esker Zone |
| Core Zone Conservative Blocks | | 4ea I.F. adjacent to 4f unit in fold centre |
| Esker Zone Additional Potential | Sulfidized I.F. and QTZ/po veining Conservative Blocks | Correlated from Esker Zone conservative blocks within geological boundaries. |

Figure 3: Simplified sketch of Esker area fold displaying mineralization types comprising correlated mineralized zones. Axial Planar quartz-pyrrhotite-Au enrichment results in stratabound mineralized zones within the 4ea host.



3.4 MINERALIZATION MODEL

The 4ea (garnet-amphibole-chert-grunerite) iron formation within the Esker area comprises a lithologically, and perhaps geochemically, favourable environment for Au deposition. Axial planar Au mineralization is trapped beneath an impermeable 4f cap, resulting in stratabound gold enrichment, particularly in fold crests on the west side of the Esker fold. Evidence from diamond drill core indicates that economic Au mineralization is largely confined to the 4ea I.F. unit. Figure 3 illustrates this model.

3.5 CRITERIA and METHODOLOGY - Conservative Inventory

CRITERIA

Mineral inventory blocks are identified by applying the following criteria:

- a) A block must have a minimum true thickness of 1.50 metres.
- b) An assay wall cut-off grade of 3.43 g/t was generally applied to mineralized intersections to determine block boundaries.
- c) Blocks are identified using the above grade criteria (b) and geological correlation in order to maintain a smooth, consistent mineralized outline. Geological criteria include:
 - 1) Visible gold.

- 2) Presence of greater than or equal to 3-5% pyrrhotite mineralization. Although pyrrhotite is generally associated with Au mineralization, it cannot be directly correlated with Au assay values, as has been the case elsewhere in East Bay.
- d) Blocks must be correlated over two adjacent sections (i.e. over 200 metres total of strike length).

METHODOLOGY

- a) Blocks are extended up - and down - dip to a distance of 10 metres from the drill intersection, maintaining conservative block areas, in order to reflect the difficulty in correlation within this zone.
- b) Blocks are oriented horizontally and extended to a distance of 100m along strike.
- c) Block volume is determined by an average of three planimetered areas on 1:250 scale vertical cross sections, multiplied by the strike length of the block.
- d) Tonnage is calculated by multiplying block volume by a specific gravity of 3.2 grams per cubic centimetre.
- e) Intersection grades are determined from the metres weighted average of all assays contained within the block.
- f) Grades are calculated using uncut and cut to 25 g/t grade levels.

3.5.1 METHODOLOGY - Additional Potential (Esker Zone only)

- a) Blocks outlining "additional potential" are extended to the midpoint between drillholes on a drill section, providing that geological correlation is indicated. When drillhole midpoints are not available, the "additional potential" blocks are extended to 15 metres along dip beyond the limit of the conservative blocks.
- b) Block grades are not assessed in order to reflect the relative uncertainty in correlating grades along dip.

3.6 RESULTS

The tabulated conservative mineral inventory for the Esker area is presented in Appendix IIIa. and summarized in Table 7. All inventory blocks are illustrated on Diamond Drill cross sections Drawings 2-1-2-18-1A to 2-1-2-18-10C.

The greatest level of confidence is placed in Esker Zone blocks since these blocks represent correlation over 800 metres of mineralized strike length. In addition, lithologies appear to correlate more readily along the western margin of the iron formation in the vicinity of the Esker Zone. Hence confidence in the true location of Au mineralization along strike is high.

MUSSELWHITE MINERAL INVENTORY

MAY, 1988

ESKER AREA - CONSERVATIVE CASE

| Category | Tonnes | Grade | | CONTAINED GRAMS | |
|------------|-----------|-------|------------|-----------------|------------|
| | | Uncut | Cut(25g/t) | Uncut | Cut(25g/t) |
| ESKER ZONE | 190432.00 | 10.62 | 9.66 | 1915883.90 | 1742235.20 |
| FORE ZONE | 45267.20 | 6.40 | 6.40 | 289816.83 | 289816.83 |
| ROCK ZONE | 125491.60 | 4.47 | 4.47 | 560046.00 | 560046.00 |
| TOTALS | 371190.80 | 7.88 | 7.78 | 2765746.82 | 2592098.11 |

Confidence is somewhat lower in conservative blocks representing the Root and Core Zones. Although blocks are identified from surface drill assay results, correlation of mineralization extends over only 300 strike metres in each case. Furthermore, lithologic correlation through the centre of the iron formation is less certain than that along the western margin.

Confidence is lowest in "additional potential" blocks associated with the Esker Zone. These blocks represent information obtained through correlation up- and down-dip. Previous experience from the East Bay area indicates that correlation along dip is more difficult and less certain than correlation along strike. Consequently, no grade is assessed for these blocks and confidence is low in assessed tonnage. Additional potential tonnage is tabulated in Appendix IIIb. and summarized in Table 8.

MUSELWHITE MINERAL INVENTORY

MAY, 1988

ESYER AREA - ADDITIONAL POTENTIAL

| Category | Tonnes | Grade | | CONTAINED GRAMS | |
|------------|-----------|-------|------------|-----------------|------------|
| | | Uncut | Cut(25g/t) | Uncut | Cut(25g/t) |
| ESKER ZONE | 200867.20 | | | | |
| COPE ZONE | 0.00 | | | | |
| FOOT ZONE | 0.00 | | | | |
| TOTALS | 200867.20 | | | | |

3.7 COMPARISON OF "ESKER" AND "PQ" ZONES

Correlation of mineralization within the "Esker" Zone indicates that the Zone is approximately 55% of the height of the "PQ" Zone over similar width. Strike length is 66% that of the "PQ" Zone.

A comparison of Esker and PQ Zones was conducted to determine the tonnes per vertical and strike metres respectively. Table 3 displays these results.


The current optimistic assessment of the Esker Zone tonnage (conservative blocks & additional potential) indicates that the "Esker" Zone contains 35.1% of the tonnes identified in the "PQ" Zone. In this case a total strike length of 2280.0 metres of mineralized material would need to be identified in order to indicate a tonnage similar to the "PQ" Zone.

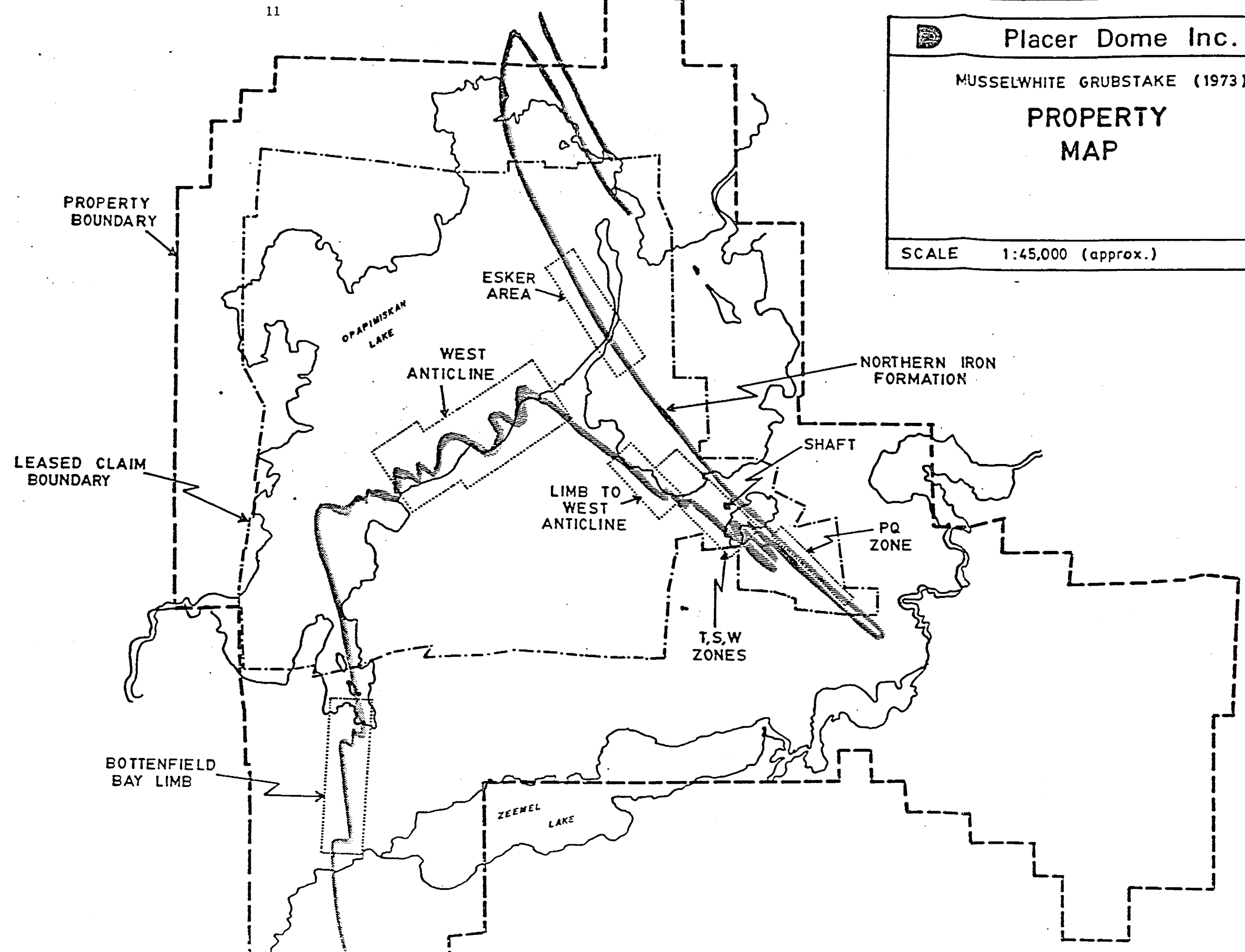
TABLE 9: COMPARISON OF "ESKER" AND "PQ" ZONES

| ZONE | CORRELATED DIMENSIONS | | STRIKE LENGTH (m) | GRADE (uncut) g/t | TONNES | AVE. TONNES PER VERTICAL METRE | AVE. TONNES PER STRIKE METRE |
|--|-----------------------|------------|-------------------|-------------------|-------------|--------------------------------|------------------------------|
| | AVE. HEIGHT (metres) | TRUE WIDTH | | | | | |
| PQ | 90 | 3.0 | 1200 | 8.30 | 1,086,047.8 | 12,067.20 | 905.04 |
| Esker Zone Conservative Blocks | 50 | 3.5 | 800 | 10.62 | 180,432.0 | 3,608.64 | 225.54 |
| Esker Zone Conservative Blocks + Additional Potential | 50 | 3.5 | 800 | — | 381,299.20 | 7,625.98 | 476.62 |

APPENDIX I
DIAMOND DRILL HOLE
COLLAR LIST



| | |
|---|--------------------|
|  Placer Dome Inc. | |
| MUSSELWHITE GRUBSTAKE (1973) | |
| PROPERTY MAP | |
| SCALE | 1:45,000 (approx.) |
| Fig. 1 | |



APPENDIX I:

DRILL HOLE LIST 1988

| Hole No. | COLLAR | | | SURVEYED COLLAR | | | SURVEYED ELEVATION | | BOH |
|-------------|--------|---------|--------|-----------------|---------|-------------|--------------------|--------|-------|
| | Line | Station | Dip | Northing | Easting | Azimuth | Casing | Ground | |
| 541 | 10+50N | 0+25W | -64.5W | 6572.57 | 7479.98 | | ICE* | | 397.0 |
| 542 | 10+20N | 0+40W | -45E | 6525.71 | 7500.54 | | 303.72 | | 142.0 |
| 543 | 11+30N | 0+40W | -45E | 6600.93 | 7435.42 | | ICE* | | 158.0 |
| 544 | 10+00N | 1+55W | -53.5W | 6447.39 | 7415.35 | | ICE* | | 305.0 |
| 545 | 10+50N | 4+45W | -50W | 6522.56 | 6964.74 | | ICE* | | 326.0 |
| 546 | 12+00N | 0+40W | -45E | 6676.21 | 7376.86 | | ICE* | | 136.0 |
| 547 | 10+50N | 3+50W | -45E | 6356.49 | 7231.79 | 48 deg 55' | ICE* | | 314.0 |
| 548 | 11+00N | 2+50W | -50E | 7976.46 | 5968.07 | 48 deg 59' | ICE* | | 260.0 |
| 549 | 14+50N | 0+90W | -45E | 6832.18 | 7168.07 | 45 deg 18' | ICE* | | 154.5 |
| 550 | 20+00N | 1+75W | -45E | not surveyed | | | ICE* | | 179.0 |
| 551 | 13+00N | 1+25W | -45E | 7075.08 | 6913.04 | | ICE* | | 149.0 |
| 552 | 36+30N | 1+70W | -45E | 6404.81 | 5701.20 | 48 deg 33' | ICE* | | 173.0 |
| 553 | 11+00N | 3+75W | -55.5E | 6378.98 | 7181.16 | 49 deg 35' | ICE* | | 362.0 |
| 554 | 21+20N | 1+60W | -45E | 7279.06 | 5639.59 | 48 deg 19' | ICE* | | 161.0 |
| 555 | 39+20N | 1+35W | -45E | 8655.40 | 5532.86 | | ICE* | | 158.0 |
| 556 | 24+30N | 1+75W | -45E | 7497.27 | 6481.62 | 49 deg 13' | ICE* | | 171.0 |
| 557 | 21+70N | 2+00W | -45E | 8009.29 | 6004.79 | | ICE* | | 215.0 |
| 558 | 11+50N | 3+75W | -60.5E | 6416.11 | 7147.03 | 48 deg 52' | ICE* | | 401.0 |
| 559 | 27+40N | 1+75W | -45E | 7723.56 | 6284.83 | 229 deg 23' | ICE* | | 173.0 |
| 560 | 21+00N | 0+70 | -65W | 5626.91 | 7465.73 | 229 deg 59' | ICE* | | 443.0 |
| 561 | 29+00N | 2+00W | -45E | 7858.21 | 6135.02 | 49 deg 21' | ICE* | | 220.0 |
| 562 | 12+10N | 3+75W | -53.5E | 6453.47 | 7115.23 | 48 deg 27' | ICE* | | 374.0 |

APPENDIX I:

DRILL HOLE LIST 1988

| Hole No. | COLLAR | | | SURVEYED COLLAR | | | SURVEYED ELEVATION | | EGH |
|----------|---------|---------|--------|-----------------|---------|-------------|--------------------|--------|-------|
| | Line | Station | Dip | Northing | Easting | Azimuth | Casing | Ground | |
| 563 | 02+00W | 2+05W | -87E | 8082.73 | 5932.47 | | ICE* | | 200.0 |
| 564 | 12+00N | 0+00 | -64.5W | 6702.69 | 7400.22 | 220 deg 03' | ICE* | | 170.0 |
| 565 | 02+00W | 2+45W | -53E | 8057.43 | 5901.75 | | ICE* | | 257.0 |
| 566 | 12+50N | 4+00W | -61.5E | 6475.54 | 7062.87 | 40 deg 56' | ICE* | | 125.0 |
| 567 | 24+00N | 2+00W | -58E | 7480.25 | 6461.82 | 49 deg 13' | ICE* | | 254.0 |
| 568 | 13+00N | 1+00W | -67.5E | 6513.33 | 7030.87 | 49 deg 10' | ICE* | | 137.0 |
| 569 | 02+00W | 3+00W | -60E | 8011.70 | 5848.29 | | ICE* | | 368.0 |
| 570 | 27+00N | 2+25W | -52E | 7593.03 | 6249.14 | 229 deg 23' | ICE* | | 257.0 |
| 571 | 29+00N | 2+25W | -55E | 7844.71 | 6119.56 | 49 deg 21' | ICE* | | 257.0 |
| 572 | 102+00S | 117+50W | -45E | 2325.04 | 2722.28 | | | | 295.0 |
| 573 | 33+00N | 2+50W | -55.5E | 8126.81 | 5833.91 | 47 deg 29' | ICE* | | 293.0 |
| 574 | 14+00N | 4+35W | -63E | 6566.99 | 6939.13 | | ICE* | | 455.0 |
| 575 | 112+00S | 107+00W | -45E | 3463.39 | 2830.49 | 67 deg 04' | | 305.0 | 281.0 |
| 576 | 03+00N | 3+00W | -56.2E | 6094.06 | 5794.01 | 49 deg 28' | ICE* | | 326.5 |
| 577 | 164+00S | 134+18W | -45E | 1755.69 | 2649.84 | 65 deg 25' | | | 221.0 |
| 578 | 15+30N | 4+60W | -63E | 6624.39 | 6853.04 | 49 deg 03' | ICE* | | 509.0 |
| 579 | 04+00N | 2+75W | -56E | 8165.47 | 5750.14 | 49 deg 30' | ICE* | | 306.5 |
| 580 | 140+00S | 126+00W | -45E | 2282.88 | 2708.47 | 67 deg 31' | | | 317.0 |
| 581 | 36+00N | 3+10W | -56E | 8314.84 | 5598.93 | 48 deg 00' | ICE* | | 319.0 |
| 582 | 35+00N | 2-75W | -61E | 8262.49 | 5688.58 | 48 deg 47' | ICE* | | 308.0 |
| 583 | 9+00N | 0+39W | -45E | 6447.57 | 7569.80 | 47 deg 30' | | 306.2 | 124.5 |

APPENDIX I:

DRILL HOLE LIST 1988

| Hus Hole No. | COLLAR | | | SURVEYED COLLAR | | | SURVEYED ELEVATION | | EOH |
|--------------------|--------|---------|------|-----------------|---------|---------|--------------------|--------|-----|
| | Line | Station | Dip | Northing | Easting | Azimuth | Casing | Ground | |
| 584 | 30+07N | 2+35W | -53E | 7920.98 | 6034.54 | | 208.8 | 248.0 | |

APPENDIX IIa.
TABULATION OF DRILL INDICATED
MINERAL INVENTORY
T-W ANTIFORMAL AREA

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DCH No. | From | To | Width (m) | Area (m2) | Length (m) | Volume (m3) | S.G. Tonnes | Grade | | Product | | | |
|--------|---------|----------------------|---------|-------|--------|-----------|-----------|------------|-------------|-------------|----------|------------|------------|-------|------------|------------|
| | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) |
| Main | 100 N | M1 | 452A | 53.20 | 56.11 | 2.30 | 48.44 | 50.00 | 2421.90 | 3.20 | 7750.00 | 5.05 | 5.05 | 1 | 39137.90 | 39137.90 |
| Main | 100 N | M2 | 450 | 81.85 | 86.10 | 4.25 | 60.83 | 50.00 | 3041.55 | 3.20 | 9733.20 | 5.78 | 5.78 | 1 | 56258.36 | 56258.36 |
| TOTALS | 100 N | Main | | | | | | | | | 17483.36 | 5.46 | 5.46 | | 95396.26 | 95396.26 |
| | 100 N | West Arm | | | | | | | | | | | | | | |
| | 100 N | Fringe | | | | | | | | | | | | | | |
| | 100 N | Isol | | | | | | | | | | | | | | |
| | 100 N | "S" | | | | | | | | | | | | | | |
| | 100 N | S Crest | | | | | | | | | | | | | | |
| | 100 N | "W" | | | | | | | | | | | | | | |
| | 100 N | Main Zone + West Arm | | | | | | | | | 17483.36 | 5.46 | 5.46 | | 95396.26 | 95396.26 |
| | 100 N | All Other Blocks | | | | | | | | | 0.00 | ERR | ERR | | 0.00 | 0.00 |
| | 100 N | SECTION TOTAL | | | | | | | | | 17483.36 | 5.46 | 5.46 | | 95396.26 | 95396.26 |
| Main | 150 N | M1 | 478 | 28.40 | 41.40 | 13.00 | 241.88 | 50.00 | 12093.75 | 3.20 | 38700.00 | 3.07 | 3.07 | 1 | 196209.00 | 196209.00 |
| Main | 150 N | M1 | 476 | 64.10 | 70.10 | 6.00 | 140.83 | 50.00 | 7041.65 | 3.20 | 22533.20 | 3.99 | 3.99 | 1 | 89207.73 | 89207.73 |
| Main | 150 N | M2 | 496 | 57.50 | 100.50 | 6.00 | 90.84 | 50.00 | 4502.10 | 3.20 | 14406.72 | 3.69 | 3.69 | 1 | 50160.80 | 50160.80 |
| TOTALS | 150 N | Main | | | | | | | | | 75640.00 | 4.49 | 4.49 | | 339277.58 | 339277.58 |
| | 150 N | West Arm | | | | | | | | | | | | | | |
| | 150 N | Fringe | | | | | | | | | | | | | | |
| | 150 N | Isol | | | | | | | | | | | | | | |
| | 150 N | "S" | | | | | | | | | | | | | | |
| | 150 N | S Crest | | | | | | | | | | | | | | |
| | 150 N | "W" | | | | | | | | | | | | | | |
| | 150 N | Main Zone + West Arm | | | | | | | | | 75640.00 | 4.49 | 4.49 | | 339277.58 | 339277.58 |
| | 150 N | All Other Blocks | | | | | | | | | 0.00 | ERR | ERR | | 0.00 | 0.00 |
| | 150 N | SECTION TOTAL | | | | | | | | | 75640.00 | 4.49 | 4.49 | | 339277.58 | 339277.58 |
| Main | 100 N | M1 | 493 | 28.65 | 52.60 | 13.35 | 257.50 | 50.00 | 12675.00 | 3.20 | 41000.00 | 5.77 | 8.95 | 1 | 402524.00 | 372368.00 |
| Main | 100 N | M2 | 491 | 70.65 | 77.63 | 6.97 | 166.67 | 50.00 | 8333.35 | 3.20 | 26566.70 | 3.19 | 9.19 | 1 | 218400.44 | 218400.44 |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 DRILL INDICATED BLOCKS

| Zone | Section | Block No | CDH No. | From | To | Width [m] | Area [m ²] | Length [m] | Volume [m ³] | S.G. | Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|--------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|----------|---------|------------------|------------|-----------|--------------------|------------|
| Main | 300 N | M3 | 494 | 108.70 | 113.10 | 4.40 | 78.75 | 50.00 | 3937.50 | 3.20 | 12600.00 | 1 | 4.86 | 4.86 | 1 | 61236.00 | 61236.00 |
| TOTALS | 300 N | Main | | | | | | | 80466.72 | | 8.48 | | 8.00 | | 682160.44 | 650024.44 | |
| | 300 N | West Arm | | | | | | | | | | | | | | | |
| | 300 N | Fringe | | | | | | | | | | | | | | | |
| | 300 N | Isol | | | | | | | | | | | | | | | |
| | 300 N | *S* | | | | | | | | | | | | | | | |
| | 300 N | S Crest | | | | | | | | | | | | | | | |
| | 300 N | *W* | | | | | | | | | | | | | | | |
| | 300 N | Main Zone + West Arm | | | | | | | 80466.72 | | 8.48 | | 8.00 | | 682160.44 | 650024.44 | |
| | 300 N | All Other Blocks | | | | | | | 0.00 | | ERR | | ERR | | 0.00 | 0.00 | |
| | 300 N | SECTION TOTAL | | | | | | | 80466.72 | | 8.48 | | 8.00 | | 682160.44 | 650024.44 | |
| Main | 350 N | M1 | 490 | 43.70 | 60.75 | 17.05 | 278.33 | 50.00 | 13916.65 | 3.20 | 44533.28 | 1 | 11.35 | 11.18 | 1 | 505452.73 | 497882.07 |
| Main | 350 N | M2 | 488 | 73.75 | 83.75 | 10.00 | 177.50 | 50.00 | 8875.00 | 3.20 | 28400.00 | 1 | 3.84 | 3.84 | 1 | 109056.00 | 109056.00 |
| Main | 350 N | M3 | 485 | 100.80 | 107.80 | 7.00 | 106.83 | 50.00 | 5041.65 | 3.20 | 16133.28 | 1 | 4.68 | 4.68 | 1 | 75503.75 | 75503.75 |
| *W* | 350 N | M10 | 504 | 63.10 | 68.60 | 5.50 | 70.00 | 50.00 | 3500.00 | 3.20 | 11200.00 | 1 | 3.98 | 3.98 | 1 | 44576.00 | 44576.00 |
| TOTALS | 350 N | Main | | | | | | | 89066.56 | | 7.75 | | 7.66 | | 690012.48 | 682441.82 | |
| | 350 N | West Arm | | | | | | | | | | | | | | | |
| | 350 N | Fringe | | | | | | | | | | | | | | | |
| | 350 N | Isol | | | | | | | | | | | | | | | |
| | 350 N | *S* | | | | | | | | | | | | | | | |
| | 350 N | S Crest | | | | | | | | | | | | | | | |
| | 350 N | *W* | | | | | | | 11200.00 | | 3.98 | | 3.98 | | 44576.00 | 44576.00 | |
| | 350 N | Main Zone + West Arm | | | | | | | 89066.56 | | 7.75 | | 7.66 | | 690012.48 | 682441.82 | |
| | 350 N | All Other Blocks | | | | | | | 11200.00 | | 3.98 | | 3.98 | | 44576.00 | 44576.00 | |
| | 350 N | SECTION TOTAL | | | | | | | 100266.56 | | 7.33 | | 7.25 | | 734588.48 | 727017.82 | |
| Main | 400 N | M1 | 487 | 34.60 | 44.10 | 9.50 | 215.42 | 46.50 | 10016.89 | 3.20 | 32054.05 | 1 | 9.38 | 8.73 | 1 | 300666.99 | 279831.85 |
| Main | 400 N | M2 | 484 | 70.90 | 79.40 | 8.50 | 554.79 | 46.50 | 25797.78 | 3.20 | 82552.90 | 1 | 5.58 | 5.46 | 1 | 460645.19 | 450738.84 |
| Main | 400 N | M3 | 483 | 102.30 | 111.70 | 9.40 | 197.71 | 46.50 | 9193.42 | 3.20 | 29418.95 | 1 | 4.93 | 4.93 | 1 | 145035.43 | 145035.43 |
| Main | 400 N | M4 | 487 | 25.70 | 29.70 | 3.00 | 69.17 | 46.50 | 3216.22 | 3.20 | 10491.90 | | 5.83 | 5.83 | | 60401.78 | 60601.78 |

MUSSELMOUTH MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Dome | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Grade | | Product | | | | |
|----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|------------|------------|-------|------------|------------|------------|
| | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) | |
| West Arm | 400 N | R1 | 463 | 86.88 | 94.80 | 7.92 | 89.58 | 46.50 | 4165.61 | 3.20 | 13329.95 | 1 | 6.92 | 6.92 | 1 | 92243.26 | 92243.26 |
| West Arm | 400 N | R2 | 460 | 160.80 | 163.20 | 2.40 | 116.46 | 46.50 | 5415.30 | 3.20 | 17320.95 | 1 | 6.17 | 6.17 | 1 | 106919.62 | 106919.62 |
| West Arm | 400 N | R3 | 495 | 192.50 | 200.20 | 7.70 | 218.96 | 46.50 | 10181.55 | 3.20 | 32580.95 | 1 | 4.01 | 4.01 | 1 | 130649.61 | 130649.61 |
| West Arm | 400 N | R4 | 501 | 208.30 | 217.40 | 9.10 | 177.50 | 46.50 | 8253.75 | 3.20 | 26412.00 | 1 | 7.22 | 7.22 | 1 | 190694.64 | 190694.64 |
| Isol | 400 N | "I" | 487 | 45.10 | 52.10 | 7.00 | 121.88 | 46.50 | 5667.19 | 3.20 | 18135.00 | 1 | 5.43 | 5.43 | 1 | 98473.05 | 98473.05 |
| "W" | 400 N | "W" | 460 | 85.85 | 89.50 | 3.65 | 59.38 | 46.50 | 2761.17 | 3.20 | 8835.74 | 1 | 6.12 | 6.12 | 1 | 54074.75 | 54074.75 |
| <hr/> | | | | | | | | | | | | | | | | | |
| TOTAL | 400 N | Main | | | | | | | 154317.80 | | | | 6.26 | 6.06 | | 966349.38 | 935607.90 |
| | 400 N | West Arm | | | | | | | 89651.85 | | | | 5.01 | 5.01 | | 520507.13 | 520507.13 |
| | 400 N | Fringe | | | | | | | | | | | | | | | |
| | 400 N | Isol | | | | | | | 18135.00 | | | | 5.43 | 5.43 | | 98473.05 | 98473.05 |
| | 400 N | "S" | | | | | | | 0.00 | | | | | | | | |
| | 400 N | S Crest | | | | | | | 0.00 | | | | | | | | |
| | 400 N | "W" | | | | | | | 8835.74 | | | | 6.12 | 6.12 | | 54074.75 | 54074.75 |
| <hr/> | | | | | | | | | | | | | | | | | |
| | 400 N | Main Dome + West Arm | | | | | | | 243969.65 | | | | 6.09 | 5.97 | | 1486856.51 | 1456115.03 |
| | 400 N | All Other Blocks | | | | | | | 26970.74 | | | | 5.66 | 5.66 | | 152547.80 | 152547.80 |
| <hr/> | | | | | | | | | | | | | | | | | |
| | 400 N | SECTION TOTAL | | | | | | | 270940.40 | | | | 6.05 | 5.94 | | 1639404.31 | 1608662.13 |
| <hr/> | | | | | | | | | | | | | | | | | |
| Main | 450 N | M1 | 481 | 45.00 | 48.00 | 3.00 | 51.25 | 46.50 | 2383.13 | 3.20 | 7626.00 | 1 | 11.08 | 11.08 | 1 | 84496.08 | 84496.08 |
| Main | 450 N | M2 | 481 | 51.00 | 59.00 | 3.00 | 92.50 | 46.50 | 4391.25 | 3.20 | 13764.00 | 1 | 2.45 | 2.45 | 1 | 33721.80 | 33721.80 |
| Main | 450 N | M3 | 471 | 78.70 | 97.20 | 16.50 | 296.68 | 46.50 | 13804.69 | 3.20 | 44175.60 | 1 | 6.89 | 6.89 | 1 | 304365.75 | 304365.75 |
| Main | 450 N | M4 | 472 | 84.00 | 104.89 | 20.40 | 398.13 | 46.50 | 18512.31 | 3.20 | 59241.00 | 1 | 8.50 | 7.76 | 1 | 503548.50 | 359710.15 |
| Main | 450 N | M5 | 462 | 126.35 | 140.70 | 14.35 | 316.67 | 46.50 | 14725.02 | 3.20 | 47120.05 | 1 | 4.09 | 4.09 | 1 | 192721.00 | 192721.00 |
| West Arm | 450 N | R1 | 462 | 113.45 | 119.15 | 6.00 | 95.63 | 46.50 | 4446.56 | 3.20 | 14229.00 | 1 | 3.35 | 3.35 | 1 | 47667.15 | 47667.15 |
| West Arm | 450 N | R2 | 458 | 159.50 | 165.70 | 6.20 | 176.14 | 46.50 | 8185.95 | 3.20 | 26195.05 | 1 | 4.39 | 4.39 | 1 | 114996.27 | 114996.27 |
| West Arm | 450 N | R3 | 486A | 221.85 | 227.85 | 6.00 | 217.71 | 46.50 | 11053.42 | 3.20 | 35370.95 | 1 | 4.70 | 4.70 | 1 | 166243.47 | 166243.47 |
| West Arm | 450 N | R4 | 456 | 240.70 | 249.35 | 2.65 | 69.38 | 46.50 | 3225.91 | 3.20 | 10323.00 | 1 | 5.39 | 5.39 | 1 | 55640.97 | 55640.97 |
| Isol | 450 N | "I" | 481 | 65.20 | 70.20 | 5.20 | 92.29 | 46.50 | 4291.53 | 3.20 | 13732.90 | 1 | 3.91 | 3.91 | 1 | 53695.64 | 53695.64 |
| Isol | 450 N | "I" | 471 | 101.20 | 110.10 | 8.90 | 141.88 | 46.50 | 6597.19 | 3.20 | 21111.00 | 1 | 5.35 | 5.35 | 1 | 112943.85 | 112943.85 |
| "S" | 450 N | "S" | 496 | 173.80 | 180.10 | 6.30 | 103.13 | 46.50 | 5453.00 | 3.20 | 17449.60 | 1 | 10.45 | 10.45 | 1 | 182348.32 | 182348.32 |
| "S" | 450 N | "S" | 505 | 212.10 | 219.40 | 7.30 | 137.50 | 46.50 | 4400.00 | 3.20 | 14080.00 | 1 | 5.00 | 5.00 | 1 | 70400.00 | 70400.00 |
| "W" | 450 N | "W" | 458 | 71.30 | 73.50 | 2.20 | 30.00 | 46.50 | 1395.00 | 3.20 | 4464.00 | 1 | 3.54 | 3.54 | 1 | 15802.56 | 15802.56 |
| <hr/> | | | | | | | | | | | | | | | | | |
| TOTAL | 450 N | Main | | | | | | | 171926.65 | | | | 6.51 | 6.25 | | 311852.13 | 1075014.79 |
| | 450 N | West Arm | | | | | | | 96118.00 | | | | 4.47 | 4.47 | | 384547.85 | 384547.85 |
| | 450 N | Fringe | | | | | | | | | | | | | | | |
| | 450 N | Isol | | | | | | | 34843.90 | | | | 4.78 | 4.78 | | 166639.49 | 166639.49 |
| | 450 N | "S" | | | | | | | 31529.60 | | | | 8.62 | 8.02 | | 252748.32 | 252748.32 |
| | 450 N | S Crest | | | | | | | | | | | | | | | |
| | 450 N | "W" | | | | | | | 4464.00 | | | | 3.54 | 3.54 | | 15802.56 | 15802.56 |

MUSSELWHITE MINERAL INVENTORY MAY, 1980
DRILL INDICATED BLOCKS

| Code | Section | Block No | DZH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | Product | | | |
|----------------------------|---------|----------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|-----------|-----------|------------|------------|------------|------------|------------|
| | | | | | | | | | | | | 1 Uncut | Cut(25g/t) | Cut(20g/t) | 1 Uncut | Cut(25g/t) | Cut(20g/t) |
| | | | | | | | | | | | | 258044.65 | 5.83 | 5.66 | 1503400.99 | 1459562.65 | |
| | | | | | | | | | | | | 70837.50 | 6.14 | 6.14 | 435190.37 | 435190.37 | |
| 450 N SECTION TOTAL | | | | | | | | | | | | 328881.55 | 5.89 | 5.76 | 1938591.36 | 1894753.02 | |
| | | | | | | | | | | | | | | | | | |
| Main | 500 N | M1 | 444 | 61.30 | 72.10 | 10.90 | 139.17 | 50.00 | 6959.30 | 3.20 | 22266.56 | 1 | 3.74 | 3.74 | 1 | 83276.93 | 83276.93 |
| Main | 500 N | M2 | 444 | 80.00 | 85.50 | 5.50 | 82.71 | 50.00 | 4135.40 | 3.20 | 13233.28 | 1 | 9.04 | 9.04 | 1 | 119628.85 | 119628.85 |
| Main | 500 N | M2 | 456 | 145.40 | 162.40 | 17.00 | | | | | | 1 | 4.03 | 4.03 | 1 | | |
| Main | 500 N | | 469 | 115.60 | 137.10 | 21.50 | | | | | | 1 | 5.93 | 5.93 | 1 | | |
| Main | 500 N | | 442 | 113.00 | 136.00 | 23.00 | | | | | | 1 | 10.35 | 9.25 | 1 | | |
| Main | 500 N | M3 | average | | | | 718.54 | 50.00 | 35927.05 | 3.20 | 114966.56 | 1 | 6.39 | 6.25 | 1 | 757629.63 | 718541.00 |
| Main | 500 N | M4 | 446 | 140.00 | 152.50 | 12.50 | 204.38 | 50.00 | 10218.75 | 3.20 | 32700.00 | 1 | 10.05 | 8.19 | 1 | 328635.00 | 267913.00 |
| West Arm | 500 N | P1 | 442 | 145.40 | 148.85 | 3.45 | 81.17 | 50.00 | 4058.35 | 3.20 | 12986.72 | 1 | 9.65 | 9.65 | 1 | 125321.85 | 125321.85 |
| West Arm | 500 N | R2 | 446 | 164.35 | 172.25 | 7.90 | | | | | | 1 | 8.77 | 8.03 | 1 | | |
| West Arm | 500 N | | 464 | 191.00 | 197.00 | 6.00 | | | | | | 1 | 12.57 | 11.42 | 1 | | |
| West Arm | 500 N | average | | | | | 202.71 | 50.00 | 10135.40 | 3.20 | 32433.28 | 1 | 9.72 | 8.88 | 1 | 315251.48 | 287926.44 |
| West Arm | 500 N | R3 | 446 | 177.00 | 180.35 | 3.35 | | | | | | 1 | 17.25 | 15.39 | 1 | | |
| West Arm | 500 N | | 464 | 182.30 | 185.38 | 3.00 | | | | | | 1 | 9.60 | 9.60 | 1 | | |
| West Arm | 500 N | average | | | | | 100.63 | 50.00 | 5031.25 | 3.20 | 16100.00 | 1 | 15.34 | 13.94 | 1 | 246933.75 | 224471.25 |
| West Arm | 500 N | R4 | 443 | 195.00 | 212.60 | 17.60 | 434.58 | 50.00 | 21729.15 | 3.20 | 69533.28 | 1 | 5.82 | 5.82 | 1 | 404683.69 | 404683.69 |
| West Arm | 500 N | R5 | 485 | 254.35 | 264.80 | 10.45 | 228.33 | 50.00 | 11416.65 | 3.20 | 36533.28 | 1 | 7.30 | 7.30 | 1 | 266692.94 | 266692.94 |
| Isol | 500 N | I1 | 442 | 93.00 | 105.00 | 7.00 | 100.63 | 50.00 | 5031.25 | 3.20 | 16100.00 | 1 | 7.23 | 7.23 | 1 | 116403.00 | 116403.00 |
| "S" | 500 N | "S1 | 469 | 182.10 | 189.00 | 6.90 | 120.42 | 50.00 | 5900.00 | 3.20 | 18880.00 | 1 | 7.89 | 7.89 | 1 | 148963.20 | 148963.20 |
| "W" | 500 N | W1 | 464 | 92.25 | 95.25 | 3.00 | 36.00 | 25.00 | 900.00 | 3.20 | 2880.00 | 1 | 3.77 | 3.77 | 1 | 10857.60 | 10857.60 |
| | | | | | | | | | | | | | | | | | |
| TOTALS | 500 N | Main | | | | | | | 183166.40 | | | | 7.04 | 6.49 | | 1289178.42 | 1189259.79 |
| | 500 N | West Arm | | | | | | | 167586.56 | | | | 8.11 | 7.81 | | 1358883.71 | 1309099.17 |
| | 500 N | Fringe | | | | | | | | | | | | | | | |
| | 500 N | Isol | | | | | | | 16100.00 | | | | 7.23 | 7.23 | | 116403.00 | 116403.00 |
| | 500 N | "S" | | | | | | | 18880.00 | | | | 7.89 | 7.89 | | 148963.20 | 148963.20 |
| | 500 N | S Crest | | | | | | | | | | | | | | | |
| | 500 N | "W" | | | | | | | 2880.00 | | | | 3.77 | 3.77 | | 10857.60 | 10857.60 |
| | | | | | | | | | | | | | | | | | |
| 500 N Main Zone + West Arm | | | | | | | | | | | | 350752.96 | 7.55 | 7.12 | 2648054.13 | 2498358.96 | |
| 500 N All Other Blocks | | | | | | | | | | | | 37860.00 | 7.30 | 7.30 | 276223.80 | 276223.80 | |
| 500 N SECTION TOTAL | | | | | | | | | | | | 388612.96 | 7.52 | 7.14 | 2924277.93 | 2774582.76 | |

MUSSELSWHITE MINERAL INVENTORY MAY, 1968
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Grade | | Product | | | | | |
|----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|-----------|------------|------------|-------|------------|------------|-----------|--|
| | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) | | |
| Main | 550 N | M1 | 455 | 118.00 | 129.00 | 11.00 | 225.63 | 50.00 | 11281.50 | 3.20 | 36100.00 | 1 | 12.77 | 11.99 | 1 | 461007.22 | 432848.59 | |
| Main | 550 N | M2 | 473 | 117.00 | 145.00 | 28.00 | 366.46 | 50.00 | 18323.00 | 3.20 | 58633.60 | 1 | 7.17 | 7.05 | 1 | 420402.91 | 413366.88 | |
| Main | 550 N | M3 | 451 | 154.00 | 174.50 | 20.50 | 222.92 | 50.00 | 11146.00 | 3.20 | 35667.20 | 1 | 4.43 | 4.43 | 1 | 158005.70 | 158005.70 | |
| West Arm | 550 N | R1 | 453 | 187.15 | 191.15 | 4.00 | | | | | | 1 | 3.81 | 3.81 | 1 | | | |
| West Arm | 550 N | | 464 | 191.00 | 197.00 | 6.00 | | | | | | 1 | 12.57 | 11.42 | 1 | | | |
| West Arm | 550 N | average | | | | | 42.29 | 50.00 | 2114.50 | 3.20 | 6766.40 | 1 | 6.00 | 5.71 | 1 | 40598.40 | 38653.06 | |
| West Arm | 550 N | R2 | 492 | 222.70 | 226.70 | 4.00 | 66.04 | 50.00 | 3302.00 | 3.20 | 10566.40 | 1 | 1.54 | 1.54 | 1 | 16272.26 | 16272.26 | |
| West Arm | 550 N | R3 | 453 | 177.25 | 181.75 | 4.50 | | | | | | 1 | 13.27 | 13.27 | 1 | | | |
| West Arm | 550 N | | 464 | 182.30 | 185.30 | 3.00 | | | | | | 1 | 9.60 | 9.60 | 1 | | | |
| West Arm | 550 N | average | | | | | 86.88 | 37.50 | 3250.00 | 3.20 | 10425.60 | 1 | 12.35 | 12.35 | 1 | 128782.22 | 128782.22 | |
| West Arm | 550 N | R4 | 492 | 229.70 | 238.70 | 9.00 | 225.63 | 37.50 | 8461.13 | 3.20 | 27075.60 | 1 | 14.97 | 14.55 | 1 | 405321.73 | 393949.98 | |
| West Arm | 550 N | R5 | 419 | 250.20 | 268.20 | 18.00 | 327.08 | 50.00 | 16354.00 | 3.20 | 52332.80 | 1 | 5.56 | 5.56 | 1 | 290970.37 | 290970.37 | |
| West Arm | 550 N | R6 | 510 | 268.00 | 280.00 | 12.00 | 157.81 | 50.00 | 7890.50 | 3.20 | 25249.60 | 1 | 7.71 | 7.71 | 1 | 194674.42 | 194674.42 | |
| Isol | 550 N | I1 | 470 | 102.30 | 111.45 | 9.15 | 157.81 | 50.00 | 7890.50 | 3.20 | 25249.60 | 1 | 11.49 | 10.53 | 1 | 290117.90 | 265879.29 | |
| "S" | 550 N | S1 | 479 | 183.50 | 191.50 | 8.00 | 128.96 | 50.00 | 6373.00 | 3.20 | 20233.60 | 1 | 8.62 | 8.23 | 1 | 174413.63 | 166522.53 | |
| "S" | 550 N | S2 | 510 | 194.30 | 202.30 | 8.00 | 133.96 | 50.00 | 6145.50 | 3.20 | 19665.60 | 1 | 7.28 | 7.28 | 1 | 143165.57 | 143165.57 | |
| "W" | 550 N | W19 | 451 | 61.80 | 69.25 | 6.45 | 96.88 | 50.00 | 4844.00 | 3.20 | 15508.80 | 1 | 6.17 | 6.17 | 1 | 64638.34 | 64638.34 | |
| "W" | 550 N | W20 | 453 | 71.50 | 83.90 | 9.50 | | | | | | 1 | 6.47 | 6.47 | 1 | | | |
| "W" | 550 N | | 464 | 92.25 | 95.25 | 3.00 | | | | | | 1 | 3.77 | 3.77 | 1 | | | |
| "W" | 550 N | average | | | | | 119.69 | 50.00 | 5984.50 | 3.20 | 19150.40 | 1 | 5.80 | 5.80 | 1 | 110976.57 | 110976.57 | |
| TOTALS | | | | | | | | | | | | | | | | | | |
| | 550 N | Main | | | | | | | | | 130401.60 | 7.97 | 7.70 | | 1039415.82 | 1004221.17 | | |
| | 550 N | West Arm | | | | | | | | | 132416.40 | 8.13 | 8.93 | | 1076679.40 | 1063302.30 | | |
| | 550 N | Pringe | | | | | | | | | | | | | | | | |
| | 550 N | Isol | | | | | | | | | 25249.60 | 11.49 | 10.53 | | 290117.90 | 265878.29 | | |
| | 550 N | "S" | | | | | | | | | 39899.20 | 7.96 | 7.76 | | 317579.20 | 309688.10 | | |
| | 550 N | S Crest | | | | | | | | | | | | | | | | |
| | 550 N | "W" | | | | | | | | | 34651.20 | 5.07 | 5.07 | | 175614.90 | 175614.90 | | |
| | 550 N | Main Zone + West Arm | | | | | | | | | 262818.00 | 8.05 | 7.87 | | 2116035.22 | 2067523.47 | | |
| | 550 N | All Other Blocks | | | | | | | | | 99600.00 | 7.85 | 7.53 | | 783312.01 | 751181.29 | | |
| | 550 N | SECTION TOTAL | | | | | | | | | 262818.00 | 8.00 | 7.77 | | 2899347.23 | 2818704.76 | | |
| Main | 600 N | M1 | 447 | 137.30 | 163.75 | 26.45 | | 50.00 | | 3.20 | | 1 | 5.50 | 5.50 | 1 | | | |
| | 600 N | | | 183.20 | 182.80 | 19.60 | | 50.00 | | 3.20 | | 1 | 7.54 | 6.62 | 1 | | | |
| | 600 N | average | | | | | 571.67 | 50.00 | 29583.30 | 3.20 | 91466.56 | 1 | 6.52 | 6.16 | 1 | 596361.97 | 563434.01 | |
| Main | 600 N | M2 | 419 | 176.50 | 193.50 | 17.00 | | 50.00 | | 3.20 | | 1 | 5.23 | 5.23 | 1 | | | |
| | 600 N | | 474 | 183.10 | 194.00 | 10.90 | | 50.00 | | 3.20 | | 1 | 3.52 | 3.52 | 1 | | | |
| | 600 N | average | | | | | 373.96 | 50.00 | 18698.00 | 3.20 | 59833.60 | 1 | 4.38 | 4.38 | 1 | 262071.17 | 262071.17 | |
| West Arm | 600 N | R1 | 474 | 153.50 | 171.90 | 8.40 | 89.13 | 50.00 | 4406.50 | 3.20 | 14109.80 | 1 | 10.89 | 9.50 | 1 | 153357.71 | 133957.60 | |
| West Arm | 600 N | R2 | 456 | 191.30 | 200.50 | 9.50 | 97.19 | 50.00 | 4859.50 | 3.20 | 15550.40 | 1 | 7.24 | 7.24 | 1 | 112584.90 | 112584.90 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Grade | | Product | | | | |
|----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|------------|------------|-------|------------|------------|--|
| | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) | |
| West Arm | 600 N | R3 | 449 | 202.15 | 213.92 | 11.77 | 176.67 | 50.00 | 8833.50 | 3.20 | 28267.20 | 6.82 | 6.82 | 1 | 192782.30 | 192782.30 | |
| West Arm | 600 N | R4 | 499 | 237.00 | 243.00 | 6.00 | | | | | | 4.06 | 4.06 | 1 | | | |
| West Arm | 600 N | | 463 | 219.00 | 230.00 | 11.00 | | | | | | 6.79 | 5.64 | 1 | | | |
| West Arm | 600 N | average | | | | | 139.17 | 50.00 | 6958.50 | 3.20 | 22267.20 | 4.74 | 4.46 | 1 | 105602.20 | 99200.38 | |
| West Arm | 600 N | R5 | 449 | 218.00 | 222.35 | 4.35 | | | | | | 10.37 | 10.37 | 1 | | | |
| West Arm | 600 N | | 463 | 210.00 | 216.00 | 6.00 | | | | | | 12.27 | 12.27 | 1 | | | |
| West Arm | 600 N | average | | | | | 112.81 | 50.00 | 5640.50 | 3.20 | 18049.60 | 10.84 | 10.84 | 1 | 195747.91 | 195747.91 | |
| West Arm | 600 N | R6 | 499 | 248.00 | 258.30 | 10.30 | 339.38 | 50.00 | 16969.00 | 3.20 | 54300.80 | 9.65 | 8.65 | 1 | 524002.72 | 469701.92 | |
| West Arm | 600 N | R7 | 502 | 296.65 | 300.15 | 3.50 | 136.67 | 50.00 | 6833.50 | 3.20 | 21867.20 | 7.65 | 7.65 | 1 | 167284.08 | 167284.08 | |
| Isol | 500 N | I1 | 447 | 117.10 | 122.60 | 5.50 | 80.00 | 50.00 | 4000.00 | 3.20 | 12800.00 | 6.21 | 5.52 | 1 | 79488.00 | 70656.00 | |
| "S" | 600 N | S1 | 502 | 196.65 | 202.10 | 5.45 | 88.33 | 50.00 | 4416.50 | 3.20 | 14132.80 | 6.14 | 6.14 | 1 | 86775.39 | 86775.39 | |
| "W" | 600 N | W24 | 454 | 78.00 | 80.80 | 2.80 | 27.50 | 50.00 | 1375.00 | 3.20 | 4400.00 | 4.99 | 4.99 | 1 | 21956.00 | 21956.00 | |
| "W" | 600 N | W25 | 474 | 61.90 | 68.70 | 6.80 | 56.25 | 50.00 | 2812.50 | 3.20 | 9000.00 | 4.84 | 4.84 | 1 | 43560.00 | 43560.00 | |
| "W" | 600 N | W26 | 456 | 89.70 | 96.40 | 6.70 | 90.00 | 50.00 | 4500.00 | 3.20 | 14400.00 | 15.23 | 14.92 | 1 | 219312.00 | 214848.00 | |
| "W" | 600 N | W2 | 463 | 109.00 | 117.50 | 8.50 | 89.00 | 25.00 | 2225.00 | 3.20 | 7120.00 | 4.03 | 4.03 | 1 | 28693.60 | 28693.60 | |
| TOTALS | | | | | | | | | | | | | | | | | |
| | 600 N | Main | | | | | | | 151300.16 | | | 5.67 | 5.46 | | 858433.14 | 825505.18 | |
| | 600 N | West Arm | | | | | | | 174403.20 | | | 8.32 | 7.86 | | 1451561.62 | 1371259.09 | |
| | 600 N | Fringe | | | | | | | | | | | | | | | |
| | 600 N | Isol | | | | | | | 12800.00 | | | 6.21 | 5.52 | | 79488.00 | 70656.00 | |
| | 600 N | "S" | | | | | | | 14132.80 | | | 6.14 | 6.14 | | 86775.39 | 86775.39 | |
| | 600 N | S Crest | | | | | | | | | | | | | | | |
| | 600 N | "W" | | | | | | | 34920.00 | | | 8.98 | 8.85 | | 313521.60 | 309057.60 | |
| | 600 N | Main Zone + West Arm | | | | | | | 325703.36 | | | 7.09 | 6.74 | | 2309994.96 | 2196764.27 | |
| | 600 N | All Other Blocks | | | | | | | 61852.80 | | | 7.76 | 7.54 | | 479784.99 | 466488.99 | |
| | 600 N | SECTION TOTAL | | | | | | | 387556.16 | | | 7.20 | 6.87 | | 2789779.95 | 2663253.26 | |
| Main | 650 N | M1 | 457 | 139.00 | 147.30 | 8.30 | 98.13 | 50.00 | 4906.25 | 3.20 | 15700.00 | 3.34 | 3.34 | 1 | 52438.00 | 52438.00 | |
| Main | 650 N | M2 | 459 | 172.40 | 200.90 | 28.50 | | | | | | 9.09 | 8.75 | 1 | | | |
| Main | 650 N | | 467 | 140.00 | 158.00 | 18.00 | | | | | | 4.08 | 4.08 | 1 | | | |
| Main | 650 N | M2 average | | | | | 611.46 | 50.00 | 30572.90 | 3.20 | 97833.28 | 6.59 | 6.41 | 1 | 644721.32 | 627111.32 | |
| Main | 650 N | M3 | 461 | 209.00 | 223.00 | 14.00 | | | | | | 3.55 | 3.55 | 1 | | | |
| Main | 650 N | | 465 | 231.00 | 240.00 | 9.00 | | | | | | 4.19 | 4.19 | 1 | | | |
| Main | 650 N | M3 average | | | | | 323.33 | 50.00 | 16416.50 | 3.20 | 52532.80 | 3.87 | 3.87 | 1 | 203301.94 | 203301.94 | |
| West Arm | 650 N | R1 | 465 | 191.00 | 200.00 | 9.00 | 138.75 | 50.00 | 6937.50 | 3.20 | 22200.00 | 10.59 | 10.59 | 1 | 235098.00 | 235098.00 | |
| West Arm | 650 N | R2 | 461 | 246.00 | 259.00 | 13.00 | | | | | | 5.35 | 5.35 | 1 | | | |
| West Arm | 650 N | | 463 | 219.00 | 230.00 | 11.00 | | | | | | 6.79 | 5.64 | 1 | | | |
| West Arm | 650 N | average | | | | | 286.67 | 50.00 | 14333.35 | 3.20 | 45866.72 | 5.71 | 5.42 | 1 | 261898.97 | 248712.29 | |
| West Arm | 650 N | P3 | 512 | 289.50 | 291.50 | 2.00 | 113.33 | 50.00 | 5666.65 | 3.20 | 18133.28 | 4.80 | 4.80 | 1 | 87039.74 | 87039.74 | |
| West Arm | 650 N | R4 | 461 | 262.00 | 267.00 | 5.00 | | | | | | 17.00 | 13.84 | 1 | | | |
| West Arm | 650 N | | 463 | 210.00 | 216.00 | 6.00 | | | | | | 12.27 | 12.27 | 1 | | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | Product | | | | |
|----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|-----------|-------|------------|------------|-------|------------|------------|--|
| | | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) | |
| West Arm | ESC N | average | | | | | 138.75 | 50.00 | 6937.50 | 3.20 | 22200.00 | 1 | 15.82 | 13.45 | 1 | 351148.50 | 298534.50 | |
| West Arm | 650 N | R5 | 512 | 296.50 | 304.50 | 8.00 | 223.96 | 50.00 | 11197.90 | 3.20 | 35833.20 | 1 | 8.10 | 8.10 | 1 | 290249.57 | 290249.57 | |
| West Arm | 650 N | P6 | 518 | 328.10 | 333.00 | 4.90 | 107.08 | 50.00 | 5354.15 | 3.20 | 17133.20 | 1 | 16.19 | 16.19 | 1 | 277387.60 | 277387.60 | |
| Isol | 650 N | T1 | 457 | 124.70 | 128.70 | 4.00 | 48.54 | 50.00 | 2427.10 | 3.20 | 7766.72 | 1 | 9.86 | 9.86 | 1 | 76579.86 | 76579.86 | |
| Isol | 650 N | T2 | 459 | 159.40 | 168.40 | 9.00 | 115.63 | 50.00 | 5781.25 | 3.20 | 18509.00 | 1 | 6.25 | 6.25 | 1 | 115625.00 | 115625.00 | |
| "S" | 650 N | S1 | 512 | 218.00 | 228.00 | 10.00 | 228.54 | 50.00 | 11427.10 | 3.20 | 36566.72 | 1 | 9.98 | 9.98 | 1 | 364935.87 | 364935.87 | |
| "S" | 650 N | S2 | 518 | 237.75 | 245.90 | 8.15 | 135.42 | 50.00 | 6770.80 | 3.20 | 21666.56 | 1 | 4.01 | 4.01 | 1 | 86882.91 | 86882.91 | |
| "W" | 650 N | W24 | 465 | 87.50 | 90.50 | 3.00 | 42.00 | 36.00 | 1512.00 | 3.20 | 4838.40 | 1 | 4.66 | 4.66 | 1 | 21579.26 | 21579.26 | |
| "W" | 650 N | W25 | 480 | 96.00 | 100.00 | 4.00 | 59.00 | 36.00 | 2124.00 | 3.20 | 6796.80 | 1 | 9.17 | 9.17 | 1 | 62326.66 | 62326.66 | |
| "W" | 625 N | W2 | 463 | 109.00 | 117.50 | 8.50 | 89.00 | 25.00 | 2225.00 | 3.20 | 7120.00 | 1 | 4.03 | 4.03 | 1 | 28693.60 | 28693.60 | |
| TOTALS | | | | | | | | | | | | | | | | | | |
| | 650 N | Main | | | | | | | | | 166066.00 | | 5.42 | 5.32 | | 900461.21 | 882851.26 | |
| | 650 N | West Arm | | | | | | | | | 161366.56 | | 9.31 | 8.91 | | 1502822.59 | 1437021.80 | |
| | 650 N | Fringe | | | | | | | | | | | | | | | | |
| | 650 N | Isol | | | | | | | | | 26266.72 | | 7.32 | 7.32 | | 192204.86 | 192204.86 | |
| | 650 N | "S" | | | | | | | | | 58233.20 | | 7.76 | 7.76 | | 451818.77 | 451818.77 | |
| | 650 N | S Crest | | | | | | | | | | | | | | | | |
| | 650 N | "W" | | | | | | | | | 18755.20 | | 6.00 | 6.00 | | 112599.52 | 112599.52 | |
| | 650 N | Main Zone + West Arm | | | | | | | | | 327432.64 | | 7.34 | 7.09 | | 2403283.84 | 2319873.17 | |
| | 650 N | All Other Blocks | | | | | | | | | 183255.20 | | 7.33 | 7.33 | | 756623.15 | 756623.15 | |
| | 650 N | SECTION TOTAL | | | | | | | | | 430687.84 | | 7.34 | 7.14 | | 3159906.99 | 3076496.32 | |
| Main | 700 N | M1 | 480 | 176.00 | 193.00 | 17.00 | 384.58 | 50.00 | 19229.15 | 3.20 | 61533.20 | 1 | 5.82 | 5.82 | 1 | 358123.69 | 358123.69 | |
| Main | 700 N | M2 | 482 | 224.50 | 234.50 | 10.00 | 267.21 | 56.00 | 13260.40 | 3.20 | 42433.20 | 1 | 4.99 | 4.99 | 1 | 211742.07 | 211742.07 | |
| West Arm | 700 N | P1 | 524 | 324.25 | 333.25 | 9.00 | 131.67 | 50.00 | 6583.35 | 3.20 | 21066.72 | 1 | 9.44 | 9.44 | 1 | 198869.84 | 198869.84 | |
| Isol | 700 N | T1 | 469 | 185.00 | 192.00 | 7.00 | 115.00 | 50.00 | 5750.00 | 3.20 | 18400.00 | 1 | 5.97 | 5.97 | 1 | 109848.00 | 109848.00 | |
| "S" | 700 N | S1 | 524 | 254.35 | 261.40 | 7.05 | 139.71 | 50.00 | 6985.50 | 3.20 | 22353.60 | 1 | 6.32 | 6.32 | 1 | 141274.75 | 141274.75 | |
| S Crest | 700 N | C1 | 469 | 177.15 | 184.00 | 6.85 | 145.83 | 50.00 | 2291.65 | 3.20 | 23333.20 | 1 | 9.76 | 9.76 | 1 | 227732.81 | 227732.81 | |
| S Crest | 700 N | C2 | 480 | 195.00 | 204.00 | 9.00 | 262.71 | 50.00 | 13135.40 | 3.20 | 42033.20 | 1 | 3.05 | 3.05 | 1 | 128201.50 | 128201.50 | |
| S Crest | 700 N | C3 | 481 | 245.50 | 249.50 | 4.00 | 125.21 | 50.00 | 6260.40 | 3.20 | 20033.20 | 1 | 6.17 | 6.17 | 1 | 123605.34 | 123605.34 | |
| TOTALS | | | | | | | | | | | | | | | | | | |
| | 700 N | Main | | | | | | | | | 103966.56 | | 5.48 | 5.48 | | 569865.76 | 569865.76 | |
| | 700 N | West Arm | | | | | | | | | 21066.72 | | 9.44 | 9.44 | | 198869.84 | 198869.84 | |
| | 700 N | Fringe | | | | | | | | | | | | | | | | |
| | 700 N | Isol | | | | | | | | | 18400.00 | | 5.97 | 5.97 | | 109848.00 | 109848.00 | |
| | 700 N | "S" | | | | | | | | | 22353.60 | | 6.32 | 6.32 | | 141274.75 | 141274.75 | |
| | 700 N | S Crest | | | | | | | | | 85399.84 | | 5.62 | 5.62 | | 479539.65 | 479539.65 | |
| | 700 N | "W" | | | | | | | | | | | | | | | | |
| | 700 N | Main Zone + West Arm | | | | | | | | | 125033.28 | | 6.15 | 6.15 | | 768735.59 | 768735.59 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1998
 DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | | Product | | |
|----------------------------|---------|----------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|-----------|-------|------------|------------|------------|------------|------------|
| | | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) |
| 700 N All Other Blocks | | | | | | | | | | | 126153.44 | 5.79 | 5.79 | 730662.41 | 730662.41 | | |
| 700 N SECTION TOTAL | | | | | | | | | | | 251186.72 | 5.97 | 5.97 | 1499398.00 | 1499398.00 | | |
| Main | 750 N | M1 | 506 | 181.47 | 195.24 | 13.77 | 291.89 | 50.00 | 14593.75 | 3.20 | 46700.00 | 1 | 7.14 | 7.14 | 1 | 333438.00 | 333438.00 |
| Main | 750 N | M2 | 508 | 236.82 | 247.00 | 10.18 | 306.04 | 50.00 | 15302.05 | 3.20 | 48966.56 | 1 | 3.06 | 3.06 | 1 | 149837.67 | 149837.67 |
| West Arm | 750 N | R1 | 525 | 292.00 | 297.00 | 5.90 | 95.83 | 50.00 | 4291.65 | 3.20 | 13733.28 | 1 | 10.01 | 10.01 | 1 | 137470.13 | 137470.13 |
| S Crest | 750 N | C1 | 505 | 198.80 | 208.00 | 9.20 | 232.50 | 50.00 | 11625.00 | 3.20 | 37200.00 | 1 | 7.03 | 6.90 | 1 | 261516.00 | 256630.00 |
| S Crest | 750 N | C2 | 503 | 253.80 | 257.80 | 4.00 | 112.71 | 50.00 | 5635.50 | 3.20 | 18033.60 | 1 | 1.80 | 1.80 | 1 | 32460.48 | 32460.48 |
| TOTALS | 750 N | Main | | | | | | | 95666.56 | | 5.05 | | 5.05 | | 483275.67 | 483275.67 | |
| | 750 N | West Arm | | | | | | | 13733.28 | | 10.01 | | 10.01 | | 137470.13 | 137470.13 | |
| | 750 N | Fringe | | | | | | | | | | | | | | | |
| | 750 N | Isol | | | | | | | | | | | | | | | |
| | 750 N | "S" | | | | | | | | | | | | | | | |
| | 750 N | S Crest | | | | | | | 55233.60 | | 5.32 | | 5.32 | | 293976.48 | 289140.48 | |
| | 750 N | "W" | | | | | | | | | | | | | | | |
| 750 N Main Zone + West Arm | | | | | | | | | | | 109399.84 | 5.67 | 5.67 | 620745.81 | 620745.81 | | |
| 750 N All Other Blocks | | | | | | | | | | | 55233.60 | 5.32 | 5.32 | 293976.48 | 289140.48 | | |
| 750 N SECTION TOTAL | | | | | | | | | | | 164633.44 | 5.56 | 5.53 | 914722.29 | 909886.29 | | |
| Main | 800 N | M1 | 513 | 205.26 | 220.50 | 15.30 | 288.13 | 50.00 | 14406.50 | 3.20 | 46100.00 | 1 | 3.32 | 3.32 | 1 | 153054.66 | 153054.66 |
| Main | 800 N | M2 | 511 | 226.30 | 239.30 | 13.00 | 190.21 | 50.00 | 9510.50 | 3.20 | 30433.60 | 1 | 7.04 | 7.04 | 1 | 214252.54 | 214252.54 |
| Main | 800 N | M3 | 528 | 219.50 | 264.50 | 5.00 | 73.54 | 50.00 | 3677.00 | 3.20 | 11766.40 | 1 | 5.83 | 5.83 | 1 | 68598.11 | 68598.11 |
| West Arm | 800 N | P1 | 528 | 280.50 | 284.50 | 4.00 | 199.38 | 50.00 | 9969.00 | 3.20 | 31900.00 | 1 | 10.45 | 10.41 | 1 | 333363.36 | 332087.33 |
| West Arm | 800 N | P2 | 537 | 352.50 | 361.50 | 9.00 | 311.04 | 50.00 | 15552.00 | 3.20 | 49766.40 | 1 | 9.08 | 9.08 | 1 | 451878.91 | 451878.91 |
| Isol | 800 N | T1 | 520 | 215.45 | 221.45 | 6.00 | 97.71 | 50.00 | 4695.50 | 3.20 | 15633.60 | 1 | 3.66 | 3.66 | 1 | 57218.98 | 57218.98 |
| "S" | 800 N | | 513 | 270.90 | 279.90 | 9.00 | | | | | | 1 | 11.62 | 10.17 | 1 | | |
| "S" | 800 N | | 527 | 252.40 | 263.10 | 10.70 | | | | | | | 2.81 | 2.38 | | | |
| | | | | | | | 147.71 | 50.00 | 7385.50 | 3.20 | 23633.60 | | 7.23 | 6.50 | | 170870.93 | 153618.40 |
| S Crest | 800 N | C1 | 510 | 212.45 | 221.45 | 9.00 | 176.46 | 50.00 | 8822.00 | 3.20 | 28233.60 | 1 | 11.86 | 11.76 | 1 | 334850.50 | 332027.14 |
| S Crest | 800 N | C2 | 513 | 225.40 | 232.80 | 7.00 | 127.71 | 50.00 | 6385.50 | 3.20 | 20433.60 | 1 | 9.21 | 9.21 | 1 | 188193.46 | 188193.46 |
| S Crest | 800 N | C3 | 528 | 245.00 | 248.00 | 3.00 | 37.08 | 50.00 | 1854.00 | 3.20 | 5932.80 | 1 | 10.17 | 10.17 | 1 | 60336.58 | 60336.58 |
| S Crest | 800 N | C4 | 511 | 252.30 | 255.30 | 3.00 | 31.25 | 50.00 | 1562.50 | 3.20 | 5000.00 | 1 | 5.71 | 5.71 | 1 | 28550.00 | 28550.00 |
| "W" | 800 N | M1 | 513 | 108.93 | 116.40 | 7.50 | 42.50 | 50.00 | 4625.00 | 3.20 | 14870.00 | 1 | 3.98 | 3.99 | 1 | 58904.00 | 58904.00 |

KUSSELUWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | Prom | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|----------|---------|----------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|------------------|------------|---------|--------------------|------------|
| Main | 900 N | M1 | 522 | 205.60 | 223.70 | 10.10 | 294.06 | 50.00 | 14703.00 | 3.20 | 47049.60 | 4.34 | 4.34 | 1 | 204195.26 | 204195.26 |
| Main | 900 N | M2 | 515 | 257.70 | 270.25 | 12.55 | 311.67 | 50.00 | 15583.50 | 3.20 | 49867.20 | 7.54 | 7.54 | 1 | 375998.69 | 375998.69 |
| West Arm | 900 N | P1 | 536 | 388.00 | 353.50 | 5.50 | 71.94 | 50.00 | 3552.00 | 3.20 | 11366.40 | 6.36 | 6.36 | 1 | 72290.30 | 72290.30 |
| "S" | 900 N | S1 | 536 | 261.00 | 265.50 | 4.50 | | | | | | 17.06 | 16.07 | | | |
| "S" | 900 N | S1 | 520 | 267.00 | 271.00 | 4.00 | | | | | | 23.52 | 15.59 | | | |
| "S" | 900 N | average | | | | | 62.50 | 50.00 | 3125.00 | 3.20 | 10000.00 | 20.29 | 15.83 | 1 | 202900.00 | 358300.00 |
| "S" | 900 N | S2 | 536 | 274.00 | 283.00 | 9.00 | 136.25 | 50.00 | 4812.50 | 3.20 | 21800.00 | 10.78 | 9.56 | 1 | 235064.00 | 208408.00 |
| S Crest | 900 N | C1 | 522 | 209.00 | 219.00 | 10.00 | 161.04 | 50.00 | 8052.00 | 3.20 | 25766.40 | 10.15 | 10.15 | 1 | 261528.96 | 261528.96 |
| S Crest | 900 N | C2 | 520 | 226.50 | 235.50 | 9.00 | 255.00 | 50.00 | 12750.00 | 3.20 | 40800.00 | 10.97 | 8.26 | 1 | 447576.00 | 337008.00 |
| "W" | 900 N | W7 | 522 | 92.25 | 94.10 | 1.85 | 24.36 | 50.00 | 1418.00 | 3.20 | 4537.60 | 4.56 | 4.56 | 1 | 20691.46 | 20691.46 |
| "W" | 900 N | W8 | 520 | 93.30 | 97.50 | 4.20 | 23.97 | 50.00 | 1198.50 | 3.20 | 3835.20 | 7.79 | 7.79 | 1 | 29876.21 | 29876.21 |
| "W" | 900 N | W9 | 515 | 146.60 | 149.60 | 3.00 | 34.35 | 50.00 | 1717.50 | 3.20 | 5496.00 | 3.77 | 3.77 | 1 | 20719.92 | 20719.92 |

| | | | | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|-----------|--|-------|-------|--|--|------------|------------|
| TOTALS | 900 N | Main | | | | | | | 96916.80 | | 5.99 | 5.99 | | | 580193.95 | 580193.95 |
| | 900 N | West Arm | | | | | | | 11366.40 | | 6.36 | 6.36 | | | 72290.30 | 72290.30 |
| | 900 N | Fringe | | | | | | | | | | | | | | |
| | 900 N | Isol | | | | | | | | | | | | | | |
| | 900 N | "S" | | | | | | | 31800.00 | | 13.77 | 11.53 | | | 437904.00 | 366708.00 |
| | 900 N | S Crest | | | | | | | 66566.40 | | 10.65 | 8.99 | | | 709104.96 | 598536.96 |
| | 900 N | "W" | | | | | | | 13868.80 | | 5.14 | 5.14 | | | 71287.58 | 71287.58 |
| | 900 N | Main Zone + West Arm | | | | | | | 108283.20 | | 6.03 | 6.03 | | | 652484.26 | 652484.26 |
| | 900 N | All Other Blocks | | | | | | | 112235.20 | | 10.85 | 9.24 | | | 1210296.54 | 1036532.54 |
| | 900 N | SECTION TOTAL | | | | | | | 220518.40 | | 8.48 | 7.66 | | | 1879780.80 | 1689016.80 |

NO DRILL INDICATED BLOCKS

| | | | | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|------|--|--|--|--|--|------|------|
| TOTALS | 950 N | Main | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | West Arm | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | Fringe | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | Isol | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | "S" | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | S Crest | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | "W" | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | Main Zone + West Arm | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | All Other Blocks | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |
| | 950 N | SECTION TOTAL | | | | | | | 0.00 | | | | | | 0.00 | 0.00 |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) | |
|----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|------------------|------------|---------|--------------------|------------|-----------|
| Main | 1000 N | M1 | 532 | 276.65 | 295.00 | 10.35 | 343.33 | 50.00 | 17166.50 | 3.20 | 54932.00 | 1 | 6.30 | 6.30 | 1 | 346076.64 | 346076.64 |
| Main | 1000 N | M2 | 512 | 312.40 | 316.80 | 4.00 | 137.71 | 50.00 | 6845.50 | 3.20 | 22033.60 | 1 | 10.00 | 10.00 | 1 | 237962.88 | 237962.88 |
| West Arm | 1000 N | R1 | 535 | 342.50 | 346.50 | 4.00 | 51.46 | 50.00 | 2573.00 | 3.20 | 8233.60 | 1 | 3.60 | 3.60 | 1 | 30299.65 | 30299.65 |
| Isol | 1000 N | I1 | 535 | 355.50 | 361.10 | 5.60 | 90.63 | 50.00 | 4531.50 | 3.20 | 14500.00 | 1 | 0.56 | 0.55 | 1 | 124126.85 | 123981.84 |
| S Crest | 1000 N | C1 | 532 | 261.30 | 265.30 | 4.00 | 64.58 | 50.00 | 3229.00 | 3.20 | 10332.00 | 1 | 5.49 | 5.49 | 1 | 56727.07 | 56727.07 |
| | | | | | | | | | | | | | | | | | |
| TOTALS | 1000 N | Main | | | | | | | 76566.40 | | 7.59 | 7.59 | | | 584039.52 | 584039.52 | |
| | 1000 N | West Arm | | | | | | | 8233.60 | | 3.60 | 3.60 | | | 30299.65 | 30299.65 | |
| | 1000 N | Fringe | | | | | | | | | | | | | | | |
| | 1000 N | Isol | | | | | | | 14500.00 | | 0.56 | 0.55 | | | 124126.85 | 123981.84 | |
| | 1000 N | "S" | | | | | | | | | | | | | | | |
| | 1000 N | S Crest | | | | | | | 10332.00 | | 5.49 | 5.49 | | | 56727.07 | 56727.07 | |
| | 1000 N | "W" | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 1000 N | Main Zone + West Arm | | | | | | | 85200.00 | | 7.21 | 7.21 | | | 614339.17 | 614339.17 | |
| | 1000 N | All Other Blocks | | | | | | | 24833.60 | | 7.20 | 7.20 | | | 180853.92 | 180708.91 | |
| | | | | | | | | | | | | | | | | | |
| | 1000 N | SECTION TOTAL | | | | | | | 110033.60 | | 7.23 | 7.23 | | | 795193.09 | 795048.08 | |
| | | | | | | | | | | | | | | | | | |
| Main | 1050 N | M1 | 541 | 318.00 | 322.65 | 4.65 | 82.50 | 50.00 | 4125.00 | 3.20 | 13200.00 | 1 | 11.36 | 11.36 | 1 | 149952.00 | 149952.00 |
| West Arm | 1050 N | R1 | 541 | 346.00 | 354.80 | 8.80 | 98.14 | 50.00 | 4922.00 | 3.20 | 15750.40 | 1 | 6.93 | 6.93 | 1 | 109150.27 | 109150.27 |
| Isol | 1050 N | I1 | 541 | 361.75 | 367.95 | 6.20 | 102.06 | 50.00 | 5103.00 | 3.20 | 16329.60 | 1 | 0.85 | 0.85 | 1 | 144516.96 | 144516.96 |
| S Crest | 1050 N | C1 | 547 | 260.75 | 269.30 | 8.55 | 106.46 | 50.00 | 5321.00 | 3.20 | 17033.60 | 1 | 10.76 | 15.92 | 1 | 319550.34 | 271174.91 |
| | | | | | | | | | | | | | | | | | |
| TOTALS | 1050 N | Main | | | | | | | 13200.00 | | 11.36 | 11.36 | | | 149952.00 | 149952.00 | |
| | 1050 N | West Arm | | | | | | | 15750.40 | | 6.93 | 6.93 | | | 109150.27 | 109150.27 | |
| | 1050 N | Fringe | | | | | | | | | | | | | | | |
| | 1050 N | Isol | | | | | | | 16329.60 | | 0.85 | 0.85 | | | 144516.96 | 144516.96 | |
| | 1050 N | "S" | | | | | | | | | | | | | | | |
| | 1050 N | S Crest | | | | | | | 17033.60 | | 10.76 | 15.92 | | | 319550.34 | 271174.91 | |
| | 1050 N | "W" | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | |
| | 1050 N | Main Zone + West Arm | | | | | | | 28950.40 | | 8.95 | 8.95 | | | 259102.27 | 259102.27 | |
| | 1050 N | All Other Blocks | | | | | | | 33363.20 | | 13.91 | 12.46 | | | 164067.30 | 415691.87 | |
| | | | | | | | | | | | | | | | | | |
| | 1050 N | SECTION TOTAL | | | | | | | 62313.60 | | 11.61 | 10.83 | | | 723169.57 | 674794.14 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1983
 DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDM No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | I | Grade | Product | | | |
|-----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|------------|------------|-----------|------------|------------|
| | | | | | | | | | | | I Uncut | Cut(25g/t) | Cut(20g/t) | I Uncut | Cut(25g/t) | Cut(20g/t) |
| Main | 1100 N | M1 | 553 | 299.55 | 321.25 | 21.70 | 420.13 | 50.00 | 21406.50 | 3.20 | 68500.00 | 7.53 | 7.53 | 515811.02 | 515811.02 | |
| Main | 1100 N | M2 | 560 | 380.00 | 383.00 | 3.00 | 104.17 | 50.00 | 5200.50 | 3.20 | 16667.20 | 5.26 | 5.26 | 87669.47 | 87669.47 | |
| West Arm | 1100 N | R1 | 560 | 393.55 | 397.60 | 4.05 | 17.08 | 50.00 | 2554.00 | 3.20 | 7532.00 | 6.54 | 6.54 | 49264.51 | 49264.51 | |
| Isol | 1100 N | I1 | 560 | 412.00 | 415.85 | 3.85 | 74.38 | 50.00 | 3719.00 | 3.20 | 11900.00 | 11.01 | 11.01 | 131027.81 | 131027.81 | |
| TOTALS | 1100 N | Main | | | | | | | 85168.00 | | 7.09 | 7.09 | 603480.50 | 603480.50 | | |
| | 1100 N | West Arm | | | | | | | 7532.00 | | 6.54 | 6.54 | 49264.51 | 49264.51 | | |
| | 1100 N | Fringe | | | | | | | | | | | | | | |
| | 1100 N | Isol | | | | | | | 11900.00 | | 11.01 | 11.01 | 131027.81 | 131027.81 | | |
| | 1100 N | "S" | | | | | | | | | | | | | | |
| | 1100 N | S Crest | | | | | | | | | | | | | | |
| | 1100 N | "W" | | | | | | | | | | | | | | |
| | 1100 N | Main Zone + West Arm | | | | | | | 92700.00 | | 7.04 | 7.04 | 652745.01 | 652745.01 | | |
| | 1100 N | All Other Blocks | | | | | | | 11900.00 | | 11.01 | 11.01 | 131027.81 | 131027.81 | | |
| | 1100 N | SECTION TOTAL | | | | | | | 104601.60 | | 7.49 | 7.49 | 783772.82 | 783772.82 | | |
| Main Zone | 1150 N | M1 | 558 | 298.90 | 319.90 | 21.00 | 254.69 | 50.00 | 12734.50 | 3.20 | 40750.40 | 7.74 | 7.70 | 315408.10 | 313778.08 | |
| TOTALS | 1150 N | Main | | | | | | | 40750.40 | | 7.74 | 7.70 | 315408.10 | 313778.08 | | |
| | 1150 N | West Arm | | | | | | | | | | | | | | |
| | 1150 N | Fringe | | | | | | | | | | | | | | |
| | 1150 N | Isol | | | | | | | | | | | | | | |
| | 1150 N | "S" | | | | | | | | | | | | | | |
| | 1150 N | S Crest | | | | | | | | | | | | | | |
| | 1150 N | "W" | | | | | | | | | | | | | | |
| | 1150 N | Main Zone + West Arm | | | | | | | 40750.40 | | 7.74 | 7.70 | 315408.10 | 313778.08 | | |
| | 1150 N | All Other Blocks | | | | | | | 0.00 | | | | 0.00 | 0.00 | | |
| | 1150 N | SECTION TOTAL | | | | | | | 40750.40 | | 7.74 | 7.70 | 315408.10 | 313778.08 | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 DATA INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) Cut(20g/t) | 1 Uncut | Product Cut(25g/t) Cut(20g/t) | |
|-----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|-------------|----------|--------------------------------|---------|----------------------------------|-----------|
| Main Zone | 1200 N | M1 | 564 | 421.60 | 425.85 | 4.25 | 43.12 | 50.00 | 2156.00 | 3.20 | 6899.20 | 5.14 | 5.14 | 35461.89 | 35461.89 |
| West Arm | 1200 N | R1 | 564 | 428.80 | 435.00 | 6.20 | 70.62 | 50.00 | 3531.00 | 3.20 | 11299.20 | 4.16 | 4.16 | 47004.67 | 47004.67 |
| "S" | 1200 N | S1 | 562 | 342.05 | 349.00 | 6.95 | 131.04 | 50.00 | 6552.00 | 3.20 | 20966.40 | 6.25 | 6.25 | 172972.80 | 172972.80 |
| "S" | 1200 N | S2 | 564 | 362.70 | 367.30 | 4.60 | 89.79 | 50.00 | 4489.50 | 3.20 | 14366.40 | 4.87 | 4.87 | 69964.37 | 69964.37 |
| S Crest | 1200 N | C1 | 562 | 305.00 | 316.00 | 11.00 | 127.08 | 50.00 | 6354.00 | 3.20 | 20332.00 | 4.67 | 4.67 | 94954.18 | 94954.18 |
| TOTALS | 1200 N | Main | | | | | | | | | 6899.20 | 5.14 | 5.14 | 35461.89 | 35461.89 |
| | 1200 N | West Arm | | | | | | | | | 11299.20 | 4.16 | 4.16 | 47004.67 | 47004.67 |
| | 1200 N | Fringe | | | | | | | | | | | | | |
| | 1200 N | Isol | | | | | | | | | | | | | |
| | 1200 N | "S" | | | | | | | | | 35332.00 | 6.00 | 6.00 | 242937.17 | 242937.17 |
| | 1200 N | S Crest | | | | | | | | | 20332.00 | 4.67 | 4.67 | 94954.18 | 94954.18 |
| | 1200 N | "W" | | | | | | | | | | | | | |
| | 1200 N | Main Zone + West Arm | | | | | | | | | 18198.40 | 4.53 | 4.53 | 82466.56 | 82466.56 |
| | 1200 N | All Other Blocks | | | | | | | | | 55665.60 | 6.07 | 6.07 | 337891.34 | 337891.34 |
| | 1200 N | SECTION TOTAL | | | | | | | | | 73864.00 | 5.69 | 5.69 | 420357.90 | 420357.90 |
| "S" | 1250 N | S1 | 566 | 371.45 | 377.50 | 6.05 | 77.92 | 50.00 | 3896.00 | 3.20 | 12467.20 | 5.89 | 5.89 | 73431.81 | 73431.81 |
| S Crest | 1250 N | C1 | 566 | 345.75 | 349.25 | 3.50 | 60.00 | 50.00 | 3000.00 | 3.20 | 9600.00 | 6.27 | 6.27 | 60192.00 | 60192.00 |
| TOTALS | 1250 N | Main | | | | | | | | | | | | | |
| | 1250 N | West Arm | | | | | | | | | | | | | |
| | 1250 N | Fringe | | | | | | | | | | | | | |
| | 1250 N | Isol | | | | | | | | | | | | | |
| | 1250 N | "S" | | | | | | | | | 12467.20 | 5.89 | 5.89 | 73431.81 | 73431.81 |
| | 1250 N | S Crest | | | | | | | | | 9600.00 | 6.27 | 6.27 | 60192.00 | 60192.00 |
| | 1250 N | "W" | | | | | | | | | | | | | |
| | 1250 N | Main Zone + West Arm | | | | | | | | | 22067.20 | 6.06 | 6.06 | 133623.81 | 133623.81 |
| | 1250 N | All Other Blocks | | | | | | | | | | | | | |
| | 1250 N | SECTION TOTAL | | | | | | | | | 22067.20 | 6.06 | 6.06 | 133623.81 | 133623.81 |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Block | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade 1 Uncut | Grade Cut(25g/t) | Grade Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Product Cut(20g/t) |
|-----------|---------|----------------------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|----------|------------------|---------------------|---------------------|-----------|-----------------------|-----------------------|
| Main Zone | 1300 N | M1 | 568 | 363.80 | 377.70 | 13.90 | 246.33 | 50.00 | 12316.50 | 3.20 | 39412.80 | 4.75 | 4.75 | | 187210.80 | 187210.80 | |
| Isol | 1300 N | I1 | 568 | 392.70 | 403.20 | 10.50 | 182.00 | 50.00 | 9100.00 | 3.20 | 29120.00 | 5.26 | 5.26 | | 153171.20 | 153171.20 | |
| TOTALS | 1300 N | Main | | | | | | | | | 39412.80 | 4.75 | 4.75 | | 187210.80 | 187210.80 | |
| | 1300 N | West Arm | | | | | | | | | | | | | | | |
| | 1300 N | Fringe | | | | | | | | | | | | | | | |
| | 1300 N | Isol | | | | | | | | | 29120.00 | 5.26 | 5.26 | | 153171.20 | 153171.20 | |
| | 1300 N | "S" | | | | | | | | | | | | | | | |
| | 1300 N | S Crest | | | | | | | | | | | | | | | |
| | 1300 N | "W" | | | | | | | | | | | | | | | |
| | 1300 N | Main Zone + West Arm | | | | | | | | | 39412.80 | 4.75 | 4.75 | | 187210.80 | 187210.80 | |
| | 1300 N | All Other Blocks | | | | | | | | | 29120.00 | 5.26 | 5.26 | | 153171.20 | 153171.20 | |
| | 1300 N | SECTION TOTALS | | | | | | | | | 68532.80 | 4.97 | 4.97 | | 340382.00 | 340382.00 | |
| "S" | 1400 N | S1 | 574 | 411.20 | 422.20 | 11.00 | 128.50 | 50.00 | 6425.00 | 3.20 | 20560.00 | 6.17 | 6.17 | | 126855.20 | 126855.20 | |
| S Crest | 1400 N | C1 | 574 | 376.10 | 389.70 | 13.60 | 180.63 | 50.00 | 9031.25 | 3.20 | 28900.00 | 7.97 | 7.97 | | 230333.00 | 230333.00 | |
| Main Zone | 1400 N | M1 | 574 | 364.50 | 371.90 | 7.30 | 97.00 | 50.00 | 4854.00 | 3.20 | 15532.80 | 5.33 | 5.33 | | 82789.62 | 82789.62 | |
| TOTALS | 1400 N | Main | | | | | | | | | 15532.80 | 5.33 | 5.33 | | 82789.62 | 82789.62 | |
| | 1400 N | West Arm | | | | | | | | | | | | | | | |
| | 1400 N | Fringe | | | | | | | | | | | | | | | |
| | 1400 N | Isol | | | | | | | | | | | | | | | |
| | 1400 N | "S" | | | | | | | | | 20560.00 | 6.17 | 6.17 | | 126855.20 | 126855.20 | |
| | 1400 N | S Crest | | | | | | | | | 28900.00 | 7.97 | 7.97 | | 230333.00 | 230333.00 | |
| | 1400 N | "W" | | | | | | | | | | | | | | | |
| | 1400 N | Main Zone + West Arm | | | | | | | | | 15532.80 | 5.33 | 5.33 | | 82789.62 | 82789.62 | |
| | 1400 N | All Other Blocks | | | | | | | | | 49460.00 | 7.22 | 7.22 | | 357188.20 | 357188.20 | |
| | 1400 N | SECTION TOTALS | | | | | | | | | 64992.80 | 6.77 | 6.77 | | 439978.02 | 439978.02 | |
| Isol | 1500 N | I1 | 578 | 487.00 | 492.00 | 5.00 | 65.42 | 50.00 | 3271.00 | 3.20 | 10467.20 | 8.03 | 8.03 | | 84051.62 | 84051.62 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
DRILL INDICATED BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | | Product | |
|---------|-----------------------------|----------|---------|--------|--------|-----------|------------------------|------------|--------------------------|------|----------|-------|------------|------------|-----------|------------|
| | | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) |
| "s" | 1500 N | S1 | 578 | 427.70 | 431.70 | 4.00 | 77.08 | 50.00 | 3851.00 | 3.20 | 12332.80 | 8.90 | 8.90 | | 109761.92 | 109761.92 |
| S Crest | 1500 N | C1 | 578 | 388.45 | 400.15 | 11.70 | 163.96 | 50.00 | 8198.00 | 3.20 | 26233.60 | 10.56 | 10.09 | | 277026.82 | 264697.02 |
| ----- | | | | | | | | | | | | | | | | |
| TOTALS | 1500 N | Main | | | | | | | | | | | | | | |
| | 1500 N | West Arm | | | | | | | | | | | | | | |
| | 1500 N | Fringe | | | | | | | | | | | | | | |
| | 1500 N | Isol | | | | | | | 10467.20 | | | 8.03 | 8.03 | | 84051.62 | 84051.62 |
| | 1500 N | "s" | | | | | | | 12332.80 | | | 8.90 | 8.90 | | 109761.92 | 109761.92 |
| | 1500 N | S Crest | | | | | | | 26233.60 | | | 10.56 | 10.09 | | 277026.82 | 264697.02 |
| | 1500 N | "w" | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | | |
| | 1500 N Main Zone + West Arm | | | | | | | | | | 0.00 | | | | 0.00 | 0.00 |
| | 1500 N All Other Blocks | | | | | | | | | | 49033.60 | 9.60 | 9.35 | | 470840.35 | 458510.56 |
| ----- | | | | | | | | | | | | | | | | |
| | 1500 N SECTION TOTAL | | | | | | | | | | 49033.60 | 9.60 | 9.35 | | 470840.35 | 458510.56 |

APPENDIX IIb.
TABULATION OF GEOLOGICALLY INFERRED
MINERAL INVENTORY
T-W ANTIFORMAL AREA

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | l | Grade | Product | | | |
|--------------------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|-------------|-------|------------|------------|-------|------------|------------|
| | | | | | | | | | | | Uncut | Cut(25g/t) | Cut(20g/t) | Uncut | Cut(25g/t) | Cut(20g/t) |
| NO BLOCKS ON 200 N | | | | | | | | | | | | | | | | |
| TOTALS | 200 N | Main | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 200 N | West Arm | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 200 N | Fringe | | | | | | | | | | 0.00 | | | | |
| | 200 N | Isol | | | | | | | | | | 0.00 | | | | |
| | 200 N | "S" | | | | | | | | | | 0.00 | | | | |
| | 200 N | S Crest | | | | | | | | | | 0.00 | | | | |
| | 200 N | "V" | | | | | | | | | | 0.00 | | | | |
| | 200 N | Main Zone + West Arm | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 200 N | All Other Blocks | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 200 N | SECTION TOTAL | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |

NO BLOCKS ON 250 N

| | | | | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|--|--|--|------|--|------|--|------|
| TOTALS | 250 N | Main | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 250 N | West Arm | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 250 N | Fringe | | | | | | | | | | 0.00 | | | | |
| | 250 N | Isol | | | | | | | | | | 0.00 | | | | |
| | 250 N | "S" | | | | | | | | | | 0.00 | | | | |
| | 250 N | S Crest | | | | | | | | | | 0.00 | | | | |
| | 250 N | "V" | | | | | | | | | | 0.00 | | | | |
| | 250 N | Main Zone + West Arm | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 250 N | All Other Blocks | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 250 N | SECTION TOTAL | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |

NO BLOCKS ON 300 N

| | | | | | | | | | | | | | | | | |
|--------|-------|----------|--|--|--|--|--|--|--|--|--|------|--|------|--|------|
| TOTALS | 300 N | Main | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 300 N | West Arm | | | | | | | | | | 0.00 | | 0.00 | | 0.00 |
| | 300 N | Fringe | | | | | | | | | | 0.00 | | | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|------|---------|----------|---------|----------------------|----|-----------|------------------------|------------|--------------------------|-------------|---------|------------------|------------|---------|--------------------|------------|
| | | 300 N | | Isol | | | | | | | 0.00 | | | | | |
| | | 300 N | | "S" | | | | | | | 0.00 | | | | | |
| | | 300 N | | S Crest | | | | | | | 0.00 | | | | | |
| | | 300 N | | "W" | | | | | | | 0.00 | | | | | |
| | | 300 N | | Main Zone + West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | | 300 N | | All Other Blocks | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | | 300 N | | SECTION TOTAL | | | | | | | 0.00 | | | 0.00 | 0.00 | |

NO BLOCKS ON 350 N

| TOTALS | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|--------|---------|----------|---------|----------------------|----|-----------|------------------------|------------|--------------------------|-------------|---------|------------------|------------|---------|--------------------|------------|
| | 350 N | | | Main | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 350 N | | | West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 350 N | | | Fringe | | | | | | | 0.00 | | | | | |
| | 350 N | | | Isol | | | | | | | 0.00 | | | | | |
| | 350 N | | | "S" | | | | | | | 0.00 | | | | | |
| | 350 N | | | S Crest | | | | | | | 0.00 | | | | | |
| | 350 N | | | "W" | | | | | | | 0.00 | | | | | |
| | 350 N | | | Main Zone + West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 350 N | | | All Other Blocks | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 350 N | | | SECTION TOTAL | | | | | | | 0.00 | | | 0.00 | 0.00 | |

NO BLOCKS ON 400 N

| TOTALS | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|--------|---------|----------|---------|----------------------|----|-----------|------------------------|------------|--------------------------|-------------|---------|------------------|------------|---------|--------------------|------------|
| | 400 N | | | Main | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 400 N | | | West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 400 N | | | Fringe | | | | | | | 0.00 | | | | | |
| | 400 N | | | Isol | | | | | | | 0.00 | | | | | |
| | 400 N | | | "S" | | | | | | | 0.00 | | | | | |
| | 400 N | | | S Crest | | | | | | | 0.00 | | | | | |
| | 400 N | | | "W" | | | | | | | 0.00 | | | | | |
| | 400 N | | | Main Zone + West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1968
 ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | Prom | To Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Grade | | Product | |
|------|---------|------------------|---------|------|--------------|------------------------|------------|--------------------------|-------------|---------|-----------------------|---------|-----------------------|
| | | | | | | | | | | l Uncut | Cut(25g/t) Cut(20g/t) | l Uncut | Cut(25g/t) Cut(20g/t) |
| | 400 N | All Other Blocks | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 400 N | SECTION TOTAL | | | | | | | 0.00 | | | 0.00 | 0.00 |

NO BLOCKS ON 450 N

| | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|------|--|--|------|------|
| TOTALS | 450 N | Main | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 450 N | West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 450 N | Fringe | | | | | | | 0.00 | | | | |
| | 450 N | Isol | | | | | | | 0.00 | | | | |
| | 450 N | *S* | | | | | | | 0.00 | | | | |
| | 450 N | S Crest | | | | | | | 0.00 | | | | |
| | 450 N | *W* | | | | | | | 0.00 | | | | |
| | 450 N | Main Zone + West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 450 N | All Other Blocks | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 450 N | SECTION TOTAL | | | | | | | 0.00 | | | 0.00 | 0.00 |

NO BLOCKS ON 500 N

| | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|------|--|--|------|------|
| TOTALS | 500 N | Main | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 500 N | West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 500 N | Fringe | | | | | | | 0.00 | | | | |
| | 500 N | Isol | | | | | | | 0.00 | | | | |
| | 500 N | *S* | | | | | | | 0.00 | | | | |
| | 500 N | S Crest | | | | | | | 0.00 | | | | |
| | 500 N | *W* | | | | | | | 0.00 | | | | |
| | 500 N | Main Zone + West Arm | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 500 N | All Other Blocks | | | | | | | 0.00 | | | 0.00 | 0.00 |
| | 500 N | SECTION TOTAL | | | | | | | 0.00 | | | 0.00 | 0.00 |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | | Product | | | |
|----------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|----------|--------|---------|------------|------------|-----------|------------|------------|--|
| | | | | | | | | | | | | 1 Uncut | Cut(25g/t) | Cut(20g/t) | 1 Uncut | Cut(25g/t) | Cut(20g/t) | |
| Main | 550 N | MP1 | | | | 133.75 | 50.00 | 6687.50 | 3.20 | 21400.00 | 6.37 | 6.21 | | 136318.00 | 132894.00 | | | |
| West Arm | 550 N | RP1 | | | | 61.46 | 50.00 | 3073.00 | 3.20 | 9833.60 | 7.92 | 7.69 | | 77882.11 | 75620.38 | | | |
| West Arm | 550 N | RP2 | | | | 105.92 | 50.00 | 5146.00 | 3.20 | 16467.20 | 7.92 | 7.69 | | 130420.22 | 126622.77 | | | |
| TOTALS | | | | | | | | | | | | | | | | | | |
| | 550 N | Main | | | | | | | | 21400.00 | 6.37 | 6.21 | | 136318.00 | 132894.00 | | | |
| | 550 N | West Arm | | | | | | | | 26300.00 | 7.92 | 7.69 | | 208102.34 | 202253.15 | | | |
| | 550 N | Fringe | | | | | | | | 0.00 | | | | | | | | |
| | 550 N | Isol | | | | | | | | 0.00 | | | | | | | | |
| | 550 N | 'S' | | | | | | | | 0.00 | | | | | | | | |
| | 550 N | S Crest | | | | | | | | 0.00 | | | | | | | | |
| | 550 N | 'W' | | | | | | | | 0.00 | | | | | | | | |
| | 550 N | Main Zone + West Arm | | | | | | | | 47700.00 | 7.22 | 7.03 | | 344620.34 | 335147.15 | | | |
| | 550 N | All Other Blocks | | | | | | | | 0.00 | | | | 0.00 | 0.00 | | | |
| | 550 N | SECTION TOTAL | | | | | | | | 47700.00 | 7.22 | 7.03 | | 344620.34 | 335147.15 | | | |

NO BLOCKS ON 600 N

| | | | | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|--|------|--|--|--|------|------|--|
| TOTALS | | | | | | | | | | | | | | | | |
| | 600 N | Main | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |
| | 600 N | West Arm | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |
| | 600 N | Fringe | | | | | | | | 0.00 | | | | | | |
| | 600 N | Isol | | | | | | | | 0.00 | | | | | | |
| | 600 N | 'S' | | | | | | | | 0.00 | | | | | | |
| | 600 N | S Crest | | | | | | | | 0.00 | | | | | | |
| | 600 N | 'W' | | | | | | | | 0.00 | | | | | | |
| | 600 N | Main Zone + West Arm | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |
| | 600 N | All Other Blocks | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |
| | 600 N | SECTION TOTAL | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/L) |
|--------------------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|-------------|---------|------------------|------------|---------|--------------------|------------|
| NO BLOCKS ON 650 N | | | | | | | | | | | | | | | | |
| TOTALS | 650 N | Main | | | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 650 N | West Arm | | | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 650 N | Fringe | | | | | | | | | 0.00 | | | | | |
| | 650 N | Isol | | | | | | | | | 0.00 | | | | | |
| | 650 N | "S" | | | | | | | | | 0.00 | | | | | |
| | 650 N | S Crest | | | | | | | | | 0.00 | | | | | |
| | 650 N | "W" | | | | | | | | | 0.00 | | | | | |
| | 650 N | Main Zone + West Arm | | | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 650 N | All Other Blocks | | | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| | 650 N | SECTION TOTAL | | | | | | | | | 0.00 | | | 0.00 | 0.00 | |
| Main | 700 N | RP1 | | | | 44.37 | 50.00 | 2208.35 | 3.20 | 7066.72 | 1 | 6.37 | 6.21 | | 45015.01 | 43884.33 |
| West Arm | 700 N | RP1 | | | | 193.33 | 50.00 | 9666.65 | 3.20 | 30933.28 | 1 | 7.92 | 7.69 | | 244931.58 | 237876.92 |
| West Arm | 700 N | RP2 | | | | 78.54 | 50.00 | 3927.00 | 3.20 | 12566.40 | 1 | 7.92 | 7.69 | | 99525.89 | 96625.62 |
| TOTALS | 700 N | Main | | | | | | | | 7066.72 | 1 | 6.37 | 6.21 | | 45015.01 | 43884.33 |
| | 700 N | West Arm | | | | | | | | 43499.68 | 1 | 7.92 | 7.69 | | 344517.47 | 334512.54 |
| | 700 N | Fringe | | | | | | | | 0.00 | | | | | | |
| | 700 N | Isol | | | | | | | | 0.00 | | | | | | |
| | 700 N | "S" | | | | | | | | 0.00 | | | | | | |
| | 700 N | S Crest | | | | | | | | 0.00 | | | | | | |
| | 700 N | "W" | | | | | | | | 0.00 | | | | | | |
| | 700 N | Main Zone + West Arm | | | | | | | | 50566.40 | 1 | 7.70 | 7.48 | | 369532.47 | 378396.87 |
| | 700 N | All Other Blocks | | | | | | | | 0.00 | | | | | 0.00 | 0.00 |
| | 700 N | SECTION TOTAL | | | | | | | | 50566.40 | 1 | 7.70 | 7.48 | | 369532.47 | 378396.87 |
| West Arm | 750 N | RP1 | | | | 69.58 | 50.00 | 3479.15 | 3.20 | 11133.28 | 1 | 7.92 | 7.69 | | 88175.58 | 85614.92 |
| West Arm | 750 N | RP2 | | | | 250.42 | 50.00 | 12520.80 | 3.20 | 40066.56 | 1 | 7.92 | 7.69 | | 317327.16 | 308111.85 |
| S Crest | 750 N | CP1 | | | | 143.13 | 50.00 | 7156.25 | 3.20 | 22900.00 | 1 | 8.55 | 8.10 | | 195795.00 | 185490.00 |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Done | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | I Uncut | Grade Cut(25g/t) | Cut(20g/t) | I Uncut | Product Cut(25g/t) | Cut(20g/t) |
|----------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|------|----------|---------|------------------|------------|-----------|--------------------|------------|
| ----- | | | | | | | | | | | | | | | | | |
| TOTALS | 750 N | Main | | | | | | | | | 0.00 | | | | | | |
| | 750 N | West Arm | | | | | | | | | 51199.04 | 7.92 | 7.69 | | 405502.73 | 393726.77 | |
| | 750 N | Fringe | | | | | | | | | 0.00 | | | | | | |
| | 750 N | Isol | | | | | | | | | 0.00 | | | | | | |
| | 750 N | *S* | | | | | | | | | 0.00 | | | | | | |
| | 750 N | S Crest | | | | | | | | | 22900.00 | 8.55 | 8.10 | | 195795.00 | 185490.00 | |
| | 750 N | *V* | | | | | | | | | 0.00 | | | | | | |
| ----- | | | | | | | | | | | | | | | | | |
| | 750 N | Main Zone + West Arm | | | | | | | | | 51199.04 | 7.92 | 7.69 | | 405502.73 | 393726.77 | |
| | 750 N | All Other Blocks | | | | | | | | | 22900.00 | 8.55 | 8.10 | | 195795.00 | 185490.00 | |
| ----- | | | | | | | | | | | | | | | | | |
| | 750 N | SECTION TOTAL | | | | | | | | | 74099.04 | 8.11 | 7.82 | | 601297.73 | 579216.77 | |
| ----- | | | | | | | | | | | | | | | | | |
| S Crest | 800 N | | | | | 82.08 | | 50.00 | 4104.15 | 3.20 | 13133.28 | | 8.55 | 8.10 | | 112289.54 | 106379.57 |
| ----- | | | | | | | | | | | | | | | | | |
| TOTALS | 800 N | Main | | | | | | | | | 0.00 | | | | | | |
| | 800 N | West Arm | | | | | | | | | 0.00 | | | | | | |
| | 800 N | Fringe | | | | | | | | | 0.00 | | | | | | |
| | 800 N | Isol | | | | | | | | | 0.00 | | | | | | |
| | 800 N | *S* | | | | | | | | | 0.00 | | | | | | |
| | 800 N | S Crest | | | | | | | | | 13133.28 | | | | 112289.54 | 106379.57 | |
| | 800 N | *V* | | | | | | | | | 0.00 | | | | | | |
| ----- | | | | | | | | | | | | | | | | | |
| | 800 N | Main Zone + West Arm | | | | | | | | | 0.00 | | | | 0.00 | 0.00 | |
| | 800 N | All Other Blocks | | | | | | | | | 13133.28 | 8.55 | 8.10 | | 112289.54 | 106379.57 | |
| ----- | | | | | | | | | | | | | | | | | |
| | 800 N | SECTION TOTAL | | | | | | | | | 13133.28 | 8.55 | 8.10 | | 112289.54 | 106379.57 | |
| ----- | | | | | | | | | | | | | | | | | |
| Main | 850 N | RP1 | | | | 202.50 | | 50.00 | 10125.00 | 3.20 | 32400.00 | 1 | 6.37 | 6.21 | | 206388.00 | 201204.00 |
| Main | 850 N | RP2 | | | | 69.69 | | 50.00 | 3484.50 | 3.20 | 11150.40 | 1 | 6.37 | 6.21 | | 71028.05 | 69243.98 |
| West Arm | 850 N | RP1 | | | | 27.71 | | 50.00 | 1385.50 | 3.20 | 4433.60 | 1 | 7.92 | 7.69 | | 35114.11 | 34094.38 |
| West Arm | 850 N | RP2 | | | | 206.67 | | 50.00 | 10332.30 | 3.20 | 33066.56 | | 7.92 | 7.69 | | 261887.16 | 254281.85 |
| ----- | | | | | | | | | | | | | | | | | |
| TOTALS | 850 N | Main | | | | | | | | | 43550.40 | | 6.37 | 6.21 | | 277416.05 | 270447.98 |
| | 850 N | West Arm | | | | | | | | | 37500.16 | | 7.92 | 7.69 | | 297001.27 | 288376.23 |

MUSKELWITZ MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | Prom | To Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|------|---------|----------------------|---------|------|--------------|------------------------|------------|--------------------------|------|--------|----------|------------------|------------|---------|--------------------|------------|
| | 850 N | Fringe | | | | | | | | | 0.00 | | | | | |
| | 850 N | Isol | | | | | | | | | 0.00 | | | | | |
| | 850 N | "S" | | | | | | | | | 0.00 | | | | | |
| | 850 N | S Crest | | | | | | | | | 0.00 | | | | | |
| | 850 N | "W" | | | | | | | | | 0.00 | | | | | |
| | 850 N | Main Zone + West Arm | | | | | | | | | 81050.56 | 7.09 | 6.89 | | 574417.32 | 558824.21 |
| | 850 N | All Other Blocks | | | | | | | | | 0.00 | | | | 0.00 | 0.00 |
| | 850 N | SECTION TOTAL | | | | | | | | | 81050.56 | 7.09 | 6.89 | | 574417.32 | 558824.21 |

| | | | | | | | | | | | | | | | |
|----------|-------|-----|--|--|--------|-------|---------|------|----------|---|------|------|--|-----------|-----------|
| Main | 900 N | RP1 | | | 35.42 | 50.00 | 1771.00 | 3.20 | 5667.20 | 1 | 6.37 | 6.21 | | 36100.06 | 35193.31 |
| West Arm | 900 N | RP1 | | | 97.00 | 50.00 | 4854.00 | 3.20 | 15532.80 | 1 | 7.92 | 7.69 | | 123019.78 | 119447.23 |
| West Arm | 900 N | RP2 | | | 11.46 | 50.00 | 572.90 | 3.20 | 1833.28 | 1 | 7.92 | 7.69 | | 14519.58 | 14097.92 |
| S Crest | 900 N | CP1 | | | 24.22 | 50.00 | 1211.00 | 3.20 | 3875.20 | 1 | 8.55 | 8.10 | | 33132.96 | 31389.12 |
| S Crest | 900 N | CP2 | | | 171.25 | 50.00 | 8562.50 | 3.20 | 27400.00 | 1 | 8.55 | 8.10 | | 234270.00 | 221940.00 |

| | | | | | | | | | | | | | | | |
|--------|-------|----------------------|--|--|--|--|--|--|----------|--|------|------|--|-----------|-----------|
| TOTALS | 900 N | Main | | | | | | | 5667.20 | | 6.37 | 6.21 | | 36100.06 | 35193.31 |
| | 900 N | West Arm | | | | | | | 17366.08 | | 7.92 | 7.69 | | 137539.35 | 133545.16 |
| | 900 N | Fringe | | | | | | | 0.00 | | | | | | |
| | 900 N | Isol | | | | | | | 0.00 | | | | | | |
| | 900 N | "S" | | | | | | | 0.00 | | | | | | |
| | 900 N | S Crest | | | | | | | 31275.20 | | 8.55 | 8.10 | | 267402.96 | 253329.12 |
| | 900 N | "W" | | | | | | | 0.00 | | | | | | |
| | 900 N | Main Zone + West Arm | | | | | | | 23033.28 | | 7.54 | 7.33 | | 173639.42 | 168738.47 |
| | 900 N | All Other Blocks | | | | | | | 31275.20 | | 8.55 | 8.10 | | 267402.96 | 253329.12 |
| | 900 N | SECTION TOTAL | | | | | | | 54308.48 | | 8.12 | 7.77 | | 441042.38 | 422067.59 |

ENTIRE SECTION 950 N IS INFERRED

| | | | | | | | | | | | | | | | |
|--------|-------|----------|--|--|--|--|--|--|-----------|--|------|------|--|-----------|-----------|
| TOTALS | 950 N | Main | | | | | | | 104410.00 | | 6.37 | 6.21 | | 665091.70 | 648386.10 |
| | 950 N | West Arm | | | | | | | 20916.00 | | 7.92 | 7.69 | | | |
| | 950 N | Fringe | | | | | | | 0.00 | | | | | | |
| | 950 N | Isol | | | | | | | 0.00 | | | | | | |

MUSSELMOUTH MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | Prom | To Width (m) | Area (a2) | Length (m) | Volume (m3) | S.G. | Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|-----------|---------|----------------------|---------|------|--------------|-----------|------------|-------------|------|----------|---------|------------------|------------|------------|--------------------|------------|
| | 950 N | "S" | | | | | | 0.00 | | | | | | | | |
| | 950 N | S Crest | | | | | | 66462.00 | | | 0.55 | 0.10 | | 568250.10 | 538342.20 | |
| | 950 N | "W" | | | | | | 0.00 | | | | | | | | |
| | 950 N | Main Zone + West Arm | | | | | | 127310.40 | | | 6.89 | 6.71 | | 877168.66 | 854252.78 | |
| | 950 N | All Other Blocks | | | | | | 66462.00 | | | 0.90 | 0.53 | | 568250.10 | 538342.20 | |
| | 950 N | SECTION TOTAL | | | | | | 193772.40 | | | 7.46 | 7.19 | | 1445418.76 | 1392594.98 | |
| Main | 1000 N | MP1 | | | 170.94 | | 50.00 | 8547.00 | 3.20 | 27350.40 | 1 | 6.37 | 6.21 | | 174222.05 | 169845.98 |
| Main | 1000 N | MP2 | | | 12.00 | | 50.00 | 600.00 | 3.20 | 1920.00 | 1 | 6.37 | 6.21 | | 12230.40 | 11923.20 |
| West Arm | 1000 N | RP1 | | | 24.38 | | 50.00 | 1219.00 | 3.20 | 3900.00 | 1 | 7.92 | 7.69 | | 30894.34 | 29997.15 |
| West Arm | 1000 N | RP2 | | | 6.04 | | 50.00 | 302.00 | 3.20 | 966.40 | 1 | 7.92 | 7.69 | | 7653.89 | 7431.62 |
| S Crest | 1000 N | CP1 | | | 129.69 | | 50.00 | 6484.50 | 3.20 | 20750.40 | 1 | 0.55 | 0.10 | | 177415.92 | 168078.24 |
| TOTALS | 1000 N | Main | | | | | | 29270.40 | | | 6.37 | 6.21 | | 186452.45 | 181769.18 | |
| | 1000 N | West Arm | | | | | | 4867.20 | | | 7.92 | 7.69 | | 38548.22 | 37428.77 | |
| | 1000 N | Fringe | | | | | | 0.00 | | | | | | | | |
| | 1000 N | Isol | | | | | | 0.00 | | | | | | | | |
| | 1000 N | "S" | | | | | | 0.00 | | | | | | | | |
| | 1000 N | S Crest | | | | | | 20750.40 | | | 0.55 | 0.10 | | 177415.92 | 168078.24 | |
| | 1000 N | "W" | | | | | | 0.00 | | | | | | | | |
| | 1000 N | Main Zone + West Arm | | | | | | 34137.60 | | | 6.59 | 6.42 | | 225000.67 | 219197.95 | |
| | 1000 N | All Other Blocks | | | | | | 20750.40 | | | 0.55 | 0.10 | | 177415.92 | 168078.24 | |
| | 1000 N | SECTION TOTAL | | | | | | 54888.00 | | | 7.33 | 7.06 | | 402416.59 | 387276.19 | |
| Main Zone | 1050 N | MP1 | | | 471.45 | | 50.00 | 23572.50 | 3.20 | 75432.00 | | 6.37 | 6.21 | | 480501.84 | 468432.72 |
| Main Zone | 1050 N | MP2 | | | 60.63 | | 50.00 | 3031.25 | 3.20 | 9700.00 | | 6.37 | 6.21 | | 61789.00 | 60237.00 |
| West Arm | 1050 N | RP1 | | | 53.75 | | 50.00 | 2687.50 | 3.20 | 8600.00 | | 7.92 | 7.69 | | 68112.00 | 66134.00 |
| West Arm | 1050 N | RP2 | | | 51.46 | | 50.00 | 2573.00 | 3.20 | 8233.60 | | 7.92 | 7.69 | | 65210.11 | 63316.38 |
| S Crest | 1050 N | CP1 | | | 1.58 | | 50.00 | 229.00 | 3.20 | 732.00 | | 0.55 | 0.10 | | 6265.44 | 5935.68 |
| S Crest | 1050 N | CP2 | | | 50.63 | | 50.00 | 2531.25 | 3.20 | 8100.00 | | 0.55 | 0.10 | | 69255.00 | 65610.00 |
| TOTALS | 1050 N | Main | | | | | | 85132.60 | | | 6.37 | 6.21 | | 542290.84 | 528669.72 | |

MUSSELMITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|-----------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|----------|--------|---------|------------------|------------|-----------|--------------------|------------|
| | 1050 N | West Arm | | | | | | | 15833.60 | | | 7.92 | 7.69 | | 133322.11 | 129450.38 | |
| | 1050 N | Fringe | | | | | | | 0.00 | | | | | | | | |
| | 1050 N | Isol | | | | | | | 0.00 | | | | | | | | |
| | 1050 N | "S" | | | | | | | 0.00 | | | | | | | | |
| | 1050 N | S Crest | | | | | | | 8832.00 | | | 8.55 | 8.10 | | 75520.44 | 71545.68 | |
| | 1050 N | "W" | | | | | | | 0.00 | | | | | | | | |
| | 1050 N | Main Zone + West Arm | | | | | | | 101965.60 | | | 6.63 | 6.45 | | 675612.95 | 658120.10 | |
| | 1050 N | All Other Blocks | | | | | | | 8832.00 | | | 8.55 | 8.10 | | 75520.44 | 71545.68 | |
| | 1050 N | SECTION TOTAL | | | | | | | 110798.40 | | | 6.78 | 6.59 | | 751133.39 | 729665.78 | |
| Main Zone | 1100 N | MP1 | | | | 217.29 | 50.00 | 10864.50 | 3.20 | 34766.40 | | 6.37 | 6.21 | | 221461.97 | 215899.34 | |
| West Arm | 1100 N | PP1 | | | | 140.42 | 50.00 | 7021.00 | 3.20 | 22467.20 | | 7.92 | 7.69 | | 177940.22 | 172772.77 | |
| S Crest | 1100 N | CP1 | | | | 128.96 | 50.00 | 6447.80 | 3.20 | 20633.28 | | 8.55 | 8.10 | | 176414.54 | 167129.57 | |
| TOTALS | 1100 N | Main | | | | | | | 34766.40 | | | 6.37 | 6.21 | | 221461.97 | 215899.34 | |
| | 1100 N | West Arm | | | | | | | 22467.20 | | | 7.92 | 7.69 | | 177940.22 | 172772.77 | |
| | 1100 N | Fringe | | | | | | | 0.00 | | | | | | | | |
| | 1100 N | Isol | | | | | | | 0.00 | | | | | | | | |
| | 1100 N | "S" | | | | | | | 0.00 | | | | | | | | |
| | 1100 N | S Crest | | | | | | | 20633.28 | | | 8.55 | 8.10 | | 176414.54 | 167129.57 | |
| | 1100 N | "W" | | | | | | | 0.00 | | | | | | | | |
| | 1100 N | Main Zone + West Arm | | | | | | | 57233.60 | | | 6.98 | 6.79 | | 399402.19 | 388672.11 | |
| | 1100 N | All Other Blocks | | | | | | | 20633.28 | | | 8.55 | 8.10 | | 176414.54 | 167129.57 | |
| | 1100 N | SECTION TOTAL | | | | | | | 77866.88 | | | 7.39 | 7.14 | | 575816.74 | 555801.68 | |
| Main Zone | 1150 N | MP1 | | | | 45.83 | 50.00 | 2291.50 | 3.20 | 7332.00 | | 6.37 | 6.21 | | 46709.94 | 45536.69 | |
| Main Zone | 1150 N | MP2 | | | | 457.50 | 50.00 | 22875.00 | 3.20 | 73200.00 | | 6.37 | 6.21 | | 466284.00 | 454572.00 | |
| West Arm | 1150 N | PP1 | | | | 188.12 | 50.00 | 9406.00 | 3.20 | 30099.20 | | 7.92 | 7.69 | | 230385.66 | 231462.85 | |
| S Crest | 1150 N | CP1 | | | | 113.95 | 50.00 | 5697.50 | 3.20 | 18232.00 | | 8.55 | 8.10 | | 155883.60 | 147679.20 | |
| TOTALS | 1150 N | Main | | | | | | | 80532.00 | | | 6.37 | 6.21 | | 512993.94 | 500108.69 | |
| | 1150 N | West Arm | | | | | | | 30099.20 | | | 7.92 | 7.69 | | 230385.66 | 231462.85 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | 1 Uncut | Grade Cut(25g/t) | Cut(20g/t) | 1 Uncut | Product Cut(25g/t) | Cut(20g/t) |
|-----------|---------|----------|---------|----------------------|----|-----------|------------------------|------------|--------------------------|-------------|-----------|------------------|------------|-----------|--------------------|------------|
| | | 1150 N | | Fringe | | | | | | | 0.00 | | | | | |
| | | 1150 N | | Isol | | | | | | | 0.00 | | | | | |
| | | 1150 N | | *S* | | | | | | | 0.00 | | | | | |
| | | 1150 N | | S Crest | | | | | | 18232.00 | 8.55 | 8.10 | | 155883.60 | 147679.20 | |
| | | 1150 N | | *W* | | | | | | | 0.00 | | | | | |
| | | 1150 N | | Main Zone + West Arm | | | | | | 118632.00 | 6.79 | 6.61 | | 751379.60 | 731571.54 | |
| | | 1150 N | | All Other Blocks | | | | | | 18232.00 | | | | 155883.60 | 147679.20 | |
| | | 1150 N | | SECTION TOTAL | | | | | | 128864.00 | 7.04 | 6.82 | | 907263.20 | 879250.74 | |
| Main Zone | 1200 N | | | MP1 | | 752.19 | | 50.00 | 37609.50 | 3.20 | 120350.40 | 6.37 | 6.21 | | 766632.05 | 747375.98 |
| West Arm | 1200 N | | | MP1 | | 114.06 | | 50.00 | 5703.00 | 3.20 | 18249.60 | 7.92 | 7.69 | | 144536.83 | 140339.42 |
| S Crest | 1200 N | | | CP1 | | 27.19 | | 50.00 | 1359.50 | 3.20 | 4350.40 | 8.55 | 8.10 | | 37195.92 | 35238.24 |
| S Crest | 1200 N | | | CP2 | | 50.00 | | 50.00 | 2500.00 | 3.20 | 8000.00 | 8.55 | 8.10 | | 68400.00 | 64800.00 |
| TOTALS | 1200 N | | | Main | | | | | | | 120350.40 | 6.37 | 6.21 | | 766632.05 | 747375.98 |
| | 1200 N | | | West Arm | | | | | | | 18249.60 | 7.92 | 7.69 | | 144536.83 | 140339.42 |
| | 1200 N | | | Fringe | | | | | | | 0.00 | | | | | |
| | 1200 N | | | Isol | | | | | | | 0.00 | | | | | |
| | 1200 N | | | *S* | | | | | | | 0.00 | | | | | |
| | 1200 N | | | S Crest | | | | | | | 12350.40 | 8.55 | 8.10 | | 105595.92 | 100038.24 |
| | 1200 N | | | *W* | | | | | | | 0.00 | | | | | |
| | 1200 N | | | Main Zone + West Arm | | | | | | | 138600.00 | 6.57 | 6.40 | | 911168.88 | 887715.41 |
| | 1200 N | | | All Other Blocks | | | | | | | 12350.40 | 8.55 | 8.10 | | 105595.92 | 100038.24 |
| | 1200 N | | | SECTION TOTAL | | | | | | | 150950.40 | 6.74 | 6.54 | | 1016764.80 | 987753.65 |
| Main Zone | 1250 N | | | MP1 | | 657.71 | | 50.00 | 32885.40 | 3.20 | 105233.28 | 6.37 | 6.21 | | 670335.99 | 653498.67 |
| S Crest | 1250 N | | | CP1 | | 130.83 | | 50.00 | 6541.50 | 3.20 | 20932.80 | 8.55 | 8.10 | | 178975.44 | 169555.68 |
| TOTALS | 1250 N | | | Main | | | | | | | 105233.28 | 6.37 | 6.21 | | 670335.99 | 653498.67 |
| | 1250 N | | | West Arm | | | | | | | 0.00 | | | | | |
| | 1250 N | | | Fringe | | | | | | | 0.00 | | | | | |
| | 1250 N | | | Isol | | | | | | | 0.00 | | | | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1968
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Uncut | Grade Cut(25g/t) | Cut(20g/t) | Uncut | Product Cut(25g/t) | Cut(20g/t) |
|-----------|---------|----------------------|----------------------|------|--------------|------------------------|------------|--------------------------|-------------|-----------|------------------|------------|-----------|--------------------|------------|
| | | 1250 N | "S" | | | | | | | 0.00 | | | | | |
| | | 1250 N | S Crest | | | | | | | 20932.80 | 0.55 | 0.10 | 178975.44 | 169555.68 | |
| | | 1250 N | "W" | | | | | | | 0.00 | | | | | |
| | | 1250 N | Main Zone + West Arm | | | | | | | 105233.20 | 6.37 | 6.21 | 670335.99 | 653498.67 | |
| | | 1250 N | All Other Blocks | | | | | | | 20932.80 | 0.55 | 0.10 | 178975.44 | 169555.68 | |
| | | 1250 N | SECTION TOTAL | | | | | | | 126166.00 | 6.73 | 6.52 | 849311.43 | 823054.35 | |
| Main Zone | 1300 N | MP1 | | | 202.29 | 50.00 | 10114.55 | 3.20 | 32366.56 | 6.37 | 6.21 | | 206174.99 | 200996.34 | |
| Main Zone | 1300 N | MP2 | | | 153.96 | 50.00 | 7690.00 | 3.20 | 24633.60 | 6.37 | 6.21 | | 156916.03 | 152974.66 | |
| S Crest | 1300 N | CP1 | | | 193.13 | 50.00 | 9656.50 | 3.20 | 30900.80 | 0.55 | 0.10 | | 264201.84 | 250296.48 | |
| TOTALS | 1300 N | Main | | | | | | | | 57000.16 | 6.37 | 6.21 | 363091.02 | 353970.99 | |
| | 1300 N | West Arm | | | | | | | | 0.00 | | | | | |
| | 1300 N | Fringe | | | | | | | | 0.00 | | | | | |
| | 1300 N | Isol | | | | | | | | 0.00 | | | | | |
| | 1300 N | "S" | | | | | | | | 0.00 | | | | | |
| | 1300 N | S Crest | | | | | | | | 30900.80 | 0.55 | 0.10 | 264201.84 | 250296.48 | |
| | 1300 N | "W" | | | | | | | | 0.00 | | | | | |
| | 1300 N | Main Zone + West Arm | | | | | | | | 57000.16 | 6.37 | 6.21 | 363091.02 | 353970.99 | |
| | 1300 N | All Other Blocks | | | | | | | | 30900.80 | 0.55 | 0.10 | 264201.84 | 250296.48 | |
| | 1300 N | SECTION TOTAL | | | | | | | | 87900.96 | 7.14 | 6.87 | 627292.86 | 604267.47 | |
| S Crest | 1400 N | CP1 | | | 109.17 | 50.00 | 9450.50 | 3.20 | 30267.20 | 0.55 | 0.10 | | 258784.56 | 245164.32 | |
| TOTALS | 1400 N | Main | | | | | | | | 0.00 | | | | | |
| | 1400 N | West Arm | | | | | | | | 0.00 | | | | | |
| | 1400 N | Fringe | | | | | | | | 0.00 | | | | | |
| | 1400 N | Isol | | | | | | | | 0.00 | | | | | |
| | 1400 N | "S" | | | | | | | | 0.00 | | | | | |
| | 1400 N | S Crest | | | | | | | | 30267.20 | 0.55 | 0.10 | 258784.56 | 245164.32 | |
| | 1400 N | "W" | | | | | | | | 0.00 | | | | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
ADDITIONAL POTENTIAL BLOCKS

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade | | | Product | |
|---------|---------|----------------------|---------|------|----|-----------|------------------------|------------|--------------------------|----------|----------|---------|------------|------------|-----------|------------|
| | | | | | | | | | | | | 1 Uncut | Cut(25g/t) | Cut(20g/t) | 1 Uncut | Cut(25g/t) |
| | 1400 N | Main Zone + West Arm | | | | | | | | | 0.00 | | | | 0.00 | 0.00 |
| | 1400 N | All Other Blocks | | | | | | | | | 30267.20 | 0.55 | 0.10 | | 258784.56 | 245164.32 |
| | 1400 N | SECTION TOTAL | | | | | | | | | 30267.20 | 0.55 | 0.10 | | 258784.56 | 245164.32 |
| S Crest | 1500 N | CP1 | | | | 63.96 | 50.00 | 3198.00 | 3.20 | 10233.60 | | 0.55 | 0.10 | | 87497.20 | 82892.16 |
| S Crest | 1500 N | CP2 | | | | 179.17 | 50.00 | 8958.50 | 3.20 | 28667.20 | | 0.55 | 0.10 | | 245104.56 | 232204.32 |
| TOTALS | 1500 N | Main | | | | | | | | | 0.00 | | | | | |
| | 1500 N | West Arm | | | | | | | | | 0.00 | | | | | |
| | 1500 N | Fringe | | | | | | | | | 0.00 | | | | | |
| | 1500 N | Isol | | | | | | | | | 0.00 | | | | | |
| | 1500 N | "S" | | | | | | | | | 0.00 | | | | | |
| | 1500 N | S Crest | | | | | | | | | 38900.00 | 0.55 | 0.10 | | 332601.84 | 315096.48 |
| | 1500 N | "W" | | | | | | | | | 0.00 | | | | | |
| | 1500 N | Main Zone + West Arm | | | | | | | | | 0.00 | | | | 0.00 | 0.00 |
| | 1500 N | All Other Blocks | | | | | | | | | 38900.00 | 0.55 | 0.10 | | 332601.84 | 315096.48 |
| | 1500 N | SECTION TOTAL | | | | | | | | | 38900.00 | 0.55 | 0.10 | | 332601.84 | 315096.48 |

APPENDIX IIIa.

TABULATED CONSERVATIVE MINERAL INVENTORY

ESKER AREA - EAST BAY

MUSSELWHITE MINERAL INVENTORY MAY, 1980
 ESKER AREA - CONSERVATIVE CASE

| Section | Tonnes | ESKER ZONE ***** | | Tonnes | CORE ZONE ***** | | Tonnes | ROOT ZONE ***** | | Tonnes | TOTALS ***** | | Contained grams | | |
|-----------------|--------|---------------------|---------------------|--------|--------------------|---------------------|--------|--------------------|---------------------|-----------|-----------------|---------------------|-----------------|------------|------------|
| | | Uncut | Grade Cut(25g/t) | | Uncut | Grade Cut(25g/t) | | Uncut | Grade Cut(25g/t) | | Uncut | Grade Cut(25g/t) | Uncut | Cut(25g/t) | |
| 25+00 | N | 25600.00 | 5.29 | 5.29 | | | | | | 25600.00 | 5.29 | 5.29 | 135424.00 | 135424.00 | |
| 30+00 | N | 22665.60 | 17.00 | 9.66 | | | | | | 22665.60 | 17.00 | 9.66 | 385315.20 | 218949.70 | |
| 31+00 | N | 27798.40 | 7.15 | 7.15 | | | | | | 27798.40 | 7.15 | 7.15 | 190758.56 | 190758.56 | |
| 32+00 | N | 24000.00 | 9.62 | 9.62 | 11699.20 | 8.14 | 8.14 | | | 35699.20 | 9.13 | 9.13 | 326111.49 | 326111.49 | |
| 33+00 | N | 29132.50 | 14.02 | 13.77 | 22700.80 | 4.90 | 4.90 | 17200.00 | 4.82 | 4.82 | 69033.60 | 8.73 | 8.62 | 802579.78 | 595298.58 |
| 34+00 | N | 18134.40 | 8.83 | 8.93 | 10967.20 | 7.67 | 7.67 | 57100.80 | 4.15 | 4.15 | 86102.40 | 5.58 | 5.58 | 480446.50 | 480446.50 |
| 35+00 | N | 16809.00 | 15.70 | 15.70 | | | | 51100.80 | 4.70 | 4.70 | 67900.80 | 7.42 | 7.42 | 503933.76 | 503933.76 |
| 36+00 | N | 16300.50 | 8.17 | 8.17 | | | | | | 16300.80 | 8.17 | 8.17 | 133177.54 | 133177.54 | |
| TOTAL: | | 130432.00 | 10.62 | 9.66 | 45267.20 | 6.40 | 6.40 | 125401.60 | 4.47 | 4.47 | 351100.80 | 7.88 | 7.38 | 2765746.92 | 2592098.11 |
| CHECK ACCESSION | | | | | | | | | | 351100.80 | | | | | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 ESKER AREA CONSERVATIVE CASE

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. Tonnes | Grade | Product | | | | |
|---------------|---------|----------|---------|------|--------|-----------|------------------------|------------|--------------------------|-------------|-------|------------|-----------|-----------|-----------|-----------|
| | | | | | | | | | | | Uncut | Cut(25g/t) | | | | |
| SECTION TOTAL | | | | | | | | | | 35689.20 | 9.13 | 9.13 | 326111.48 | 326111.49 | | |
| ESK | 33+00 | N | EC1 | 573 | 173.50 | 178.50 | 5.00 | 91.04 | 100.00 | 9104.00 | 3.20 | 29132.00 | 14.02 | 13.77 | 408441.00 | 401158.66 |
| COPE | 33+00 | N | CC1 | 573 | 205.95 | 210.45 | 4.50 | 78.94 | 100.00 | 7894.00 | 3.20 | 22700.00 | 4.90 | 4.90 | 111233.92 | 111233.92 |
| ROGT | 33+00 | N | RC1 | 573 | 182.00 | 185.00 | 3.00 | 53.75 | 100.00 | 5375.00 | 3.20 | 17200.00 | 4.02 | 4.02 | 82904.00 | 82904.00 |
| TOTALS | 33+00 | N | ESK | | | | | | | 29132.00 | | 14.02 | 13.77 | 408441.00 | 401158.66 | |
| | 33+00 | N | COPE | | | | | | | 22700.00 | | 4.90 | 4.90 | 111233.92 | 111233.92 | |
| | 33+00 | N | ROGT | | | | | | | 17200.00 | | 4.02 | 4.02 | 82904.00 | 82904.00 | |
| SECTION TOTAL | | | | | | | | | | 69033.60 | 8.73 | 8.62 | 602578.78 | 595296.58 | | |
| ESK | 34+00 | N | EC1 | 579 | 197.00 | 200.20 | 3.20 | 56.67 | 100.00 | 5667.00 | 3.20 | 18134.40 | 8.83 | 8.83 | 160126.75 | 160126.75 |
| COPE | 34+00 | N | CC1 | 579 | 237.00 | 239.00 | 2.00 | 33.96 | 100.00 | 3396.00 | 3.20 | 10867.20 | 7.67 | 7.67 | 83351.42 | 83351.42 |
| ROGT | 34+00 | N | RC1 | 579 | 204.00 | 214.00 | 10.00 | 178.44 | 100.00 | 17844.00 | 3.20 | 57100.00 | 4.15 | 4.15 | 236968.32 | 236968.32 |
| TOTALS | 34+00 | N | ESK | | | | | | | 18134.40 | | 8.83 | 8.83 | 160126.75 | 160126.75 | |
| | 34+00 | N | COPE | | | | | | | 10867.20 | | 7.67 | 7.67 | 83351.42 | 83351.42 | |
| | 34+00 | N | ROGT | | | | | | | 57100.00 | | 4.15 | 4.15 | 236968.32 | 236968.32 | |
| SECTION TOTAL | | | | | | | | | | 86102.40 | 5.58 | 5.58 | 480446.50 | 480446.50 | | |
| ESK | 35+00 | N | EC1 | 582 | 201.00 | 204.00 | 3.00 | 52.50 | 100.00 | 5250.00 | 3.20 | 16800.00 | 15.70 | 15.70 | 263760.00 | 263760.00 |
| ROGT | 35+00 | N | RC1 | 582 | 213.00 | 222.65 | 9.65 | 159.69 | 100.00 | 15969.00 | 3.20 | 51100.00 | 4.70 | 4.70 | 240173.76 | 240173.76 |
| TOTALS | 35+00 | N | ESK | | | | | | | 16800.00 | | 15.70 | 15.70 | 263760.00 | 263760.00 | |
| | 35+00 | N | COPE | | | | | | | | | | | | | |
| | 35+00 | N | ROGT | | | | | | | 51100.00 | | 4.70 | 4.70 | 240173.76 | 240173.76 | |
| SECTION TOTAL | | | | | | | | | | 67900.00 | 7.42 | 7.42 | 503933.76 | 503933.76 | | |

Page 1

MUSSELWHITE MINERAL INVENTORY MAY, 1990
 ECKEY AREA CONSERVATIVE CASE

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | Grade Uncut | Grade Cut(25g/t) | Product Uncut | Product Cut(25g/t) | |
|---------------|---------|----------|---------|------|--------|-----------|------------------------|------------|--------------------------|---------|----------|-------------|------------------|---------------|--------------------|-----------|
| EN | 36+00 | N | EC1 | 581 | 226.20 | 229.15 | 2.95 | 50.94 | 100.00 | 5894.00 | 3.20 | 16300.00 | 0.17 | 0.17 | 133177.54 | 133177.54 |
| TOTAL | 36+00 | N | ESV | | | | | | | | 16300.00 | 0.17 | 0.17 | 133177.54 | 133177.54 | |
| | 36+00 | N | CORE | | | | | | | | | | | | | |
| | 36+00 | N | ROOT | | | | | | | | | | | | | |
| SECTION TOTAL | | | | | | | | | | | 16300.00 | 0.17 | 0.17 | 133177.54 | 133177.54 | |

APPENDIX IIIb.
TABULATION OF "ADDITIONAL POTENTIAL"
TONNAGE - ESKER ZONE ONLY

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 ESKER AREA - ADDITIONAL POTENTIAL

| Section | ESKER ZONE | | CORE ZONE | | ROOT ZONE | | TOTAL | | |
|----------------|------------|-----------|------------|--------|-----------|------------|--------|-----------|------------|
| | Tonnes | Grade | | Tonnes | Grade | | Tonnes | Grade | |
| | | Uncut | Cut(25g/t) | | Uncut | Cut(25g/t) | | Uncut | Cut(25g/t) |
| 29+00 | N | 9699.20 | | | | | | 9699.20 | |
| 30+00 | N | 29350.40 | | | | | | 29350.40 | |
| 31+00 | N | 27859.20 | | | | | | 27859.20 | |
| 32+00 | N | 17865.60 | | | | | | 17865.60 | |
| 33+00 | N | 41996.80 | | | | | | 41996.80 | |
| 34+00 | N | 24499.20 | | | | | | 24499.20 | |
| 35+00 | N | 25798.40 | | | | | | 25798.40 | |
| 36+00 | N | 23798.40 | | | | | | 23798.40 | |
| TOTALS | | 209867.20 | | 0.00 | | 0.00 | | 200867.20 | |
| CHECK ADDITION | | | | | | | | 200867.20 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 ESYER AREA ADDITIONAL POTENTIAL

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m2) | Length (m) | Volume (m3) | S.G. | Tonnes | Grade | Uncut | Cut(25g/t) | Uncut | Cut(| | | |
|---------------|---------|----------|---------|------|----|-----------|-----------|------------|-------------|------|----------|-------|-------|------------|-------|------|--|----------|--|
| ESK | 29+00 | N | | | | | 30.31 | 100.00 | 3031.00 | 3.20 | 9699.20 | | | | | | | | |
| TOTALS | | | | | | | | | | | 29+00 | N | ESK | | | | | 9699.20 | |
| | | | | | | | | | | | 29+00 | N | CORE | | | | | | |
| | | | | | | | | | | | 29+00 | N | ROOT | | | | | | |
| SECTION TOTAL | | | | | | | | | | | | | | | | | | 9699.20 | |
| ESK | 30+00 | N | | | | | 57.66 | 100.00 | 5766.00 | 3.20 | 18451.20 | | | | | | | | |
| ESY | 30+00 | N | | | | | 34.06 | 100.00 | 3406.00 | 3.20 | 10899.20 | | | | | | | | |
| TOTALS | | | | | | | | | | | 30+00 | N | ESK | | | | | 29350.40 | |
| | | | | | | | | | | | 30+00 | N | CORE | | | | | | |
| | | | | | | | | | | | 30+00 | N | ROOT | | | | | | |
| SECTION TOTAL | | | | | | | | | | | | | | | | | | 29350.40 | |
| ESK | 31+00 | N | | | | | 42.06 | 100.00 | 4206.00 | 3.20 | 13459.20 | | | | | | | | |
| ESK | 31+00 | N | | | | | 45.00 | 100.00 | 4500.00 | 3.20 | 14400.00 | | | | | | | | |
| TOTALS | | | | | | | | | | | 31+00 | N | ESK | | | | | 27859.20 | |
| | | | | | | | | | | | 31+00 | N | CORE | | | | | | |
| | | | | | | | | | | | 31+00 | N | ROOT | | | | | | |
| SECTION TOTAL | | | | | | | | | | | | | | | | | | 27859.20 | |

MUSSELWHITE MINERAL INVENTORY MAY, 1988
 ESKER AREA ADDITIONAL POTENTIAL

| Zone | Section | Block No | DDH No. | From | To | Width (m) | Area (m ²) | Length (m) | Volume (m ³) | S.G. | Tonnes | 1 | Grade | 1 | Produ | |
|---------------|---------|----------|---------|------|----|-----------|------------------------|------------|--------------------------|------|----------|---|-------|------------|-------|------------|
| | | | | | | | | | | | | | Uncut | Cut(25g/t) | Uncut | Cut(25g/t) |
| ESK | 36+00 | N | | | | | 38.12 | 100.00 | 3612.00 | 3.20 | 12198.40 | | | | | |
| COF | 36+00 | N | | | | | 36.25 | 100.00 | 3625.00 | 3.20 | 11500.00 | | | | | |
| TOTALS | 36+00 | N | | | | | | | | | 23798.40 | | | | | |
| | 36+00 | N | | | | | | | | | | | | | | |
| | 36+00 | N | | | | | | | | | | | | | | |
| SECTION TOTAL | | | | | | | | | | | 23798.40 | | | | | |

APPENDIX IV
COMPLETE DRAWING LIST
ACCOMPANYING THIS REPORT

Esker Zone - DCH Sections - 1:250

| DIAGRAM | | DRAWING # |
|---------|-----|--------------|
| 27+00N | WU | 2-1-2-18-1A |
| 27+00N | U | 2-1-2-18-1B |
| 27+00N | L | 2-1-2-18-1C |
| 29+00N | WU | 2-1-2-18-10A |
| 29+00N | U | 2-1-2-18-10B |
| 29+00N | L | 2-1-2-18-10C |
| 30+00N | WU | 2-1-2-18-2A |
| 30+00N | U | 2-1-2-18-2B |
| 30+00N | L | 2-1-2-18-2C |
| 31+00N | WU | 2-1-2-18-3A |
| 31+00N | U | 2-1-2-18-3B |
| 31+00N | L | 2-1-2-18-3C |
| 31+00N | WL | 2-1-2-18-3D |
| 32+00N | WU | 2-1-2-18-4A |
| 32+00N | U | 2-1-2-18-4B |
| 32+00N | L | 2-1-2-18-4C |
| 32+00N | LE | 2-1-2-18-4D |
| 32+00N | WLE | 2-1-2-18-4E |
| 32+00N | WL | 2-1-2-18-4F |
| 33+00N | WU | 2-1-2-18-5A |
| 33+00N | U | 2-1-2-18-5B |
| 33+00N | L | 2-1-2-18-5C |
| 33+00N | WL | 2-1-2-18-5D |

Esker Zone - DDH Sections cont'd

| DIAGRAM | DRAWING # |
|-----------|-------------|
| 34+00N WU | 2-1-2-18-6A |
| 34+00N L | 2-1-2-18-6B |
| 34+00N WL | 2-1-2-18-6C |
| 35+00N WU | 2-1-2-18-7A |
| 35+00N L | 2-1-2-18-7B |
| 35+00N WL | 2-1-2-18-7C |
| 36+00N WU | 2-1-2-18-8A |
| 36+00N U | 2-1-2-18-8B |
| 36+00N L | 2-1-2-18-8C |
| 36+00N WL | 2-1-2-18-8D |
| 39+00N WU | 2-1-2-18-9A |
| 39+00N U | 2-1-2-18-9B |

Long Sections Blocked - 1:1000

| | |
|----------------------------|-------------|
| Core Zone 24+00N - 32+00N | 2-1-2-19-1A |
| Core Zone 32+00N - 40+00N | 2-1-2-19-1B |
| Root Zone 24+00N - 32+00N | 2-1-2-19-2A |
| Root Zone 32+00N - 40+00N | 2-1-2-19-2B |
| Esker Zone 24+00N - 32+00N | 2-1-2-19-3A |
| Esker Zone 32+00N - 40+00N | 2-1-2-19-3B |

Plan Geology - 1:1000

5225m EL 24+00N - 32+00N

2-1-2-20-1A

5225m EL 32+00N - 40+00N

2-1-2-20-1B

5200m EL 24+00N - 32+00N

2-1-2-20-2A

5200m EL 32+00N - 40+00N

2-1-2-20-2B

5175m EL 24+00N - 32+00N

2-1-2-20-3A

5175m EL 32+00N - 40+00N

2-1-2-20-3B

5150m EL 24+00N - 32+00N

2-1-2-20-4A

5150m EL 32+00N - 40+00N

2-1-2-10-4B

Surface Plans

-surveyed DDH collar locations - 1:1000

8+00N - 0+00N

16+00N - 8+00N

16+00N - 8+00N 3+00W - 8+00W

24+00N - 16+00N

32+00N - 24+00N

40+00N - 32+00N

T-Antiform Mineral Inventory - DDH Sections - 1:250

| DIAGRAM | | DRAWING # |
|---------|-----|--------------|
| 1+50N | WU | 2-1-2-15-1 |
| 2+00N | WU | 2-1-2-15-2 |
| 2+50N | WU | 2-1-2-15-3 |
| 3+00N | WU | 2-1-2-15-4 |
| 3+50N | WU | 2-1-2-15-5 |
| 4+00N | WU | 2-1-2-15-6A |
| 4+00N | WL | 2-1-2-15-6B |
| 4+50N | WU | 2-1-2-15-7A |
| 4+50N | WL | 2-1-2-15-7B |
| 5+00N | WU | 2-1-2-15-8A |
| 5+00N | WL | 2-1-2-15-8B |
| 5+50N | WU | 2-1-2-15-9A |
| 5+50N | WL | 2-1-2-15-9B |
| 6+00N | WU | 2-1-2-15-10A |
| 6+00N | WL | 2-1-2-15-10B |
| 6+00N | WLE | 2-1-2-15-10C |
| 6+50N | WU | 2-1-2-15-11A |
| 6+50N | WL | 2-1-2-15-11B |
| 6+50N | WLE | 2-1-2-15-11C |
| 7+00N | WU | 2-1-2-15-12A |
| 7+00N | WL | 2-1-2-15-12B |

T-Antiform - DDH Sections cont'd

| DIAGRAM | | DRAWING # |
|---------|-----|--------------|
| 7+00N | WLE | 2-1-2-15-12C |
| 7+50N | WU | 2-1-2-15-13A |
| 7+50N | WL | 2-1-2-15-13B |
| 8+00N | WU | 2-1-2-15-14A |
| 8+00N | WL | 2-1-2-15-14B |
| 8+00N | WLE | 2-1-2-15-14C |
| 8+50N | WU | 2-1-2-15-15A |
| 8+50N | WL | 2-1-2-15-15B |
| 8+50N | WLE | 2-1-2-15-15C |
| 9+00N | WU | 2-1-2-15-16A |
| 9+00N | WL | 2-1-2-15-16B |
| 9+00N | WLE | 2-1-2-15-16C |
| 10+00N | WL | 2-1-2-15-17A |
| 10+00N | WLE | 2-1-2-15-17B |
| 10+50N | WL | 2-1-2-15-18A |
| 10+50N | WLE | 2-1-2-15-18B |
| 11+00N | WL | 2-1-2-15-19A |
| 11+00N | WLE | 2-1-2-15-19B |
| 11+50N | WL | 2-1-2-15-20A |
| 11+50N | WLE | 2-1-2-15-20B |
| 12+00N | WL | 2-1-2-15-21A |
| 12+00N | WLE | 2-1-2-15-21B |
| 12+50N | WL | 2-1-2-15-22A |

T-Antiform - DDH Sections cont'd

| DIAGRAM | DRAWING # |
|---------------|--------------|
| 13+00N WL | 2-1-2-15-23A |
| 13+00N WLE | 2-1-2-15-23B |
| 14+00N WL | 2-1-2-15-24A |
| 14+00N WLE | 2-1-2-15-24B |
| 15+00N WLE"A" | 2-1-2-15-25A |
| 15+00N WLE"B" | 2-1-2-15-25B |

Composite Level Plans

| | |
|---------------------------------|-------------|
| 5175m - 5250m EL 0+00 - 8+00N | 2-1-2-16-01 |
| 5075m - 5150m EL 0+00 - 8+00N | 2-1-2-16-02 |
| 5075m - 5150m EL 8+00N - 16+00N | 2-1-2-16-03 |
| 4975m - 5050m EL 0+00 - 8+00N | 2-1-2-16-04 |
| 4975m - 5050m EL 8+00N - 16+00N | 2-1-2-16-05 |

Longitudinal Sections

| | |
|--------------------------------|-------------|
| T Main Zone 00+00 - 08+00N | 2-1-2-17-01 |
| T Main Zone 08+00 - 16+00N | 2-1-2-17-02 |
| West Arm A Zone 00+00 - 08+00N | 2-1-2-17-03 |
| West Arm A Zone 08+00 - 16+00N | 2-1-2-17-04 |
| West Arm B Zone 00+00 - 08+00N | 2-1-2-17-05 |
| S Crest Zone 00+00 - 08+00N | 2-1-2-17-06 |
| S Crest Zone 08+00 - 16+00N | 2-1-2-17-07 |
| S Zone 00+00N - 08+00N | 2-1-2-17-08 |
| S Zone 08+00N - 16+00N | 2-1-2-17-09 |

Miscellaneous - DDH Sections - 1:250

| | |
|--------|--------------------------|
| 13+50N | West Extension Upper (A) |
| 13+50N | West Extension Upper (B) |
| 13+50N | West Extension Lower (b) |
| 14+50N | Upper |
| 18+00N | Upper |
| 18+00N | West Upper |
| 21+00N | Upper |
| 21+00N | West Upper |
| 24+00N | Upper |
| 24+00N | Lower |
| 24+00N | West Upper |

T-Antiform - General DDH Sections - 1:250

| | |
|--------|--|
| 1+50N | Upper, Lower |
| 2+00N | Upper, Lower |
| 2+50N | Upper, Lower |
| 3+00N | Upper, Lower |
| 4+00N | Upper |
| 4+50N | Upper, Lower |
| 5+00N | Upper, Lower, Lower Ext, W Lower Ext |
| 5+25N | W Upper, W Lower |
| 5+50N | Upper, Lower, Lower Ext, W Lower Ext |
| 6+00N | Upper, Lower |
| 6+25N | Upper, Lower, W Upper, W Lower, Lower Ext, W Lower Ext |
| 6+50N | Upper, Lower, W Ext Upper |
| 7+00N | Upper, Lower |
| 7+50N | Upper, Lower, W Ext Upper |
| 8+00N | Upper, Lower, W Ext Upper |
| 8+50N | Upper, Lower, W Upper, W Ext Upper |
| 9+00N | Upper, Lower, W Upper, W Ext Upper |
| 9+50N | Upper, Lower, W Upper, W Lower, W Lower Ext, W Ext Upper |
| 10+00N | Upper, Lower, W Upper, W Ext Lower |
| 10+50N | Upper, Lower, W Ext Upper, W Lower Ext |
| 11+00N | Upper, Lower, W Upper, W Ext Upper |

T-Antiform-General DDH Sections - 1:250 cont'd

| | |
|--------|------------------------------------|
| 11+50N | W Upper, W Ext Upper |
| 12+00N | Upper, Lower, W Upper, W Ext Lower |
| 12+50N | W Ext Upper, W Ext Lower |
| 13+00N | W Ext Upper, W Ext Lower |
| 14+00N | W Ext Upper, W Ext Lower |
| 15+00N | W Ext Upper, W Ext Lower |

87.275

MUSSELWHITE

SURFACE

DRILL LOGS

MUS541 - MUS559

PLACER DOME INC.

REF CORR: 0572.F 7480.0 SURVEYED: YES

DIAMOND DRILL RECORD

LOCATION: 10*50N 0*25W GRID: WEST

HOLE NO: HUS541
PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1973)
SECTION:

POST LOCATION:

AZIMUTH: 229.0

LENGTH: 397.0

ELEVATION: 5302.5

LOGGED BY: R. STEWART

DIP: -64.5

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JANUARY 11 TO JANUARY 17, 1987

STARTED: JANUARY 8, 1987

COMPLETED: JANUARY 15, 1988

CLAIM NO:

PURPOSE: TO TEST T MAIN ZONE AT THE 5050m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 17.00 | | -63.5 | 210.00 | | -56.5 |
| 32.00 | | -63.0 | 240.00 | | -56.0 |
| 60.00 | | -63.0 | 270.00 | | -54.5 |
| 90.00 | | -62.0 | 300.00 | | -53.0 |
| 120.00 | | -61.0 | 330.00 | | -52.0 |
| 150.00 | | -59.0 | 360.00 | | -48.5 |
| 180.00 | | -57.0 | 390.00 | | -48.5 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

00 18.00 OVERBURDEN
Sand and boulders.

18.00 47.00 INTERMEDIATE TO MAFIC VOLCANICS

8.
Compositionally and texturally variable unit composed of 75 to 80% compositionally banded medium grained to locally fine grained dark green amphibole and plagioclase quartz with, 5% quartz-carbonate veins parallel to foliation.
Up to 5 to locally 25% phlogopite replacing amphibole as detailed below.
Well developed foliation at 40 to 50 degrees to the core axis.
Subordinate, open spaced foliation at 60 to 65 degrees to the core axis healed by mm scale quartz-carbonate veins.
Lower contact marked by 10 cm pyrite > pyrrhotite band with common vugs.
18.00 26.00 Rock RQD 65%.
22.80 27.10 INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS
25 to 40% medium grained brown phlogopite with 15% quartz-carbonate veins and veinlets. 10% 1 to 3mm garnets.
23.00 26.00 1 metre lost core.
26.00 41.00 Rock RQD 80%.

19120 35.00 36.75 .85 TR-0.5 .01 n/a n/a .01

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SpO | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 116.00 | 132.00 | Rock RQD 100%. | | | | | | | | | |
| 122.00 | 126.00 | Similar to text with 3 to 5% pyrite > pyrrhotite stringers subparallel to foliation | | | | | | | | | |
| 126.00 | 151.00 | Similar to text with 10 to 20% bleached sericitic banding subparallel foliation at 45 to 50 degrees to the core axis. 3 to 5% pyrrhotite > pyrite stringers locally. | | | | | | | | | |
| 132.00 | 148.00 | Rock RQD 100%. | | | | | | | | | |
| 148.00 | 155.80 | Rock RQD 100%. | | | | | | | | | |
| 151.00 | 159.80 | Similar to 100.70 to 122.50. Foliation at 50 degrees to the core axis. | | | | | | | | | |
| 159.80 | 255.70 | INTERMEDIATE TO MAFIC VOLCANICS Fine grained, dark green homogeneous B. 30% Hornblende quartz plagioclase with 5 to 10% phlogopite occurring as discrete mm scale threads to cm scale bands and 3 to 5% quartz-carbonate veins parallel to foliation. Well developed foliation at 40 to 45 degrees to the core axis. Less than or equal to 10% at 162.70 supported by phlogopite, biotite and hornblende. Trace pyrrhotite. 191.60 Similar to text. Foliation at 55 degrees to the core axis. Veins parallel to foliation at 40 to 45 degrees to the core axis. From 255.25 to 255.70. 159.80 162.70 3 garnet. 40% 1-3mm garnets decreasing to. 159.80 170.00 Rock RQD 100%. 170.00 188.00 Rock RQD 100%. 155.50 191.60 GARNETIFEROUS POTASSIC BASALT. 25 to locally 50% 1 to 5mm garnets supported by medium grained to coarse grained phlogopite with 15 to 20% dark green hornblende rich, garnet poor bands up to 50 cm. Trace sulphide, speck chalcopyrite at 187.5. Foliation at 50 to 60 degrees to the core axis. 186.80 189.00 Gt-3 speck chalcopyrite. 188.00 206.00 Rock RQD 100%. 202.75 204.80 POTASSIC BASALT. 5% 2 to 4 mm garnet increasing to 15% at 204.80 supported by phlogopite > hornblende. With 15% barren quartz > carbonate veins. Foliation at 45 degrees to the core axis. 204.80 210.70 24ea. 25 to 30%, 5 to 1 cm garnets with grunerite, green hornblende > phlogopite. 25 to 30% quartz with minor laminated chert magnetite. Trace to locally 5% disseminated pyrrhotite as described in samples. Poorly | 19132 | 186.80 | 190.00 | 1.20 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %p | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|--------|--------|-------|--------|---------|
| | | bedded at 30 to 40 degrees to the core axis. | | | | | | | | | |
| 204.80 | 206.30 | 2-4ea 5% pyrrhotite at 205.5. | 19133 | 204.80 | 206.30 | 1.50 | 2-3 | 1.19 | n/a | n/a | 1.19 |
| 206.00 | 224.00 | Rock RQD 95%. | | | | | | | | | |
| 205.30 | 207.80 | 2-4ea. | 19134 | 206.30 | 207.80 | 1.50 | 1-2 | .46 | n/a | n/a | .46 |
| 207.80 | 209.30 | 2-4ea. | 19135 | 207.80 | 209.30 | 1.50 | TR-1 | .07 | n/a | n/a | .07 |
| 209.30 | 210.70 | 2-4ea. | 19136 | 209.30 | 210.70 | 1.40 | TR-1 | .10 | n/a | n/a | .10 |
| 210.70 | 217.40 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS. 25% medium grained phlogopite imparting a well developed foliation at 40 degrees to the core axis. Barren quartz vein at 215.8 to 216.15. | | | | | | | | | |
| 217.40 | 219.85 | INTRAFORMATIONAL IRON FORMATION. Poorly developed 2-4e composed of 5 to 10% garnet supported by moderately gruneritized hornblende > phlogopite. With 10 to 15% quartz / chert plus or minus minor magnetite. 3 to 5% disseminated pyrrhotite commonly surrounding garnets and as stringers with quartz. | | | | | | | | | |
| 217.40 | 218.60 | 2-4e pyrrhotite seam at 217.60. | 19137 | 217.40 | 218.60 | 1.20 | 5 | .60 | n/a | n/a | .60 |
| 218.60 | 219.85 | 2-4e. | 19138 | 218.60 | 219.85 | 1.25 | 2-3 | 12.27 | 11.89 | n/a | 12.08 |
| 219.85 | 227.65 | Similar to text. Foliation at 40 to 45 degrees to the core axis. | | | | | | | | | |
| 224.00 | 242.00 | Rock RQD 100%. | | | | | | | | | |
| 227.65 | 229.60 | INTRAFORMATIONAL IRON FORMATION. Similar to 217.4. Trace to 0.5% pyrrhotite. | | | | | | | | | |
| 229.60 | 242.70 | Similar to text with medium grained texture foliation at 40 degrees to the core axis. 10% barren quartz veins. | | | | | | | | | |
| 242.00 | 255.70 | Rock RQD 100%. | | | | | | | | | |
| 242.70 | 244.50 | POTASSIC BASALT medium grained phlogopite rich unit with 15% quartz-carbonate. | | | | | | | | | |
| 244.50 | 250.40 | Similar to text. Barren quartz vein at 250.40 to 251.35. | | | | | | | | | |
| 251.35 | 255.70 | POTASSIC BASALT similar to 242.70 with 30% 3 to 5 mm garnets occurring. | | | | | | | | | |
| 255.70 | 262.90 | GARNET AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. Moderately to well bedded on a cm scale. 40 to 50% ea beds. 10 to 15% f beds interbedded with 30% laminated chert magnetite beds. Bedding variable at 40 to 60 degrees to the core axis. Common minor folding displaying right lateral asymmetry to 262.5, tight left lateral folds to 262.90. Axial plane 40 to 45 degrees to the core axis. | | | | | | | | | |
| 255.70 | 262.90 | Rock RQD 85%. | | | | | | | | | |
| 255.70 | 257.20 | 4ea. | 19139 | 255.70 | 257.20 | 1.50 | TR-0.5 | .67 | n/a | n/a | .67 |

FLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUSS41
PAGE NO: 8

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|--------|--------|-------|--------|---------|
| 322.65 | 324.00 | kea. | 19175 | 322.65 | 324.00 | 1.35 | TR | .01 | n/a | n/a | .01 |
| 324.00 | 325.50 | kea. | 19176 | 324.00 | 325.50 | 1.50 | TR | .97 | n/a | .52 | .75 |
| 325.50 | 326.50 | kea. | 19177 | 325.50 | 326.50 | 1.00 | TR | .13 | n/a | n/a | .13 |
| 326.50 | 327.45 | kea. | 19178 | 326.50 | 327.45 | .95 | TR | .23 | n/a | n/a | .23 |
| 327.45 | 329.15 | Similar to 318.0 with 2 to 3% pyrrhotite stringers associated with up to 15% glassy blue quartz. | | | | | | | | | |
| 327.45 | 328.30 | kea. | 19179 | 327.45 | 328.30 | .85 | 2-3 | 10.16 | 0.42 | n/a | 9.29 |
| 328.30 | 329.15 | kea. | 19180 | 328.30 | 329.15 | .85 | 2-3 | .56 | n/a | n/a | .56 |
| 329.00 | 347.00 | Rock RQD 85%. | | | | | | | | | |
| 329.15 | 341.00 | Dry kea. Similar to 322.65. Intensely gruneritized near upper contact gradually becoming replaced by 25% chloritic f beds at 339.0. Bedding constant at 45 degrees to the core axis. Locally mineralized as described in samples. | | | | | | | | | |
| 329.15 | 330.50 | Gruneritized kea. | 19181 | 329.15 | 330.50 | 1.35 | TR-0.5 | .36 | n/a | n/a | .36 |
| 330.50 | 332.00 | Local less than 1.0 cm quartz pyrrhotite vein | 19182 | 330.50 | 332.00 | 1.50 | 0.5-1 | 2.55 | n/a | n/a | 2.55 |
| 332.00 | 333.50 | kea with 25% laminated b beds. | 19183 | 332.00 | 333.50 | 1.50 | TR | .59 | n/a | n/a | .59 |
| 333.50 | 335.00 | kea with 25% laminated b beds. | 19184 | 333.50 | 335.00 | 1.50 | TR | .17 | n/a | n/a | .17 |
| 335.00 | 336.00 | kea with increasing silicification toward 336.0. | 19185 | 335.00 | 336.00 | 1.00 | TR-1 | .20 | n/a | .07 | .13 |
| 336.00 | 337.00 | 20 cm 10% pyrrhotite stringers at 336.20 to 336.40. | 19186 | 336.00 | 337.00 | 1.00 | 5-7 | 3.86 | n/a | n/a | 3.86 |
| 337.00 | 338.00 | kea local narrow quartz pyrrhotite vein. | 19187 | 337.00 | 338.00 | 1.00 | TR-1 | .36 | n/a | n/a | .36 |
| 338.00 | 339.50 | kea with less than 25% f beds. | 19188 | 338.00 | 339.50 | 1.50 | TR | .30 | n/a | n/a | .30 |
| 339.50 | 341.00 | kea with less than 15% f beds. | 19189 | 339.50 | 341.00 | 1.50 | TR-1 | 1.56 | n/a | n/a | 1.56 |
| 341.00 | 347.20 | kea similar to text. Well bedded at 35 to 40 degrees to the core axis. Locally siliceous with minor pyrrhotite as described in samples. | | | | | | | | | |
| 341.00 | 342.00 | kea moderately silicified. | 19190 | 341.00 | 342.00 | 1.00 | 3-4 | 1.42 | n/a | n/a | 1.42 |
| 342.00 | 343.00 | kea. | 19191 | 342.00 | 343.00 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 343.00 | 344.00 | kea. | 19192 | 343.00 | 344.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 344.00 | 345.00 | kea with up to 5% silicification. | 19193 | 344.00 | 345.00 | 1.00 | 1 | 3.23 | n/a | n/a | 3.23 |
| 345.00 | 346.00 | kea with up to 5% silicification and 15% laminated b beds. | 19194 | 345.00 | 346.00 | 1.00 | TR-1 | 1.20 | n/a | 1.07 | 1.13 |
| 346.00 | 347.20 | kea. | 19195 | 346.00 | 347.20 | 1.20 | TR-1 | 5.64 | n/a | n/a | 5.64 |
| 347.00 | 354.00 | Rock RQD 95%. | | | | | | | | | |
| 347.20 | 354.00 | MINERALIZED kea. Similar to 318.0 with 15 to 30% glassy blue quartz flooding disrupting bedding planes. | | | | | | | | | |
| 347.20 | 348.20 | kea 10% quartz flooding. | 19196 | 347.20 | 348.20 | 1.00 | 2-3 | 4.09 | 3.02 | n/a | 3.96 |
| 348.20 | 349.20 | kea 15% quartz flooding. | 19197 | 348.20 | 349.20 | 1.00 | 3-4 | 6.57 | 4.09 | n/a | 5.33 |
| 349.20 | 350.20 | kea 30% quartz flooding 3 speck visible gold. | 19198 | 349.20 | 350.20 | 1.00 | 10-15% | 13.78 | 12.57 | n/a | 13.18 |
| 350.20 | 351.20 | kea 30% quartz flooding 2 speck visible gold. | 19199 | 350.20 | 351.20 | 1.00 | 10-15% | 9.49 | 11.83 | n/a | 10.16 |
| 351.20 | 352.20 | kea 20% quartz flooding 2 speck visible gold. | 19200 | 351.20 | 352.20 | 1.00 | 10-15% | 7.07 | 6.34 | n/a | 6.71 |
| 352.20 | 353.20 | kea 20% quartz flooding. | 19201 | 352.20 | 353.20 | 1.00 | 7-10% | 4.12 | 3.24 | n/a | 3.68 |
| 353.20 | 354.00 | kea 20% quartz flooding. | 19202 | 353.20 | 354.00 | .80 | 7-10% | 4.98 | 9.09 | n/a | 7.04 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au | g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|--------|------|-----|-------|--------|---------|
| | | Typical E volc. Fine grained hornblende with up to 10% phlogopite seams and up to 5% mm sized garnet. Foliation well developed at 60 degrees to the core axis. 375.90 378.30 Rock RQD 75%. | | | | | | | | | | |
| 378.30 | 397.00 | GARNET - BIOTITE SCHIST Laminated 4f. Compositionally variable 4f, composed of 40% 0.5 to 3.0 cm f, interbedded with 5 to locally 15% ea beds and 15% laminated b beds. Bedding constant at 50 to 60 degrees to the core axis. Light minor folding displaying left limb closures to 395.0. Right limb folds to 397.0. F beds increase in width to 3.0 cm toward 397.0. Overall trace sulphide except as noted in samples. 378.30 386.00 Rock RQD 90%. | | | | | | | | | | |
| 378.30 | 382.00 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. Similar to text with 25% gruneritized ea beds. Trace pyrrhotite. | | | | | | | | | | |
| 378.30 | 379.80 | 4fea. | 19223 | 378.30 | 379.80 | 1.50 | 0 | 2.26 | n/a | n/a | 2.26 | |
| 379.80 | 381.00 | 4fea. | 19224 | 379.80 | 381.00 | 1.20 | 0 | .01 | n/a | n/a | .01 | |
| 381.00 | 382.00 | 4fea. | 19225 | 381.00 | 382.00 | 1.00 | 0 | .59 | n/a | 1.84 | 1.22 | |
| 382.00 | 397.00 | 4fe. As in text with decreasing ea beds to 5% toward 397.0. | | | | | | | | | | |
| 383.50 | 385.00 | 4f(ea). | 19226 | 383.50 | 385.00 | 1.50 | 0-0.5% | .48 | n/a | n/a | .48 | |
| 386.00 | 397.00 | Rock RQD 90%. | | | | | | | | | | |
| 385.50 | 387.00 | 4fe. | 19227 | 386.50 | 387.00 | .50 | TR | .34 | n/a | n/a | .34 | |
| 393.50 | 395.00 | 4f. | 19228 | 393.50 | 395.00 | 1.50 | TR | .01 | n/a | n/a | .01 | |

397.00 397.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|----------------|----------------|----------------|--------------|------------|------------|------------|------------|------------|
| | | Well defined fracture cleavage at 16 to 38 degrees to the core axis, carbonate filled. Occasional left limb folds with axial plane 30 degrees to the core axis. 27.00 28.70 Rock EQD 80%. 29.40 29.90 4ea(b). | 18833 | 28.40 | 29.90 | 1.50 | 0 | .43 | n/a | n/a | .43 |
| 28.70 | 31.80 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE I.F. 4ea(b). Similar to 25.4, but more heavily gruneritized, especially in upper 1.0 medium of unit. F beds increasing downhole to 10 to 15% at lower contact, heavily gruneritized. Rare trace pyrrhotite, locally developed. Well bedded at 47 to 53 degrees to the core axis. 29.70 31.80 Rock RQD 85%. 29.90 31.40 4ea(b). 31.40 32.90 4bf(e). | 18834 18835 | 29.90 31.40 | 31.40 32.90 | 1.50 1.50 | 1-2 0 | .01 .05 | n/a n/a | n/a n/a | .01 .05 |
| 31.80 | 37.40 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. Similar to 27.0, but with 35 to 40% f beds, interbanded on 1 to 2 cm scale. Well bedded at 45 degrees to the core axis, increasing to 57 to 58 degrees to the core axis downhole. Fracture cleavage well developed at 35 degrees to the core axis, less than or equal to 1 mm wide, carbonate filled. 31.80 37.40 Rock RQD 100%. 34.40 35.90 4bf. | 18836 | 34.40 | 35.90 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 37.40 | 46.00 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4b(f). Similar to 27.0, but with 5 to 10% f beds. Rare boudinaged chert beds, less than or equal to 1.3 cm. Trace to 1% pyrrhotite, as rare flecks associated with necks in chert boudins. Laminated to well bedded at 40 to 63 degrees to the core axis. Well developed fracture cleavage at 34 to 43 degrees to the core axis. 3 to 5% blue quartz ss veins sub parallel to bedding. Trace to 1% pyrrhotite, as rare blebs less than or equal to 2.0 mm. 37.40 38.90 4bf. 40.40 41.90 4b(f), quartz veins. | 18837 18838 | 37.40 40.40 | 38.90 41.90 | 1.50 1.50 | TR TR-1 | .01 .01 | n/a n/a | n/a n/a | .01 .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| 5 | 84 | grunerite, as laminae at contact of b and f beds. Grunerite occasionally disseminated in b beds. | | | | | | | | | |
| 5 | 104 | chert beds, less than or equal to 1.5 cm, boudinaged. | | | | | | | | | |
| | | Laminated to well bedded at 50 to 57 degrees to the core axis. Occasional left limb folds with axial plane parallel to fracture cleavage at 28 degrees to the core axis, increasing to 49 degrees to the core axis downhole. | | | | | | | | | |
| | | 1 to 2% pyrrhotite as veinlets and stringers associated with quartz. | | | | | | | | | |
| | | left limb folds down to 85.0, with axial plane 43 degrees to the core axis. | | | | | | | | | |
| | | Antiformal fold closure at 85.0, with axial plane 48 degrees to the core axis. Right limb folds below this with axial plane 42 degrees to the core axis. | | | | | | | | | |
| | | F beds rare in lower 1.0 m of unit. | | | | | | | | | |
| 52.30 | 85.10 | Rock RQD 95 to 100%. | | | | | | | | | |
| 62.30 | 63.30 | 4bf, quartz. | 18847 | 62.30 | 63.00 | 1.50 | 1-3 | .01 | n/a | n/a | .01 |
| 66.50 | 68.00 | 4fb, quartz, carbonate. | 18848 | 66.50 | 68.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 71.00 | 71.20 | Brecciated, chert pebbles in sulphide matrix. | | | | | | | | | |
| 71.00 | 72.50 | 4bf. | 18849 | 71.00 | 72.50 | 1.50 | 5-10 | .40 | n/a | .63 | .52 |
| 73.40 | 85.10 | As above, but with 8 to 10% disseminated grunerite. B beds more heavily gruneritized. Magnetite assumes a mottled texture. Garnet content increases to 10 to 15%. 3 to 5% chlorite, locally developed. | | | | | | | | | |
| 74.00 | 75.50 | 4bf, quartz. | 18850 | 74.00 | 75.50 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 77.00 | 78.50 | 4bf(a), quartz. | 18851 | 77.00 | 78.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 78.50 | 80.00 | 4bf, quartz. | 18852 | 78.50 | 80.00 | 1.50 | 1-2 | .25 | n/a | n/a | .25 |
| 80.00 | 81.50 | 4bf, quartz. | 18853 | 80.00 | 81.50 | 1.50 | 1-2 | .34 | n/a | n/a | .34 |
| 83.00 | 84.50 | 4bf. | 18854 | 83.00 | 84.50 | 1.50 | TR | .86 | n/a | n/a | .86 |
| 85 | 10 | 96.60 Rock RQD 100%. | | | | | | | | | |
| 85.10 | 96.60 | Similar to main text, but well bedded at 56 degrees to the core axis, decreasing downhole to 32 to 34 degrees to the core axis below 89.0 m. | | | | | | | | | |
| 86.00 | 87.50 | 4bf. | 18855 | 86.00 | 87.50 | 1.50 | 1-2 | .59 | n/a | n/a | .59 |
| 89.00 | 90.50 | 4bf(a). | 18856 | 89.00 | 90.50 | 1.50 | TR-1 | .30 | n/a | n/a | .30 |
| 93.50 | 95.00 | 4bf. | 18857 | 93.50 | 95.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |

96.60 124.35 CHERT - MAGNETITE IRON FORMATION

4b.
Similar to 49.15, but with less than or equal to 10% f beds, 0.3 to 0.6 cm wide.
70 to 80% b beds, generally with disseminated magnetite.
Well bedded at 33 to 43 degrees to the core axis.
Considerable folding from 102.5 to 108.3. Antiform-synform pairs visible with axial plane parallel to fracture

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | moderately chloritized. | | | | | | | | | |
| | | 20 to 30% b beds 2 to 8 mm, with 3 to 5% magnetite, generally disseminated. | | | | | | | | | |
| | | 1 to 2% amphibole beds less than or equal to 3 mm, locally developed. Amphibole associated with quartz veins. | | | | | | | | | |
| | | 2 to 4% blue quartz, as isolated veins sub parallel to bedding. Veins less than or equal to 1.0 cm. | | | | | | | | | |
| | | Well bedded at 46 to 50 degrees to the core axis. Poorly developed fracture cleavage at 31 degrees to the core axis; carbonate filled. | | | | | | | | | |
| | | Occasional breakage parallel to bedding with considerable chlorite developed on fracture plane. | | | | | | | | | |
| | | 23.60 25.50 Rock RQO 80%. | | | | | | | | | |
| | | 23.80 24.50 4fb. | 18883 | 23.60 | 24.50 | .90 | TR-1 | .01 | n/a | n/a | .01 |
| | | 24.50 25.50 4fb. | 18884 | 24.50 | 25.50 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 25.50 | 32.60 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHELT-GRUNERITE I. ^r 4faa. | | | | | | | | | |
| | | 50 to 60% f beds, 0.3 to 2.0 cm wide, locally chloritized, especially at bed margins. | | | | | | | | | |
| | | 20 to 25% e beds, 1 to 2 cm wide, moderately to locally heavily gruneritized. Contain 5 to 10% subhedral to amorphous garnet masses up to 1.2 cm diametr. | | | | | | | | | |
| | | Ea beds generally concentrated from 26.3 to 28.1 medium. | | | | | | | | | |
| | | 10 to 15% blue quartz as silicified zone from 26.5 to 28.2. Moderate bedding disruption. 1 to 3% pyrrhotite as veinlets and stringers associated with quartz. Rare arsenopyrite lozenges less than or equal to 1.5 mm associated with pyrrhotite trace to 1% pyrite as rare flecks. | | | | | | | | | |
| | | Moderately to well bedded at 33 degrees to the core axis, increasing to 54 degrees to the core axis downhole. | | | | | | | | | |
| | | Rare left limb folds with axial plane 44 degrees to the core axis. | | | | | | | | | |
| | | 25.50 32.60 Rock RQO 80 to 85%, locally to 50% over 1 m. | | | | | | | | | |
| | | 25.50 26.50 4faa, quartz, silicified. | 18885 | 25.50 | 26.50 | 1.00 | 2-4 | 2.21 | n/a | 2.48 | 2.34 |
| | | 26.50 27.50 4eaf, silicified. | 18886 | 26.50 | 27.50 | 1.00 | 5-10 | 5.70 | n/a | 5.95 | 5.82 |
| | | 27.50 28.50 4eaf, silicified, quartz. | 18887 | 27.50 | 28.50 | 1.00 | 3-5 | 1.42 | n/a | n/a | 1.42 |
| | | 28.50 29.50 4faa, quartz. | 18888 | 28.50 | 29.50 | 1.00 | 1-3 | .01 | n/a | n/a | .01 |
| | | 29.50 30.50 4f(ea). | 18889 | 29.50 | 30.50 | 1.00 | TR | .01 | n/a | n/a | .01 |
| | | 30.00 32.50 4feb. Similar to above but b beds increasing to 5 to 10% at lower contact. 3 to 5% carbonate as stringers parallel to bedding. | | | | | | | | | |
| | | 30.50 32.00 4f(eb), carbonate. | 18890 | 30.50 | 32.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 32.00 33.50 4tf, carbonate. | 18891 | 32.00 | 33.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | <p>Grunerite also disseminated through unit imparting a yellow cast to b beds.</p> <p>35 to 40% b beds less than or equal to 1.5 cm with 10 to 15% disseminated magnetite. Interbanded with 20 to 25% chert beds less than or equal to 1.0 cm, occasionally boulinaged or necked.</p> <p>1 to 5% f beds, locally developed; moderately chloritized.</p> <p>40 to 45% blue and white quartz as a very broad band from 54.5 to 55.7; contact with b beds sub parallel to bedding. Trace to 1% pyrrhotite as rare veinlets and stringers in quartz.</p> <p>52.4 Crosscutting fracture at 90 degrees to the core axis, 2 mm wide, carbonate filled.</p> <p>Well bedded at 44 to 51 degrees to the core axis.</p> <p>50.50 56.10 Rock RQD 90 to 95%.</p> | | | | | | | | | |
| | | 53.00 54.50 4ba, quartz vein. | 18897 | 53.00 | 54.50 | 1.50 | TR | 1.38 | n/a | n/a | 1.38 |
| | | 54.50 56.00 1.3 m quartz vein, 4ba. | 18898 | 54.50 | 56.00 | 1.50 | 0 | .45 | n/a | n/a | .45 |
| | | 56.00 57.50 4f(b), quartz. | 18899 | 56.00 | 57.50 | 1.50 | - | .63 | n/a | n/a | .63 |
| 56.10 | 89.30 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4f(b). | | | | | | | | | |
| | | <p>Similar to 23.6, but with 70 to 75% f beds interbanded on a 2 mm to 15 cm scale with 20 to 25% magnetite poor b beds. F beds moderately to locally heavily chloritized and contain 20 to 25% 1 to 2 mm garnets.</p> <p>B beds tend to be more numerous in upper 2.0 m of unit.</p> <p>1 to 3% quartz as veins less than or equal to 2.0 cm occasionally disrupting bedding. Veins barren.</p> <p>Well bedded at 30 to 32 degrees to the core axis.</p> <p>Considerable broad, open left limb folding with axial plane variable at 24 to 38 degrees to the core axis.</p> <p>Folds often display small scale M folds.</p> <p>Rare 1 to 2 mm carbonate filled fractures cut bedding at approx 90 degrees.</p> | | | | | | | | | |
| | | 56.10 59.50 Rock RQD 90%. | | | | | | | | | |
| | | 59.00 60.50 4f(b), carbonate. | 18900 | 59.00 | 60.50 | 1.50 | - | .01 | n/a | n/a | .01 |
| | | 60.50 74.10 Rock RQD 100%. | | | | | | | | | |
| | | 63.50 65.00 4f(b). | 18901 | 63.50 | 65.00 | 1.50 | - | .01 | n/a | n/a | .01 |
| | | 66.00 69.50 4f(b). | 18902 | 66.00 | 69.50 | 1.50 | - | .15 | n/a | n/a | .15 |
| | | 72.50 74.00 4f(b). | 18903 | 72.50 | 74.00 | 1.50 | - | .01 | n/a | n/a | .01 |
| | | 74.00 89.30 As above, but b beds decreasing downhole to 5 to 10% (also very garnet poor) below 78.0. | | | | | | | | | |
| | | 74.10 81.90 Rock RQD 75 to 80%. | | | | | | | | | |
| | | 78.50 80.00 4f(b). | 18904 | 78.50 | 80.00 | 1.50 | - | .01 | n/a | n/a | .01 |
| | | 81.90 89.30 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 84.50 86.00 4f(b). | 18905 | 84.50 | 86.00 | 1.50 | - | .39 | n/a | n/a | .39 |
| | | 87.80 89.30 4f(b). | 18906 | 87.80 | 89.30 | 1.50 | - | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | 5 to 10% f beds, garnet poor, 1 to 6 mm wide moderately chloritized. | | | | | | | | | |
| | | 5 to 10% quartz veins parallel to bedding at 40 degrees to the core axis, decreasing downhole to 29 degrees to the core axis. | | | | | | | | | |
| | | 100.30 108.70 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 100.30 101.80 4b(ae). | 18915 | 100.30 | 101.80 | 1.50 | TR-1 | 1.78 | n/a | n/a | 1.78 |
| | | 101.30 103.30 4b(ae). | 18916 | 101.80 | 103.30 | 1.50 | 1-3 | .90 | n/a | n/a | .90 |
| | | 103.30 104.80 4b(ae). | 18917 | 103.30 | 104.80 | 1.50 | TR | .07 | n/a | .10 | .08 |
| | | 104.10 105.10 Considerable antiform-synform pairs with occasional right limb folds. Axial plane 34 to 39 degrees to the core axis. | | | | | | | | | |
| | | 104.80 106.30 4b(ae). | 18918 | 104.80 | 106.30 | 1.50 | TR | .91 | n/a | n/a | .91 |
| | | 106.30 107.80 4b(f). | 18919 | 106.30 | 107.80 | 1.50 | - | 1.83 | n/a | n/a | 1.83 |
| | | 107.80 108.70 4b(af). | 18920 | 107.80 | 108.70 | .90 | - | .01 | n/a | n/a | .01 |
| 108.70 | 124.30 | CHELT - MAGNETITE IRON FORMATION 4b. Similar to 34.5, but with 60 to 70% b beds, and 25 to 30% very magnetite poor chert beds. 5 to 7% pyrrhotite, locally developed as replacement of magnetite in 1 to 2 cm patches. 3 to 5% quartz veins, less than or equal to 4 cm, sub parallel to bedding, but locally causing some bedding disruption. Generally well bedded at 26 to 35 degrees to the core axis, locally to 45 degrees to the core axis. | | | | | | | | | |
| | | 108.70 124.30 Rock RQD 100%. | | | | | | | | | |
| | | 108.70 110.30 4b. | 18921 | 108.70 | 110.30 | 1.60 | 2-4 | .10 | n/a | n/a | .10 |
| | | 110.30 111.80 4b. | 18922 | 110.30 | 111.80 | 1.50 | 2-4 | .01 | n/a | n/a | .01 |
| | | 113.00 114.50 4b. | 18923 | 113.00 | 114.50 | 1.50 | 2-4 | .01 | n/a | n/a | .01 |
| | | 117.50 119.00 4b. | 18924 | 117.50 | 119.00 | 1.50 | 3-5 | .66 | n/a | n/a | .66 |
| | | 121.30 122.80 4b. | 18925 | 121.30 | 122.80 | 1.50 | 1-3 | .01 | n/a | n/a | .01 |
| | | 122.80 124.30 4b(a). | 18926 | 122.80 | 124.30 | 1.50 | 2-4 | .01 | n/a | .01 | .01 |
| 124.30 | 127.30 | SULFIDE FACIES IRON FORMATION 4h. 75 to 30% 4 to 2.0 cm chert fragments supported in a massive pyrrhotite matrix, intermixed with 10 to 15% b beds showing extensive replacement of magnetite by pyrrhotite. 10 to 15% blue quartz as veins locally to 20 cm wide. Moderately bedded at 30 to 41 degrees to the core axis. | | | | | | | | | |
| | | 124.30 127.30 Rock RQD 100%. | | | | | | | | | |
| | | 124.30 125.80 4h. | 18927 | 124.30 | 125.80 | 1.50 | 35;40 | .37 | n/a | n/a | .37 |
| | | 125.80 127.30 4h. | 18928 | 125.80 | 127.30 | 1.50 | 45;50 | .10 | n/a | n/a | .10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 127.30 | 131.20 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba(h). Similar to 50.5, with grunerite laminae up to 3 mm thick. Well bedded at 41 degrees to the core axis, increasing to 63 degrees to the core axis downhole. Carbonate filled fracture parallel to core axis from 128.6 to 128.8. 3 mm dextral offset. 127.30 131.20 Rock RQD 90 to 95%. 129.70 131.20 4ba. | 18929 | 129.70 | 131.20 | 1.50 | 3-5 | .39 | n/a | n/a | .39 |
| 124.20 | 132.00 | SULFIDE FACIES IRON FORMATION 4h. Similar to 124.3. Moderately to well bedded at 48 degrees to the core axis. 131.20 132.00 Rock RQD 100%. 131.20 132.00 4h. | 18930 | 131.20 | 132.00 | .80 | 40 | .06 | n/a | n/a | .06 |
| 132.00 | 158.00 | BASALT 2. Typical fine grained to medium grained medium green volcanic package; contains 10 to 15% medium grained brown phlogopite. Foliation poorly developed at 30 to 49 degrees to the core axis. Core locally blocky with gravelly sections over 20 to 30 cm ; considerable chlorite and carbonate developed on broken surfaces. Unit carries 5 to 7% less than or equal to 1 mm white feldspar laths generally oriented sub parallel to foliation RQD 95 to 90%. 135.00 143.70 Rock RQD 75 to 80%. 135.00 143.70 As above but core bleached, with 5 to 7% carbonate blebs, often twisted and folded with axial plane approx 39 degrees to the core axis. 142.60 144.10 B, quartz-carbonate veins. 143.70 158.00 As in main text but core coloured light grey green. Foliation better developed, decreasing rapidly to 15 degrees to the core axis at 143.7, and then increasing to 22 to 27 degrees to the core axis downhole. | 18931 | 142.60 | 144.10 | 1.50 | - | .01 | n/a | n/a | .01 |
| 158.00 | 158.00 | END OF HOLE | | | | | | | | | |

CORE STORED ON PROPERTY.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5543
PAGE NO: 8

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

HOLE CEMENTED AND CASING FULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Core locally blocky over 30 to 50 cm, with gravelly sections over 10 to 20 cm. Crosscutting carbonate filled fracture set less than or equal to 1 mm with 1 to 2 mm bleached halo; oriented at 85 to 90 degrees to foliation. 107.50 113.45 Rock RQD 75 to 80%. | | | | | | | | | |
| 113.45 | 115.40 | GARNETIFEROUS POTASSIC BASALT Gt-3. Similar to 25.9. W-11 foliated at 44 to 59 degrees to the core axis; unit displays weak compositional banding of carbonate bands parallel to foliation. 113.45 115.40 Rock RQD 95 to 100%. | | | | | | | | | |
| 115.40 | 145.70 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B(3). Similar to 64.05, but disseminated phlogopite locally to 20%. Well foliated at 32 to 44 degrees to the core axis. Unit bleached from 116.5 to 117.5 and 121.6 to 122.75. Core locally blocky over 0.5 to 1.0 m lengths with chloritic gravelly sections 30 to 50 cm and occasional silver dollar core. Typical 2-4e unit of moderately chloritized garnet amphibole beds but with only 5 to 7% less than or equal to 1.0 cm subhedral to amorphous garnet masses. 5 to 10% quartz veins less than or equal to 1.5 cm, sub parallel to bedding, but locally producing slight bedding disruption. 5 to 10% pyrrhotite as sulphide replacement of amphibole and locally as sulphide cement. 115.40 119.50 Rock RQD 70 to 75%. 119.50 122.20 Rock RQD 20 to 25%. 121.50 123.00 B(3), carbonate bleached. 122.20 125.40 Rock RQD 85 to 90%. 125.40 145.70 Rock RQD 95 to 100%. 127.50 129.00 B(3), quartz veins less than or equal to 30 cm, barren. 136.00 137.00 2-4e, quartz veins. 136.10 136.70 24e. 140.00 144.20 3B similar to 115.4 but with 15 to 20% medium grained brown phlogopite associated with 3 to 5% carbonate veins parallel to foliation. Veins less than or equal to 1.0 cm. Unit becomes a typical 3 from 141.6 to 143.7 with phlogopite, carbonate, feldspar | 20004 | 121.50 | 123.00 | 1.50 | - | 1.10 | n/a | n/a | 1.10 |
| | | | 20005 | 127.50 | 129.00 | 1.50 | - | .27 | n/a | n/a | .27 |
| | | | 20006 | 136.00 | 137.00 | 1.00 | 5-10 | 7.59 | 4.26 | n/a | 5.92 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

pinhead garnets. Locally chloritized. Interbanded with 25 to 30% b beds less than or equal to 1.0 cm with 5 to 8% magnetite, generally disseminated, but locally as laminae. Rare 1 to 2 cm quartz veins sub parallel to bedding; barren.

Well bedded at 19 degrees to the core axis, increasing downhole to 29 to 42 degrees to the core axis.

Occasional broad, open right limb folds with axial plane 34 to 39 degrees to the core axis; developed from 183.5 to 185.0.

NB: 50 cm CORE LOST from 186.0 to 188.0. Core blocky in this interval.

177.40 191.50 Rock RQD 80 to 85%.

177.40 178.90 4fb.

182.00 183.50 4f(b).

186.50 188.00 4fb, rare quartz veins.

190.00 191.50 4f(b).

| | | | | | | | | |
|-------|--------|--------|------|---|-----|-----|-----|-----|
| 20019 | 177.40 | 178.90 | 1.50 | 0 | .44 | n/a | .20 | .32 |
| 20020 | 182.00 | 183.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 20021 | 186.50 | 188.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 20022 | 190.00 | 191.50 | 1.50 | 0 | .67 | n/a | n/a | .67 |

191.50 199.25 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE

SCHIST

4ea(f).

Similar to 169.35, but with 40 to 45% heavily gruneritized ea beds; 20 to 25% f beds less than or equal to 1.0 cm weakly chloritized at margins.

20 to 25% b beds 0.4 to 1.0 cm with 5 to 8% magnetite, generally disseminated.

Well bedded at 57 degrees to the core axis, decreasing downhole to 38 degrees to the core axis at 193.6, and then increasing to 42 to 43 degrees to the core axis by 197.0.

Fold closure not visible, but occasional left limb folds seen with axial plane 43 degrees to the core axis, increasing to 65 degrees to the core axis downhole.

5 to 10% quartz as veins. 5 to 6 cm wide, sub parallel to bedding with occasional slight bedding disruption. Trace to 1% pyrrhotite as flecks and blebs locally developed in quartz.

191.50 199.25 Rock RQD 90 to 95%.

191.50 193.00 4eaf, quartz veins.

193.00 194.50 4eaf, quartz veins.

194.50 196.00 4eaf.

196.00 197.50 4eaf, quartz veins.

197.50 198.50 4eaf, quartz veins.

199.50 199.25 4eaf, quartz veins.

| | | | | | | | | |
|-------|--------|--------|------|------|-----|-----|-----|-----|
| 20023 | 191.50 | 193.00 | 1.50 | 1 | .77 | n/a | n/a | .77 |
| 20024 | 193.00 | 194.50 | 1.50 | 1-2 | .30 | n/a | n/a | .30 |
| 20025 | 194.50 | 196.00 | 1.50 | TR | .30 | n/a | n/a | .30 |
| 20026 | 196.00 | 197.50 | 1.50 | TR-1 | .48 | n/a | n/a | .48 |
| 20027 | 197.50 | 198.50 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 20028 | 198.50 | 199.25 | .75 | 0 | .54 | n/a | .50 | .52 |

199.25 204.60 GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F.
4f(b).

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Similar to 177.4, but unit contains 5 to 10% disseminated grunerite in b beds ; produces a yellow cast in unit. Well bedded at 46 to 58 degrees to the core axis. Antiformal fold closure at 199.55 with axial plane 51 degrees to the core axis ; fold limbs isoclinal. Occasional right limb folds from 200.0 to 203.5 ; broad, open with axial plane 53 to 55 degrees to the core axis. Poorly developed fracture cleavage (cb filled) at 34 to 45 degrees to the core axis. 199.25 204.60 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 199.25 200.75 4f(b). | 20029 | 199.25 | 200.75 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| | | 200.75 202.25 4f(b). | 20030 | 200.75 | 202.25 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 202.25 203.75 4f(b). | 20031 | 202.25 | 203.75 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 203.75 204.60 4f(b). | 20032 | 203.75 | 204.60 | .85 | 0 | .14 | n/a | n/a | .14 |
| 204.60 | 235.65 | INTERNIZED MAFIC VOLCANICS AND POTASSIC BASALT E-3. Similar to 50.0, but with 15 to 20% medium grained brown phlogopite, generally disseminated. 10 to 15% carbonate-quartz, as threads and stringers parallel to foliation. Occasionally carbonate concentration is such that core becomes slightly bleached. 5 to 10% garnets less than or equal to 3 mm, locally developed and stretched parallel to foliation planes. Rare 10 to 15 cm bands of ea material associated with quartz ; carry 1 to 2% pyrrhotite blebs. Rare crosscutting fracture set, carbonate filled at approx 90 degrees to foliation. Well foliated at 30 to 42 degrees to the core axis. 204.60 232.70 Rock RQD 100%. | | | | | | | | | |
| | | 221.70 222.20 B/2-4e, quartz. | 20033 | 221.70 | 222.20 | .50 | 1-2 | .01 | n/a | n/a | .01 |
| | | 232.70 235.65 Rock RQD 85 to 90%. | | | | | | | | | |
| 235.65 | 240.05 | GARNETIFEROUS POTASSIC BASALT Gt-3. Similar to 44.6, with 5 to 10% chert beds. 5 to 1.5 cm oriented parallel to foliation. Moderately foliated at 29 to 36 degrees to the core axis. ; 1% pyrrhotite as tiny stringers at chert bed margins or as fracture cleavage infilling locally developed at 42 to 63 degrees to the core axis. 40 cm of 2-4e material at start of unit; carries 3% 1 pyrrhotite blebs. 235.65 240.05 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 235.65 236.60 Gt-3 / 2-4e, quartz veins. | 20034 | 235.65 | 236.60 | .95 | 1-3 | .01 | n/a | n/a | .01 |
| | | 236.60 238.10 Gt-3. | 20035 | 236.60 | 238.10 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | RERUN | REJECT | AVERAGE | |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|--|
| 238.10 | 239.10 | Gt-3, quartz veins. | 20036 | 238.10 | 239.10 | 1.00 | 1-2 | .01 | n/a | n/a | .01 | |
| 239.10 | 240.05 | Gt-3. | 20037 | 239.10 | 240.05 | .95 | TR-1 | .01 | n/a | .01 | .01 | |
| 240.05 | 241.65 | INTRAFORMATIONAL IRON FORMATION | | | | | | | | | | |
| | | 2-4e. | | | | | | | | | | |
| | | 30 to 40% heavily gruneritized ea beds less than or equal to 15 cm, with 10 to 15% 3 to 10 medium subhedral to amorphous garnet masses. | | | | | | | | | | |
| | | 40 to 50% medium green B volc material, locally garnetiferous with garnets up to 6 mm diameter. | | | | | | | | | | |
| | | Moderately banded at 56 to 67 degrees to the core axis. | | | | | | | | | | |
| | | 10 to 15% quartz-carbonate veins less than or equal to 8 cm, cutting banding at 56 to 66 degrees to the core axis. | | | | | | | | | | |
| | | Unit complexly folded (fold sense not determined) with axial plane 53 to 61 degrees to the core axis. | | | | | | | | | | |
| | | 1 to 3% pyrrhotite throughout as moderately developed sulphide cement in ea beds and as stringers in quartz-carbonate veins. | | | | | | | | | | |
| 240.05 | 241.65 | Rock EQD 100%. | 20038 | 240.05 | 240.95 | .90 | 1-3 | .29 | n/a | n/a | .29 | |
| 240.05 | 240.95 | 2-4e. | 20039 | 240.95 | 241.65 | .70 | 1-3 | 2.50 | n/a | n/a | 2.50 | |
| 241.65 | 244.30 | INTERMIXED NAFC VOLCANICS AND POTASSIC BASALT | | | | | | | | | | |
| | | B-3. | | | | | | | | | | |
| | | Similar to 235.65. | | | | | | | | | | |
| | | Well foliated at 57 to 65 degrees to the core axis. | | | | | | | | | | |
| | | 5 to 7% quartz veins less than or equal to 4 cm, barren. | | | | | | | | | | |
| | | Core blocky over 10 to 30 cm with chlorite developed on broken surfaces. Rare silver dollar core poorly developed. | | | | | | | | | | |
| 241.65 | 244.30 | Rock EQD 70 to 75%. | 20040 | 241.65 | 243.10 | 1.45 | 0 | .05 | n/a | n/a | .05 | |
| 241.65 | 243.10 | B-3, quartz vein. | 20041 | 243.10 | 244.10 | 1.00 | TR | .01 | n/a | n/a | .01 | |
| 243.10 | 244.10 | B-3. | | | | | | | | | | |
| 243.80 | 244.30 | As above but unit contains 5 to 10% garnet megacrysts up to 4 cm diameter. | | | | | | | | | | |
| 244.30 | 251.60 | INTRAFORMATIONAL IRON FORMATION | | | | | | | | | | |
| | | 2-4fe. | | | | | | | | | | |
| | | Texturally and compositionally variable unit composed of 50 to 60% grunerite biotite garnet beds, very heavily gruneritized, with 40 to 50% 2 to 3 mm subrounded garnets. | | | | | | | | | | |
| | | 25 to 30% garnet biotite beds, generally confined to lower 2.9 m of unit. | | | | | | | | | | |
| | | 5 to 7% quartz, locally developed as veins sub parallel to banding. | | | | | | | | | | |
| | | Trace pyrrhotite as locally developed flecks and blebs. | | | | | | | | | | |
| | | Moderately to well banded and foliated at 43 to 65 degrees | | | | | | | | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | 5% Brown phlogopite. 1 to 2% carbonate and quartz veins parallel to to foliation. 56.00 70.20 Rock RQD 95 to 100%. | | | | | | | | | |
| 70.20 | 72.35 | POTASSIC BASALT Fine grained brown with 25 to 30% booklets of phlogopite to 1 mm. 35 to 40% carbonate veins parallel to foliation, 1 to 5 mm. 70.20 72.35 Rock RQD 100%. | | | | | | | | | |
| 72.35 | 79.75 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT Fine grained grey green to brown. 55 to 60% fine grained grey, possibly silicified felsic fragments. Fragments 0.5 mm to 3.0 cm. Finer grained than matrix. Fragments have been stretched parallel to to foliation. 10 to 15% phlogopite in matrix. 1 to 2% quartz veins parallel to to foliation. Well foliated at 40 to 44 degrees to the core axis. 72.35 79.75 Rock RQD 100%. 79.60 79.75 Phlogopite rich layers possibly finely. May be base of fragmental unit or top of B unit. | | | | | | | | | |
| 79.75 | 87.30 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS Fine grained brown to green. Well foliated at 32 to 42 degrees to the core axis. 25 to 30% carbonate quartz veins 1 to 2 mm parallel to foliation. 40 to 45 fine grained brown phlogopite well developed in area of intense carb viens. Sharp upper and lower contacts. 79.75 87.30 Rock RQD 100%. | | | | | | | | | |
| 87.30 | 91.30 | INTRACRATERAL IRON FORMATION 2-4f. Well bedded fine to medium grained f beds 0.5 to 1 cm. 10 to 15% garnet to 1 mm. Up to 1% quartz veins to 2 cm. 87.30 91.30 Rock RQD 100%. 87.30 88.80 2-4f. 88.80 90.30 2-4f. 90.30 91.30 In e beds. 91.00 91.30 E beds to 3 cm. 10 to 20% garnet trace to 1% pyrrhotite. | 21001 | 87.30 | 88.80 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | | 21002 | 88.80 | 90.30 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | | 21003 | 90.30 | 91.30 | 1.00 | TR-1 | .74 | n/a | n/a | .74 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 91.30 | 109.30 | INTERMEDIATE TO MAFIC VOLCANICS Fine grained green. Poorly to moderately foliated at 10 to 23 degrees to the core axis. 1 to 2% quartz-carbonate veins to 10 cm. 2 to 3% albite quartz veins to 10 cm throughout. Locally vein margins altered. Trace chalcopyrite associated with albite quartz veins. 91.30 109.30 Rock RQD 100%. | | | | | | | | | |
| 109.30 | 114.10 | POTASSIC BASALT Fine grained brown, well developed foliation at 23 to 31 degrees to the core axis. 15 to 20% carbonate veins parallel to to foliation, 1 to 2 mm. 109.30 114.10 Rock RQD 100%. | | | | | | | | | |
| 114.10 | 115.30 | INTERMEDIATE IRON FORMATION 2-4ea. 35 to 45% green e beds containing 15 to 20% amorphous to anhedral garnet clusters locally surrounded by grunerite. Garnet clusters to 1 cm. 3 to 5% grunerite. 30 to 35% glassy blue quartz locally disrupting bedding. 3 to 5% pyrrhotite as fracture cleavage filling and surrounding garnets. Bedding 48 degrees to the core axis. Moderate developed fracture cleavage at 23 degrees to the core axis. 114.10 115.30 Rock RQD 100%. 114.10 115.60 2-4ea. | 21004 | 114.10 | 115.60 | 1.50 | 3-5 | 1.00 | n/a | n/a | 1.00 |
| 115.30 | 128.90 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE IRON FORMATION 50 to 60% f beds, 0.5 to 1.5 cm 15 to 25% garnet to 1 mm. 25 to 30% e beds 0.5 to 1.0 cm, 10 to 15% garnet to 2 mm, generally 3 to 5% grunerite alteration locally to 10%. Trace magnetite. 10 to 15% chert beds 0.5 to 1.0 cm. 1 to 2% quartz veins parallel to to fracture cleavage. Trace pyrrhotite in fracture cleavage. Well preserved bedding at 36 to 51 degrees to the core axis Poorly to moderately developed fracture cleavage at 44 to 53 degrees to the core axis. Minor amount of folding at 50 to 70 degrees to the core axis, left climbing folds. 115.30 128.90 Rock RQD 100%. 116.00 117.50 4fe. | 21005 | 116.00 | 117.50 | 1.50 | TR | .01 | n/a | .01 | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Trace pyrrhotite associated with e beds. 1% Carbonate veins parallel to fracture cleavage. 159.40 161.50 Rock RQD 100%. 159.50 161.00 4b3f. | 21020 | 159.50 | 161.00 | 1.50 | TR | .10 | n/a | n/a | .10 |
| 161.50 | 169.45 | GARNET-BICTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4f(ea). 65 to 70% f beds to 2.0 cm, 15 to 20% garnet to 2 mm. 20 to 25% ea beds poorly formed garnets to 1 mm surrounded by grunerite. 3 to 5% green e beds remnants of ea beds. 3 to 5% chert beds. 5 to 10% glassy blue quartz veins to 5 cm parallel fracture cleavage. Well preserved bedding at 52 to 58 degrees to the core axis Tight right limb folding at 55 degrees to the core axis. Moderate developed fracture cleavage at 55 degrees to the core axis. 1 to 2% carbonate veins parallel to fracture cleavage. 161.50 169.45 Rock RQD 100%. 162.50 164.00 4f(ea). 165.50 167.00 4f(ea). 168.50 169.50 4f(ea). | 21021 | 162.50 | 164.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | | 21022 | 165.50 | 167.00 | 1.50 | TR | .10 | n/a | n/a | .10 |
| | | | 21023 | 168.50 | 169.50 | 1.00 | TR | .10 | n/a | .05 | .07 |
| 169.45 | 170.70 | GARNET - AMPHIBOLE IRGN FORMATION Green and grey beds without garnets. Well bedded at 32 to 48 degrees to the core axis, 1 to 2 cm Tight folds at 41 degrees to the core axis. 165.50 170.70 Rock RQD 100%. | | | | | | | | | |
| 170.70 | 189.80 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4f(ea). 60 to 70% f beds 1 to 5 cm, 20 to 25% garnet to 2 mm. 10 to 15% ea beds, 1 to 2 cm, 5% mm sized garnets in matrix of grunerite. 5 to 10% e beds, 1 to 1.5 cm, 3 to 5% garnet to 1 mm locally as remnants of ea beds. 1% Magnetite associated with green e beds. 1 to 2% pyrrhotite associated with e and ea beds. 3 to 5% glassy blue quartz parallel to to bedding. Well preserved bedding at 45 to 58 degrees to the core axis No recognizable folding. 170.70 188.90 Rock RQD 100%. 174.50 176.00 4f(ea). | 21024 | 174.50 | 176.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--|--------|------|--------|-------|--------|---------|
| 177.50 | 179.00 | 4f(ea). | 21025 | 177.50 | 179.00 | 1.50 | TR-1 | .10 | n/a | n/a | .10 |
| 180.50 | 182.00 | 4f(ea). | 21026 | 180.50 | 182.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 183.50 | 185.00 | 4f(ea). | 21027 | 183.50 | 185.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 186.50 | 188.00 | 4f(ea). | 21028 | 186.50 | 188.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 188.00 | 189.50 | 4ea(b). | 21029 | 188.00 | 189.50 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 188.80 | 191.90 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / CHERT-MAGNETITE I.F. 4ea(b). 30 to 35% green e beds with 3 to 5% garnet to 2 mm. E beds as remnants within ea beds. 30 to 35% ea beds, 10 to 15% amorphous garnet to 3 mm in grunerite matrix. 10 to 15% chert beds to 1 cm. 5 to 10% magnetite as laminae and disseminated in e beds. 1 to 2% f beds typical. Trace to 1% pyrrhotite associated with ea and e beds. 2 to 3% quartz-carbonate veins parallel to fracture cleavage. Well preserved bedding at 50 degrees to the core axis. Intense right limb folding axial plane at 54 to 65 degrees to the core axis. Moderately developed fracture cleavage at 65 to 70 degrees to the core axis. 188.80 191.90 Rock RQD 100%. | 21030 | 189.50 | 191.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 189.50 | 191.00 | 4ea(b). | 25976 | 191.00 | 192.00 | 1.00 | TR-1 | .01 | n/a | .01 | .01 |
| 191.90 | 202.15 | GARNET - AMPHIBOLE IRON FORMATION 75 to 80% e beds with variable content of garnets from 2 to 35%, 1 to 2 mm. 5 to 10% f beds increasing in, Frequency toward the bottom of the unit. F beds 1 to 1.5 cm with abundant garnets. 5 to 8% grunerite alteration of e beds. Trace to 1% magnetite disseminated within e beds. 1 to 2% quartz veins to 5 cm barren. Well preserved bedding at 42 to 59 degrees to the core axis Right limb folds at 65 degrees to the core axis. Moderately developed fracture cleavage at 54 degrees to the core axis. Trace pyrrhotite. 191.90 202.15 Rock RQD 100%. | 199.40 | 200.60 | 4f 85 to 90% f 1 cm, 10 to 15% e beds. | | | | | | |
| 202.15 | 210.20 | GARNET - BIOTITE SCHIST | | | | | | | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 5 to 10% grunerite alteration of magnetite laminae and margins of beds. | | | | | | | | | |
| | | 60 to 65% chert beds grain to brown. | | | | | | | | | |
| 279.50 | 281.00 | 4b. | 21040 | 279.50 | 281.00 | 1.50 | 2-3 | 1.12 | n/a | n/a | 1.12 |
| 284.00 | 285.50 | 4b. | 21041 | 284.00 | 285.50 | 1.50 | TR | .44 | n/a | .49 | .47 |
| 287.00 | 288.50 | 4b. | 21042 | 287.00 | 288.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 290.00 | 291.50 | 4b. | 21043 | 290.00 | 291.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 293.00 | 294.50 | 4b. | 21044 | 293.00 | 294.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 296.00 | 297.50 | 4b. | 21045 | 296.00 | 297.50 | 1.50 | TR | .94 | n/a | n/a | .94 |
| 299.00 | 300.50 | 4b. | 21046 | 299.00 | 300.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 302.00 | 303.50 | 4b. | 21047 | 302.00 | 303.50 | 1.50 | TR | .40 | n/a | n/a | .40 |

304.45 316.45 SULFIDE FACIES IRON FORMATION

4ha.
20 to 25% graphite as laminae and beds in chert.
Associated with graphite is 15 to 20% pyrrhotite, forming a sulphide replacement texture.
pyrrhotite also as fracture filling 1 to 2%.
50 to 55% 4a, grunerite as laminae in chert.
4h Separated by 4a 0.5 to 1.25 metres.
Bedding in 4h poorly preserved.
Bedding 45 to 50 degrees to the core axis.
Well developed fracture cleavage at 17 to 25 degrees to the core axis.

304.55 316.45 Rock RQD 100%.

| | | | | | | | | | | | |
|--------|--------|--------|-------|--------|--------|------|-------|-----|-----|-----|-----|
| 305.00 | 306.50 | 4a. | 21048 | 305.00 | 306.50 | 1.50 | 3-5 | .01 | n/a | n/a | .01 |
| 306.50 | 308.00 | 4h. | 21049 | 306.50 | 308.00 | 1.50 | 25-30 | .01 | n/a | n/a | .01 |
| 308.00 | 309.50 | 4ah. | 21050 | 308.00 | 309.50 | 1.50 | 10-15 | .01 | n/a | .01 | .01 |
| 309.50 | 311.00 | 4ha. | 21051 | 309.50 | 311.00 | 1.50 | 15-20 | .01 | n/a | n/a | .01 |
| 311.00 | 312.50 | 4ha. | 21052 | 311.00 | 312.50 | 1.50 | 20-25 | .01 | n/a | n/a | .01 |
| 312.50 | 314.00 | 4ha. | 21053 | 312.50 | 314.00 | 1.50 | 15-20 | .15 | n/a | n/a | .15 |
| 314.00 | 315.50 | 4a(h). | 21054 | 314.00 | 315.50 | 1.50 | 5-10 | .01 | n/a | n/a | .01 |
| 315.50 | 316.45 | 4a(h). | 21055 | 315.50 | 316.45 | .95 | 5-10 | .15 | n/a | n/a | .15 |

316.45 325.00 CASALT

Grey green fairly soft may be weakly altered to talc/chlorite.
Weakly foliated at 45 degrees to the core axis.
fine to medium grained.

326.00 326.00 END OF HOLE

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH % Au g/t RERUN REJECT AVERAGE

HOLE CEMENTED AND CASING PULLED.

CORE STORED ON PROPERTY.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SpO Au g/t RERUN REJECT AVERAGE

4b(a).

Similar to 33.0 to 35.8, with 50 to 60% b beds, less than or equal to 1.0 cm, containing 20 to 25% magnetite disseminated.

25 to 30% magnetite poor chert beds.

B beds weakly to moderately gruneritized especially at contact with chert, where it occurs as 1 to 2 mm laminae. Up to 5% f beds, up to 6 mm wide moderately to heavily chloritized, with 1 to 2% pinhead garnets.

Well bedded at 49 to 52 degrees to the core axis.

Antiformal fold closure at 42.7 with axial plane 36 degrees to the core axis.

Rare right limb folds below 44.1 with axial plane approx 55 degrees to the core axis.

10 to 15% quartz veins less than or equal to 10 cm, cutting bedding at 58 to 76 degrees to the core axis. 1 to 3% pyrrhotite, locally to 5% as veinlets in quartz; also as locally developed sulphide replacement of magnetite, occasionally enclosing brecciated chert fragments.

38.50 45.65 Rock RQD 90 to 95%.

38.50 40.00 4b(a), quartz.

40.00 41.50 4b(a), quartz.

44.15 45.65 4b(a), quartz.

| | | | | | | | | |
|-------|-------|-------|------|-----|------|-----|-----|------|
| 18935 | 38.50 | 40.00 | 1.50 | 3-5 | 1.09 | n/a | n/a | 1.09 |
| 18936 | 40.00 | 41.50 | 1.50 | 1-2 | 2.31 | n/a | n/a | 2.31 |
| 18937 | 44.15 | 45.65 | 1.50 | 1-2 | 1.23 | n/a | n/a | 1.23 |

45.65 54.15 GARNET-BICTITE SCHIST / CHERT-MAGNETITE I.F.

4f(b).

60 to 70% f beds less than or equal to 10 cm, locally laminated, with 20 to 25% up to 1 to 2 mm pinhead garnets. Beds locally weakly chloritized.

10 to 15% b beds up to 1.3 cm moderately to locally heavily gruneritized; magnetite occasionally produces a mottled texture.

3 to 5% magnetite poor chert beds less than or equal to 1.0 cm.

Well bedded at 51 to 63 degrees to the core axis.

Tight antiformal fold closure at 47.25, with axial plane 54 degrees to the core axis.

Downhole occasional broad, open left limb folds with axial plane 62 to 63 degrees to the core axis.

Small, tight right limb folds from 50.1 to 50.85, with axial plane 47 degrees to the core axis.

Folding style appears to be left limb.

3 to 5% quartz as locally developed veins up to 3 cm with associated trace to 1% pyrrhotite blebs.

45.65 54.15 Rock RQD 100%.

47.00 48.50 4f(b), minor quartz.

51.50 53.00 4f(b).

| | | | | | | | | |
|-------|-------|-------|------|----|-----|-----|-----|-----|
| 18938 | 47.00 | 48.50 | 1.50 | TR | .68 | n/a | n/a | .68 |
| 18939 | 51.50 | 53.00 | 1.50 | TR | .55 | n/a | n/a | .55 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SpO Au g/t RERUN REJECT AVERAGE

chloritized, with 3 to 5% 2 to 4 mm garnets. Beds concentrated over 30 to 60 cm lengths.
10 to 15% chert beds less than or equal to 1.0 cm developed throughout unit.
Well bedded at 52 degrees to the core axis, decreasing gradually downhole to 41 to 43 degrees to the core axis.
Synformal fold closure visible at 65.5 ; axial plane 61 degrees to the core axis.
Considerable folding throughout unit; dominantly right limb, broad, open with axial plane 43 to 59 degrees to the core axis.
Local poorly developed fracture cleavage visible, carbonate filled at approx 63 to 65 degrees to the core axis.
5 to 8% quartz-carbonate veins locally developed, up to 15 cm wide carrying trace pyrrhotite specks and stringers ; rare slight bedding disruption associated with only the largest of the veins.
NOTE: this is not a typical Kea environment where we would expect to find mineralisation (grunerite content very high).

63.00 74.20 Rock RQD 95 to 100%.
63.00 64.50 Kea(f), quartz-carbonate veinlets.
64.50 66.00 Kea(f), quartz-carbonate veinlets.
66.00 67.50 Kea.
67.50 69.00 Kea(f), quartz veins.
69.00 70.50 Kea(f), carbonate-quartz stringers.
70.50 72.00 Kea(f), quartz veins.
72.00 73.50 Kea(f), carbonate-quartz stringers.
73.50 75.00 Ke(ba), quartz-carbonate.
74.60 82.20 Similar to main text but f beds up to 10%.
Quartz-carbonate veins up to 10% 74.60 82.20
rock RQD 95 to 100%.

And 0.5 to 1.0 cm wide but causing more bedding disruption than uphole. Amphibole beds not as heavily gruneritized which appears more favourable as a mineralization host. 1 to 3% pyrrhotite, locally to 5%, as stringers in quartz over this interval. Fracture set at 90 degrees to bedding, carbonate filled with 1.5 cm sinistral offset.

75.00 76.50 Kea, quartz.
76.50 78.00 Kea(f), carbonate-quartz.
78.00 79.50 Kea, quartz.
79.50 81.00 Keaf, quartz-carbonate.
81.00 82.50 Kea, quartz, silicified.
82.20 87.00 Similar to main text but b and f beds increasing toward lower contact. B beds moderately to heavily gruneritized. Quartz-carbonate content decreases to less than or equal to 5% over this interval

| | | | | | | | | |
|-------|-------|-------|------|------|-------|-------|-----|-------|
| 18941 | 63.00 | 64.50 | 1.50 | TR-1 | 28.28 | 27.14 | n/a | 27.71 |
| 25988 | 64.50 | 66.00 | 1.50 | TR-1 | 1.03 | n/a | n/a | 1.03 |
| 18942 | 66.00 | 67.50 | 1.50 | TR-1 | .45 | n/a | .03 | .64 |
| 25989 | 67.50 | 69.00 | 1.50 | 2-4 | 1.51 | n/a | n/a | 1.51 |
| 18943 | 69.00 | 70.50 | 1.50 | TR | .80 | n/a | n/a | .80 |
| 25990 | 70.50 | 72.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 18944 | 72.00 | 73.50 | 1.50 | TR-1 | .74 | n/a | n/a | .74 |
| 18945 | 73.50 | 75.00 | 1.50 | TR-1 | .30 | n/a | n/a | .30 |
| 18946 | 75.00 | 76.50 | 1.50 | 1-3 | 12.80 | 12.91 | n/a | 12.90 |
| 18947 | 76.50 | 78.00 | 1.50 | 1-2 | 1.04 | n/a | n/a | 1.04 |
| 18948 | 78.00 | 79.50 | 1.50 | 1-3 | 3.00 | n/a | n/a | 3.00 |
| 18949 | 79.50 | 81.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 18950 | 81.00 | 82.50 | 1.50 | 3-5 | .96 | n/a | n/a | .96 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | associated with trace pyrrhotite. | | | | | | | | | |
| | | 82.21 87.00 Rock RQD 100%. | | | | | | | | | |
| | | 82.50 84.00 kaa, quartz. | 18951 | 82.50 | 84.00 | 1.50 | TR-1 | .50 | n/a | .25 | .37 |
| | | 84.00 85.50 kfe(b), quartz-carbonate. | 18952 | 84.00 | 85.50 | 1.50 | TR | 1.35 | n/a | n/a | 1.35 |
| | | 85.50 87.00 k:(fb), quartz-carbonate. | 18953 | 85.50 | 87.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 87.00 | 90.10 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. kf(b). Similar to 45.65, with f beds less than or equal to 3.0 cm. 15 to 20% b beds up to 0.5 cm, moderately gruneritized. Well bedded at 40 to 50 degrees to the core axis. 3 to 5% quartz veins 1 to 4 cm wide, cutting bedding at 61 to 79 degrees to the core axis. Veins carry trace to 1% pyrrhotite blebs 87.00 88.50 kf(b), quartz veins. 87.01 90.10 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 88.50 90.00 kf(b), quartz veins. | 18955 | 88.50 | 90.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| | | 90.00 91.50 kbaf. | 18956 | 90.00 | 91.50 | 1.50 | TR-1 | .15 | n/a | n/a | .15 |
| 93.10 | 99.60 | CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST kbaf. 60 to 70% b beds as broad bands up to 40 cm wide, generally very heavily gruneritized to produce a mottled magnetite in grunerite texture. 10 to 15% f beds, less than or equal to 1.0 cm, but occasionally organized into bands up to 10.0 cm. Beds moderately gruneritized, and more heavily so at bed margins Rare magnetite poor chert beds up to 4 cm wide. Well bedded at 40 to 50 degrees to the core axis. 15 to 20% quartz as quartz - pyrrhotite vein systems up to 15 cm wide. Occasionally produce bedding disruption; contain 3 to 5%, locally 5 to 8. Pyrrhotite as veinlets and stringers in quartz as well as occasional sulphide cement and sulphide replacement of magnetite resulting in frescated chert fragments in sulphide matrix texture. Rare 10 cm bands of kf(b) material as noted in 87.0. 90.10 99.60 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 91.50 93.00 kbaf, quartz veins. | 18957 | 91.50 | 93.00 | 1.50 | 5-8 | .45 | .63 | n/a | .54 |
| | | 92.36 93.95 Similar to main text but with 25 to 30% mafic wedges 10 to 40 cm wide (B-3 material with considerable carbonate veining parallel to foliation at 44 to 49 degrees to the core axis). | | | | | | | | | |
| | | 93.00 94.50 kbaf, mafic wedge. | 18958 | 93.00 | 94.50 | 1.50 | 3-5 | 1.56 | n/a | n/a | 1.56 |
| | | 94.50 96.00 Mafic wedge, carbonate-quartz veins. | 18959 | 94.50 | 96.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| | | 96.00 97.50 kbaf, quartz veins. | 18960 | 96.00 | 97.50 | 1.50 | 5-10 | 7.48 | 7.48 | n/a | 7.48 |
| | | 97.50 98.50 kbaf, large quartz vein. | 18961 | 97.50 | 98.50 | 1.00 | 2-4 | 2.48 | n/a | n/a | 2.48 |
| | | 99.50 99.60 kbaf, quartz veins. | 18962 | 99.50 | 99.60 | 1.10 | 5-10 | 3.54 | 2.71 | n/a | 3.12 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUSS46
PAGE NO: 8

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORE: 6356.5 7231.8 SURVEYED: YES

PLACER DOME INC.

LOCATION: L10+50N 3+50W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5547

PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1973)

FOOT LOCATION:

SECTION:

AZIMUTH: 48.9

LENGTH: 314.0

ELEVATION: 5302.5

LOGGED BY: R. STEWART / N. BECKETT

DIP: -52.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JAN. 18 - JAN. 22, 1988

STARTED: JAN. 15, 1988

COMPLETED: JAN. 21, 1988

CLAIM NO:

PURPOSE: TEST 1 MAIN ZONE AT 5090 m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 32.00 | | -52.5 | 180.00 | | -51.0 |
| 60.00 | | -53.0 | 210.00 | | -47.0 |
| 90.00 | | -52.0 | 240.00 | | -46.0 |
| 120.00 | | -51.0 | 270.00 | | -44.5 |
| 150.00 | | -51.5 | 300.00 | | -42.5 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

.00 29.00 OVERBURDEN
Boulders, sand and gravel.

29.00 125.00 INTERMEDIATE TO MAFIC VOLCANICS
Typical fine grained medium green, hornblende plagioclase assemblage with compositional variations as described below.
Well developed foliation, at 50 degrees to the core axis.
Up to 5% quartz-carbonate veins, parallel to foliation.
Well developed foliation at 50 degrees to the core axis.
Blocky ground. 1 medium lost core from 32.0 to 35.0.
Up to 15% quartz chert bands.
Foliation at 50 degrees to the core axis.
Up to 5% quartz veins parallel to foliation at 55 to 60 degrees to the core axis.
Weak compositional banding parallel to foliation at 70 degrees to the core axis.
Well developed foliation at 55 to 65 degrees to the core axis.
Foliation at 40 degrees to the core axis.
2% 1 Pyrrhotite stringers.
Foliation well developed at 50 degrees to the core axis.
29.00 40.75 Rock RQD 0%.
29.00 40.75 8. Weathered, blocky fine grained to medium grained & volc. Composed of hornblende > phlogopite. Phlogopite occurs as discrete seams and threads parallel to foliation.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

149.0 medium.

Ea beds characterized by amorphous clusters of subhedral garnets supported weakly gruneritized green amphibole. Local silicification associated with 2% disseminated pyrrhotite as described in samples.

Bedding variable from 25 to 50 degrees to the core axis. Common open minor folding with axial plane at 65 to 70 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|--|-------|--------|--------|------|--------|------|-----|------|------|
| 143.75 | 145.25 | 4fea. | 19243 | 143.75 | 145.25 | 1.50 | 0 | 1.26 | n/a | n/a | 1.26 |
| 145.25 | 146.75 | 4fea. | 19244 | 145.25 | 146.75 | 1.50 | TR-0.5 | 1.54 | n/a | n/a | 1.54 |
| 146.75 | 148.25 | 4fea. | 19245 | 146.75 | 148.25 | 1.50 | 1 | .01 | n/a | n/a | .01 |
| 148.25 | 149.75 | 4fea. | 19246 | 148.25 | 149.75 | 1.50 | TR-0.5 | .02 | n/a | n/a | .02 |
| 149.75 | 151.25 | 4fea. | 19247 | 149.75 | 151.25 | 1.50 | TR-0.5 | .20 | n/a | n/a | .20 |
| 151.25 | 156.65 | 4ea(f) as in text, but with ea > f beds. | | | | | | | | | |
| 151.25 | 152.75 | 4ea(f). | 19248 | 151.25 | 152.75 | 1.50 | 2-3 | .02 | n/a | n/a | .02 |
| 152.75 | 154.25 | 4ea(f). | 19249 | 152.75 | 154.25 | 1.50 | 1-2 | 3.04 | n/a | n/a | 3.04 |
| 154.25 | 155.50 | 4ea(f). | 19250 | 154.25 | 155.50 | 1.25 | 1-2 | 2.51 | n/a | n/a | 2.51 |
| 155.50 | 156.65 | 4ea(f). | 19251 | 155.50 | 156.65 | 1.15 | 1 | 2.14 | n/a | 1.20 | 1.67 |

156.65 259.00 INTERMEDIATE TO MAFIC VOLCANICS

B.

Typical compositionally and texturally variable unit composed predominantly of fine grained dark green hornblende plagioclase with up to 5% narrow quartz-carbonate veins and veinlets.

Foliation well developed at 40 to 50 degrees to the core axis.

10 to 15% pinhead sized subhedral garnets associated with up to 1% pyrrhotite stringers from 159.25 to 162.40.

Foliation well developed at 60 degrees to the core axis decreasing to 45 degrees to the core axis at 164.10.

156.65 164.10 3. Highly altered volcanic, composed of medium grained phlogopite rich seams compositional banding with mm scale quartz-carbonate veins.

156.65 164.10 Rock RQF 65%.

164.10 174.40 Rock RQF 55%.

154.10 170.90 B volc. As in text.

170.90 174.40 2-4e. Poorly developed 2-4e composed of 30% gruneritized ea beds with 15% laminated chert plus or minus minor magnetite, interbedded with 30% fine grained dark green hornblende 2 to locally 5% disseminated pyrrhotite associated with ea beds and recrystallized quartz. Bedding variable from 15 to 70 degrees to the core axis. Foliation at 45 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|-------|-------|--------|--------|------|-----|-----|-----|-----|-----|
| 170.90 | 172.15 | 2-4e. | 19252 | 170.90 | 172.15 | 1.25 | 1-2 | .01 | n/a | n/a | .01 |
|--------|--------|-------|-------|--------|--------|------|-----|-----|-----|-----|-----|

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUM REJECT AVERAGE

grunerite matrix.
15 to 20% green e beds as remnants of ea beds and rarely as whole beds.
15 to 20% chert beds to 1.5 cm with 2 to 3% gruneritized magnetite laminae.
1 to 5% magnetite as mottled remnants in chert and e beds.
5 to 10% quartz locally disrupting bedding 149.16 to 150.0.
1 to 2% carbonate veins 3 to 5 mm generally parallel to bedding.
Well preserved bedding at 50 to 70 degrees to the core axis
Poorly developed fracture cleavage at 55 to 75 degrees to the core axis.
Mostly left limb folding at 65 to 75 degrees to the core axis.

149.16 166.00 Rock RQD 80 to 85%.

150.00 151.00 4ea 1 bleb visible gold.

151.00 152.00 4ea silicified.

152.00 153.00 4ea silicified.

153.00 154.00 4ea silicified.

154.00 155.00 4ea silicified.

155.00 156.00 4ea silicified.

156.00 157.00 4ea.

157.00 158.00 4ea.

158.00 159.00 4ea.

159.00 160.00 4ea.

160.00 161.00 4ea.

161.00 162.00 4ea.

162.00 163.00 4ea.

163.00 164.00 4ea.

164.00 165.00 4ea.

165.00 166.00 4ea.

166.00 167.00 4ea.

167.00 168.00 4ea.

168.00 169.00 4ea.

169.00 170.00 4ea.

170.00 171.00 4ea.

171.00 172.00 4ea, 4fea.

| | | | | | | | | |
|-------|--------|--------|------|-------|-------|-------|-----|-------|
| 21072 | 150.00 | 151.00 | 1.00 | 5-10 | 14.31 | 12.33 | n/a | 13.32 |
| 21073 | 151.00 | 152.00 | 1.00 | 5-10 | 9.54 | 4.67 | n/a | 7.10 |
| 21074 | 152.00 | 153.00 | 1.00 | 5-10 | 3.69 | 0.01 | n/a | 5.85 |
| 21075 | 153.00 | 154.00 | 1.00 | 5-10 | 5.26 | 1.06 | n/a | 3.56 |
| 21076 | 154.00 | 155.00 | 1.00 | 10-15 | 6.00 | 4.09 | n/a | 5.04 |
| 21077 | 155.00 | 156.00 | 1.00 | 1-2 | .39 | n/a | n/a | .39 |
| 21078 | 156.00 | 157.00 | 1.00 | TR-1 | 10.29 | n/a | n/a | 10.29 |
| 21079 | 157.00 | 158.00 | 1.00 | TR-1 | 2.90 | n/a | n/a | 2.90 |
| 21080 | 158.00 | 159.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 21081 | 159.00 | 160.00 | 1.00 | TR | .72 | n/a | n/a | .93 |
| 21082 | 160.00 | 161.00 | 1.00 | TR-1 | .30 | n/a | n/a | .30 |
| 21083 | 161.00 | 162.00 | 1.00 | TR | .74 | n/a | n/a | .74 |
| 21084 | 162.00 | 163.00 | 1.00 | TR | 1.12 | n/a | n/a | 1.12 |
| 21085 | 163.00 | 164.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 21086 | 164.00 | 165.00 | 1.00 | TR | .19 | n/a | n/a | .19 |
| 21087 | 165.00 | 166.00 | 1.00 | TR | .15 | n/a | n/a | .15 |
| 21088 | 166.00 | 167.00 | 1.00 | TR | 2.76 | n/a | n/a | 2.76 |
| 21089 | 167.00 | 168.00 | 1.00 | TR | .48 | n/a | n/a | .48 |
| 21090 | 168.00 | 169.00 | 1.00 | TR | .15 | n/a | n/a | .19 |
| 21091 | 169.00 | 170.00 | 1.00 | TR | .10 | n/a | n/a | .10 |
| 21092 | 170.00 | 171.00 | 1.00 | TR | .19 | n/a | n/a | .19 |
| 21093 | 171.00 | 172.00 | 1.00 | TR | .01 | n/a | n/a | .01 |

171.65 177.50 GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.

10 to 35 f beds to 2 cm, 10 to 15% garnet to 3.0 mm.

15 to 20% ea beds poorly formed, 5% garnet to 2 mm in grunerite matrix.

35 to 40% chert beds to 2 cm.

2 to 3% magnetite as mottled laminae in chert beds and unaltered laminae.

2 to 3% e beds green, garnet to 2 mm.

1% Carbonate veins parallel to fracture cleavage.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | 4Po | Au g/t | RERUH | REJECT | AVERAGE |
|--|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| Left limb folding axial plane 53 to 61 degrees to the core axis. | | | | | | | | | | | |
| 205.45 | 213.85 | Rock RQD 100%. | | | | | | | | | |
| 205.00 | 207.50 | 4fe(a). | 21102 | 206.00 | 207.50 | 1.50 | TR | 1.50 | n/a | n/a | 1.50 |
| 205.00 | 210.50 | 4fe(a). | 21103 | 209.00 | 210.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 212.00 | 213.50 | 4fe(a). | 21104 | 212.00 | 213.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 213.50 | 215.00 | 4bea. | 21105 | 213.50 | 215.00 | 1.50 | TR | .74 | n/a | n/a | .74 |
| 213.85 | 228.35 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4G to 45% b beds to 1.0 cm, 10 to 15% magnetite laminae, 3 to 5% grunerite alteration of magnetite. 30 to 35% e beds to 1.0 cm 5 to 8% garnet to 2 mm, 5 to 10% grunerite alteration locally forming ea beds. 5 to 10% f beds randomly throughout. 5 to 8% qtz/po veins 1 to 2% pyrrhotite throughout. 1 to 2% carbonate veins parallel to fracture cleavage. Well preserved bedding at 40 to 60 degrees to the core axis Moderately to well developed fracture cleavage at 60 to 70 degrees to the core axis. Left limb folding 47 to 60 degrees to the core axis. | | | | | | | | | |
| 213.85 | 228.35 | Rock RQD 80%. | | | | | | | | | |
| 215.00 | 216.50 | 4bea,qtz/po. | 21106 | 215.00 | 216.50 | 1.50 | 3-5 | 3.66 | n/a | n/a | 3.66 |
| 216.50 | 216.00 | 4bea,qtz/po. | 21107 | 216.50 | 218.00 | 1.50 | 3-5 | 1.15 | n/a | n/a | 1.15 |
| 218.00 | 219.50 | 4bea. | 21108 | 218.00 | 219.50 | 1.50 | TR-1 | .05 | n/a | .24 | .15 |
| 219.50 | 221.00 | 4bea. | 21109 | 219.50 | 221.00 | 1.50 | TR-1 | .70 | n/a | n/a | .70 |
| 221.00 | 222.50 | 4bea. | 21110 | 221.00 | 222.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 222.50 | 224.00 | 4eb. | 21111 | 222.50 | 224.00 | 1.50 | TR-1 | .39 | n/a | n/a | .39 |
| 224.00 | 225.50 | 4eb. | 21112 | 224.00 | 225.50 | 1.50 | 1-2 | .94 | n/a | n/a | .94 |
| 225.50 | 227.00 | 4eab, arenopyrite, qtz/po. | 21113 | 225.50 | 227.00 | 1.50 | 1-2 | .30 | n/a | n/a | .30 |
| 227.00 | 228.50 | 4eab, qtz/po. | 21114 | 227.00 | 228.50 | 1.50 | 2-3 | 2.06 | n/a | n/a | 2.06 |
| 228.35 | 239.45 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba(e). 35 to 40% chert beds to 2 cm. 25 to 30% magnetite as thin beds and laminae. 15 to 20 grunerite as alteration of magnetite. 5 to 10% e beds green to 0.5 cm. 1 to 2% quartz veins with trace to 1% pyrrhotite associated Mod-erately to well preserved bedding at 40 to 50 degrees to the core axis. Well developed fracture cleavage at 46 to 52 degrees to the core axis. Left limb folding axial plane 46 degrees to the core axis. | | | | | | | | | |
| 228.35 | 249.45 | Rock RQD 80 to 90%. | | | | | | | | | |
| 230.00 | 231.50 | 4ba(e). | 21115 | 230.00 | 231.50 | 1.50 | TR | 1.22 | n/a | n/a | 1.22 |
| 233.00 | 234.50 | 4ba(e). | 21116 | 233.00 | 234.50 | 1.50 | TR | .15 | n/a | n/a | .15 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUSSAB
PAGE NO: 8

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Av g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | 235.00 | 236.50 4ba(e). | 21117 | 235.00 | 236.50 | 1.50 | TR | .64 | n/a | .69 | .67 |
| 239.45 | 241.95 | GARNET - BIOTITE SCHIST 85 to 90% f beds 0.5 to 3.0 cm, 20 to 25% garnet to 2 mm. 10 to 15% chert beds to 2.0 cm. Well preserved bedding at 43 to 49 degrees to the core axis 239.45 241.95 Rock RQD 60 to 70%. | | | | | | | | | |
| 241.95 | 245.65 | CHERT-MAGNETITE I.F. / CHERT-GFUMERITE I.F. Similar to 228.35 to 249.45 without the e beds. Moderately to well preserved bedding at 54 to 60 degrees to the core axis. 2 to 3% carbonate filling fractures parallel to core axis. 241.95 245.65 Rock RQD 90 to 100%. | | | | | | | | | |
| | 242.00 | 243.50 4ba. | 21118 | 242.00 | 243.50 | 1.50 | TR-1 | .10 | n/a | n/a | .10 |
| | 243.50 | 245.00 4ba. | 21119 | 243.50 | 245.00 | 1.50 | 1 | .67 | n/a | n/a | .67 |
| | 245.00 | 245.70 4ba. | 21120 | 245.00 | 245.70 | .70 | 10-15 | .77 | n/a | 1.10 | .93 |

245.65 260.00 BASALT
Pale green to grey well foliated at 43 to 70 degrees to the core axis.
Phlogopite and chlorite developed parallel to foliation.
2 to 3% carbonate veins parallel to foliation to 3 cm.

245.65 250.50 Rock RQD 0% breaking 15 to 20 degrees to the core axis and parallel to foliation.
250.50 260.00 Rock RQD 30 to 100%.

260.00 260.00 END OF HOLE

CORE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORR: 6832.2 7163.1 SURVEYED: YES

PLACER DOME INC.

LOCATION: 14450N 0490W GRID: EAST

DIAMOND DRILL RECORD

POST LOCATION:

HOLE NO: M5548
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO
SECTION:

AZIMUTH: 49.3

LENGTH: 154.5

ELEVATION: 5302.5

LOGGED BY: M. BECKETT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JAN. 21, 1988 - JAN. 24, 1988

STARTED: JAN. 20, 1988

COMPLETED: JAN. 24, 1988

CLAIM NO:

PURPOSE: WILDCAT HOLE ON PQ LIMB-5250 m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -40.0 | 120.00 | | -35.0 |
| 60.00 | | -38.0 | 150.00 | | -35.0 |
| 90.00 | | -36.0 | 154.50 | | -34.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | REUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| .00 | 21.70 | OVERBURDEN Sand and boulders. | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 21.70 | 29.15 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

A VOLCANIC.

Typical fine grained to medium grained felsic siliceous volcanic unit with compositional banding of quartz - feldspar and quartz - sericitic subunits. Banding on 3 mm to 1 cm scale.

Local sections up to 5 mm of coarse grained 2 to 3 mm white mica.

Kare less than or equal to 1.0 cm bands of white quartz; display weak boudinaged.

Well foliated and banded at 60 degrees to the core axis, decreasing downhole to 54 degrees to the core axis.

1 to 2% pyrite as local veinlets and occasional replacement of A VOLC material. Locally slightly rusty and rarely with associated 1 to 2 mm vuggy cavities.

Core moderately blocky with very blocky and gravelly sections over 40 to 50 cm.

Silver dollar core occasionally developed.

21.70 29.15 Rock RQD 60 to 70%.

22.00 22.50 A, 2 to 4% pyrite.

| | | | | | | | | |
|-------|-------|-------|-----|---|-----|-----|-----|-----|
| 18983 | 22.00 | 22.50 | .50 | 0 | .01 | n/a | .01 | .01 |
|-------|-------|-------|-----|---|-----|-----|-----|-----|

| | | | | | | | | | | | |
|-------|-------|---------------------------------|--|--|--|--|--|--|--|--|--|
| 29.15 | 43.00 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
|-------|-------|---------------------------------|--|--|--|--|--|--|--|--|--|

B VOLC.

Upper contact sharp.

Typical fine grained to medium grained medium green

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | feldspar - amphibole volcanic package. Well foliated at 45 to 57 degrees to the core axis. 1 to 3% carbonate as stringers less than or equal to 3 mm parallel to foliation ; occasionally accompanied by 1;2 mm bleached haloes. 2 to 3% 2-4e units locally developed over 30 to 50 cm containing trace to 1% pyrrhotite locally developed as replacement of amphibole. 29.15 30.00 2-4e unit associated with 5 to 8% very rusty pyrite infilling vugs and 29.15 31.50 rock RQD 70%. | | | | | | | | | |
| | | 1 to 3% rusty pyrrhotite as amphibole replacement. 29.15 30.00 2-4e, quartz-carbonate, 5 to 8% pyrite. 31.50 39.51 Rock RQD 30 to 35%. | 18984 | 29.15 | 30.00 | .85 | 1-3 | .01 | n/a | n/a | .01 |
| | | 31.50 39.50 8-3 similar to text but with 10 to 15% medium grained phlogopite throughout. Unit very blocky with gravelly sections over 20 to 50 cm ; very carbonate rich and relatively chlorite poor ; also garnetiferous from 35.0 to 36.05 with trace pyrrhotite flecks. 35.00 36.05 2-4e, carbonate rich. 33.51 43.00 Rock RQD 70 to 75%. | 18985 | 35.00 | 36.05 | 1.05 | TR | 11.43 | 12.16 | n/a | 11.00 |
| | | 40.00 41.80 8-3 as in 31.5;39.5. 41.80 43.00 2-4e as in 29.15;30.0 contains 1 to 3% pyrrhotite as veinlets and stringers associated with 5 to 10% quartz-carbonate veins less than or equal to 8 mm. | | | | | | | | | |
| | | 41.80 43.00 2-4e, quartz-carbonate veins, 1 to 2% pyrite. | 18986 | 41.80 | 43.00 | 1.20 | 1-3 | 3.60 | n/a | n/a | 3.60 |
| 43.00 | 48.60 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS 3-8. 60 to 70% medium grained phlogopite intermixed with 10 to 15% green B volc material. 10 to 15% carbonate generally disseminated, but locally as veinlets up to 9 mm parallel to foliation. Well foliated at 53 degrees to the core axis, increasing downhole to 66 degrees to the core axis. Unit blocky and very chloritic from 44.2 to 45.2 ; core friable. 43.00 48.60 Rock RQD 75%. | | | | | | | | | |
| | | 46.80 47.35 2-4e poorly developed, carrying 5 to 10% quartz-carbonate veins with mild bedding disruption associated with 5 to 7% pyrrhotite stringers and moderately developed replacement of amphibole. 46.80 47.35 2-4e, quartz-carbonate veins. | 18987 | 46.80 | 47.35 | .55 | 5-7 | 2.80 | n/a | n/a | 2.80 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| 48.60 | 51.60 | GARNET - BIOTITE SCHIST 4f. 70 to 80% laminated f beds in bands up to 80 cm wide, supporting 10 to 15% < 1 to 2 mm garnets. Rare amphibole beds 3 to 6 mm wide associated with 1 to 2% grunerite laminae. 5 to 10% carbonate as stringers and threads parallel to bedding in f beds ; occasionally cut bedding at 90 degrees to bedding. Well bedded and foliated at 51 to 60 degrees to the core axis. 1.0 cm quartz - pyrite vein at 51.16 to 51.17 ; 1 to 2 mm solution cavities visible. Considerable breakage parallel to bedding planes; silver dollar core developed over 10 to 35 cm lengths. Broken surfaces very chloritic. 48.60 51.60 Rock RQD 5 to 10%. 49.50 50.00 mafic wedge of B material as in 29.15. | | | | | | | | | |
| 51.60 | 55.40 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. 45 to 50% ea beds, .6 to 2.0 cm, moderately to locally very heavily gruneritized, with 15 to 20% 4 mm to 2.0 cm subhedral to amorphous garnets ; poorly gruneritized amphibole beds contain rare garnets. 10 to 15% magnetite poor chert beds less than or equal to 8 mm. 5 to 10% f beds 1 to 2 cm, weakly chloritized, with 2 to 4% 1 to 3 mm rounded garnets. Well bedded at 48 to 68 degrees to the core axis. 25 to 30% blue quartz as vein systems 10 to 40 cm wide causing moderate bedding disruption. 3 to 5% pyrrhotite as sulphide replacement of amphibole and rarely as stringers in quartz. 1 to 2% pyrite, locally developed as veinlets and rare < 1 mm cubes associated with occasional solution cavities up to 3 mm diameter. Considerable folding into antiform-synform pairs with axial plane 45 to 56 degrees to the core axis. Well developed from upper contact to 52.9. Broad, open left limb fold at 55.0 to 55.2 with axial plane 50 degrees to the core axis. 51.60 55.40 Rock RQD 95 to 100%. 51.60 53.10 4ea, rare quartz veins. 53.10 54.60 4ea, silicified. 54.60 55.40 4ea, quartz veins. | 18988 | 51.60 | 53.10 | 1.50 | TR-1 | 1.50 | n/a | n/a | 1.50 |
| | | | 18989 | 53.10 | 54.60 | 1.50 | 3-5 | 6.55 | 8.89 | n/a | 7.72 |
| | | | 18990 | 54.60 | 55.40 | .80 | 5-7 | 10.04 | 12.92 | n/a | 11.40 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | Similar to 74.95, but with 10 to 15% f beds throughout unit; beds less than or equal to 1.0 cm (although locally as a 40 cm band from 88.1 to 88.5). | | | | | | | | | |
| | | 30 to 35% blue quartz, as veins 3 mm to 8 cm, sub parallel to bedding. Associated with 1 to 3% pyrrhotite as 1 to 5 mm blebs in quartz and as occasional sulphide replacement of magnetite adjacent to quartz veins. Veining is often so intense that bedding is disrupted over 20 to 30 cm sections. | | | | | | | | | |
| | | Moderately bedded at 57 to 67 degrees to the core axis, increasing downhole to 74 degrees to the core axis below 88.5. | | | | | | | | | |
| | | Local poorly developed texture of mottled magnetite in grunerite. | | | | | | | | | |
| | | 83.90 91.90 Rock RQD 100%. | | | | | | | | | |
| | | 83.90 85.40 4b(af), quartz veins. | 20052 | 83.90 | 85.40 | 1.50 | TR-1 | 1.50 | n/a | 1.55 | 1.57 |
| | | 85.40 86.90 4b(fa), intense quartz veining. | 20053 | 85.40 | 86.90 | 1.50 | 1-3 | .76 | n/a | n/a | .76 |
| | | 86.90 88.40 4b(fa), intense quartz veining. | 20054 | 86.90 | 88.40 | 1.50 | 2-4 | 1.22 | n/a | n/a | 1.22 |
| | | 88.40 89.90 4b(af). | 20055 | 88.40 | 89.90 | 1.50 | TR-1 | .19 | n/a | n/a | .19 |
| | | 89.90 91.20 4b as in 74.95; well bedded at 54 degrees to the core axis. | | | | | | | | | |
| | | 89.90 91.40 4ba(f), quartz veins. | 20056 | 89.90 | 91.40 | 1.50 | 1-2 | .85 | n/a | n/a | .85 |
| 91.90 | 94.30 | INTERMEDIATE TO MAFC VOLCANICS B VOLCANICS. Similar to 29.15, except that amphibole content is much greater than in unit at 29.15. Amphibole appears to have a blue cast; perhaps an alkali amphibole (crossite series) 10 to 15% biotite as local replacement of amphibole. Well foliated at 67 degrees to the core axis, decreasing downhole to 40 degrees to the core axis at lower contact. 2 to 4% carbonate stringers sub parallel to foliation; up to 8 mm wide. 91.90 94.30 Rock RQD 100%. | | | | | | | | | |
| 94.30 | 97.90 | CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4baf. Similar to 83.9. Well bedded at 61 to 69 degrees to the core axis. 96.07 Antiformal fold closure, tight, isoclinal with axial plane 82 degrees to the core axis. 97.4 Synformal fold closure, broad, open with axial plane 59 degrees to the core axis. Less than or equal to 5% quartz-carbonate veins locally developed; barren. 94.30 97.90 Rock RQD 100%. | | | | | | | | | |
| | | 94.30 95.80 4baf, rare quartz veins. | 20057 | 94.30 | 95.80 | 1.50 | 0 | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH S% Au g/t RERUN REJECT AVERAGE

Similar to 51.6, but with 10 to 15% f beds locally developed, with 3 to 5% 2 to 4 mm rounded garnets. Moderately to well bedded, but variable at 39 to 60 degrees to the core axis, although generally 44 to 57 degrees to the core axis.

20 to 25% blue quartz, generally as 1 to 6 cm veins sub parallel to bedding, but occasionally as silicified zones over 10 to 40 cm with associated moderate to severe bedding disruption.

Quartz veins contain trace to 1% pyrrhotite blebs and specks, while silicified zones are associated with 1 to 2% pyrrhotite as a very poorly developed sulphide cement.

Left limb fold at 114.5 to 114.7 with axial plane 49 degrees to the core axis. Fold broad, open.

Core blocky, chloritic from 109.0 to 109.2.

106.80 116.45 Rock RQD 90 to 95% overall.

106.80 108.30 4eaf, carbonate-quartz.

108.30 109.80 4eaf, quartz-carbonate veins.

109.80 111.30 4eaf.

111.30 112.80 4ea(b), quartz veins, silicified.

112.80 114.30 4eaf, silicified.

114.30 115.80 4ea, silicified.

115.80 116.85 4ea, silicified.

| | | | | | | | | |
|-------|--------|--------|------|-----|------|-----|-----|------|
| 20060 | 106.80 | 108.30 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 20061 | 108.30 | 109.80 | 1.50 | 0 | .69 | n/a | .77 | .73 |
| 20062 | 109.80 | 111.30 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 20063 | 111.30 | 112.80 | 1.50 | 1-2 | .29 | n/a | n/a | .29 |
| 20064 | 112.80 | 114.30 | 1.50 | 1-2 | .35 | n/a | n/a | .35 |
| 20065 | 114.30 | 115.80 | 1.50 | 1-3 | 1.20 | n/a | n/a | 1.20 |
| 20066 | 115.80 | 116.85 | 1.05 | 1-2 | .01 | n/a | n/a | .01 |

116.85 126.45 CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST
4bf(a).

Upper contact gradational over 40 cm.

Similar to 83.9; 60 to 65% b beds, moderately gruneritized, usually imparting a pale yellow cast to bands.

10 to 15% f beds less than or equal to 2.0 cm, with 3 to 5% 1 to 2 mm pinhead garnets. F beds generally concentrated in upper half of unit and then decrease gradually downhole to less than 5% at lower contact.

Well bedded at 49 to 63 degrees to the core axis (although locally to 72 degrees to the core axis in lower 1.0 m).

10 to 15% quartz as well defined veins 1 to 7 cm, generally sub parallel to bedding; veins usually barren; where mineralized, veins are associated with trace to 1% pyrrhotite as stringers and rare poorly developed sulphide replacement of magnetite.

Occasional breakage in unit, although this does not constitute blocky core. Chlorite and carbonate developed on broken surfaces.

116.85 126.45 Rock RQD 80 to 85%.

116.85 118.35 4fb, trace sample.

115.90 121.40 4ba(f), quartz-carbonate veins.

121.40 122.90 4bf(a), quartz vein.

| | | | | | | | | |
|-------|--------|--------|------|-----|------|-----|-----|------|
| 20067 | 116.85 | 118.35 | 1.50 | 0 | 1.28 | n/a | n/a | 1.28 |
| 20068 | 119.90 | 121.40 | 1.50 | 1-3 | .15 | n/a | n/a | .15 |
| 20069 | 121.40 | 122.90 | 1.50 | TR | .10 | n/a | n/a | .10 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUS549
PAGE NO: 11

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORU: .0 .0 SURVEYED: NO

PLACER DOME INC.

LOCATION: 33400N 1-75W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: NUS550
PROPERTY: MUSSELMWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 47.3

LENGTH: 179.0

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JANUARY 26 - 28, 1988

STARTED: JANUARY 24, 1988

COMPLETED: January 27, 1988

CLAIM NO:

PURPOSE: WILD CAT PQ LIME

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -42.0 | 120.00 | | -39.0 |
| 60.00 | | -40.0 | 150.00 | | -39.0 |
| 90.00 | | -40.0 | 175.00 | | -39.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

.00 22.80 OVERBURDEN

22.80 55.75 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

Typical fine grained grey felsic volcanic.

Generally 5 to 10% feldspar phenocrysts up to 0.5 mm stretched parallel to foliation.

2 to 3% quartz and carbonate veins to 2 cm parallel to foliation.

1 to 2% bands of sericite alteration to 2 cm locally more intense.

Locally garnet to 3 mm less than 1%.

22.85 30.30 Rock RQD 10 to 20%.

23.00 26.00 Up to 1% pyrite on fracture surfaces and veins up to 1 mm parallel to foliation.

30.90 38.00 Rock RQD 65 to 75%.

33.50 39.00 20 to 25% 1 to 2 cm bands of sericite alteration with development of biotite and phlogopite parallel to foliation.

38.00 39.50 Rock RQD 20 to 30% breaking parallel to foliation and 45 degrees to the core axis.

39.50 45.50 Rock RQD 65 to 70%.

45.50 53.00 Rock RQD 60 to 70%.

47.00 50.00 Similar to 33.5 to 39.0 15 to 20% carbonate and quartz veins with minor pyrite veinlets up to 1%.

53.00 55.75 Rock RQD 40 to 50%.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Trace pyrrhotite associated with amorphous garnet. | | | | | | | | | |
| | | 124.30 126.20 Rock RQD 50%. | | | | | | | | | |
| | | 124.50 125.50 4bea. | 21149 | 124.50 | 125.50 | 1.00 | TR | .48 | n/a | n/a | .48 |
| | | 125.50 126.50 4bea. | 21150 | 125.50 | 126.50 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 126.20 | 130.80 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. 4f(ea). 70 to 75% f beds 3 mm to 3 cm, 20 to 25% garnet to 2 mm. Contact gradational over 1.2 metres, beds, 2mm gradually increasing in width. 10 to 15% blue chert beds decreasing in magnetite content away from upper contact. 10 to 15% ea beds throughout to 1 cm. Heavily gruneritized with pinhead garnet remnants of green beds within ea beds. Locally mineralized in hinges of left limb folds. Well preserved bedding at 63 to 75 degrees to the core axis Right limb and left limb folding, left limb dominating axial plane at 70 to 80 degrees to the core axis. 126.20 130.80 Rock RQD 85%. | | | | | | | | | |
| | | 126.50 128.00 4fea. | 21151 | 126.50 | 128.00 | 1.50 | TR | .19 | n/a | n/a | .19 |
| | | 128.00 129.50 4f(ea). | 21152 | 128.00 | 129.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 129.50 130.80 4f(ea). | 21153 | 129.50 | 130.80 | 1.30 | TR | .01 | n/a | n/a | .01 |
| 130.80 | 137.65 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ea. 20 to 25% green s beds as remnants of ea bed' wisps and stringers in qtz and beds with garnet to 3 mm. 25 to 30% ea beds amorphous garnet clusters to 1 cm. 3 to 5% f beds variable throughout. 45 to 50% intensely silicified with white and blue quartz, disrupting bedding. Pyrrhotite as stringers in quartz and surrounding garnet in ea beds. Poorly to moderately preserved bedding at 65 to 75 degrees to the core axis. Few recognizable left limb folds axial plane 75 degrees to the core axis. 130.80 137.65 Rock FQD 85 to 95%. | | | | | | | | | |
| | | 130.80 131.80 4ea mild silicification. | 21154 | 130.80 | 131.80 | 1.00 | TR-1 | .78 | n/a | .44 | .61 |
| | | 131.80 132.80 Intense silicification, 4ea. | 21155 | 131.80 | 132.80 | 1.00 | 2-3 | .20 | n/a | n/a | .20 |
| | | 132.80 133.80 Intense silicification. | 21156 | 132.80 | 133.80 | 1.00 | 5-10 | 4.68 | 4.17 | n/a | 4.43 |
| | | 133.80 134.80 4ea. | 21157 | 133.80 | 134.80 | 1.00 | 1-2 | .10 | n/a | n/a | .10 |
| | | 134.80 135.80 Intense silicification, 4ea. | 21158 | 134.80 | 135.80 | 1.00 | 5-8 | 1.06 | .95 | n/a | 1.00 |
| | | 135.80 136.80 Intense silicification 4ea. | 21159 | 135.80 | 136.80 | 1.00 | 5-6 | 1.21 | 1.47 | n/a | 1.34 |
| | | 136.80 137.65 Intense silicification, 4ea. | 21160 | 136.80 | 137.65 | 1.00 | 5-8 | 2.76 | 2.60 | n/a | 2.68 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | RPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 137.65 | 139.25 | INTERMIXED POTASSIC BASALT AND NAFC VOLCANICS 3-E. Brown to green, medium grained, 10 to 15% carbonate veins. Well developed foliation at 80 degrees to the core axis. 137.65 139.75 Rock RQD 90%. 137.80 139.20 3-B. 139.20 140.20 4ea weakly silicified. | 21161 | 137.80 | 139.20 | 1.40 | HIL | 1.31 | n/a | n/a | 1.31 |
| | | | 21162 | 139.20 | 140.20 | 1.00 | TR-1 | .49 | n/a | n/a | .49 |
| 129.25 | 145.95 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ea. Similar to 130.8 137.65. 30 to 35% green e beds as remnants of ea beds whips in quartz and whole beds, containing 2 to 3% garnet to 3 mm. 35 to 40% ea beds, 20 to 25% amorphous garnet in a grunerite matrix, garnet to 1 cm. 3 to 5% f beds typical. 5 to 10% blue quartz as veins and silicified locally disrupting bedding. 2 to 3% carbonate associated with quartz veins. 3 to 5% magnetite disseminated within e beds. Moderately to well preserved bedding at 65 to 80 degrees to the core axis. 139.26 145.95 Rock RQD 85%. 140.20 141.20 4ea. 141.20 142.20 4ea. 142.20 143.20 4ea. 143.20 144.20 4ea. 144.20 145.20 4ea. 144.96 152.00 Rock RQD 75%. 145.20 146.20 4ea weakly silicified. | 21163 | 140.20 | 141.20 | 1.00 | TR | 1.09 | n/a | 1.03 | 1.06 |
| | | | 21164 | 141.20 | 142.20 | 1.00 | TR | 1.20 | n/a | n/a | 1.20 |
| | | | 21165 | 142.20 | 143.20 | 1.00 | TR | .25 | n/a | n/a | .25 |
| | | | 21166 | 143.20 | 144.20 | 1.00 | TR | .44 | n/a | n/a | .44 |
| | | | 21167 | 144.20 | 145.20 | 1.00 | 1 | 1.05 | n/a | n/a | 1.05 |
| | | | 21168 | 145.20 | 146.20 | 1.00 | 1-2 | .05 | n/a | n/a | .05 |
| 145.95 | 150.00 | GARNET-ETIOTITE SCHIST / GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. 4f(ea). As described 126.2 130.8. Beds become thinner and grade into 4ea over 1.5 m. Toward lower contact. Well preserved bedding at 57 to 66 degrees to the core axis Predominantly right limb folds axial plane 67 to 70 degrees to the core axis. 145.20 147.50 4f(ea). 147.50 149.00 4f(ea). 149.00 150.50 4f(ea). 150.50 152.00 4f(ea). | 21169 | 146.20 | 147.50 | 1.30 | TR | .20 | n/a | n/a | .20 |
| | | | 21170 | 147.50 | 149.00 | 1.50 | TR | .24 | n/a | n/a | .24 |
| | | | 21171 | 149.00 | 150.50 | 1.50 | TR | .44 | n/a | n/a | .44 |
| | | | 21172 | 150.50 | 152.00 | 1.50 | TR | .24 | n/a | .03 | .54 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|--|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | 5 to 10% pyrrhotite intense over 10 to 15 cm as sulphide replacement of magnetite and stringers. 1 to 2% e beds to 5 mm. Well preserved bedding at 61 to 70 degrees to the core axis Well developed fracture cleavage at 63 degrees to the core axis. | | | | | | | | | |
| | | 159.11 162.75 RQD 65%. | | | | | | | | | |
| | | 160.00 161.00 4bah. | 21177 | 160.00 | 161.00 | 1.00 | 10-15 | 1.72 | n/a | n/a | 1.72 |
| | | 161.00 162.00 4bah. | 21178 | 161.00 | 162.00 | 1.00 | 10-15 | .10 | n/a | n/a | .10 |
| | | 162.00 162.75 4bah. | 21179 | 162.00 | 162.75 | .75 | 5-10 | .15 | n/a | n/a | .15 |

162.75 179.00 BASALT

2.
Fine grained to medium grained blue gray to light green.
2 to 5% phlogopite developed associated with carbonate veins.
Fracture surfaces and broken core show intense developed of chloritic.
2 to 3% carbonate and quartz veins.
Well developed foliation at 60 to 80 degrees to the core axis.

162.76 179.00 Rock RQD 90%.
171.75 174.65 1 light green, soft well developed foliation 55 to 77.

179.00 179.00 END OF HOLE

CORE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 180 CREE CPESC, WINNIPEG, MANITOBA.

REF COR: 7075.1 6913.0 SURVEYED: YES

PLACER GONE INC.

LOCATION: 10+00N 1+25W GRID: EAST

DIAMOND GRILL RECORD

HOLE NO: M5551
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 149.0

ELEVATION: 5302.5

LOGGED BY: N. BECKETT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JAN. 26, 1988 - JAN. 27, 1988

STARTED: JAN. 24, 1988

COMPLETED: JAN. 27, 1988

CLAIM NO:

PURPOSE: WILDCAT HOLE ON PG LIMB - 5250 m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -46.0 | 120.00 | | -41.0 |
| 60.00 | | -43.0 | 146.00 | | -39.0 |
| 90.00 | | -41.5 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| .00 | 16.20 | OVERBURDEN Sand and boulders. | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|
| 16.20 | 27.20 | FELSIC TO INTERMEDIATE VOLCANICS A VOLCANICS. | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|

Typical fine grained to medium grained light grey felsic volcanic package containing 10 to 15% disseminated white mica plates.

5 to 10% quartz - sericite bands less than or equal to 6 mm forming a compositional banding parallel to foliation.

Well foliated at 39 to 55 degrees to the core axis.

5 to 7% white quartz as veins 1 to 30 cm wide, carrying 1 to 2% pyrrhotite veinlets in quartz, and occasionally as isolated veinlets in 'A volc' adjacent to quartz.

Core blocky with gravelly sections over 5 to 20 cm; breakage parallel to and perpendicular to foliation.

16.20 27.20 Rock RQD 70%.

20.00 20.50 A volc, quartz.

| | | | | | | | | |
|-------|-------|-------|-----|---|-----|-----|-----|-----|
| 20081 | 20.00 | 20.50 | .50 | 1 | .93 | n/a | n/a | .93 |
|-------|-------|-------|-----|---|-----|-----|-----|-----|

22.10 23.60 A volc, large quartz vein.

| | | | | | | | | |
|-------|-------|-------|------|-----|-----|-----|-----|-----|
| 20082 | 22.10 | 23.60 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
|-------|-------|-------|------|-----|-----|-----|-----|-----|

25.80 27.20 As in text but with 20 to 25% white mica disseminated through unit; very soft.

| | | | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|
| 27.20 | 32.20 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS 3-6. | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|

30 to 35% medium grained brown phlogopite, intermixed with 20 to 25% B volc material; 'B' best developed from 29.6 to 32.35.

1 to 3% carbonate as stringers and veinlets less than or

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | equal to 2 mm (locally to 1.0 cm). Unit well foliated at 49 to 63 degrees to the core axis. Unit locally blocky over 5 to 154 cm sections. | | | | | | | | | |
| 27.20 | 33.70 | Rock RQ 85%. | | | | | | | | | |
| 28.40 | 29.05 | 2-4e. Poorly developed, interbanded B material and garnet - amphibole beds with foliation parallel to compositional banding; unit carries 1 to 2% pyrrhotite as poorly developed sulphide cement in amphibole beds. | 20083 | 28.40 | 29.05 | .65 | 1-2 | .01 | n/a | n/a | .01 |
| 33.70 | 38.40 | INTERFORMATIONAL IRON FORMATION 2-4e. Compositional banding of 35 to 40% potassic basalt in bands less than or equal to 30 cm, with 25 to 30% garnet - amphibole beds up to 55 cm wide, moderately to heavily gruneritized, with 5 to 10% 3 to 6 mm rounded garnets. Well banded and foliated at 45 to 66 degrees to the core axis. 25 to 30% blue quartz as veins 1 to 2 cm, parallel to bedding, and as local silicified zones up to 30 cm associated with trace to 1% pyrrhotite, locally 5 to 1% pyrrhotite as veinlets and local moderately developed sulphide cement in 'e' beds; moderate bedding disruption in silicified zones. | | | | | | | | | |
| 33.70 | 38.40 | Rock RQ 85 to 90%. | | | | | | | | | |
| 33.70 | 35.20 | 2-4e, quartz veins. | 20084 | 33.70 | 35.20 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 35.20 | 36.70 | 2-4e, large quartz vein. | 20085 | 35.20 | 36.70 | 1.50 | TR-1 | 1.66 | n/a | n/a | 1.66 |
| 36.70 | 37.70 | 2-4e, quartz, locally silicified. | 20086 | 36.70 | 37.70 | 1.00 | 2-4 | 1.39 | n/a | n/a | 1.39 |
| 37.70 | 38.40 | 2-4e, silicified. | 20067 | 37.70 | 38.40 | .70 | 5-7 | 6.53 | .01 | n/a | 3.27 |
| 38.40 | 44.30 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS 3-E. Similar to 27.2; unit not so homogeneous as above; compositional banding on a 10 cm to 1 m scale with 25 to 30% B volc material. 10 to 15% carbonate, as veinlets and stringers up to 1.0 cm parallel to foliation. Well developed foliation at 46 to 60 degrees to the core axis. 38.40 49.10 Rock RQ 90%. | | | | | | | | | |
| 42.70 | 42.72 | 2.0 cm carbonate vein sub parallel to foliation; very blocky. | | | | | | | | | |
| 44.30 | 45.30 | As in text but with intense quartz veining; veins up to 1.0 cm associated with trace to 1% pyrrhotite specks. | | | | | | | | | |
| 44.30 | 45.30 | 3-E, quartz veins. | 20088 | 44.30 | 45.30 | 1.00 | TR-1 | .59 | n/a | n/a | .59 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | gruneritized, with 10 to 12% 2 mm to 1.0 cm subhedral to amorphous garnets. 10 to 15% f beds locally developed, less than or equal to 2.0 cm, moderately to heavily chloritized. Trace pyrrhotite specks associated with 3 to 5% quartz veins up to 1.0 cm, sub parallel to bedding. Well bedded at 51 degrees to the core axis, increasing downhole to 63 degrees to the core axis. 54.70 56.70 Rock RQD 80 to 85%. | | | | | | | | | |
| | | 54.70 55.75 4eb, quartz veins. | 20091 | 54.70 | 55.75 | 1.05 | TR | .55 | n/a | n/a | .55 |
| | | 55.75 56.70 4b(e). | 20092 | 55.75 | 56.70 | .95 | TR | .01 | n/a | n/a | .01 |
| 56.70 | 58.70 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / CHELT-MAGNETITE I.F. 4ea(b). 50 to 60% ea beds 1 to 5 cm wide, heavily gruneritized, with 20 to 25% 0.5 to 1.0 cm subhedral to amorphous garnets. Interbanded with 10 to 15% b beds less than or equal to 1.5 cm, with 3 to 5% magnetite laminae. 10 to 15% f beds, generally developed in lower 80 cm of unit. 10 to 15% quartz-carbonate, as veins sub parallel to bedding, but locally displaying slight bedding disruption; veins barren. Moderately to well bedded at 59 to 61 degrees to the core axis. Considerable broad, open left limb folding with fold axes parallel to carbonate filled fracture cleavage at 28 to 38 degrees to the core axis. 56.70 58.70 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 56.70 57.70 4ea, quartz. | 20093 | 56.70 | 57.70 | 1.00 | 0 | .59 | n/a | n/a | .59 |
| | | 57.70 58.70 4ea, quartz-carbonate. | 20094 | 57.70 | 58.70 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 58.70 | 60.20 | GARNET-BIOTITE SCHIST / CHELT-MAGNETITE I.F. 4fb. Similar to 53.3, but with 10 to 15% heavily gruneritized b beds less than or equal to 4 mm interbanded on a cm scale with laminated f beds. Well bedded, but variable at 55 to 76 degrees to the core axis. Antiformal fold closure at 58.8, with axial plane 60 degrees to the core axis. Antiform-synform pairs or left limb folds below 58.2, with axial plane 54 to 60 degrees to the core axis. 58.70 60.20 Rock RQD 80%. | | | | | | | | | |
| | | 58.70 60.20 4fb, trace sample. | 20095 | 58.70 | 60.20 | 1.50 | 0 | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

60.20 63.10 CHEPT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4b(f).

60 to 70% b beds, less than or equal to 8.0 cm, with 25 to 30% magnetite, generally laminated, but locally disseminated over 5 to 7 cm sections.

15 to 20% f beds, moderately chloritized, 0.5 to 2.0 cm, with 5 to 7% 1 to 2 mm garnets; beds somewhat concentrated through central 30 cm portion of unit.

10% Magnetite poor chert beds less than or equal to 1.0 cm, locally boudinaged.

Well bedded at 43 degrees to the core axis, increasing downhole to 70 degrees to the core axis at lower contact.

Trace to 1% pyrrhotite overall as 2 to 4 mm blebs and occasional specks associated with rare 1.0 to 1.5 cm quartz veins sub parallel to bedding; locally developed carbonate filled fracture cleavage clearly visible at 65 degrees to the core axis.

NB: bedding > fracture cleavage orientation.

Core not really blocky, but does exhibit breakage into many 4 to 8 cm pieces.

60.20 63.10 Rock RQD 70 to 75%.

61.60 63.10 4b(f), quartz veins.

20096 61.60 63.10 1.50 1-2 2.67 n/a n/a 2.67

63.10 92.35 CHEPT - MAGNETITE IRON FORMATION

4b.

60 to 70% b beds, laminated to thinly bedded, with 25 to 30% magnetite.

20 to 25% magnetite poor chert beds, less than or equal to 1.5 cm, occasionally boudinaged.

5 to 10% grunerite, generally as 1 to 2 mm laminae at margins of b and chert beds but occasionally disseminated to produce a yellow cast in b beds.

Rare f beds, locally developed, less than or equal to 8 mm; moderately to heavily chloritized.

Well bedded at 51 to 61 degrees to the core axis, although locally as low as 43 degrees to the core axis at 75.2.

Considerable folding (broad, open) throughout unit; left limb folds from upper contact to 67.8, with axial plane 59 to 59 degrees to the core axis.

Occasional right limb folds from 68.4 to 69.4 with axial plane 68 degrees to the core axis.

Left limb folds below 69.6 with axial plane 61 degrees to the core axis.

NB: fold closures not visible, but are replaced by broad zones of blue quartz; quartz carries 1 to 2% pyrrhotite stringers.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUH | REJECT | AVERAGE |
|---|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| Considerable right limb folding below 84.0, with axial plane parallel to carbonate filled fracture cleavage at 51 to 55 degrees to the core axis. | | | | | | | | | | | |
| 63.10 | 72.50 | Rock RQD 90 to 95%. | | | | | | | | | |
| 67.75 | 69.25 | 4b, large quartz vein. | 20097 | 67.75 | 69.25 | 1.50 | 1-2 | 3.40 | n/a | n/a | 3.40 |
| 69.25 | 70.60 | 4b, quartz vein. | 20098 | 65.25 | 70.60 | 1.35 | 1 | 2.01 | n/a | n/a | 2.01 |
| 72.50 | 82.70 | Similar to above but chert beds more numerous at 25 to 30% ; unit locally slightly brecciated ; also in this interval quartz is white rather than the blue quartz seen elsewhere; folding not observed in this section. | | | | | | | | | |
| 72.50 | 74.00 | 4b, quartz veins. | 20099 | 72.50 | 74.00 | 1.50 | 1-2 | .73 | n/a | .50 | .61 |
| 72.51 | 82.70 | Rock RQD 90 to 95%. | | | | | | | | | |
| 77.00 | 79.50 | 4b, quartz veins. | 20100 | 77.00 | 79.50 | 1.50 | 1-3 | 1.39 | n/a | n/a | 1.39 |
| 81.50 | 83.00 | 4b, quartz veins. | 20101 | 81.50 | 83.00 | 1.50 | TR | 1.50 | n/a | n/a | 1.50 |
| 82.70 | 92.35 | Rock RQD 100%. | | | | | | | | | |
| 83.00 | 84.50 | 4b, 35% quartz. | 20102 | 83.00 | 84.50 | 1.50 | 2-4 | 1.42 | n/a | n/a | 1.42 |
| 84.50 | 86.00 | 4b, 10 cm quartz veins. | 20103 | 84.50 | 86.00 | 1.50 | 2-4 | 1.36 | n/a | n/a | 1.36 |
| 87.50 | 89.00 | 4b, quartz. | 20104 | 87.50 | 89.00 | 1.50 | TR-1 | 1.05 | n/a | n/a | 1.05 |
| 90.85 | 92.35 | 4b, 15 cm quartz vein. | 20105 | 90.85 | 92.35 | 1.50 | 1-3 | 4.40 | n/a | n/a | 4.40 |

92.35 95.90 CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIGTITE SCHIST

4baf.
40 to 45% heavily gruneritized b beds, with 15 to 20% disseminated magnetite, occasionally displaying a mottled texture.
30 to 35% f beds, less than or equal to 2.0 cm, weakly chloritized, with 5 to 10% 1 to 3 mm pinhead garnets.
10 to 15% magnetite poor chert beds, less than or equal to 1.0 cm, locally boudinaged.
Well bedded at 36 degrees to the core axis, increasing downhole to 47 degrees to the core axis.
10 to 15% blue quartz, as veins 1 to 5 cm wide, generally cut parallel to bedding ; barren.
Trace pyrrhotite as rare specks ; massive pyrrhotite vein, 1.0 cm at 94.80 to 94.91, cuts bedding at 54 degrees to the core axis.
Rare right limb folds, with axial plane 45 degrees to the core axis.
92.35 95.90 Rock RQD 90%.

| | | | | | | | | | | | |
|-------|-------|---------------------|-------|-------|-------|------|-----|-----|-----|-----|-----|
| 92.35 | 93.80 | 4baf, quartz veins. | 20106 | 92.35 | 93.80 | 1.45 | TR | .01 | n/a | n/a | .01 |
| 93.80 | 95.30 | 4baf, quartz veins. | 20107 | 93.80 | 95.30 | 1.50 | 2-4 | .01 | n/a | n/a | .01 |
| 95.30 | 95.90 | 4baf. | 20108 | 95.30 | 95.90 | .60 | TR | .01 | n/a | .01 | .01 |

95.90 104.90 CHERT - MAGNETITE IRON FORMATION

4b.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | REGRUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|--------|--------|---------|
| | | Similar to 63.1, but bedding somewhat thicker at 1 to 6 cm. Well bedded at 46 to 49 degrees to the core axis. Broad, open right limb folds from 95.9 to 98.4, with axial plane 46 to 53 degrees to the core axis. Core blocky from 101.5 to 104.2 with occasional brecciation and carbonate infilling. | | | | | | | | | |
| | | 95.90 101.50 Rock RQD 100%. | | | | | | | | | |
| | | 97.50 99.00 kb, pyrrhotite vein. | 20109 | 97.50 | 99.00 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| | | 98.40 98.50 Synformal fold closure with axial plane 50 degrees to the core axis. | | | | | | | | | |
| | | 98.50 100.00 Occasional antiform-synform pairs with axial plane parallel to carbonate filled fracture cleavage at 55 degrees to the core axis. Rare pyrrhotite veinlets 2 to 4 mm wide parallel to fracture cleavage. | | | | | | | | | |
| | | 101.50 104.20 Rock RQD 35 to 40%. | | | | | | | | | |
| | | 102.50 104.00 kb(af), character sample. | 20110 | 102.50 | 104.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 104.20 104.90 Rock RQD 80%. | | | | | | | | | |
| 104.90 | 108.45 | CHERT-MAGNETITE-GRÜNERITE I.F. / GARNET-BIOTITE SCHIST kbaf. | | | | | | | | | |
| | | Similar to 92.35. Well bedded at 43 to 49 degrees to the core axis. Core blocky from 107.8 to 108.45 with tqd=0 in this section. | | | | | | | | | |
| | | 104.90 107.80 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 106.95 108.45 kbaf, character sample. | 20111 | 106.95 | 108.45 | 1.50 | TR | .29 | n/a | n/a | .29 |
| | | 107.80 108.45 Rock RQD 8%. | | | | | | | | | |
| 108.45 | 114.70 | GARNET-AMPHIBOLE-CHERT-GRÜNERITE I.F. / CHERT-MAGNETITE I.F. kbaf(b). | | | | | | | | | |
| | | Similar to 56.7; f beds moderately to heavily chloritized, and developed throughout unit. Well bedded at 43 to 51 degrees to the core axis. 5 to 10% quartz-carbonate veins sub parallel to bedding; barren. Rare pyrrhotite specks, locally developed. Core locally blocky over 5 to 10 cm sections; chlorite developed on broken surfaces. | | | | | | | | | |
| | | 108.45 114.70 Rock RQD 80%. | | | | | | | | | |
| | | 108.45 109.90 4-a(b), carbonate-quartz. | 20112 | 108.45 | 109.90 | 1.45 | TR | .94 | n/a | n/a | .94 |
| | | 109.90 111.40 4ea(t), quartz veins | 20113 | 109.90 | 111.40 | 1.50 | TR | .72 | n/a | n/a | .72 |
| | | 111.40 112.90 4ea(b), white quartz vein. | 20114 | 111.40 | 112.90 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| | | 112.90 113.90 4ea(t), carbonate-quartz veins. | 20115 | 112.90 | 113.90 | 1.00 | TR | .01 | n/a | n/a | .01 |
| | | 113.90 114.70 4ea(b). | 20116 | 113.90 | 114.70 | .80 | 0 | .83 | n/a | n/a | .83 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Pc | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | bedding angle. F beds decrease rapidly below 132.5 ; 3 to 5% pyrrhotite as sulphide replacement of magnetite in this section. | | | | | | | | | |
| | | 125.30 123.30 Rock RQD 95%. | | | | | | | | | |
| | | 125.30 127.40 4fb, character sample. | 20119 | 125.80 | 127.40 | 1.50 | 0 | .34 | n/a | n/a | .34 |
| | | 123.30 132.20 Rock RQD 50 to 60%. | | | | | | | | | |
| | | 128.30 132.20 As in text but core blocky, generally as 2 to 3 cm pieces with local gravelly sections. | | | | | | | | | |
| | | 131.00 132.50 4fb, character sample. | 20120 | 131.00 | 132.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 132.20 134.00 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 132.50 134.00 4bf. | 20121 | 132.50 | 134.00 | 1.50 | 3-5 | 1.54 | n/a | n/a | 1.54 |
| 134.00 | 137.05 | CHERT - MAGNETITE IRON FORMATION 4b. Similar to 63.1. Upper contact gradational over 40 to 50 cm. Well bedded at 47 to 55 degrees to the core axis. Bedding appears somewhat wavy (ie: 2 to 5 mm amplitude flexures). 5 to 10% pyrrhotite as locally developed sulphide replacement of magnetite, occasionally containing brecciated chert fragments similar to 4h units. Core blocky over 10 to 40 cm sections ; generally heavily chloritized in these intervals. | | | | | | | | | |
| | | 134.00 137.05 Rock RQD 50%. | | | | | | | | | |
| | | 134.00 135.50 4b. | 20122 | 134.00 | 135.50 | 1.50 | 5-10 | 4.64 | 5.78 | n/a | 5.21 |
| | | 135.50 137.00 4b. | 20123 | 135.50 | 137.00 | 1.50 | 5-10 | 1.42 | 1.72 | n/a | 1.57 |
| | | 137.00 138.50 4ba, quartz veins. | 20124 | 137.00 | 138.50 | 1.50 | 1-3 | .39 | n/a | n/a | .39 |
| 137.05 | 140.20 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. 50 to 70% b beds, laminated to thinly bedded, less than or equal to 1.0 cm, with 15 to 20% magnetite. 15 to 20% magnetite poor chert beds, up to 5 mm. 10 to 15% grunerite, generally as 1 to 3 mm laminae at margins of b and chert beds, but locally replacing magnetite completely over 10 to 40 cm sections. 1 to 3% pyrrhotite overall as poorly developed veinlets associated with 5 to 10% 1 to 10 cm quartz veins. Veins cut bedding at 46 to 52 degrees to the core axis ; angle of quartz veins is greater than bedding angle. Well bedded at 31 to 39 degrees to the core axis. | | | | | | | | | |
| | | 137.05 140.20 Rock RQD 75 to 80%. | | | | | | | | | |
| | | 138.50 139.20 4ba, quartz veins. | 20125 | 138.50 | 139.20 | .70 | TR-1 | .73 | n/a | n/a | .73 |
| | | 139.20 140.20 4ba, quartz veins. | 20126 | 139.20 | 140.20 | 1.00 | 2-4 | .69 | n/a | .87 | .78 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 140.20 | 140.95 | SULFIDE FACIES IRON FORMATION kh. 5 to 10 cm wide bands of chert fragments set in massive pyrrhotite matrix. Interbanded with 25 to 30% chert - grunerite beds containing occasional pyrrhotite stringers and more rarely pyrrhotite replacement texture. 10% Blue quartz as veins less than or equal to 1.5 cm ; veins barren. Moderately bedded at 46 degrees to the core axis. 140.20 140.95 Rock RQC 80%. 140.20 149.00 Rock RQC 10 to 15%. 140.20 140.95 kh. | 20127 | 140.20 | 140.95 | .75 | 40 | .30 | n/a | n/a | .30 |

| | | | | | | | | | | | |
|--------|--------|---|-------|--------|--------|------|---|-----|-----|-----|-----|
| 140.95 | 149.00 | TEENCLITE / CHLORITE MG BASALT ld. Typical light to medium grey green volcanic package; very soft. Unit contains appreciable chlorite as seen on all broken surfaces. Unit very homogeneous; well foliated at 59 to 63 degrees to the core axis, decreasing rapidly below 144.5 to 0 degrees to the core axis at 146.0 to 147.0, and then increasing to 54 degrees to the core axis below 147.7. Core very blocky throughout; breakage parallel to foliation planes occasionally producing silver dollar core 140.95 142.45 ld. trace sample. | 20120 | 140.95 | 142.45 | 1.50 | 0 | .01 | n/a | n/a | .01 |
|--------|--------|---|-------|--------|--------|------|---|-----|-----|-----|-----|

149.00 149.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 150 CREE CRESC. WINNIPEG, MANITOBA.

REF CORID: 8404.8 5761.2 SURVEYED: YES

PLACER DOM? INC.

LOCATION: 36403N 1470W 5FIG: EAST

DIAMOND DRILL RECORD

HOLE NO: HUS552

POST LOCATION:

PROPERTY: HUSSELWHITE GRUBSTAKE (1873)
SECTION:

AZIMUTH: 48.5 LENGTH: 173.0 ELEVATION: 5302.5

LOGGED BY: R. W. STEWART

DIP: -45.0 CORE SIZE: B9 SYSTEM OF MEASURE: METRIC

DATE LOGGED: JANUARY 30-31, 1988

STARTED: JAN. 29, 1988 COMPLETED: JAN. 30, 1988 CLAIM NO:

PURPOSE: WILDCAT HOLE ON FQ LINE-5250 m EL

| DIP TESTS (corrected) | | | | | |
|-----------------------|---------|-------|--------|---------|-------|
| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
| 30.00 | | -48.0 | 120.00 | | -43.0 |
| 60.00 | | -45.0 | 150.00 | | -43.0 |
| 90.00 | | -45.0 | 173.00 | | -42.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|----|--------|-------|--------|---------|
| .00 | 30.25 | OVERBURDEN Sand, gravel and boulders. | | | | | | | | | |
| 30.25 | 43.85 | FELSIC TO INTERMEDIATE VOLCANICS Fine grained, light blue grey quartz feldspar rich unit laminated with micaceous biotite sericite seams. 5% Quartz with minor carbonate veins parallel to foliation. Semi-massive with weak compositional banding to 37.25. Foliation well developed from 37.25 to 43.85 at 70 to 80 degrees to the core axis. 30.25 31.20 Rock RQO 0%. 31.21 43.85 Rock RQO 60% occasional 30 cm segment of blocky core. | | | | | | | | | |
| 43.85 | 31.50 | INTERMEDIATE TO MAFIC VOLCANICS B. Fine grained medium green hornblende plagioclase assemblage with up to 5% medium grained phlogopite increasing locally to 30 to 40%. 5 to 10% 0.5 to 2.0 cm quartz-carbonate veins parallel to foliation. Veining increases with phlogopite. Foliation at 75 degrees to the core axis. 43.85 59.00 Rock RQO 90%. 43.35 44.35 GARNETIFEROUS POTASSIC BASALT Gt-3 Gradational contact, 40% garnet phlogopite with fine grained disseminated pyrrhotite intercalated with 40% FELSIC TO INTERMEDIATE VOLCANICS. 43.85 44.35 2.0cm massive pyrrhotite band. | | | | | | | | | |
| | | | 19297 | 43.85 | 44.35 | .50 | 10 | 2.79 | n/a | n/a | 2.79 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUM | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Foliation parallel to banding at 75 degrees to the core axis. | | | | | | | | | |
| | | 114.00 115.60 Rock RQD 80%. | | | | | | | | | |
| | | 114.00 115.60 Af. | 19307 | 114.00 | 115.60 | 1.60 | TR-1 | .70 | n/a | n/a | .70 |
| 115.60 | 128.00 | GARNET-AMPHIBOLE I.F. / GARNET-BIOTITE SCHIST 4ef. Poorly bedded on a cm scale. Iron formation composed of 50% garnet hornblende e beds to weakly gruneritized e(a) beds. 30% Well developed garnet biotite f beds locally increase to 50%. Up to 15% chert beds with rare magnetite laminae. Magnetite increases to 10% at 128.0 medium. Bedding consistant at 65 to 80 degrees to the core axis. Rare left limb minor folds with axial plane at 65 degrees to the core axis. Trace to nil sulphides. | | | | | | | | | |
| | | 115.60 118.50 4eaf similar to text with 60% intensely gruneritized ea beds. | | | | | | | | | |
| | | 115.60 128.00 Rock RQD 85%. | | | | | | | | | |
| | | 115.60 117.00 4eaf. | 19308 | 115.60 | 117.00 | 1.40 | TR | .20 | n/a | n/a | .20 |
| | | 117.00 118.50 4eaf. | 19309 | 117.00 | 118.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 118.50 119.00 Af similar to 114.0 to 115.6. | | | | | | | | | |
| | | 119.50 120.00 4ef. | 19310 | 118.50 | 120.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 120.00 121.50 4ef. | 19311 | 120.00 | 121.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 121.50 123.00 4ef. | 19312 | 121.50 | 123.00 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| | | 123.00 124.50 4ef. | 19313 | 123.00 | 124.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 124.50 126.00 4ef. | 19314 | 124.50 | 126.00 | 1.50 | 0 | .35 | n/a | n/a | .35 |
| | | 126.00 127.00 4ef. | 19315 | 126.00 | 127.00 | 1.00 | 0 | .34 | n/a | .54 | .44 |
| | | 127.00 128.00 4ef. | 19316 | 127.00 | 128.00 | 1.00 | 0 | .05 | n/a | n/a | .05 |
| 128.00 | 134.60 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE IRON FORMATION 4fe. 55 to 60% well developed garnet biotite (f) beds up to 6.0 cm wide. 25% Weakly gruneritized e beds. 25% Laminated chert magnetite beds. Bedding at 60 to 90 degrees to the core axis. Rare minor folds displaying left limb closures to 130.0 m and right limb closures to lower contact axial plane at 65 degrees to the core axis. | | | | | | | | | |
| | | 129.00 134.60 Rock RQD 80%. | | | | | | | | | |
| | | 128.00 129.50 4fe. | 19317 | 128.00 | 129.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 129.50 131.00 4fe. | 19318 | 129.50 | 131.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 131.00 132.50 4fe. | 19319 | 131.00 | 132.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 132.50 133.50 4fe. | 19320 | 132.50 | 133.50 | 1.00 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 133.50 | 134.60 | 4fe. | 19321 | 133.50 | 134.60 | 1.10 | 0 | .01 | n/a | n/a | .01 |
| 134.60 | 144.20 | GARNET - AMPHIBOLE IRON FORMATION 4e. Poorly bedded weakly magnetic iron formation composed of 35% subhedral garnets up to 1.0 cm supported by fine grained dark green hornblende with minor grunerite. 30% Poorly preserved chert beds with 5% laminated magnetite Up to 10% f beds. 5% Quartz pyrrhotite veins. Bedding at 60 to 80 degrees to the core axis. 134.60 144.20 Rock RQD 60%. | | | | | | | | | |
| 134.60 | 136.00 | 4e. | 19322 | 134.60 | 136.00 | 1.40 | 0 | 1.27 | n/a | n/a | 1.27 |
| 136.00 | 137.50 | 4e. | 19323 | 136.00 | 137.50 | 1.50 | 1 | 2.20 | n/a | n/a | 2.20 |
| 137.50 | 139.00 | 4e. | 19324 | 137.50 | 139.00 | 1.50 | 2-3 | 1.74 | n/a | 1.09 | 1.41 |
| 139.00 | 140.50 | 4e. | 19325 | 139.00 | 140.50 | 1.50 | 3-5 | 4.03 | n/a | n/a | 4.03 |
| 140.50 | 142.00 | 4e. | 19326 | 140.50 | 142.00 | 1.50 | 2-3 | .98 | n/a | n/a | .98 |
| 142.00 | 143.10 | 4e. | 19327 | 142.00 | 143.10 | 1.10 | 1 | 1.14 | n/a | n/a | 1.14 |
| 143.10 | 144.20 | 4e. | 19328 | 143.10 | 144.20 | 1.10 | 3-5 | 2.09 | n/a | n/a | 2.09 |
| 144.20 | 145.45 | INTERMEDIATE TO MAFIC VOLCANICS 6. Fine grained dark green hornblende rich volcanic wedge with 15% narrow garnet biotite (f) beds and 15% phlogopite seams. Foliation at 75 degrees to the core axis. Nil pyrrhotite. 144.20 145.45 Rock RQD 100%. | | | | | | | | | |
| 145.45 | 157.20 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE IRON FORMATION 4fe. Similar to 139.0 to 134.6 with 25% moderately developed ea beds to 152.0. Bedding at 50 to 80 degrees to the core axis, typically 65 degrees to the core axis. Trace to nil pyrrhotite. 145.45 157.20 Rock RQD 75%. | | | | | | | | | |
| 145.45 | 147.00 | 4fe. | 19329 | 145.45 | 147.00 | 1.55 | 0 | .78 | n/a | n/a | .78 |
| 147.00 | 148.50 | 4fe. | 19330 | 147.00 | 148.50 | 1.50 | 0 | 1.90 | n/a | n/a | 1.90 |
| 148.50 | 150.00 | 4fe. | 19331 | 148.50 | 150.00 | 1.50 | 0 | .69 | n/a | n/a | .69 |
| 150.00 | 151.50 | 4fe. | 19332 | 150.00 | 151.50 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| 151.50 | 153.00 | 4fe. | 19333 | 151.50 | 153.00 | 1.50 | 0 | .05 | n/a | .01 | .03 |
| 153.00 | 154.50 | 4fe. | 19334 | 153.00 | 154.50 | 1.50 | 0 | .44 | n/a | n/a | .44 |
| 154.50 | 156.00 | 4fe. | 19335 | 154.50 | 156.00 | 1.50 | 0 | 1.83 | n/a | n/a | 1.83 |
| 156.00 | 157.20 | 4fe. | 19336 | 156.00 | 157.20 | 1.20 | 0 | .54 | n/a | n/a | .54 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 157.20 | 161.15 | CHERT - MAGNETITE IRON FORMATION 4b. Poorly bedded iron formation with 50% boudinaged chert with 20% magnetite laminae. 20% F beds up to 0.5 cm. 5% Carbonate veinlets rimmed by chlorite. 30% Disseminated pyrrhotite > pyrite defines lower contact from 161.0 161.15. Bedding at 60 to 75 degrees to the core axis. 157.20 161.15 Rock RQD 10% blocky core, 25cm lost core at 160.75. | | | | | | | | | |
| 157.20 | 158.50 | 4b. | 19337 | 157.20 | 158.50 | 1.30 | TR-1 | .77 | n/a | n/a | .77 |
| 158.50 | 159.75 | 4b. | 19338 | 158.50 | 159.75 | 1.25 | TR-1 | 4.15 | n/a | n/a | 4.15 |
| 159.75 | 161.15 | 4b with 30% disseminated pyrrhotite at lower contact. | 19339 | 159.75 | 161.15 | 1.40 | 2-3 | 1.62 | n/a | n/a | 1.62 |

161.15 173.00 BASALT

2.
Fine grained moderately foliated basement basalt. Hornblende plagioclase rich assemblage with up to 15% fine grained phlogopite occurring as discrete threads and seams.
Up to 5% narrow quartz-carbonate veinlets.
Foliation decreases from 70 degrees to the core axis near 161.15 to 40 degrees to the core axis at 170 medium.

161.15 173.00 Rock RQD 85%.
168.89 170.30 1d massive medium grained chlorite tremolite Mg basalt/HN.

173.00 173.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MICWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

REF COFD: 6379.0 7161.2 SURVEYED: YES

PLACER DOME INC.

LOCATION: 11+00N 0+40 GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5553
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.6

LENGTH: 362.0

ELEVATION: 5302.5

LOGGED BY: P. Gertzbein and W. Beckett

DIP: -59.5

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: JANUARY 27 - 31, 1988

STARTED: JANUARY 24, 1988

COMPLETED: January 31, 1988

CLAIM NO:

PURPOSE: TEST 5950 W EL T MAIN ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 60.00 | | -59.0 | 240.00 | | -53.0 |
| 90.00 | | -59.0 | 270.00 | | -53.0 |
| 120.00 | | -57.5 | 300.00 | | -52.0 |
| 150.00 | | -57.0 | 330.00 | | -51.0 |
| 180.00 | | -56.0 | 360.00 | | -50.0 |
| 210.00 | | -55.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

.00 28.10 OVERBURDEN

28.10 40.10 INTERMEDIATE TO MAFIC VOLCANICS

Fine grained, green well developed foliation at 36 to 51 degrees to the core axis.

Top half meter shows weathering.

2 to 3% phlogopite developed parallel to foliation.

Up to 1% carbonate and quartz veins.

28.10 40.10 Rock RQD 30 to 35% generally breaking parallel to foliation, however over 10 to 20 cm section core is blocky and breaks along fractures 20 to 45 degrees to the core axis.

40.10 45.55 INTRAFORMATIONAL IRON FORMATION

S-4f.

Typical 4f unit 95% f beds with 10 to 15% garnets to 1 mm, beds to 1 cm.

3 to 5% ea beds euhedral to amorphous garnet to 3 mm in grunerite matrix, beds to 1.5 cm.

Well preserved bedding at 28 to 38 degrees to the core axis

Up to 1% carbonate veinlets.

40.11 45.55 Rock RQD 60 to 70% 10 to 15 cm section of blocky core.

63.5346
(part 2)

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | to the core axis, right limb folds axial plane 40 degrees to the core axis, 3 to 5% pyrrhotite as veins to 5 mm. | | | | | | | | | |
| 161.70 | 162.50 | 2-4s. | 21193 | 161.70 | 162.50 | .80 | 3-5 | 1.71 | n/a | n/a | 1.71 |
| 164.30 | 169.60 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. 30 to 65% f beds 1 to 2 cm, 10 to 15% garnets to 1 mm, biotite weakly chloritized. 20 to 25% chert beds 1 to 2 cm. 5 to 10% magnetite as beds to 5 mm and laminae within chert beds. 3 to 5% grunerite as alteration of magnetite laminae and margins of magnetite beds. Lower contact grades into next unit over 1 meter. Well preserved bedding at 35 to 50 degrees to the core axis Left limb folding axial plane 31 to 36 degrees to the core axis. Moderately developed fracture cleavage at 35 degrees to the core axis. Cleavage bedding relationship indicates left limb folding. | | | | | | | | | |
| 164.30 | 164.50 | quartz flooding disrupting bedding, with trace to 1% pyrrhotite. | | | | | | | | | |
| 164.30 | 169.60 | Rock RQD 100%. | | | | | | | | | |
| 164.30 | 165.30 | 4fb. | 21194 | 164.30 | 165.30 | 1.00 | TR-1 | 2.43 | n/a | n/a | 2.43 |
| 169.60 | 175.50 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4bes. 30 to 35% poorly to moderately developed ea beds, 1 to 2 cm, well developed in areas of quartz flooding garnets to 1.0 cm. 20 to 25% chert beds 0.5 to 1.5 cm, blue grey. 10 to 15% magnetite as laminae in chert beds, thin beds, and mottled remnants in gruneritized beds. 15 to 20% green amphibole rich e beds as remnants of ea beds threads and wisps in areas of quartz flooding and whole beds with 3 to 5% garnets to 3 mm. 3 to 5% f beds 1 to 2 cm, 2% garnets to 3 mm. Trace to 1% pyrrhotite in areas of quartz flooding. Well preserved bedding at 38 to 49 degrees to the core axis Well developed fracture cleavage at 25 to 50 degrees to the core axis. Predominantly left limb folds axial plane 34 to 44 degrees to the core axis. | | | | | | | | | |
| 169.60 | 175.50 | Rock RQD 100%. | | | | | | | | | |
| 170.00 | 171.50 | 4bes. | 21195 | 170.00 | 171.50 | 1.50 | TR | .69 | n/a | n/a | .69 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 171.50 | 173.00 | 4bea. | 21196 | 171.50 | 173.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 173.00 | 174.50 | 4bea. | 21197 | 173.00 | 174.50 | 1.50 | TR-1 | .55 | n/a | n/a | .55 |
| 175.50 | 185.45 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. | | | | | | | | | |
| | | 60 to 85% chert magnetite beds, 40 to 45% magnetite as laminae and thin beds. | | | | | | | | | |
| | | 25 to 30% f beds, moderately chloritized 0.5 to 1.5 cm, 3 to 5% garnets to 1 mm, beds increasing in thickness toward lower contact. | | | | | | | | | |
| | | 1 to 2% quartz veins parallel to bedding. | | | | | | | | | |
| | | Well preserved bedding at 37 to 60 degrees to the core axis | | | | | | | | | |
| | | Major antiformal axis at 180.2. | | | | | | | | | |
| 175.50 | 185.40 | Rock RQD 90% 5 to 10 cm sections of blocky core. | | | | | | | | | |
| 175.50 | 180.20 | Well developed fracture cleavage at 37 degrees to the core axis, cleavage bedding indicates left limb. | | | | | | | | | |
| 180.20 | 185.20 | Right limb folds axial plane 35 to 60, well developed fracture cleavage at 46 to 62, bedding, cleavage indicates right limb. | | | | | | | | | |
| 185.45 | 198.40 | POTASSIC PACALT 3. | | | | | | | | | |
| | | Dark brown to gray. | | | | | | | | | |
| | | Well developed fracture cleavage at 57 degrees to the core axis. | | | | | | | | | |
| | | Generally devoid of garnets, 2 to 3% interbedded f beds. | | | | | | | | | |
| 185.45 | 198.40 | Rock RQD 85%. | | | | | | | | | |
| 188.40 | 197.50 | GARNET-BIOTITE SCHIST / CHERT-GRUNERITE I.F. 4fab. | | | | | | | | | |
| | | 45 to 50% f beds 0.5 to 1.5 cm 20 to 25% garnets to 3 mm. | | | | | | | | | |
| | | 20 to 25% intensely gruneritized magnetite beds to 1.0 cm. | | | | | | | | | |
| | | 10 to 15% magnetite as laminae in chert beds and mottled remnants in grunerite beds. | | | | | | | | | |
| | | 5 to 10% chert beds to 1 cm. | | | | | | | | | |
| | | 3 to 5% e beds locally gruneritized with amorphous garnets. | | | | | | | | | |
| | | Well preserved bedding at 33 to 49 degrees to the core axis | | | | | | | | | |
| | | Well developed fracture cleavage at 47 to 77 degrees to the core axis. | | | | | | | | | |
| | | Right limb folding axial plane 57 to 65 degrees to the core axis. | | | | | | | | | |
| | | This unit grades into the lower unit over 0.5 meters. | | | | | | | | | |
| 188.40 | 197.50 | Rock RQD 80 to 90%. | | | | | | | | | |
| 191.00 | 192.50 | 4fab. | 21198 | 191.00 | 192.50 | 1.50 | TR | .99 | n/a | n/a | .99 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 340.60 | 344.30 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. As described 321.25 337.2. 3 to 5% quartz pyrrhotite veins with pyrrhotite associated. Well preserved bedding at 42 to 45 degrees to the core axis Well developed fracture cleavage at 25 to 42 degrees to the core axis. 340.60 344.30 Rock RQD 100%. 340.60 341.60 4bf quartz pyrrhotite. | 21257 | 340.60 | 341.60 | 1.00 | 2-3% | 2.29 | n/a | 2.20 | 2.25 |
| 344.30 | 348.85 | CHERT - MAGNETITE IRON FORMATION 4b. 35 to 40% bedded to laminated magnetite. 45 to 50% chert beds to 1.5 cm. 5 to 10% grunerite alteration of magnetite, pale yellow alteration of mgt bed margins and laminae in chert beds. 1 to 2% quartz pyrrhotite veins. Well preserved bedding at 59 degrees to the core axis. Well developed fracture cleavage at 37 to 50 degrees to the core axis. Left limb folding at 42 to 54 degrees to the core axis. 344.30 348.85 Rock RQD 100%. 345.50 347.00 4b quartz pyrrhotite. | 21258 | 345.50 | 347.00 | 1.50 | TR-1 | 2.39 | n/a | n/a | 2.39 |
| 348.85 | 362.00 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. 30 to 35% magnetite as laminae and beds. 30 to 35% chert beds to 1.5 cm. 10 to 15% f beds 0.5 to 1.5 cm, 5% garnets to 2 mm. 5 to 10% e beds green, fine grained, amphibole rich. In proximity to quartz veins amorphous garnet are formed in grunerite matrix. 3 to 5% quartz pyrrhotite veins parallel to fracture cleavage. Well preserved bedding at 33 to 55 degrees to the core axis Well developed fracture cleavage at 43 to 57 degrees to the core axis. Left limb folding to 359.0 axial plane 27 to 33 degrees to the core axis. Right limb folding 359.0 362.0 axial plane 36 to 47 degrees to the core axis. Major antiformal axis at 359.0. 348.85 362.00 Rock RQD 100%. 357.50 359.00 4bfe quartz flooding. 360.50 361.00 4bfe quartz flooding. | 21259 | 357.50 | 359.00 | 1.50 | TR-1 | .34 | n/a | n/a | .34 |
| | | | 21260 | 360.50 | 362.00 | 1.50 | TR-1 | .54 | n/a | n/a | .54 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5553
PAGE NO: 18

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t KERN REJECT AVERAGE

362.00 362.00 END OF HOLE

COPE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORP: 7279.1 6689.6 SURVEYED: YES

PLACER DOME INC.

LOCATION: 21+00N 1+60W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M555A
 PROPERTY: MUSSELWHITE GRUBSTAKE (1873)
 NORTHWESTERN ONTARIO
 SECTION:

POST LOCATION:

AZIMUTH: 48.3

LENGTH: 151.0

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN

DIP: -45.0

CORE SIZE: EQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 1 - 3, 1988

STARTED: JANUARY 30, 1988

COMPLETED: FEBRUARY 3, 1988

CLAIM NO:

PURPOSE: WILDCAIT HOLE EQ LIME

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 32.00 | | -45.0 | 90.00 | | -41.0 |
| 60.00 | | -43.0 | 120.00 | | -39.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|------------|--|--|--|--|--|--|--|--|--|
| .00 | 15.90 | OVERBURDEN | | | | | | | | | |
|-----|-------|------------|--|--|--|--|--|--|--|--|--|

15.90 37.80 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

Typical fine grained to medium grained, grey to locally green felsic volcanic.

5 to 8% bands of sericite alteration to 2 cm generally in proximity to quartz carbonate veins.

1 to 5% carbonate-quartz veins to 2 cm parallel to foliation.

5 to 10% feldspar phenocrysts up to 1 mm stretched parallel to foliation.

Well developed foliation at 61 to 66 degrees to the core axis.

15.90 37.80 Rock RQD 80%.

16.35 16.85 Green higher mafic content.

17.30 17.70 Same as 16.35-16.85.

22.80 23.00 Gravel seam, granitic and diabasic pebbles to 2 cm.

| | | | | | | | | | | | |
|-------|-------|--|-------|-------|-------|------|---|-----|-----|-----|-----|
| 36.80 | 37.80 | A volc. 3 cm massive pyrrhotite band at 37.65. | 21261 | 36.80 | 37.80 | 1.00 | 2 | .10 | n/a | n/a | .10 |
|-------|-------|--|-------|-------|-------|------|---|-----|-----|-----|-----|

37.80 42.90 POTASSIC BASALT

3.

Brown to locally green, fine grained to medium grained, locally bocklets of phlogopite developed parallel to foliation.

15 to 20% carbonate veining generally parallel to foliation, 1 to 2 mm locally to 10 cm with development of garnets.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | WPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|----------------|----------------|----------------|--------------|------------|--------------|------------|-------------|--------------|
| 51.70 | 53.00 | INTRAFORMATIONAL IRON FORMATION 2-4e. As described 42.9 44.35, with 25 to 30% quartz flooding, 3 to 5% pyrrhotite associated. Poorly preserved bedding at 69 degrees to the core axis. 51.70 53.00 Rock RQD 100%. 51.70 53.00 2-4e. | 21265 | 51.70 | 53.00 | 1.30 | 3-5 | 1.98 | n/a | n/a | 1.98 |
| 53.00 | 54.30 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Fine grained, green, 3 to 5% phlogopite developed throughout. Well developed foliation at 55 degrees to the core axis. 53.00 54.30 Rock RQD 100%. | | | | | | | | | |
| 54.30 | 56.55 | INTRAFORMATIONAL IRON FORMATION 2-4e. As described 42.9 44.35. Intense quartz flooding disrupting bedding 20 to 25%. Less mafic volc. Interbedded 10 to 15%. Poorly preserved bedding at 50 degrees to the core axis. 54.30 56.55 Rock RQD 100%. 54.30 55.30 silicified, 2-4e. 55.30 56.55 silicified, 2-4e. | 21266 21267 | 54.30 55.30 | 55.30 56.55 | 1.00 1.25 | 3;5 3;5 | 1.74 6.57 | n/a n/a | 1.97 n/a | 1.86 8.57 |
| 56.55 | 67.60 | PCTAESIC BASALT 3. Fine grained to medium grained, brown to locally green blue 10 to 15% carbonate veins to 5 mm. Well developed foliation at 50 to 69 degrees to the core axis. 64.65 to 65.55 2-4e as described above. 56.55 67.60 Rock RQD 100%. 64.65 65.55 2-4e quartz flooding. | 21268 | 64.65 | 65.55 | .90 | 5;8 | 1.70 | n/a | n/a | 1.70 |
| 67.60 | 68.65 | GARNET - Biotite schist 4f. 65 to 70% f beds, 1 cm, containing 10 to 15% garnet to 1 mm 10 to 15% chert beds to 5 mm. 10 to 15 gruneritized e beds with remnants of green amphibole rich material. This unit is gradational over 20 cm into 4ea. Well preserved bedding at 65 degrees to the core axis. 67.60 68.65 Rock RQD 100%. 67.60 68.65 4f. | 21269 | 67.60 | 68.65 | 1.05 | TR | .14 | n/a | n/a | .14 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| 68.65 | 71.50 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. 65 to 70% intensely gruneritized ea beds with 15 to 20% poorly formed amorphous garnet clusters to 3 mm. 20 to 25% blue chert beds 1 to 2 cm. 2 to 3% f beds to 2 cm grunerite with garnet clusters to 3 mm. 1 to 2% green amphibole rich remnants in ea beds. Poorly preserved bedding at 45 to 60 degrees to the core axis. Well developed fracture cleavage at 51 degrees to the core axis. Strongly folded axial plane 34 to 54 left limb. 68.65 71.50 Rock RQD 100%. | | | | | | | | | |
| 68.65 | 70.15 | 4ea. | 21270 | 68.65 | 70.15 | 1.50 | TR | .29 | n/a | n/a | .29 |
| 70.15 | 70.65 | 4ea. | 21271 | 70.15 | 70.65 | .50 | TR | .14 | n/a | n/a | .14 |
| 70.65 | 71.50 | 4ea. | 21272 | 70.65 | 71.50 | .85 | TR | .35 | n/a | n/a | .35 |
| 71.50 | 79.55 | GARNET-AMPHIBOLE I.F. / CHERT-MAGNETITE-GRUNERITE I.F. 4eba. 5 to 10% magnetite as laminae and beds in chert, mottled remnants in gruneritized beds and disseminated in e beds. 10 to 15% chert beds to 1 cm. 10 to 15% grunerite as alteration of magnetite and e beds. 30 to 35% e beds, green amphibole rich, as remnants and whips in ea beds and quartz veins, as well as beds to 1.5 cm with euhedral garnet to 3 mm, grunerite alteration on margins of beds, locally forming ea beds. 5 to 10% f beds to 1 cm, containing euhedral garnet to 3 mm 16 to 15% blue quartz as flooding disrupting bedding. Pyrrhotite associated with blue quartz. Poorly to moderately preserved bedding at 45 to 64 degrees to the core axis. Well developed fracture cleavage at 62 to 67 degrees to the core axis. Left limb folding to 73.0 axial plane 70 degrees to the core axis. Right limb folding to lower contact axial plane 48 to 60 degrees to the core axis. Antiformal closer between 73.0 75.0. Intense quartz flooding begins at 73.1. 71.50 79.55 Rock RQD 70 to 80%. | | | | | | | | | |
| 71.50 | 72.50 | 4eba. | 21273 | 71.50 | 72.50 | 1.00 | TR | .05 | n/a | n/a | .05 |
| 72.50 | 73.50 | 4eba, quartz flooding 73.0 73.5. | 21274 | 72.50 | 73.50 | 1.00 | 2-3 | .48 | n/a | n/a | .48 |
| 73.50 | 74.50 | 4eba 10 to 15% quartz. | 21275 | 73.50 | 74.50 | 1.00 | 3-5 | 3.37 | n/a | n/a | 3.37 |
| 74.50 | 75.50 | 4ea 2 to 3% quartz. | 21276 | 74.50 | 75.50 | 1.00 | 1-2 | .14 | n/a | n/a | .14 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

pyrrhotite associated.
Several veinlets of euhedral arsenopyrite.
5 to 10% f beds variable in size 2 to 5 mm.
Well preserved bedding at 41 to 54 degrees to the core axis
Well developed fracture cleavage at 48 to 58 degrees to the core axis.
Right limb folding axial plane 45 to 55 degrees to the core axis.

| | | | | | | | | | | | | |
|-------|-------|--|-------|-------|-------|------|------|------|-----|-----|------|--|
| 89.00 | 90.90 | Rock RQD 100%. | | | | | | | | | | |
| 90.50 | 92.00 | 35% quartz veins. | 21284 | 90.50 | 92.00 | 1.50 | TR-1 | .97 | n/a | .94 | .96 | |
| 92.00 | 93.50 | 15% quartz veins. | 21285 | 92.00 | 93.50 | 1.50 | TR | .98 | n/a | n/a | .98 | |
| 93.50 | 95.00 | 25% quartz veins. Arsenopyrite veinlet. | 21286 | 93.50 | 95.00 | 1.50 | TR | .34 | n/a | n/a | .34 | |
| 95.00 | 96.50 | 49% quartz veins. Arsenopyrite veinlets. | 21287 | 95.00 | 96.50 | 1.50 | 1-2 | 1.60 | n/a | n/a | 1.60 | |
| 96.50 | 98.00 | 25% quartz veins. | 21288 | 96.50 | 98.00 | 1.50 | 1-2 | .10 | n/a | n/a | .10 | |

98.90 102.65 CHERT - MAGNETITE IRON FORMATION

4b.
80 to 85% magnetite laminae.
5 to 10% chert beds to 1.0 cm randomly throughout.
3 to 5% quartz pyrrhotite veins, trace pyrrhotite associated, veins to 1 cm.
Well preserved bedding at 38 to 53 degrees to the core axis
Well developed fracture cleavage at 62 to 80 degrees to the core axis.
Intense folded, left limb folds axial plane 53 degrees to the core axis.
98.91 102.65 Rock RQD 100%.

102.65 110.00 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4b-f.
60 to 65% magnetite as laminae and thin beds.
15 to 20% f beds generally 3 to 4 mm, locally to 1 cm where chert beds are concentrated.
f beds contain euhedral garnet to 3 mm.
5 to 10% chert beds, concentrated in lengths of 10 to 20 cm containing few magnetite laminae or beds.
3 to 5% quartz pyrrhotite veins to 3 cm, trace to 1% pyrrhotite associated.
Well preserved bedding at 43 to 49 degrees to the core axis
Well developed fracture cleavage at 50 to 57 degrees to the core axis.
102.65 110.00 Rock RQD 100%.
104.50 106.00 4b-f quartz pyrrhotite.

| | | | | | | | | | | | | |
|-------|--------|--------|------|------|-----|-----|-----|-----|--|--|--|--|
| 21289 | 104.50 | 106.00 | 1.50 | TK-1 | .55 | n/a | n/a | .55 | | | | |
|-------|--------|--------|------|------|-----|-----|-----|-----|--|--|--|--|

110.00 116.15 GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRÜNERITE I.F.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

4fe.

25 to 30% f beds increasing in size and concentration toward lower contact.

F beds 3 mm to 3 cm, containing 5 to 10% euhedral garnets to 3 mm.

15 to 20% green, amphibole rich e beds as remnants of gruneritized beds and lightly gruneritized beds. E beds are concentrated toward top of unit, decreasing toward lower contact.

20 to 25% grunerite alteration of magnetite and e beds forming ea beds.

Grunerite content consistent throughout unit.

10 to 15% blue chert beds 1 to 1.5 cm, locally containing magnetite laminae.

5 to 8% magnetite as mottled remnants in gruneritized beds and disseminated in e beds.

3 to 5% carbonate as veins generally within chert beds.

Well preserved bedding at 31 to 55 degrees to the core axis

Moderately to poorly developed fracture cleavage at 56 to 63 degrees to the core axis.

Right limb folding, axial plane 50 to 65 degrees to the core axis.

110.00 111.50 4fe.

21290 110.00 111.50 1.50 TR .40 n/a n/a .40

110.01 110.15 Rock RQD 100%.

111.50 113.00 4fe.

21291 111.50 113.00 1.50 TR .15 n/a n/a .15

113.00 114.50 4fe.

21292 113.00 114.50 1.50 TR .10 n/a n/a .10

114.50 116.00 4fe.

21293 114.50 116.00 1.50 TR .05 n/a n/a .10

116.00 117.50 4fe.

21294 116.00 117.50 1.50 TR .20 n/a n/a .20

117.50 118.15 4fe.

21295 117.50 118.15 .65 TR .05 n/a n/a .05

118.15 125.30 GARNET-AMPHIBOLE-CHEFT-GRUNERITE IRON FORMATION

4fe.

40 to 45% ea beds, moderately formed. 15 to 20% amorphous garnet clusters to 1 cm in grunerite matrix. Ea beds become less well formed toward lower contact.

25 to 30% green amphibole rich e beds, as remnants of ea beds and whole beds with insipient garnet clusters.

10 to 15% remobilized chert beds and or quartz veins parallel to bedding.

3 to 5% f beds distributed randomly throughout unit.

Carbonate veins associated with quartz.

Pyrrhotite associated with remobilized quartz and ea beds.

Well preserved bedding at 54 to 70 degrees to the core axis

Right limb folding 55 to 70 degrees to the core axis.

118.15 125.50 Rock RQD 100%.

118.15 119.15 4ea.

21296 118.15 119.15 1.00 TR .10 n/a n/a .10

119.15 120.15 10 to 15% blue quartz.

21297 119.15 120.15 1.00 3-5 2.51 n/a n/a 2.51

120.15 121.15 5 to 10% blue quartz.

21298 120.15 121.15 1.00 2-3 .69 n/a n/a .69

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | REGRUN | REJECT | AVERAGE | |
|--------|--------|---|--------|--------|--------|--------|------|--------|--------|--------|---------|--|
| 121.15 | 122.15 | 10 to 15% blue quartz. | 21299 | 121.15 | 122.15 | 1.00 | 5-8 | 1.81 | n/a | 1.12 | 1.47 | |
| 122.15 | 123.15 | 4ea. | 21300 | 122.15 | 123.15 | 1.00 | TR-1 | .15 | n/a | n/a | .15 | |
| 123.15 | 124.15 | 4ea. | 21301 | 123.15 | 124.15 | 1.00 | TR | .09 | n/a | n/a | .09 | |
| 124.15 | 125.30 | 4ea. | 21302 | 124.15 | 125.30 | 1.15 | TR-1 | .05 | n/a | n/a | .05 | |
| 125.30 | 134.55 | GARNET-AMPHIBOLE I.F. / GARNET-BIOTITE SCHIST 4ef. 40 to 45% e beds variable in width generally 0.5 to 1.0 cm, containing 5 to 10% garnets to 3 mm. 25 to 30% f beds, generally 1 to 2 cm, containing 10 to 15% garnets 1 to 2 mm. f beds tend to be more concentrated in top 1.5 meters and lower 2 meters. 10 to 15% magnetite as beds and mottled remnants in gruneritized beds. Magnetite content tends to increase toward lower contact. 5 to 10% grunerite alteration of magnetite and e beds, locally forming moderately developed ea beds. Well preserved bedding at 46 to 56 degrees to the core axis, increasing toward lower contact. Moderately developed fracture cleavage at 55 to 63 degrees to the core axis. Right limb folding in top 4 meters of unit axial plane 55 degrees to the core axis. 125.30 134.55 Rock RQD 100%. | | | | | | | | | | |
| 125.30 | 126.80 | 4fa. | 21303 | 125.30 | 126.80 | 1.50 | TR | .01 | n/a | .05 | .03 | |
| 126.80 | 128.30 | 4ef. | 21304 | 126.80 | 128.30 | 1.50 | TR | .05 | n/a | n/a | .05 | |
| 129.80 | 131.30 | 4ef. | 21305 | 129.80 | 131.30 | 1.50 | TR | .01 | n/a | n/a | .01 | |
| 132.80 | 134.30 | 4fe. | 21306 | 132.80 | 134.30 | 1.50 | TR | .20 | n/a | n/a | .20 | |
| 134.55 | 144.10 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. 55 to 60% magnetite as thin beds and laminae, beds 1 to 3 mm. 30 to 35% f beds, generally 0.5 to 1 cm up to 3 cm, with 5 to 10% garnets to 1 mm. 3 to 5% grunerite alteration of magnetite. 2 to 3% quartz veins generally parallel to bedding. Well preserved bedding at 39 to 59 degrees to the core axis Well developed fracture cleavage at 65 degrees to the core axis. 134.55 144.10 Rock RQD 100%. | | | | | | | | | | |
| 144.10 | 154.35 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4bah. 20 to 25% magnetite as beds, decreasing in concentration to bottom of unit as grunerite alteration increases. | | | | | | | | | | |

PLACER DOME INC.

REF COR: 8655.4 5532.9 SHELVED: YES

DIAMOND DRILL RECORD

LOCATION: 29+00N 1+35W GRID: EAST

HOLE NO: M5555

PROPERTY: MUSSELWHITE GRUBSTAKE
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 158.0

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 4, 1988

STARTED: JANUARY 31, 1988

COMPLETED: FEBRUARY 3, 1988

CLAIM NO:

PURPOSE: WILD CAT HOLE PQ LIMB

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -43.0 | 120.00 | | -41.0 |
| 60.00 | | -43.0 | 150.00 | | -39.0 |
| 90.00 | | -41.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|--|-------|------------|--|--|--|--|--|--|--|--|--|
| 0.00 | 36.70 | OVERBURDEN | | | | | | | | | |
| 4 Meters boulders at bedrock OB interface. | | | | | | | | | | | |

| | | | | | | | | | | | |
|---|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 36.70 | 40.60 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
| Volcanic. | | | | | | | | | | | |
| Fine grained to medium grained, grey to grey brown. | | | | | | | | | | | |
| 5 to 8% phlogopite developed parallel to foliation. | | | | | | | | | | | |
| 2 to 3% carbonate veins parallel to foliation. | | | | | | | | | | | |
| Well foliated at 76 degrees to the core axis. | | | | | | | | | | | |
| 36.70 | 40.60 | Rock RQD 0 | core breaking parallel to foliation, with local blocky sections. | | | | | | | | |
| 40.51 | 44.50 | Rock RQD 75% | | | | | | | | | |

| | | | | | | | | | | | |
|---|-------|--|--|--|--|--|--|--|--|--|--|
| 40.60 | 44.50 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS | | | | | | | | | |
| 3-B. | | | | | | | | | | | |
| Brown to green, fine grained to medium grained, with well developed foliation at 59 to 70 degrees to the core axis. | | | | | | | | | | | |
| 5 to 10% carbonate and quartz veins parallel to foliation, 1 to 5 mm. | | | | | | | | | | | |
| Phlogopite well developed in areas of intense carbonate veining. | | | | | | | | | | | |

| | | | | | | | | | | | |
|--|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 44.50 | 50.75 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
| A Volcanic. | | | | | | | | | | | |
| Grey to light brown, fine grained, with well developed foliation at 59 to 67 degrees to the core axis. | | | | | | | | | | | |
| 3 to 5% carbonate veins developed parallel to foliation | | | | | | | | | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 86.00 | 104.35 | Rock 80% breaking parallel to foliation. | | | | | | | | | |
| 91.00 | 95.00 | Silicified A Volc. | | | | | | | | | |
| 92.40 | 95.50 | Rock RQD 40% blocky core. | | | | | | | | | |
| 104.35 | 109.50 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
| | | Fine grained to medium grained, green. 5 to 10% medium grained phlogopite developed parallel to foliation in proximity to cb vnl. 5 to 10% carbonate as veins 3 mm to 10 cm. Well developed foliation at 75 to 80 degrees to the core axis. | | | | | | | | | |
| 104.35 | 109.50 | Rock RQD 100%. | | | | | | | | | |
| 106.50 | 120.45 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION | | | | | | | | | |
| | | 4e(a). 25 to 30% green, amphibole rich e beds and remnants of gruneritized beds. 5 to 10% euhedral to amorphous garnets to 5 mm formed in e beds. 20 to 25% well formed ea beds, amorphous garnet clusters to 1 cm, generally to 5 mm. 30 to 35% chert beds 0.5 to 1.0 cm. 5 to 10% magnetite as laminae in chert beds, mottled remnants in gruneritized beds and disseminated in e beds. Magnetite content increases toward lower contact. 3 to 5% f beds concentrated toward lower contact. 3 to 5% blue quartz, generally as poorly defined veins, locally disrupting bedding. Pyrrhotite as veinlets in quartz and e beds and associated with ea beds. Moderately to well preserved bedding at 70 to 87 degrees to the core axis. Moderately developed fracture cleavage at 79 to 90 degrees to the core axis. Generally left limb foliated, axial plane 79 to 90 degrees to the core axis. | | | | | | | | | |
| 108.80 | 109.80 | 4e 3 to 5% quartz flooding. | 21319 | 108.80 | 109.80 | 1.00 | 2-3 | 1.59 | n/a | n/a | 1.59 |
| 108.80 | 120.45 | Rock RQD 100%. | | | | | | | | | |
| 109.80 | 110.80 | 4e(a). | 21320 | 109.80 | 110.80 | 1.00 | TR-1 | .34 | n/a | n/a | .34 |
| 110.80 | 111.80 | 4e(a). | 21321 | 110.80 | 111.80 | 1.00 | TR | .14 | n/a | .10 | .12 |
| 111.80 | 112.80 | 4e(a) 1 speck visible gold. | 21322 | 111.80 | 112.80 | 1.00 | 2-3 | 1.33 | n/a | 1.34 | 1.33 |
| 112.80 | 113.80 | 10 to 15% quartz flooding 4ea. | 21323 | 112.80 | 113.80 | 1.00 | 5-8 | .24 | n/a | .34 | .29 |
| 113.80 | 114.80 | 4e(a). | 21324 | 113.80 | 114.80 | 1.00 | TR | 1.04 | n/a | n/a | 1.04 |
| 114.80 | 115.80 | 4e(a). | 21325 | 114.80 | 115.80 | 1.00 | TR-1 | .10 | n/a | n/a | .10 |
| 115.80 | 116.80 | 4ea 1 speck visible gold. | 21326 | 115.80 | 116.80 | 1.00 | 1-2 | .54 | n/a | .87 | .70 |
| 116.80 | 117.80 | 4ea. | 21327 | 116.80 | 117.80 | 1.00 | TF | .44 | n/a | n/a | .44 |
| 117.80 | 118.80 | 4ea 5% quartz flooding. | 21328 | 117.80 | 118.80 | 1.00 | TR-1 | 1.27 | n/a | n/a | 1.27 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPc | Au g/t | REURN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| 148.50 | 151.70 | CHERT-MAGNETITE I.F. / CHERT-GRUNEFITE I.F. 4ba(h). As described 143.8 147.45 with 5 to 8% pyrrhotite as stringers fracture fillings and one massive band with chert fragments. Moderately preserved bedding at 70 to 80 degrees to the core axis. Fracture cleavage poorly developed 25 to 40 degrees to the core axis. 148.50 151.70 Rock RQD 100%. | | | | | | | | | |
| 149.00 | 150.50 | 4bah. | 21342 | 149.00 | 150.50 | 1.50 | 3-5 | .24 | n/a | n/a | .24 |
| 150.50 | 151.70 | 4bah. | 21343 | 150.50 | 151.70 | 1.20 | 15-20 | .10 | n/a | .10 | .10 |

151.70 153.00 BASALT
2.
Typical fine grained gray to green with well developed foliation at 50 to 65 degrees to the core axis.
3 to 5% phlogopite developed parallel to foliation.
Rqd poor, breaking parallel to foliation and at subparallel angles to core axis.

151.70 153.00 Rock RQD 30%.

153.00 158.00 END OF HOLE

CORE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORG: 7497.3 6481.0 SURVEYED: YES

PLACER DOME INC.

LOCATION: 24+00N 1+75W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: NUS356
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.2 LENGTH: 170.6 ELEVATION: 5302.5 LOGGED BY: R. STEWART
DIP: -45.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC DATE LOGGED: FEBRUARY 6-8, 1988
STARTED: FEB 3, 1988 COMPLETED: FEB 7, 1988 CLAIM NO:

PURPOSE: TO TEST FOLD CLOSURE ON PQ LIMB AT 5250m EL.

| DIP TESTS (corrected) | | | | | |
|-----------------------|---------|-------|--------|---------|-------|
| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
| 30.00 | | -43.0 | 120.00 | | -37.0 |
| 60.00 | | -41.0 | 150.00 | | -35.0 |
| 90.00 | | -38.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|
| .00 | 15.25 | OVERBURDEN Boulders, sand and gravel. | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 15.25 | 56.00 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

A.
Typical fine grained, massive to locally compositionally banded volcanic, composed of quartz feldspar with fine grained biotite, sericite.
Up to 5% quartz-carbonate plus or minus tourmaline and/or rare garnet veins parallel to foliation.
Veins occasionally surrounded by medium to coarse grained muscovite.
Foliation at 65 to 70 degrees to the core axis.
Core blocky toward overburden interface, improves down hole fractures easily along foliation planes.
Fine grained euhedral pyrite stringers parallel to to foliation occur locally.
15.25 32.00 Rock RQD 55%.
32.00 56.00 Rock RQD 75%.
41.90 42.50 A 2 to 3% pyrite stringers.

| | | | | | | | | |
|------|-------|-------|------|---|-----|-----|-----|-----|
| 2134 | 41.00 | 42.50 | 1.50 | 0 | .05 | n/a | n/a | .05 |
|------|-------|-------|------|---|-----|-----|-----|-----|

| | | | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|
| 56.00 | 89.40 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS | | | | | | | | | |
|-------|-------|--|--|--|--|--|--|--|--|--|--|

3-8.
Fine to medium grained brownish phlogopite rich basalt with abundance of narrow quartz-carbonate veinlets and threads throughout.
10 to 15% hornblende rich segments appear greenish brown with discrete phlogopite seams.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | PERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | bedding plane contacts. Up to 5% quartz-carbonate veinlets parallel to foliation. Bedding at 30 to 40 degrees to the core axis. Moderately well developed fracture cleavage at 50 to 55 degrees to the core axis. Trace to nil sulphide. Blocky core, possible fault or fracture zone. | | | | | | | | | |
| | | 98.70 103.45 Rock RQD 20%. | 21370 | 98.80 | 99.50 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| | | 98.00 99.50 4fb. | 21371 | 101.95 | 103.45 | 1.50 | | .05 | n/a | n/a | .05 |
| | | 101.95 103.45 4fb. | | | | | | | | | |
| 103.45 | 113.35 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. Well bedded varying from mm size to 5.0 coarse. Composed of 50% f beds containing 20 to 50% subhedral garnets typically up to 2.0 mm supported by fine grained brown biotite. Interbedded with 30% laminated chert magnetite and 10% garnet grunerite hornblende ea beds. Ea beds increase to 25% toward gradational lower contact with corresponding decrease in f. Trace to nil sulphides. Bedding at 40 to 60 degrees to the core axis. Common closed to tight right limb minor folds with axial plane at 60 degrees to the core axis. | | | | | | | | | |
| | | 103.45 113.35 Rock RQD 80%. | | | | | | | | | |
| | | 103.45 104.95 4fb. | 21372 | 103.45 | 104.95 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 106.00 109.50 4fb. | 21373 | 108.00 | 109.50 | 1.50 | TR | .01 | n/a | .05 | .03 |
| | | 110.35 111.85 4fb. | 21374 | 110.35 | 111.85 | 1.50 | TR | .05 | n/a | n/a | .05 |
| | | 111.95 113.35 4fb. | 21375 | 111.85 | 113.35 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 113.35 | 123.00 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE I.F. 4eab. Very well bedded iron formation, similar to 98.55 to 98.0 but with 30% weakly gruneritized ea beds and 25 to 30% well preserved f beds. Bedding consistent at 55 to 60 degrees to the core axis. Pervasive minor folding to 118.0 m. Right limb and M-style folding to 117.5 followed by closed left limb folds. Axial plane at 60 to 65 degrees to the core axis. Overall trace to nil sulphide except where noted in samples | | | | | | | | | |
| | | 113.35 123.00 Rock RQD 85%. | | | | | | | | | |
| | | 113.35 114.85 4eab. | 21376 | 113.35 | 114.85 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 116.00 117.50 4eab. | 21377 | 116.00 | 117.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 119.00 120.50 4f+ea. | 21378 | 119.00 | 120.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 122.00 123.50 4eab. | 21379 | 122.00 | 123.50 | 1.50 | TR | .10 | n/a | n/a | .10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | REMN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|------|--------|---------|
| | | I.F. 4eab. 50% Poorly developed ea beds. 33% Laminated chert magnetite (t) beds. 15% f beds. 2 to 3% fine grained disseminated pyrrhotite associated with ea beds. Bedding at 60 degrees to the core axis. | | | | | | | | | |
| | | 150.40 152.65 Rock RQD 85%. | | | | | | | | | |
| | | 150.40 151.50 4eab. | 21392 | 150.40 | 151.50 | 1.10 | 2-3 | 15.21 | n/a | 15.50 | 15.36 |
| | | 151.50 152.65 4eab. | 21393 | 151.50 | 152.65 | 1.15 | 1-2 | 4.43 | n/a | n/a | 4.43 |
| 152.65 | 163.60 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4b(a). 60 to 70% interbedded to interlaminated chert magnetite with 10% grunerite occurring as. Thin seams along bedding plane contacts grunerite content increases to 25%. Toward lower contact forming diffuse bands with mottled magnetite. 15 to 20% garnet biotite hornblende fe beds up to 0.5 cm throughout. 5% Quartz-carbonate veinlets parallel to foliation. Core extremely blocky to 161.0m. Randomly oriented spaced fractures healed by chlorite carbonate with minor euhedral pyrite. Possible fault zone. 1 to 2% euhedral pyrite parallel to bedding. Trace pyrrhotite associated with quartz veins. Bedding at 50 to 60 degrees to the core axis. Lower contact sharp at 45 degrees to the core axis. Bedding at 50 degrees to the core axis. | | | | | | | | | |
| | | 152.65 154.00 4b(a). | 21394 | 152.65 | 154.00 | 1.35 | TR | 2.97 | n/a | 3.12 | 3.05 |
| | | 154.00 155.50 4b(a). | 21395 | 154.00 | 155.50 | 1.50 | TR-1 | .29 | n/a | n/a | .29 |
| | | 155.50 157.00 4b(a). | 21396 | 155.50 | 157.00 | 1.50 | TR-1 | 2.31 | n/a | n/a | 2.31 |
| | | 157.00 158.50 4b(a). | 21397 | 157.00 | 158.50 | 1.50 | TR-1 | 2.05 | n/a | n/a | 2.05 |
| | | 159.50 160.00 4b(a). | 21398 | 159.50 | 160.00 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| | | 160.00 161.50 4b(a). | 21399 | 160.00 | 161.50 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| | | 161.50 162.10 4b(a). | 21400 | 161.50 | 162.10 | .60 | TR-1 | .01 | n/a | n/a | .01 |
| | | 162.10 163.60 Rock RQD 75%. | | | | | | | | | |
| | | 162.10 163.60 SULFIDE FACIES IRON FORMATION 4hb pyrrhotite rich chert magnetite grunerite iron formation with 33% fine grained disseminated pyrrhotite locally completely replacing primary components. Pyrrhotite bands partially obliterate bedding trace and supporting irregular chert fragments 15% narrow f beds. | | | | | | | | | |
| | | 162.10 163.60 4hb. | 21401 | 162.10 | 163.60 | 1.50 | 35% | .01 | n/a | .01 | .01 |

REF LOG: 8006.3 6304.8 SURVEYED: YES

PLACER DOME INC.

LOCATION: 31+00N 1+35W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5557
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 215.0

ELEVATION: 5302.5

LOGGED BY: R. STEWART, M. BECKETT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 05 - 07, 1988

STARTED: FEB. 03, 1988

COMPLETED: FEB 07, 1988

CLAIM NO:

PURPOSE: FOLLOWUP M5556 AT 5225m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -47.0 | 150.00 | | -39.0 |
| 60.00 | | -43.0 | 180.00 | | -36.0 |
| 90.00 | | -42.0 | 210.00 | | -33.0 |
| 120.00 | | -42.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|
| .00 | 16.80 | OVERBURDEN Boulders, sand and gravel. | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|

18.80 78.40 FELSIC TO INTERMEDIATE VOLCANICS

A.
Typical fine grained, massive to locally compositional banding felsic volcanic composed of quartz feldspar biotite with minor sericite along foliation planes.

Up to 5% quartz-carbonate plus or minus minor tourmaline veins parallel to foliation.

Locally 2 to 3% euhedral pyrite stringers parallel to foliation.

Foliation at 60 to 65 degrees to the core axis.

18.80 32.00 Rock EQD 80% blocky core 16.8 to 20.0.

32.00 43.70 As in text, but with 3 to 5% pyrite stringers and rare replacement texture; also in this interval, sericite content up to 15 to 20% as bands less than or equal to 3 cm.

32.01 43.70 Rock EQD 85%.

41.00 42.50 A VOLC, 5% pyrite.

| | | | | | | | | |
|-------|-------|-------|------|---|-----|-----|-----|-----|
| 20129 | 41.00 | 42.50 | 1.50 | 0 | .34 | n/a | n/a | .34 |
|-------|-------|-------|------|---|-----|-----|-----|-----|

43.70 51.80 Similar to text but with less than or equal to 3% sericite as rare bands less than or equal to 5 mm. 1 to 3% white feldspar crystals up to 1 mm oriented parallel to foliation. Core blocky with local gravelly sections in this interval.

43.71 51.80 Rock EQD 70 to 75%.

51.30 61.50 Similar to 32.0 to 43.7, foliated at 60 to 65

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5557
PAGE NO: 2

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | degrees to the core axis. Quartz vein from 59.15 to 59.4 ; barren. Rare spiral garnets up to 1.0 cm diameter set in chert matrix indicate sinistral slip in unit; also rare poorly developed yellow staurolite crystals up to 3 mm diameter. | | | | | | | | | |
| 51.80 | 53.30 | A VOLC, 5 to 7% pyrite stringers. | 20130 | 51.80 | 53.30 | 1.50 | 0 | .53 | n/a | n/a | .53 |
| 51.81 | 61.50 | Rock RQD 80 to 85% (blocky from 54.3 to 54.5). | | | | | | | | | |
| 59.00 | 59.50 | A VOLC, white quartz vein, 1% pyrite not associated with quartz. | 20131 | 59.00 | 59.50 | .50 | 0 | .20 | n/a | n/a | .20 |
| 61.50 | 68.00 | Similar to 43.7 to 51.8 foliated at 62 to 72 degrees to the core axis. | | | | | | | | | |
| 61.51 | 68.00 | Rock RQD 85 to 90% (gravelly from 62.3 to 62.5) | | | | | | | | | |
| 68.00 | 78.40 | FAULT ZONE similar to main text but core brecciated over 50 cm to 1.5 m sections. Considerable carbonate infilling associated with potassic alteration extending into surrounding rock up to 1.0 cm (pink potassic alteration locally extends several cm along foliation planes); best developed in upper 2.0 m of subunit. Occasional pyrite stringers exhibit rusty staining. Well foliated at 56 to 60 degrees to the core axis. | | | | | | | | | |
| 68.01 | 78.40 | Rock RQD 35 to 40%. | | | | | | | | | |
| 78.40 | 92.50 | INTERMEDIATE TO MAFIC VOLCANICS B VOLCANIC. Typical fine grained medium green feldspar amphibole volcanic package. Contains 5 to 10% medium grained brown phlogopite, locally developed, especially in upper 4.0 m of unit. 2 to 4% 2-4ea beds, locally developed over 10 to 50 cm, associated with trace to 1% pyrrhotite as rare interstitial blebs between garnets. Well foliated at 65 degrees to the core axis at upper contact, but increasing downhole to 71 to 84 degrees to the core axis. | | | | | | | | | |
| 78.40 | 80.90 | As in text but still under the influence of the above fault zone. 10 to 15% carbonate and carbonate-quartz veins with occasional bleached core. Locally brecciated over 10 to 30 cm sections with carbonate and pyrite infilling. | | | | | | | | | |
| 78.40 | 79.10 | B-3, carbonate-quartz, 5 to 10% pyrite veins. | 20132 | 78.40 | 79.10 | .70 | 0 | .43 | n/a | n/a | .43 |
| 78.41 | 80.90 | Rock RQD 75 to 80%. | | | | | | | | | |
| 79.90 | 80.50 | B, carbonate, 15% pyrite veins and infilling. | 20133 | 79.90 | 80.50 | .60 | 0 | 8.88 | n/a | 7.91 | 8.40 |
| 80.90 | 92.50 | Rock RQD 80 to 85%. | | | | | | | | | |
| 82.70 | 83.40 | 2-4ea, quartz-carbonate veins. | 20134 | 82.70 | 83.40 | .70 | 2-4 | 2.47 | n/a | n/a | 2.47 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH gPo Au g/t RERUN REJECT AVERAGE

92.40 97.80 Rock RQD 95 to 100%.

92.50 97.80 POTASSIC BASALT

3.
70 to 80% medium grained brown phlogopite with 5 to 10% fine grained medium green B volc material disseminated through unit.
Rare chert beds less than or equal to 7 mm, boudinaged.
10 to 15% carbonate-quartz veining up to 6.0 cm; veins barren; sub parallel to foliation.
Well foliated at 64 to 70 degrees to the core axis.

97.80 104.10 INTRAFORMATIONAL IRON FORMATION

2-4e.
45 to 50% B volcanic material, containing 10 to 15% medium grained phlogopite. Volcanic component organized into bands less than or equal to 1.0 m.
Interbanded with 30 to 35% 'ea' beds, moderately to locally heavily gruneritized. Beds up to 10 cm, containing 10 to 15% 0.6 to 3.0 cm subhedral to amorphous garnets.
5 to 10% f beds, locally developed, up to 14 cm wide, and containing trace to 1% white carbonate grains less than or equal to 1.0 mm. Garnets 2 to 4%, up to 1.0 cm diameter.
15 to 20% quartz-carbonate veins, 1 to 11 cm wide, sub parallel to banding; associated with 1 to 3%, locally to 5%, pyrrhotite as poorly developed sulphide cement and occasional veinlets and stringers.
Occasional bedding disruption and mild silicification over 20 to 25 cm.
Moderately to well banded at 71 degrees to the core axis, increasing rapidly to 80 to 90 degrees to the core axis from 99.0 to 99.7, and then decreasing gradually downhole to 62 degrees to the core axis at lower contact.
NB: this unit appears to be a contact unit between the volcanic material and the iron formation.

97.80 104.10 Rock RQD 35%.

97.80 98.80 2-4e, quartz veins, 1% pyrite.

20135 97.80 98.80 1.00 1-3 .60 n/a n/a .60

98.80 99.80 2-4e, quartz veins, 1% pyrite.

20136 98.80 99.80 1.00 1-3 1.15 n/a n/a 1.15

99.80 100.80 2-4ea, silicified.

20137 99.80 100.80 1.00 3-5 .54 n/a n/a .54

100.80 101.80 2-4e, quartz veins.

20138 100.80 101.80 1.00 1-2 .20 n/a n/a .20

101.80 102.80 2-4e, quartz veins.

20139 101.80 102.80 1.00 1-2 .15 n/a n/a .15

102.80 104.10 2-4ea, quartz veins.

20140 102.80 104.10 1.30 1-2 .44 n/a n/a .44

104.10 115.60 GARNET-AMPHIBOLE-CHERT-GRUNCRITE IRON FORMATION

4ea.

50 to 60% moderately to locally heavily gruneritized 'ea'

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPs | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|--|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | beds, less than or equal to 30 cm, with 15 to 20% 0.4 to 2.0 cm subhedral to amorphous garnets. | | | | | | | | | |
| | | 15 to 20% garnet poor amphibole beds, less than or equal to 20 cm interbanded with 'ea' beds. | | | | | | | | | |
| | | 20 to 25% quartz, generally as silicified zone throughout the entire unit, and producing moderate to intense bedding disruption. Associated with 5 to 8% pyrrhotite, locally to 15% as moderately developed sulphide cement in 'ea' beds, and occasional sulphide replacement texture in garnet poor beds. | | | | | | | | | |
| | | Moderately bedded at 60 to 80 degrees to the core axis, decreasing to 58 degrees to the core axis at lower contact. | | | | | | | | | |
| | | 104.10 115.60 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 104.10 105.10 4ea, silicified. | 20141 | 104.10 | 105.10 | 1.00 | 5-8 | 2.46 | n/a | 2.92 | 2.69 |
| | | 105.10 106.10 4ea, silicified. | 20142 | 105.10 | 106.10 | 1.00 | 5-10 | 1.38 | n/a | 1.58 | 1.48 |
| | | 106.10 107.10 4ea, silicified, quartz veins. | 20143 | 106.10 | 107.10 | 1.00 | 3-5 | .20 | n/a | n/a | .20 |
| | | 107.10 108.10 4ea, silicified. | 20144 | 107.10 | 108.10 | 1.00 | 5-7 | .63 | n/a | .67 | .65 |
| | | 108.10 109.10 4ea, silicified. | 20145 | 108.10 | 109.10 | 1.00 | 10-15 | 4.05 | n/a | 4.28 | 4.17 |
| | | 109.10 110.10 4ea, silicified. | 20146 | 109.10 | 110.10 | 1.00 | 5-10 | 3.11 | n/a | 2.98 | 3.05 |
| | | 109.40 109.80 Similar to text, but with trace to 1% carbonate threads oriented at 80 to 90 degrees to bedding. | | | | | | | | | |
| | | 110.10 111.10 4ea, silicified, quartz veins, mafic wedge. | 20147 | 110.10 | 111.10 | 1.00 | 3-5 | .73 | n/a | .07 | .40 |
| | | 110.75 111.21 Mafic wedge of potassic basalt, well foliated at 64 degrees to the core axis. | | | | | | | | | |
| | | 111.10 112.10 4ea, silicified. | 20148 | 111.10 | 112.10 | 1.00 | 5-7 | 3.63 | n/a | 3.43 | 3.53 |
| | | 111.15 111.75 Mafic wedge of potassic basalt, but with considerable disseminated carbonate throughout; also minor carbonate as 1 to 2 mm stringers sub parallel to foliation. | | | | | | | | | |
| | | 112.10 113.10 4ea, silicified. | 20149 | 112.10 | 113.10 | 1.00 | 10-15 | 7.46 | n/a | 7.03 | 7.24 |
| | | 113.10 114.10 Mafic wedge and 4ea, quartz veins. | 20150 | 113.10 | 114.10 | 1.00 | 1-2 | .10 | n/a | n/a | .10 |
| | | 114.10 115.10 4ea, silicified. | 20151 | 114.10 | 115.10 | 1.00 | 5-10 | 1.24 | n/a | 1.27 | 1.26 |
| | | 115.10 115.60 4e(e), quartz veins. | 20152 | 115.10 | 115.60 | .50 | 1-3 | .01 | n/a | n/a | .01 |

115.60 126.20 GARNET - BIOTITE SCHIST

4f.

80 to 95% 'f' beds, less than or equal to 10 cm, but organized into bands up to 50 cm wide.

Beds generally massive; contain 30 to 35% 1 to 3 mm rounded garnets.

2 to 4% chert grunerite beds, less than or equal to 1.0 cm; chert generally forms centre of bed, with 2 to 6 mm grunerite margins.

3 to 5% grunerite poor chert beds, less than or equal to 2 mm, parallel to bedding.

5 to 7% blue quartz, as veins less than or equal to 15 cm sub-parallel to bedding, but locally causing minor bedding

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | disruption. | | | | | | | | | |
| | | Well bedded at 50 degrees to the core axis, decreasing to 31 to 36 degrees to the core axis downhole. | | | | | | | | | |
| | | 115.60 126.20 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 115.60 117.10 4f, 10 cm quartz vein. | 20153 | 115.60 | 117.10 | 1.50 | TR | .15 | n/a | n/a | .15 |
| | | 117.10 118.60 4f, character sample. | 20154 | 117.10 | 118.60 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| | | 118.60 120.10 4f, character sample. | 20155 | 118.60 | 120.10 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| | | 122.00 123.50 4ea(f), large quartz vein. | 20156 | 122.00 | 123.50 | 1.50 | 2-4 | .10 | n/a | n/a | .10 |
| | | 122.53 123.50 4ea(f) heavily gruneritized 4ea material with 30 to 35% 2 to 4 mm subhedral garnets. This portion of unit forms a very broad, open right limb fold with axial plane approx 59 degrees to the core axis. Actual bed width not determined due to very poor bedding angles; 7 cm quartz vein cuts unit at 39 degrees to the core axis, and contains 1 to 2% pyrrhotite stringers. | | | | | | | | | |
| 126.20 | 129.50 | INTERFORMATIONAL IRON FORMATION | | | | | | | | | |
| | | 2-4e. | | | | | | | | | |
| | | Similar to 97.8, but with volcanic material dominated by phlogopite. | | | | | | | | | |
| | | 'e' beds generally poorly gruneritized, with 10% 0.5 to 1.0 cm subhedral garnets. | | | | | | | | | |
| | | 10 to 15% carbonate and carbonate-quartz veins, less than or equal to 1.0 cm, sub parallel to bedding. | | | | | | | | | |
| | | Well foliated and banded at 35 degrees to the core axis, increasing downhole to 53 degrees to the core axis. | | | | | | | | | |
| | | Occasional very broad, open right limb folds with axial plane 60 degrees to the core axis. | | | | | | | | | |
| | | Trace to 1% pyrrhotite as rare veinlets and stringers confined to 'ea' beds. | | | | | | | | | |
| | | 126.20 129.50 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 126.20 127.70 2-4e, carbonate-quartz veins. | 20157 | 126.20 | 127.70 | 1.50 | TR-1 | .05 | n/a | n/a | .05 |
| | | 127.70 128.70 2-4e, carbonate-quartz veins. | 20158 | 127.70 | 128.70 | 1.00 | 1-2 | .15 | n/a | n/a | .15 |
| | | 128.70 129.50 2-4e, carbonate veins. | 20159 | 128.70 | 129.50 | .80 | TR | .15 | n/a | .10 | .12 |
| 129.50 | 133.70 | GARNET - Biotite SCHIST | | | | | | | | | |
| | | sf. | | | | | | | | | |
| | | Similar to 115.6. | | | | | | | | | |
| | | Well bedded at 44 to 48 degrees to the core axis. | | | | | | | | | |
| | | 2 to 4% carbonate veinlets less than or equal to 2 mm, sub parallel to bedding. | | | | | | | | | |
| | | 129.50 133.70 Rock RQD 100%. | | | | | | | | | |
| | | 129.50 131.00 4f, character sample. | 20160 | 129.50 | 131.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 5 mm, locally developed. 10 to 15% blue quartz, as veins up to 1.0 cm, but locally as rare silicified zones over 10 to 15 cm. Associated with trace pyrrhotite specks in quartz. Well bedded at 47 to 64 degrees to the core axis. Occasional very broad, open left limb folds visible throughout unit with axial plane 60 to 68 degrees to the core axis, decreasing downhole to 53 degrees to the core axis at 161.4. Unit locally blocky over 10 to 30 cm sections, but blocky and very chloritized from 147.6 to 149.5 with RQD 50% in this section. 149.00 150.50 4fa, rare quartz veins. 152.00 153.50 4eaf, weak silicification. 155.00 156.50 4eaf, quartz-carbonate veins. 160.10 161.60 4f(ea). | 20174 | 149.00 | 150.50 | 1.50 | TR | .10 | n/a | n/a | .10 |
| | | | 20175 | 152.00 | 153.50 | 1.50 | TR | .10 | n/a | n/a | .10 |
| | | | 20176 | 155.00 | 156.50 | 1.50 | TR | .89 | n/a | n/a | .89 |
| | | | 20177 | 160.10 | 161.60 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 161.60 | 163.90 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. Similar to 104.1. 5 to 10% garnet poor amphibole beds, locally developed, less than or equal to 5 mm. 30 to 35% blue quartz, generally as veins, with occasional mild bedding disruption. Trace to 1% pyrrhotite as rare blebs less than or equal to 1 mm in 'ea' beds. Also trace pyrite flecks, locally developed in quartz. Rare carbonate filled fractures at 90 degrees to bedding, but also rotated 90 degrees to core axis. Well bedded at 48 to 63 degrees to the core axis. 161.60 163.90 Rock RQD 95%. 161.60 162.60 4ea, quartz veins, rare carbonate. 162.60 163.90 4ea, quartz veins, pyrite flecks. | 20178 | 161.60 | 162.60 | 1.00 | TR | .10 | n/a | n/a | .10 |
| | | | 20179 | 162.60 | 163.90 | 1.30 | t | .10 | n/a | .05 | .07 |
| 163.90 | 166.40 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Similar to 78.4, but with 15 to 20% medium grained brown phlogopite disseminated through unit. 5 to 7% quartz, as veins less than or equal to 2.0 cm parallel to foliation. Rare garnetiferous patches, locally developed over 15 cm. Well foliated at 48 to 54 degrees to the core axis. 1 to 3% pyrrhotite as veinlets and stringers associated with garnetiferous material and more rarely as flecks in quartz. 163.90 166.40 Rock RQD 95%. 163.90 164.90 B-3, garnets, quartz veins. | 20180 | 163.90 | 164.90 | 1.00 | 1-3 | .79 | n/a | n/a | .79 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Av g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | 30% Grunerite rich e beds containing 5 to 15% euhedral pinhead to 0.5 cm subhedral garnets. | | | | | | | | | |
| | | 30% Chert beds void of magnetite. | | | | | | | | | |
| | | F component decreases rapidly to 5% at upper contact. | | | | | | | | | |
| | | Lower contact defined by 30 cm massive Kf. | | | | | | | | | |
| | | 1 to 3% pyrite > pyrrhotite occurring as fine grained stringers and more rarely as fine grained disseminations associated with ae beds. | | | | | | | | | |
| | | Bedding variable from 30 to 90 degrees to the core axis. | | | | | | | | | |
| | | Open left limb minor folding with axial plane at 40 degrees to the core axis. | | | | | | | | | |
| | | 30.25 32.75 Rock RQD 70%. | 19340 | 30.25 | 31.50 | 1.25 | 1-2 | .53 | n/a | n/a | .53 |
| | | 30.25 31.50 Kae. | 19341 | 31.50 | 32.75 | 1.25 | 2-3 | .14 | n/a | n/a | .14 |
| | | 31.50 32.75 Kae. | | | | | | | | | |
| 32.75 | 38.95 | METASEDIMENT | | | | | | | | | |
| | | Fine grained, siliceous unit. Compositionally similar to an A volcanic but displaying a sedimentary texture. Fine grained sugary quartz feldspar laminated with fine grained euhedral biotite and phlogopite. Laminae appear folded and conformable with 40% poorly bedded chert grunerite rich, magnetite poor intraformational iron formation with up to 25% garnet biotite hornblende (f) beds. | | | | | | | | | |
| | | Iron formation units at 33.0 to 34.0, 34.90 to 35.10 and 35.90 to 36.90. | | | | | | | | | |
| | | Trace pyrrhotite. | | | | | | | | | |
| | | Bedding / compositional banding at 50 to 70 degrees to the core axis. | | | | | | | | | |
| | | Open minor folding displaying right limb closures axial plane at 45 to 60 degrees to the core axis. | | | | | | | | | |
| | | 32.75 38.95 Rock RQD 75%. | | | | | | | | | |
| | | 32.75 34.00 33.0 34.0 Kae with Qtz vein at 33.10. | 19342 | 32.75 | 34.00 | 1.25 | 2-3 | .01 | n/a | n/a | .01 |
| 39.95 | 41.75 | CHELT-GRUNERITE-GARNET-AMPHIBOLE I.F. | | | | | | | | | |
| | | Kae. | | | | | | | | | |
| | | Poorly bedded magnetite poor iron formation composed of 60% chert grunerite with 20% garnet biotite phlogopite 'f' beds and 15% garnet hornblende 'e' beds typically up to 1.5 cm wide. | | | | | | | | | |
| | | Bedding poorly preserved at 40 to 50 degrees to the core axis. | | | | | | | | | |
| | | 38.95 41.75 Rock RQD 90%. | | | | | | | | | |
| | | 38.95 39.45 15cm massive fine grained pyrrhotite band at 39.15 to 39.30. | 19343 | 38.95 | 39.45 | .50 | TR | .10 | n/a | n/a | .10 |
| | | 39.45 40.75 Kae with rare quartz pyrrhotite vein. | 19344 | 39.45 | 40.75 | 1.30 | 1 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | Common open left limb minor folding. Axial plane at 45 degrees to the core axis with shallow (<15 degree) NW plunge. | | | | | | | | | |
| | | Very well developed fracture cleavage at 45 degrees to the core axis. | | | | | | | | | |
| | | 143.10 149.30 Rock RQD 75%. | | | | | | | | | |
| | | 143.10 144.60 2-4e(a). | 19345 | 143.10 | 144.60 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 144.60 146.10 2-4e(a). | 19346 | 144.60 | 146.10 | 1.50 | TR | 1.49 | n/a | n/a | 1.49 |
| | | 146.10 147.20 2-4e(a). | 19347 | 146.10 | 147.20 | 1.10 | 1-2 | 7.40 | 7.90 | n/a | 7.73 |
| | | 147.20 148.30 2-4e(a). | 19348 | 147.20 | 148.30 | 1.10 | 3-5 | 10.00 | 14.60 | 14.03 | 13.41 |
| | | 148.30 149.30 2-4e(a). | 19349 | 148.30 | 149.30 | 1.00 | 2-3 | 4.07 | n/a | n/a | 4.07 |
| 149.30 | 174.00 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
| | | B. | | | | | | | | | |
| | | Typical fine grained B volcanic similar to 116.65 to 143.10 | | | | | | | | | |
| | | Up to 5% quartz-carbonate veins and veinlets parallel to foliation. Veins up to 3.0 cm wide. | | | | | | | | | |
| | | Foliation well developed, highlighted by up to 10% fine grained phlogopite. Foliation decreases from upper contact at 55 to 60 degrees to the core axis to 40 degrees to the core axis at 170m. | | | | | | | | | |
| | | Sharp lower contact at 174.0m. | | | | | | | | | |
| | | 149.30 164.00 Rock RQD 100%. | | | | | | | | | |
| | | 157.95 158.55 2-4ea poorly developed garnetiferous iron formation. Weak grunerite alteration. Trace pyrrhotite. | | | | | | | | | |
| | | 158.55 161.00 B-3 similar to text, but with 25% medium grained phlogopite associated with up to 10% 2.0 mm garnets and up to 15% quartz-carbonate seams. Trace pyrrhotite. | | | | | | | | | |
| | | 164.00 174.00 Rock RQD 100%. | | | | | | | | | |
| 174.00 | 177.90 | GARNET-BICTITE SCHIST / GARNET-AMPHIBOLE IRON FORMATION | | | | | | | | | |
| | | 4f(ea). | | | | | | | | | |
| | | Well laminated to bedded on a cm scale. | | | | | | | | | |
| | | 80% Biotite beds with 15 to 50% 1.0 to 3.0 mm subhedral garnets interbedded with 25% laminated chert magnetite commonly rimmed by narrow grunerite threads. | | | | | | | | | |
| | | 5% Poorly developed ea beds increasing to 15% toward granational lower contact. | | | | | | | | | |
| | | Bedding at 45 to 60 degrees to the core axis. | | | | | | | | | |
| | | Common well developed closed to tight left limb minor folds. Axial plane at 40 degrees to the core axis. | | | | | | | | | |
| | | Wavelength to amplitude ratio approximately 1:1.5. | | | | | | | | | |
| | | Trace to nil pyrrhotite. | | | | | | | | | |
| | | 174.00 177.90 Rock RQD 100%. | | | | | | | | | |
| | | 174.00 175.50 4f(ea). | 19350 | 174.00 | 175.50 | 1.50 | 0 | .10 | n/a | n/a | .10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | REGR | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|------|--------|---------|
| 175.50 | 177.00 | 4f(ea). | 19351 | 175.50 | 177.00 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| 177.00 | 177.90 | 4f(ea). | 19352 | 177.00 | 177.90 | .90 | 0 | .01 | n/a | n/a | .01 |
| 177.90 | 182.50 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST leaf. | | | | | | | | | |
| | | Well bedded iron formation composed of 30% gruneritized garnet hornblende (ea) beds. Garnets discrete subhedral crystals up to 0.3 cm diameter. | | | | | | | | | |
| | | 20 to 30% moderately chloritic 'f' beds. F content increases toward lower contact. | | | | | | | | | |
| | | 25% Well preserved laminated chert magnetite beds. | | | | | | | | | |
| | | Up to 5% carbonate filled fractures parallel to foliation. | | | | | | | | | |
| | | Bedding constant at 55 to 60 degrees to the core axis. | | | | | | | | | |
| | | Foliation /cleavage at 45 degrees to the core axis. | | | | | | | | | |
| | | Weakly silicified, with associated bedding disruption to 180.0. 1 to 2% pyrrhotite stringers associated with quartz. | | | | | | | | | |
| 177.90 | 182.50 | Rock RQD 90%. | | | | | | | | | |
| 177.90 | 179.00 | leaf. | 19353 | 177.90 | 179.00 | 1.10 | 1 | 4.30 | n/a | n/a | 4.30 |
| 179.00 | 180.00 | leaf. | 19354 | 179.00 | 180.00 | 1.00 | 2-3 | 1.16 | n/a | n/a | 1.16 |
| 180.00 | 181.00 | leaf 35% f content. | 19355 | 180.00 | 181.00 | 1.00 | 0 | 1.45 | n/a | n/a | 1.45 |
| 181.00 | 182.50 | leaf. | 19356 | 181.00 | 182.50 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| 182.50 | 194.90 | GARNET-BIOTITE SCHIST / CHELT-MAGNETITE I.F. 4fb. | | | | | | | | | |
| | | Well laminated to bedded iron formation composed of 60% well preserved garnet biotite (f) beds interbedded on a cm scale with 40% finely laminated chert magnetite. | | | | | | | | | |
| | | Up to 5% faint grunerite appears within 3 metres of upper and lower contacts. | | | | | | | | | |
| | | Up to 5% carbonate and/or quartz-carbonate veinlets parallel to foliation. | | | | | | | | | |
| | | Unit displays splendid minor folding consisting of tight left limb minor folds to 185.0 medium followed by M-style folds from 185.0 to 191.0 and finally open right limb folds to lower contact. | | | | | | | | | |
| | | Axial plane at 35 to 55 degrees to the core axis. | | | | | | | | | |
| | | Bedding variable from 60 degrees to the core axis to 35 degrees to the core axis. | | | | | | | | | |
| | | Overall trace sulphides. Pyrrhotite noted in rare quartz pyrrhotite vein. | | | | | | | | | |
| 182.50 | 194.90 | Rock RQD 15% gravelly zone at 197.0 required cementing. Rock breaks very easily along bedding planes. | | | | | | | | | |
| 182.50 | 184.00 | 4fb. | 19357 | 182.50 | 184.00 | 1.50 | TR | .01 | n/a | .01 | .01 |
| 184.00 | 195.50 | 4fb with qtz/po vein at 184.25. | 19358 | 184.00 | 195.50 | 1.50 | 1 | .14 | n/a | n/a | .14 |
| 188.50 | 190.00 | 4fb character sample. | 19359 | 188.50 | 190.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Au g/t | RERM | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|------|--------|---------|
| 193.40 | 194.90 | 4fb character sample. | 19360 | 193.40 | 194.90 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| 194.90 | 200.45 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4fa. Similar to 174.0 to 177.9 but with 15 to 20% intensely gruneritized 'ea' beds. 'f' beds moderately to intensely chloritic. Bedding varies from 30 to 50 degrees to the core axis. Frequent right limb minor folds with axial plane at 50 degrees to the core axis. Trace to nil pyrrhotite. '94.90 200.45 Rock RQD 75%. | | | | | | | | | |
| 194.90 | 196.40 | 4fa. | 19361 | 194.90 | 196.40 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| 196.40 | 197.90 | 4fa. | 19362 | 196.40 | 197.90 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 197.90 | 199.40 | 4fa. | 19363 | 197.90 | 199.40 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 199.40 | 200.45 | 4fa. | 19364 | 199.40 | 200.45 | 1.05 | TR | .05 | n/a | n/a | .05 |
| 200.45 | 203.05 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. Poorly developed 4ea iron formation composed of 50 to 60% intensely gruneritized garnet beds with 25% well preserved 'f' beds and up to 15% chert beds with minor magnetite. Trace pyrrhotite to 202.0m 3 to 5% fine grained pyrrhotite stringers associated with milky white recrystallized quartz from 202 to 203m. Bedding poorly preserved and locally disrupted. Bedding at 40 to 45 degrees to the core axis. 200.45 203.05 Rock RQD 95%. | | | | | | | | | |
| 200.45 | 201.95 | 4ea. | 19365 | 200.45 | 201.95 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| 201.95 | 203.05 | 4ea 10% silicification. | 19366 | 201.95 | 203.05 | 1.10 | 3-5 | 0.60 | 0.09 | 0.91 | 0.03 |
| 203.05 | 209.35 | INTERMIXED MAFIC VOLCANIC AND POTASSIC BASALT B-3. Fine to medium grained brownish green volcanic dominated by hornblende plagioclase rich assemblage with 10 to locally 35% fine grained phlogopite associated with 20% quartz-carbonate veins and veinlets. Foliation well developed at 40 to 50 degrees to the core axis. 203.05 209.35 Rock RQD 85%. | | | | | | | | | |
| 203.05 | 204.55 | B-3 with 30% quartz-carbonate and minor quartz pyrrhotite veins. | 19367 | 203.05 | 204.55 | 1.50 | 1 | .10 | n/a | n/a | .10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %p | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | to massive bands associated with 25% quartz-carbonate veins and veinlets. Veining up to 30 cm wide, occurring parallel to to foliation Foliation at 42 to 55 degrees to the core axis. Trace to locally 1 to 2% pyrrhotite associated with quartz veins as in samples. 249.50 258.40 Rock RQD 100%. 255.20 257.70 3-B, 15% quartz. | 19369 | 256.20 | 257.70 | 1.50 | 1-2 | 18.33 | 20.15 | n/a | 19.24 |
| 258.40 | 272.90 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Similar to 203.05, but with phlogopite 10% to locally 25% , generally disseminated. 15 to 20% carbonate-quartz veins, less than or equal to 1.0 cm, locally to 4.5 cm, usually associated with better development of phlogopite ; veins barren. Well foliated at 35 to 50 degrees to the core axis. Rare conjugate fracture set at 90 degrees to foliation. 258.40 272.90 Rock RQD 100%. 264.20 265.25 G1-3 15 to 20% 1 to 3 mm garnets in a well foliated phlogopite matrix. Foliated at 55 to 58 degrees to the core axis. Upper contact sharp and lower contact gradational over 10 cm. | | | | | | | | | |
| 272.90 | 275.55 | INTRAFORMATIONAL IRON FORMATION 2-4e. 40 to 45% poorly to moderately gruneritized 'ea' beds, 0.5 to 6.0 cm, with 15 to 20% 0.5 to 1.3 cm subhedral garnets. 15 to 20% garnet poor amphibole beds, up to 8 mm wide. 10 to 15% carbonate-quartz veins, less than or equal to 3.5 cm, sub parallel to banding. 10% B volcanic material locally developed but better developed in upper 60 cm of unit. Moderately to well bedded at 35 to 48 degrees to the core axis. 10 to 15% blue quartz as veins less than or equal to 1.0 cm sub parallel to bedding, but as a silicified zone from 274.3 to 275.4, with associated moderate bedding disruption. Pyrrhotite content 1 to 2% associated with quartz veins, and 3 to 5% as sulphide replacement of amphibole associated with silicified zone. 272.90 275.55 Rock RQD 100%. 272.90 274.10 2-4e, quartz-carbonate veins. 274.10 275.55 2-4e, silicified. | 19370 | 272.90 | 274.10 | 1.20 | 1 | .10 | n/a | n/a | .10 |
| | | | 19371 | 274.10 | 275.55 | 1.45 | 3-5 | 6.24 | 2.60 | n/a | 4.46 |

REF COR: 7723.6 6284.8 SURVEYED: YES

PLACER DOME INC.

LOCATION: 27+00N 1+75W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5559
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

FOOT LOCATION:

SECTION:

AZIMUTH: 49.4

LENGTH: 173.0

ELEVATION: 5302.5

LOGGED BY: H. BECKETT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEB. 10 - 12, 1980

STARTED: FEB. 09, 1980

COMPLETED: FEB. 11, 1980

CLAIM NO:

PURPOSE: TEST NW MAG AXITE AT 5250m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -46.0 | 120.00 | | -40.5 |
| 66.00 | | -44.0 | 150.00 | | -37.0 |
| 90.00 | | -42.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|---------------------------------|--|--|--|--|--|--|--|--|--|
| .00 | 17.90 | OVERBURDEN (sand, boulders). | | | | | | | | | |
|-----|-------|---------------------------------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 17.90 | 55.85 | FELTIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

A volcanic.

Typical fine grained light to medium grey, quartz feldspar sericite volcanic package.

Contains 10 to 15% white-yellow sericite, as 1 to 6 mm compositional bands parallel to foliation. Bands locally concentrated to 30 to 40% over 2 to 3 m.

Well foliated at 44 degrees to the core axis, increasing to 62 to 65 degrees to the core axis from 21.0 to 29.0, and then decreasing gradually to 53 to 61 degrees to the core axis.

Trace to 1% pyrite as locally developed flecks, and rare disseminations over 2.0 cm.

17.90 32.20 Very blocky, with gravelly sections over 30 to 100 cm. Occasional silver dollar core developed in this interval.

17.91 32.20 Rock FQD 15 to 20%.

21.60 23.60 Unit vuggy with considerable potassic alteration.

29.80 30.40 A volc, 35% sericite.

| | | | | | | | | |
|-------|-------|-------|-----|---|-----|-----|-----|-----|
| 19425 | 29.80 | 30.40 | .60 | 0 | .01 | n/a | n/a | .01 |
|-------|-------|-------|-----|---|-----|-----|-----|-----|

32.20 37.30 Similar to text but with < 10% sericite. Unit medium grained in this section. Barren white quartz vein, from 36.0 to 37.16.

32.21 37.30 Rock FQD 75 to 80%.

35.60 37.10 A volc, quartz vein.

| | | | | | | | | |
|-------|-------|-------|-----|---|-----|-----|-----|-----|
| 19426 | 36.60 | 37.10 | .50 | 0 | .01 | n/a | n/a | .01 |
|-------|-------|-------|-----|---|-----|-----|-----|-----|

37.30 52.45 Similar to text, but less than or equal to 10%

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE | |
|-------|--------|---|-------------------------|-------|-------|--------|------|--------|-------|--------|---------|------|
| | 90.50 | 91.00 | 3-B, quartz vein. | 19433 | 90.50 | 91.00 | .50 | 1-2 | 3.43 | n/a | n/a | 3.43 |
| 93.70 | 96.60 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Similar to 86.4. Well foliated at 51 to 64 degrees to the core axis. Unit locally bleached to a light grey green. 93.70 96.60 Rock RQD 80%. | | | | | | | | | | |
| 96.60 | 98.00 | POTASSIC BASALT 3. > 90% medium grained brown phlogopite, carrying less than or equal to 5% white carbonate veinlets up to 2 mm parallel to foliation. Well foliated at 66 to 67 degrees to the core axis. 96.60 98.00 Rock RQD 100%. | | | | | | | | | | |
| 98.00 | 99.50 | INTRACRYSTALLINE IRON FORMATION 2-4e. Similar to 78.8, but grunerite content less than or equal to 10% overall, and only locally developed. Moderately to well banded at 54 to 58 degrees to the core axis. 10% Blue quartz veins, less than or equal to 1.5 cm, generally sub parallel to banding but locally causing minor bedding disruption. Veins associated with 5 to 7% pyrrhotite as veinlets and stringers, and occasionally some sulphide replacement of amphibole in 'e' beds. 98.00 99.50 Rock RQD 100%. | | | | | | | | | | |
| | 98.00 | 99.50 | 2-4e, quartz veins. | 19434 | 98.00 | 99.50 | 1.50 | 5-7 | 3.24 | n/a | n/a | 3.24 |
| 99.50 | 102.20 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Compositionally variable unit composed of 30% B volcanic material intermixed with 30% potassic basalt associated with 10% disseminated carbonate. 25 to 30% garnet amphibole beds, less than or equal to 5 cm, weakly to moderately gruneritized, with 5 to 10% 3 to 6 mm subhedral garnets. Associated with 10% blue quartz veins, less than or equal to 1.0 cm, locally to 15 cm, with 3 to 5% pyrrhotite as sulphide replacement in e beds. Well foliated and banded at 46 to 58 degrees to the core axis. 99.50 102.20 Rock RQD 30 to 85%. | | | | | | | | | | |
| | 99.50 | 101.00 | B-3, rare quartz veins. | 19435 | 99.50 | 101.00 | 1.50 | TR | .10 | n/a | n/a | .10 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M45559
PAGE NO: 11

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/l RERUN REJECT AVERAGE

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

MUSSELWHITE

SURFACE

DRILL LOGS

MUS560 - MUS570

REF CORE: 6026.9 7465.7 SURVEYED: YES

PLACER DONE INC.

LOCATION: 11400 0400 GRID:

DIAMOND DRILL RECORD

HOLE NO: M5560
PROPERTY: MUSSELWHITE
NORTHWESTERN ONTARIO
SECTION:

POST LOCATION:

AZIMUTH: 229.0

LENGTH: 443.0

ELEVATION: 5382.5

LOGGED BY: GERTZBEIN, BECKETT, STEWART

DIP: -65.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 9-15, 1988

STARTED: FEBRUARY 7, 1988

COMPLETED: FEBRUARY 15, 1988

CLAIM NO:

PURPOSE: TEST 4975 EL T MAIN ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 11.00 | | -65.5 | 240.00 | | -55.0 |
| 30.00 | | -64.0 | 270.00 | | -55.5 |
| 60.00 | | -63.0 | 300.00 | | -52.0 |
| 90.00 | | -62.5 | 330.00 | | -50.0 |
| 120.00 | | -62.0 | 360.00 | | -48.0 |
| 150.00 | | -61.0 | 390.00 | | -45.0 |
| 180.00 | | -61.0 | 420.00 | | -42.5 |
| 210.00 | | -58.5 | | | |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

.00 10.35 OVERBURDEN
Sand, gravel and relatively few boulders.

10.35 23.20 CHERT - MAGNETITE IRON FORMATION
4b.

Very well bedded iron formation composed of 75 to 90% interbedded to interlaminated chert magnetite. Chert beds often boudinaged to completely fractured and rotated along well developed fracture cleavage.

15% 0.2 To 2.0 cm garnet biotite (f) beds throughout.

Very faint prunerite occurs as thin seams along bedding planes.

Up to 5% glassy blue quartz veins with trace to nil pyrrhotite.

Veins clearly cut bedding planes.

Bedding generally 18 to 20 degrees to the core axis.

Common open left limb minor folds to 17.0m with axial

plane at 42 to 48 degrees to the core axis.

Very well developed fracture cleavage throughout.

10.35 23.20 Rock RQD 75%.

11.00 12.50 4b.

21401 11.00 12.50 1.50 0 .01 n/a .01 .01

14.60 15.50 4b.

21402 14.00 15.50 1.50 0 .10 n/a n/a .10

17.00 18.50 4b.

21403 17.00 18.50 1.50 0 .05 n/a n/a .05

20.00 21.60 4b.

21404 20.00 21.60 1.60 0 .10 n/a n/a .10

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERM | REJECT | AVERAGE |
|-------|--------|---|--------|--------|--------|--------|-----|--------|------|--------|---------|
| | | Up to 10% carbonate veinlets parallel to compositional banding. Foliation at 40 degrees to the core axis. 86.80 88.00 Rock EQD 100%. | | | | | | | | | |
| 88.00 | 94.75 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Similar to 78.2 86.8 but with roughly equal hornblende and phlogopite. Up to 15% carbonate veinlets parallel to foliation. 15 to 20% snowflake garnets from 93.25 to 93.75m. Foliation at 40 degrees to the core axis. 88.00 94.75 Rock EQD 85%. | | | | | | | | | |
| 94.75 | 95.15 | GARNETIFEROUS POTASSIC BASALT Gt-3. 20 to 25% 1.0 mm to 1.0 cm subhedral to anorhous garnets supported by hornblende and phlogopite. Compositionally banded with 15% chert. 15% Pyrrhotite as contorted massive bands. Foliation / bedding at 42 degrees to the core axis. 94.75 96.15 Rock EQD 100%. 94.75 95.15 Gt-3. | 21438 | 94.75 | 95.15 | 1.40 | 15% | .01 | n/a | n/a | .01 |
| 96.15 | 207.00 | FELSIC TO INTERMEDIATE VOLCANICS A. Typical fine grained compositionally banded to locally homogenous unit composed of quartz feldspar with diffuse biotite bands. Intense sericite alteration along foliation planes imparts banded appearance. Up to 10% quartz carbonate tourmaline veins parallel to banding commonly rimmed by medium grained to coarse grained muscovite. Foliation at 38 degrees to the core axis. 96.15 110.00 Rock EQD 75%. 110.00 125.00 Rock EQD 85%. 119.00 120.50 A 1.0 cm pyrrhotite band at 119.40. 121.00 122.10 Barren milky white quartz vein. 125.00 146.00 Rock EQD 95%. 137.00 146.00 A foliation at 44 to 48 degrees to the core axis. 141.00 142.40 Quartz vein with 30% interbanded sericite. 146.00 164.00 Rock EQD 95%. 145.00 165.00 A foliation at 42 to 45 degrees to the core axis. | 21439 | 119.00 | 120.50 | 1.50 | 2-3 | .10 | n/a | n/a | .10 |
| | | | 21440 | 141.00 | 142.40 | .60 | 1 | 4.29 | n/a | 4.40 | 4.35 |

| FROM | TO | DESCRIPTION | SAMPLE FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|-------------|--------|--------|------|--------|-------|--------|---------|
| | | Similar to 210.15. Well foliated at 37 to 50 degrees to the core axis. 3 to 5% white carbonate stringers, less than or equal to 2 mm, parallel to foliation. Rare conjugate fracture cleavage, carbonate filled with orientation 30 degrees to foliation. 237.25 250.90 Rock RQD 85 to 90%. | | | | | | | | |
| | | 245.30 245.80 large fracture parallel to core axis with chlorite and carbonate on fracture surface. | | | | | | | | |
| 250.90 | 252.40 | INTERMIXED POTASSIC BASALT AND MAFIC VOLCANICS 3-B. Medium brownish green package of 50 to 60% phlogopite, mixed with 30 to 40% typical B volc material. Rare carbonate-quartz veins, less than or equal to 3 mm parallel to foliation at 37 to 40 degrees to the core axis. Garnets appear at 252.95, increasing to 5 to 10% at lower contact. 250.90 252.40 Rock RQD 100%. | | | | | | | | |
| 252.40 | 254.05 | GARNETIFEROUS POTASSIC BASALT Gt-3. Similar to 229.7, but with garnets less than or equal to 15%, up to 1 cm diameter. Well foliated at 32 to 34 degrees to the core axis. 252.40 254.05 Rock RQD 100%. | | | | | | | | |
| 254.05 | 260.80 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Similar to 221.95. Well foliated at 38 degrees to the core axis, increasing downhole to 57 degrees to the core axis at lower contact. 254.05 260.80 Rock RQD 100%. | | | | | | | | |
| | | 254.50 255.10 3-B, 50 cm white quartz vein. | 21450 | 254.50 | 255.10 | .60 | 0 | .10 | n/a | .10 |
| | | 259.50 260.00 B-3, 33 cm white quartz vein. | 21451 | 259.50 | 260.00 | .50 | 0 | .01 | n/a | .01 |
| 260.80 | 262.00 | GARNETIFEROUS POTASSIC BASALT Gt-3. Similar to 229.7. Moderately foliated at 50 to 57 degrees to the core axis. 5% chert beds, less than or equal to 1.0 cm, folded into tight right limb folds, with axial plane 32 degrees to the core axis. 260.80 262.00 Rock RQD 100%. | | | | | | | | |
| | | 260.80 261.00 Gt-3, character sample. | 21452 | 260.80 | 262.00 | 1.20 | 0 | .01 | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|---|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 5 to 34 quartz veining/flooding pyrrhotite associated. Moderately to well preserved bedding at 35 to 43 degrees to the core axis. | | | | | | | | | | | |
| 327.00 | 340.55 | Rock RQD 100%. | | | | | | | | | |
| 333.00 | 384.00 | 4ba. | 25963 | 383.00 | 384.00 | 1.00 | 0 | 1.03 | n/a | n/a | 1.03 |
| 334.00 | 385.00 | 4ba. | 25964 | 384.00 | 385.00 | 1.00 | 0 | 1.37 | n/a | n/a | 1.37 |
| 385.00 | 386.00 | 4ba. | 21502 | 385.00 | 385.00 | 1.00 | TR | .14 | n/a | n/a | .14 |
| 386.00 | 387.00 | 4ba quartz flooding. | 21503 | 386.00 | 387.00 | 1.00 | TR-1 | 2.18 | n/a | n/a | 2.18 |
| 387.00 | 388.00 | 4ba quartz flooding. | 21504 | 387.00 | 388.00 | 1.00 | 3-5 | 4.11 | n/a | n/a | 4.11 |
| 388.00 | 389.00 | 4ba(a). | 21505 | 388.00 | 389.00 | 1.00 | NIL | .01 | n/a | n/a | .01 |
| 389.00 | 390.55 | 4ba(a). | 21506 | 389.00 | 390.55 | 1.55 | NIL | .01 | n/a | n/a | .01 |
| 390.55 402.10 GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ba. 45 to 50% ea beds. Moderately to well formed, 30 to 35% amorphous garnet clusters to 8 mm in grunerite matrix. 25 to 30% chert beds and/or remobilized quartz. 5% Magnetite as laminae in chert beds and remnants in gruneritized beds. Magnetite content decreases to zero half way through the unit. 5 to 10% green amphibole rich remnants of e beds as stringers and whisps. 1 to 5% f beds randomly throughout. Mineralization occurs as stringers in quartz and sulphide replacement in ea beds, generally localized to areas of qtz flooding, 356.1 357.6. Moderately preserved bedding at 35 to 40 degrees to the core axis. Few left limb folds axial plane 47 degrees to the core axis | | | | | | | | | | | |
| 390.55 | 391.55 | 4ba. | 21507 | 390.55 | 391.55 | 1.00 | TR | 1.16 | n/a | n/a | 1.16 |
| 390.56 | 402.10 | Rock RQD 100%. | | | | | | | | | |
| 391.55 | 392.55 | 4ba 5 to 8% quartz veins. | 21508 | 391.55 | 392.55 | 1.00 | 1-2 | 1.58 | n/a | 1.69 | 1.63 |
| 392.55 | 393.55 | 4ba as above. | 21509 | 392.55 | 393.55 | 1.00 | 2-3 | 1.76 | n/a | n/a | 1.76 |
| 393.55 | 394.55 | 4ba. | 21510 | 393.55 | 394.55 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 394.55 | 395.55 | 4ba mineralization and silicification start at 395.0. | 21511 | 394.55 | 395.55 | 1.00 | 2-3 | 2.16 | n/a | n/a | 2.16 |
| 395.55 | 396.10 | 4ba. | 21512 | 395.55 | 396.10 | .55 | TR-1 | 2.26 | n/a | n/a | 2.26 |
| 396.10 | 397.60 | Intense silicification and mineralization 3 blebs visible gold. | 21513 | 396.10 | 397.60 | 1.50 | 5-10 | 10.46 | 11.58 | n/a | 11.02 |
| 397.60 | 398.60 | 4ba. | 21514 | 397.60 | 398.60 | 1.00 | TR-1 | .05 | n/a | n/a | .05 |
| 398.60 | 399.60 | 4ba. | 21515 | 398.60 | 399.60 | 1.00 | TR | .39 | n/a | n/a | .39 |
| 399.60 | 400.60 | 4ba silicified. | 21516 | 399.60 | 400.60 | 1.00 | TR-1 | 2.34 | n/a | n/a | 2.34 |
| 400.60 | 402.10 | 4ba. | 21517 | 400.60 | 402.10 | 1.50 | TR | .05 | n/a | n/a | .05 |
| 402.10 415.85 GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / CHELT-MAGNETITE I.F. 4bab. | | | | | | | | | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|-------------|--------|--------|--------|--------|----|--------|-------|--------|---------|
| 438.50 | 440.00 | 4fba. | 21538 | 438.50 | 440.00 | 1.50 | TR | .10 | n/a | n/a | .10 |

441.20 442.75 POTASSIC BASALT
3.
Medium grained brown to brown green.
Well developed foliation at 60 degrees to the core axis.
5 to 10% carbonate veinlets parallel to foliation.
441.20 442.75 Rock R2D 100.

442.75 443.00 GARNET-BIOTITE SCHIST / CHERT-MAGNETITE-GARNET-AMPHIBOLE
1.F.
4fba.
As described 424.6 441.2.

443.00 443.00 END OF HOLE

COPE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 190 CREE CRESC. WINNIPEG,
MANITOBA.

REF CODE: 7058.0 8133.0 SURVEYED: YES

PLACER DOME INC.

LOCATION: 29400N 2400W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5561
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO
SECTION:

POST LOCATION:

AZIMUTH: 49.3

LENGTH: 220.0

ELEVATION: 5302.5

LOGGED BY: M. BECKETT

DIP: -45.0

CORE SIZE: RQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEB. 13 - 15, 1988

STARTED: FEB. 12, 1988

COMPLETED: FEB. 15, 1988

CLAIM NO:

PURPOSE: TEST FG LIMB AT 5125m ELEV

| DIP TESTS (corrected) | | | | | |
|-----------------------|---------|-------|--------|---------|-------|
| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
| 30.00 | | -47.0 | 150.00 | | -42.0 |
| 60.00 | | -45.0 | 180.00 | | -38.0 |
| 90.00 | | -43.0 | 210.00 | | -36.0 |
| 120.00 | | -42.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|-------------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|-------------|----|--------|----|--------|-------|--------|---------|

.00 22.90 OVERBURDEN

Sand to 60 feet; boulders to bedrock surface.

22.90 76.20 FELSIC TO INTERMEDIATE VOLCANICS

A volcanic.

Typical fine grained to medium grained light to medium grey volcanic package.

Quartz feldspar rich, with 5 to 10% yellow white sericite laminae up to 3 mm wide.

Well foliated at 56 to 69 degrees to the core axis, but increasing to 75 degrees to the core axis, below 72.0.

Very blocky and gravelly over 50 cm to 3 m section; silver dollar core developed over 50 cm sections in upper 70 m of unit.

22.30 57.50 Similar to text, but with 3% white feldspar crystals, less than or equal to 1.5 mm, generally parallel to foliation. Also 2 to 4% biotite laminae less than or equal to 1.0 mm developed throughout unit.

22.91 27.60 Rock RQD 40%.

27.60 40.79 Rock RQD 60%.

40.70 57.90 Rock RQD 30%.

57.90 67.20 Similar to text but very blocky, with numerous vuggy cavities and occasional potassic alteration; considerable white quartz veining less than or equal to 8 cm. 1 to 3% pyrite as veinlets parallel to foliation associated with vuggy cavities. 1.0 M CORE LOST between 64.0

FROM TO DESCRIPTION SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

D-3.
Similar to 76.2, but with 10 to 15% phlogopite, disseminated through lower half of unit.
Well foliated at 71 to 78 degrees to the core axis.
Less than or equal to 5% carbonate veinlets parallel to foliation, up to 1.5 cm.
Local 2-4e units developed over 50 cm.
Locally blocky over 30 to 40 cm.
Phlogopite content increases to 50% in lower 60 cm of unit.
87.30 101.60 Rock RQD 80 to 85%.
87.75 88.25 2-4e, quartz veins.

19486 87.75 88.25 .50 5-10 .94 .25 n/a .60

101.60 108.60 INTRAFORMATIONAL IRON FORMATION

2-4e.
Compositionally variable unit, composed of 25 to 30% moderately to heavily gruneritized 'ea' beds, up to 11 cm, with 10 to 15% 4 mm to 2.0 cm subhedral to amorphous garnets.
20 to 25% B volc material, locally developed as bands up to 10 cm.
10 to 15% garnet poor amphibole beds, moderately gruneritized, locally developed up to 1.0 cm.
10 to 15% Gt-J material, as bands 0.5 to 9.0 cm, with 3 to 5% 2 to 5 mm garnets.
5 to 10% 'b' beds, locally developed, less than or equal to 8 mm; generally heavily gruneritized.
Moderately to well banded and foliated at 58 to 72 degrees to the core axis.
Rare poorly developed left limb folds, tight, with axial plane 35 degrees to the core axis.
15 to 20% white quartz, as veins up to 1.5 cm, associated with 1 to 3, locally 3 to 5% pyrrholite as blebs, and weakly developed sulphide cement.

101.60 102.60 Rock RQD 80%.

101.60 103.10 2-4e, quartz veins.

103.10 104.60 2-4e, quartz veins.

104.60 106.10 2-4e, quartz veins.

106.10 107.60 2-4e, quartz veins.

107.60 108.60 2-4e, quartz veins.

19487 101.60 103.10 1.50 5-7 .43 .77 n/a .80
19488 103.10 104.60 1.50 1-3 .43 n/a n/a .43
19489 104.60 106.10 1.50 3-5 1.67 n/a 1.55 1.59
19490 106.10 107.60 1.50 1-3 1.57 n/a n/a 1.57
19491 107.60 108.60 1.00 2-4 2.49 n/a n/a 2.49

108.60 125.60 GARNET - BIFURCATE SCHIST

4f.
80 to 85% 'f' beds, 1 to 10 cm wide, with 30 to 35% 1 to 2 mm pinhead garnets.
10% white chert beds, 0.2 to 1.0 cm, throughout unit.
3 to 5% garnet amphibole beds, up to 4.0 cm, with 1 to 3% subhedral garnets less than or equal to 4 mm.

| FROM | TO | DESCRIPTION | SAMPLE FROM | TO | LENGTH | %G | AU g/t | RERUN | REJECT | AVERAGE | |
|--------|--------|--|-------------|--------|--------|------|--------|-------|--------|---------|-----|
| 156.70 | 161.00 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4fea. 50 to 60% 'f' beds, 0.6 to 2.0 cm, weakly to moderately chloritized, with 20 to 25% < 1 to 1 mm pinhead garnets. 25 to 30% moderately to heavily gruneritized 'ea' beds, less than or equal to 6.0 cm, with 10 to 15% 2 to 4 mm subhedral garnets. 10 to 15% 'b' beds, less than or equal to 6 mm, with 3 to 5% magnetite laminae. Well bedded at 30 to 53 degrees to the core axis. Occasional broad, open left limb folds throughout unit, with axial plane 62 degrees to the core axis, decreasing downhole to 35 degrees to the core axis at lower contact. 5% white quartz, as rare veins up to 4.0 cm, oriented at 79 to 80 degrees to the core axis; associated with rare trace pyrrhotite flecks. 156.70 161.00 Rock RQD 95 to 100%. | | | | | | | | | |
| 156.70 | 158.20 | 4fea, quartz very rare. | 19510 | 156.70 | 158.20 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 158.20 | 159.70 | 4fea. | 19511 | 158.20 | 159.70 | 1.50 | 0 | .03 | n/a | n/a | .03 |
| 159.70 | 161.00 | 4fea. | 19512 | 159.70 | 161.00 | 1.30 | 0 | .02 | n/a | n/a | .02 |

161.00 165.60 GARNET - BIOTITE SCHIST
4f.
Similar to 137.05.
Well bedded at 20 to 35 degrees to the core axis, increasing downhole to 62 degrees to the core axis.
Chert beds occasionally folded into tight left limb folds, with W style folding on fold crest; axial plane approx 56 degrees to the core axis.
161.00 165.60 Rock RQD 90%.

165.60 172.00 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST
4eaf.
Similar to 125.0, but with 60 to 70% moderately gruneritized 'ea' beds.
5% Heavily gruneritized 'f' beds, less than or equal to 9 mm, locally developed, with 1 to 2% disseminated magnetite.
Moderately to well bedded at 65 to 75 degrees to the core axis.
5% white quartz-carbonate veins, less than or equal to 1.0 cm, parallel to bedding, generally barren, but locally with 1 to 2% pyrrhotite specks.
Broad, open left limb fold at 167.0, with axial plane 56

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/l | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | degrees to the core axis ; antiformal fold closure at 157.92, with axial plane at 63 degrees to the core axis. | | | | | | | | | |
| | | 165.60 172.00 Rock EQD 90 to 95%. | | | | | | | | | |
| | | 165.60 157.10 leaf, quartz veins very rare. | 19513 | 165.60 | 167.10 | 1.50 | 0 | .25 | n/a | n/a | .25 |
| | | 167.10 169.60 leaf. | 19514 | 167.10 | 168.60 | 1.50 | 0 | .46 | n/a | n/a | .46 |
| | | 168.60 170.10 leaf. | 19515 | 168.60 | 170.10 | 1.50 | 0 | .90 | n/a | n/a | .90 |
| | | 170.10 171.60 leaf, rare quartz veins. | 19516 | 170.10 | 171.60 | 1.50 | TR-1 | 1.47 | n/a | n/a | 1.47 |
| | | 171.60 172.80 leaf, rare quartz veins. | 19517 | 171.60 | 172.80 | 1.20 | 1-2 | .10 | n/a | n/a | .10 |
| 172.90 | 176.70 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHEERT-GRUNERITE I.F. Kf(ea). 50 to 65% 'f' beds, 0.8 to 4.5 cm, although locally to 40 cm, with 20 to 25% < 1 to 1 mm pinhead garnets. 15 to 20% moderately to locally heavily gruneritized 'ea' beds, less than or equal to 2.5 cm, with 5 to 10% 2 to 5 mm garnets. 5 to 10% heavily gruneritized 'b' beds, 0.3 to 1.2 cm, locally developed ; carries 1 to 3% disseminated magnetite, very weakly magnetic. Well bedded at 50 to 65 degrees to the core axis. Very rare white quartz veins, less than or equal to 2.0 cm. barren. Rare poorly developed small right limb folds, axial plane 77 degrees to the core axis. | | | | | | | | | |
| | | 172.80 176.70 Rock RQD 99 to 95%. | | | | | | | | | |
| | | 172.80 174.30 Kf(ea), quartz veins. | 19518 | 172.80 | 174.30 | 1.50 | 0 | .04 | n/a | .03 | .03 |
| | | 174.30 175.80 Kf(ea), quartz veins. | 19519 | 174.30 | 175.80 | 1.50 | TR-1 | .04 | n/a | n/a | .04 |
| | | 175.80 176.70 Kf, rare quartz veins. | 19520 | 175.80 | 176.70 | .90 | TR | .31 | n/a | n/a | .31 |
| 176.70 | 186.50 | GARNET-AMPHIBOLE-CHEERT-GRUNERITE IFON FORMATION Kaa. Similar to 12E.5. 10 to 15% heavily gruneritized 'b' beds, in bands up to 10 cm, generally better developed in lower 1.5 m of unit. Moderately to well bedded at 56 degrees to the core axis, increasing gradually downhole to 67 degrees to the core axis at lower contact. 10 to 15% quartz, generally as veins up to 1.5 cm sub local bedding, but locally as silicified zones up to 30 cm, with associated moderate bedding disruption; veins associated with trace to 1%, locally 3 to 5% pyrrhotite ss specks and rare veinlets in quartz. Veins occasionally carry minor carbonate veinlets. | | | | | | | | | |
| | | 176.70 186.50 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 176.70 178.20 Kaa. | 19521 | 176.70 | 178.20 | 1.50 | TR-1 | .17 | n/a | n/a | .17 |
| | | 178.20 179.70 Kaa, rare quartz veins. | 19522 | 178.20 | 179.70 | 1.50 | TR | .43 | n/a | n/a | .43 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 173.70 | 181.20 | 4ea, quartz veins. | 19523 | 179.70 | 181.20 | 1.50 | 1-2 | 1.30 | n/a | n/a | 1.30 |
| 181.20 | 182.70 | 4ea, quartz-carbonate veins, locally silicified. | 19524 | 181.20 | 182.70 | 1.50 | 3-5 | 2.06 | n/a | n/a | 2.06 |
| 182.70 | 184.20 | 4ea, quartz-carbonate veins. | 19525 | 182.70 | 184.20 | 1.50 | 2-4 | 2.69 | n/a | n/a | 2.69 |
| 184.20 | 185.70 | 4ea, rare quartz veins. | 19526 | 184.20 | 185.70 | 1.50 | 1-3 | 1.61 | n/a | n/a | 1.61 |
| 185.70 | 186.50 | 4ea, silicified. | 19527 | 185.70 | 186.50 | .80 | 1-3 | .24 | n/a | .17 | .21 |

186.50 190.35 CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST
4baf.

Upper contact well defined.
50 to 60% heavily gruneritized 'b' beds, 0.3 to 3.2 cm, with 5 to 10% magnetite often forming a mottled magnetite in grunerite texture.
30 to 40% 'f' beds, 0.4 to 5.0 cm, locally moderately chloritized.
5% Moderately gruneritized 'ea' beds, less than or equal to 1.0 cm, locally developed from 187.0 to 186.35.
5 to 10% magnetite poor chert beds, locally developed, occasionally slightly necked.
Well bedded at 57 degrees to the core axis, increasing downhole to 73 degrees to the core axis at lower contact.
Rare tight left limb folds with axial plane 59 to 74 degrees to the core axis.
Up to 5% white quartz as veins sub parallel to bedding, associated with 1 to 2% pyrrhotite flecks; pyrrhotite also occurs locally as sulphide replacement of magnetite, texturally similar to 4h units.

| | | | | | | | | | | | |
|--------|--------|--|-------|--------|--------|------|-----|------|-----|-----|------|
| 186.50 | 190.35 | Rock RQD 85 to 90%. | | | | | | | | | |
| 186.30 | 189.30 | 4baf, quartz veins in 'ea' beds. | 19528 | 186.50 | 188.00 | 1.50 | 1-3 | 1.14 | n/a | n/a | 1.14 |
| 188.00 | 189.50 | 4baf, sulphide replacement of magnetite. | 19529 | 188.00 | 189.50 | 1.50 | 2-4 | 1.12 | n/a | n/a | 1.12 |
| 189.50 | 190.35 | 4baf, quartz veins. | 19530 | 189.50 | 190.35 | .85 | 2-4 | 1.30 | n/a | n/a | 1.30 |

190.35 193.30 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.
4ba.

Well banded unit comprised of:
50 to 50% 'b' beds, moderately to locally heavily gruneritized, with 20 to 25% disseminated magnetite.
30 to 40% magnetite poor chert beds, less than or equal to 1.0 cm, generally with 1 to 2 mm grunerite laminae at margins. Chert beds locally contain 1 to 2 mm internal grunerite laminae.
Less than or equal to 10% 'f' beds, 0.4 to 0.3 cm, locally 15 cm, weakly chloritized.
Less than or equal to 5% white quartz, as discrete veins up to 1.2 cm parallel to bedding. Veins carry trace to 1% pyrrhotite stringers.
Well bedded at 67 to 73 degrees to the core axis.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPS Au g/t PERM REJECT AVERAGE

MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | Bedding variable at 40 to 52 degrees to the core axis. Cleavage generally steeper to bedding at 40 to 55 degrees to the core axis. 16.40 19.10 Rock RQD 80%. 15.40 18.10 ka(f). | 20193 | 16.40 | 18.10 | 1.70 | 0 | .01 | n/a | n/a | .01 |
| 18.10 | 20.45 | METASEDIMENT MS. Similar to 14.0 to 16.4 with 25% intercalated ka(f) as described above, occurring from 19.70 to 20.45. 19.70 20.45 MS-ka(f). | 20194 | 19.70 | 20.45 | .75 | TR | .01 | n/a | n/a | .01 |
| 20.45 | 21.25 | GARNET - BIOTITE SCHIST kf. 35 to 40% 1 to 2 mm subhedral garnets supported by fine grained biotite poorly interbedded with 15% intensely gruneritized e beds and up to 5% recrystallized chert. Foliation at 30 degrees to the core axis. Nil sulphides. 20.45 21.25 Rock RQD 100%. 20.45 21.25 kf. | 20195 | 20.45 | 21.25 | .80 | 0 | .10 | n/a | n/a | .10 |
| 21.25 | 23.85 | CHERT - GRUNERITE IRON FORMATION ka(f). Similar to 16.4 18.1 with 25% intercalated argillaceous sediment. Upper and lower contacts defined by fine grained massive pyrrhotite bands. Pyrrhotite at lower contact appears as a replacement cement supporting 2.0 to 5.0mm subrounded chert fragments. Bedding at 50 degrees to the core axis but locally variable around open minor folds. Axial plane at 50 degrees to the core axis. 21.25 23.85 Rock RQD 95%. 21.25 22.50 ka(f). 22.50 23.85 ka(f). | 20196 | 21.25 | 22.50 | 1.25 | 5 | .05 | n/a | n/a | .05 |
| | | | 20197 | 22.50 | 23.85 | 1.35 | 10 | .94 | n/a | n/a | .94 |
| 23.85 | 25.55 | GARNET - BIOTITE SCHIST kf. Similar to 20.45 to 21.25 but with 2 to 3% pyrrhotite as local blebs and patches associated with gruneritized e beds. 23.85 24.85 kf. 24.85 25.55 kf. | 20198 | 23.85 | 24.85 | 1.00 | 2-3 | .54 | n/a | n/a | .54 |
| | | | 20199 | 24.85 | 25.55 | .70 | 2-3 | .15 | n/a | n/a | .15 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

25.55 39.20 FELSIC TO INTERMEDIATE VOLCANICS

A volcanic.
Typical fine grained siliceous light to medium grey felsic volcanic package.
Contains 5 to 8% yellowish green sericite bands less than or equal to 1.0 cm, parallel to foliation.
Well foliated at 38 to 43 degrees to the core axis.
Occasional development of white feldspar crystals, less than or equal to 2.0 mm long, oriented parallel to foliation.
Locally blocky, with breakage into many triangular pieces.
Rare silver dollar core developed. Gravelly over 10 to 20 cm sections.
25.55 39.20 Rock RQD 75 to 80%.
29.20 44.00 Rock RQD 75 to 80%.

39.20 65.15 INTERMEDIATE TO MAFIC VOLCANICS

B volcanic.
Typical fine grained to medium grained medium green grey feldspar amphibole volcanic package.
Contains less than or equal to 10% brown phlogopite, generally disseminated, but locally as a 26 cm band at upper contact.
Well foliated at 50 degrees to the core axis at upper contact, but decreasing gradually downhole to 23 degrees to the core axis at 26.1, and then increasing to 30 degrees to the core axis.
Locally bleached to a pale grey green, containing considerable carbonate; barren.
Unit blocky over 30 to 50 cm sections, with chlorite only poorly developed on broken surfaces.
44.00 56.70 Rock RQD 85 to 90%.
52.50 54.00 B volc, bleached.
56.70 65.15 Rock RQD 90%.

20200 52.50 54.00 1.50 0 .10 n/a n/a .10

65.15 71.10 GARNET-STAUROLITE-BIOTITE SCHIST

Mf.
25% 5 to 8 mm subhedral garnets, set in a matrix of 25 to 30% 1 to 7 mm yellow staurolite crystals, and 25 to 30% medium grained black biotite.
15 to 20% white quartz as broad quartz rich bands up to 10 cm containing only staurolite porphyroblasts.
Biotite crystals exhibit poor foliation; oriented in all directions, especially in staurolite rich areas.
Moderate compositional banding of garnet bands and quartz at 31 degrees to the core axis, increasing downhole to 54

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | REBUN | REJECT | AVERAGE | |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|--|
| 125.10 | 150.05 | Rock RQD 90 to 95%. | | | | | | | | | | |
| 127.25 | 127.75 | B-3, 14 cm quartz vein. | 20214 | 127.25 | 127.75 | .50 | 0 | .64 | n/a | n/a | .64 | |
| 130.00 | 131.30 | 3-E, 30 cm quartz vein. | 20215 | 130.00 | 131.30 | .50 | 0 | .69 | n/a | n/a | .69 | |
| 135.70 | 136.90 | 3-B, quartz vein up to 20 cm. | 20216 | 135.70 | 136.90 | 1.20 | 0 | .39 | n/a | n/a | .39 | |
| 140.00 | 141.00 | 3-B, 8 cm quartz vein. | 20217 | 140.00 | 141.30 | .50 | 0 | .69 | n/a | n/a | .69 | |
| 143.40 | 143.90 | 3-B, 25 cm zone of quartz-carbonate veining. | 20218 | 143.40 | 143.90 | .50 | 2 | .60 | n/a | n/a | .60 | |
| 147.90 | 148.90 | 3-B, quartz veins. | 20219 | 147.90 | 148.90 | 1.00 | 0 | .01 | n/a | .01 | .01 | |
| 150.05 | 156.00 | INTRAFORMATIONAL IPGM FORMATION | | | | | | | | | | |
| | | 2-4ea. | | | | | | | | | | |
| | | 70 to 75% moderately to well gruneritized 'ea' beds, 1 to 12 cm, with 30 to 35% 0.3 to 1.0 cm subhedral to amorphous garnets. | | | | | | | | | | |
| | | 15 to 20% B-3 volcanic material, as bands up to 30 cm, locally developed. | | | | | | | | | | |
| | | 10% blue quartz veins, less than or equal to 2.0 cm, sub parallel to bedding. Associated with trace to 1, locally 3 to 5% pyrrhotite as flecks and rare sulphide replacement of amphibole. | | | | | | | | | | |
| | | Moderately to well bedded at 28 to 50 degrees to the core axis. | | | | | | | | | | |
| 150.05 | 155.20 | Left limb folds, broad, open with axial plane 32 degrees to the core axis. | | | | | | | | | | |
| 150.05 | 156.00 | Rock RQD 85 to 90%. | | | | | | | | | | |
| 150.05 | 151.55 | 2-4ea, quartz veins. | 25978 | 150.05 | 151.55 | 1.50 | 1-2 | .01 | n/a | n/a | .01 | |
| 151.55 | 153.05 | 2-4ea, quartz rare. | 25978 | 151.55 | 153.05 | 1.50 | 1-2 | .01 | n/a | n/a | .01 | |
| 153.05 | 154.55 | 2-4ea, quartz veins. | 25980 | 153.05 | 154.55 | 1.50 | 2-4 | .01 | n/a | n/a | .01 | |
| 154.55 | 156.00 | 2-4ea, quartz veins. | 25981 | 154.55 | 156.00 | 1.45 | 3-5 | .05 | n/a | n/a | .05 | |
| 155.20 | 155.30 | Synformal fold closure, broad, open with axial plane 38 degrees to the core axis. | | | | | | | | | | |
| 155.30 | 156.00 | Rare left limb folds, with axial plane parallel to well defined fracture cleavage at 43 degrees to the core axis. | | | | | | | | | | |
| 156.00 | 168.90 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT | | | | | | | | | | |
| | | B-3. | | | | | | | | | | |
| | | Similar to 125.1. | | | | | | | | | | |
| | | Well foliated at 41 to 54 degrees to the core axis. | | | | | | | | | | |
| 156.00 | 158.90 | Rock RQD 100%. | | | | | | | | | | |
| 156.00 | 157.50 | B-3, carbonate veins, trace sample. | 25982 | 156.00 | 157.50 | 1.50 | 0 | .01 | n/a | .01 | .01 | |
| 168.90 | 172.00 | GARNET - BISTITE SCHIST | | | | | | | | | | |
| | | 4fe). | | | | | | | | | | |
| | | 75 to 80% laminated 'f' beds, less than or equal to 1.0 cm, with 15 to 20% less than or equal to 1.0 mm pinhead garnets. | | | | | | | | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RCRUM | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | plane parallel to fracture cleavage at 40 to 44 degrees to the core axis. | | | | | | | | | |
| 184.90 | 184.90 | 4fba, carbonate-quartz veins. | 20230 | 184.00 | 184.90 | .90 | 0 | .01 | n/a | .01 | .01 |
| 184.90 | 197.40 | CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4baf. 50 to 60% heavily gruneritized 'b' beds, laminated to finely bedded up to 6 mm, with 15 to 20% magnetite laminae. 25 to 30% moderately chloritized 'f' beds, less than or equal to 8 mm, with 5 to 10% 2 to 3 mm subhedral garnets. 15 to 20% magnetite poor chert beds, up to 2.0 cm. 5 to 10% garnet poor amphibole beds, generally as laminae up to 3 mm, locally developed. Well bedded at 35 degrees to the core axis, decreasing downhole to 26 degrees to the core axis at lower contact. Considerable broad, open right limb folding throughout unit with axial plane parallel to well developed fracture cleavage at 65 to 68 degrees to the core axis. Less than or equal to 5% quartz-carbonate veins, locally developed sub parallel to bedding, barren. | | | | | | | | | |
| 184.90 | 187.40 | Rock RQD 100%. | | | | | | | | | |
| 184.90 | 186.40 | 4baf, character sample. | 20231 | 184.90 | 186.40 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 185.40 | 187.40 | 4baf, character sample. | 20232 | 186.40 | 187.40 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 187.40 | 190.95 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4b(f). 50 to 60% 'b' beds, 1 to 10 mm wide, moderately gruneritized, with 15 to 20% generally disseminated magnetite. 30 to 35% magnetite poor chert beds, less than or equal to 1.0 cm. 10 to 15% moderately to locally heavily chloritized 'f' beds, less than or equal to 2.0 cm, locally developed. Beds often rimmed by 1 to 3 mm grunerite laminae. Very well bedded at 28 to 30 degrees to the core axis. Rare quartz-carbonate veins less than or equal to 1 cm, cut bedding at approx 65 degrees to the core axis. Associated with trace to 1% pyrite flecks and blebs up to 3 mm. Rare right limb kink folds, with axial plane 69 degrees to the core axis. Very blocky, with gravelly chloritic sections over 10 to 50 cm. | | | | | | | | | |
| 187.40 | 190.95 | Rock RQD 50 to 55%. | | | | | | | | | |
| 187.40 | 189.90 | 4b(f), quartz-carbonate, trace to 1% pyrite. | 20233 | 187.40 | 189.90 | 1.50 | TR | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | compositional banding. | | | | | | | | | |
| 239.70 | 247.45 | Rock RQD 100%. | | | | | | | | | |
| 239.70 | 241.10 | Mf, character sample. | 20246 | 239.70 | 241.10 | 1.40 | 0 | .05 | n/a | n/a | .05 |
| 243.45 | 250.30 | Rock RQD 100%. | | | | | | | | | |
| 243.50 | 245.00 | Mf, character sample. | 20247 | 243.50 | 245.00 | 1.50 | 0 | .10 | n/a | n/a | .10 |
| 247.45 | 250.30 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
| | | B volcanic. | | | | | | | | | |
| | | Similar to 221.24. | | | | | | | | | |
| | | Well foliated at 26 degrees to the core axis. | | | | | | | | | |
| | | Moderately developed conjugate fracture cleavage, | | | | | | | | | |
| | | carbonate filled at 90 degrees to foliation; exhibits | | | | | | | | | |
| | | bleached halo extending into surrounding rock 2 to 5 mm. | | | | | | | | | |
| 250.30 | 252.50 | GARNET-STAUROLITE-BIOTITE SCHIST | | | | | | | | | |
| | | Mf. | | | | | | | | | |
| | | Similar to 213.1. | | | | | | | | | |
| | | Well foliated and weak compositional banding at 25 to 39 | | | | | | | | | |
| | | degrees to the core axis. | | | | | | | | | |
| | | Upper contact contains 10 cm band of amph with rare quartz | | | | | | | | | |
| | | veins, and trace to 1% pyrrhotite replacement in amphibole | | | | | | | | | |
| 250.30 | 252.50 | Rock RQD 100%. | | | | | | | | | |
| 250.30 | 251.30 | Mf, amphibole beds. | 20248 | 250.30 | 251.30 | 1.00 | TR-1 | .05 | n/a | n/a | .05 |
| 252.50 | 255.25 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT | | | | | | | | | |
| | | B-3. | | | | | | | | | |
| | | Similar to 116.9. | | | | | | | | | |
| | | Well foliated at 28 to 39 degrees to the core axis. | | | | | | | | | |
| 252.50 | 255.25 | Rock RQD 95 to 100%. | | | | | | | | | |
| 255.25 | 257.40 | INTRAFORMATIONAL IFON FORMATION | | | | | | | | | |
| | | 2-4fe. | | | | | | | | | |
| | | 20 to 25% chert beds. | | | | | | | | | |
| | | 30 to 35% blue quartz with pyrrhotite as stringers and | | | | | | | | | |
| | | blebs. | | | | | | | | | |
| | | Well preserved bedding at 43 to 50 degrees to the core axis | | | | | | | | | |
| 255.25 | 256.20 | silicified 4f, 80 to 65% f beds, 10 to 15% | | | | | | | | | |
| | | garnets to 2 mm, with 35 to 40% blue quartz | | | | | | | | | |
| | | and pyrrhotite stringers. | | | | | | | | | |
| 255.25 | 256.25 | 4f silicified. | 20249 | 255.25 | 256.25 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 255.26 | 257.40 | Rock RQD 100%. | | | | | | | | | |
| 256.20 | 257.40 | Typical 2-4e, 35 to 40% green amphibole rich | | | | | | | | | |
| | | e beds, locally grunerite with garnet | | | | | | | | | |
| | | clusters to 4 mm. | | | | | | | | | |
| 256.25 | 257.40 | 2-4e. | 20250 | 256.25 | 257.40 | 1.15 | 10-15 | .44 | n/a | n/a | .44 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | BERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | amphibole. | | | | | | | | | |
| 285.80 | 289.50 | Rock RQD 100%. | | | | | | | | | |
| 286.80 | 288.30 | 2-4f(e), quartz veins. | 20255 | 286.80 | 288.30 | 1.50 | 3-5 | 2.91 | n/a | n/a | 2.91 |
| 288.30 | 289.50 | 2-4f(e), rare quartz-carbonate veins. | 20256 | 288.30 | 289.50 | 1.20 | 1-3 | .05 | n/a | n/a | .05 |
| 289.50 | 292.25 | GARNET-BIOTITE SCHIST / CHERT-GRUNERITE I.F. 4f(a). 55 to 60% 'f' beds, from 1 to 4.5 cm, locally to 20 cm, with 20 to 25% 1 to 2 mm pinhead garnets. 25 to 30% 'a' beds, less than or equal to 2.0 cm, generally with chert rich cores and 2 to 4 mm grunerite rich margins; best developed in lower 1.2 m of unit. Generally well bedded at 47 to 48 degrees to the core axis. | | | | | | | | | |
| 289.50 | 292.25 | Rock RQD 80%. | | | | | | | | | |
| 289.50 | 290.50 | 4f(a), quartz rare. | 20257 | 289.50 | 290.50 | 1.00 | TR-1 | .10 | n/a | n/a | .10 |
| 290.50 | 291.50 | 4fe, heavily silicified. | 20258 | 290.50 | 291.50 | 1.00 | 5-10 | 9.83 | 10.15 | n/a | 9.80 |
| 290.63 | 290.95 | 4ea weakly gruneritized, very heavily silicified, with complete bedding destruction; quartz associated with 10 to 15% pyrrhotite over this section as well developed sulphide replacement of amphibole. 2 specks visible gold noted. | | | | | | | | | |
| 291.50 | 292.25 | 4fa. | 20259 | 291.50 | 292.25 | .75 | TR | .05 | n/a | n/a | .05 |
| 292.25 | 295.20 | INTRAFORMATIONAL IRON FORMATION B-4e CONTACT ZONE. Compositional banding unit composed of 35 to 40% moderately gruneritized 'ea' beds, 1 to 2 cm, with 10 to 15% 2 to 6 mm subhedral garnets. 50 to 60% 3-B material as broad bands containing up to 3% white carbonate stringers parallel to foliation well foliated and banded at 36 to 48 degrees to the core axis. 10 to 15% blue quartz, as veins up to 1.0 cm in B-3 material, but as well developed silicified zones with extensive bedding disruption in 'ea' beds. 5 to 7% pyrrhotite as well developed sulphide cement and sulphide replacement of amphibole in 'ea' beds; 5 specks Vg and one 8 mm long veinlet of Vg noted. NB: this unit would appear to represent a contact zone between the overlying B volcanic material and the proper '4ea' iron formation. | | | | | | | | | |
| 292.25 | 295.20 | Rock RQD 100%. | | | | | | | | | |
| 292.25 | 293.25 | 4e-B, silicified, 4 specks Vg and 6 mm Vg veinlet. | 20260 | 292.25 | 293.25 | 1.00 | 5-7 | 6.99 | 7.13 | n/a | 7.08 |
| 293.25 | 294.25 | 3-B, quartz veins. | 20261 | 293.25 | 294.25 | 1.00 | 2-4 | 1.23 | 1.44 | n/a | 1.34 |
| 294.25 | 295.20 | 4e-B, quartz veins 1 speck Vg. | 20262 | 294.25 | 295.20 | .95 | 5-7 | 6.99 | 6.75 | n/a | 6.87 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp' | Au g/t | REPM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|------|--------|---------|
| 295.20 | 296.70 | GARNET - BICTITE SCHIST kf. Laminated 'f' beds in bands up to 10 cm wide, with 10 to 15% < 1 mm pinhead garnets. 10% Heavily gruneritized ea beds, up to 1.0 cm, with 3 to 5% 2 to 4 mm garnets. Well bedded at 40 to 49 degrees to the core axis. Less than or equal to 5% blue quartz as poorly defined veins up to 1.0 cm, associated with 5% pyrrhotite as veinlets and locally developed sulphide replacement of amphibole. 295.30 296.70 Rock RQE 100%. 295.30 296.70 kf, quartz veins. | 20263 | 295.30 | 296.70 | 1.40 | 3-5 | 2.57 | n/a | n/a | 2.57 |
| 296.70 | 299.60 | GARNET-AMPHIBOLE-CHERT-GRUNERITIZED IRON FORMATION kca. 55 to 60% moderately to heavily gruneritized 'ea' beds, up to 3.6 cm, with 20 to 25% 0.2 to 1.0 cm subhedral to amorphous garnets. 10 to 15% mafic wedges of B-3 material, locally developed over 10 to 15 cm. 10 to 15% chert beds, less than or equal to 8 mm. 5 to 10% 'f' beds, less than or equal to 1.0 cm locally developed. Moderately bedded at 30 to 52 degrees to the core axis. 10 to 15% blue quartz, as 0.5 to 1.0 cm veins sub parallel to bedding, but also as silicified zones over 20 to 50 cm with associated moderate bedding disruption. Quartz associated with 3 to 5% pyrrhotite as moderately developed sulphide cement in 'ea' beds, and as occasional veinlets. 296.70 299.60 Rock RQD 90%. 296.70 297.70 kca, occasional quartz veins. 297.70 298.70 kca, silicified. 296.70 299.60 kca, quartz veins. | 20264 | 296.70 | 297.70 | 1.00 | 1-3 | .05 | n/a | n/a | .05 |
| | | | 20265 | 297.70 | 298.70 | 1.00 | 3-5 | .15 | n/a | n/a | .15 |
| | | | 20266 | 298.70 | 299.60 | .90 | 3-5 | 1.15 | n/a | 1.17 | 1.16 |
| 299.60 | 303.45 | INTERMIXED MAFIC VOLCANICS AND POSTAESTIC BASALT B-3. Similar to 116.9. Well foliated at 41 to 47 degrees to the core axis. Slightly garnetiferous in lower 50 cm of unit. 299.60 303.45 Rock RQD 90%. | 20267 | 299.60 | 301.10 | 1.50 | 0 | .05 | n/a | n/a | .05 |
| | | | 20268 | 301.10 | 302.60 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | | 20269 | 302.60 | 303.45 | .85 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | AN g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | with axial plane parallel to well defined fracture cleavage at 27 to 46 degrees to the core axis. 3 to 5% white quartz veins, 3 to 20 cm, associated with rare trace pyrrhotite flecks. 323.60 330.80 Rock RQD 100%. | | | | | | | | | |
| | | 323.60 325.10 Abf, character sample. | 20290 | 323.60 | 325.10 | 1.50 | TR | .15 | n/a | n/a | .15 |
| | | 327.80 329.30 Abf, 20 cm quartz vein. | 20291 | 327.80 | 329.30 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 329.30 330.80 Abf, 5 cm quartz veins. | 20292 | 329.30 | 330.80 | 1.50 | TR-1 | .15 | n/a | n/a | .15 |
| 330.80 | 332.40 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST leaf. Compositionally variable unit composed of 60 to 65% moderately to heavily gruneritized 'ea'. Beds, 1 to 2 cm, with 20 to 25% 0.3 to 2.0 cm subhedral to amorphous garnets; 'ea' beds best developed below 331.35. 15 to 20% 'f' beds, 0.5 to 1.0 cm, moderately chloritized, with 5 to 10% 3 to 7 mm subhedral garnets. Moderately to well bedded at 25 to 26 degrees to the core axis. 10 to 15% quartz, generally as veins less than or equal to 1.0 cm parallel to bedding, but locally displaying slight bedding disruption. Quartz veins associated with only trace pyrrhotite. Tight left limb fold at 331.6, with axial plane 30 degrees to the core axis. | | | | | | | | | |
| | | 330.90 332.40 Rock RQD 100%. | | | | | | | | | |
| | | 330.80 331.50 kfe, quartz veins. | 20293 | 330.80 | 331.50 | .70 | 1-2 | 1.06 | n/a | n/a | 1.06 |
| | | 331.50 332.40 kfe, quartz veins. | 20294 | 331.50 | 332.40 | .90 | 5-8 | 0.20 | 10.04 | n/a | 10.02 |
| | | 332.20 332.40 Similar to text, but with 10 to 15% pyrrhotite as sulphide replacement of amphibole, not associated with quartz veining. | | | | | | | | | |
| 332.40 | 339.05 | INTERMIXED POTASSIC BASALT AND MAFTIC VOLCANICS 3-B. Similar to 195.7, but B volc content 25 to 30% as broad band below 336.9. Well foliated at 39 to 42 degrees to the core axis. 10 to 15% carbonate-quartz veins, up to 11 cm, parallel to foliation, with locally 1 to 3% pyrrhotite bleb up to 2 mm. | | | | | | | | | |
| | | 332.40 339.05 Rock RQD 100%. | | | | | | | | | |
| | | 335.00 336.50 3-B, carbonate-quartz veins. | 20295 | 335.00 | 336.50 | 1.50 | 1-3 | .73 | n/a | n/a | .73 |
| | | 336.75 339.05 B-3, character sample. | 20296 | 336.75 | 339.05 | 1.00 | 0 | .10 | n/a | n/a | .10 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MW:562
PAGE NO: 19

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t REGRUN REJECT AVERAGE

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 0082.7 5932.5 SURVEYED: YES

PLACER DOME INC.

LOCATION: 32+00N 2+05W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5563
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 200.0

ELEVATION: 5302.5

LOGGED BY: N. BECKETT

DIP: -47.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEB. 17 - 10, 1988

STARTED: FEB. 15, 1988

COMPLETED: FEB. 18, 1988

CLAIM NO:

PURPOSE: TEST ESKER ZONE AT 5200m ELEV

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -44.0 | 150.00 | | -37.0 |
| 60.00 | | -43.0 | 180.00 | | -31.0 |
| 90.00 | | -43.0 | 200.00 | | -32.0 |
| 120.00 | | -38.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Av | g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|----|-----|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|----|-----|-------|--------|---------|

| | | | | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|--|
| .00 | 22.60 | OVERBURDEN Sand, gravel, and occasional boulders. | | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| 22.60 | 88.90 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|

A volcanic.

Typical fine grained to medium grained light grey quartz feldspar volcanic package, with 10 to 15% yellowish white sericite laminae up to 5 mm.

5% Biotite, as < 1 mm laminae parallel to foliation.

1 to 5% carbonate and carbonate-quartz veins, 0.1 to 3.7 cm, parallel to foliation; barren.

Well foliated at 50 to 65 degrees to the core axis.

22.60 30.50 Moderately blocky, gravelly over 20 to 50 cm sections, local silver dollar core.

22.61 30.50 Rock RQD 55%.

30.50 57.00 Similar to text, but with less than or equal to 5% sericite, locally developed. Locally blocky over 10 to 30 cm, carbonate rich in blocky sections.

30.51 57.00 Rock RQD 85 to 90%.

57.00 66.20 Similar to main text; foliated at 61 to 69 degrees to the core axis.

57.01 66.20 Rock RQD 85 to 90%.

66.20 69.40 Similar to text but with moderately defined compositional banding of medium grey A volc material and 5 to 10% garnet chert staurolite beds, up to 8 mm. 'A volc' material contains up to 15% biotite, and is more medium in

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | plane 65 degrees to the core axis ; fold plunge is shallow (ie: 5 to 10 degrees) grid north. | | | | | | | | | |
| | | 170.60 174.60 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 170.60 172.10 4ef, quartz coarse veins. | 19577 | 170.60 | 172.10 | 1.50 | TR | 1.06 | n/a | n/a | 1.06 |
| | | 172.10 173.60 4ef, quartz-carbonate veins. | 19578 | 172.10 | 173.60 | 1.50 | TR | 2.52 | n/a | n/a | 2.52 |
| | | 173.60 174.60 4ef, rare quartz-carbonate veins. | 19579 | 173.60 | 174.60 | 1.00 | TR | .87 | n/a | n/a | .87 |
| 174.60 | 178.50 | POTASSIC BASALT 3. Similar to 115.6. Well foliated at 69 to 77 degrees to the core axis. Rare carbonate-quartz veins, barren, parallel to foliation. Rare poorly defined left limb folds, broad, open , with axial plane 50 degrees to the core axis. 174.60 178.50 Rock RQD 100%. | | | | | | | | | |
| 178.50 | 179.85 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4a3. Similar to 166.4. Moderately bedded at 67 to 68 degrees to the core axis. 10 to 15% blue quartz as veins parallel to bedding, but locally causing minor bedding disruption. 1 to 3% pyrrhotite as poorly developed sulphide replacement in amphibole associated with quartz veins. 178.50 179.85 Rock RQD 100%. 178.50 179.85 4a3, quartz veins. | 19580 | 178.50 | 179.85 | 1.35 | 1-3 | 2.20 | n/a | 2.00 | 2.10 |
| 179.85 | 183.15 | CHELT-MAGNETITE I.F. / CHELT-GRUNERITE I.F. 4bae. 60 to 85% very heavily gruneritized 'b' beds, 0.5 to 2.5 cm, often displaying mottled magnetite in grunerite texture. 15 to 20% poorly developed 'a' beds, less than or equal to 2.0 cm, with 5 to 10% 2 to 4 mm subhedral garnets ; beds very heavily gruneritized. ? to 5% 'f' beds, less than or equal to 9 mm, locally developed. Rare chert beds, magnetite poor, less than or equal to 1.0 cm, locally developed. Well bedded at 74 degrees to the core axis, increasing downhole to 89 degrees to the core axis at lower contact. 179.85 183.15 Rock RQD 100%. 179.85 181.35 4bae, character sample. 181.35 182.50 4bae, character sample. 182.50 183.15 4bae, character sample. | 19581 | 179.85 | 181.35 | 1.50 | 0 | 1.54 | n/a | n/a | 1.54 |
| | | | 19582 | 181.35 | 182.50 | 1.15 | 0 | .82 | n/a | n/a | .82 |
| | | | 19583 | 182.50 | 183.15 | .65 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE FROM | TO | LENGTH | %Po | Aw g/t | RERUM | REJECT | AVERAGE | |
|--------|--------|--|-------------|--------|--------|------|--------|-------|--------|---------|------|
| 183.15 | 186.00 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. kba. Well banded unit of 60 to 65% 'b' beds, laminated to thinly bedded in bands up to 1.0 cm, with 25 to 30% magnetite. 20 to 25% 'a' beds, less than or equal to 1.0 cm, best developed in lower 10 cm of unit. 10 to 15% magnetite poor chert beds, locally boudinaged. 1 to 2 mm grunerite laminae at contact of chert and 'b' beds. Well bedded at 75 to 79 degrees to the core axis. 3 to 5% quartz veins, less than or equal to 2.0 cm, sub parallel to bedding, associated with 1 to 3% pyrrhotite as veinlets and blebs up to 5 mm. 183.15 186.00 Rock RQD 100%. 183.15 184.65 kba, 2.0 cm quartz vein. 184.65 186.00 kba, quartz veins. | 19584 | 183.15 | 184.65 | 1.50 | 1-3 | .05 | n/a | n/a | .05 |
| | | | 19585 | 184.65 | 186.00 | 1.35 | 2-4 | 1.24 | n/a | n/a | 1.24 |
| 186.00 | 189.00 | BASALT 2. Typical fine grained to medium grained medium green amphibole feldspar biotite homogeneous volcanic package. Well foliated at 83 to 84 degrees to the core axis. Rare carbonate veinlets parallel to foliation, less than or equal to 2 mm. 186.00 189.00 Rock RQD 80%. | | | | | | | | | |
| 189.00 | 189.80 | SULFIDE FACIES IRON FORMATION kbb. Upper half of unit dominated by 30% chert fragments in a massive pyrrhotite matrix, but locally displaying evidence of sulfide replacement of magnetite. Lower portion of unit consists of 'ba' beds similar to 183.15, with only trace pyrrhotite. Moderately to well bedded at approx 84 degrees to the core axis. 189.00 189.80 Rock RQD 100%. 189.00 189.80 kbb, character sample. | 19586 | 189.00 | 189.80 | .80 | 35 | .34 | .10 | n/a | .22 |
| 189.80 | 200.00 | BASALT 2. Similar to 186.0. Well foliated at 69 to 82 degrees to the core axis. 189.80 192.35 Moderately blocky, with gravelly sections over 20 to 40 cm. 189.80 191.30 2, character sample. | 19587 | 189.80 | 191.30 | 1.50 | 0 | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Av g/t RERUN REJECT AVERAGE

189.81 192.35 Rock RQD 50%.

192.35 200.00 Locally bleached, with 20 to 25%
disseminated carbonate throughout.

192.36 200.00 Rock RQD 80 to 85%.

200.00 200.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORE: 6702.7 7400.2 SURVEYED: YES

PLACER DOME INC.

LOCATION: 12+00N 0+00 GRID: WEST

DIAMOND DRILL RECORD

HOLE NO: NUS564
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 229.1

LENGTH: 470.0

ELEVATION: 5302.5

LOGGED BY: Paul Gertzbein

DIP: -64.5

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 16-24, 1988

STARTED: FEBRUARY 15, 1988

COMPLETED: February 24, 1988

CLAIM NO:

PURPOSE: TEST 4975 & EL 7 ANTIFORM

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 14.00 | | -60.0 | 240.00 | | -58.0 |
| 30.00 | | -66.0 | 270.00 | | -57.0 |
| 60.00 | | -65.0 | 300.00 | | -55.0 |
| 90.00 | | -64.0 | 330.00 | | -53.0 |
| 120.00 | | -63.0 | 360.00 | | -53.0 |
| 150.00 | | -62.0 | 390.00 | | -51.0 |
| 180.00 | | -62.0 | 420.00 | | -51.0 |
| 210.00 | | -60.0 | 450.00 | | -48.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | An | g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|----|-----|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|----|-----|-------|--------|---------|

| | | | | | | | | | | | | |
|-----|------|-------------------------|--|--|--|--|--|--|--|--|--|--|
| .00 | 9.65 | OVERBURDEN Boulders. | | | | | | | | | | |
|-----|------|-------------------------|--|--|--|--|--|--|--|--|--|--|

9.65 14.30 CHERT - MAGNETITE IRON FORMATION

4b.

30 to 35% magnetite as bands of laminae and thin beds.

Up to 10% grunerite as alteration of magnetite.

20 to 25% chert beds 1 to 2 cm, generally with grunerite laminae.

30 to 35% quartz pyrrhotite veins, ranging in size from 3 to 50 cm, generally with inclusions of host rock. Pyrrhotite occurs as stringers and blebs in quartz veins and as discrete veins in host rock.

3 to 5% f beds moderately chloritized.

Moderately preserved bedding at 27 to 52 degrees to the core axis.

Well developed fracture cleavage at 20 to 40 degrees to the core axis.

Right limb folding axial plane 17 to 23 degrees to the core axis.

9.65 14.30 Rock FQD 75%.

9.65 10.65 4b quartz pyrrhotite 4 specks visible gold.

21540 9.65 10.65 1.00 3-8 21.02 22.74 n/a 22.20

10.65 11.65 4b quartz pyrrhotite.

21541 10.65 11.65 1.00 3-5 5.00 n/a 4.64 4.02

11.65 12.65 4b quartz pyrrhotite.

21542 11.65 12.65 1.00 TR-1 .69 n/a n/a .69

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Av g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | chert beds and margins of magnetite beds. 5 to 17% quartz pyrrhotite veins generally 2 to 3 cm. Poorly to moderately preserved bedding at 10 to 20 degrees to the core axis. Well developed fracture cleavage at 39 to 49 degrees to the core axis. Left limb folding axial plane 18 to 34 degrees to the core axis. 29.70 35.55 Rock RQD 100%. | | | | | | | | | |
| | | 29.70 30.50 4ba, rare quartz. | 25967 | 29.70 | 30.50 | .80 | TR | .69 | n/a | n/a | .69 |
| | | 30.50 32.00 4ba quartz pyrrhotite. | 21546 | 30.50 | 32.00 | 1.50 | TR-1 | 12.69 | n/a | 11.35 | 12.02 |
| | | 32.00 33.50 4ba. | 25968 | 32.00 | 33.50 | 1.50 | TR | .34 | n/a | n/a | .34 |
| 35.55 | 40.75 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. As described 14.3 to 18.05. Well preserved bedding at 16 to 35 degrees to the core axis Moderately developed fracture cleavage at 50 to 65 degrees to the core axis. Left limb folding axial plane 30 to 45 degrees to the core axis. 35.56 40.75 Rock RQD 100%. | | | | | | | | | |
| 40.75 | 47.15 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4b(a). Similar to 29.7 to 35.55. Less grunerite alteration 5 to 10%. Poorly to moderately preserved bedding at 14 to 23 degrees to the core axis. Well developed fracture cleavage at 31 to 57 degrees to the core axis. 46.35 to 46.8 blocky 0 rqd. 40.75 47.15 Rock RQD 90%. | | | | | | | | | |
| | | 44.00 45.50 4ba quartz pyrrhotite. | 21549 | 44.00 | 45.50 | 1.50 | TR-1 | .10 | n/a | n/a | .10 |
| | | 45.50 47.00 4ba quartz pyrrhotite. | 21550 | 45.50 | 47.00 | 1.50 | TR-1 | .05 | n/a | .05 | .05 |
| 47.15 | 49.60 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. As described 14.3 to 18.05. Well preserved bedding at 7 to 11 degrees to the core axis. Well developed fracture cleavage at 52 degrees to the core axis. Left limb folding axial plane 41 to 47 degrees to the core axis. Pyrrhotite veins as fracture cleavage filling. 47.15 49.60 Rock RQD 100%. | | | | | | | | | |
| | | 48.10 49.60 4fb pyrrhotite veins. | 21551 | 48.10 | 49.60 | 1.50 | 1-2 | .05 | n/a | n/a | .05 |

FROM TODESCRIPTION..... SAMPLE FROM TO LENGTH Sp. Au g/t REGRN REJECT AVERAGE

49.80 57.70 CHERT - MAGNETITE IRON FORMATION

4b.
75 to 80% magnetite, finely laminated in cherty matrix.
5 to 10% chert beds to 1.5 cm, boudinaged and disrupted by fracture cleavage.
3 to 5% quartz veins.
3 to 5% grunerite as alteration of magnetite.
Well preserved bedding at 10 to 17 degrees to the core axis
Well developed fracture cleavage at 20 to 30 degrees to the core axis.
Left limb folding axial plane 30 degrees to the core axis to 56.0 m.
56.0 to 57.7 right limb folding axial plane 15 degrees to the core axis, fracture cleavage 47 degrees to the core axis.
49.61 57.70 Rock RQD 100%.
56.20 57.70 4b.

25968 56.20 57.70 1.50 0 .01 n/a n/a .01

57.70 70.30 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bf.
55 to 60% magnetite as laminated bands and thin beds.
20 to 25% fine grained chloritized f beds, 5 to 10% garnets to 1 mm. Generally 0.5 to 1.0 cm evenly distributed throughout unit.
3 to 5% grunerite alteration of magnetite.
1 to 2% carbonate as fracture cleavage filling.
5 to 10% quartz pyrrhotite veining.
56.0 to 63.0 fracture cleavage at 25 to 31 degrees to the core axis, bedding 30 to 40, indicating right limb of a fold also right limb folding axial plane 29 degrees to the core axis.
63.0 to 70.3 fracture cleavage at 30 to 50 degrees to the core axis, bedding at 19 to 30 degrees to the core axis with left limb folds, axial plane 26 degrees to the core axis.
57.70 70.30 Rock RQD 100%.
57.70 59.00 4bf quartz pyrrhotite.
59.00 60.00 4bf.
55.50 66.50 4bf.
66.50 68.00 4bf quartz pyrrhotite.
68.00 69.50 4bf quartz pyrrhotite.

21552 57.70 59.00 1.30 5-10 0.24 1.22 n/a 0.23
21553 59.00 60.00 1.00 TR .10 n/a n/a .10
21554 65.50 66.50 1.00 TR .05 n/a n/a .05
21555 66.50 68.00 1.50 3-5 .73 n/a n/a .73
21556 68.00 69.50 1.50 TR-1 .29 n/a n/a .29

70.30 75.80 GARNET-BIOTITE SCHIST / CHERT-MAGNETITE-GARNET-AMPHIBOLE

I.F.
4fbe.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | AV g/t | REGRUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|-----|--------|--------|--------|---------|
| | | 50 to 55% f beds, 1 to 1.5 cm, 5 to 10% garnets to 2 mm. Moderately chloritized. | | | | | | | | | |
| | | 25 to 30% chert magnetite beds to 1 cm, magnetite as laminae in chert. | | | | | | | | | |
| | | 10 to 15% e beds green amphibole rich, increasing grunerite alteration down hole forming insipient ea beds. | | | | | | | | | |
| | | 5 to 10% grunerite as alteration of magnetite and e beds. | | | | | | | | | |
| | | 2 to 3% quartz pyrrhotite veining. | | | | | | | | | |
| | | Well preserved bedding at 21 to 28 degrees to the core axis | | | | | | | | | |
| | | Poorly developed fracture cleavage at 48 degrees to the core axis. | | | | | | | | | |
| | | Left limb folding 23 to 27 degrees to the core axis. | | | | | | | | | |
| | | 70.30 75.80 Rock RQD 90%. | | | | | | | | | |
| | | 70.30 71.80 4fba. | 21557 | 70.30 | 71.80 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 71.80 73.30 4fba. | 21558 | 71.80 | 73.30 | 1.50 | TR | .10 | n/a | n/a | .10 |
| | | 73.30 74.80 4fba. | 21559 | 73.30 | 74.80 | 1.50 | TR | .05 | n/a | n/a | .05 |
| | | 74.80 75.80 4fba. | 21560 | 74.80 | 75.80 | 1.00 | TR | .01 | n/a | .01 | .01 |
| 75.80 | 77.80 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. | | | | | | | | | |
| | | 4bea. | | | | | | | | | |
| | | 40 to 45% moderately formed ea beds, 25 to 30% amorphous to euhedral garnets in grunerite matrix. | | | | | | | | | |
| | | 45 to 50% b beds 15 to 20% magnetic laminae in chert beds and as mottled remnants in gruneritized beds. | | | | | | | | | |
| | | 3 to 5% green amphibole rich remnants of e beds associated with ea beds. | | | | | | | | | |
| | | Moderately preserved bedding at 19 degrees to the core axis | | | | | | | | | |
| | | 75.80 77.80 Rock RQD 100%. | | | | | | | | | |
| | | 75.80 76.80 4bea. | 21561 | 75.80 | 76.80 | 1.00 | TR | .10 | n/a | n/a | .10 |
| | | 76.80 77.80 4bea. | 21562 | 76.80 | 77.80 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 77.80 | 80.20 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST | | | | | | | | | |
| | | 4bf. | | | | | | | | | |
| | | 60 to 65% magnetite as laminae and thin beds in cherty matrix. Beds less than 1 cm. | | | | | | | | | |
| | | 25 to 30% f beds 3 to 8 mm, 5 to 10% garnets to 1 mm. | | | | | | | | | |
| | | 2 to 3% grunerite alteration of magnetite, increasing toward lower contact. | | | | | | | | | |
| | | Well preserved bedding at 28 to 33 degrees to the core axis | | | | | | | | | |
| | | Fracture cleavage at 38 degrees to the core axis. | | | | | | | | | |
| | | Left limb folding axial plane 22 degrees to the core axis. | | | | | | | | | |
| | | 77.80 80.20 Rock RQD 100%. | | | | | | | | | |
| | | 77.80 79.30 4bf. | 21563 | 77.80 | 79.30 | 1.50 | TR | .44 | n/a | n/a | .44 |
| | | 79.30 80.20 4bf. | 21564 | 79.30 | 80.20 | .90 | TR | 1.78 | n/a | n/a | 1.78 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUM REJECT AVERAGE

amorphous garnets to 1 cm in grunerite matrix.
15 to 20% chert beds and or remobilized quartz.
3 to 5% f beds randomly throughout.
Pyrrhotite occurs as blebs in ea beds.
Moderately preserved bedding at 33 to 53 degrees to the
core axis decreasing down hole.
Right limb folding axial plane 23 to 45 degrees to the
core axis.

| | | | | | | | | | | | |
|--------|--------|----------------|-------|--------|--------|------|------|------|-----|-----|------|
| 321.15 | 322.15 | 2-4ea. | 21602 | 321.15 | 322.15 | 1.00 | TR-1 | .36 | n/a | n/a | .36 |
| 321.16 | 324.50 | Rock RQD 100%. | | | | | | | | | |
| 322.15 | 323.15 | 2-4ea. | 21603 | 322.15 | 323.15 | 1.00 | TR-1 | .36 | n/a | n/a | .36 |
| 323.15 | 324.50 | 2-4ea. | 21604 | 323.15 | 324.50 | 1.35 | 1-2 | 1.20 | n/a | n/a | 1.20 |

324.50 327.15 GARNET - BIOTITE SCHIST

4f.
90 to 95% f beds 2 to 5 mm, 10 to 15% garnets to 1 mm.
5 to 10% chert and chert grunerite beds interbedded with f
beds.
Well preserved bedding at 66 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|---------------|-------|--------|--------|------|----|-----|-----|-----|-----|
| 324.50 | 327.15 | Rock RQD 90%. | | | | | | | | | |
| 324.50 | 326.00 | 4f. | 21605 | 324.50 | 326.00 | 1.50 | TR | .03 | n/a | n/a | .03 |
| 326.00 | 327.15 | 4f. | 21606 | 326.00 | 327.15 | 1.15 | TR | .05 | n/a | .05 | .05 |

327.15 331.90 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE

I.F.
4eab.
Generally a poorly to moderately developed ea assemblage.
25 to 30% ea beds, ea beds are well developed at top of
the unit becoming progressively less well formed toward
bottom of unit.
10 to 15% f beds to 1 cm throughout unit but concentrated
between 330.2 to 331.0.
30 to 35% chert beds 5 mm to 1.5 cm increasing in width
and frequency toward bottom of unit.
10 to 15% magnetite as mottled remnants of gruneritized
beds at top of unit to lam and beds in chert at bottom of
unit.
5 to 10% green amphibole rich remnants of e beds
throughout unit.
Less than 1% carbonate as veinlets parallel to bedding.
Moderately preserved bedding at 43 to 52 degrees to the
core axis.
Poorly developed fracture cleavage at 36 degrees to the
core axis.
Right limb folding axial plane 37 to 43 degrees to the
core axis.
327.15 328.65 4eab.

| | | | | | | | | | | | |
|--------|--------|-------|-------|--------|--------|------|----|-----|-----|-----|-----|
| 327.15 | 328.65 | 4eab. | 21607 | 327.15 | 328.65 | 1.50 | TR | .09 | n/a | n/a | .09 |
|--------|--------|-------|-------|--------|--------|------|----|-----|-----|-----|-----|

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

10 to 15% f beds to 1 cm concentrated at top of unit decreasing toward bottom.

5 to 8% magnetite as laminae in chert and disseminated in grunerite beds decreases toward middle of unit.

5 to 10% amphibole rich remnants of e beds, as whisps in quartz and beds in last meter of unit.

3 to 5% blue quartz in restricted zones to 20 cm with pyrrhotite associated.

Well preserved bedding at 31 degrees to the core axis.

Poorly developed fracture cleavage at 53 degrees to the core axis.

401.60 402.50 4ea. 21639 401.60 402.50 .90 TR .03 n/a n/a .03

401.61 405.15 Rock RQD 100%.

402.50 403.60 4ea. 21640 402.50 403.60 1.10 TR .03 n/a n/a .03

403.60 404.60 4ea quartz pyrrhotite. 21641 403.60 404.60 1.00 3-5 2.16 n/a n/a 2.16

404.60 405.15 4ea. 21642 404.60 405.15 .55 TR 1.50 n/a 1.01 1.20

405.15 411.00 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bf.

As described 382.15 to 401.6.

Well preserved bedding at 35 to 43 degrees to the core axis

Well developed fracture cleavage at 53 degrees to the core axis.

Left limb folding, axial plane 42 to 44 degrees to the core axis.

405.16 411.00 Rock RQD 100%.

407.00 407.50 Quartz pyrrhotite vein 3 cm at 407.25. 21643 407.00 407.50 .50 3-5 .20 n/a n/a .20

411.00 421.60 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE I.F.

4be.

40 to 45% b beds to 1 cm, laminated magnetite in cherty matrix.

30 to 35% e beds light green amphibole rich, 5 to 10% garnets 1 to 2 mm.

10 to 15% f beds less than 1 cm locally a mixture of biotite and amphibole.

3 to 5% grunerite alteration of magnetite and e beds.

3 to 5% quartz veins generally parallel to bedding 2 to 5 cm.

Well preserved bedding at 32 to 38 degrees to the core axis

Left limb folding at bottom of unit axial plane 42 degrees to the core axis.

411.01 421.60 Rock RQD 100%. 21644 415.60 416.60 1.00 TR-1 1.32 n/a n/a 1.32

415.60 416.60 4be quartz pyrrhotite. 21645 418.60 419.60 1.00 TR-1 .71 n/a n/a .71

418.60 419.60 4be quartz pyrrhotite. 21646 419.60 420.60 1.00 TR-1 1.76 n/a n/a 1.76

419.60 420.60 4be quartz pyrrhotite. 21647 420.60 421.60 1.00 TR-1 1.32 n/a n/a 1.32

420.60 421.60 4be quartz pyrrhotite.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERM | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|------|--------|---------|
| 421.60 | 441.00 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. 35 to 40% ea beds 1 to 3 cm moderately grunerite, 15 to 20% subhedral to amorphous garnets to 5 mm. 15 to 20% green amphibole rich e beds as remnants in quartz and gruneritized beds with 3 to 5% garnets to 5 mm. 15 to 20% chert beds to 1.5 cm with magnetite laminae. 3 to 5% magnetite as laminae in chert beds and remnants in grunerite beds. 5 to 10% f beds to 1 cm randomly throughout unit. 10 to 15% blue quartz flooding this unit with no distinct vein boundaries pyrrhotite associated with quartz and ea beds. Poorly to moderately preserved bedding at 35 to 40 degrees to the core axis 437.0 where bedding becomes well preserved and ea beds become poorly developed. Few left limb folds axial plane 35 to 43 degrees to the core axis. | | | | | | | | | |
| 421.60 | 422.60 | 4ea. | 21640 | 421.60 | 422.60 | 1.00 | 2-3 | 4.76 | n/a | n/a | 4.76 |
| 421.61 | 441.00 | Rock RQD 100%. | | | | | | | | | |
| 422.60 | 423.60 | 4ea. | 21640 | 422.60 | 423.60 | 1.00 | 5-8 | 4.41 | 4.43 | n/a | 4.42 |
| 423.60 | 424.60 | 4ea. | 21650 | 423.60 | 424.60 | 1.00 | TR-1 | .80 | n/a | n/a | .80 |
| 424.60 | 425.85 | 4ea moderately silicified. | 21651 | 424.60 | 425.85 | 1.25 | 10-15 | 9.07 | 0.88 | n/a | 9.42 |
| 425.85 | 426.85 | 4ea. | 21652 | 425.85 | 426.85 | 1.00 | TR | .12 | n/a | n/a | .12 |
| 426.85 | 427.80 | 4ea. | 21653 | 426.85 | 427.80 | .95 | TR | .43 | n/a | .38 | .40 |
| 427.80 | 428.80 | 4ea. | 21654 | 427.80 | 428.80 | 1.00 | TR | .27 | n/a | n/a | .27 |
| 428.80 | 429.80 | 4ea moderately silicified. | 21655 | 428.80 | 429.80 | 1.00 | 3-5 | 5.89 | n/a | n/a | 5.89 |
| 429.80 | 430.80 | 4ea. | 21656 | 429.80 | 430.80 | 1.00 | 2-3 | .77 | n/a | .88 | .82 |
| 430.80 | 431.80 | 4ea. | 21657 | 430.80 | 431.80 | 1.00 | 2-3 | 6.51 | n/a | n/a | 6.51 |
| 431.80 | 432.80 | 4ea. | 21658 | 431.80 | 432.80 | 1.00 | TR | 5.35 | n/a | n/a | 5.35 |
| 432.80 | 433.80 | 4ea. | 21659 | 432.80 | 433.80 | 1.00 | TR-1 | 1.03 | n/a | n/a | 1.03 |
| 433.80 | 435.00 | 4ea moderately silicified. | 21660 | 433.80 | 435.00 | 1.20 | 5-8 | 5.00 | 5.23 | n/a | 5.16 |
| 435.00 | 436.50 | 4ea. | 21661 | 435.00 | 436.50 | 1.50 | TR-1 | 2.81 | n/a | n/a | 2.61 |
| 436.50 | 438.00 | 4ea. | 21662 | 436.50 | 438.00 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 438.00 | 439.50 | 4ea. | 21663 | 438.00 | 439.50 | 1.50 | TR | .82 | n/a | n/a | .82 |
| 439.50 | 441.00 | 4ea. | 21664 | 439.50 | 441.00 | 1.50 | TR | .40 | n/a | n/a | .40 |

441.00 452.95 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE
I.F.
4ea.
35 to 40% b beds to 1 cm containing 10 to 15% magnetite as laminae.
25 to 30% e beds. 15 to 20% are heavily gruneritized and locally form ea beds. Generally e beds are dark green amphibole rich beds with 5% 3 euhedral garnets, beds to 1.5 cm.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

15 to 20% f beds 2 mm to 1.5 cm locally chloritized, generally with 5 to 10% euhedral garnets to 2 mm.

5 to 10% bedded magnetite, beds to 5 mm with 3% grunerite alteration.

1 to 2% quartz veins to 5 cm with trace pyrrhotite associated.

Well preserved bedding at 35 to 50 degrees to the core axis

Well developed fracture cleavage at 50 to 61 degrees to the core axis.

Left limb folding, axial plane 31 to 55 degrees to the core axis.

441.01 452.95 Rock RQD 100%.

443.00 444.50 4bea char smpl.

447.50 449.00 4bea char smpl.

449.00 450.00 4bea.

450.00 451.00 4bea.

451.00 452.00 Moderately silicified 4bea.

452.00 452.95 4bea.

| | | | | | | | | |
|-------|--------|--------|------|-----|------|-----|-----|------|
| 21065 | 443.00 | 444.50 | 1.50 | TR | .41 | n/a | n/a | .41 |
| 21666 | 447.50 | 449.00 | 1.50 | TR | 5.69 | n/a | n/a | 5.69 |
| 25971 | 449.00 | 450.00 | 1.00 | TR | .69 | n/a | n/a | .69 |
| 25972 | 450.00 | 451.00 | 1.00 | TR | .55 | n/a | n/a | .55 |
| 21667 | 451.00 | 452.00 | 1.00 | S-0 | 7.75 | n/a | n/a | 7.75 |
| 21660 | 452.00 | 452.95 | .95 | TR | .02 | n/a | n/a | .02 |

452.95 456.20 GARNET - BIOTITE SCHIST

4f.

85 to 90% f beds from 2 to 10 mm containing 15 to 20% garnets to 2 mm.

5 to 8% chert beds to 5 mm magnetite poor, becoming more prevalent toward lower contact.

2 to 3% heavily gruneritized e beds with euhedral garnets becoming more prevalent toward lower contact.

Lower contact is gradational over 1 meter with 4ea unit below.

Well preserved bedding at 38 to 44 degrees to the core axis

452.95 454.45 4f.

452.96 456.20 Rock RQD 99%.

454.45 455.45 4f.

455.45 456.20 4f.

| | | | | | | | | |
|-------|--------|--------|------|----|-----|-----|-----|-----|
| 21660 | 452.95 | 454.45 | 1.50 | TR | .09 | n/a | n/a | .09 |
| 21670 | 454.45 | 455.45 | 1.00 | TR | .69 | n/a | n/a | .69 |
| 21671 | 455.45 | 456.20 | .75 | TR | .09 | n/a | n/a | .09 |

456.20 462.40 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

4eaf.

Intensely silicified unit 40 to 45% glassy blue quartz with pyrrhotite stringers.

25 to 30 well developed ea beds amorphous garnets to 1 cm in grunerite matrix.

10 to 15% dark green amphibole rich e beds as thread and whisps in quartz and as remnants in ea beds.

10 to 15% f beds to 2 cm 5 to 8% euhedral garnets to 3 mm.

F beds concentrated in lower 3 meters of unit.

Well preserved bedding at 40 to 60 degrees to the core axis

456.2 to 459.0 RQD very poor, core breaking along

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | chloritized fractures. | | | | | | | | | |
| 456.20 | 457.20 | 4ea silicified. | 21672 | 456.20 | 457.20 | 1.00 | 10-15 | 2.10 | 2.12 | n/a | 2.15 |
| 456.21 | 459.00 | rock RQD 10%. | | | | | | | | | |
| 457.20 | 458.20 | 4ea silicified. | 21673 | 457.20 | 458.20 | 1.00 | 5-8 | .70 | 1.43 | n/a | 1.11 |
| 458.20 | 459.20 | 4ea. | 21674 | 458.20 | 459.20 | 1.00 | TR-1 | .41 | n/a | n/a | .41 |
| 459.01 | 462.40 | Rock RQD 90%. | | | | | | | | | |
| 459.20 | 460.20 | 4ea silicified. | 21675 | 459.20 | 460.20 | 1.00 | 2-3 | 1.10 | n/a | n/a | 1.10 |
| 460.20 | 461.20 | 4ea. | 21676 | 460.20 | 461.20 | 1.00 | TR-1 | 1.50 | n/a | n/a | 1.50 |
| 461.20 | 462.40 | 4ea silicified. | 21677 | 461.20 | 462.40 | 1.20 | 1-2 | 1.44 | n/a | n/a | 1.44 |
| 462.40 | 470.00 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. 55 to 60% f beds variable in width 5 mm to 2 cm decreasing in width down hole. F beds are mildly chloritized and contain 10;15% garnets to 1 mm. 25 to 30% magnetite as laminated beds to 1 cm increasing concentration down hole. 5 to 8% magnetite poor chert beds throughout. 5 to 10% e beds green amphibole rich. Well preserved bedding at 45 to 60 degrees to the core axis Well developed fracture cleavage at 40 to 50 degrees to the core axis. Left limb folds to 464.0 axial plane 53 degrees to the core axis. 464.0 to 465.0 m style folding. 465.0 to 470.0 right limb folding axial plane 38 to 40. Major synformal closure between 464.0 to 465.0. | | | | | | | | | |
| 462.40 | 463.90 | 4fb char smpl. | 21678 | 462.40 | 463.90 | 1.50 | TR | .34 | n/a | n/a | .34 |
| 462.41 | 470.00 | Rock RQD 100%. | | | | | | | | | |
| 465.50 | 467.00 | 4fb char smpl. | 21679 | 465.50 | 467.00 | 1.50 | TR | .55 | n/a | n/a | .55 |

470.00 470.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: J057.4 5901.8 SURVEYED: YES

PLACER DOME INC.

LOCATION: 32400N 2145W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5585
PROPERTY: MUSSELWHITE GRUBSTAKE (1073)
NORTHWESTERN ONTARIO
SECTION:

POST LOCATION:

AZIMUTH: 49.0

LENGTH: 257.0

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN

DIP: -53.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 19 - 26, 1988

STARTED: FEBRUARY 18, 1988

COMPLETED: FEBRUARY 25, 1988

CLAIM NO:

PURPOSE: TEST 5150 M EL ESKEZ ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -51.0 | 150.00 | | -45.0 |
| 60.00 | | -49.0 | 180.00 | | -43.0 |
| 90.00 | | -47.0 | 210.00 | | -40.0 |
| 120.00 | | -47.0 | 240.00 | | -30.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

.00 20.20 OVERBURDEN

20.20 46.50 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

Fine to medium grained, grey to grey brown.

5 to 10% felsic phenocryst less than 0.5 mm.

20 to 25% fine grained biotite and or phlogopite homogeneously throughout.

This section of the felsic package maybe fall closer to an intermediate composition than felsic, but definitely has felsic characteristics.

Well developed foliation at 60 to 67 degrees to the core axis.

1 to 5% quartz and carbonate veins parallel to foliation.

20.20 32.00 Rock RQD 20%.

32.01 46.50 Rock RQD 85%.

46.50 68.80 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

Blue grey fine grained felsic to intermediate volcanic.

Similar to 20.2 to 46.5, with biotite phlogopite tending to be concentrated in bands from 2 mm to 2 cm.

Locally in phlogopite rich bands garnets to 2 mm are developed. less than 1%.

Well developed foliation at 52 to 66 degrees to the core axis.

1 to 2% carbonate veinlets parallel to foliation.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--|--------|---------------------------------------|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| <p>5 to 10% f beds, generally distributed evenly throughout unit. 1 to 2% carbonate veinlets especially in areas of quartz flooding. 155.15 to 163.0 well preserved bedding at 69 to 82 degrees to the core axis with left limb folding axial plane 60 to 75 degrees to the core axis. 163.0 to 167.0 well preserved bedding at 47 to 60 degrees to the core axis with right limb folding, axial plane 78 to 85 degrees to the core axis. From 167.0 to 176.0 left limb and right limb folding, predominantly right limb, axial plane 63 to 73 degrees to the core axis however there is m style folding present. CORE LOST 169.5 to 170.15 fault zone minor carbonate veins.</p> | | | | | | | | | | | |
| 155.15 | 156.15 | 4ea. | 21695 | 155.15 | 156.15 | 1.00 | TR | .20 | n/a | n/a | .20 |
| 155.16 176.00 Rock RQD 100%. | | | | | | | | | | | |
| 156.15 | 157.15 | 4ea. | 21696 | 156.15 | 157.15 | 1.00 | TR | 2.10 | n/a | n/a | 2.10 |
| 157.15 | 158.15 | 4ea moderately silicified. | 21697 | 157.15 | 158.15 | 1.00 | 3-5 | 4.94 | 4.95 | n/a | 4.94 |
| 158.15 | 159.15 | 4ea intensely silicified. | 21698 | 158.15 | 159.15 | 1.00 | 5-10 | 10.71 | 13.75 | n/a | 12.23 |
| 159.15 | 160.15 | 4ea intensely silicified. | 21699 | 159.15 | 160.15 | 1.00 | 10-15 | 7.07 | 7.04 | n/a | 7.45 |
| 160.15 | 161.15 | 4ea intensely silicified. | 21700 | 160.15 | 161.15 | 1.00 | 0-12 | 14.53 | 13.24 | n/a | 13.89 |
| 161.15 | 162.15 | 4ea weakly silicified. | 21701 | 161.15 | 162.15 | 1.00 | 1-2 | .07 | n/a | n/a | .07 |
| 162.15 | 163.15 | 4ea. | 21702 | 162.15 | 163.15 | 1.00 | TR-1 | .07 | n/a | n/a | .07 |
| 163.15 | 164.15 | 4ea. | 21703 | 163.15 | 164.15 | 1.00 | TR-1 | .11 | n/a | n/a | .11 |
| 164.15 | 165.15 | 4ea. | 21704 | 164.15 | 165.15 | 1.00 | TR | .00 | n/a | n/a | .00 |
| 165.15 | 166.15 | 4ea. | 21705 | 165.15 | 166.15 | 1.00 | TR | .07 | n/a | n/a | .07 |
| 166.15 | 167.15 | 4ea weakly silicified. | 21706 | 166.15 | 167.15 | 1.00 | TR-1 | .21 | n/a | .43 | .32 |
| 167.15 | 168.15 | 4ea. | 21707 | 167.15 | 168.15 | 1.00 | TR | .21 | n/a | n/a | .21 |
| 168.15 | 169.15 | 4ea. | 21708 | 168.15 | 169.15 | 1.00 | TR | .04 | n/a | n/a | .04 |
| 169.15 | 170.15 | 4ea CORE LOST. | 21709 | 169.15 | 170.15 | 1.00 | TR | .16 | n/a | n/a | .16 |
| 170.15 | 171.15 | 4ea moderately silicified, CORE LOST. | 21710 | 170.15 | 171.15 | 1.00 | TR | .60 | n/a | n/a | .60 |
| 171.15 | 172.15 | 4ea intensely silicified. | 21711 | 171.15 | 172.15 | 1.00 | TR-1 | 1.56 | n/a | n/a | 1.56 |
| 172.15 | 173.15 | 4ea moderately silicified. | 21712 | 172.15 | 173.15 | 1.00 | TR | .26 | n/a | n/a | .26 |
| 173.15 | 174.15 | 4ea weakly silicified. | 21713 | 173.15 | 174.15 | 1.00 | TR | .10 | n/a | n/a | .10 |
| 174.15 | 175.15 | 4ea. | 21714 | 174.15 | 175.15 | 1.00 | TR | .09 | n/a | n/a | .09 |
| 175.15 | 176.00 | 4ea. | 21715 | 175.15 | 176.00 | .85 | TR | .56 | n/a | .68 | .61 |

176.00 190.65 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

4ea.
 Similar to 155.15 to 176.0 seems to be part of the above unit with heavily gruneritized ea beds and poorly developed garnet clusters.
 Magnetite content has increased to 10;15% as laminae in chert beds and mottled remnants in gruneritized beds.
 Quartz veining or flooding is absent except between 188.0 and 190.65.
 Folding is complex and changes from left to right limb within short distances.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

176.0 to 179.0 right limb folding, axial plane 56 to 70 degrees to the core axis.

179.0 to 180.9 left limb folding, axial plane 55 to 67 degrees to the core axis.

180.9 to 184.5 right limb folding, axial plane 50 to 62 degrees to the core axis.

184.5 to 189.5 left limb folding, axial plane 66 to 71 degrees to the core axis.

189.5 to 190.5 right limb folding, axial plane 70 to 75 degrees to the core axis.

Bedding moderately to well preserved at 57 to 69 degrees to the core axis.

176.00 177.50 ksa char smpl.

21716 176.00 177.50 1.50 TR .02 n/a n/a .02

176.01 190.65 Rock RQD 90%.

179.00 180.50 ksa char smpl.

21717 179.00 180.50 1.50 TR .02 n/a n/a .02

182.00 183.50 ksa char smpl.

21718 182.00 183.50 1.50 TR .06 n/a n/a .06

185.00 186.50 ksa char smpl.

21719 185.00 186.50 1.50 TR .00 n/a n/a .00

188.00 189.00 ksa.

21720 188.00 189.00 1.00 TR 3.81 n/a n/a 3.81

189.00 190.00 ksa intensely silicified.

21721 189.00 190.00 1.00 3-5 13.48 n/a 11.50 12.48

190.00 190.65 ksa.

21722 190.00 190.65 .65 TR .31 n/a n/a .31

190.65 208.40 GARNET - BIOTITE SCHIST

4f.

75 to 80% well laminae f beds. Beds from 10 cm to 2 meters. 15 to 20% garnets to 2 mm.

5 to 10% heavily gruneritized ea beds with garnets to 1 mm.

3 to 5% green, amphibole rich e beds with 1 to 2% garnets to 2 mm.

3 to 5% chert beds 1 to 2 cm.

Ea, e and chert beds are grouped together into bands from 10 to 75 cm.

Well preserved bedding at 50 to 65 degrees to the core axis

199.0 left limb folding axial plane 48 degrees to the core axis.

204.5 Right limb folding axial plane 55 degrees to the core axis.

Locally 20 to 30 cm sections of blocky core.

190.66 208.40 Rock RQD 90%.

191.00 192.50 4f, ksa.

21723 191.00 192.50 1.50 TR .00 n/a n/a .00

198.50 200.00 4f.

21724 198.50 200.00 1.50 TR .05 n/a .03 .04

203.00 204.50 4f.

21725 203.00 204.50 1.50 TR .03 n/a n/a .03

208.40 213.20 GARNET-AMPHIBOLE I.F. / GARNET-BIOTITE SCHIST

4fe.

208.4 to 209.3 ksa 45 to 50% b beds with 15 to 20% magnetite as laminae. Beds 2 to 8 mm.

35 to 40% dark green amphibole rich beds with 5 to 10%

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

fragments and stringers.

Grunerite alteration becomes more intense toward bottom of unit.

Poorly preserved bedding at 50 to 65 degrees to the core axis.

244.05 245.05 ka.

| | | | | | | | | |
|-------|--------|--------|------|-----|-----|-----|-----|-----|
| 21744 | 244.05 | 245.05 | 1.00 | 1-2 | .02 | n/a | n/a | .02 |
|-------|--------|--------|------|-----|-----|-----|-----|-----|

244.06 246.25 Rock RQD 100%.

245.05 246.25 ka.

| | | | | | | | | |
|-------|--------|--------|------|-------|-----|-----|-----|-----|
| 21745 | 245.05 | 246.25 | 1.20 | 10-15 | .21 | n/a | n/a | .21 |
|-------|--------|--------|------|-------|-----|-----|-----|-----|

246.25 257.00 BASALT

2.

Fine grained light to medium green.

Chlorite developed as threads and wisps parallel to foliation.

3 to 5% carbonate veinlets parallel to foliation.

Well developed foliation at 41 to 60 degrees to the core axis.

246.26 257.00 Rock RQD 75%.

257.00 257.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| | | Well bedded at 32 to 45 degrees to the core axis. 15 to 20% white quartz, as 1 to 3 cm veins sub parallel to bedding, but also as vein rich zones associated with mild bedding disruption. Trace pyrrhotite as very rare blebs less than or equal to 2 mm in quartz. 47.35 50.50 Rock RQD 80%. | | | | | | | | | |
| | | 47.35 48.85 2-4e, quartz veins. | 20316 | 47.35 | 48.85 | 1.50 | TR | .10 | n/a | n/a | .10 |
| | | 48.85 49.85 2-4e, quartz veins. | 20317 | 48.85 | 49.85 | 1.00 | TR | .10 | n/a | n/a | .10 |
| | | 49.85 50.50 2-4e, quartz veins. | 20318 | 49.85 | 50.50 | .65 | TR | .01 | n/a | .05 | .03 |
| 50.50 | 59.10 | INTRAFORMATIONAL IRON FORMATION 2-4f. Similar to 41.05. Well bedded and foliated at 29 to 41 degrees to the core axis, although locally to 51 degrees to the core axis at 59.5. 'ea' beds very rare, less than or equal to 10 cm bands, locally developed as in samples. Occasional broad, open folds throughout unit with axial plane 47 to 61 degrees to the core axis. 53.4 Right limb fold. 55.5 Left limb fold. 56.6 Right limb fold, but tight. 50.50 59.10 Rock RQD 85 to 90%. 57.50 59.10 Right limb folds. 57.50 58.50 2-4fe. | | | | | | | | | |
| | | | 20319 | 57.50 | 58.50 | 1.00 | TR | .40 | n/a | n/a | .40 |
| 59.10 | 63.60 | METASEGMENT MS. Upper contact poorly defined, consisting of interbanded amphibole, grunerite and sediment layers. Amphibole bands locally garnetiferous. Quartzose metasediment containing 5 to 7% biotite, generally as thin laminae. 5 to 10% carbonate, as carbonate rich sections up to 30 cm, moderately coarse grained in these areas. Well bedded at 40 to 42 degrees to the core axis, decreasing downhole to 24 to 28 degrees to the core axis in lower 1.5 m of unit. Trace to 1% pyrrhotite as rare blebs and veinlets parallel to bedding. Rare right limb folds, axial plane 39 to 40 degrees to the core axis. 59.10 63.60 Rock RQD 85 to 90%. 59.10 60.60 MS, character sample. 60.60 62.10 MS, character sample. | | | | | | | | | |
| | | | 20320 | 59.10 | 60.60 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| | | | 20321 | 60.60 | 62.10 | 1.50 | TR | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | MS. Similar to 113.4 to 124.1. This unit tends to have more biotite developed within beds, also there are a few e beds developed within this unit. Well preserved bedding at 42 degrees to the core axis. Right limb folding axial plane 53 degrees to the core axis. 138.46 141.15 Rock RQD 100%. | | | | | | | | | |
| 141.15 | 161.00 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Medium to fine grained, green to green brown. 15 to 20% phlogopite developed throughout unit. 20 to 25 quartz-carbonate veining throughout unit, 1 mm to 3 cm parallel to foliation. Locally pyrrhotite associated with quartz-carbonate veins see sample description. Well developed foliation at 40 to 50 degrees to the core axis. 141.16 145.00 Rock RQD 75%. 145.00 149.00 10 to 50 cm sections of grey white alteration, soft with poor rqd. 145.01 149.00 Rock RQD 10%. 149.01 161.00 Rock RQD 90%. 157.90 158.00 B-3 quartz pyrrhotite. | 20325 | 157.00 | 158.00 | 1.00 | 1-2 | 3.11 | n/a | n/a | 3.11 |
| 161.00 | 167.95 | INTERMEDIATE TO MAFIC VOLCANICS B Volcanic. Medium to fine grained green mafic volcanic. 3 to 5% quartz-carbonate veins parallel to foliation. Well developed foliation at 40 to 50 degrees to the core axis increasing down hole. 161.01 167.95 Rock RQD 100%. | | | | | | | | | |
| 167.95 | 169.75 | INTRAFORMATIONAL IRON FORMATION 2-4fe. 55 to 60% f beds 1 to 2 cm, containing 15 to 20% garnets to 3 mm. 25 to 30% e beds locally gruneritized forming ea beds. 5 to 10% blue quartz as indistinct veins with associated pyrrhotite stringers. Well preserved bedding at 49 degrees to the core axis. 167.95 168.95 2-4fe silicified. 168.95 169.75 2-4fe silicified. | 20326 | 167.95 | 168.95 | 1.00 | 5-8 | .32 | n/a | n/a | .32 |
| | | | 20327 | 168.95 | 169.75 | .80 | 3-5 | .04 | n/a | n/a | .04 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

169.75 173.55 INTERMEDIATE TO MAFIC VOLCANICS
B Volcanic.
As described 161.0 to 169.95.
Well developed foliation at 50 to 58 degrees to the core axis.
169.75 173.55 Rock RQD 100%.

173.55 179.60 INTRAFORMATIONAL IRON FORMATION
2-4e.
40 to 45% green amphibole rich e beds, 5 to 8% garnets to 2 mm.
20 to 25% chert bed and or quartz veins.
10 to 15% grunerite alteration of magnetite and e beds.
5 to 10% well developed ea beds, amorphous garnets to 1 cm in grunerite matrix.
3 to 5% f beds concentrated between 175.8 to 176.7.
5 to 8% magnetite as laminae in chert and disseminated in e beds.
Well mineralization throughout. Pyrrhotite associated with quartz as stringers and disseminated flecks and blebs in e beds.
Poorly to moderately preserved bedding at 50 to 80 degrees to the core axis.
Well developed fracture cleavage at 37 to 62 degrees to the core axis.
Right limb folding axial plane 28 to 50 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|----------------|-------|--------|--------|------|------|-------|-----|-------|-------|
| 173.55 | 174.55 | 2-4e. | 20376 | 173.55 | 174.55 | 1.00 | TR-1 | .03 | n/a | n/a | .03 |
| 173.56 | 179.60 | Rock RQD 100%. | | | | | | | | | |
| 174.55 | 175.55 | 2-4ea. | 20377 | 174.55 | 175.55 | 1.00 | S-10 | 2.03 | n/a | n/a | 2.03 |
| 175.55 | 176.55 | 2-4fe. | 20378 | 175.55 | 176.55 | 1.00 | S-9 | 11.41 | n/a | 9.25 | 10.33 |
| 176.55 | 177.55 | 2-4e. | 20379 | 176.55 | 177.55 | 1.00 | S-12 | 17.93 | n/a | 10.40 | 14.17 |
| 177.55 | 178.55 | 2-4e. | 20380 | 177.55 | 178.55 | 1.00 | TR-1 | .21 | n/a | n/a | .21 |
| 178.55 | 179.60 | 2-4e. | 20381 | 178.55 | 179.60 | 1.05 | TR | .07 | n/a | n/a | .07 |

179.60 183.90 POTASSIC BASALT
3.
Fine grained, brown to green with well developed foliation at 46 to 60 degrees to the core axis.
15 to 20% carbonate and quartz veins to 5 mm.
3 to 5% angular to subrounded laminated chert fragments.
179.61 183.90 Rock RQD 100%.

183.90 189.70 INTERMEDIATE TO MAFIC VOLCANICS
B Volcanic.
Fine to medium grained, green typical mafic volcanic.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

5 to 10% quartz-carbonate veining generally 2 to 7 mm locally to 3 cm.
Phlogopite developed locally over 25 to 50 cm sections.
Well developed foliation at 40 to 50 degrees to the core axis.
183.90 199.70 Rock RQD 100%.

199.70 206.85 GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.
4fea.
50 to 60% 2.0 mm to 10.0 cm f beds containing 1 to 2 mm subhedral garnets supported by fine grained biotite. Biotite commonly replaced by chlorite from 203.0 to 206.85
F beds decrease in width and abundance to lower contact.
F beds interbedded with 25% intensely gruneritized garnet hornblende (ea) beds.
Ea beds poorly developed with sparse mm sized garnets.
25% chert beds with mm magnetite laminae commonly overprinted by faint grunerite.
Bedding variable from 30 to 48 degrees to the core axis.
Fracture cleavage generally less than bedding at 20 to 42 degrees to the core axis.
Fracture cleavage best displayed in closed left limb minor folds.
199.70 206.85 Rock RQD 90%.
199.70 201.20 4fea, (N.B. Sample No. OK R.S.).
201.20 202.70 4fea fine grained pyrrhotite stringers at 201.5 medium.
202.70 204.20 4fea.
204.20 205.70 4fea.
205.70 206.85 4fea.

| | | | | | | | | |
|-------|--------|--------|------|------|------|-----|------|------|
| 20328 | 199.70 | 201.20 | 1.50 | TR | .11 | n/a | n/a | .11 |
| 20329 | 201.20 | 202.70 | 1.50 | 1-2 | .30 | n/a | n/a | .30 |
| 20330 | 202.70 | 204.20 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20331 | 204.20 | 205.70 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20332 | 205.70 | 206.85 | 1.15 | TR-1 | 4.00 | n/a | 2.83 | 3.41 |

206.85 213.85 GARNET-AMPHIBOLE-CHERT-GRUNERITE IFON FORMATION

4ea.
Poorly developed 4ea composed of 40 to 50% gruneritized garnet hornblende beds. Subhedral garnets up to 0.5 cm and rarely form amorphous clusters.
20% chloritic garnet biotite beds decrease to 10% from 212.0 to lower contact.
25 to 30% regularly spaced chert magnetite beds typically <1.0 cm wide.
3 to 5% medium to coarse grained carbonate veins.
Bedding 48 to 70 degrees to the core axis.
Fracture cleavage well developed at 30 to 40 degrees to the core axis.
Second fracture cleavage at 70 degrees to the core axis healed by iron stained carbonate veinlets.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Pa. Av g/t RERUN REJECT AVERAGE

| | | | | | | | | | | | |
|--------|--------|--|-------|--------|--------|------|------|-----|-----|-----|-----|
| 206.85 | 213.85 | Rock RQD 80%. | | | | | | | | | |
| 206.85 | 208.35 | 4ea. | 20333 | 206.85 | 208.35 | 1.50 | TR-1 | .32 | n/a | n/a | .32 |
| 208.35 | 209.85 | 4ea rare fine grained pyrrhotite stringer. | 20334 | 208.35 | 209.85 | 1.50 | 1 | .40 | n/a | n/a | .40 |
| 209.85 | 213.85 | 4e(a) as in text but with faint grunerite alteration overprinting poorly developed 'e' beds. | | | | | | | | | |
| 209.85 | 211.35 | 4e(a). | 20335 | 209.85 | 211.35 | 1.50 | TR | .18 | n/a | n/a | .18 |
| 211.35 | 212.85 | 4e(a). | 20336 | 211.35 | 212.85 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 212.85 | 213.85 | 4e(a). | 20337 | 212.85 | 213.85 | 1.00 | TR | .01 | n/a | n/a | .01 |

213.85 230.15 GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F.

4fb.
Well bedded iron formation composed of 60% garnet biotite beds containing 10 to locally 25% mm sized subhedral garnets supported by fine grained biotite rich matrix. Interbedded with 30% laminated chert magnetite beds locally rimmed by faint mm grunerite seams. Up to 10% weakly gruneritized garnet hornblende beds occur throughout from 221.0 to lower contact. Bedding decreases from 55 degrees to the core axis near upper contact to 30 to 40 degrees to the core axis from 218.0 to 230.15. Minor folding common throughout. Closed left limb folds to 218.0. Pervasive M-style folds through to 221.0 followed by open right limb folds to lower contact. Axial plane constant at 40 to 55 degrees to the core axis. Trace to nil sulphide throughout.

| | | | | | | | | | | | |
|--------|--------|--|-------|--------|--------|------|---|-----|-----|-----|-----|
| 213.85 | 230.15 | Rock RQD 85%. | | | | | | | | | |
| 213.85 | 215.35 | 4fb. | 20338 | 213.85 | 215.35 | 1.50 | 0 | .03 | n/a | n/a | .03 |
| 217.15 | 218.65 | 4b. | 20339 | 217.15 | 218.65 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 217.50 | 221.00 | 4b 75% laminated chert magnetite with 25% garnet biotite beds. Nil sulphide. | | | | | | | | | |
| 219.50 | 221.00 | 4b. | 20340 | 219.50 | 221.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 221.00 | 222.50 | 4fb. | 20341 | 221.00 | 222.50 | 1.50 | 0 | .02 | n/a | n/a | .02 |
| 224.00 | 225.50 | 4fb. | 20342 | 224.00 | 225.50 | 1.50 | 0 | .03 | n/a | n/a | .03 |
| 227.15 | 228.65 | 4fb. | 20343 | 227.15 | 228.65 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 228.65 | 230.15 | 4fb. | 20344 | 228.65 | 230.15 | 1.50 | 0 | .01 | n/a | n/a | .01 |

230.15 233.90 GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.
4fea.
40 to 50% cm sized garnet biotite beds interbedded with 25 to 30% poorly developed garnet hornblende grunerite 'ea' beds.
20% Chert magnetite beds throughout.
Bedding at 30 to 45 degrees to the core axis.
230.15 233.90 Rock RQD 95%.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERM | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|------|--------|---------|
| 307.00 | 319.10 | B up to 5% quartz carbonate veinlets parallel to foliation. Foliation at 34 to 30 degrees to the core axis. | | | | | | | | | |
| 319.10 | 320.00 | Contact zone. 10% garnets associated with phlogopite rich seams interbanded with 40% hornblende rich mafic and 30% carbonate veins up to 25 cm. Foliation at 40 degrees to the core axis. | | | | | | | | | |
| 320.00 | 325.40 | GARNET - BIOTITE SCHIST | | | | | | | | | |
| | | 4f. | | | | | | | | | |
| | | 65 to 70% f beds with 40% mm sized subhedral garnets supported by biotite and/or phlogopite. | | | | | | | | | |
| | | F beds range in size from 2.0mm to 2.0cm. | | | | | | | | | |
| | | Interbedded with 20% magnetite poor chert beds typically up to 5 mm wide. | | | | | | | | | |
| | | Faint grunerite occurs as narrow seams along bedding plane contacts. | | | | | | | | | |
| | | 5 to 10% poorly developed ea beds scattered throughout associated with trace to 1% fine grained pyrrhotite. | | | | | | | | | |
| | | Bedding very well preserved at 40 to 42 degrees to the core axis. | | | | | | | | | |
| | | Foliation subparallel to bedding. | | | | | | | | | |
| | | 320.00 325.40 Rock RQD 95%. | | | | | | | | | |
| 320.00 | 321.50 | 4f. | 20351 | 320.00 | 321.50 | 1.50 | TR | .30 | n/a | n/a | .30 |
| 321.50 | 323.00 | 4f. | 20352 | 321.50 | 323.00 | 1.50 | TR-1 | 2.00 | n/a | n/a | 2.00 |
| 323.00 | 324.40 | 4f. | 20353 | 323.00 | 324.40 | 1.40 | TR-1 | .11 | n/a | n/a | .11 |
| 324.40 | 325.40 | 4f. | 20354 | 324.40 | 325.40 | 1.00 | TR | .03 | n/a | n/a | .03 |

325.40 328.40 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

4ea.

40 to 50% weakly gruneritized garnet hornblende (ea) beds. Subhedral garnets up to 0.5 cm diameter, rarely forming amorphous clusters.

Grunerite locally completely replaces silicate matrix, however most often forms narrow rims around garnets and along bedding plane contacts.

20% fine grained wispy hornblende beds typically garnet poor and locally replaced by chlorite.

15 to 20% chert beds with minor disseminated magnetite and more rarely fine grained magnetite laminae.

2 To locally 5% fine grained pyrrhotite occurs as stringers and blebs associated with garnets and as stringers in glassy blue quartz.

Bedding moderately well developed at 56 degrees to the core axis.

325.40 328.40 Rock RQD 80%.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | REGRM | REJECT | AVERAGE |
|--|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| Common open to closed left limb minor folds with axial plane at 40 to 45 degrees to the core axis. | | | | | | | | | | | |
| 337.25 | 357.50 | Rock RQD 100%. | | | | | | | | | |
| 337.25 | 338.25 | 4ea. | 20366 | 337.25 | 338.25 | 1.00 | TR-1 | .05 | n/a | n/a | .05 |
| 338.25 | 339.25 | 4ea 5 specks visible gold. | 20367 | 338.25 | 339.25 | 1.00 | S | 15.00 | 14.75 | n/a | 14.90 |
| 339.25 | 340.25 | 4ea. | 20368 | 339.25 | 340.25 | 1.00 | TR | .04 | n/a | n/a | .04 |
| 340.25 | 341.75 | 4ea. | 20369 | 340.25 | 341.75 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 341.75 | 343.25 | 4ea. | 20370 | 341.75 | 343.25 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 343.25 | 344.75 | 4ea. | 20371 | 343.25 | 344.75 | 1.50 | TR | .20 | n/a | n/a | .20 |
| 344.75 | 345.75 | 4ea. | 20372 | 344.75 | 345.75 | 1.00 | TR | .00 | n/a | n/a | .00 |
| 345.75 | 346.75 | 4ea 2 specks visible gold. | 20373 | 345.75 | 346.75 | 1.00 | 2-3 | 7.45 | 7.75 | n/a | 7.60 |
| 346.75 | 347.75 | 4ea. | 20374 | 346.75 | 347.75 | 1.00 | 1 | 3.07 | n/a | n/a | 3.07 |
| 347.00 | 351.00 | Zone of minor folding axial plane at 30 to 40 degrees to the core axis, bedding at 60 to 70 degrees to the core axis. | | | | | | | | | |
| 347.75 | 349.25 | 4ea. | 20375 | 347.75 | 349.25 | 1.50 | 0 | 0.07 | n/a | 5.31 | 6.00 |
| 349.25 | 350.75 | 4ea; NB: sample numbers OK, R.S.). | 20382 | 349.25 | 350.75 | 1.50 | 0 | .04 | n/a | n/a | .04 |
| 350.75 | 352.25 | 4ea. | 20383 | 350.75 | 352.25 | 1.50 | 0 | .36 | n/a | n/a | .36 |
| 352.25 | 353.75 | 4ea. | 20384 | 352.25 | 353.75 | 1.50 | 0 | .41 | n/a | n/a | .41 |
| 353.75 | 354.75 | 4ea. | 20385 | 353.75 | 354.75 | 1.00 | TR-1 | 2.69 | n/a | n/a | 2.69 |
| 354.75 | 355.75 | 4ea. | 20386 | 354.75 | 355.75 | 1.00 | 3-5 | 10.64 | n/a | 7.36 | 13.50 |
| 355.75 | 356.75 | 4ea. | 20387 | 355.75 | 356.75 | 1.00 | 2-3 | 6.03 | n/a | 7.48 | 7.15 |
| 356.75 | 357.50 | 4ea. | 20388 | 356.75 | 357.50 | .75 | TR | 5.20 | n/a | 4.55 | 4.92 |

357.50 364.00 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bf.

Very well bedded iron formation composed of 50 to 60% laminated chert magnetite beds with faint grunerite restricted to bedding planes.

Interbedded with 30 to 35% garnet biotite beds up to 0.5 cm wide.

F beds decrease in abundance toward centre of unit.

2 to 3% narrow carbonate veinlets occupy S2 fracture cleavage.

Common open left limb minor folds with axial plane at 30 to 45 degrees to the core axis.

Bedding consistent at 45 to 50 degrees to the core axis.

Trace sulphide associated with rare quartz veins.

357.50 364.00 Rock RQD 100%.

357.50 359.00 4bf.

362.50 364.00 4bf.

| | | | | | | | | |
|-------|--------|--------|------|--------|------|-----|-----|------|
| 20389 | 357.50 | 359.00 | 1.50 | 0 | .13 | n/a | n/a | .13 |
| 20390 | 362.50 | 364.00 | 1.50 | TR-0.5 | 1.05 | n/a | n/a | 1.05 |

364.00 371.45 GARNET - BIOTITE SCHIST

4f.

75% Garnet biotite beds with 40% 1 to 3 mm subhedral garnet supported by fine grained biotite rich matrix.

F beds vary from 0.5cm to 10cm in width.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t PERUN REJECT AVERAGE

Interbedded with 25% chert beds containing minor disseminated magnetite rarely forming fine grained laminae.

Trace to locally 5% grunerite commonly as narrow threads along bedding planes.

Up to 5% weakly gruneritized e beds occur toward gradational upper and lower contacts.

1 to 2% carbonate veinlets parallel to foliation.

Trace to nil pyrrhotite.

Bedding highly variable from 15 to 65 degrees to the core axis about pervasive open minor folds.

Bedding becomes more regular at 35 degrees to the core axis toward lower contact.

Individual beds display multiple mm scale, contorted fold closures.

Minor folds generally display left limb asymmetry with axial plane at 58 to 62 degrees to the core axis.

364.00 371.45 Rock RQD 100%.

364.00 365.50 4f.

367.00 368.50 4f.

369.95 371.45 4f.

| | | | | | | | | |
|-------|--------|--------|------|----|------|-----|-----|------|
| 20391 | 364.00 | 365.50 | 1.50 | TR | .00 | n/a | n/a | .00 |
| 20392 | 367.00 | 368.50 | 1.50 | TR | 2.75 | n/a | n/a | 2.75 |
| 20393 | 369.95 | 371.45 | 1.50 | TR | .47 | n/a | n/a | .47 |

371.45 382.50 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

4ea.

60% Well developed ea beds composed of 2mm to 1.0cm garnets commonly forming amorphous clusters, supported by an intensely gruneritized hornblende matrix.

Interbedded with 25% well preserved laminated chert magnetite beds. Magnetite laminae increase in size and abundance toward gradational lower contact.

Up to 10% f beds scattered throughout chlorite replacement of biotite not uncommon.

Lower contact poorly defined by gradual decrease in quantity of ea beds.

Silicified mineralization zone from 372.45 to 377.15 consisting of 5 to 7% pyrrhotite occurring as fine grained replacement cement concentrating in garnet strain shadows within ea beds.

Local bedding disruption due to silicification.

3 to 5% carbonate veinlets parallel to fracture cleavage up to 3 mm wide.

Bedding at 60 to 65 degrees to the core axis.

Fracture cleavage at 50 degrees to the core axis.

371.45 382.50 Rock RQD 95%.

371.45 372.50 4ea weakly silicified.

372.50 373.50 4ea moderately silicified.

373.50 374.50 4ea heavily silicified.

374.50 375.50 4ea weakly silicified.

| | | | | | | | | |
|-------|--------|--------|------|-----|-------|-------|------|-------|
| 20394 | 371.45 | 372.50 | 1.05 | 1 | 6.50 | n/a | 5.50 | 6.07 |
| 20395 | 372.50 | 373.50 | 1.00 | 5 | 13.01 | 13.44 | n/a | 13.23 |
| 20396 | 373.50 | 374.50 | 1.00 | 5-7 | 7.56 | 6.83 | n/a | 7.09 |
| 20397 | 374.50 | 375.50 | 1.00 | 3 | 1.02 | 1.20 | n/a | 1.55 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPc | Av g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 375.50 | 376.50 | 4ea weakly silicified, pyrrhotite occurs as local patches. | 20390 | 375.50 | 376.50 | 1.00 | 3 | .54 | .60 | n/a | .61 |
| 376.50 | 377.50 | 4ea heavily silicified. | 20399 | 376.50 | 377.50 | 1.00 | 5-7 | 5.93 | 7.64 | n/a | 6.78 |
| 377.50 | 382.50 | 4ea as described in text. Bedding at 50 to 60 degrees to the core axis. Moderately common open left limb minor folds with axial plane at 45 to 50 degrees to the core axis. | | | | | | | | | |
| 377.50 | 378.50 | 4ea. | 20400 | 377.50 | 378.50 | 1.00 | TR | 1.15 | n/a | n/a | 1.15 |
| 378.50 | 380.00 | 4ea. | 20401 | 378.50 | 380.00 | 1.50 | TR | .34 | n/a | n/a | .34 |
| 380.00 | 381.50 | 4ea. | 20402 | 380.00 | 381.50 | 1.50 | 1 | .90 | n/a | .00 | .00 |
| 381.50 | 382.50 | 4ea. | 20403 | 381.50 | 382.50 | 1.00 | TR | 0.77 | n/a | 0.05 | 0.41 |
| 382.50 | 392.90 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4fba. Moderately to locally poorly bedded iron formation composed of. 50 to 55% f beds. 10% Subhedral garnets, up to 3 mm supported by fine grained biotite. Biotite locally completely replaced by chlorite. Interbedded with 40 to 50% laminated chert magnetite beds. Magnetite occurs as very well developed discrete laminae to 0.5 cm magnetite rich beds. 10% Poorly developed ea beds occur near upper contact, becoming rare beyond 387.0. Grunerite alteration of magnetite moderately intense creating a mottled magnetite texture. Grunerite content decreases gradually toward lower contact. 'f' content decreases with corresponding increase in 'b' content toward lower contact. 15% Quartz veins scattered throughout veins vary in size to 5.0 cm, locally disrupting bedding trace. Bedding at 40 to 60 degrees to the core axis. Common open left limb minor folds, axial plane at 30 to 40 degrees to the core axis. Trace fine grained pyrrhotite associated with quartz. | | | | | | | | | |
| 382.50 | 392.90 | Rock RQD 95%. | | | | | | | | | |
| 382.50 | 384.00 | 4fba. | 20404 | 382.50 | 384.00 | 1.50 | TR | .45 | n/a | n/a | .45 |
| 384.00 | 384.00 | Fine grained homogenous hornblende rich mafic wedge. Foliation at 50 degrees to the core axis. | | | | | | | | | |
| 384.00 | 385.50 | 4fba; 20cm quartz vein 80cm mafic wedge. | 20405 | 384.00 | 385.50 | 1.50 | TR | .13 | n/a | n/a | .13 |
| 385.50 | 387.00 | 4fba. | 20406 | 385.50 | 387.00 | 1.50 | TR | .00 | n/a | n/a | .00 |
| 387.00 | 388.50 | 4fba 25% quartz pyrrhotite veins. | 20407 | 387.00 | 388.50 | 1.50 | 1 | .60 | n/a | n/a | .60 |
| 388.50 | 390.00 | 4fba. | 20408 | 388.50 | 390.00 | 1.50 | TR | 1.22 | n/a | n/a | 1.22 |
| 390.00 | 391.50 | 4fba 15% quartz pyrrhotite veins. | 20409 | 390.00 | 391.50 | 1.50 | TR-1 | .21 | n/a | n/a | .21 |
| 391.50 | 392.90 | 4fba 10% quartz pyrrhotite veins. | 20410 | 391.50 | 392.90 | 1.40 | TR-1 | .44 | n/a | n/a | .44 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUM REJECT AVERAGE

392.90 405.35 CHERT - MAGNETITE IRON FORMATION

4b.

Very well laminated to bedded iron formation composed of 75% laminated chert magnetite interbedded with 25% f beds. F beds up to 0.5 cm wide, typically garnet poor. Garnets up to 2 mm diameter.

Very faint grunerite restricted to bedding planes.

Up to 5% carbonate veinlets occupy S2 fracture cleavage.

Bedding variable: 40 degrees to the core axis near upper contact, 30 degrees to the core axis near lower contact.

Minor folding reveals a major axial plane. Open left limb and M-style folds occur; 399.5m followed by tight right limb folds to lower contact.

Axial plane cleavage at 40 to 45 degrees to the core axis.

Cleavage shallower than bedding with respect to core axis toward upper contact, becoming steeper toward lower contact.

392.90 405.35 Rock RQD 100%.

392.90 394.40 4b.

398.00 399.50 4b.

403.85 405.35 4b.

| | | | | | | | | |
|-------|--------|--------|------|---|-----|-----|-----|-----|
| 20411 | 392.90 | 394.40 | 1.50 | 0 | .04 | n/a | .04 | .04 |
| 20412 | 398.00 | 399.50 | 1.50 | 0 | .02 | n/a | n/a | .02 |
| 20413 | 403.85 | 405.35 | 1.50 | 0 | .03 | n/a | n/a | .03 |

405.35 425.10 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bfa.

Compositionally similar to 382.50 to 392.90.

10% Poorly developed 'ea' beds intermixed with f beds and scattered throughout.

Grunerite alteration of magnetite present in varying degrees of intensity, from narrow bedding plane seams to pervasive replacement creating a mottled magnetite texture. Overall unit is dry, with trace to nil pyrrhotite.

Up to 3% carbonate veinlets parallel to fracture cleavage.

Up to 3% generally dry quartz veins up to 10 cm wide.

Bedding generally 40 degrees to the core axis but varies from 15 to 70 degrees to the core axis about pervasive minor folding.

Minor folding changes asymmetry from M-style along 1.0m intervals to tight right limb folds.

M-style folding noted from 405.35 to 407.5; 413.0 to 414.5 and at 423.25.

Dominant left limb folds from 423.5 to 425.10.

Axial plane generally 45 to 55 degrees to the core axis.

CHARACTER SAMPLES ONLY.

405.35 425.10 Rock RQD 100%.

405.35 406.85 4bfa.

408.50 410.00 4bfa.

| | | | | | | | | |
|-------|--------|--------|------|----|-----|-----|-----|-----|
| 20414 | 405.35 | 406.85 | 1.50 | TR | .10 | n/a | n/a | .10 |
| 20415 | 408.50 | 410.00 | 1.50 | TR | .11 | n/a | n/a | .11 |

PLACER DONE INC.
DIAMOND DRILL RECORD

HOLE NO: M5568
PAGE NO: 18

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Av g/t | RERUN | REJECT | AVERAGE |
|--------|--------|-------------|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 411.50 | 413.00 | 4bfa. | 20416 | 411.50 | 413.00 | 1.50 | TR | .03 | n/a | n/a | .03 |
| 414.50 | 416.00 | 4bfa. | 20417 | 414.50 | 416.00 | 1.50 | TR | .03 | n/a | n/a | .03 |
| 417.50 | 419.00 | 4bfa. | 20418 | 417.50 | 419.00 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 420.50 | 422.00 | 4bfa. | 20419 | 420.50 | 422.00 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 423.50 | 425.00 | 4bfa. | 20420 | 423.50 | 425.00 | 1.50 | TR | .02 | n/a | .01 | .02 |

425.10 425.10 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CORD. 7480.3 6461.8 SURVEYED: YES

PLACER DONE INC.

LOCATION: 24+00M 2+00M GRID: EAST

DIAMOND DRILL RECORD

MOLE NO: M05567
PROPERTY: MUSSELWHITE GRUBSTAKE (1873)
NORTHWESTERN ONTARIO
SECTION:

POST LOCATION:

AZIMUTH: 49.2

LENGTH: 254.0

ELEVATION: 5302.5

LOGGED BY: R. STEWART

DIP: -58.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEB 24-29, 1988

STARTED: FEB 23, 1988

COMPLETED: FEB 28, 1988

CLAIM NO:

PURPOSE: TEST ESKER ZONE AT THE 5200m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -57.0 | 150.00 | | -53.5 |
| 60.00 | | -56.0 | 180.00 | | -51.0 |
| 90.00 | | -55.0 | 210.00 | | -51.0 |
| 120.00 | | -54.0 | 240.00 | | -50.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | AN | g/t | REGRUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|----|-----|--------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|----|-----|--------|--------|---------|

| | | | | | | | | | | | | |
|-----|-------|---|--|--|--|--|--|--|--|--|--|--|
| .00 | 13.60 | OVERBURDEN Boulders, sand and very few boulders. | | | | | | | | | | |
|-----|-------|---|--|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|
| 13.60 | 87.00 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|--|

A.
Typical fine grained, homogenous, light greyish blue, felsic.
Weakly compositionally banded assemblage of biotite and quartz feldspar.
Quartz feldspar often forms subrounded mm scale micro-phenocrysts displaying a strong preferred dimensional orientation.
5 to 10% carbonate quartz veins and veinlets parallel to foliation.
Veins occasionally contain mm tourmaline laths and are often rimmed by fine grained sericite or medium to coarse grained mica.
Foliation very well developed at 50-55 degrees to the core axis.
Core moderately blocky to 20.0 m.
Core breaks easily along foliation surfaces.
14.60 20.00 Rock RQD 60%.
18.00 19.40 Barren carbonate quartz vein with 10 cm A volcanic at 19.0.
20.00 35.00 Rock RQD 80%.
35.00 53.00 Rock RQD 75 to 80%.
35.00 53.00 A as in text. Well developed foliation at 55 to 58 degrees to the core axis.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | the core axis. | | | | | | | | | |
| | | 213.00 217.20 Rock RQD 30%. | | | | | | | | | |
| | | 213.00 214.50 4b. | 20463 | 213.00 | 214.50 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| | | 214.50 216.00 4b quartz veins Note: not a mistake. | 25995 | 214.50 | 216.00 | 1.50 | TR | 5.48 | n/a | n/a | 5.48 |
| | | 216.00 217.20 4b. | 20464 | 216.00 | 217.20 | 1.20 | TR | 5.90 | n/a | n/a | 5.90 |
| 217.20 | 231.50 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. Very well bedded to laminated iron formation similar to 206.75 213.0. 60% laminated magnetite rich 'b' beds interbedded with 35% 'f' beds. 2 to 3% quartz pyrrhotite veins with trace to 0.5% fine grained pyrrhotite. Up to 5% disseminated carbonate and carbonate veinlets parallel to fracture cleavage. Bedding decreases from 55 degrees to the core axis to 40 to 45 degrees to the core axis toward lower contact. Moderately common tight left limb minor folds with axial plane at 40 to 45 degrees to the core axis. | | | | | | | | | |
| | | 217.20 231.50 Rock RQD 95%. | | | | | | | | | |
| | | 217.20 218.70 4bf. | 20465 | 217.20 | 218.70 | 1.50 | TR | 1.51 | n/a | n/a | 1.51 |
| | | 218.70 220.20 4bf. | 20466 | 218.70 | 220.20 | 1.50 | TR | 4.53 | n/a | n/a | 4.53 |
| | | 220.20 221.20 4bf Note: not a mistake. | 25996 | 220.20 | 221.20 | 1.00 | TR | 1.51 | n/a | n/a | 1.51 |
| | | 221.20 222.50 4bf Note: not a mistake. | 25997 | 221.20 | 222.50 | 1.30 | TR | 1.03 | n/a | n/a | 1.03 |
| | | 222.50 224.00 4bf. | 20467 | 222.50 | 224.00 | 1.50 | TR | 1.30 | n/a | n/a | 1.30 |
| | | 227.00 228.50 4bf. | 20468 | 227.00 | 228.50 | 1.50 | TR | 2.61 | n/a | n/a | 2.61 |
| | | 228.50 230.00 4bf 5% quartz pyrrhotite veins. | 20469 | 228.50 | 230.00 | 1.50 | 1 | 2.74 | n/a | n/a | 2.74 |
| | | 220.00 231.50 4bf 3.0 cm pyrrhotite band @230.5m. | 20470 | 230.00 | 231.50 | 1.50 | 5 | 1.23 | n/a | n/a | 1.23 |
| 231.50 | 240.20 | CHERT - MAGNETITE IRON FORMATION 4b. Moderately bedded iron formation consisting of 85% interbedded to interlaminated chert magnetite. Very faint grunerite alteration occurs as thin seams along bedding planes increasing toward lower contact to partial overprinting of magnetite beds imparting a mottled texture Up to 10% 'f' beds typically <0.5cm wide, scattered throughout. Fracture planes moderately to local intensely chloritic throughout. 3 to 5% carbonate veinlets parallel to foliation. Foliation subparallel to bedding. 231.50 238.00 Bedding at 40 degrees to the core axis. | | | | | | | | | |
| | | 231.50 238.00 Rock RQD 40%. | | | | | | | | | |
| | | 231.50 233.00 4b. | 20471 | 231.50 | 233.00 | 1.50 | TR | .27 | n/a | n/a | .27 |
| | | 235.00 236.50 4b. | 20472 | 235.00 | 236.50 | 1.50 | TR | .40 | n/a | n/a | .40 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %p Au g/t RERUN REJECT AVERAGE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 6513.3 7030.9 SURVEYED: YES

PLACER DONE INC.

LOCATION: 13+00N 4+00W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5560
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO
SECTION:

POST LOCATION:

AZIMUTH: 19.2

LENGTH: 437.0

ELEVATION: 5302.5

LOGGED BY: P. GERTZBEIN, R. STEWART

DIP: -67.5

CORE SIZE: 8Q

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEBRUARY 26 - MARCH 4, 1980

STARTED: FEBRUARY 23, 1980

COMPLETED: MAR 4, 1980

CLAIM NO:

PURPOSE: TEST 5000 N EL T MAIN ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 14.00 | | -66.0 | 240.00 | | -61.0 |
| 30.00 | | -66.0 | 270.00 | | -61.0 |
| 60.00 | | -66.0 | 300.00 | | -60.0 |
| 90.00 | | -64.5 | 330.00 | | -60.0 |
| 120.00 | | -64.0 | 360.00 | | -59.5 |
| 150.00 | | -63.0 | 390.00 | | -59.0 |
| 180.00 | | -63.0 | 420.00 | | -58.0 |
| 210.00 | | -62.0 | 450.00 | | -56.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

.00 12.15 OVERBURDEN

12.15 19.10 INTERMEDIATE TO MAFIC VOLCANICS

Fine grained, medium green, hornblende rich mafic volcanic.
3 to 5% carbonate veins 1 to 5 mm parallel to foliation.
Well developed foliation at 30 to 37 degrees to the core axis.
Poor rqd, core is breaking parallel to foliation and along a joint set at 70 to 90 degrees to the core axis.
12.15 19.10 Rock RQD 25%.

19.10 40.50 INTRAFORMATIONAL IRON FORMATION

2-4f.
Brown medium to coarse grained, bedding from 1 to 10 cm.
85 to 90% garnet biotite schist with 15 to 20% garnets to 1 mm, 10 to 15% amorphous andalusite crystals to 0.5 mm and 1 to 2% amorphous staurolite crystals to 0.5 mm.
5 to 10% intense grunerite ea beds 3 to 5% subhedral garnets to less than 1 mm.
3 to 5% carbonate and quartz veins generally parallel to bedding.
38.25 to 39.25 drill through nose of fold qtz ponding with minor pyrrhotite.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|--------|--------|-------|--------|---------|
| | | Well preserved bedding at 63 to 70 degrees to the core axis 219.4 to 220.1 left limb folding axial plane 30 degrees to the core axis. 220.2 Antiformal fold closure. 220.2 to 221.3 right limb folding axial plane 63 degrees to the core axis. 221.4 Synformal fold closure axial plane 67 degrees to the core axis. 221.4 to 224.7 left limb folding axial plane 52 degrees to the core axis. 219.41 224.70 Rock RQD 100%. 223.50 224.70 lfaa. | 21762 | 223.50 | 224.70 | 1.20 | 1-2 | 1.70 | n/a | n/a | 1.70 |
| 224.70 | 241.45 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST lbf. 50% Laminated 'b' beds. Magnetite occurs as discrete laminae and as dull grey disseminated bands. 35 to 40 'f' beds up to 3.0 cm but typically <0.5 cm 'f' beds contain 10 to locally 30% 1 to 2 mm subhedral garnets 'f' beds commonly moderately chloritic. 10% Garnet poor hornblende beds. Faint grunerite alteration occurs along bedding plane contacts. Up to 5% carbonate and/or minor quartz veins parallel to foliation. Trace to nil sulphides. Bedding regular at 59 to 61 degrees to the core axis. Well developed fracture cleavage at 35 to 45 degrees to the core axis. Rare left limb minor fold. Axial plane at 45 degrees to the core axis. 224.70 241.45 Rock RQD 95%. 224.70 226.20 lbf. 227.50 229.00 lbf. 230.85 232.00 lfaa 50% gruneritized 'ea' beds interbedded with 30% laminated 'b' and up to 15% 'f'. Bedding at 59 degrees to the core axis. 230.85 232.00 lfaa. 232.00 233.50 lbf. 233.50 235.00 lbf up to 15% poorly developed 'ea' beds. 235.00 236.50 lbf up to 15% poorly developed 'ea' beds. 236.50 238.00 lbf. 238.00 239.50 lbf 15% quartz pyrrhotite veins up to 10 cm wide. 239.50 240.50 lbf 5% quartz pyrrhotite veins. 240.50 241.45 lbf. | 21763 | 224.70 | 226.20 | 1.50 | TR | .89 | n/a | n/a | .89 |
| | | | 21764 | 227.50 | 229.00 | 1.50 | TR | .55 | n/a | n/a | .55 |
| | | | 21765 | 230.85 | 232.00 | 1.15 | TR-0.5 | .82 | n/a | n/a | .82 |
| | | | 21766 | 232.00 | 233.50 | 1.50 | TR | .75 | n/a | n/a | .75 |
| | | | 21767 | 233.50 | 235.00 | 1.50 | TR | .69 | n/a | n/a | .69 |
| | | | 21768 | 235.00 | 236.50 | 1.50 | TR-0.5 | .40 | n/a | n/a | .40 |
| | | | 21769 | 236.50 | 238.00 | 1.50 | TR-0.5 | .34 | n/a | n/a | .34 |
| | | | 21770 | 238.00 | 239.50 | 1.50 | 1 | 2.33 | n/a | n/a | 2.33 |
| | | | 21771 | 239.50 | 240.50 | 1.00 | 1 | 6.03 | n/a | n/a | 6.03 |
| | | | 21772 | 240.50 | 241.45 | .95 | TR | .89 | n/a | n/a | .89 |

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 361.80 | 362.80 | 4f. | 21801 | 361.80 | 362.80 | 1.00 | TR-1 | .41 | n/a | n/a | .41 |
| 362.80 | 363.80 | 4f. | 21802 | 362.80 | 363.80 | 1.00 | TR-1 | .27 | n/a | n/a | .27 |
| 363.80 | 377.70 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. 50% Well developed 'ea' beds with 60% garnets up to 0.5 cm commonly forming clusters supported by grunerite associated with up to 10% fine grained, wispy seams of dark green hornblende. Interbedded on a cm scale with 35% recrystallized chert beds. 5 to 10% fine grained disseminated magnetite associated with chert and more rarely within grunerite rich beds. Overall 5% 'f' beds. 2' to 3' locally up to 5% fine grained pyrrhotite throughout occurring as narrow stringers associated with chert and green hornblende. Pyrrhotite also occurs as fine grained disseminated flecks within 'ea' beds. Bedding at 38 to 46 degrees to the core axis. Rare left limb minor fold with axial plane at 38 degrees to the core axis. 363.80 377.70 Rock BQD 100%. 363.80 364.80 4ea moderately silicified. 364.80 365.80 4ea moderately silicified. 365.80 366.80 4ea moderately silicified. 366.80 367.80 4ea moderately silicified. 367.80 368.80 4ea. 368.80 369.80 4ea. 369.80 372.70 4ea as described above with 20 to 25% well developed 'f' beds up to 4.0 cm. Trace to 1% fine grained pyrrhotite. 369.80 370.80 4ea. 370.80 371.80 4ea. 371.80 372.70 4ea. 372.70 373.70 4ea. 373.70 374.70 4ea. 374.70 375.70 4ea. 375.70 376.70 4ea. 376.70 377.70 4ea. | 21803 | 363.80 | 364.80 | 1.00 | 5-7 | 17.87 | n/a | n/a | 17.87 |
| | | | 21804 | 364.80 | 365.80 | 1.00 | 5-7 | 3.70 | n/a | n/a | 3.70 |
| | | | 21805 | 365.80 | 366.80 | 1.00 | 7-10 | 15.02 | n/a | n/a | 15.02 |
| | | | 21806 | 366.80 | 367.80 | 1.00 | 5-7 | 5.37 | n/a | n/a | 5.37 |
| | | | 21807 | 367.80 | 368.80 | 1.00 | 2-3 | .21 | n/a | n/a | .21 |
| | | | 21808 | 368.80 | 369.80 | 1.00 | 1-2 | 1.71 | n/a | n/a | 1.71 |
| | | | 21809 | 369.80 | 370.80 | 1.00 | TR-1 | 1.51 | n/a | n/a | 1.51 |
| | | | 21810 | 370.80 | 371.80 | 1.00 | TR-1 | .40 | n/a | n/a | .40 |
| | | | 21811 | 371.80 | 372.70 | .90 | TR-1 | .82 | n/a | n/a | .82 |
| | | | 21812 | 372.70 | 373.70 | 1.00 | 3 | .89 | n/a | n/a | .89 |
| | | | 21813 | 373.70 | 374.70 | 1.00 | 1-2 | 2.88 | n/a | n/a | 2.88 |
| | | | 21814 | 374.70 | 375.70 | 1.00 | 1 | .01 | n/a | n/a | .01 |
| | | | 21815 | 375.70 | 376.70 | 1.00 | 3-4 | 3.81 | n/a | n/a | 3.81 |
| | | | 21816 | 376.70 | 377.70 | 1.00 | 3 | 11.93 | n/a | n/a | 11.93 |

377.70 405.40 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE

I.F.

4ea.

Very well bedded iron formation similar to 363.8 to 377.7.
50% Well developed 'ea' beds with 1 to 5 mm garnets forming glomeroporphyritic masses supported by hornblende, grunerite.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

Hornblende often forms garnet poor laminae to beds.
Interbedded with 40% laminated chert magnetite.
Magnetite commonly concentrates along margins of chert beds
Rare 'f' beds. Biotite often altered to chlorite.
2 to 3% narrow carbonate veinlets subparallel to bedding.
Overall trace to 1% fine grained pyrrhotite, locally
pyrrhotite content increases to 3 to 5% over 20cm.

Bedding very well preserved at 30 to 45 degrees to the
core axis.
Rare left limb minor fold. Axial plane at 45 degrees to
the core axis.

377.70 389.00 Rock RQD 100%.

377.70 379.20 Keab.

21017 377.70 379.20 1.50 TR .01 n/a n/a .01

379.20 380.70 Keab.

21018 379.20 380.70 1.50 1 .01 n/a n/a .01

380.70 382.20 Keab 70 cm mafic wedge @ 380.7m.

21019 380.70 382.20 1.50 TR-1 .55 n/a n/a .55

382.20 383.70 Keab 5 cm zone with 5% pyrrhotite stringers.

21020 382.20 383.70 1.50 1-2 1.65 n/a n/a 1.65

383.70 385.20 Keab 10 cm zone with 5% pyrrhotite stringers.

21021 383.70 385.20 1.50 1-2 1.30 n/a n/a 1.30

385.20 386.70 Keab.

21022 385.20 386.70 1.50 TR 1.17 n/a n/a 1.17

386.70 388.20 Keab.

21023 386.70 388.20 1.50 TR 1.03 n/a n/a 1.03

388.20 389.70 Keab 25 cm zone with 3% fine grained
pyrrhotite stringers.

21024 388.20 389.70 1.50 1-2 5.14 n/a n/a 5.14

389.00 405.40 Rock RQD 100%.

389.70 391.20 Keab.

21025 389.70 391.20 1.50 TR 1.23 n/a n/a 1.23

391.20 392.70 Keab.

21026 391.20 392.70 1.50 0 .00 n/a n/a .00

392.70 394.20 Keab, 25 cm zone of quartz veins.

21027 392.70 394.20 1.50 2-4 4.60 n/a n/a 4.60

394.20 395.70 Keab, rare quartz veins.

21028 394.20 395.70 1.50 2-4 5.07 n/a n/a 5.07

395.70 397.20 Keab, silicified in upper 40 cm.

21029 395.70 397.20 1.50 3-5 9.94 n/a n/a 9.94

397.20 398.70 Keab, quartz veins.

21030 397.20 398.70 1.50 2-4 7.54 n/a n/a 7.54

398.00 401.00 Similar to text but with 2 to 4% carbonate
stringers, parallel to bedding, locally
yellow with iron staining.

398.70 400.20 Keab, quartz-carbonate veins.

21031 398.70 400.20 1.50 3-5 2.00 n/a n/a 2.00

400.20 401.70 Keab, 50 cm zone of quartz veins.

21032 400.20 401.70 1.50 2-4 2.33 n/a n/a 2.33

401.70 403.20 Keab, 10 to 15 cm quartz veins.

21033 401.70 403.20 1.50 1-3 4.39 n/a n/a 4.39

403.20 404.70 Keab, quartz rare.

21034 403.20 404.70 1.50 TR-1 .41 n/a n/a .41

404.70 405.40 Keab.

21035 404.70 405.40 .70 0 .34 n/a n/a .34

405.40 425.00 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4b(f).

Similar to 224.7, but with only 10 to 15% 'f' beds, 0.5 to
2.0 cm, locally developed. 'f' beds best developed from
409.2 to 412.5, concentrated to 25%. Beds typically
garnet poor, with less than or equal to 2% pinhead
garnets. 'f' beds laminated with only trace garnets, in
lower 6.0 m of unit.

10 to 15% magnetite poor chert beds, less than or equal to
1.0 cm, generally boudinaged.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %G Av g/t RERUN REJECT AVERAGE

Grunerite laminae better developed below 419.0, up to 2 mm wide.

Well bedded at 20 to 40 degrees to the core axis, increasing gradually downhole to 40 to 51 degrees to the core axis below 423.0.

Locally defined fracture cleavage, carbonate filled < 1 mm wide with orientation 18 to 25 degrees to the core axis.

MB: fracture cleavage < bedding angle.

10 to 15% quartz veins, 1 to 10 cm wide, sub parallel to bedding.

Quartz associated with trace to 1%, locally 1 to 3% pyrrhotite as veinlets and blebs up to 7 mm in quartz; also as rare poorly developed sulphide replacement of magnetite.

405.40 425.00 Rock RQD 100%.

405.40 406.90 4b(f), quartz rare.

406.90 408.40 4b(f), quartz veins.

408.40 409.90 4b(f), quartz veins.

409.90 411.40 4b(f), quartz veins.

411.40 412.90 4bf, quartz rare.

412.90 414.50 4bf, rare quartz vein.

414.50 416.00 4b(f), character sample.

417.50 419.00 4b(f), character sample.

419.00 420.50 4b(f), character sample.

420.50 422.00 4b(f), quartz veins.

422.00 423.50 4b(f), 25 to 30% quartz.

423.50 425.00 4b(f), less than or equal to 5% quartz veins.

| | | | | | | | | |
|-------|--------|--------|------|------|------|-----|-----|------|
| 21036 | 405.40 | 406.00 | 1.50 | TR-1 | .55 | n/a | n/a | .55 |
| 21037 | 406.00 | 406.40 | 1.50 | 1-3 | 5.49 | n/a | n/a | 5.49 |
| 21038 | 406.40 | 409.90 | 1.50 | 1-2 | 1.30 | n/a | n/a | 1.30 |
| 21039 | 409.90 | 411.40 | 1.50 | 1-3 | 1.44 | n/a | n/a | 1.44 |
| 21040 | 411.40 | 412.90 | 1.50 | 1 | 2.61 | n/a | n/a | 2.61 |
| 21041 | 412.90 | 414.50 | 1.60 | TR | .01 | n/a | n/a | .01 |
| 21042 | 414.50 | 416.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 21043 | 417.50 | 419.00 | 1.50 | 0 | 3.09 | n/a | n/a | 3.09 |
| 21044 | 419.00 | 420.50 | 1.50 | TR | .00 | n/a | n/a | .00 |
| 21045 | 420.50 | 422.00 | 1.50 | 2-4 | 1.03 | n/a | n/a | 1.03 |
| 21046 | 422.00 | 423.50 | 1.50 | 2-4 | .62 | n/a | n/a | .62 |
| 21047 | 423.50 | 425.00 | 1.50 | 1-3 | .75 | n/a | n/a | .75 |

425.00 437.00 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4b(a).

50 to 60% 'b' beds, 0.2 to 2.1 cm, with 15 to 20% disseminated magnetite.

25 to 30% magnetite poor chert beds, less than or equal to 1.5 cm, generally with grunerite laminae up to 3 mm wide at contact with 'b' beds.

Rare 'f' beds, less than or equal to 1.0 cm, moderately to heavily chloritized, with pinhead garnets.

Well bedded at 54 to 56 degrees to the core axis, decreasing gradually downhole to 35 degrees to the core axis at eoh.

5 to 10% quartz veins, less than or equal to 2.0 cm, locally to 20 cm, containing 1% trace pyrrhotite blebs and stringers as in samples.

425.00 437.00 Rock RQD 100%.

425.00 426.50 4b(a), quartz rare.

428.00 429.50 4b(a), quartz rare.

428.10 428.20 Tight left limb fold, with axial plane 49 degrees to the core axis.

| | | | | | | | | |
|-------|--------|--------|------|---|-----|-----|-----|-----|
| 21048 | 425.00 | 426.50 | 1.50 | 1 | .01 | n/a | n/a | .01 |
| 21049 | 428.00 | 429.50 | 1.50 | 1 | .75 | n/a | n/a | .75 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MVS580
PAGE NO: 16

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 429.50 | 430.50 | Carbonate filled fracture cleavage at 19 degrees to the core axis ; fractures up to 1 mm wide. | | | | | | | | | |
| 429.50 | 431.00 | 41(a), character sample. | 21950 | 429.50 | 431.00 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 432.50 | 434.00 | 4b(a), rare 2 cm quartz veins. | 21951 | 432.50 | 434.00 | 1.50 | 1-2 | .50 | n/a | n/a | .40 |
| 432.60 | 436.00 | Locally developed fracture cleavage at 28 to 34 degrees to the core axis. | | | | | | | | | |
| 434.00 | 434.30 | Very broad, open left limb fold, with axial plane 36 degrees to the core axis. | | | | | | | | | |

437.00 437.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

REF COR: 0011.7 5048.3 SURVEYED: YES

PLACER DONE INC.

LOCATION: 32+00N 3+00W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5500
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 360.0

ELEVATION: 5302.5

LOGGED BY: R. STEWART and PAUL GERTZBEIN

DIP: -60.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: FEB 27 - MAR 4, 1980

STARTED: FEB 26, 1980

COMPLETED: MAR 4, 1980

CLAIM NO:

PURPOSE: TEST THE PQ LIMB AT 5100m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -61.0 | 210.00 | | -55.0 |
| 60.00 | | -60.0 | 240.00 | | -55.0 |
| 90.00 | | -59.0 | 270.00 | | -54.5 |
| 120.00 | | -57.0 | 300.00 | | -54.0 |
| 150.00 | | -56.0 | 330.00 | | -52.0 |
| 180.00 | | -56.0 | 360.00 | | -51.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/l | REURW | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

.00 7.60 OVERBURDEN

7.60 29.00 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

fine grained, brown to grey brown phlogopite rich felsic volcanic.

Sections to 1 meter of mafic volcanic.

5 to 10% carbonate veinlets parallel to to foliation.

5 to 10% feldspar phenocryst less than 0.5 mm.

This unit is more toward the intermediate end of felsic to intermediate.

Well developed foliation at 30 to 47 degrees to the core axis.

7.6 to 10.0 blocky core with oxidized iron on fracture surfaces.

7.61 10.00 Rock RQD 0.

10.01 29.00 Rock RQD 90%.

29.00 52.65 FELSIC TO INTERMEDIATE VOLCANICS

A Volcanic.

As described 7.6 to 29.0.

Well developed foliation at 30 to 45 degrees to the core axis.

29.01 52.65 Rock RQD 90%.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

to 263.0m.

Bedding very well developed at 45 to 55 degrees to the core axis.

Overall trace to 1% pyrrhotite associated with quartz veins except as noted below.

261.50 266.00 Rock RQD 75%.

261.50 263.00 4bf.

20496 261.50 263.00 1.50 TR-1 1.37 n/a n/a 1.37

263.00 264.00 4tf.

20497 263.00 264.00 1.00 TR-1 14.50 n/a n/a 14.50

264.00 265.00 4bf, 15cm 25% fine grained pyrrhotite @264.75m, 1 speck visible gold.

20498 264.00 265.00 1.00 10 2.05 n/a n/a 2.05

265.00 266.00 4bf.

20499 265.00 266.00 1.00 TR-1 1.10 n/a n/a 1.10

266.00 275.00 CHERT - MAGNETITE IPON FORMATION

4b.

Moderately to well bedded iron formation composed of 90% interbedded to interlaminated chert magnetite.

Chert beds often boudinaged.

Minor grunerite alteration occurring as narrow seams along bedding contacts increasing gradually toward lower contact 10% 'f' beds scattered throughout.

Trace to 1% fine grained pyrrhotite associated with rare quartz veins.

Bedding constant at 40 degrees to the core axis.

Foliation subparallel to bedding.

266.00 275.00 Rock RQD 90%.

266.00 267.50 4b rare quartz pyrrhotite vein.

20500 266.00 267.50 1.50 TR-1 1.10 n/a n/a 1.10

267.50 269.00 4b rare quartz pyrrhotite vein.

20501 267.50 269.00 1.50 TR-1 1.70 n/a n/a 1.70

269.00 270.50 4b.

20502 269.00 270.50 1.50 TR .02 n/a n/a .02

270.50 272.00 4b.

20503 270.50 272.00 1.50 TR .01 n/a n/a .01

272.00 273.50 4b 5 cm pyrrhotite band at 273.1m.

20504 272.00 273.50 1.50 3 .02 n/a n/a .02

273.50 275.00 4b.

20505 273.50 275.00 1.50 TR .21 n/a n/a .21

275.00 296.30 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.

45% Boudinaged chert beds up to 2.0 cm wide interbedded with 45% magnetite grunerite beds.

Pervasive grunerite alteration varying from thin laminae along bedding planes to complete overprinting with minor mottled magnetite.

Up to 5% 'f' beds except as noted below.

3 to 5% quartz pyrrhotite veins scattered throughout. Veins often boudinaged with trace to 1% fine grained pyrrhotite concentrated in necks.

Bedding typically 40 to 50 degrees to the core axis but locally decreases to 35 degrees to the core axis.

Common open to closed left limb minor folds with axial plane at 40 to 45 degrees to the core axis.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: HUS589
PAGE NO: 1

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| 275.00 | 296.30 | Rock RQD 95%. | | | | | | | | | |
| 275.00 | 276.35 | 4ba. | 20506 | 275.00 | 276.35 | 1.35 | TR | .01 | n/a | n/a | .01 |
| 276.35 | 280.55 | 4bh chert magnetite grunerite iron formation similar to text but with 15% 'f' beds 15% pyrrhotite as fine grained stringers concentrating in 'f' beds appearing to replace biotite. Bedding poorly preserved, with elongate boudinaged chert fragments supported by sulphide cement. | | | | | | | | | |
| 276.35 | 277.55 | 4bh. | 20507 | 276.35 | 277.55 | 1.20 | 10 | 1.03 | n/a | n/a | 1.03 |
| 277.55 | 279.05 | 4bh. | 20508 | 277.55 | 279.05 | 1.50 | 15 | .01 | n/a | n/a | .01 |
| 279.05 | 280.55 | 4bh. | 20509 | 279.05 | 280.55 | 1.50 | 15 | .55 | n/a | n/a | .55 |
| 280.55 | 282.05 | 4ba, rare quartz pyrrhotite vein. | 20510 | 280.55 | 282.05 | 1.50 | TR-1 | .62 | n/a | n/a | .62 |
| 282.05 | 283.55 | 4ba, rare quartz pyrrhotite vein. | 20511 | 282.05 | 283.55 | 1.50 | TR-1 | .62 | n/a | n/a | .62 |
| 283.55 | 285.05 | 4ba. | 20512 | 283.55 | 285.05 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 285.05 | 286.55 | 4ba with 40 cm poorly developed 4bh. | 20513 | 285.05 | 286.55 | 1.50 | 2-3 | .34 | n/a | n/a | .34 |
| 286.55 | 288.05 | 4ba. | 20514 | 286.55 | 288.05 | 1.50 | TR-1 | .41 | n/a | n/a | .41 |
| 288.05 | 289.55 | 4ba. | 20515 | 288.05 | 289.55 | 1.50 | TR | .40 | n/a | n/a | .40 |
| 289.55 | 291.00 | 4ba. | 20516 | 289.55 | 291.00 | 1.45 | TR | .01 | n/a | n/a | .01 |
| 291.00 | 292.20 | 4bh similar to 276.35 to 280.55, but with 10% 'f' beds and 5 to 10% fine grained pyrrhotite stringers. | | | | | | | | | |
| 291.00 | 292.20 | 4bh. | 20517 | 291.00 | 292.20 | 1.20 | 5-10% | .01 | n/a | n/a | .01 |
| 292.20 | 293.50 | 4ba. | 20518 | 292.20 | 293.50 | 1.30 | TR | .01 | n/a | n/a | .01 |
| 293.50 | 294.80 | 4ba. | 20519 | 293.50 | 294.80 | 1.30 | TR | .01 | n/a | n/a | .01 |
| 294.80 | 296.30 | 4ba. | 20520 | 294.80 | 296.30 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 296.30 | 306.30 | BASALT 2. Fine grained, blueish green hornblende rich mafic with up to 10% fine to medium grained phlogopite occurring as discrete seams. Up to 5% carbonate veins parallel to foliation. Foliation well developed at 30 to 45 degrees to the core axis. Unit very blocky along foliation. Fracture cleavage surface moderately chloritic. | | | | | | | | | |
| 296.30 | 306.30 | Rock RQD 10%. | | | | | | | | | |
| 306.30 | 310.05 | SULFIDE FACIES IRON FORMATION 4bh. Similar to 276.35 to 280.55. Bedding at 25 to 30 degrees to the core axis. 10 To locally 20% fine grained pyrrhotite as sulphide cement preferentially concentrating in 'f' beds. | | | | | | | | | |
| 306.30 | 310.05 | Rock RQD 90%. | | | | | | | | | |
| 306.30 | 307.60 | 4bh. | 20521 | 306.30 | 307.60 | 1.30 | 10 | .40 | n/a | n/a | .40 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: HUSS69
PAGE NO: 8

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|-------------|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 319.20 | 320.70 | 4b. | 20531 | 319.20 | 320.70 | 1.50 | TR | .69 | n/a | n/a | .69 |
| 320.70 | 322.20 | 4b. | 20532 | 320.70 | 322.20 | 1.50 | TR | .27 | n/a | n/a | .27 |
| 322.20 | 323.70 | 4b. | 20533 | 322.20 | 323.70 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 323.70 | 325.20 | 4b. | 20534 | 323.70 | 325.20 | 1.50 | TR | .40 | n/a | n/a | .40 |
| 325.20 | 326.70 | 4b. | 20535 | 325.20 | 326.70 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 326.70 | 328.20 | 4b. | 20536 | 326.70 | 328.20 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 328.20 | 329.70 | 4b. | 20537 | 328.20 | 329.70 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 329.70 | 331.20 | 4b. | 20538 | 329.70 | 331.20 | 1.50 | TR | .09 | n/a | n/a | .09 |
| 331.20 | 332.70 | 4b. | 20539 | 331.20 | 332.70 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 332.70 | 333.85 | 4b. | 20540 | 332.70 | 333.85 | 1.15 | TR | .40 | n/a | n/a | .40 |
| 333.85 | 335.00 | 4b. | 20541 | 333.85 | 335.00 | 1.15 | TR | .27 | n/a | n/a | .27 |

335.00 343.55 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.
4ba.

Poorly bedded iron formation composed of 45% boudinaged chert beds interbedded with 45% intensely gruneritized magnetite beds imparting a mottled texture.

10% Disseminated fine grained carbonate throughout, overprinting bedding.

1 to 2% fine grained pyrrhotite stringers associated with chert.

Bedding at 32 to 42 degrees to the core axis.

335.00 343.55 Rock RQD 100.

335.00 336.50 4ba.

336.50 338.00 4ba.

338.00 339.50 4ba.

339.50 341.00 4ba.

341.00 342.50 4ba with 45 cm garnet bearing mafic.

342.50 343.55 4ba.

| | | | | | | | | |
|-------|--------|--------|------|------|-----|-----|-----|-----|
| 20542 | 335.00 | 336.50 | 1.50 | TR-1 | .21 | n/a | n/a | .21 |
| 20543 | 336.50 | 338.00 | 1.50 | 1-2 | .60 | n/a | n/a | .60 |
| 20544 | 338.00 | 339.50 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| 20545 | 339.50 | 341.00 | 1.50 | 1-2 | .21 | n/a | n/a | .21 |
| 20546 | 341.00 | 342.50 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 20547 | 342.50 | 343.55 | 1.05 | | .02 | n/a | n/a | .02 |

343.55 360.00 CHERT - MAGNETITE IRON FORMATION

4b.

Moderately to locally poorly bedded iron formation composed of 50% laminated dull grey magnetite beds with 35% chert.

Up to 5% grunerite alteration occurring along bedding planes and more rarely, partially overprinting magnetite beds.

5 to locally 15% 'f' beds scattered throughout.

10% Carbonate veins and veinlets filling S2 fracture cleavage. Large veins noted below.

Texturally unit varies from very well bedded to very poorly bedded as noted below.

Trace to 1% fine grained pyrrhotite associated with quartz concentrating in 'f' rich segments.

Fracture cleavage parallel to bedding.

343.55 350.00 4b well bedded at 40 degrees to the core axis

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | RPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 343.55 | 354.60 | Rock RQD 80%. | | | | | | | | | |
| 343.55 | 345.00 | 4b. | 20540 | 343.55 | 345.00 | 1.45 | TR | .75 | n/a | n/a | .75 |
| 347.00 | 349.50 | 4b 50 cm carbonate vein @ 347.50m. | 20540 | 347.00 | 349.50 | 1.50 | TR | .80 | n/a | n/a | .80 |
| 350.00 | 354.60 | 4bf as described above but with very poorly preserved bedding up to 15% remnant 'f' beds occur as ripped bed fragments moderately silicified associated with 1 to 2% fine grained pyrrhotite. Bedding at 55 to 60 degrees to the core axis. | | | | | | | | | |
| 350.00 | 351.50 | 4bf. | 20550 | 350.00 | 351.50 | 1.50 | 1-2 | 1.85 | n/a | n/a | 1.85 |
| 351.50 | 353.00 | 4bf. | 20551 | 351.50 | 353.00 | 1.50 | 1-2 | 3.20 | n/a | n/a | 3.20 |
| 353.00 | 354.60 | 4bf. | 20552 | 353.00 | 354.60 | 1.60 | 1-2 | 3.36 | n/a | n/a | 3.36 |
| 354.60 | 368.00 | 4b bedding at 30 to 40 degrees to the core axis. Well developed fracture cleavage at 50 to 55 degrees to the core axis. | | | | | | | | | |
| 356.00 | 357.50 | 4b, 50 cm carbonate vein. | 20553 | 356.00 | 357.50 | 1.50 | TR-1 | .60 | n/a | n/a | .60 |
| 357.00 | 358.40 | Medium grained carbonate vein. | | | | | | | | | |
| 357.50 | 359.00 | 4b, 90 cm carbonate vein. | 20554 | 357.50 | 359.00 | 1.50 | TR-1 | .55 | n/a | n/a | .55 |
| 359.00 | 360.15 | Medium grained carbonate vein. | | | | | | | | | |
| 359.00 | 360.50 | Carbonate vein. | 20555 | 359.00 | 360.50 | 1.50 | TR | .40 | n/a | n/a | .40 |
| 362.00 | 363.50 | 4b. | 20556 | 362.00 | 363.50 | 1.50 | TR | .60 | n/a | n/a | .60 |
| 363.50 | 365.00 | 4b. | 20557 | 363.50 | 365.00 | 1.50 | TR | .90 | n/a | n/a | .90 |
| 366.50 | 368.00 | 4b. | 20558 | 366.50 | 368.00 | 1.50 | TR | .40 | n/a | n/a | .40 |

368.00 368.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 7693.0 6249.1 SURVEYED: YES

PLACER DOME INC.

LOCATION: 27*00N 2*25W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5570
PROPERTY: NUSSEWHITE GRUBSTAKE (1073)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.4

LENGTH: 257.0

ELEVATION: 5302.5

LOGGED BY: M. BECKETT

DIP: -52.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MAR. 02 - 04, 1980

STARTED: FEB. 29, 1980

COMPLETED: MAR. 03, 1980

CLAIM NO:

PURPOSE: TEST 5200m EL ON ESKER ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -52.5 | 150.00 | | -47.0 |
| 60.00 | | -52.0 | 180.00 | | -46.0 |
| 90.00 | | -51.0 | 210.00 | | -44.0 |
| 120.00 | | -48.5 | 240.00 | | -42.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Av g/t | RERM | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|---|--|--|--|--|--|--|--|--|--|
| .00 | 23.00 | OVERBURDEN (sand, gravel, and tonalite boulders at bedrock interface). | | | | | | | | | |
|-----|-------|---|--|--|--|--|--|--|--|--|--|

23.00 109.00 FELSIC TO INTERMEDIATE VOLCANICS

A volcanic.

Typical fine grained to medium grained felsic volcanic unit, containing 10 to 15% 1 to 3 mm sericite bands.

Sericite bands produce well defined compositional banding.

Well foliated at 44 to 61 degrees to the core axis.

Locally developed white quartz veins, less than or equal to 1.0 cm sub parallel to compositional banding, barren.

23.00 48.20 A VOLC intermediate composition, with 15 to 20% medium grained brown phlogopite, throughout unit, but locally as phlogopite rich bands up to 1.5 cm. Occasional carbonate filled veins up to 2 mm wide, with no preferred orientation; veins generally surrounded by 2 to 10 mm rusty zones, with local rusty patches in the actual veins. Alteration zone extends from 32.0 to 33.65. 23.01 48.20 rock RQD 80 to 85%.

42.50 44.00 A volc, 5% white quartz veins.

43.20 69.80 Similar to text, but unit grades from intermediate to felsic composition over 4.0 m. Unit still contains 3 to 5% phlogopite, locally developed; well foliated at 49 to 59 degrees to the core axis. Locally sericite poor over 1 to 2 m sections, with 2 to 4% less

| | | | | | | | | |
|-------|-------|-------|------|---|-----|-----|-----|-----|
| 19500 | 42.50 | 44.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
|-------|-------|-------|------|---|-----|-----|-----|-----|

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

than or equal to 1.5 mm feldspar crystals.
Blocky sections rare.

48.21 69.80 Rock RQD 80 to 85%.

69.80 87.10 Similar to text, but with less than or equal to 5% sericite overall. Occasional 1 to 4 cm white carbonate veins parallel to foliation at 58 to 59 degrees to the core axis; veins barren. Rare sulphide veinlets (pyrite > pyrrhotite) locally developed associated with carbonate infilling of vuggy cavities. Unit locally blocky with occasional silver dollar core.

69.81 87.10 Rock RQD 70 to 75%.

95.60 87.10 A volc, 1 to 3% pyrite.

19588 95.60 87.10 1.50 TR .01 n/a n/a .01

87.10 94.15 Similar to 23.0 to 48.2, but phlogopite is fine grained. Well foliated at 61 to 67 degrees to the core axis.

87.11 94.15 Rock RQD 90 to 95%.

94.15 98.70 Similar to main text, but unit contains up to 10% blue quartz veins up to 1.0 cm wide, parallel to foliation at 46 to 48 degrees to the core axis. Veins associated with 2 to 4% pyrrhotite as anastomosing veinlets and rare sulphide replacement texture; also 1 to 3% pyrite veinlets, generally occurring associated with separate quartz veins from pyrrhotite.

94.15 95.65 A volc, trace to 1% pyrite.

19590 94.15 95.65 1.50 1-3 1.37 n/a n/a 1.37

94.16 98.70 Rock RQD 95%.

95.65 97.15 A volc, 1 to 2% pyrite.

19591 95.65 97.15 1.50 2-4 .27 n/a n/a .27

97.15 98.65 A volc, 1 to 3% pyrite.

19592 97.15 98.65 1.50 2-4 .34 n/a n/a .34

98.65 100.15 A volc, trace pyrite.

19593 98.65 100.15 1.50 1-2 .69 n/a n/a .69

98.70 109.80 Similar to main text. Foliated at 46 to 60 degrees to the core axis.

98.71 109.80 Rock RQD 90 to 95%.

109.80 120.40 INTERMEDIATE TO MAFIC VOLCANICS

B volcanic.

Upper contact gradational over 50 cm, with massive pyrite > pyrrhotite band from 110.14 to 110.23. Band contains occasional chert fragments up to 3 mm.

Typical fine grained to medium grained medium green feldspar amphibole volcanic package, with 5 to 10% brown phlogopite, generally developed as phlogopite rich zones up to 1.5 m wide at upper and lower contacts.

Locally garnetiferous over 10 to 50 cm; garnets subhedral, less than or equal to 1.0 cm. Garnet rich sections associated with 1 to 3% pyrrhotite as veinlets

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Av g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 4eab. 50 to 60% heavily gruneritized 'e' beds, 1 to 2 cm, with 20 to 25% 2 to 5 mm subhedral, locally amorphous, garnets. 25 to 30% heavily gruneritized 'b' beds, less than or equal to 1.0 cm, with 3 to 5% magnetite, generally disseminated. 10 to 15% 'f' beds, 3 to 8 mm, moderately to heavily chloritized, with 3 to 5% 1 to 3 mm subhedral garnets. Well bedded at 44 to 54 degrees to the core axis. 3 to 5% white quartz veins, locally developed parallel to bedding, less than or equal to 1.5 cm; associated with trace pyrrhotite flecks. Core locally blocky with chlorite developed on broken faces from 176.0 to 176.6. 175.05 178.25 Rock RQD 80 to 85%. | | | | | | | | | |
| | | 175.05 178.55 4eab, rare quartz veins. | 19823 | 175.05 | 176.55 | 1.50 | TR | .41 | n/a | n/a | .41 |
| | | 176.55 178.05 4eab, rare quartz veins. | 19824 | 176.55 | 178.05 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| | | 178.05 179.25 4eab, quartz veins. | 19825 | 178.05 | 179.25 | 1.20 | TR | .89 | n/a | n/a | .89 |
| 179.25 | 185.25 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. 45 to 50% moderately chloritized 'f' beds, less than or equal to 1.0 cm, with 5 to 8% 1 to 2 mm pinhead garnets. 30 to 35% weakly to moderately gruneritized 'b' beds, up to 9 mm, with 3 to 5% magnetite, disseminated (beds only weakly magnetic). 5 to 8% white chert beds, 2 to 5 mm, locally developed, generally boudinaged. Rare carbonate stringers, less than or equal to 2 mm, parallel to bedding. Well bedded at 46 to 56 degrees to the core axis. Rare broad, open left limb folds, with fold axes 60 degrees to the core axis. 178.25 185.25 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 179.25 180.75 4fb, character sample. | 19826 | 179.25 | 180.75 | 1.50 | 0 | .69 | n/a | n/a | .69 |
| | | 183.75 185.25 4fb, character sample. | 19827 | 183.75 | 185.25 | 1.50 | 0 | .69 | n/a | n/a | .69 |
| 185.25 | 189.10 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. Similar to 161.3. Well bedded at 51 to 60 degrees to the core axis. Rare carbonate-quartz veins, locally developed, less than or equal to 1.3 cm, barren. Rare small right limb folds, with axial plane 85 to 90 degrees to the core axis. 195.25 189.10 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 185.25 186.75 4fb, character sample. | 19828 | 185.25 | 186.75 | 1.50 | 0 | .89 | n/a | n/a | .89 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 188.10 | 189.10 | 4fb, character sample. | 18828 | 188.10 | 189.10 | 1.00 | 0 | .55 | n/a | n/a | .55 |
| 189.10 | 215.70 | GARNET-AMPHIBOLE-CHERT-GRUNERITE T.F. / GARNET-BIOTITE SCHIST keaf. Similar to 144.2, but unit contains up to 20% 'b' beds, less than or equal to 1.0 cm, heavily gruneritized, with 5 to 10% disseminated magnetite. 'b' beds occasionally display mottled magnetite in grunerite texture; beds better developed in lower half of unit. Moderately to well bedded at 60 to 64 degrees to the core axis, but becoming variable downhole from 40 to 71 degrees to the core axis due to folding. 10 to 15% blue quartz, generally as veins sub parallel to bedding, but locally as silicified zones with moderate bedding disruption over 25 to 30 cm. Quartz carries 1 to 3% pyrrhotite, locally 2 to 4%, as veinlets and rare blebs up to 3 mm. Antiform-synform pairs, broad, open, developed from 194.2 to 195.2, with axial plane 88 to 89 degrees to the core axis. Occasional folding throughout unit, generally right limb, broad, open, with axial plane 61 to 80 degrees to the core axis; folding best developed below 200.0 m. NB: this is not a typical 'keaf' unit; rather it is a grab bag of 'ea', 'f', and 'b' material. | | | | | | | | | |
| 189.10 | 215.70 | Rock RQD 98%. | | | | | | | | | |
| 189.10 | 190.60 | keaf, quartz veins. | 18630 | 189.10 | 190.60 | 1.50 | 1-3 | 1.37 | n/a | n/a | 1.37 |
| 190.60 | 192.10 | keaf, quartz veins. | 18631 | 190.60 | 192.10 | 1.50 | TR | 1.03 | n/a | n/a | 1.03 |
| 192.10 | 193.60 | keaf, quartz-carbonate veins. | 18632 | 192.10 | 193.60 | 1.50 | TR | .49 | n/a | n/a | .49 |
| 193.60 | 195.10 | keaf, quartz veins. | 18633 | 193.60 | 195.10 | 1.50 | TR-1 | 1.10 | n/a | n/a | 1.10 |
| 195.10 | 196.60 | keaf, quartz-carbonate veins. | 18634 | 195.10 | 196.60 | 1.50 | TR | 1.23 | n/a | n/a | 1.23 |
| 196.60 | 198.10 | keaf, quartz veins. | 18635 | 196.60 | 198.10 | 1.50 | 0 | .96 | n/a | n/a | .96 |
| 198.10 | 199.60 | keaf, quartz-carbonate veins. | 18636 | 198.10 | 199.60 | 1.50 | 0 | 12.62 | n/a | n/a | 12.62 |
| 199.60 | 201.10 | keaf, quartz veins. | 18637 | 199.60 | 201.10 | 1.50 | TR-1 | .21 | n/a | n/a | .21 |
| 201.10 | 202.60 | keaf, quartz veins, locally silicified. | 18638 | 201.10 | 202.60 | 1.50 | 2-4 | 1.85 | n/a | n/a | 1.85 |
| 202.60 | 204.10 | keaf, quartz veins. | 18639 | 202.60 | 204.10 | 1.50 | 1-2 | 1.37 | n/a | n/a | 1.37 |
| 204.10 | 205.60 | keaf, quartz veins. | 18640 | 204.10 | 205.60 | 1.50 | 1 | 1.10 | n/a | n/a | 1.10 |
| 205.60 | 207.10 | keaf, quartz veins. | 18641 | 205.60 | 207.10 | 1.50 | TR-1 | 1.30 | n/a | n/a | 1.30 |
| 207.10 | 208.60 | keaf, quartz veins. | 18642 | 207.10 | 208.60 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 208.60 | 210.10 | keaf. | 18643 | 208.60 | 210.10 | 1.50 | 0 | 1.03 | n/a | n/a | 1.03 |
| 210.10 | 211.60 | keaf, quartz veins. | 18644 | 210.10 | 211.60 | 1.50 | 0 | .62 | n/a | n/a | .62 |
| 211.60 | 213.10 | keaf. | 18645 | 211.60 | 213.10 | 1.50 | 0 | 1.50 | n/a | n/a | 1.50 |
| 213.10 | 214.60 | keaf, quartz veins. | 18646 | 213.10 | 214.60 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 214.60 | 215.70 | keaf, quartz veins. | 18647 | 214.60 | 215.70 | 1.10 | TR | 2.00 | n/a | n/a | 2.00 |

215.70 217.60 GARNET - BIOTITE SCHIST

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

unit. Phlogopite patchy and disseminated elsewhere.

3 to 5% carbonate stringers, less than or equal to 7 mm, parallel to foliation.

Moderately to well foliated at 37 degrees to the core axis, decreasing rapidly downhole to 22 to 25 degrees to the core axis from 251.0 to 252.0, and then increasing gradually to 47 to 65 degrees to the core axis.

Locally blocky, with intense chlorite development on broken surfaces.

250.40 257.00 Rock RQD 85%.

250.40 251.90 2, character sample.

19680 250.40 251.90 1.50 0 .34 n/a n/a .34

252.60 252.80 Foliation disruption, with formation of a shallow right limb fold (axial plane 63 degrees to the core axis), with considerable carbonate veining and trace chalcopyrite flecks.

257.00 257.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

63.5346
(part 3)

MUSSELWHITE
SURFACE
DRILL LOGS
MUS571 - MUS584

REF COR: 7044.7 6119.6 SURVEYED: YES

PLACER DOME INC.

LOCATION: 29400N 2425W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: NUS571

PROPERTY: NORTHWESTERN ONTARIO
MUSSELUWHITE GRUBSTAKE (1073)

POST LOCATION:

SECTION:

AZIMUTH: 49.3

LENGTH: 257.0

ELEVATION: 5302.5

LOGGED BY: N. BECKETT

DIP: -56.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 05 - 00, 1988

STARTED: MAR. 04, 1988

COMPLETED: MAR. 08, 1988

CLAIM NO:

PURPOSE: TEST ESKER ZONE AT 5185m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -56.0 | 150.00 | | -48.0 |
| 60.00 | | -54.0 | 180.00 | | -45.0 |
| 90.00 | | -52.0 | 210.00 | | -44.0 |
| 120.00 | | -49.0 | 240.00 | | -41.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Av g/t | REBUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|-------------------------------|--|--|--|--|--|--|--|--|--|
| .00 | 21.60 | OVERBURDEN Sand, boulders. | | | | | | | | | |
|-----|-------|-------------------------------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 21.60 | 59.90 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

A volcanic.

Fine grained to medium grained medium grey quartz feldspar
phlogopite volcanic package, with up to 20% brown
phlogopite, disseminated.Also contains 5 to 8% white carbonate, generally as
stringers parallel to foliation.

Well foliated at 43 to 60 degrees to the core axis.

1 to 3% white quartz veins, less than or equal to 5 cm,
parallel to foliation, barren.Trace to 1% garnets less than or equal to 4 mm, locally
developed from 38.0 to.Unit very blocky throughout, with gravelly patches over
10 to 50 cm. Occasional sections characterised by vuggy
cavities, lined with chlorite and carbonate; broken
surfaces usually chloritic.

Trace pyrite as rare rusty flecks, generally in vugs.

Lower contact very poorly defined; phlogopite content
decreases gradually below 56.0, with increasing quartz
feldspar.

21.60 23.30 Rock RQD 0%.

23.30 31.70 Rock RQD 65 to 70%.

26.00 27.50 A volc, 10% white quartz.

31.70 35.40 Rock RQD 15 to 20%.

35.40 42.50 Rock RQD 5%.

| | | | | | | | | |
|-------|-------|-------|------|---|-----|-----|-----|-----|
| 19669 | 26.00 | 27.50 | 1.50 | 0 | .69 | n/a | n/a | .69 |
|-------|-------|-------|------|---|-----|-----|-----|-----|

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|-------|--------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| 42.50 | 55.60 | Gravelly, chloritic. 2.2 m of CORE LOST between 47.0 to 53.0. | | | | | | | | | |
| 42.51 | 55.60 | Rock RQD 0%. | | | | | | | | | |
| 55.60 | 59.90 | Rock RQD 40%. | | | | | | | | | |
| 57.10 | 58.60 | A volc. carbonate veinlets, trace to 1% pyrite stringers. | 19670 | 57.10 | 58.60 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 59.90 | 102.30 | FELSIC TO INTERMEDIATE VOLCANICS A volcanic. Typical fine grained to medium grained light grey quartz feldspar sericite volcanic package. Contains up to 5% yellow white sericite bands, locally developed. 2 to 4% white feldspar crystals, less than or equal to 1.5 mm locally developed parallel to foliation. Unit contains sections up to 70 cm, of more medium composition, with 15 to 20% fine grained phlogopite parallel to foliation. Foliation well developed, parallel to weak compositional banding, at 52 to 55 degrees to the core axis. Rare vuggy cavities, less than or equal to 3 mm, locally developed. Often filled with coarse muscovite books. Trace to 1% pyrite as accessory mineral in some vugs. Moderately blocky, with gravelly patches over 20 to 40 cm. Silver dollar core locally developed. 59.90 68.60 Rock RQD 55 to 60%. 59.90 61.40 A volc, trace pyrite as rusty infilling. 68.60 71.00 Rock RQD 0%. 71.00 74.10 Similar to text but with 35 to 40% sericite bands up to 1.0 cm. Foliation at 53 to 56 degrees to the core axis. 71.01 74.10 Rock RQD 85%. 74.01 80.00 Rock RQD 85 to 90%. 74.10 80.00 Similar to text. 80.00 84.10 Similar to 71.0 to 74.1. Foliation parallel to compositional banding at 55 to 56 degrees to the core axis. 89.01 84.10 Rock RQD 85 to 90%. 84.10 86.30 A volc similar to text but with 5% yellow staurolite crystals < 1 mm to 2 mm. Staurolite crystals are occasionally slightly more coarse grained in sericite bands although abundance is not influenced by sericite compositional banding. Well foliated at 56 to 69 degrees to the core axis. White quartz sericite veins, 50 cm at 86.65 to 87.15, with associated 1% pyrite specks. 84.11 87.30 Rock RQD 70%. | | | | | | | | | |
| 59.90 | 61.40 | A volc, trace pyrite as rusty infilling. | 19671 | 59.90 | 61.40 | 1.50 | 0 | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | AV g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Locally blocky over 10 to 20 cm sections, with rare gravelly patches. | | | | | | | | | |
| 111.50 | 132.10 | Rock RQD 85 to 90%. | | | | | | | | | |
| 111.50 | 113.00 | B-3, 20 cm 2-4e band. | 19675 | 111.50 | 113.00 | 1.50 | 1 | .82 | n/a | n/a | .62 |
| 116.00 | 117.50 | B-3, 60 cm 2-4e band. | 19676 | 116.00 | 117.50 | 1.50 | 3-5 | .27 | n/a | n/a | .27 |
| 128.35 | 129.70 | 2-4e, quartz veins. | 19677 | 128.35 | 129.70 | 1.35 | 5-7 | .17 | n/a | n/a | .17 |
| 132.10 | 133.05 | GARNET - EIDOTITE SCHIST | | | | | | | | | |
| | | 4f. | | | | | | | | | |
| | | 15 to 20% subhedral garnets, 1 to 3 mm, in a poorly foliated biotite matrix. | | | | | | | | | |
| | | Rare quartz-carbonate veins, less than or equal to 8 mm, locally developed, parallel to foliation, with rare traces pyrrhotite flecks. | | | | | | | | | |
| | | Rare chert beds, up to 1.0 cm, with occasional grunerite margins up to 1 mm. | | | | | | | | | |
| | | Poorly foliated with weak compositional banding at 65 to 68 degrees to the core axis. | | | | | | | | | |
| | | Locally developed carbonate filled fracture cleavage at 90 degrees to bedding; less than or equal to 1 mm. | | | | | | | | | |
| 132.10 | 133.05 | Rock RQD 90 to 95%. | | | | | | | | | |
| 132.10 | 133.05 | 4f, occasional quartz veins. | 19678 | 132.10 | 133.05 | .95 | TR | .96 | n/a | n/a | .96 |
| 133.05 | 143.10 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION | | | | | | | | | |
| | | 4ea. | | | | | | | | | |
| | | 50 to 60% moderately to heavily gruneritized 'ea' beds, 0.5 to 10.0 cm wide, with 15 to 20% 0.2 to 1.5 cm subhedral to glomeroporphyritic garnets. | | | | | | | | | |
| | | 3 to 5% poorly gruneritized 'b' beds, less than or equal to 1.0 cm, with 1 to 2% magnetite laminae. | | | | | | | | | |
| | | 3 to 5% 'f' beds, locally developed, less than or equal to 7 cm, with 2 to 3% subhedral garnets up to 1.0 cm. | | | | | | | | | |
| | | Moderately to well bedded at 35 degrees to the core axis, increasing gradually downhole to 62 to 68 degrees to the core axis below 140.0. | | | | | | | | | |
| | | 5 to 8% quartz veins, 1 to 2 cm, sub parallel to bedding, associated with trace to 1% pyrrhotite flecks as in samples | | | | | | | | | |
| | | Locally developed carbonate filled fracture cleavage at 36 to 40 degrees to the core axis. | | | | | | | | | |
| | | Occasional left limb folds, broad, open with axial plane | | | | | | | | | |
| | | 36 to 65 degrees to the core axis. Rare antiform synform pairs with axial plane 41 degrees to the core axis. | | | | | | | | | |
| 133.05 | 143.10 | Fock RQD 100%. | | | | | | | | | |
| 133.05 | 134.55 | 4ea, quartz rare. | 19679 | 133.05 | 134.55 | 1.50 | TR | 1.85 | n/a | n/a | 1.85 |
| 134.55 | 136.05 | 4ea. | 19680 | 134.55 | 136.05 | 1.50 | TR | .96 | n/a | n/a | .96 |
| 136.05 | 137.55 | 4ea, quartz veins. | 19681 | 136.05 | 137.55 | 1.50 | TR | 1.03 | n/a | n/a | 1.03 |
| 137.55 | 139.05 | 4ea, quartz veins. | 19682 | 137.55 | 139.05 | 1.50 | TR-1 | .75 | n/a | n/a | .75 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|------|--------|---------|
| 139.05 | 140.55 | 4ea(f), quartz-carbonate veins. | 19683 | 139.05 | 140.55 | 1.50 | 0 | .21 | n/a | n/a | .21 |
| 139.30 | 139.50 | Crosscutting fracture cleavage at 85 to 89 degrees to bedding; up to 1 mm dextral offset. | | | | | | | | | |
| 142.05 | 143.10 | 4ea(b), quartz-carbonate veins. | 19685 | 142.05 | 143.10 | 1.05 | 0 | .96 | n/a | n/a | .96 |
| 142.05 | 142.05 | 4ea. | 19684 | 140.55 | 142.05 | 1.50 | 0 | 1.23 | n/a | n/a | 1.23 |
| 143.10 | 149.10 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4eaf. Similar to 133.05, but with 20 to 25% moderately chloritized 'f' beds, less than or equal to 6 cm. 3 to 5% 'b' beds in upper 6 m, moderately to heavily gruneritized, increasing to 10 to 15% from 140.5 to 152.0, with rare mottled magnetite in grunerite texture. 5 to 8% quartz veins, locally developed up to 20 cm, associated with trace to 1%, locally 2 to 4% pyrrhotite as veinlets and stringers. Generally well bedded at 46 to 61 degrees to the core axis. Occasional right limb folds, broad, open with fold axes 64 to 69 degrees to the core axis. Antiformal fold closure at 144.7, with axial plane 84 degrees to the core axis. 143.10 149.10 Rock RQD 100%. 143.10 144.60 4fea. 144.60 146.10 4eaf. 146.10 147.60 4eaf, 20 cm quartz veins. 147.60 149.10 4ea(b), quartz-carbonate veins. | 19686 | 143.10 | 144.60 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| | | | 19687 | 144.60 | 146.10 | 1.50 | 0 | .80 | n/a | n/a | .80 |
| | | | 19688 | 146.10 | 147.60 | 1.50 | 2-4 | 0.32 | n/a | n/a | 0.32 |
| | | | 19689 | 147.60 | 149.10 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 149.10 | 153.60 | GARNET-BIOTITE SCHIST / CHELT-MAGNETITE-GARNET-AMPHIBOLE I.F. 4fba. 40 to 45% poorly to moderately chloritized 'f' beds, less than or equal to 3.0 cm, interbanded with 40 to 45% heavily gruneritized 'b' beds, less than or equal to 1.0 cm, carrying up to 15% magnetite, disseminated. 10 to 15% heavily gruneritized 'e' beds, less than or equal to 1.5 cm, locally developed, but increasing abundance downhole. Well bedded at 53 to 66 degrees to the core axis. Rare blue quartz veins, less than or equal to 3.0 cm, sub parallel to bedding, generally best developed in association with 'e' beds. Quartz veins barren. 149.10 153.60 Rock RQD 100%. 149.10 150.60 4fba. 150.60 152.10 4fba. | 19690 | 149.10 | 150.60 | 1.50 | 0 | 1.44 | n/a | n/a | 1.44 |
| | | | 19691 | 150.60 | 152.10 | 1.50 | 0 | 1.23 | n/a | n/a | 1.23 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: N05571
PAGE NO: 11

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH 90 Av g/t RERUN REJECT AVERAGE

250.30 257.00 Rock RQ0 80 to 85%.

257.00 257.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Sp. Av g/t RERUN REJECT AVERAGE

223.75 238.40 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.

Similar to 152.3.

'b' beds generally poorly gruneritized; grunerite, 20%, occurs as 1 to 4 mm laminae at contact of 'b' and chert beds.

Well bedded on a 0.5 to 1.0 cm scale, with bedding at 75 to 85 degrees to the core axis.

Locally developed fracture cleavage at 30 degrees to the core axis, increasing to 51 to 71 degrees to the core axis downhole; fracture cleavage orientation < bedding angle.

Fare broad, open left limb folds, with axial plane approx 63 degrees to the core axis.

Shallow right limb fold at 233.1, with axial plane 74 degrees to the core axis.

Shallow right limb fold at 236.7 to 237.3, with axial plane 63 degrees to the core axis.

Rare carbonate-quartz veins, less than or equal to 1.0 cm, barren.

NB: this unit resembles a '4z' (zebra unit).

Core locally blocky, with breakage along grunerite planes; pieces 3 to 5 cm long.

223.75 238.40 Rock RQD 85 to 90%.

223.75 225.25 4ba, character sample.

228.50 236.00 4ba, character sample.

233.00 234.50 4ba, character sample.

236.90 238.40 4ba, character sample.

| | | | | | | | | |
|-------|--------|--------|------|---|------|-----|-----|------|
| 20582 | 223.75 | 225.25 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 20583 | 228.50 | 230.00 | 1.50 | 0 | .40 | n/a | n/a | .40 |
| 20584 | 233.00 | 234.50 | 1.50 | 0 | 1.70 | n/a | n/a | 1.70 |
| 20585 | 236.90 | 238.40 | 1.50 | 0 | .02 | n/a | n/a | .02 |

238.40 247.70 CHERT - MAGNETITE IRON FORMATION

4b.

Unusual unit, composed of 20 to 25% 'b' beds, less than or equal to 1.0 cm, with up to 5% magnetite laminae.

80% Black very hard, aphanitic to very fine grained bands up to 20 cm wide, non magnetic, with black green streak; rare crystals prismatic with vitreous faces. Hornblende. Bands also contain up to 1% carbonate specks and blebs up to 2 mm.

5 to 7% magnetite poor chert beds, less than or equal to 1.5 cm, locally boudinaged.

3 to 5% garnet poor biotite beds, less than or equal to 5 mm, locally developed.

1 to 3% pyrrhotite, locally 5 to 7%, as veinlets and stringers, and occasionally as poorly developed sulphide replacement in biotite beds.

Well bedded at 50 to 73 degrees to the core axis.

Considerable small folds throughout unit, generally right

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | limb, with axial plane 49 to 70 degrees to the core axis. Broad, open left limb fold at 244.7, with axial plane 44 degrees to the core axis. | | | | | | | | | |
| | | 238.40 247.70 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 238.40 239.90 lb. | 20586 | 238.40 | 239.90 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| | | 239.90 241.40 lb, carbonate-quartz veinlets. | 20587 | 239.90 | 241.40 | 1.50 | 2-4 | .27 | n/a | n/a | .27 |
| | | 241.40 242.90 lb. | 20588 | 241.40 | 242.90 | 1.50 | 1-3 | .08 | n/a | n/a | .08 |
| | | 242.15 242.35 Similar to text, but carries up to 10% carbonate as fracture infilling; crystals up to 3 mm. Fractures locally still open, associated with brecciated chert fragments. | | | | | | | | | |
| | | 242.90 244.40 lb. | 20589 | 242.90 | 244.40 | 1.50 | 1-3 | .73 | n/a | n/a | .73 |
| | | 244.40 245.90 lb. | 20590 | 244.40 | 245.90 | 1.50 | 5-8 | .82 | n/a | n/a | .82 |
| | | 245.90 246.90 lb. | 20591 | 245.90 | 246.90 | 1.00 | 5-8 | .27 | n/a | n/a | .27 |
| | | 246.70 247.70 Chert component rises to 35 to 40%, developed throughout unit. Also up to 10% grunerite imparting a yellow cast to unit. 3 to 5% garnet, 1 to 3 mm in poorly developed garnet grunerite bands up to 4 mm wide. | | | | | | | | | |
| | | 246.90 247.70 lb. | 20592 | 246.90 | 247.70 | .80 | 5-7 | .64 | n/a | n/a | .64 |
| 247.70 | 266.85 | TREMOLITE / CHLORITE NG BASALT ld. Similar to 173.2. Moderately to well foliated at 51 degrees to the core axis, increasing to 70 degrees to the core axis at 253.8, and then decreasing to 40 degrees to the core axis at lower contact. Blocky over 10 to 50 cm sections, with rare gravelly chloritic patches up to 10 cm. | | | | | | | | | |
| | | 247.70 266.85 Rock RQD 80%. | | | | | | | | | |
| | | 247.70 249.20 ld, character sample. | 20593 | 247.70 | 249.20 | 1.50 | 0 | .00 | n/a | n/a | .00 |
| | | 265.38 266.85 ld, character sample. | 20594 | 265.38 | 266.85 | 1.47 | 0 | .01 | n/a | n/a | .01 |
| 266.85 | 271.90 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST bbf. Similar to 1N4.6, but beds 2 to 4 mm wide. Magnetite poor chert beds less than or equal to 20%, up to 9 mm wide, locally boudinaged. Well bedded at 53 to 64 degrees to the core axis. 5 to 10% pyrrhotite, locally to 15%, as intense sulphide replacement of magnetite and occasional pyrrhotite veinlets up to 3 mm parallel to bedding. | | | | | | | | | |
| | | 266.85 271.90 Rock RQD 100%. | | | | | | | | | |
| | | 266.85 268.35 bbf. | 20595 | 266.85 | 268.35 | 1.50 | 5-10 | .53 | n/a | n/a | .53 |
| | | 268.35 269.85 bbf. | 20596 | 268.35 | 269.85 | 1.50 | 15 | .01 | n/a | n/a | .01 |
| | | 269.85 270.85 bbf. | 20597 | 269.85 | 270.85 | 1.00 | 5-10 | .42 | n/a | n/a | .42 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | REBUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 270.85 | 271.90 | Abf. | 20588 | 270.85 | 271.90 | 1.05 | 5-10 | .55 | n/a | n/a | .55 |
| 271.90 | 273.60 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. Similar to 152.3. Laminated to thinly bedded at 63 to 66 degrees to the core axis. 2 to 4% quartz-carbonate veins up to 3 cm, locally developed. 271.90 273.60 Rock RQD 100%. | | | | | | | | | |
| 271.90 | 272.90 | 4ba, character sample. | 20589 | 271.90 | 272.90 | 1.00 | 0 | .82 | n/a | n/a | .82 |
| 272.90 | 273.60 | 4ba, character sample. | 20600 | 272.90 | 273.60 | .70 | 0 | .41 | n/a | n/a | .41 |
| 273.60 | 283.55 | BASALT 2. Fine grained to medium grained medium green brown amphibole feldspar volcanic package, with up to 15% phlogopite disseminated, and as seams up to 1 mm. Large hornblende crystals rare (<3%), but up to 3 mm long where present. Well foliated at 64 to 72 degrees to the core axis. 273.60 283.55 Rock RQD 95%. | | | | | | | | | |
| 273.60 | 275.10 | 2, character sample. | 20601 | 273.60 | 275.10 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| 282.05 | 283.55 | 2, character sample. | 20602 | 282.05 | 283.55 | 1.50 | 0 | .34 | n/a | n/a | .34 |
| 283.55 | 284.55 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. Similar to 152.3, but with 3 to 4% sillimanite, locally developed as sheaves up to 8 mm long. Well bedded at 74 to 75 degrees to the core axis. 5% White quartz-carbonate veins, poorly developed, barren. Poorly developed fracture cleavage at approx 88 degrees to the core axis. 283.55 284.55 Rock RQD 98%. | | | | | | | | | |
| 283.55 | 284.55 | 4ba, quartz-carbonate veins. | 20603 | 283.55 | 284.55 | 1.00 | 0 | .41 | n/a | n/a | .41 |
| 284.55 | 295.00 | BASALT 2. Similar to 273.6. Well foliated at 79 degrees to the core axis, decreasing gradually downhole to 62 degrees to the core axis at END OF HOLE. 284.55 286.05 2, character sample. 285.55 295.00 Rock RQD 80 to 95%. | | | | | | | | | |
| 284.55 | 286.05 | 2, character sample. | 20604 | 284.55 | 286.05 | 1.50 | 0 | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

295.00 295.00 END OF HOLE

CORE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|-------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | Contains 10 to 15% phlogopite, generally as bands 1 to 8 mm 5 to 10% carbonate stringers less than or equal to 2 mm, parallel to foliation. Rare chert bands less than or equal to 3 mm, locally developed parallel to foliation. Rare poorly developed sericite beds, less than or equal to 1 mm. Well foliated with moderate compositional banding at 56 to 59 degrees to the core axis. Trace pyrite as rare skins on some fracture surfaces. Locally blocky over 10 to 35 cm, with chlorite developed on broken surfaces. 43.80 67.90 Rock RQD 85 to 90%. 56.00 56.30 Quartz-carbonate vein with trace pyrrhotite veinlets. 55.00 56.50 B volc, quartz-carbonate vein. | 19733 | 56.00 | 56.50 | .50 | TR | .01 | n/a | n/a | .01 |
| 67.90 | 140.90 | FELSIC TO INTERMEDIATE VOLCANICS A volcanic. Similar to 25.1. Upper contact gradational over 2 m, with decreasing amphibole. Sericitic content 5 to 10% as sericitic zones 1 to 2 m wide. Less than or equal to 5% phlogopite in sections up to 1.7 m Well foliated at 48 to 60 degrees to the core axis. Trace pyrite blebs, locally developed. 67.90 71.00 Rock RQD 80%. 71.00 75.00 Rock RQD 60 to 65%. 75.00 104.50 Rock RQD 85 to 90%. 102.50 104.00 A volc, 1 to 2% pyrite veinlets. 104.50 108.05 Similar to text, but fractured and bracciated with local intense carbonate developed, especially from 105.7 to 106.6 ; also moderate potassic alteration in this area; FAULT ZONE. Associated with 1 to 3% pyrite veinlets and skins. 104.50 106.00 A volc, 1 to 3% pyrite. 104.51 108.05 Rock RQD 50%. 106.90 107.00 A volc, 2 to 4% pyrite veinlets and stringers 107.00 108.05 A volc, trace pyrite. 108.05 132.90 Similar to text, foliated at 62 to 63 degrees to the core axis. 2 to 4% pyrite locally developed as veinlets less than or equal to 2 mm. Mafic wedge at 115.36 to 115.5. 108.06 132.90 Rock RQD 85 to 90%. 113.50 115.00 A volc, 2 to 4% pyrite. 115.00 116.50 A volc, 3 to 5% pyrite. | 19734 | 102.50 | 104.00 | 1.50 | 0 | .20 | n/a | n/a | .20 |
| | | | 19735 | 104.50 | 106.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | | 19736 | 106.00 | 107.00 | 1.00 | 0 | .69 | n/a | n/a | .69 |
| | | | 19737 | 107.00 | 108.05 | 1.05 | 0 | .01 | n/a | n/a | .01 |
| | | | 19738 | 113.50 | 115.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | | 19739 | 115.00 | 116.50 | 1.50 | 0 | .20 | n/a | n/a | .20 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | 30 to 35% green B volcanic material. | | | | | | | | | |
| | | 3 to 5% carbonate, as veinlets less than or equal to 2 mm, parallel to foliation, and occasionally disseminated resulting in bleached core. | | | | | | | | | |
| | | Well foliated at 58 to 65 degrees to the core axis. | | | | | | | | | |
| | | Rare bands of 2-4e material, carrying 1 to 2% white quartz veins, and trace to 1% pyrrhotite flecks and blebs. | | | | | | | | | |
| | | 153.70 161.15 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 158.15 159.65 B-3, character sample. | 19746 | 158.15 | 159.65 | 1.50 | 0 | .62 | n/a | n/a | .62 |
| | | 159.65 161.15 E-3, 2-4e, quartz veins. | 19747 | 159.65 | 161.15 | 1.50 | 1-2 | 1.64 | n/a | n/a | 1.64 |
| 161.15 | 166.80 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. | | | | | | | | | |
| | | Upper contact poorly defined, consisting of a series of intercalated volcanics and 'ea' material. | | | | | | | | | |
| | | 40 to 45% moderately gruneritized 'ea' beds, 0.3 to 0.8 cm, with 15 to 20% subhedral to glomeroporphyritic garnets up to 4.0 cm. | | | | | | | | | |
| | | 20 to 25% garnet poor amphibole beds, less than or equal to 6 mm. | | | | | | | | | |
| | | 25 to 30% quartz, generally as silicified zone associated with moderate to intense bedding disruption, but locally as veins up to 1.0 cm. | | | | | | | | | |
| | | Quartz associated with 5 to 8%, locally to 10% pyrrhotite as well developed sulphide cement and occasional veinlets. Also trace to 1% pyrite, locally developed. | | | | | | | | | |
| | | Rare carbonate veinlets, less than or equal to 2 mm, locally developed. | | | | | | | | | |
| | | Moderately bedded at 56 to 67 degrees to the core axis. | | | | | | | | | |
| | | Foliation in volcanic material parallel to bedding. | | | | | | | | | |
| | | 161.15 166.80 Rock RQD 100%. | | | | | | | | | |
| | | 161.15 162.15 4ea-B, silicified, 1 to 3% pyrite. | 19748 | 161.15 | 162.15 | 1.00 | 3-5 | 1.10 | n/a | n/a | 1.10 |
| | | 162.15 163.15 4ea, silicified. | 19749 | 162.15 | 163.15 | 1.00 | 5-8 | 2.22 | n/a | n/a | 2.22 |
| | | 163.15 164.15 4ea, silicified. | 19750 | 163.15 | 164.15 | 1.00 | 5-10 | 5.32 | n/a | n/a | 5.32 |
| | | 164.15 165.15 4ea, silicified. | 19751 | 164.15 | 165.15 | 1.00 | 5-8 | 1.64 | n/a | n/a | 1.64 |
| | | 165.15 166.15 4ea, silicified. | 19752 | 165.15 | 166.15 | 1.00 | 5-10 | 2.26 | n/a | n/a | 2.26 |
| | | 167.15 166.30 4ea, quartz veins. | 19753 | 166.15 | 166.80 | .65 | 2-4 | .55 | n/a | n/a | .55 |
| 166.80 | 169.50 | GARNET - BIOTITE SCHIST 4f. | | | | | | | | | |
| | | 25 to 30% 1 to 3 mm subhedral garnets in a well laminated biotite matrix. | | | | | | | | | |
| | | 3 to 5% white carbonate stringers parallel to bedding. | | | | | | | | | |
| | | Laminated at 61 to 72 degrees to the core axis. | | | | | | | | | |
| | | Locally blocky, with silver dollar core over 10 cm sections | | | | | | | | | |
| | | 166.80 169.50 Rock RQD 85%. | | | | | | | | | |
| | | 168.80 169.30 4f, 1% pyrite stringers. | 19754 | 168.80 | 169.30 | 1.50 | TR-1 | .20 | n/a | n/a | .20 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | RPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 168.30 | 169.50 | 4f, 2% quartz veins. | 19755 | 168.30 | 169.50 | 1.20 | TR-1 | .20 | n/a | n/a | .20 |
| 169.50 | 180.50 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ea. Similar to 161.15. 5 to 8% 'f' beds, locally developed, with 1 to 3% pinhead garnets. 2 to 4% 'b' beds, weakly gruneritized, locally developed in lower half of unit. Grunerite content increases to 20 to 25% below 179.0. Moderately bedded at 49 to 61 degrees to the core axis. 25 to 30% blue quartz, generally as silicified zones over 25 to 50 cm sections. Quartz associated with well developed sulphide cement and sulphide stringers ; more rarely as sulphide replacement of amphibole. | | | | | | | | | |
| 169.50 | 180.50 | Rock RQD 100%. | | | | | | | | | |
| 169.50 | 170.50 | 4ea, quartz veins, locally silicified. | 19756 | 169.50 | 170.50 | 1.00 | 1-2 | .86 | n/a | n/a | .96 |
| 170.50 | 171.50 | 4ea, silicified, quartz veins. | 19757 | 170.50 | 171.50 | 1.00 | 5-7 | 3.06 | n/a | n/a | 3.06 |
| 171.50 | 172.50 | 4ea, quartz veins. | 19758 | 171.50 | 172.50 | 1.00 | 3-5 | 2.40 | n/a | n/a | 2.40 |
| 172.50 | 173.50 | 4ea, quartz veins. | 19759 | 172.50 | 173.50 | 1.00 | 2-4 | .75 | n/a | n/a | .75 |
| 173.50 | 174.50 | 4ea, silicified, quartz veins. | 19760 | 173.50 | 174.50 | 1.00 | 5-8 | 23.47 | n/a | n/a | 23.47 |
| 174.50 | 175.50 | 4ea, silicified. | 19761 | 174.50 | 175.50 | 1.00 | 2-4 | 7.00 | n/a | n/a | 7.00 |
| 175.50 | 176.50 | 4ea, silicified, quartz veins. | 19762 | 175.50 | 176.50 | 1.00 | 5-10 | 26.24 | n/a | n/a | 26.24 |
| 176.50 | 177.50 | 4ea, silicified. | 19763 | 176.50 | 177.50 | 1.00 | 5-7 | 7.36 | n/a | n/a | 7.36 |
| 177.50 | 178.50 | 4eaf, quartz veins. | 19764 | 177.50 | 178.50 | 1.00 | 1-3 | 5.14 | n/a | n/a | 5.14 |
| 178.50 | 179.50 | 4ea, quartz rare, heavily gruneritized. | 19765 | 178.50 | 179.50 | 1.00 | 1 | 2.47 | n/a | n/a | 2.47 |
| 179.50 | 180.50 | 4ea(f), quartz rare, heavily gruneritized. | 19766 | 179.50 | 180.50 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 180.50 | 182.00 | CHELT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4b3(f). 40 to 50% heavily gruneritized 'b' beds, as broad diffuse bands up to 1.0 cm. 25 to 30% poorly developed garnet poor biotite beds, 2 to 8 mm, moderately chloritized. 10 to 15% poorly developed amphibole beds, rarely garnetiferous, up to 9 mm. 5% Carbonate veins, less than or equal to 0.9 cm, parallel to fold axes. Well bedded at 63 to 65 degrees to the core axis. Rare antiform-synform pairs or left limb folds, broad, open with axial plane 47 to 58 degrees to the core axis. Locally blocky, chloritic, with carbonate infilling over 20 to 25 cm. | | | | | | | | | |
| 180.50 | 182.00 | Rock RQD 75 to 80%. | | | | | | | | | |
| 180.50 | 181.50 | 4b3f. | 19767 | 180.50 | 181.50 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 181.50 | 182.00 | 4b3f. | 19768 | 181.50 | 182.00 | .50 | 0 | .27 | n/a | n/a | .27 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 182.00 | 188.75 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION 4ea. Similar to 181.15. Poorly to moderately bedded at 58 to 65 degrees to the core axis. 25 to 30% grunerite throughout unit; unit more heavily gruneritized than material uphole. 25 to 30% blue quartz, generally as silicified zones up to 70 cm, with moderate to intense bedding disruption; also locally as veins up to 7 mm sub parallel to bedding. Quartz associated with pyrrhotite as weakly developed sulphide cement and occasional veinlets. NB: this unit is not visually as attractive as units uphole - grunerite content too high. Moderately blocky throughout, locally gravelly, with considerable chlorite developed on broken surfaces. | | | | | | | | | |
| 182.00 | 188.75 | Rock RQD 75%. | | | | | | | | | |
| 182.00 | 183.00 | 4ea, quartz veins. | 19769 | 182.00 | 183.00 | 1.00 | 3-5 | 4.48 | n/a | n/a | 4.48 |
| 183.00 | 184.00 | 4ea, quartz veins, locally silicified. | 19770 | 183.00 | 184.00 | 1.00 | 1-2 | 3.43 | n/a | n/a | 3.43 |
| 184.00 | 195.00 | 4ea, silicified. | 19771 | 184.00 | 185.00 | 1.00 | 3-5 | 6.58 | n/a | n/a | 6.58 |
| 195.00 | 196.00 | 4ea, silicified, quartz veins. | 19772 | 185.00 | 186.00 | 1.00 | 1-2 | .96 | n/a | n/a | .96 |
| 186.00 | 187.00 | 4ea, quartz veins, locally silicified. | 19773 | 186.00 | 187.00 | 1.00 | TR-1 | 3.02 | n/a | n/a | 3.02 |
| 186.60 | 188.40 | Occasional antiform-synform pairs, with axial plane 78 degrees to the core axis. | | | | | | | | | |
| 187.00 | 188.00 | 4ea, silicified. | 19774 | 187.00 | 188.00 | 1.00 | 1-2 | 2.33 | n/a | n/a | 2.33 |
| 188.00 | 188.75 | 4ea, silicified. | 19775 | 188.00 | 188.75 | .75 | TR-1 | 3.56 | n/a | n/a | 3.56 |
| 188.75 | 191.00 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fa. 35 to 40% 'f' beds, 0.5 to 8.0 cm, with 10 to 15% 1 to 2 mm pinhead garnets. 35 to 40% heavily gruneritized 'b' beds, 0.3 to 3.0 cm, with up to 5% disseminated magnetite, rarely as laminae. 5 to 8% 'e' beds, locally developed, less than or equal to 1.2 cm, with 1 to 3% subhedral garnets up to 3 mm. Well bedded at 65 degrees to the core axis. Trace to nil sulphides associated with rare quartz-carbonate veins, less than or equal to 8 mm parallel to bedding. Considerable folding throughout unit, broad, open, with axial plane 81 to 83 degrees to the core axis; folds are left limb with occasional antiform-synform pairs. | | | | | | | | | |
| 188.75 | 191.00 | Rock RQD 80 to 85%. | | | | | | | | | |
| 188.75 | 189.75 | 4fba. | 19776 | 188.75 | 189.75 | 1.00 | TR | .62 | n/a | n/a | .62 |
| 189.75 | 191.00 | 4fba. | 19777 | 189.75 | 191.00 | 1.25 | 0 | .01 | n/a | n/a | .01 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MUS573
PAGE NO: 1

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %o | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | 1.5 cm, sub parallel to bedding, associated with trace to nil sulphides. | | | | | | | | | |
| | | 197.70 202.95 Fock RQD 95 to 98%. | | | | | | | | | |
| | | 197.70 199.20 kfea. | 19783 | 197.70 | 199.20 | 1.50 | TR | .20 | n/a | n/a | .20 |
| | | 198.60 198.70 Left limb fold, axial plane 75 degrees to the core axis. | | | | | | | | | |
| | | 199.00 202.95 Right limb, fold axes 77 to 86 degrees to the core axis. | | | | | | | | | |
| | | 199.20 200.70 kfea, quartz-carbonate veins. | 19784 | 199.20 | 200.70 | 1.50 | TR-1 | 1.10 | n/a | n/a | 1.10 |
| | | 200.70 202.20 kfea, quartz-carbonate veins. | 19785 | 200.70 | 202.20 | 1.50 | TR | .27 | n/a | n/a | .27 |
| | | 202.20 202.95 kfea. | 19786 | 202.20 | 202.95 | .75 | TR | .41 | n/a | n/a | .41 |

202.95 211.80 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE

I.F.

k(a)(b).

Similar to 182.0, but unit contains 10 to 15% heavily gruneritized 'b' beds, 0.4 to 1.2 cm. with 2 to 4% disseminated magnetite.

5 to 10% 'f' beds, less than or equal to 1.0 cm, with 2 to 4% subhedral garnets up to 4 mm. 'f' beds increase in abundance downhole.

Moderately to well bedded at 64 to 69 degrees to the core axis.

Blue quartz generally as well defined veins, less than or equal to 3.5 cm, sub parallel to bedding, but with local bedding disruption.

Quartz associated with pyrrhotite as occasional flecks, but locally developed as weak sulphide cement and sulphide replacement of amphibole.

Synformal fold closure at 205.3, with axial plane 51 degrees to the core axis.

Occasional broad, open right limb folds from 207.5 to 209.0, with axial plane 65 to 76 degrees to the core axis.

Rare carbonate as stringers less than or equal to 1 mm parallel to fold axes at approx 65 degrees to the core axis. Locally blocky with gravelly chloritic patches over 10 cm.

202.95 211.80 Rock RQD 90%.

202.95 204.45 k(a)(b), quartz veins.

19787 202.95 204.45 1.50 1-3 .68 n/a n/a .68

204.45 205.95 k(a)(b), quartz veins, silicified.

19788 204.45 205.95 1.50 TR-1 .96 n/a n/a .96

205.95 207.45 k(a)(b), quartz veins, locally silicified.

19789 205.95 207.45 1.50 2-4 0.91 n/a n/a 0.91

207.45 208.95 k(a)(f), quartz-carbonate veins.

19790 207.45 208.95 1.50 TR-1 2.06 n/a n/a 2.06

208.95 210.45 k(a), silicified, quartz veins.

19791 208.95 210.45 1.50 5-7 3.72 n/a n/a 3.72

210.45 211.80 k(a), quartz veins.

19792 210.45 211.80 1.35 1-3 2.26 n/a n/a 2.26

217.20 GARNET - BIGTITE SCHIST

k(f).

Similar to 166.0.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 248.10 | 249.60 | 4ba, quartz veins. | 19817 | 248.10 | 249.60 | 1.50 | 3-5 | 4.66 | n/a | n/a | 4.66 |
| 249.60 | 251.00 | 4ba, quartz veins. | 19818 | 249.60 | 251.00 | 1.40 | 5-7 | 1.78 | n/a | n/a | 1.78 |
| 251.00 | 253.00 | GARNET - BIOTITE SCHIST 4f. Similar to 237.3. Well bedded at 44 to 50 degrees to the core axis. Considerable folding, generally left limb with occasional antiform-synform pairs, axial plane 40 to 45 degrees to the core axis. 251.00 253.00 Rock RQD 100%. | | | | | | | | | |
| 251.00 | 252.00 | 4f, character sample. | 19819 | 251.00 | 252.00 | 1.00 | TR-1 | .75 | n/a | n/a | .75 |
| 252.00 | 253.00 | 4f, character sample. | 19820 | 252.00 | 253.00 | 1.00 | 0 | .82 | n/a | n/a | .82 |
| 253.00 | 254.30 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba(h). Similar to 248.1. Well bedded at 58 to 62 degrees to the core axis. 10% Pyrrhotite as intense sulphide replacement of magnetite in 'b' beds. 253.00 254.30 Rock RQD 100%. | | | | | | | | | |
| 253.00 | 254.30 | 4ba(h). | 19821 | 253.00 | 254.30 | 1.30 | 10 | .62 | n/a | n/a | .62 |
| 254.30 | 256.65 | GARNET - BIOTITE SCHIST 4f. Similar to 237.3. Well bedded at 30 to 39 degrees to the core axis. Rare pyrrhotite veinlets parallel to bedding, less than or equal to 2 mm. 254.30 256.65 Rock RQD 95%. | | | | | | | | | |
| 254.30 | 255.30 | 4f, character sample. | 19822 | 254.30 | 255.30 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 255.30 | 256.65 | 4f. | 19823 | 255.30 | 256.65 | 1.35 | 1-2 | .01 | n/a | n/a | .01 |
| 256.65 | 259.55 | GARNET-AMPHIBOLE I.F. / GARNET-BIOTITE SCHIST 4ef. 40% Poorly developed 'e' beds, less than or equal to 1.0 cm, with up to 15% 1 to 4 mm subhedral garnets. 40% 'f' beds, poorly chloritized, up to 3.0 cm, with 10 to 15% pinhead garnets up to 1 mm. 15 to 20% white quartz-carbonate veins, 0.5 to 2.4 cm, parallel to bedding, barren. Well bedded at 37 to 41 degrees to the core axis. 256.65 259.55 Rock RQD 90%. | | | | | | | | | |
| 256.65 | 258.15 | 4ef, quartz-carbonate veins. | 19824 | 256.65 | 258.15 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 258.15 | 259.55 | 4ef, quartz-carbonate veins. | 19825 | 258.15 | 259.55 | 1.40 | 0 | .96 | n/a | n/a | .96 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5573
PAGE NO: 15

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 6567.0 6939.1 SURVEYED: YES

PLACER DOME INC.

LOCATION: 14+00N 4+35W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: NUS57A
PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1973)
SECTION:

POST LOCATION:

AZIMUTH: 49.0

LENGTH: 455.0

ELEVATION: 5302.5

LOGGED BY: P. GERTZBEIN, M. BECKETT AND R. STEWART

DIP: -63.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 6 - 13, 1988

STARTED: MAR 5, 1988

COMPLETED: MARCH 12, 1988

CLAIM NO:

PURPOSE: TEST T MAIN ZONE AT 4965m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 13.00 | | -64.5 | 240.00 | | -54.0 |
| 26.00 | | -63.5 | 270.00 | | -54.0 |
| 35.00 | | -62.5 | 300.00 | | -54.0 |
| 60.00 | | -61.0 | 330.00 | | -53.0 |
| 90.00 | | -60.0 | 360.00 | | -53.0 |
| 120.00 | | -59.0 | 390.00 | | -53.0 |
| 150.00 | | -57.0 | 420.00 | | -53.0 |
| 180.00 | | -54.0 | 450.00 | | -52.0 |
| 210.00 | | -54.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|--|--|--|--|--|--|--|--|--|--|
| .00 | 16.00 | OVERBURDEN | | | | | | | | | |
| | | Mainly sand with 1.0m boulder at 5.5m. | | | | | | | | | |

| | | | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| 16.00 | 39.85 | FELSIC TO INTERMEDIATE VOLCANICS | | | | | | | | | |
|-------|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

A.

Typical, fine grained light grey quartz feldspar white mica assemblage.

Weak to locally well developed compositional banding imparted by bleached quartz sericite bands.

Up to 5% quartz carbonate tourmaline veins associated with compositionally banded segments.

Medium grained to coarse grained muscovite commonly developed around vein margins.

Rare euhedral pyrite stringers parallel to foliation.

Medium grained phlogopite segment with up to 5% mm sized gt from 25.65 to 26.7 m.

16.00 39.85 Rock RQD 75%.

16.00 33.00 Foliation well developed at 20 to 28 degrees to the core axis.

33.00 39.85 Foliation well developed at 35 to 40 degrees to the core axis.

38.85 39.85 A pyrrhotite stringer @ 39.70 m.

| | | | | | | | | |
|-------|-------|-------|------|---|-----|-----|-----|-----|
| 21052 | 38.85 | 39.85 | 1.00 | 1 | .20 | n/a | n/a | .20 |
|-------|-------|-------|------|---|-----|-----|-----|-----|

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | colouration. Carbonate phlogopite enrichment tends to occur around quartz veins. Overall 10% quartz and/or quartz pyrrhotite veins scattered throughout. Foliation commonly 40 to 55 degrees to the core axis, locally foliation decreases to 30 degrees to the core axis. Pyrrhotite content detailed below. | | | | | | | | | |
| 186.25 | 197.00 | Rock RQD 100%. | | | | | | | | | |
| 186.25 | 187.75 | B volc. | 25975 | 186.25 | 187.75 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 192.60 | 194.70 | 2-4a 15% 0.5 to 1.0 cm magnetite poor chert beds with weakly gruneritized margins interbedded with pale green mafic as described in text 3 to 5% fine grained pyrrhotite associated with glassy blue quartz veins. Compositional banding at 55 degrees to the core axis varies around right limb minor folds with axial plane at 50 degrees to the core axis. | | | | | | | | | |
| 192.60 | 193.65 | 2-4a. | 21083 | 192.60 | 193.65 | 1.05 | 3-5 | 2.00 | n/a | n/a | 2.00 |
| 193.65 | 194.70 | 2-4a. | 21064 | 193.65 | 194.70 | 1.05 | 2-3 | 0.36 | n/a | n/a | 0.36 |
| 194.70 | 196.20 | B. | 21065 | 194.70 | 196.20 | 1.50 | 0 | .34 | n/a | n/a | .34 |
| 196.20 | 197.70 | B with 10% quartz pyrrhotite veins. | 21066 | 196.20 | 197.70 | 1.50 | 3 | 2.74 | n/a | n/a | 2.74 |
| 197.00 | 200.00 | Rock RQD 100%. | | | | | | | | | |
| 197.70 | 199.20 | B with 5 to 10% quartz pyrrhotite veins. | 21067 | 197.70 | 199.20 | 1.50 | 1-2 | 1.92 | n/a | n/a | 1.92 |
| 206.50 | 208.00 | B volc. | 25928 | 206.50 | 208.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 208.00 | 211.90 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST leaf. 35% Moderately developed 'ea' beds with 3 to 5 mm garnets forming glomeroporphyritic masses supported by intensely gruneritized matrix. 15% Garnets poor hornblende beds typically <0.5 cm locally hornblende altered to chlorite. Interbedded with 25% magnetite poor chert beds and 10% 'f' beds. 'f' component increases to 35% over last metre of unit. 5% Fine grained pyrrhotite patches associated with 'ea' beds and as fine grained stringers associated with green hornblende. Bedding at 60 to 70 degrees to the core axis. | | | | | | | | | |
| 208.00 | 211.90 | Rock RQD 100%. | | | | | | | | | |
| 208.00 | 209.00 | lea. | 21068 | 208.00 | 209.00 | 1.00 | 5 | 25.85 | n/a | n/a | 25.85 |
| 209.00 | 210.00 | lea. | 21069 | 209.00 | 210.00 | 1.00 | 3-5 | 1.50 | n/a | n/a | 1.50 |
| 210.00 | 211.00 | leaf, f bed content increases to 35% @210.7 m | 21070 | 210.00 | 211.00 | 1.00 | 3-5 | .41 | n/a | n/a | .41 |
| 211.00 | 211.90 | leaf. | 21071 | 211.00 | 211.90 | .90 | 1 | .68 | n/a | n/a | .68 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPc | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | wedge with up to 15% phlogopite. foliation at 30 degrees to the core axis. | | | | | | | | | |
| 316.65 | 318.35 | 4f 15% garnets supported by biotite / phlogopite. staurolite, andalusite absent trace to 1% fine grained pyrrhotite associated with quartz veins. foliation at 45 degrees to the core axis. | 21088 | 316.65 | 318.35 | 1.70 | TR-1 | 4.25 | n/a | n/a | 4.25 |
| 316.65 | 318.35 | 4f. | | | | | | | | | |
| 318.35 | 328.30 | INTERMEDIATE TO MAFIC VOLCANICS B. Typical fine grained hornblende rich B with up to 20% fine to medium grained disseminated phlogopite. 2 to 3% mm scale carbonate veinlets parallel to foliation. Local quartz pyrrhotite veins as detailed below. Subordinate veinlet set healed by carbonate. Vein set strikes at 20 degrees to the core axis, with subvertical dip. Foliation at 45 degrees to the core axis decreasing to 25 degrees to the core axis @ 325.0 m. | | | | | | | | | |
| 320.30 | 321.40 | Mf 50% garnet biotite staurolite bands interbedded with chert and minor 'e' beds. Biotite moderately chloritic. Trace to 1% fine grained pyrrhotite associated with chert. Bedding at 34 degrees to the core axis | 21089 | 320.30 | 321.40 | 1.10 | TR-1 | .40 | n/a | n/a | .40 |
| 320.30 | 321.40 | Mf. | | | | | | | | | |
| 321.40 | 322.40 | 2-4ea 60% intensely gruneritized 'ea' beds interbedded with 25% magnetite poor chert beds and 15% green hornblende rich mafic. Bedding well developed at 40 to 50 degrees to the core axis. Trace pyrrhotite. | 21090 | 321.40 | 322.40 | 1.00 | TR | 1.37 | n/a | n/a | 1.37 |
| 321.40 | 322.40 | 2-4ea. | | | | | | | | | |
| 326.30 | 337.80 | INTERMEDIATE TO MAFIC VOLCANICS B Volcanic. Fine grained, green with locally intense quartz flooding and carbonate veining. 15 to 20% bands of pale yellow grunerite ? alteration parallel to foliation. 328.3 to 331.25 intense quartz flooding with intense pyrrhotite mineralization as stringers as blebs in quartz. locally developed amorphous garnet clusters. 5 to 10% carbonate veins to 2 cm generally wispy and ill defined. Well developed foliation at 29 to 50 degrees to the core axis. | | | | | | | | | |
| 328.30 | 329.30 | B Volc 35% white quartz vein. | 21091 | 328.30 | 329.30 | 1.00 | 5-8 | 2.33 | n/a | n/a | 2.33 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: HUSS74

PAGE NO: 13

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| 329.31 | 337.80 | Rock RQD 95%. | | | | | | | | | |
| 329.30 | 330.30 | B Volc. | 21892 | 329.30 | 330.30 | 1.00 | 1-2 | .01 | n/a | n/a | .01 |
| 330.30 | 331.30 | B volc intensely silicified. | 21893 | 330.30 | 331.30 | 1.00 | 10-15 | 6.17 | n/a | n/a | 6.17 |
| 331.30 | 332.00 | B Volc. | 21894 | 331.30 | 332.00 | .70 | TR | .02 | n/a | n/a | .02 |
| 332.00 | 333.00 | B Volc. | 21895 | 332.00 | 333.00 | 1.00 | TR | .27 | n/a | n/a | .27 |
| 333.00 | 334.50 | B Volc. | 21896 | 333.00 | 334.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 334.50 | 336.00 | B Volc. | 21897 | 334.50 | 336.00 | 1.50 | TR | .41 | n/a | n/a | .41 |
| 336.00 | 337.80 | B Volc. | 21898 | 336.00 | 337.80 | 1.80 | TR-1 | .40 | n/a | n/a | .40 |
| 337.80 | 340.60 | POTASSIC BASALT | | | | | | | | | |
| | | 3. Fine to medium grained brown with 10 to 15% carbonate veins and disseminated blebs parallel to foliation. Well developed foliation at 27 to 30 degrees to the core axis. | | | | | | | | | |
| | | 337.81 340.60 Rock RQD 100%. | | | | | | | | | |
| | | 340.41 361.60 Rock RQD 100%. | | | | | | | | | |
| 340.60 | 361.60 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
| | | B Volcanic. Fine grained, green, hornblende rich mafic volcanic. 2 to 3% carbonate veins to 5 mm parallel to foliation. 3 to 5% fine grained phlogopite developed in patches throughout unit. Well developed foliation at 35 to 47 degrees to the core axis. | | | | | | | | | |
| | | 359.75 to 360.8 blue to white quartz vein trace pyrrhotite associated. | | | | | | | | | |
| | | 359.00 360.50 B Volc, quartz vein. | 21899 | 359.00 | 360.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 360.50 361.60 B Volc. | 21900 | 360.50 | 361.60 | 1.10 | TR | .27 | n/a | n/a | .27 |
| 361.60 | 364.20 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE | | | | | | | | | |
| | | 1.F. lfa. 55 to 60% f beds to 1 cm with 5 to 10% euhedral garnets to 2 mm. 15 to 20% ea beds generally less than or equal to 1 cm in width, with 5 to 10% subhedral to amorphous garnets to 3 mm in grunerite matrix. 10 to 15% magnetite poor chert beds to 1.5 cm. 5 to 10% green amphibole rich e beds as remnants of ea beds and whole beds with 1 to 2% euhedral garnets to 8 mm. 361.6 to 362.7 leaf intercalated with 35% mafic volcanics. Well preserved bedding at 59 degrees to the core axis. | | | | | | | | | |
| | | 361.60 364.20 Rock RQD 100%. | | | | | | | | | |
| | | 361.60 362.60 leaf. | 21901 | 361.60 | 362.60 | 1.00 | TR | .40 | n/a | n/a | .40 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5574
PAGE NO: 16

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

Left limb folding axial plane 50 degrees to the core axis.

376.10 382.70 Rock RQD 100%.

376.10 377.10 Keab intensely silicified.

377.10 378.10 Keab moderately silicified.

378.10 379.10 Keab.

379.10 380.10 Keab.

380.10 381.10 Keab moderately silicified.

381.10 382.10 Keab.

382.10 382.70 Keab.

| | | | | | | | | |
|-------|--------|--------|------|-------|-------|-----|-----|-------|
| 21915 | 376.10 | 377.10 | 1.00 | 10-12 | 22.05 | n/a | n/a | 22.05 |
| 21916 | 377.10 | 378.10 | 1.00 | 10-15 | 22.54 | n/a | n/a | 22.54 |
| 21917 | 378.10 | 379.10 | 1.00 | 1-2 | 3.22 | n/a | n/a | 3.22 |
| 21918 | 379.10 | 380.10 | 1.00 | TR | 1.30 | n/a | n/a | 1.30 |
| 21919 | 380.10 | 381.10 | 1.00 | 5-8 | 10.15 | n/a | n/a | 10.15 |
| 21920 | 381.10 | 382.10 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 21921 | 382.10 | 382.70 | .60 | TR | .01 | n/a | n/a | .01 |

382.70 395.60 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

Kea.

35 to 40% quartz flooding throughout unit. Quartz is white grey with pyrrhotite associated as stringers and blebs.

35 to 40% moderately to well developed ea beds with 20 to 25% subhedral to amorphous garnets to 1 cm in grunerite matrix.

5 to 10% magnetite poor chert beds.

5 to 10% green amphibole rich remnants of e beds.

5 to 8% magnetite as beds to 7 mm intensely gruneritized magnetite as mottled remnants.

Less than or equal to 1% f beds throughout.

Lower contact grades into next unit over 0.5 m.

Poorly to moderately preserved bedding at 45 to 55 degrees to the core axis.

Poorly to moderately developed fracture cleavage at 25 to 43 degrees to the core axis decreasing down hole.

Left limb folding axial plane 23 to 43 degrees to the core axis.

382.70 383.70 Kea.

382.71 395.60 Rock RQD 100%.

383.70 384.70 Kea weakly silicified.

384.70 385.70 Kea weakly silicified.

385.70 386.70 Kea intensely silicified.

386.70 387.70 Kea intensely silicified.

387.70 388.70 Kea intensely silicified.

388.70 389.70 Kea weakly silicified.

389.70 390.70 Kea.

390.70 391.70 Kea.

391.70 392.70 Kea intensely silicified.

392.70 393.70 Kea intensely silicified.

393.70 394.70 Kea intensely silicified.

394.70 395.60 Kea moderately silicified.

| | | | | | | | | |
|-------|--------|--------|------|------|-------|-----|-----|-------|
| 21922 | 382.70 | 383.70 | 1.00 | TR-1 | 1.58 | n/a | n/a | 1.58 |
| 21923 | 383.70 | 384.70 | 1.00 | 2-3 | 5.01 | n/a | n/a | 5.01 |
| 21924 | 384.70 | 385.70 | 1.00 | 1-2 | 2.67 | n/a | n/a | 2.67 |
| 21925 | 385.70 | 386.70 | 1.00 | 5-10 | 11.09 | n/a | n/a | 11.09 |
| 21926 | 386.70 | 387.70 | 1.00 | 5-10 | 0.39 | n/a | n/a | 0.39 |
| 21927 | 387.70 | 388.70 | 1.00 | 5-8 | 5.62 | n/a | n/a | 5.62 |
| 21928 | 388.70 | 389.70 | 1.00 | 3-5 | 13.01 | n/a | n/a | 13.01 |
| 21929 | 389.70 | 390.70 | 1.00 | TR | 1.17 | n/a | n/a | 1.17 |
| 21930 | 390.70 | 391.70 | 1.00 | TR | 1.92 | n/a | n/a | 1.92 |
| 21931 | 391.70 | 392.70 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 21932 | 392.70 | 393.70 | 1.00 | 1-2 | 5.42 | n/a | n/a | 5.42 |
| 21933 | 393.70 | 394.70 | 1.00 | TR-1 | 6.65 | n/a | n/a | 6.65 |
| 21934 | 394.70 | 395.60 | .90 | TR | .62 | n/a | n/a | .62 |

398.70 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

Kea.

45 to 50% laminated chert magnetite.

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 30% 25 f beds to 1.5 cm with trace to 2% garnets to 1 mm. 5 to 10% quartz veins to 5 cm trace pyrrhotite associated. 5 to 10% green amphibole rich e beds concentrated toward top of unit. Well preserved bedding at 41 to 53 degrees to the core axis Well developed fracture cleavage at 30 to 50. | | | | | | | | | |
| | | 395.60 397.10 4bf. | 21935 | 395.60 | 397.10 | 1.50 | TR | 1.30 | n/a | n/a | 1.30 |
| | | 395.61 398.90 Rock RQD 100%. | | | | | | | | | |
| | | 397.10 398.10 4bf. | 21936 | 397.10 | 398.10 | 1.00 | TR | .96 | n/a | n/a | .96 |
| | | 398.10 398.70 4bf. | 21937 | 398.10 | 398.70 | .60 | TR | .27 | n/a | n/a | .27 |
| 398.70 | 401.20 | GARNET - BIOTITE SCHIST 4f. 80 to 85% f beds to 1 cm with 10 to 15% garnets to 2 mm. 3 to 5% green amphibole rich e beds. 3 to 5% intensely gruneritized ea beds to 5 mm. 5 to 10% chert beds to 5 mm. Locally mineralization associated with e beds. Well preserved bedding at 42 to 48 degrees to the core axis 1 Left limb fold axial plane 17 degrees to the core axis. | | | | | | | | | |
| | | 398.90 401.20 Rock RQD 100%. | | | | | | | | | |
| | | 398.90 400.40 4f. | 21938 | 398.90 | 400.40 | 1.50 | TR | 1.10 | n/a | n/a | 1.10 |
| | | 400.40 401.20 4f. | 21939 | 400.40 | 401.20 | .80 | TR | 1.30 | n/a | n/a | 1.30 |
| 401.20 | 423.90 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE I.F. 4eab. 40 to 45% intensely gruneritized and moderately to well formed ea beds containing 20 to 25% subhedral to amorphous garnets to 1 cm in grunerite matrix. 10 to 15% green amphibole rich remnants of e beds. 25 to 30% chert beds containing 5 to 8% magnetite laminae. 2 to 5% magnetite beds to 5 mm intensely grunerite magnetite as mottled remnants. 3 to 5% f beds throughout. 10 to 15% quartz flooding with pyrrhotite associated. Moderately to well preserved bedding at 40 to 56 degrees to the core axis. 401.2 to 406.0 left limb folding axial plane 21 to 37 degrees to the core axis. 406.0 to 417.0 right limb folding axial plane 10 to 17 degrees to the core axis. 417.0 to 423.9 left limb folding axial plane 40 to 55 degrees to the core axis. Poorly developed fracture cleavage at 25 to 28 degrees to the core axis. | | | | | | | | | |
| | | 401.20 402.20 4ea. | 21940 | 401.20 | 402.20 | 1.00 | TR | 1.17 | n/a | n/a | 1.17 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MUS574
PAGE NO: 10

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|----------------------------|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| 401.21 | 423.90 | Rock RQD 100%. | | | | | | | | | |
| 402.20 | 403.20 | 4ea weakly silicified. | 21941 | 402.20 | 403.20 | 1.00 | TR-1 | 1.65 | n/a | n/a | 1.65 |
| 403.20 | 404.20 | 4ea moderately silicified. | 21942 | 403.20 | 404.20 | 1.00 | 3-5 | 2.24 | n/a | n/a | 2.24 |
| 404.20 | 405.20 | 4ea. | 21943 | 404.20 | 405.20 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 405.20 | 406.20 | 4ea weakly silicified. | 21944 | 405.20 | 406.20 | 1.00 | 1-2 | 1.65 | n/a | n/a | 1.65 |
| 406.20 | 407.20 | 4ea weakly silicified. | 21945 | 406.20 | 407.20 | 1.00 | 1-2 | .09 | n/a | n/a | .09 |
| 407.20 | 408.20 | 4ea. | 21946 | 407.20 | 408.20 | 1.00 | TR-1 | 1.23 | n/a | n/a | 1.23 |
| 408.20 | 409.20 | 4ea. | 21947 | 408.20 | 409.20 | 1.00 | TR | .98 | n/a | n/a | .98 |
| 409.20 | 410.20 | 4ea. | 21948 | 409.20 | 410.20 | 1.00 | TR-1 | .09 | n/a | n/a | .09 |
| 410.20 | 411.20 | 4ea. | 21949 | 410.20 | 411.20 | 1.00 | TR | 1.10 | n/a | n/a | 1.10 |
| 411.20 | 412.20 | 4ea intensely silicified. | 21950 | 411.20 | 412.20 | 1.00 | 5-10 | 4.09 | n/a | n/a | 4.09 |
| 412.20 | 413.20 | 4ea intensely silicified. | 21951 | 412.20 | 413.20 | 1.00 | 5-10 | 13.01 | n/a | n/a | 13.01 |
| 413.20 | 414.20 | 4ea intensely silicified. | 21952 | 413.20 | 414.20 | 1.00 | 5-10 | 13.50 | n/a | n/a | 13.50 |
| 414.20 | 415.20 | 4ea. | 21953 | 414.20 | 415.20 | 1.00 | 1-2 | 3.22 | n/a | n/a | 3.22 |
| 415.20 | 416.20 | 4ea. | 21954 | 415.20 | 416.20 | 1.00 | TR-1 | 4.53 | n/a | n/a | 4.53 |
| 416.20 | 417.20 | 4ea. | 21955 | 416.20 | 417.20 | 1.00 | TR | 1.23 | n/a | n/a | 1.23 |
| 417.20 | 418.20 | 4ea. | 21956 | 417.20 | 418.20 | 1.00 | TR | .96 | n/a | n/a | .96 |
| 418.20 | 419.20 | 4ea. | 21957 | 418.20 | 419.20 | 1.00 | TR | 1.37 | n/a | n/a | 1.37 |
| 419.20 | 420.20 | 4ea intensely silicified. | 21958 | 419.20 | 420.20 | 1.00 | 5-8 | 5.21 | n/a | n/a | 5.21 |
| 420.20 | 421.20 | 4ea weakly silicified. | 21959 | 420.20 | 421.20 | 1.00 | 2-3 | 3.63 | n/a | n/a | 3.63 |
| 421.20 | 422.20 | 4ea intensely silicified. | 21960 | 421.20 | 422.20 | 1.00 | 10-15 | 15.49 | n/a | n/a | 15.49 |
| 422.20 | 423.20 | 4ea wky sild. | 21961 | 422.20 | 423.20 | 1.00 | 3-5 | 2.01 | n/a | n/a | 2.01 |
| 423.20 | 423.90 | 4ea. | 21962 | 423.20 | 423.90 | .70 | TR-1 | 1.44 | n/a | n/a | 1.44 |

423.90 429.90 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bfa.

60 to 85% laminated b beds to 1.5 cm with 50 to 55% magnetite in cherty matrix.

25 to 30% f beds to 1 cm with 5 to 8% garnets to 2 mm locally garnets are absent.

5 to 10% grunerite alteration of magnetite and margins of f beds.

3 to 5% magnetite poor chert beds.

Less than or equal to 1% quartz and carbonate veins.

Well preserved bedding at 41 to 47 degrees to the core axis

Well developed fracture cleavage at 29 to 37 degrees to the core axis.

Left limb folding axial plane 30 to 34 degrees to the core axis.

423.90 429.90 Rock RQD 100%.

423.90 425.40 4bfa.

425.40 426.60 4bfa note: Not a mistake.

428.00 429.50 4bfa.

| | | | | | | | | |
|-------|--------|--------|------|----|-----|-----|-----|-----|
| 21963 | 423.90 | 425.40 | 1.50 | TR | .40 | n/a | n/a | .40 |
| 25994 | 425.40 | 426.60 | 1.20 | TR | .40 | n/a | n/a | .40 |
| 21964 | 428.00 | 429.50 | 1.50 | TR | .75 | n/a | n/a | .75 |

433.40 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.

4bea.

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | %Po | Av g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | F beds contain up to 1% pinhead sized garnets. Interbedded with f beds are light green fine grained beds resembling a B volc and chert beds. 65 to 70% f beds. 10 to 15% E volc beds. 10 to 15% chert beds. This unit represents the crest of a fold bedding is at 70 to 90 degrees to the core axis and axial planes parallel to core. Well developed fracture cleavage at 20 to 30 degrees to the core axis. | | | | | | | | | |
| 448.20 | 449.70 | 4f char smpl. | 21973 | 448.20 | 449.70 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 448.21 | 450.35 | Rock RQD 100%. | | | | | | | | | |
| 449.70 | 450.35 | 4f char smpl. | 21974 | 449.70 | 450.35 | .65 | TR | .40 | n/a | n/a | .40 |

450.35 455.00 CHERT - MAGNETITE IRON FORMATION

4b.
As described 441.6 to 448.2.
Drilled through crest of a fold.
Well preserved bedding at 70 to 90 degrees to the core axis
Well developed fracture cleavage at 27 to 32 degrees to the core axis.
Right limb folding axial plane 0 to 15 degrees to the core axis.

450.36 455.00 Rock RQD 100%.

453.50 455.00 4b char smpl.

| | | | | | | | | |
|-------|--------|--------|------|----|-----|-----|-----|-----|
| 21975 | 453.50 | 455.00 | 1.50 | TR | .55 | n/a | n/a | .55 |
|-------|--------|--------|------|----|-----|-----|-----|-----|

455.00 455.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

REF CORD: 3493.4 2830.5 SURVEYED: YES

PLACER DOME INC.

LOCATION: 112+00S 107+00E GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5575
PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1973)
SECTION:

POST LOCATION:

AZIMUTH: 67.1

LENGTH: 281.0

ELEVATION: 5305.0

LOGGED BY: PAUL GERTZBEIN AND WARTYN BECKETT

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 12 - 15, 1988

STARTED: MARCH 11, 1988

COMPLETED: MARCH 15, 1988

CLAIM NO:

PURPOSE: WILDCAT HOLE EAST LIMB WEST ANTICLINE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -43.5 | 100.00 | | -33.0 |
| 60.00 | | -42.0 | 210.00 | | -30.5 |
| 90.00 | | -39.0 | 240.00 | | -30.5 |
| 120.00 | | -36.0 | 270.00 | | -31.0 |
| 150.00 | | -35.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | REGRM | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

| | | | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|
| .00 | 13.30 | OVERBURDEN Sand and boulders. | | | | | | | | | |
|-----|-------|----------------------------------|--|--|--|--|--|--|--|--|--|

| | | | | | | | | | | | |
|-------|-------|---------------------------------|--|--|--|--|--|--|--|--|--|
| 13.30 | 52.65 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
|-------|-------|---------------------------------|--|--|--|--|--|--|--|--|--|

B Volcanic.

Coarse to medium grained, light green, mafic volcanic.

10 to 15% pseudomorphs of hornblende phenocryst.

Phenocryst are composed of phlogopite centers with

hornblende rims and range in size from less than 1 mm to 3

mm.

Phenocryst form a mineral lineation from 50 to 65 degrees to the core axis.

The matrix is composed of 45 to 50% fine grained green hornblende and 30 to 35% white feldspar (plagioclase).

This unit becomes progressively finer grained to 36.2,

then becomes coarse grained and progressively finer

grained to 52.65. There is no chilled margin at 36.2.

20.0 to 27.5 10 to 15% blue to white quartz veins to 3 cm parallel to subparallel to degrees to the core axis.

Poorly developed foliation in coarse grained sections to

moderately developed foliation in fine grained sections.

Foliation at 45 to 65 degrees to the core axis.

13.30 15.50 Rock RQD 65%.

15.51 24.50 Rock RQD 100%.

20.00 21.50 B Volc quartz veins.

21.50 23.00 B Volc quartz veins.

24.51 28.00 Rock RQD 75%.

| | | | | | | | | |
|-------|-------|-------|------|----|-----|-----|-----|-----|
| 20885 | 20.00 | 21.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
|-------|-------|-------|------|----|-----|-----|-----|-----|

| | | | | | | | | |
|-------|-------|-------|------|----|-----|-----|-----|-----|
| 20606 | 21.50 | 23.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
|-------|-------|-------|------|----|-----|-----|-----|-----|

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|--------|--------|-------|--------|---------|
| 81.0 | 82.25 | rare magnetite laminae altered by grunerite, magnetite as mottled remnants. Pyrrhotite occurs as flecks and blebs and as stringers in vicinity of qtz veins. Upper and lower contacts are gradational over 50 cm. Contacts are intercalated with B volc. Moderately to well preserved bedding at 67 to 80 degrees to the core axis. | | | | | | | | | |
| 62.0 | 63.0 | left limb folding axial plane 67 to 80 degrees to the core axis. | | | | | | | | | |
| 60.50 | 62.00 | 4ef. | 20613 | 60.60 | 62.00 | 1.40 | TR | .21 | n/a | n/a | .21 |
| 60.61 | 74.50 | Rock RQD 100%. | | | | | | | | | |
| 62.90 | 63.50 | 4ef minor quartz veins. | 20614 | 62.90 | 63.50 | 1.50 | TR-1 | 2.61 | n/a | n/a | 2.61 |
| 63.50 | 65.00 | 4ef. | 20615 | 63.50 | 65.00 | 1.50 | TR | .27 | n/a | n/a | .27 |
| 65.90 | 66.50 | 4ef. | 20616 | 65.00 | 66.50 | 1.50 | TR | .41 | n/a | n/a | .41 |
| 66.50 | 68.00 | 4ef. | 20617 | 66.50 | 68.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 69.00 | 69.50 | 4ef. | 20618 | 68.00 | 69.50 | 1.50 | TR-0.5 | .27 | n/a | n/a | .27 |
| 69.50 | 71.00 | 4ef. | 20619 | 69.50 | 71.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 71.00 | 72.50 | 4ef moderately silicified. | 20620 | 71.00 | 72.50 | 1.50 | TR | .40 | n/a | n/a | .40 |
| 72.50 | 74.00 | 4ef. | 20621 | 72.50 | 74.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 74.00 | 75.50 | 4ef. | 20622 | 74.00 | 75.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 74.51 | 76.50 | Rock RQD 65%. | | | | | | | | | |
| 75.50 | 77.00 | 4ef. | 20623 | 75.50 | 77.00 | 1.50 | TR | .21 | n/a | n/a | .21 |
| 76.51 | 82.75 | Rock RQD 100%. | | | | | | | | | |
| 77.00 | 78.50 | 4ef. | 20624 | 77.00 | 78.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 78.50 | 80.00 | 4ef. | 20625 | 78.50 | 80.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 80.00 | 81.50 | 4ef. | 20626 | 80.00 | 81.50 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 81.50 | 82.25 | 4ef. | 20627 | 81.50 | 82.25 | .75 | 1-2 | .34 | n/a | n/a | .34 |

82.75 99.80 INTERMEDIATE TO MAFC VOLCANICS

B Volcanic.

Medium grained, green mafic volcanic.

Compositionally and texturally similar to 13.3 to 52.65, except finer grained. Phlogopite pseudomorphs of hornblende are present and range in size from 1 to 2 mm.

5 to 10% fine grained phlogopite developed throughout unit.

3 to 5% quartz and carbonate veins parallel to foliation.

Poorly to moderately developed foliation at 62 to 70 degrees to the core axis.

82.76 99.80 Rock RQD 90%.

87.50 89.00 B Volc quartz-carbonate veins.

92.00 93.50 B Volc quartz veins.

93.50 95.00 B Volc quartz pyrrhotite veins.

| | | | | | | | | |
|-------|-------|-------|------|------|-----|-----|-----|-----|
| 20628 | 87.50 | 89.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20629 | 92.00 | 93.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20630 | 93.50 | 95.00 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |

99.80 100.15 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.

4b=a.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 10 to 15% magnetite as mottled remnants in intensely gruneritized beds and disseminated in e beds. 30 to 35% chert beds to 1 cm with rare magnetite laminae. 30 to 35% green amphibole rich e beds to 1 cm with 1 to 2% garnets. 10 to 15% grunerite as alteration of magnetite beds and magnetite disseminated in e beds locally forming ea beds. Well preserved bedding at 70 to 80 degrees to the core axis 98.90 100.15 Rock RQD 100%. | | | | | | | | | |
| | | 98.90 100.15 4be 1 pyrrhotite chalcopyrite stringer. | 20631 | 98.90 | 100.15 | 1.25 | TR | .62 | n/a | n/a | .62 |
| 100.15 | 116.40 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Similar to 82.75. Foliation poorly to moderately developed at 62 to 80 degrees to the core axis. Rare quartz-carbonate veins, less than or equal to 2.5 cm, parallel to foliation. 100.15 116.40 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 101.00 102.50 B volc, 3% quartz-carbonate veins. | 20632 | 101.00 | 102.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 107.00 108.50 B volc, quartz-carbonate veins. | 20633 | 107.00 | 108.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 116.40 | 117.15 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE I.F. 4be. Similar to 98.8, but with grunerite content less than or equal to 3%. 'a' beds concentrated in upper half of unit, while 'b' beds dominate in lower half. Well bedded at 68 to 70 degrees to the core axis. 116.40 117.15 Rock RQD 85%. | | | | | | | | | |
| | | 116.40 117.15 4be, carbonate-quartz veins. | 20634 | 116.40 | 117.15 | .75 | TR | .02 | n/a | n/a | .02 |
| 117.15 | 126.90 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Typical fine grained to medium grained medium green brown amphibole feldspar volcanic package with 10 to 15% medium grained brown phlogopite, generally disseminated. 3 to 5% white carbonate and quartz veins, 0.3 to 4.0 cm, barren. Well foliated at 67 to 70 degrees to the core axis. Blocky, chloritic through most of unit, with occasional 'silver dollar core'. Gravelly sections rare. 117.15 126.90 Rock RQD 70%. | | | | | | | | | |
| | | 119.00 120.50 B volc, quartz-carbonate veins. | 20635 | 119.00 | 120.50 | 1.50 | 0 | .40 | n/a | n/a | .40 |
| | | 120.50 122.00 B volc, quartz-carbonate veins. | 20636 | 120.50 | 122.00 | 1.50 | 0 | .21 | n/a | n/a | .21 |
| | | 122.00 123.50 B volc, quartz-carbonate veins. | 20637 | 122.00 | 123.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

124.70 125.00 Small wedge of the material similar to 116.4.

126.90 145.60 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4b(f).
60% 'b' beds, laminated to thinly bedded, with 25 to 30% magnetite, generally weakly gruneritized. Beds occasionally display mottled magnetite in grunerite texture, especially from 127.0 to 131.1.
10 to 15% magnetite poor chert beds, 0.4 to 1.1 cm, rarely with grunerite laminae less than or equal to 1 mm at bed margins.
15 to 20% 'f' beds, generally garnet poor, with 1 to 2% pinhead garnets; beds moderately to heavily chloritized, up to 4.7 cm wide.
Well bedded at 70 to 82 degrees to the core axis.
5 to 10% quartz veins, 0.9 to 18.0 cm, sub parallel to bedding, associated with trace to 1% pyrrhotite blebs up to 3 mm, and trace to 1% pyrite blebs.
Locally developed fracture cleavage, carbonate filled, at 50 to 52 degrees to the core axis.

126.90 145.60 Rock RQD 95 to 100%.

126.90 128.30 4b(f), quartz veins.

128.30 129.80 4b(f), quartz veins.

129.80 131.30 4b(f).

131.30 132.80 4bf, rare quartz veins.

132.80 134.30 4b(f), rare quartz-carbonate veins.

134.30 135.80 4b(f), quartz-carbonate veins.

135.80 137.30 4b(f).

137.30 138.80 4b(f), quartz veins.

138.80 140.30 4b(a), quartz veins, trace to 1% pyrite.

140.30 141.80 4bf, quartz veins, 1% pyrite veinlets.

141.80 143.30 4b(f), quartz veins, 1 to 2% pyrite flecks.

143.30 144.80 4b(a), laminated, trace pyrite flecks.

144.80 145.60 4bf, quartz veins.

| | | | | | | | | |
|-------|--------|--------|------|------|-----|-----|-----|-----|
| 20638 | 126.90 | 128.30 | 1.40 | 1-2 | .01 | n/a | n/a | .01 |
| 20639 | 128.30 | 129.80 | 1.50 | 1-2 | .21 | n/a | n/a | .21 |
| 20640 | 129.80 | 131.30 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20641 | 131.30 | 132.80 | 1.50 | 0 | .34 | n/a | n/a | .34 |
| 20642 | 132.80 | 134.30 | 1.50 | TR-1 | .69 | n/a | n/a | .69 |
| 20643 | 134.30 | 135.80 | 1.50 | 1-2 | .41 | n/a | n/a | .41 |
| 20644 | 135.80 | 137.30 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 20645 | 137.30 | 138.80 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| 20646 | 138.80 | 140.30 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 20647 | 140.30 | 141.80 | 1.50 | 1-2 | .27 | n/a | n/a | .27 |
| 20648 | 141.80 | 143.30 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| 20649 | 143.30 | 144.80 | 1.50 | TC | .21 | n/a | n/a | .21 |
| 20650 | 144.80 | 145.60 | .80 | 0 | .01 | n/a | n/a | .01 |

145.60 163.00 CHERT - MAGNETITE IRON FORMATION

4b.

Laminated to thinly bedded unit, consisting of 70 to 75% 'b' beds with 30 to 35% magnetite laminae. Beds weakly gruneritized, 15 to 20% chert beds, less than or equal to 1.0 cm, locally slightly boudinaged. Rare grunerite laminae at contact with 'b' beds.

3 to 5% 'f' beds, locally developed, less than or equal to 6 cm, heavily chloritized.

Well bedded at 88 degrees to the core axis, decreasing downhole to 41 degrees to the core axis below 161.5.

3 to 5% white quartz-carbonate veins, 1 to 11 cm, parallel

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | to 3 mm in cherty matrix and 5 to 10% grunerite alteration of magnetite. 3 to 5% quartz and carbonate veins. Well preserved bedding at 66 degrees to the core axis and left limb folding axial plane 83 degrees to the core axis. | | | | | | | | | |
| | | 185.7 to 186.45 as described 174.9 to 176.0 with 20 to 25% pyrrhotite as stringers and bands. | | | | | | | | | |
| | | 169.01 173.00 Rock RQD 45%. | | | | | | | | | |
| | | 173.01 189.50 Rock RQD 100%. | | | | | | | | | |
| | | 174.90 176.00 4b. | 20667 | 174.90 | 176.00 | 1.10 | TR | .55 | n/a | n/a | .55 |
| | | 185.70 186.45 4b. | 20668 | 185.70 | 186.45 | .75 | 20-25 | .69 | n/a | n/a | .69 |
| | | 181.00 189.50 Magnesium alteration is light almost becoming a B volc. | | | | | | | | | |
| 189.50 | 191.60 | CHERT - MAGNETITE IRON FORMATION 4b. Laminated to thinly bedded chert magnetite with 5 to 10% grunerite alteration of magnetite. Well preserved bedding at 75 to 77 degrees to the core axis Left limb folding axial plane 45 degrees to the core axis. Fracture cleavage 45 degrees to the core axis. | | | | | | | | | |
| | | 189.50 190.50 4b. | 20669 | 189.50 | 190.50 | 1.00 | NIL | .55 | n/a | n/a | .55 |
| | | 189.51 191.60 Rock RQD 100%. | | | | | | | | | |
| | | 190.50 191.60 4b. | 20670 | 190.50 | 191.60 | 1.10 | NIL | .75 | n/a | n/a | .75 |
| 191.60 | 193.15 | TREMOLITE / CHLORITE MG BASALT 1d. As described 189.0 to 193.15. Poorly developed foliation at 70 degrees to the core axis. | | | | | | | | | |
| | | 191.61 193.15 Rock RQD 100%. | | | | | | | | | |
| 193.15 | 200.90 | CHERT - MAGNETITE IRON FORMATION 4b. Similar to 189.5. Well laminated at 73 to 78 degrees to the core axis. Considerable small right limb folds throughout unit, with fold axes 79 to 83 degrees to the core axis. W folds visible on fold crest. | | | | | | | | | |
| | | 193.15 200.90 Rock RQD 100%. | | | | | | | | | |
| | | 192.15 194.65 4b, character sample. | 20671 | 193.15 | 194.65 | 1.50 | TR | .75 | n/a | n/a | .75 |
| | | 194.65 196.15 4b, character sample. | 20672 | 194.65 | 196.15 | 1.50 | 0 | .55 | n/a | n/a | .55 |
| | | 196.15 197.65 4b, character sample. | 20673 | 196.15 | 197.65 | 1.50 | 0 | .62 | n/a | n/a | .62 |
| | | 197.65 199.15 4b, character sample. | 20674 | 197.65 | 199.15 | 1.50 | TR | .55 | n/a | n/a | .55 |
| | | 199.15 200.15 4b, character sample. | 20675 | 199.15 | 200.15 | 1.00 | 0 | .96 | n/a | n/a | .96 |
| | | 200.15 200.90 4b, sulphide replacement. | 20676 | 200.15 | 200.90 | .75 | TR-1 | 1.03 | n/a | n/a | 1.03 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | RERUN | REJECT | AVERAGE |
|--------|-----------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 227.0 | to 228.15 | basement basalt 2 fine grained, green, and hard with 10 to 15% phlogopite developed. | | | | | | | | | |
| 263.5 | to 266.25 | as described 215.35;218.2. | | | | | | | | | |
| Well | developed | foliation 215.35 to 248.0 23 to 60 degrees to the core axis decreasing down hole. | | | | | | | | | |
| 244.0 | to 263.5 | well developed foliation at 41 to 52 degrees to the core axis. | | | | | | | | | |
| 215.35 | 266.25 | Rock RQF 100%. | | | | | | | | | |
| 215.35 | 216.85 | le. | 20688 | 215.35 | 216.85 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 265.00 | 266.00 | le quartz veins. | 20689 | 265.00 | 266.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 265.25 | 263.70 | BAZALT 2. Medium green brown, medium grained, amphibole feldspar phlogopite volcanic package. Moderate compositional banding of mica rich and mica poor bands at 58 to 73 degrees to the core axis. Poorly defined foliation at approx 61 degrees to the core axis. 5 to 8% pyrrhotite veinlets and stringers both sub parallel to compositional banding and cutting banding at 40 to 42 degrees to the core axis. Quartz very rare as isolated veins up to 1.0 cm. Lower contact very poorly defined, grading over 1.0 m. 266.25 268.70 Rock RQF 100%. | | | | | | | | | |
| 266.25 | 267.25 | 2, character sample. | 20690 | 266.25 | 267.25 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 267.25 | 268.70 | 2. | 20691 | 267.25 | 268.70 | 1.45 | 5-10 | .36 | n/a | n/a | .36 |
| 268.70 | 272.05 | CHERT - MAGNETITE IRON FORMATION 4b. Similar to 189.5. 10 to 15% biotite beds, 1 to 3 mm, weakly chloritized, with trace pinhead garnets. Well bedded at 74 to 78 degrees to the core axis. 1 to 3% pyrrhotite, locally to 5%, as veinlets up to 2 mm parallel to bedding, and also as local sulphide replacement of magnetite. Quartz veins rare, associated with trace pyrrhotite stringers as in samples. Small, broad, open left limb fold at 269.3, with axial plane 40 degrees to the core axis. 268.70 272.05 Rock RQF 100%. | | | | | | | | | |
| 268.70 | 270.20 | 4b. | 20692 | 268.70 | 270.20 | 1.50 | 3-5 | .21 | n/a | n/a | .21 |
| 270.20 | 271.20 | 4b. | 20693 | 270.20 | 271.20 | 1.00 | 1-3 | .01 | n/a | n/a | .01 |
| 271.20 | 272.05 | 4b. | 20694 | 271.20 | 272.05 | .85 | 1-3 | .27 | n/a | n/a | .27 |

PLACER DOME INC.

REF COFD: 8084.1 5794.0 SURVEYED: YES

DIAMOND DRILL RECORD

LOCATION: 33*00N 3*00W GRID: EAST

HOLE NO: M5576
PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1973)

POST LOCATION:

SECTION:

AZIMUTH: 49.5

LENGTH: 326.5

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN

DIP: -56.2

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 14 - 17, 1988

STARTED: MARCH 13, 1988

COMPLETED: MARCH 17, 1988

CLAIM NO:

PURPOSE: TEST DOWN PUNGE ESVER ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 17.00 | | -57.0 | 180.00 | | -48.0 |
| 30.00 | | -56.0 | 210.00 | | -48.0 |
| 60.00 | | -55.5 | 240.00 | | -47.0 |
| 90.00 | | -55.0 | 270.00 | | -44.5 |
| 120.00 | | -52.5 | 300.00 | | -43.0 |
| 150.00 | | -50.0 | | | |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

.00 17.90 OVERBURDEN

17.90 38.00 FELSIC TO INTERMEDIATE VOLCANICS

Intermediate A Volcanic.

Fine grained, brown grey to brown green.

Phlogopite developed through unit forming compositional bands.

5 to 10% carbonate veinlets and disseminated carbonate parallel to foliation throughout unit.

Well developed foliation at 50 to 55 degrees to the core axis.

17.91 20.00 Rock PQD 25%.

20.01 38.00 Rock RQD 100%.

38.00 56.00 FELSIC TO INTERMEDIATE VOLCANICS

Intermediate A Volcanic.

As described 17.9 to 38.0.

41.0 to 44.7 intense quartz veining. White quartz veins from 1 to 5 cm trace pyrrhotite associated.

Well developed foliation at 40 to 55 degrees to the core axis.

38.01 56.00 Rock RQD 100%.

41.00 42.50 A Volc quartz veins.

21976 41.00 42.50 1.50 TR .01 n/a n/a .01

42.50 44.00 A Volc quartz veins.

21977 42.50 44.00 1.50 TR .01 n/a n/a .01

44.00 45.00 A Volc quartz veins.

21978 44.00 45.00 1.00 TR .69 n/a n/a .69

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

e beds with 2 to 3% euhedral garnets to 8 mm.
25 to 30% chert beds to 1 cm with rare magnetite laminae.
15 to 20% well developed ea beds with 10 to 15% subhedral to amorphous garnets in grunerite matrix.
5 to 10% magnetite predominantly disseminated in e beds and mottled remnants in gruneritized beds.
5 to 10% quartz locally disrupting bedding with pyrrhotite associated.
2 to 3% f beds.
218.6 to 219.1 kf.
Well preserved bedding at 60 to 65 degrees to the core axis
Left limb folding axial plane 45 to 58 degrees to the core axis.

Lower contact gradational over 1 m into 4bea, thinly bedded with increased magnetite content.

| | | | | | | | | | | | |
|--------|--------|----------------------------|-------|--------|--------|------|-----|------|-----|-----|------|
| 218.60 | 219.60 | 4f, 4ea. | 21994 | 218.60 | 219.60 | 1.00 | 1-2 | .01 | n/a | n/a | .01 |
| 218.61 | 225.80 | Rock RQD 95%. | | | | | | | | | |
| 219.60 | 220.60 | 4ea weakly silicified. | 21995 | 219.60 | 220.60 | 1.00 | 1-2 | 2.26 | n/a | n/a | 2.26 |
| 220.60 | 221.60 | 4ea intensely silicified. | 21996 | 220.60 | 221.60 | 1.00 | 5-8 | 7.45 | n/a | n/a | 7.45 |
| 221.60 | 222.60 | 4ea moderately silicified. | 21997 | 221.60 | 222.60 | 1.00 | 3-5 | 3.41 | n/a | n/a | 3.41 |
| 222.60 | 223.60 | 4ea weakly silicified. | 21998 | 222.60 | 223.60 | 1.00 | TR | 1.44 | n/a | n/a | 1.44 |
| 223.60 | 224.60 | 4ea moderately silicified. | 21999 | 223.60 | 224.60 | 1.00 | 1-2 | 5.62 | n/a | n/a | 5.62 |
| 224.60 | 225.80 | 4eab. | 22000 | 224.60 | 225.80 | 1.20 | TR | .48 | n/a | n/a | .48 |

225.80 231.75 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE

1.F.
4bea.
45 to 50% laminated to thinly bedded magnetite in cherty matrix.
15 to 20% chert beds to 1 cm becoming prevalent toward lower end of unit.
15 to 20% e beds 1 to 3 mm generally lightly gruneritized with 3 to 5% euhedral to subhedral garnets to 1 mm locally forming poor ea beds.

2 to 3% f beds 2 to 3 mm.
5 to 10% grunerite alteration of magnetite and e beds.

2 to 3% quartz pyrrhotite veins to 5 cm.

231.5 to 231.75 kf.

Well preserved bedding at 60 to 80 degrees to the core axis
Left limb folding at 69 to 76 degrees to the core axis.

Poorly developed fracture cleavage at 73 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|-------------------------|-------|--------|--------|------|------|------|-----|-----|------|
| 225.80 | 227.20 | 4bea quartz pyrrhotite. | 22001 | 225.80 | 227.20 | 1.40 | 1-2 | 2.19 | n/a | n/a | 2.19 |
| 225.81 | 231.75 | Rock RQD 100%. | | | | | | | | | |
| 227.20 | 228.20 | 4bea quartz pyrrhotite. | 22002 | 227.20 | 228.20 | 1.00 | 1-2 | 1.99 | n/a | n/a | 1.99 |
| 228.20 | 229.20 | 4bea quartz pyrrhotite. | 22003 | 228.20 | 229.20 | 1.00 | 5-8 | 4.00 | n/a | n/a | 4.00 |
| 229.20 | 230.20 | 4bea quartz pyrrhotite. | 22004 | 229.20 | 230.20 | 1.00 | 1-2 | 1.71 | n/a | n/a | 1.71 |
| 230.20 | 231.20 | 4bea quartz pyrrhotite. | 22005 | 230.20 | 231.20 | 1.00 | TR-1 | .21 | n/a | n/a | .21 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 231.20 | 231.75 | 4bea, 4f. | 22006 | 231.20 | 231.75 | .55 | TR | .41 | n/a | n/a | .41 |
| 231.75 | 257.10 | CHERT - MAGNETITE IRON FORMATION 4b. 40 to 45% magnetite bed to laminated. 30 to 35% chert beds to 2 cm with 1 to 2% magnetite laminae 10 to 15% grunerite alteration of magnetite. Heavily gruneritized on margins of beds and laminae and lightly gruneritized in interior of beds. 2 to 3% f beds throughout. 5 to 8% quartz pyrrhotite veins to 20 cm through. Moderately to well preserved bedding at 54 to 96 degrees to the core axis. 231.75 to 243.0 left limb folding axial plane 60 to 65 degrees to the core axis. Fracture cleavage well developed at 61 to 82 degrees to the core axis. 243.0 to 246.0 right limb folding axial plane 73 to 85 degrees to the core axis. Well developed fracture cleavage at 82 to 88 degrees to the core axis. 246.0 to 250.0 left limb folding axial plane 63 to 81 degrees to the core axis with well developed fracture cleavage at 65 to 71 degrees to the core axis. 250.0 to 257.1 right limb folding axial plane 50 to 70 degrees to the core axis with well developed fracture cleavage at 60 to 85 degrees to the core axis. Bedding cleavage relationship throughout indicates left limb of synform. | | | | | | | | | |
| 231.75 | 233.25 | 4b quartz pyrrhotite. | 22007 | 231.75 | 233.25 | 1.50 | 1-2 | 11.11 | n/a | n/a | 11.11 |
| 231.76 | 257.10 | Rock RQC 100%. | | | | | | | | | |
| 233.25 | 234.75 | 4b quartz pyrrhotite. | 22008 | 233.25 | 234.75 | 1.50 | 3-5 | .34 | n/a | n/a | .34 |
| 234.75 | 236.25 | 4b quartz pyrrhotite. | 22009 | 234.75 | 236.25 | 1.50 | TR-1 | .27 | n/a | n/a | .27 |
| 236.25 | 237.75 | 4b quartz pyrrhotite. | 22010 | 236.25 | 237.75 | 1.50 | TR | .21 | n/a | n/a | .21 |
| 237.75 | 239.25 | 4b quartz pyrrhotite 1 to 2 arsenopyrite. | 22011 | 237.75 | 239.25 | 1.50 | TR | .89 | n/a | n/a | .89 |
| 239.25 | 240.75 | 4b quartz pyrrhotite. | 22012 | 239.25 | 240.75 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 240.75 | 242.25 | 4b quartz pyrrhotite. | 22013 | 240.75 | 242.25 | 1.50 | TR-1 | 1.65 | n/a | n/a | 1.65 |
| 242.25 | 243.75 | 4b quartz pyrrhotite. | 22014 | 242.25 | 243.75 | 1.50 | TR-1 | 4.11 | n/a | n/a | 4.11 |
| 243.75 | 245.25 | 4b quartz pyrrhotite. | 22015 | 243.75 | 245.25 | 1.50 | 2-3 | 2.19 | n/a | n/a | 2.19 |
| 245.25 | 246.75 | 4b quartz pyrrhotite. | 22016 | 245.25 | 246.75 | 1.50 | TR-1 | .82 | n/a | n/a | .82 |
| 246.75 | 248.25 | 4b quartz pyrrhotite. | 22017 | 246.75 | 248.25 | 1.50 | TR | .62 | n/a | n/a | .62 |
| 249.50 | 251.00 | 4b quartz pyrrhotite. | 22018 | 249.50 | 251.00 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 254.00 | 255.50 | 4b quartz pyrrhotite. | 22019 | 254.00 | 255.50 | 1.50 | TR-1 | .96 | n/a | n/a | .96 |
| 255.50 | 257.10 | 4b quartz pyrrhotite. | 22020 | 255.50 | 257.10 | 1.60 | TR | .69 | n/a | n/a | .69 |

257.10 252.80 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE
I.F.
4bea.
Compositionally similar to 225.8 to 231.75 but texturally

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Au g/t RERUN REJECT AVERAGE

to the core axis.
Well developed fracture cleavage at 60 to 70 degrees to the core axis.
Rare left limb folds axial plane 56 degrees to the core axis to 294.0.
294.0 to 300.3 right limb folding axial plane 47 to 56.
299.31 300.30 Rock RQD 100%.
292.50 294.00 4bfa char smpl.
294.50 296.00 4bfa quartz pyrrhotite.
299.00 300.30 4bfa quartz pyrrhotite.

| | | | | | | | | |
|-------|--------|--------|------|------|------|-----|-----|------|
| 22045 | 292.50 | 294.00 | 1.50 | NIL | 1.51 | n/a | n/a | 1.51 |
| 22046 | 294.50 | 296.00 | 1.50 | TR-1 | 1.44 | n/a | n/a | 1.44 |
| 22047 | 299.00 | 300.30 | 1.30 | TR-1 | 1.65 | n/a | n/a | 1.65 |

300.30 309.40 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.
25 to 30% magnetite bedded to laminated generally overprinted by grunerite alteration.
25 to 30% grunerite alteration of magnetite. Laminae in chert beds are generally completely altered and margins of magnetite beds heavily gruneritized. Grunerite alteration decreased toward lower contact.
40 to 45% chert beds to 2 cm.
2 to 3% f beds throughout.
Poorly to moderately preserved bedding at 47 to 63 degrees to the core axis.
Rare right limb folding axial plane 42 degrees to the core axis.
300.31 309.40 Rock RQD 100%.
302.00 303.50 4ba char smpl.
305.00 306.50 4ba char smpl.
308.00 309.30 4ba char smpl.

| | | | | | | | | |
|-------|--------|--------|------|----|------|-----|-----|------|
| 22048 | 302.00 | 303.50 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 22049 | 305.00 | 306.50 | 1.50 | TR | 1.30 | n/a | n/a | 1.30 |
| 22050 | 308.00 | 309.30 | 1.30 | TR | 1.23 | n/a | n/a | 1.23 |

309.40 312.30 GARNET - BICHITE SCHIST

4f.
85 to 90% garnet biotite schist with 20 to 25% euhedral garnets to 1 mm.
5 to 10% chert beds to 8 mm.
3 to 5% grunerite alteration on margins of ch beds.
Well preserved bedding at 55 to 70 degrees to the core axis
Left limb folding axial plane 63 degrees to the core axis.
309.41 312.30 Rock RQD 100%.

312.30 316.30 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.
As described 300.3 to 309.4.
Grunerite alteration increases toward lower contact.
Poorly to moderately preserved bedding at 60 to 69 degrees to the core axis.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-------|--------|-------|--------|---------|
| 71.30 | 72.60 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE I.F. As described 62.6 to 63.6. 1 to 2% pyrrhotite as stringers and blebs associated with e beds. Well preserved bedding at 57 to 67 degrees to the core axis Left limb folding axial plane 50 degrees to the core axis. 71.30 72.60 kbe. 71.31 72.60 Rock RQD 100%. | 20712 | 71.30 | 72.60 | 1.30 | 1-2 | .21 | n/a | n/a | .21 |
| 72.80 | 75.80 | GABBRO Gb. As described 63.6 to 66.45. Fine grained at top 50 cm and lower 25 cm of unit. 2 to 3% quartz-carbonate veins to 2 cm parallel to foliation. Well developed foliation, defined by hornblende phenocryst, at 50 to 54 degrees to the core axis. 72.81 76.80 Rock RQD 85%. | | | | | | | | | |
| 76.80 | 77.45 | CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE I.F. kbe. As described 66.45 to 67.15. 10 to 15 % pyrrhotite. Well preserved bedding at 69 degrees to the core axis. 76.80 77.45 kbe. 76.81 77.45 Rock RQD 100%. | 20713 | 76.80 | 77.45 | .65 | 10-15 | .90 | n/a | n/a | .90 |
| 77.45 | 91.20 | GABBRO Gb. Fine grained becoming progressively courser to 82.2. 82.2 to 87.65 coarse grained, 65 to 70% hornblende phenocryst 2 mm across and 3 mm long aligned parallel to foliation in a fine grained matrix of hornblende and white feldspar. Hornblende crystal are medium green. 87.65 to 91.2 fine grained green B Volc. 2 to 3% carbonate veins to 1 cm. 78.5 to 78.9 carbonate vein. In areas of carbonate veinlets core has been altered to chlorite. Moderately developed foliation at 45 to 63 degrees to the core axis. 77.45 78.45 Carbonate veinlets chlorite alteration. 77.46 91.20 Rock RQD 100%. 78.45 79.45 Carbonate vein 40 cm. | 20714 | 77.45 | 78.45 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| | | | 20715 | 78.45 | 79.45 | 1.00 | TR | .01 | n/a | n/a | .01 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 91.20 | 93.10 | POTASSIC BASALT 3. Medium grained, dark brown, phlogopite rich potassic basalt 20 to 25% carbonate veinlets parallel to foliation. Well developed foliation at 60 to 67 degrees to the core axis. 91.21 93.10 Rock RQD 100%. | | | | | | | | | |
| 93.10 | 107.45 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. 30 to 35% b beds composed of 20;25% laminae magnetite in cherty matrix. Beds 1 to 1.5 cm. 15 to 20% chert beds with 5 to 10% magnetite laminae to 1 cm. 25 to 30% f beds, 3 to 10 mm, with 5 to locally 15% euhedral garnets to 2 mm. Weakly to moderately chloritized. 2 to 3% quartz veins to 2 cm generally parallel to bedding locally with pyrrhotite associated. 1 to 2% carbonate veins generally associated with quartz veins. 5 to 10% grunerite alteration of magnetite from 0% at top of unit increasing progressively to 10% toward lower contact. 93.1 to 94.0 core has been brecciated and intensely chloritized. Well preserved bedding at 55 to 65 degrees to the core axis Moderately developed fracture cleavage at 45 to 47 degrees to the core axis. Left limb folding axial plane 45 degrees to the core axis and 80 to 85 degrees to the core axis. | | | | | | | | | |
| 93.10 | 94.10 | 4bf quartz pyrrhotite. | 20716 | 93.10 | 94.10 | 1.00 | 1 | .55 | n/a | n/a | .55 |
| 93.11 | 107.45 | Rock RQD 100%. | | | | | | | | | |
| 94.10 | 95.10 | 4bf quartz pyrrhotite. | 20717 | 94.10 | 95.10 | 1.00 | TR-1 | .75 | n/a | n/a | .75 |
| 95.10 | 96.10 | 4bf quartz pyrrhotite, trace pyrite stringers. | 20718 | 95.10 | 96.10 | 1.00 | 2-3 | 1.71 | n/a | n/a | 1.71 |
| 96.10 | 97.10 | 4bf quartz pyrrhotite. | 20719 | 96.10 | 97.10 | 1.00 | 1-2 | 1.10 | n/a | n/a | 1.10 |
| 97.10 | 98.10 | 4bf. | 20720 | 97.10 | 98.10 | 1.00 | TR | .75 | n/a | n/a | .75 |
| 98.10 | 99.10 | 4bf. | 20721 | 98.10 | 99.10 | 1.00 | TR | .27 | n/a | n/a | .27 |
| 99.10 | 100.10 | 4bf. | 20722 | 99.10 | 100.10 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 100.10 | 101.10 | 4bf. | 20723 | 100.10 | 101.10 | 1.00 | TR | .96 | n/a | n/a | .96 |
| 101.10 | 102.10 | 4bf quartz pyrrhotite. | 20724 | 101.10 | 102.10 | 1.00 | TR | .82 | n/a | n/a | .82 |
| 102.10 | 103.10 | 4bf. | 20725 | 102.10 | 103.10 | 1.00 | TR | .21 | n/a | n/a | .21 |
| 103.10 | 104.10 | 4fa. | 20726 | 103.10 | 104.10 | 1.00 | TR | .96 | n/a | n/a | .96 |
| 104.10 | 105.10 | 4bfa. | 20727 | 104.10 | 105.10 | 1.00 | TR | 1.10 | n/a | n/a | 1.10 |
| 105.10 | 106.10 | 4bfa quartz-carbonate veins. | 20728 | 105.10 | 106.10 | 1.00 | TR | 1.51 | n/a | n/a | 1.51 |
| 106.10 | 107.45 | 4bfa quartz-carbonate pyrrhotite veins. | 20729 | 106.10 | 107.45 | 1.35 | TR | .89 | n/a | n/a | .89 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Pc | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | 10 to 15% grunerite alteration of magnetite as intense alteration on margins of beds and overprinting 'b' beds. Well preserved bedding at 0 to 35 degrees to the core axis steeper around fold closures. Moderately to well developed fracture cleavage at 40 to 55 degrees to the core axis. Traced open right limb folds axial plane 35 to 57 degrees to the core axis to 176.0 where folding becomes more intense and tighter with axial plane 40 to 45 degrees to the core axis. | | | | | | | | | |
| 153.20 | 154.70 | 4bfa. | 20749 | 153.20 | 154.70 | 1.50 | NIL | .02 | n/a | n/a | .02 |
| 153.21 | 181.20 | Rock RQD 100%. | | | | | | | | | |
| 154.70 | 156.20 | 4bfa. | 20750 | 154.70 | 156.20 | 1.50 | NIL | .09 | n/a | n/a | .09 |
| 156.20 | 157.70 | 4bfa. | 20751 | 156.20 | 157.70 | 1.50 | NIL | .02 | n/a | n/a | .02 |
| 157.70 | 159.20 | 4bfa. | 20752 | 157.70 | 159.20 | 1.50 | NIL | .02 | n/a | n/a | .02 |
| 159.20 | 160.70 | 4bfa. | 20753 | 159.20 | 160.70 | 1.50 | NIL | .09 | n/a | n/a | .09 |
| 160.70 | 162.20 | 4bfa. | 20754 | 160.70 | 162.20 | 1.50 | NIL | 1.09 | n/a | n/a | 1.09 |
| 162.20 | 163.70 | 4bfa. | 20755 | 162.20 | 163.70 | 1.50 | NIL | .21 | n/a | n/a | .21 |
| 163.70 | 165.50 | 4bfa. | 20756 | 163.70 | 165.50 | 1.80 | NIL | 1.78 | n/a | n/a | 1.78 |
| 165.50 | 166.70 | 4bfa. | 20757 | 165.50 | 166.70 | 1.20 | NIL | 1.51 | n/a | n/a | 1.51 |
| 166.70 | 168.20 | 4bfa. | 20758 | 166.70 | 168.20 | 1.50 | NIL | .62 | n/a | n/a | .62 |
| 168.20 | 169.70 | 4bfa. | 20759 | 168.20 | 169.70 | 1.50 | NIL | 1.23 | n/a | n/a | 1.23 |
| 169.70 | 171.20 | 4bfa. | 20760 | 169.70 | 171.20 | 1.50 | NIL | .01 | n/a | n/a | .01 |
| 171.20 | 172.70 | 4bfa. | 20761 | 171.20 | 172.70 | 1.50 | NIL | .01 | n/a | n/a | .01 |
| 172.70 | 174.20 | 4bfa. | 20762 | 172.70 | 174.20 | 1.50 | NIL | .02 | n/a | n/a | .02 |
| 174.20 | 175.70 | 4bfa. | 20763 | 174.20 | 175.70 | 1.50 | NIL | .55 | n/a | n/a | .55 |
| 175.70 | 177.20 | 4bfa. | 20764 | 175.70 | 177.20 | 1.50 | NIL | .09 | n/a | n/a | .09 |
| 177.20 | 178.70 | 4bfa. | 20765 | 177.20 | 178.70 | 1.50 | NIL | .01 | n/a | n/a | .01 |
| 178.70 | 180.20 | 4bfa. | 20766 | 178.70 | 180.20 | 1.50 | NIL | .01 | n/a | n/a | .01 |
| 180.20 | 181.70 | 4b(f)a. | 20767 | 180.20 | 181.70 | 1.50 | NIL | .01 | n/a | n/a | .01 |

181.70 195.10 CHERT - GRUNERITE IRON FORMATION

4a.

This unit consist almost entirely of chert grunerite with 1 to 2% magnetite as remnants of grunerite alteration. Less than or equal to 1% f beds, intensely chloritized. 1 to 2% pyrrhotite stringers and veins parallel to fracture cleavage.

194.0 to 195.5 massive chlorite beds to 80 cm with 1 to 2% garnets to 2 mm.

Poorly preserved bedding disrupted by fracture cleavage and folding at 50 to 70 degrees to the core axis.

Well developed fracture cleavage at 60 to 75 degrees to the core axis.

Left limb folds axial plane 40 to 47 degrees to the core axis.

181.70 183.20 4a.

20768 181.70 183.20 1.50 TR .01 n/a n/a .01

181.71 195.10 Rock RQD 100%.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M05577
PAGE NO: 10

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | NERUM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|--------|--------|-------|--------|---------|
| 183.20 | 184.70 | 4a. | 20769 | 183.20 | 184.70 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 184.70 | 186.20 | 4a. | 20770 | 184.70 | 186.20 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 186.20 | 187.70 | 4a. | 20771 | 186.20 | 187.70 | 1.50 | TR-0.5 | .01 | n/a | n/a | .01 |
| 187.70 | 189.20 | 4a. | 20772 | 187.70 | 189.20 | 1.50 | 3-5 | .01 | n/a | n/a | .01 |
| 189.20 | 190.70 | 4a. | 20773 | 189.20 | 190.70 | 1.50 | 5-10 | .01 | n/a | n/a | .01 |
| 190.70 | 192.20 | 4a. | 20774 | 190.70 | 192.20 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| 192.20 | 193.70 | 4a. | 20775 | 192.20 | 193.70 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| 193.70 | 195.20 | 4a quartz pyrrhotite, pyrite intense chlorite alteration of f. | 20776 | 193.70 | 195.20 | 1.50 | TR-1 | .02 | n/a | n/a | .02 |
| 195.20 | 196.10 | 4a as smpl 20776. | 20777 | 195.20 | 196.10 | .90 | TR | .62 | n/a | n/a | .62 |

196.10 199.45 BASALT

2.

Medium grained light green to medium green brown.
10 to 15% medium grained phlogopite developed.
Poorly to moderately developed foliation at 65 to 68 degrees to the core axis.

196.11 199.45 Rock RQD 100%.

196.45 205.40 GARNET-BIOTITE SCHIST / CHERT-GRUNERITE J.F.

4fa.

45 to 50% moderately to intensely chloritized f beds to 8 mm with 10 to 15% euhedral to subhedral garnets to 2 mm.
30 to 35% chert grunerite.

Trace magnetite noted at top of unit.

Unit is moderately to intensely silicified. 10 to 15% quartz uniformly distributed throughout unit.

Pyrrhotite occurs as stringers and veinlets.

Unit is intensely folded with left limb folds axial plane 45 to 65 degrees to the core axis.

Bedding highly variable due to folding.

199.45 200.45 4fa intensely silicified.

199.46 205.40 Rock RQD 100%.

200.45 201.45 4fa intensely silicified.

201.45 202.45 4fa moderately silicified.

202.45 203.45 4fa moderately silicified.

203.45 204.45 4fa intensely silicified.

204.45 205.40 4af intensely silicified.

| | | | | | | | | |
|-------|--------|--------|------|-------|-----|-----|-----|-----|
| 20778 | 199.45 | 200.45 | 1.00 | 10-15 | .01 | n/a | n/a | .01 |
| 20779 | 200.45 | 201.45 | 1.00 | 10-15 | .01 | n/a | n/a | .01 |
| 20780 | 201.45 | 202.45 | 1.00 | 5-8 | .55 | n/a | n/a | .55 |
| 20781 | 202.45 | 203.45 | 1.00 | 3-5 | .48 | n/a | n/a | .48 |
| 20782 | 203.45 | 204.45 | 1.00 | 5-10 | .27 | n/a | n/a | .27 |
| 20783 | 204.45 | 205.40 | .95 | 3-5 | .01 | n/a | n/a | .01 |

205.40 209.20 CHERT - GRUNERITE IRON FORMATION

4a.

This unit has been intensely flooded with quartz carbonate.

40 to 45% blue to white quartz and 15 to 20% carbonate.

30 to 35% yellow to yellow green grunerite.

2% Magnetite as mottled remnants in grunerite.

Trace pyrrhotite as rare veins.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5517
PAGE NO: 11

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | %Pc | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | poorly preserved bedding at 50 degrees to the core axis. | | | | | | | | | |
| 205.40 | 206.90 | ka. | 20784 | 205.40 | 206.90 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 205.41 | 209.20 | Rock RQD 100%. | | | | | | | | | |
| 206.90 | 208.40 | ka. | 20785 | 206.90 | 208.40 | 1.50 | WIL | .01 | n/a | n/a | .01 |
| 208.40 | 209.20 | ka. | 20786 | 208.40 | 209.20 | .80 | TR | 1.03 | n/a | n/a | 1.03 |
| 209.20 | 221.00 | BASALT | | | | | | | | | |
| | | 2. Fine grained, light green to light brown, phlogopite rich mafic. Phlogopite content increases toward bottom of hole. 20 to 25% blue quartz vein with minor carbonate component to 3 cm locally parallel to foliation generally cross cutting foliation. Moderately to well developed foliation at 50 to 65 degrees to the core axis. | | | | | | | | | |
| 209.20 | 210.70 | 2 5% 3 quartz veins. | 20787 | 209.20 | 210.70 | 1.50 | TR | .06 | n/a | n/a | .06 |
| 209.21 | 221.00 | Rock RQD 100%. | | | | | | | | | |
| 212.00 | 213.50 | 2 10% quartz veins. | 20788 | 212.00 | 213.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 215.00 | 216.50 | 2 15% quartz veins. | 20789 | 215.00 | 216.50 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 218.00 | 219.50 | 2 3% 2 quartz veins. | 20790 | 218.00 | 219.50 | 1.50 | TR | .01 | n/a | n/a | .01 |

221.00 221.00 END OF HOLE

CASING LEFT IN HOLE AND CAPPED.

LOGS STORED ON PROPERTY.

DRILLING BY MIDWEST DRILLING, 190 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 6624.9 6853.0 SURVEYED: YES

PLACER DONE INC.

LOCATION: 15+00N 4+60W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5570
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 509.0

ELEVATION: 5302.5

LOGGED BY: M. BECKETT

DIP: -63.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 14 - 23, 1988

STARTED: MARCH 13, 1988

COMPLETED: MARCH 22, 1988

CLAIM NO:

PURPOSE: TEST T MAIN ZONE ON 15+00N

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 13.00 | | -62.0 | 270.00 | | -54.0 |
| 30.00 | | -62.0 | 300.00 | | -53.0 |
| 60.00 | | -62.0 | 330.00 | | -51.0 |
| 90.00 | | -59.0 | 360.00 | | -49.5 |
| 120.00 | | -59.0 | 390.00 | | -48.5 |
| 150.00 | | -58.0 | 420.00 | | -47.0 |
| 180.00 | | -57.0 | 450.00 | | -47.0 |
| 210.00 | | -56.0 | 480.00 | | -45.0 |
| 240.00 | | -55.0 | 509.00 | | -43.0 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH Sp Au g/t RERUN REJECT AVERAGE

.00 14.70 OVERBURDEN
Sand, gravel, and boulders.

14.70 25.20 INTERMEDIATE TO MAFIC VOLCANICS

B volcanic.

Typical fine grained to medium grained medium green amphibole feldspar volcanic package.

Contains 5 to 8% medium grained brown phlogopite, generally disseminated throughout unit, but locally as poorly developed bands up to 3.0 cm.

3 to 5% white carbonate veins, rarely mixed with quartz, 0.1 to 9.0 cm, locally developed parallel to foliation, barren.

Well foliated at 35 to 55 degrees to the core axis.

Locally blocky, with gravelly chloritic sections over 7 to 15 cm.

14.70 25.20 Rock RQD 80% (overall).

23.90 24.50 B volc, carbonate veins.

19842 23.00 24.50 1.50 0 .55 n/a n/a .55

25.70 67.30 FELSIC TO INTERMEDIATE VOLCANICS

A volcanic.

Typical fine grained siliceous light grey, quartz feldspar

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | 1 to 3% rusty pyrite, locally developed as veinlets, stringers, and rare bands up to 1.0 cm sub parallel to foliation. Locally blocky, chloritic over 5 to 10 cm sections. 74.00 84.40 Rock RQD 90%. | | | | | | | | | |
| | | 74.00 75.50 B-3, 2 to 4% pyrite. | 19951 | 74.00 | 75.50 | 1.50 | 0 | .55 | n/a | n/a | .55 |
| | | 75.50 77.00 B-3, 2 to 4% pyrite. | 19952 | 75.50 | 77.00 | 1.50 | 0 | .34 | n/a | n/a | .34 |
| | | 77.00 79.50 B-3, quartz veins. | 19953 | 77.00 | 79.50 | 1.50 | 0 | .55 | n/a | n/a | .55 |
| | | 79.50 80.00 B-3, carbonate veins. | 19954 | 79.50 | 80.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |

84.40 89.70 GARNET-STAUROLITE-BIOTITE SCHIST

Mf.
Similar to 67.3.
Well foliated at 30 to 45 degrees to the core axis.
Nil sulphides.
Locally blocky, crumbly, but only weakly chloritized.
84.40 89.70 Rock RQD 75%.
86.90 87.35 Mafic wedge of B volcanic material, well foliated at 34 degrees to the core axis.

89.70 102.75 INTERMEDIATE TO MAFIC VOLCANICS

B volcanic.
Similar to 14.7.
Well foliated at 28 degrees to the core axis, increasing downhole to 41 to 49 degrees to the core axis below 94.5.
Unit very blocky throughout, with gravelly chloritic sections up to 25 cm. Breakage generally sub parallel to foliation, although many fractures with no preferred orientation are displayed.
89.70 102.75 Rock RQD 35 to 40%.
93.10 94.40 Poorly developed Mf unit, garnet poor, with 5 to 8% staurolite grains less than or equal to 1 mm. Foliated at 45 degrees to the core axis.

102.75 112.20 INTRAFORMATIONAL IRON FORMATION

2-4f.
69 to 65% 'f' beds, 1 to 10 cm, with 20 to 25% 1 to 3 mm subhedral garnets.
15 to 20% 0.5 to 1.7 cm chert beds, with rare biotite laminae. Beds occasionally contain grunerite laminae; grunerite better developed in lower 2.0 m of unit.
3 to 5% white feldspar crystals, less than or equal to 1 mm, disseminated throughout unit.
5 to 8% B volcanic material, locally developed in poorly defined bands up to 30 cm.
Well bedded at 57 to 62 degrees to the core axis.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

Poorly developed 'ea' band from 109.8 to 110.4, with rare blue quartz veins associated with trace to 1% pyrrhotite flecks and blebs up to 2 mm.

Occasional very broad, shallow right limb folds, with axial plane approx 51 degrees to the core axis.

102.75 104.25 2-4f, character sample.

19855 102.75 104.25 1.50 0 .27 n/a n/a .27

102.95 112.30 Rock RQD 90 to 95%.

104.25 105.75 2-4f, character sample.

19856 104.25 105.75 1.50 0 .01 n/a n/a .01

108.30 109.80 2-4f, character sample.

19857 108.30 109.80 1.50 0 .55 n/a n/a .55

109.80 110.40 2-4ef, quartz veins.

19858 109.80 110.40 .60 TR .02 n/a n/a .02

110.40 111.40 2-4f, character sample.

19859 110.40 111.40 1.00 0 .75 n/a n/a .75

111.40 112.30 2-4f, character sample.

19860 111.40 112.30 .90 0 .40 n/a n/a .40

112.30 114.60 INTRAFORMATIONAL IRON FORMATION

2-4ef.

Poorly developed unit, consisting of:

40% 'e' beds, 1 to 10 cm wide, moderately gruneritized, with 15 to 20% 3 to 9 mm subhedral garnets.

35% 'f' beds, concentrated into a broad band from 113.65 to 114.4 but locally developed up to 1.0 cm elsewhere.

Beds carry 15 to 20% 1 to 3 mm garnets.

20 to 25% garnet poor amphibole beds, locally developed up to 5 cm; moderately to heavily gruneritized.

3% chert beds, 0.2 to 0.5 cm, locally developed parallel to bedding, rarely boudinaged.

Moderately to well bedded at 40 to 60 degrees to the core axis.

Considerable folding throughout unit, left limb with fold axes 60 to 64 degrees to the core axis.

Quartz very rare.

Pyrrhotite occurs as well developed sulphide cement in 'e' beds, and occasionally as sulphide replacement in garnet poor amphibole beds. Pyrrhotite also occurs as 2 cm massive band from 112.73 to 112.75.

112.30 114.60 Rock RQD 95%.

112.30 113.30 2-4e.

19861 112.30 113.30 1.00 20 1.71 n/a n/a 1.71

113.30 114.60 2-4ef.

19862 113.30 114.60 1.30 5-10 1.37 n/a n/a 1.37

114.60 123.10 METASEDIMENT

MS.

Medium grained quartz feldspar rich metasediment, containing 3 to 5% very fine grained biotite displaying compositional banding into broad biotite rich and biotite poor bands up to 6 cm.

Biotite also occurs locally as fine laminae up to 2 mm parallel to compositional banding at 49 to 50 degrees to the core axis. Biotite weakly chloritized, but becoming

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Occasional very shallow right limb folds, with axial plane 72 to 76 degrees to the core axis. Well bedded at 35 to 41 degrees to the core axis. Contacts very well defined. Nil sulphides. 160.70 164.85 Rock RQD 100%. | | | | | | | | | |
| 164.85 | 184.70 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Similar to 14.7. Well foliated at 44 to 58 degrees to the core axis. 3 to 5% quartz-carbonate veins, less than or equal to 2.0 cm, associated with trace to 1% pyrrhotite veinlets. 164.85 184.70 Rock RQD 90 to 95%. | | | | | | | | | |
| | | 177.50 179.00 B volc, character sample. | 19880 | 177.50 | 179.00 | 1.50 | 0 | .89 | n/a | n/a | .89 |
| | | 179.00 180.50 B volc, quartz-carbonate veins. | 19881 | 179.00 | 180.50 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| | | 180.50 182.00 B volc, character sample. | 19882 | 180.50 | 182.00 | 1.50 | 0 | .48 | n/a | n/a | .48 |
| | | 183.10 184.70 Phlogopite content rises to 10 to 15%, disseminated. Locally garnetiferous (<1%) in lower 30 cm of unit. | | | | | | | | | |
| | | 187.20 184.70 B volc, character sample. | 19883 | 183.20 | 184.70 | 1.50 | 0 | .96 | n/a | n/a | .96 |
| 184.70 | 194.25 | INTRAFORMATIONAL IRON FORMATION 2-4f. Similar to 102.75, but with up to 10% very poorly developed 'ea' beds, bleached, heavily gruneritized with 1 to 2% 1 to 3 mm subhedral garnets. Chert beds rare. 5 to 10% B volcanic material in well defined bands up to 30 cm. Moderate compositional banding, but with well defined foliation at 57 to 70 degrees to the core axis. Locally developed pyrrhotite stringers at 52 to 63 degrees to the core axis; stringers less than or equal to 1 mm wide. Occasional fractures parallel to core axis, generally open, with carbonate chlorite skins and infilling. Gravelly sections rare. 184.70 194.25 Rock RQD 80%. | | | | | | | | | |
| | | 184.70 185.20 2-4f. | 19884 | 184.70 | 186.20 | 1.50 | TR-1 | .89 | n/a | n/a | .89 |
| | | 186.20 187.70 2-4f. | 19885 | 186.20 | 187.70 | 1.50 | TR | .81 | n/a | n/a | .81 |
| | | 187.70 189.20 2-4f(ea), character sample. | 19886 | 187.70 | 189.20 | 1.50 | 0 | .75 | n/a | n/a | .75 |
| | | 189.20 191.70 2-4f(ea). | 19887 | 189.20 | 191.70 | 1.50 | TR | .96 | n/a | n/a | .96 |
| | | 191.70 192.20 2-4f. | 19888 | 191.70 | 192.20 | 1.50 | TR-1 | .89 | n/a | n/a | .89 |
| | | 192.20 193.70 2-4f. | 19889 | 192.20 | 193.70 | 1.50 | 1-3 | .82 | n/a | n/a | .82 |
| | | 193.70 194.25 2-4f, character sample. | 19890 | 193.70 | 194.25 | .55 | 0 | 1.10 | n/a | n/a | 1.10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Well foliated and banded at 44 to 63 degrees to the core axis. | | | | | | | | | |
| | | 10% Quartz veins, 1.0 to 7.0 cm wide, sub parallel to compositional banding, associated with 1 to 3% pyrrhotite overall as veinlets, stringers, and rare poorly developed sulphide cement. | | | | | | | | | |
| | | Small, broad, open left limb fold at 231.7, with axial plane 10 degrees to the core axis. | | | | | | | | | |
| | | Local, well developed fracture cleavage at 19 to 25 degrees to the core axis. 2 to 3 mm dextral offset observed | | | | | | | | | |
| | | 229.30 235.10 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 229.30 230.30 2-4e, quartz veins. | 19899 | 229.30 | 230.00 | 1.50 | 3-5 | .69 | n/a | n/a | .69 |
| | | 230.80 232.30 2-4e, rare quartz veins. | 19900 | 230.80 | 232.30 | 1.50 | TR-1 | .48 | n/a | n/a | .48 |
| | | 232.30 233.80 2-4ef, 8 cm white quartz vein. | 19901 | 232.30 | 233.80 | 1.50 | TR-1 | .01 | n/a | n/a | .01 |
| | | 233.80 235.10 2-4ef. | 19902 | 233.80 | 235.10 | 1.30 | 1-3 | 1.09 | n/a | n/a | 1.09 |
| 235.10 | 261.25 | INTERMEDIATE TO MAFIC VOLCANICS | | | | | | | | | |
| | | B volcanic. | | | | | | | | | |
| | | Similar to 14.7. | | | | | | | | | |
| | | Well foliated at 31 to 50 degrees to the core axis. | | | | | | | | | |
| | | Rare poorly developed 'e' beds, in patches up to 10 cm, associated with trace to 1% pyrrhotite stringers. | | | | | | | | | |
| | | 235.10 261.25 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 235.10 236.80 B volc, character sample. | 19903 | 235.10 | 236.80 | 1.50 | 0 | .02 | n/a | n/a | .02 |
| | | 241.30 242.80 B volc - 2-4e, rare quartz-carbonate veins. | 19904 | 241.30 | 242.80 | 1.50 | TR-1 | .55 | n/a | n/a | .55 |
| | | 242.80 244.30 B volc, 'e' beds, quartz-carbonate veins. | 19905 | 242.80 | 244.30 | 1.50 | 1 | .01 | n/a | n/a | .01 |
| | | 244.30 245.80 B volc, character sample. | 19906 | 244.30 | 245.80 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 255.50 258.50 Similar to text, but with up to 15 phlogopite, disseminated. Quartz and carbonate content NOT unusually high in this section. | | | | | | | | | |
| 261.25 | 265.50 | GARNET - BIOTITE SCHIST | | | | | | | | | |
| | | 4f. | | | | | | | | | |
| | | 20 to 25% less than or equal to 1 mm pinhead garnets, in a massive to locally laminated biotite matrix. | | | | | | | | | |
| | | 3 to 5% chert stringers, less than or equal to 2 mm, parallel to biotite foliation. | | | | | | | | | |
| | | Rare heavily gruneritized 'b' beds, less than or equal to 1.3 cm. | | | | | | | | | |
| | | Foliation locally defined at 42 to 54 degrees to the core axis. | | | | | | | | | |
| | | Locally blocky, chloritic, over 5 to 10 cm. | | | | | | | | | |
| | | 261.25 265.50 Rock RQD 85 to 90%. | | | | | | | | | |
| | | 261.25 262.75 4f, character sample. | 19907 | 261.25 | 262.75 | 1.50 | 0 | .27 | n/a | n/a | .27 |
| | | 264.00 265.50 4f, character sample. | 19908 | 264.00 | 265.50 | 1.50 | 0 | .48 | n/a | n/a | .48 |

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | parallel to foliation. Rare gravelly patches, less than or equal to 10 cm. When breakage occurs parallel to foliation, broken surfaces are phlogopite rich. Rare 'ea' beds, developed over 20 to 25 cm, carrying up to 10% blue quartz veins associated with pyrrhotite as well developed sulphide cement, replacing all amphibole and grunerite, and as veins up to 1.5 cm sub parallel to bedding, cutting bedding at up to 90 degrees. Pyrrhotite locally as sulphide replacement of garnet poor amphibole beds. | | | | | | | | | |
| | | 336.60 354.25 Rock RQD 90%. | | | | | | | | | |
| | | 339.50 341.00 B-3, character sample. | 19938 | 339.50 | 341.00 | 1.50 | 0 | 1.30 | n/a | n/a | 1.30 |
| | | 341.00 342.50 B-3, quartz veins, rare garnets, sulphide replacement texture. | 19939 | 341.00 | 342.50 | 1.50 | 15 | 30.76 | n/a | n/a | 30.76 |
| | | 342.50 344.00 B-3, quartz rare. | 19940 | 342.50 | 344.00 | 1.50 | 0 | .02 | n/a | n/a | .02 |
| | | 347.00 348.50 B-3, poorly developed 20 cm 'e' band. | 19942 | 347.00 | 348.50 | 1.50 | 20 | 6.08 | n/a | n/a | 6.08 |
| | | 348.50 350.00 B, 2-4e, 5% quartz veins. | 19943 | 348.50 | 350.00 | 1.50 | 5-8 | 3.06 | n/a | n/a | 3.06 |
| | | 350.00 351.50 B volc, character sample. | 19944 | 350.00 | 351.50 | 1.50 | 0 | .55 | n/a | n/a | .55 |
| | | 352.75 354.25 B volc, character sample. | 19945 | 352.75 | 354.25 | 1.50 | 0 | .75 | n/a | n/a | .75 |
| 354.25 | 356.40 | INTRAFORMATIONAL IRON FORMATION 2-4ea. 50% Moderately gruneritized 'ea' beds, 1 to 2 cm, but formed into broad bands up to 45 cm. 35 to 40% B-3 material, as bands 10 to 25 cm. Well foliated and banded at 46 to 52 degrees to the core axis. 10% Quartz and quartz-carbonate veins, 0.6 to 1.5 cm, parallel to bedding, associated with 1 to 3% pyrrhotite veinlets in quartz and occasional poorly developed sulphide replacement of amphibole. | | | | | | | | | |
| | | 354.25 356.40 Rock RQD 95%. | | | | | | | | | |
| | | 354.25 355.25 2-4ea, quartz veins. | 19946 | 354.25 | 355.25 | 1.00 | 2-4 | .41 | n/a | n/a | .41 |
| | | 355.25 356.40 2-4ea, quartz veins. | 19947 | 355.25 | 356.40 | 1.15 | 1-3 | .40 | n/a | n/a | .40 |
| 356.40 | 361.20 | INTERMEDIATE TO MAFIC VOLCANICS F volcanic. Similar to 14.7. Well foliated at 30 to 47 degrees to the core axis. Rare quartz-carbonate veins, less than or equal to 4 mm, locally developed, associated with 1 to 2% pyrrhotite stringers. | | | | | | | | | |
| | | 356.40 361.20 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 356.40 357.90 B volc, quartz-carbonate vein. | 19948 | 356.40 | 357.90 | 1.50 | 1-2 | .98 | n/a | n/a | .98 |
| | | 359.70 361.20 B volc, character sample. | 19949 | 359.70 | 361.20 | 1.50 | 0 | 1.03 | n/a | n/a | 1.03 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

I.F.
kfa.

40 to 45% 'f' beds, 0.6 to 13.0 cm, weakly chloritized, with 15 to 20% 1 to 2 mm subh garnets.

40% Heavily gruneritized 'ea' beds, 0.5 to 25.0 cm, with 10% 0.4 to 1.0 subhedral, locally glomeroporphyritic, garnets.

5% Chert beds, less than or equal to 1.0 cm, containing rare biotite laminae.

Well bedded at 51 to 55 degrees to the core axis.

Occasional broad, open left limb folds throughout unit, with axial plane 53 to 66 degrees to the core axis, although locally to 43 degrees to the core axis at 379.2.

3 to 5% blue quartz veins 0.5 to 1.6 cm, locally developed, parallel to bedding, associated with 1 to 2% pyrrhotite stringers and rare replacement of amphibole.

377.50 380.35 Rock RQD 95 to 100%.

377.50 379.00 kfa, quartz veins.

379.00 380.35 kfa, quartz veins rare.

| | | | | | | | | |
|-------|--------|--------|------|-----|-----|-----|-----|-----|
| 19858 | 377.50 | 379.00 | 1.50 | 1-2 | .96 | n/a | n/a | .96 |
| 19859 | 379.00 | 380.35 | 1.35 | TR | .82 | n/a | n/a | .82 |

383.35 388.45 INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT
B-3.

Similar to 367.9.

Well foliated at 50 to 61 degrees to the core axis.

1 to 3% white quartz veins, less than or equal to 4.5 cm, locally developed, barren.

locally blocky, fractured, with occasional carbonate infilling; fractures only rarely chloritized.

380.35 388.45 Rock RQD 85 to 90%.

380.35 381.85 B-3, character sample.

381.85 383.35 B-3, character sample.

383.35 384.85 B-3, character sample.

384.85 386.35 B-3, 15% quartz veins.

386.35 387.85 B-3, quartz-carbonate veins.

387.85 388.45 B-3, character sample.

| | | | | | | | | |
|-------|--------|--------|------|----|-----|-----|-----|-----|
| 19960 | 380.35 | 381.85 | 1.50 | 0 | .89 | n/a | n/a | .89 |
| 19961 | 381.85 | 383.35 | 1.50 | 0 | .69 | n/a | n/a | .69 |
| 19962 | 383.35 | 384.85 | 1.50 | 0 | .96 | n/a | n/a | .96 |
| 19963 | 384.85 | 386.35 | 1.50 | 0 | .75 | n/a | n/a | .75 |
| 19964 | 386.35 | 387.85 | 1.50 | 0 | .69 | n/a | n/a | .69 |
| 19965 | 387.85 | 388.45 | .60 | TR | .75 | n/a | n/a | .75 |

388.45 393.15 GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE
I.F.

kfa.

50 to 60% 'f' beds, 0.5 to 16.0 cm, locally weakly chloritized, with 15 to 20% 1 to 4 mm subhedral garnets.

25 to 30% moderately to heavily gruneritized 'ea' beds, less than or equal to 1.5 cm, better developed in upper 1.5 m and lower 50 cm of unit.

Well bedded at 53 to 63 degrees to the core axis.

20% Quartz, as a single large veins, 80 cm, from 389.7 to 389.5, associated with 5 to 7% pyrrhotite veinlets and

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %P | Au g/t | BERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | 4f. Similar to 268.05, but with 5 to 10% moderately to heavily gruneritized 'b' beds up to 5 mm. Well bedded at 69 to 77 degrees to the core axis. Small, tight left limb folds from upper contact to 422.5, with axial plane approx 59 degrees to the core axis. Antiformal fold closure, large, at 422.5 to 422.7, with axial plane 76 degrees to the core axis. Small, tight left limb folds from 422.7 to 427.3, with axial plane 53 degrees to the core axis. Nil sulphides. 421.40 423.70 Rock RQD 100%. | | | | | | | | | |
| | | 421.40 422.90 4f, character sample. | 19995 | 421.40 | 422.90 | 1.50 | 0 | 1.03 | n/a | n/a | 1.03 |
| | | 422.90 423.70 4f, character sample. | 19996 | 422.90 | 423.70 | .80 | 0 | .01 | n/a | n/a | .01 |
| 423.70 | 434.80 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ea. Similar to 393.15. Poorly to moderately bedded at 46 to 69 degrees to the core axis. 3 to 5% 'b' beds, 5 to 10 mm, locally developed, but increasing in abundance in lower 3.0 m of unit. 15 to 20% blue quartz, as veins up to 2.0 cm sub parallel to bedding, but as silicified zones over 2 to 3 m sections. Quartz associated with pyrrhotite as veinlets and stringers, and locally as well developed sulphide cement in silicified zones. Synformal fold closure, broad, open, at 425.4, with axial plane 34 degrees to the core axis. Rare left limb folds from 425.6 to lower contact, with axial plane 39 to 50 degrees to the core axis. Bedding improves below 432.0. Quartz content decreases in this interval and 'e' beds become heavily gruneritized. 423.70 434.80 Rock RQD 100%. | | | | | | | | | |
| | | 423.70 424.70 4ea, quartz veins. | 19997 | 423.70 | 424.70 | 1.00 | 1-3 | .41 | n/a | n/a | .41 |
| | | 424.70 425.70 4ea, quartz veins. | 19998 | 424.70 | 425.70 | 1.00 | 2-4 | .75 | n/a | n/a | .75 |
| | | 425.70 426.70 4ea, rare quartz veins. | 19999 | 425.70 | 426.70 | 1.00 | TR-1 | .62 | n/a | n/a | .62 |
| | | 426.70 427.70 4ea, quartz veins. | 20000 | 426.70 | 427.70 | 1.00 | 2-4 | .89 | n/a | n/a | .89 |
| | | 427.70 428.70 4ea, quartz veins, locally silicified. | 23001 | 427.70 | 428.70 | 1.00 | 5-7 | 4.16 | n/a | n/a | 4.16 |
| | | 428.70 429.70 4ea, silicified, quartz veins. | 23002 | 428.70 | 429.70 | 1.00 | 5-10 | 11.04 | n/a | n/a | 11.04 |
| | | 429.70 430.70 4ea, silicified. | 23003 | 429.70 | 430.70 | 1.00 | 5-10 | 8.89 | n/a | n/a | 8.89 |
| | | 430.70 431.70 4ea, poorly silicified. | 23004 | 430.70 | 431.70 | 1.00 | 1-2 | 10.70 | n/a | n/a | 10.70 |
| | | 431.70 432.70 4ea, quartz veins. | 23005 | 431.70 | 432.70 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| | | 432.70 433.70 4ea, quartz rare. | 23006 | 432.70 | 433.70 | 1.00 | TR | .48 | n/a | n/a | .48 |
| | | 433.70 434.80 4ea, quartz veins rare. | 23007 | 433.70 | 434.80 | 1.10 | TR | 1.44 | n/a | n/a | 1.44 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

434.80

434.80 to 436.30 heavily moderately to gruneritized 'b' beds, 0.4 to 2.5 cm, with 20 to 25% magnetite laminae.

30% 'f' beds, locally weakly chloritized, 0.3 to 1.0 cm, with up to 5% 1 to 3 mm subhedral garnets.

5 to 10% heavily gruneritized 'ea' beds, less than or equal to 8 mm, locally developed, with 1 to 3% subhedral garnets up to 3 mm.

3 to 5% chert beds, locally developed, up to 1.0 cm, generally with grunerite laminae at contact with 'b' beds.

Well bedded at 51 to 57 degrees to the core axis.

30 cm blue quartz vein, 438.05 to 438.35, associated with trace to 1% pyrrhotite stringers.

Local poorly developed fracture cleavage at 38 degrees to the core axis.

434.80 439.40 Rock RQD 100%.

434.80 436.30 434.80 436.30 1.50 0 .27 n/a n/a .27

436.30 437.80 436.30 437.80 1.50 TR .62 n/a n/a .62

437.80 439.40 437.80 439.40 1.60 TR-1 7.68 n/a n/a 7.68

23000 434.80 436.30 1.50 0 .27 n/a n/a .27
23009 436.30 437.80 1.50 TR .62 n/a n/a .62
23010 437.80 439.40 1.60 TR-1 7.68 n/a n/a 7.68

439.40 447.70 GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F.

4fb.

40 to 45% laminated 'f' beds, 0.5 to 4.0 cm, locally weakly chloritized, with up to 10% pinhead garnets.

30 to 35% 'b' beds, locally weakly gruneritized laminated to thinly bedded, up to 1.3 cm, with 10 to 15% magnetite laminae.

5% Magnetite poor chert beds, less than or equal to 2.0 cm, locally boudinaged.

Well bedded at 40 degrees to the core axis, increasing to 72 degrees to the core axis at 444.7, and then decreasing to 35 degrees to the core axis at lower contact.

Rare large white quartz veins, up to 40 cm, locally developed, associated with occasional pyrrhotite stringers in quartz.

Local crosscutting fracture cleavage at 90 degrees to bedding. Fractures carbonate filled up to 1 mm.

439.40 447.70 Rock RQD 100%.

439.40 445.20 Considerable left limb folding, with axial plane 46 to 60 degrees to the core axis (NB: fold axes less than or equal to bedding angle).

440.90 442.40 440.90 442.40 1.50 TR .01 n/a n/a .01

442.40 443.90 442.40 443.90 1.50 TR .21 n/a n/a .21

443.90 445.40 443.90 445.40 1.50 TR-1 .01 n/a n/a .01

445.40 445.70 445.40 445.70 1.50 0 .27 n/a n/a .27

445.30 445.70 Antiformal fold closure, broad, open with axial plane parallel to well developed

23011 439.40 440.90 1.50 TR .01 n/a n/a .01
23012 440.90 442.40 1.50 TR .21 n/a n/a .21
23013 442.40 443.90 1.50 TR-1 .01 n/a n/a .01
23014 443.90 445.40 1.50 0 .27 n/a n/a .27

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | and stringers. | | | | | | | | | |
| | | 458.55 463.90 Rock RQD 90%. | | | | | | | | | |
| | | 458.55 460.05 4fb, quartz veins. | 23023 | 458.55 | 460.05 | 1.50 | TR-1 | 3.77 | n/a | n/a | 3.77 |
| | | 460.05 461.55 4fb, 20% blue quartz veins. | 23024 | 460.05 | 461.55 | 1.50 | 1-2 | 2.13 | n/a | n/a | 2.13 |
| | | 461.55 463.05 4fb, 20% blue quartz veins. | 23025 | 461.55 | 463.05 | 1.50 | TR-1 | 3.15 | n/a | n/a | 3.15 |
| | | 463.05 463.90 4fb, quartz veins. | 23026 | 463.05 | 463.90 | .85 | 0 | 3.84 | n/a | n/a | 3.84 |
| 463.90 | 481.25 | GARNET-AMPHIBOLE-CHELT-GRUNERITE I.F. / CHELT-MAGNETITE I.F. 4eab. 50 to 55% heavily gruneritized 'ea' beds, 1.0 to 4.0 cm, with 20 to 25% 0.3 to 0.7 cm subhedral, locally glomeroporphyritic, garnets. 20 to 25% moderately to heavily gruneritized 'b' beds, less than or equal to 1.0 cm, with up to 10% disseminated magnetite. 15 to 20% magnetite poor blue chert beds, less than or equal to 1.4 cm, generally with very heavily gruneritized margins at contact with surrounding units. Less than or equal to 5% heavily chloritized 'f' beds, up to 8 mm, with trace to 1% subhedral garnets up to 3 mm. Moderately to well bedded at 26 to 33 degrees to the core axis. Considerable very shallow right limb folding throughout unit, axial plane 59 to 61 degrees to the core axis. Locally developed carbonate filled fracture cleavage, parallel to fold axes. 10 to 15% blue quartz, generally as veins up to 4.0 cm parallel to fold axes, but locally as silicified zones over 10 to 20 cm with associated moderate to intense bedding disruption. Quartz carries trace to 1% pyrrhotite veinlets and stringers. | | | | | | | | | |
| | | 463.90 481.25 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 463.90 465.40 4eab, quartz veins. | 23027 | 463.90 | 465.40 | 1.50 | TR | 1.37 | n/a | n/a | 1.37 |
| | | 465.40 466.90 4eab, quartz veins, silicified. | 23028 | 465.40 | 466.90 | 1.50 | TR | .75 | n/a | n/a | .75 |
| | | 466.90 468.40 4eab, quartz veins. | 23029 | 466.90 | 468.40 | 1.50 | TR-1 | .21 | n/a | n/a | .21 |
| | | 468.40 469.90 4eab, rare quartz veins. | 23030 | 468.40 | 469.90 | 1.50 | TR | .89 | n/a | n/a | .89 |
| | | 469.90 481.30 Folding similar to above, but fold axes decrease gradually to 33 to 38 degrees to the core axis although rarely to 56 degrees to the core axis at 470.9. | | | | | | | | | |
| | | 469.90 471.40 4eab, silicified, quartz veins. | 23031 | 469.90 | 471.40 | 1.50 | 0 | .75 | n/a | n/a | .75 |
| | | 471.40 472.90 4eab, rare quartz-carbonate veins. | 23032 | 471.40 | 472.90 | 1.50 | TR | .69 | n/a | n/a | .69 |
| | | 472.90 474.40 4eab. | 23033 | 472.90 | 474.40 | 1.50 | TR | .34 | n/a | n/a | .34 |
| | | 474.40 475.90 4eab. | 23034 | 474.40 | 475.90 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 475.90 477.40 4eab. | 23035 | 475.90 | 477.40 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 477.40 478.90 4eab, poorly silicified. | 23036 | 477.40 | 478.90 | 1.50 | 2-4 | 1.10 | n/a | n/a | 1.10 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 478.90 | 480.40 | leaf, rare quartz veins. | 23037 | 478.90 | 480.40 | 1.50 | 1-2 | .02 | n/a | n/a | .02 |
| 480.40 | 481.25 | leaf. | 23038 | 480.40 | 481.25 | .85 | TR | .55 | n/a | n/a | .55 |
| 481.25 | 487.00 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST leaf. Similar to 418.75, but with 30 to 35% 'f' beds, 0.5 to 4.0 cm, carrying 5 to 10% 2 to 3 mm subhedral garnets. 'ea' beds moderately to heavily gruneritized, up to 1.5 cm, with 10 to 15% 0.4 to 1.2 cm subhedral rarely glomeroporphyritic garnets. 5 to 10% 'b' beds, laminated to thinly bedded, with 1 to 3% magnetite. Moderately to well bedded at 28 to 37 degrees to the core axis, locally to 48 degrees to the core axis at 485.9. 10% Blue quartz, as veins 1 to 8 cm wide, generally with mild bedding disruption along vein margins. Quartz associated with. Occasional shallow right limb folds throughout unit, with axial plane 38 to 44 degrees to the core axis. 481.25 487.00 Rock RQD 100%. 481.25 482.75 leaf, quartz veins, poorly silicified. 482.75 484.25 leaf, quartz and quartz-carbonate veins. 484.25 485.75 leaf, occasional quartz veins. 485.75 487.00 leaf, 30 cm white quartz vein. | 23039 | 481.25 | 482.75 | 1.50 | TR-1 | 4.25 | n/a | n/a | 4.25 |
| | | | 23040 | 482.75 | 484.25 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | | 23041 | 484.25 | 485.75 | 1.50 | TR | .21 | n/a | n/a | .21 |
| | | | 23042 | 485.75 | 487.00 | 1.25 | TR | .55 | n/a | n/a | .55 |
| 487.00 | 494.40 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION leaf. Similar to 393.15. Moderately bedded at 35 to 46 degrees to the core axis, decreasing below 491.0 to approx 28 degrees to the core axis. 15 to 20% quartz as veins up to 1.5 cm, but also as silicified zones up to 25 cm with moderate to locally intense bedding disruption. Quartz associated with pyrrhotite as veinlets and stringers, often occurring as fracture cleavage infilling. Where better developed, pyrrhotite occurs as sulphide cement in 'ea' beds. Occasional shallow right limb folds throughout unit; fold axes not determined. Antiformal fold closure at 490.05, broad, open with axial plane 58 degrees to the core axis. 487.00 494.40 Rock RQD 100%. 487.00 488.00 leaf, occasional quartz veins. 488.00 489.00 leaf, quartz veins, silicified. 489.00 490.00 leaf, occasional quartz veins. | 23043 | 487.00 | 488.00 | 1.00 | 3-5 | 12.34 | n/a | n/a | 12.34 |
| | | | 23044 | 488.00 | 489.00 | 1.00 | 5-8 | 13.58 | 12.20 | n/a | 12.89 |
| | | | 23045 | 489.00 | 490.00 | 1.00 | 2-4 | 3.02 | n/a | n/a | 3.02 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MHS578
PAGE NO: 25

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | REBUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 490.00 | 491.00 | 4ea, rare quartz veins. | 23046 | 490.00 | 491.00 | 1.00 | 3-5 | 6.79 | n/a | n/a | 6.79 |
| 491.00 | 492.00 | 4ea, silicified, 1 speck visible gold at 491.0. | 23047 | 491.00 | 492.00 | 1.00 | 5-7 | 4.80 | 5.42 | n/a | 5.11 |
| 492.00 | 493.00 | 4ea, occasional quartz veins. | 23048 | 492.00 | 493.00 | 1.00 | 1-3 | 2.13 | n/a | n/a | 2.13 |
| 493.00 | 493.90 | 4ea, axial planar pyrrhotite. | 23049 | 493.00 | 493.90 | .90 | 1 | .91 | n/a | n/a | .91 |
| 493.90 | 494.40 | 4ea. | 23050 | 493.90 | 494.40 | .50 | TR | .62 | n/a | n/a | .62 |
| 494.40 | 498.20 | GARNET - BIOTITE SCHIST 4f. Similar to 273.7, with 5 to 10% poorly developed chert beds, less than or equal to 5 mm, with rare biotite laminae Up to 5% heavily gruneritized 'ea' beds, 0.5 to 2.5 cm, with 1 to 3% 2 to 4 mm subhedral garnets. Well bedded and foliated at 32 to 45 degrees to the core axis. Rare very shallow right limb folds, with axial plane 52 degrees to the core axis. Locally blocky, with gravelly section over 10 cm. | | | | | | | | | |
| 494.40 | 498.20 | Rock RQD 90%. | | | | | | | | | |
| 494.40 | 495.90 | 4f, character sample. | 23051 | 494.40 | 495.90 | 1.50 | 0 | 1.10 | n/a | n/a | 1.10 |
| 495.90 | 497.40 | 4f, character sample. | 23052 | 495.90 | 497.40 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| 497.40 | 498.20 | 4f, character sample. | 23053 | 497.40 | 498.20 | .80 | 0 | .69 | n/a | n/a | .69 |
| 498.20 | 502.30 | GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION 4ea. Similar to 498.2. Garnets locally develop orange cast, especially near upper contact. Moderately bedded, but variable due to folding. Considerable folding, generally right limb, axial plane 33 to 55 degrees to the core axis. Locally developed fracture cleavage, carbonate filled at 48 degrees to the core axis. Small left limb fold at 501.1, axial plane 58 degrees to the core axis. 10% Blue quartz veins up to 1.5 cm, associated with 1 to 2%, locally 3 to 5% pyrrhotite stringers parallel to axial planes, and as blebs up to 1 mm in 'ea' beds. Occasionally blocky, although gravelly sections very rare. | | | | | | | | | |
| 498.20 | 502.30 | Rock RQD 90 to 95%. | | | | | | | | | |
| 498.20 | 499.70 | 4ea, quartz veins. | 23054 | 498.20 | 499.70 | 1.50 | 3-5 | 3.70 | n/a | n/a | 3.70 |
| 499.70 | 501.20 | 4ea, rare quartz veins, axial planar pyrrhotite. | 23055 | 499.70 | 501.20 | 1.50 | 1-2 | 2.61 | n/a | n/a | 2.61 |
| 501.20 | 502.30 | 4ea. | 23056 | 501.20 | 502.30 | 1.10 | 1-2 | .62 | n/a | n/a | .62 |

503.80 GARNET - BIOTITE SCHIST
4f.

REF CORC: 0101.5 5750.1 SURVEYED: YES

PLACER DOME INC.

LOCATION: 34+00N 2+75W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: M5570
PROPERTY: NORTHWESTERN ONTARIO
MUSSELWHITE GRUBSTAKE (1073)

POST LOCATION:

SECTION:

AZIMUTH: 49.5

LENGTH: 306.5

ELEVATION: 5302.5

LOGGED BY: PAUL GERTZBEIN AND MARTYN BECKETT

DIP: -56.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 18 - 23, 1988

STARTED: MARCH 18, 1988

COMPLETED: MARCH 22, 1988

CLAIM NO:

PURPOSE: TEST DOWN PLUNGE ESKER ZONE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 21.00 | | -57.5 | 100.00 | | -47.0 |
| 30.00 | | -55.0 | 210.00 | | -44.0 |
| 80.00 | | -54.5 | 240.00 | | -42.0 |
| 90.00 | | -52.5 | 270.00 | | -38.0 |
| 120.00 | | -50.5 | 300.00 | | -37.5 |
| 150.00 | | -49.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|----|--------|-------|--------|---------|

.00 24.10 OVERBURDEN

Sand, boulders, and occasional boulders of B volcanic material up to 1.6 m intermixed with granitoid and tonalitic cobbles at bedrock interface.

24.10 26.30 INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT

B-3.

40 to 50% medium green fine grained amphibole feldspar bands up to 1 cm, interbanded with 40 to 50% 0.5 to 1.0 cm medium grained brown phlogopite layers.

Well foliated and banded at 50 to 58 degrees to the core axis.

5% White carbonate veinlets less than or equal to 6 mm, parallel to foliation. Veinlets barren.

Very blocky throughout, with gravelly sections in upper 60 cm and lower 30 cm.

24.10 26.30 Rck RQD 25 to 30%.

26.30 65.55 FELSIC TO INTERMEDIATE VOLCANICS

Intermediate A volcanic.

Fine grained to medium grained light to medium grey quartz feldspar volcanic package.

Contains 10 to 15% brown phlogopite, as local bands up to 4 mm, better developed in upper 3.0 m of unit. Phlogopite disseminated elsewhere.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | REGRH | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | grunerite matrix. | | | | | | | | | |
| | | 15 to 20% green, amphibole rich e beds and remnants of e beds in ea beds. E beds are generally overprinted by grunerite or gruneritized on margins of beds. | | | | | | | | | |
| | | 20 to 25% chert beds 0.5 to 1.5 cm locally replaced by quartz flooding. | | | | | | | | | |
| | | 5 to 8% magnetite as laminae in chert beds and remnants in gruneritized beds. 0% at top of unit increasing in concentration toward bottom of unit. | | | | | | | | | |
| | | 2% I F beds concentrated toward bottom of unit. | | | | | | | | | |
| | | 2% I Carbonate as veins and veinlets associated with quartz flooding. | | | | | | | | | |
| | | Moderately to well preserved bedding at 55 to 70 degrees to the core axis. | | | | | | | | | |
| | | 193.95 to 208.0 left limb folding axial plane 35 to 63 degrees to the core axis decreasing down hole. | | | | | | | | | |
| | | 208.0 to 212.0 rare right limb folds axial plane 60 to 77 degrees to the core axis. | | | | | | | | | |
| | | 212.0 to 218.0 left limb folding axial plane 63 to 67 degrees to the core axis. | | | | | | | | | |
| | | 218.0 to 219.6 right limb folding axial plane axial plane 60 to 69 degrees to the core axis. | | | | | | | | | |
| 193.95 | 195.00 | 4ea moderately silicified. | 22079 | 193.95 | 195.00 | 1.05 | 5-8 | .39 | n/a | n/a | .39 |
| 193.96 | 219.60 | Rock RQD 100%. | | | | | | | | | |
| 195.00 | 196.00 | 4ea moderately silicified. | 22080 | 195.00 | 196.00 | 1.00 | 5-8 | 1.03 | n/a | n/a | 1.03 |
| 196.00 | 197.00 | 4ea moderately silicified. | 22081 | 196.00 | 197.00 | 1.00 | 3-5 | 2.70 | n/a | n/a | 2.70 |
| 197.00 | 198.00 | 4ea intensely silicified. | 22082 | 197.00 | 198.00 | 1.00 | 5-10 | 10.26 | n/a | n/a | 10.26 |
| 199.00 | 199.00 | 4ea intensely silicified. | 22083 | 199.00 | 199.00 | 1.00 | 5-8 | 4.94 | n/a | n/a | 4.94 |
| 199.00 | 200.20 | 4ea intensely silicified 2 spacts visible gold | 22084 | 199.00 | 200.20 | 1.20 | 5-10 | 10.88 | n/a | n/a | 10.88 |
| 200.20 | 201.00 | 4ea weakly silicified. | 22085 | 200.20 | 201.00 | .80 | TR | .21 | n/a | n/a | .21 |
| 201.00 | 202.00 | 4ea weakly silicified. | 22086 | 201.00 | 202.00 | 1.00 | TR-1 | .96 | n/a | n/a | .96 |
| 202.00 | 203.00 | 4ea. | 22087 | 202.00 | 203.00 | 1.00 | TR | .82 | n/a | n/a | .82 |
| 203.00 | 204.00 | 4ea weakly silicified. | 22088 | 203.00 | 204.00 | 1.00 | 1 | 1.51 | n/a | n/a | 1.51 |
| 204.00 | 205.00 | 4ea weakly silicified. | 22089 | 204.00 | 205.00 | 1.00 | 1-2 | 4.73 | n/a | n/a | 4.73 |
| 205.00 | 206.00 | 4ea. | 22090 | 205.00 | 206.00 | 1.00 | TR | 1.37 | n/a | n/a | 1.37 |
| 206.00 | 207.00 | 4ea. | 22091 | 206.00 | 207.00 | 1.00 | 1 | 4.25 | n/a | n/a | 4.25 |
| 207.00 | 208.00 | 4ea quartz pyrrhotite. | 22092 | 207.00 | 208.00 | 1.00 | 5-8 | 4.91 | n/a | n/a | 4.91 |
| 208.00 | 209.00 | 4eb quartz pyrrhotite. | 22093 | 208.00 | 209.00 | 1.00 | TR-1 | .75 | n/a | n/a | .75 |
| 209.00 | 210.00 | 4eb, 4ea weakly to moderately silicified. | 22094 | 209.00 | 210.00 | 1.00 | 3-5 | 4.80 | n/a | n/a | 4.80 |
| 210.00 | 211.00 | 4ea intensely silicified. | 22095 | 210.00 | 211.00 | 1.00 | TR-1 | 9.69 | n/a | n/a | 9.69 |
| 211.00 | 212.00 | 4eab moderately silicified. | 22096 | 211.00 | 212.00 | 1.00 | 1-2 | .82 | n/a | n/a | .82 |
| 212.00 | 213.00 | 4eab moderately silicified. | 22097 | 212.00 | 213.00 | 1.00 | 5-10 | 5.85 | n/a | n/a | 5.85 |
| 213.00 | 214.00 | 4ea intensely silicified. | 22098 | 213.00 | 214.00 | 1.00 | 3-5 | 4.55 | n/a | n/a | 4.55 |
| 214.00 | 215.00 | 4ea intensely silicified. | 22099 | 214.00 | 215.00 | 1.00 | 5-8 | 1.81 | n/a | n/a | 1.81 |
| 215.00 | 216.00 | 4eba. | 22100 | 215.00 | 216.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 216.00 | 217.00 | 4eab. | 22101 | 216.00 | 217.00 | 1.00 | TR | 1.09 | n/a | n/a | 1.09 |
| 217.00 | 218.00 | 4eab weakly silicified. | 22102 | 217.00 | 218.00 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 218.00 | 219.00 | 4eab weakly silicified. | 22103 | 218.00 | 219.00 | 1.00 | TR | 1.03 | n/a | n/a | 1.03 |
| 219.00 | 219.60 | 4eab. | 22104 | 219.00 | 219.60 | .60 | TR | .82 | n/a | n/a | .82 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | gPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 219.60 | 231.05 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST leaf. 30 to 35% ea beds poorly developed, heavily gruneritized, 15 to 20% subhedral to amorphous garnets to 3 mm. 15 to 20% f beds 1 to 3 cm with 5 to 10% euhedral garnets to 2 mm supported in a brown to black matrix of medium grained biotite. 15 to 20% green, amphibole rich e beds and remnants of e beds associated with gruneritized beds. 10 to 15% chert beds 1 to 2 cm with rare magnetite laminae. 3 to 5% magnetite as rare laminae in chert beds and disseminated in e beds and gruneritized beds. E beds contain 2 to 3% euhedral garnets to 3 mm. 3 to 5% quartz veining/flooding. 1 to 2% carbonate veins, generally parallel to bedding, and as fracture cleavage filling. Well preserved bedding at 54 to 65 degrees to the core axis Moderately developed fracture cleavage at 63 to 80 degrees to the core axis. 219.6 to 227.3 right limb folding axial plane 68 to 74 degrees to the core axis. 227.3 to 231.05 M style folding axial plane 67 to 80 degrees to the core axis. 228.75 Synformal fold closure. 219.60 231.05 Rock RQD 100%. | | | | | | | | | |
| 219.60 | 221.00 | leaf. | 22105 | 219.60 | 221.00 | 1.40 | TR | .89 | n/a | n/a | .89 |
| 221.00 | 222.50 | leaf. | 22106 | 221.00 | 222.50 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 222.50 | 224.00 | leaf. | 22107 | 222.50 | 224.00 | 1.50 | TR | .69 | n/a | n/a | .69 |
| 224.00 | 225.50 | leaf. | 22108 | 224.00 | 225.50 | 1.50 | TR | .81 | n/a | n/a | .81 |
| 225.50 | 227.00 | leaf weakly silicified. | 22109 | 225.50 | 227.00 | 1.50 | TR-1 | .86 | n/a | n/a | .86 |
| 227.00 | 228.50 | leaf weakly silicified. | 22110 | 227.00 | 228.50 | 1.50 | 1-2 | 1.03 | n/a | n/a | 1.03 |
| 228.50 | 230.00 | leaf weakly silicified. | 22111 | 228.50 | 230.00 | 1.50 | 1 | .89 | n/a | n/a | .89 |
| 230.00 | 231.05 | leaf. | 22112 | 230.00 | 231.05 | 1.05 | TR | 1.65 | n/a | n/a | 1.65 |

231.05 239.90 GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION

leaf.
As described 193.95 to 219.6.
5 to 8% magnetite present throughout.
Less than or equal to 1% carbonate associated with quartz flooding.
Moderately to well preserved bedding at 54 to 70 degrees to the core axis.
231.05 to 234.2 left limb folding axial plane 73 to 85 degrees to the core axis.
234.2 to 239.9 right limb folding axial plane 58 to 70

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| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | BERUM | REJECT | AVERAGE |
|--------|--------|----------------------------|--------|--------|--------|--------|-------|--------|-------|--------|---------|
| | | degrees to the core axis. | | | | | | | | | |
| 231.05 | 239.90 | Rock 90%. | | | | | | | | | |
| 231.05 | 232.00 | 4ea. | 22113 | 231.05 | 232.00 | .95 | TR | .06 | n/a | n/a | .96 |
| 232.00 | 233.00 | 4ea moderately silicified. | 22114 | 232.00 | 233.00 | 1.00 | 1-2 | 1.51 | n/a | n/a | 1.51 |
| 233.00 | 234.00 | 4ea moderately silicified. | 22115 | 233.00 | 234.00 | 1.00 | 1-2 | 3.09 | n/a | n/a | 3.09 |
| 234.00 | 235.00 | 4ea moderately silicified. | 22116 | 234.00 | 235.00 | 1.00 | 1-2 | 1.78 | n/a | n/a | 1.78 |
| 235.00 | 236.00 | 4ea weakly silicified. | 22117 | 235.00 | 236.00 | 1.00 | TR-1 | 1.51 | n/a | n/a | 1.51 |
| 236.00 | 237.00 | 4ea moderately silicified. | 22118 | 236.00 | 237.00 | 1.00 | 1-2 | 3.25 | n/a | n/a | 3.25 |
| 237.00 | 238.00 | 4ea intensely silicified. | 22119 | 237.00 | 238.00 | 1.00 | 10-15 | 11.13 | n/a | n/a | 11.13 |
| 238.00 | 239.00 | 4ea intensely silicified. | 22120 | 238.00 | 239.00 | 1.00 | 5-10 | 4.21 | n/a | n/a | 4.21 |
| 239.00 | 239.90 | 4ea intensely silicified. | 22121 | 239.00 | 239.90 | .90 | 5-8 | 3.25 | n/a | n/a | 3.25 |

239.90 250.65 GARNET - Biotite Schist

4f.
85 to 90% beds and or banding well preserved with 20 to 25% euhedral to subhedral garnets to 2 mm, forming compositional bands.
5 to 8% chert beds to 1 cm.
less than or equal to 1% e beds associated with chert and gruneritized beds.
1 to 2% heavily grunerite beds to 8 mm.
Upper contact gradational over 1.5 meters.
Bedding at 49 to 57 degrees to the core axis.

| | | | | | | | | | | | |
|--------|--------|---------------|-------|--------|--------|------|----|-----|-----|-----|-----|
| 239.90 | 241.40 | 4f. | 22122 | 239.90 | 241.40 | 1.50 | TR | .41 | n/a | n/a | .41 |
| 239.91 | 243.20 | Rock RQD 85%. | | | | | | | | | |
| 241.40 | 242.90 | 4f char smpl. | 22123 | 241.40 | 242.90 | 1.50 | TR | .21 | n/a | n/a | .21 |
| 242.90 | 244.40 | 4f char smpl. | 22124 | 242.90 | 244.40 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 243.21 | 245.00 | Rock RQD 35%. | | | | | | | | | |
| 245.01 | 250.60 | Rock RQD 85%. | | | | | | | | | |
| 249.15 | 250.65 | 4f char smpl. | 22125 | 249.15 | 250.65 | 1.50 | TR | .01 | n/a | n/a | .01 |

250.65 260.55 Chert-Magnetite I.F. / Garnet-Biotite Schist

4bfa.
40 to 45% b beds, generally consisting of 30 to 35% laminae magnetic overprinted by grunerite. B beds from 250.65 to 254.0 contain 5 to 10% magnetite as laminae. B beds generally less than or equal to 1 cm.
30 to 35% f beds dark green, weakly to moderately chloritized with 10 to 15% pinhead sized garnets.
5 to 10% grunerite alteration overprinting magnetite.
3 to 5% dark green amphibole rich e beds 2 to 4 mm with few gar to 3 mm. E beds tend to be concentrated at top of unit.
2 to 3% quartz veins to 1 cm locally with pyrrhotite associated.
Well preserved bedding at 56 to 70 degrees to the core axis
Tight left limb climbing folds axial plane 50 to 56

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | Wp | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-----------------------|--------|------|----|--------|----|--------|-------|--------|---------|
|------|----|-----------------------|--------|------|----|--------|----|--------|-------|--------|---------|

Fine grained, light green mafic.
10 to 15% phlogopite developed throughout, forming bands to 2 mm.
Core shows chlorite alteration throughout.
Well developed foliation at 69 to 76 degrees to the core axis.
293.01 305.60 Rock RQD 75%.

305.60 306.50 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.
4ba.

55 to 60% laminae magnetite in beds to 2 mm alternating with laminae of grunerite to 1 mm.
25 to 30% grunerite alteration of magnetite.
5 to 8% chert beds to 1 cm with no magnetite.
1 to 2% carbonate veins to 2 cm parallel to bedding.
Well preserved bedding at 60 degrees to the core axis.

305.60 306.50 4ba.
305.61 306.50 Rock RQD 100%.

22151 305.60 306.50 .90 NIL 1.10 n/a n/a 1.10

305.50 306.50 END OF HOLE

HOLE CEMENTED AND CASING PULLED.

CORE STORED ON PROPERTY.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 2202.9 2700.5 SURVEYED: YES

PLACER DONE INC.

LOCATION: 148+00E 106+00W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: MUS500
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 67.5 LENGTH: 317.0 ELEVATION: 5300.0 LOGGED BY: M BECKETT

DIP: -45.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC DATE LOGGED: MAR 21 - 27, 1988

STARTED: MAR 20, 1988 COMPLETED: MAR 26, 1988 CLAIM NO:

PURPOSE: WILDCAT HOLE ON BOTTENFIELD LINE

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 30.00 | | -42.0 | 180.00 | | -33.0 |
| 60.00 | | -41.0 | 210.00 | | -31.0 |
| 90.00 | | -39.0 | 240.00 | | -27.5 |
| 120.00 | | -35.0 | 270.00 | | -24.0 |
| 150.00 | | -34.0 | 300.00 | | -21.0 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t REURH REJECT AVERAGE

.00 12.30 OVERBURDEN
Sand, gravel, boulders.

12.30 14.40 INTERMEDIATE TO MAFIC VOLCANICS
B volcanic.
Typical fine grained to medium grained medium homogeneous green amphibole feldspar volcanic package.
Well foliated at 61 to 62 degrees to the core axis.
5 to 10% carbonate veins 1.4 to 2.0 cm, parallel to foliation. Veins barren.
Unit coarsens slightly in lower 50 cm, with amphibole crystals up to 2 mm.
Locally blocky over 10 cm sections; broken surfaces chloritic with occasional mild rusty staining.
12.30 14.40 Fock RQD 80%.

14.40 16.65 POTASSIC BASALT
3.
90 to 95% medium grained brown phlogopite, supporting 1 to 2% subhedral garnets less than or equal to 1 mm.
1 to 3% carbonate veins, locally developed up to 6 mm, parallel to foliation.
Well foliated at 64 degrees to the core axis.
Upper 50 cm of unit very blocky, friable, with considerable rusty alteration 14.40 14.90 3, character sample.

20791 14.40 14.90 .50 0 .69 n/a n/a .89

PLACER DOME INC.
DIAMOND DRILL RECORD

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| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|---|--------|-------|-------|--------|------|--------|-------|--------|---------|
| 69.60 | 71.10 | 4fb, metasediment, quartz veins. | 20799 | 69.60 | 71.10 | 1.50 | 1-2 | .86 | n/a | n/a | .86 |
| 70.40 | 70.80 | Metasediment > 90% quartz, trace biotite laminae, well bedded at 63 to 70 degrees to the core axis. | | | | | | | | | |
| 71.10 | 72.60 | 4fb, quartz-carbonate veins. | 20800 | 71.10 | 72.60 | 1.50 | TR-1 | .41 | n/a | n/a | .41 |
| 72.60 | 73.25 | 4fb, rare quartz-carbonate veins. | 20801 | 72.60 | 73.25 | .65 | 1 | .70 | n/a | n/a | .01 |
| 73.25 | 94.90 | INTERMEDIATE TO MAFIC VOLCANICS B volcanic. Similar to 16.65. Well foliated at 57 to 64 degrees to the core axis, decreasing downhole to 39 to 43 degrees to the core axis below 81.5. 5 to 10% '4be' units, as broad bands 20 to 100 cm; amphibole beds 0.3 to 1.0 cm, contain no garnets. '4be' material contains 1 to 3% pyrrhotite stringers and veinlets associated with rare quartz-carbonate veins up to 1.0 cm. Locally blocky, chloritic, in B volcanic material, with rare gravelly patches. | | | | | | | | | |
| 73.25 | 82.50 | Rock RQD 98 to 95%. | | | | | | | | | |
| 75.50 | 76.50 | B volc, character sample. | 20802 | 75.50 | 76.50 | 1.00 | 0 | .55 | n/a | n/a | .55 |
| 76.50 | 77.55 | 4be, rare quartz-carbonate veins. | 20803 | 76.50 | 77.55 | 1.05 | 1-3 | .82 | n/a | n/a | .82 |
| 77.55 | 79.05 | B volc, character sample. | 20804 | 77.55 | 79.05 | 1.50 | 0 | .27 | n/a | n/a | .27 |
| 81.00 | 82.50 | B volc, character sample. | 20805 | 81.00 | 82.50 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 82.50 | 84.90 | Rock RQD 70%. | | | | | | | | | |
| 82.50 | 84.00 | B volc, quartz-carbonate veins. | 20806 | 82.50 | 84.00 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| 84.00 | 84.90 | B volc, trace pyrite skins. | 20807 | 84.00 | 84.90 | .90 | 0 | .48 | n/a | n/a | .48 |
| 84.90 | 90.25 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. 60 to 65% moderately to heavily gruneritized 'b' beds, laminated to thinly bedded in bands up to 3.5 cm, with 25 to 30% poorly developed magnetite laminae. 20 to 25% magnetite poor chert beds, less than or equal to 1.0 cm, generally with 1 to 3 mm grunerite laminae at contact with 'b' beds. 10 to 15% 'f' beds, 2 to 5 mm, moderately chloritized, with 1 to 2% subhedral garnets. Well bedded at 46 degrees to the core axis, increasing to 73 degrees to the core axis at lower contact. 3 to 5% quartz-carbonate veins, up to 2.0 cm, parallel to bedding, barren. Blocky, chloritic, over 50 to 70 cm sections. | | | | | | | | | |
| 84.90 | 90.25 | Rock RQD 80%. | | | | | | | | | |
| 84.90 | 86.40 | 4ba, carbonate-quartz veins. | 20808 | 84.90 | 86.40 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 86.40 | 87.90 | 4ba, quartz-carbonate veins. | 20809 | 86.40 | 87.90 | 1.50 | 0 | .55 | n/a | n/a | .55 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | gPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 87.90 | 89.40 | 4ba, character sample. | 20810 | 87.90 | 89.40 | 1.50 | 0 | .41 | n/a | n/a | .41 |
| 89.40 | 90.25 | 4ba, character sample. | 20811 | 89.40 | 90.25 | .85 | 0 | .34 | n/a | n/a | .34 |
| 90.25 | 114.50 | CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4ba(f). 60 to 65% moderately to heavily gruneritized 'b' beds, imparting a yellow cast to the entire unit. Magnetite occasionally occurs mottled within a grunerite matrix. 25 to 30% 'f' beds, 0.6 to 6.5 cm, weakly to moderately chloritized, with 5 to 10% 1 to 4 mm subhedral garnets. 5% Magnetite poor chert beds, less than or equal to 1.5 cm. Well bedded at 66 to 73 degrees to the core axis, decreasing downhole to 52 to 60 degrees to the core axis below 90.0, and then increasing to 59 to 75 degrees to the core axis below 102.0. 3 to 5% carbonate and carbonate-quartz veins, 0.3 to 10.0 cm, sub parallel to bedding, barren. Locally defined fracture cleavage, rarely carbonate filled, at 23 to 31 degrees to the core axis. Rare left limb folds, axial plane parallel to fracture cleavage. | | | | | | | | | |
| 90.25 | 114.50 | Rock RQD 90%. | | | | | | | | | |
| 90.25 | 91.75 | 4baf, carbonate-quartz veins. | 20812 | 90.25 | 91.75 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| 91.75 | 93.25 | 4baf, carbonate-quartz veins. | 20813 | 91.75 | 93.25 | 1.50 | 0 | .41 | n/a | n/a | .41 |
| 95.00 | 95.50 | 4baf, character sample. | 20814 | 95.00 | 95.50 | 1.50 | 0 | .55 | n/a | n/a | .55 |
| 98.00 | 99.50 | 4baf, character sample. | 20815 | 98.00 | 99.50 | 1.50 | 0 | .82 | n/a | n/a | .82 |
| 101.00 | 102.50 | 4baf, carbonate veins. | 20816 | 101.00 | 102.50 | 1.50 | 0 | .81 | n/a | n/a | .81 |
| 104.00 | 105.50 | 4baf, carbonate-quartz veins. | 20817 | 104.00 | 105.50 | 1.50 | 0 | .62 | n/a | n/a | .62 |
| 107.00 | 108.50 | 4baf, character sample. | 20818 | 107.00 | 108.50 | 1.50 | 0 | .81 | n/a | n/a | .81 |
| 110.00 | 111.50 | 4baf, character sample. | 20819 | 110.00 | 111.50 | 1.50 | 0 | .81 | n/a | n/a | .81 |
| 113.00 | 114.50 | 4baf, character sample. | 20820 | 113.00 | 114.50 | 1.50 | 0 | .75 | n/a | n/a | .75 |

114.50 119.75 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.
4ba.

Similar to 84.9, but very well laminated at 45 to 49 degrees to the core axis.

Less than or equal to 5% 'f' beds, up to 8 mm, moderately chloritized, with occasional pinhead garnets.

Locally developed fracture cleavage at 40 degrees to the core axis.

Rare quartz veins, less than or equal to 1.0 cm parallel to fracture cleavage, associated with 1 to 2% pyrrhotite veinlets and stringers, generally parallel to bedding planes, but locally as veinlets parallel to fracture cleavage.

Rare blocky chloritic sections up to 5 cm.

114.50 119.75 Rock RQD 95%.

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SPc | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 114.50 | 116.00 | Aba. | 20021 | 114.50 | 116.00 | 1.50 | 1 | .01 | n/a | n/a | .01 |
| 116.00 | 117.50 | Aba, rare quartz veins. | 20022 | 116.00 | 117.50 | 1.50 | 1-2 | .02 | n/a | n/a | .02 |
| 117.50 | 119.00 | Aba. | 20023 | 117.50 | 119.00 | 1.50 | TR | .00 | n/a | n/a | .00 |
| 119.00 | 119.75 | Aba. | 20024 | 119.00 | 119.75 | .75 | TR-1 | .62 | n/a | n/a | .62 |
| 119.75 | 175.60 | TREMOLITE / CHLORITE MG BASALT Id. Fine to medium grained grey to grey green, very soft. Locally crystal of tremolite to 2 mm developed generally fine grained assemblage of chlorite and tremolite. From 144.0 to lower contact tremolite content decreases and core becomes finer grained and harder. Locally 5 to 10% phlogopite developed. 2 to 3% carbonate-quartz veins to 1 cm parallel to foliation. Well developed foliation at 55 to 76 degrees to the core axis increasing down hole to 143.0 where foliation ranges from 44 to 60 degrees to the core axis. At 169.0 to 175.6 foliation rolls over 27 to 40 decreasing down hole. Core generally breaks parallel to foliation. 119.76 120.00 Rock RQD 65%. 120.01 134.00 Rock RQD 0%. 132.50 134.00 Id carbonate-quartz veins. 134.01 143.00 Rock RQD 85%. 143.01 175.60 Rock RQD 100%. | 20025 | 132.50 | 134.00 | 1.50 | NIL | .75 | n/a | n/a | .75 |
| 175.60 | 176.60 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. Aba. As described 84.9 to 90.25. 175.6 to 181.3 well preserved bedding at 64 to 79 degrees to the core axis decreasing down hole. Well developed fracture cleavage at 29 to 56 decreasing down hole. Open left limb folds axial plane 49 to 54 degrees to the core axis. At 181.3 antiformal fold closure. 181.3 to 183.5 well preserved bedding at 74 to 78 degrees to the core axis. Well developed fracture cleavage at 66 degrees to the core axis. Moderately tight right limb folding axial plane 66 degrees to the core axis. At 183.5 synformal fold closure. 183.5 to 186.0 well preserved bedding at 55 to 56 degrees to the core axis. Well developed fracture cleavage at 70 to 81 degrees to the core axis. Tight left limb folding axial plane 72 to 81 degrees to the core axis. 3 to 5% axial planar quartz and pyrrhotite veins and pyrrhotite replacing magnetite parallel to bedding. 175.60 176.60 Aba. | 20026 | 175.60 | 176.60 | 1.00 | 3-5 | .01 | n/a | n/a | .01 |

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HOLE NO: MVS500
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| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| veins and replacement of magnetite by pyrrhotite parallel to bedding. | | | | | | | | | | | |
| 225.1 to 232.6 right limb folds, and antiform-synform pairs, often with considerable N folding at fold crest. | | | | | | | | | | | |
| Chert beds locally boudinaged, with up to 6 mm sinistral rotation. Boudin necks filled with grunerite and rare pyrrhotite. | | | | | | | | | | | |
| Fold axes at 33 to 46 degrees to the core axis. | | | | | | | | | | | |
| 190.10 | 232.60 | Rock RQD 100%. | | | | | | | | | |
| 190.10 | 191.10 | 4ba. | 20840 | 190.10 | 191.10 | 1.00 | 2-3 | .62 | n/a | n/a | .62 |
| 191.10 | 192.10 | 4ba. | 20841 | 191.10 | 192.10 | 1.00 | 1-2 | .55 | n/a | n/a | .55 |
| 192.10 | 193.10 | 4ba. | 20842 | 192.10 | 193.10 | 1.00 | TR-1 | .62 | n/a | n/a | .62 |
| 193.10 | 194.10 | 4ba. | 20843 | 193.10 | 194.10 | 1.00 | 5 | .82 | .96 | n/a | .89 |
| 194.10 | 195.10 | 4ba. | 20844 | 194.10 | 195.10 | 1.00 | 5 | .41 | .34 | n/a | .38 |
| 195.10 | 196.10 | 4ba. | 20845 | 195.10 | 196.10 | 1.00 | TR | .69 | n/a | n/a | .69 |
| 196.10 | 197.10 | 4ba. | 20846 | 196.10 | 197.10 | 1.00 | TR | .55 | n/a | n/a | .55 |
| 197.10 | 198.10 | 4ba. | 20847 | 197.10 | 198.10 | 1.00 | TR-1 | .40 | n/a | n/a | .40 |
| 198.10 | 199.10 | 4ba. | 20848 | 198.10 | 199.10 | 1.00 | TR-1 | .81 | n/a | n/a | .81 |
| 199.10 | 200.10 | 4ba. | 20849 | 199.10 | 200.10 | 1.00 | TR-1 | .21 | n/a | n/a | .21 |
| 200.10 | 201.10 | 4ba. | 20850 | 200.10 | 201.10 | 1.00 | 1-2 | .89 | n/a | n/a | .89 |
| 201.10 | 202.10 | 4ba. | 20851 | 201.10 | 202.10 | 1.00 | 1-2 | 12.82 | n/a | n/a | 12.82 |
| 202.10 | 203.10 | 4ba. | 20852 | 202.10 | 203.10 | 1.00 | 2-3 | .89 | n/a | n/a | .89 |
| 203.10 | 204.10 | 4ba(f). | 20853 | 203.10 | 204.10 | 1.00 | TR | .41 | n/a | n/a | .41 |
| 204.10 | 205.10 | 4ba. | 20854 | 204.10 | 205.10 | 1.00 | TR | .89 | n/a | n/a | .89 |
| 205.10 | 206.10 | 4ba. | 20855 | 205.10 | 206.10 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 206.10 | 207.10 | 4ba. | 20856 | 206.10 | 207.10 | 1.00 | 1 | .96 | n/a | n/a | .96 |
| 207.10 | 208.10 | Quartz vein. | 20857 | 207.10 | 208.10 | 1.00 | TR-1 | .27 | n/a | n/a | .27 |
| 208.10 | 209.10 | 4ba quartz vein. | 20858 | 208.10 | 209.10 | 1.00 | TR | .75 | n/a | n/a | .75 |
| 209.10 | 210.10 | 4ba. | 20859 | 209.10 | 210.10 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 210.10 | 211.10 | 4ba. | 20860 | 210.10 | 211.10 | 1.00 | TR | .55 | n/a | n/a | .55 |
| 211.10 | 212.10 | 4ba. | 20861 | 211.10 | 212.10 | 1.00 | 1-2 | .62 | n/a | n/a | .62 |
| 212.10 | 213.10 | 4ba. | 20862 | 212.10 | 213.10 | 1.00 | 1 | .55 | n/a | n/a | .55 |
| 213.10 | 214.10 | 4ba. | 20863 | 213.10 | 214.10 | 1.00 | 2-3 | .75 | n/a | n/a | .75 |
| 214.10 | 215.10 | 4ba. | 20864 | 214.10 | 215.10 | 1.00 | 3-5 | .62 | n/a | n/a | .62 |
| 215.10 | 216.10 | 4ba. | 20865 | 215.10 | 216.10 | 1.00 | 2-3 | .75 | n/a | n/a | .75 |
| 216.10 | 217.10 | 4ba. | 20866 | 216.10 | 217.10 | 1.00 | TR-1 | .01 | n/a | n/a | .01 |
| 217.10 | 218.10 | 4ba. | 20867 | 217.10 | 218.10 | 1.00 | TR-1 | .96 | n/a | n/a | .96 |
| 218.10 | 219.10 | 4ba. | 20868 | 218.10 | 219.10 | 1.00 | TR-1 | .90 | n/a | n/a | .90 |
| 219.10 | 220.10 | 4ba, quartz vein. | 20869 | 219.10 | 220.10 | 1.00 | 1 | .55 | n/a | n/a | .55 |
| 220.10 | 221.10 | 4ba. | 20870 | 220.10 | 221.10 | 1.00 | 1 | .89 | n/a | n/a | .89 |
| 221.10 | 222.10 | 4ba. | 20871 | 221.10 | 222.10 | 1.00 | TR-1 | .75 | n/a | n/a | .75 |
| 222.10 | 223.10 | 4ba. | 20872 | 222.10 | 223.10 | 1.00 | TR | .82 | n/a | n/a | .82 |
| 223.10 | 224.10 | 4ba. | 20873 | 223.10 | 224.10 | 1.00 | 1 | .01 | n/a | n/a | .01 |
| 224.10 | 225.10 | 4ba. | 20874 | 224.10 | 225.10 | 1.00 | TR | 2.95 | n/a | n/a | 2.95 |
| 225.10 | 226.10 | 4ba. | 20875 | 225.10 | 226.10 | 1.00 | 1-2 | .82 | n/a | n/a | .82 |
| 226.10 | 227.10 | 4ba. | 20876 | 226.10 | 227.10 | 1.00 | TR-1 | .96 | n/a | n/a | .96 |
| 227.10 | 228.10 | 4ba, brecciated chert fragments in pyrrhotite matrix. | 20877 | 227.10 | 228.10 | 1.00 | 1-3 | .01 | n/a | n/a | .01 |
| 228.10 | 229.10 | 4ba. | 20878 | 228.10 | 229.10 | 1.00 | 1-3 | .01 | n/a | n/a | .01 |

FLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUSS00
PAGE NO: 9

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | AV g/t | RERUN | REJECT | AVERAGE | |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|--|
| 229.10 | 230.10 | 4ba. | 20079 | 229.10 | 230.10 | 1.00 | 1-2 | .01 | n/a | n/a | .01 | |
| 230.10 | 231.10 | 4ba. | 20080 | 230.10 | 231.10 | 1.00 | 1-3 | .75 | n/a | n/a | .75 | |
| 231.10 | 232.10 | 4ba. | 20081 | 231.10 | 232.10 | 1.00 | 2-4 | .62 | n/a | n/a | .62 | |
| 232.10 | 232.60 | 4ba. | 20082 | 232.10 | 232.60 | .50 | 3-5 | .69 | n/a | n/a | .69 | |
| 232.60 | 254.60 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. | | | | | | | | | | |
| | | 4fb(a). | | | | | | | | | | |
| | | Similar to 69.6 to 73.25, but with no 'ea' beds. | | | | | | | | | | |
| | | 40 to 45% 'f' bed, moderately to locally heavily chloritized, generally garnet poor, with less than or equal to 10% pinhead garnets. | | | | | | | | | | |
| | | 'b' beds locally heavily gruneritized over 1 to 5 2.0 m. | | | | | | | | | | |
| | | Well bedded but variable at 13 to 50 degrees to the core axis, due to folding. | | | | | | | | | | |
| | | Intense folding throughout unit. | | | | | | | | | | |
| | | 242.6 Shallow right limb folds, axial plane 32 to 60 degrees to the core axis, with occasional well developed buckle folding. Pyrrhotite occurs generally as sulphide replacement of biotite and magnetite. Pyrrhotite occurs more rarely as veinlets, stringers, and occasional blebs up to 4 mm; veinlets often occur parallel to axial planes. Pyrrhotite mineralization is more characteristic of SULFIDE FACIES IRON FORMATION, than of pyrrhotite associated with gold mineralization. (ie: replacement texture, virtual complete lack of quartz, occasional chert fragments in a massive pyrrhotite matrix. | | | | | | | | | | |
| | | 232.60 239.00 Right limb folds, with occasional small left limb folds, axial plane 31 to 42 degrees to the core axis. | | | | | | | | | | |
| | | 232.60 234.60 Rock RQD 95 to 100%. | | | | | | | | | | |
| | | | 20083 | 232.60 | 234.10 | 1.50 | 3-5 | .75 | n/a | n/a | .75 | |
| | | | 20084 | 234.10 | 235.60 | 1.50 | 3-5 | .62 | n/a | n/a | .62 | |
| | | | 20085 | 235.60 | 237.10 | 1.50 | 15 | .96 | .09 | n/a | .93 | |
| | | | 20086 | 237.10 | 238.60 | 1.50 | 2-4 | .01 | n/a | n/a | .01 | |
| | | | 20087 | 238.60 | 240.10 | 1.50 | 10 | .01 | .01 | n/a | .01 | |
| | | | 20088 | 240.10 | 241.60 | 1.50 | 10 | .89 | 1.03 | n/a | .88 | |
| | | | 20089 | 241.60 | 243.10 | 1.50 | 5-8 | 1.03 | 1.03 | n/a | 1.03 | |
| | | | 20090 | 243.10 | 244.60 | 1.50 | 3-5 | .62 | n/a | n/a | .62 | |
| | | | 20091 | 244.60 | 246.10 | 1.50 | 2-4 | .01 | n/a | n/a | .01 | |
| | | | 20092 | 246.10 | 247.60 | 1.50 | 10 | .01 | .01 | n/a | .01 | |
| | | | 20093 | 247.60 | 249.10 | 1.50 | 5-10 | 1.30 | 1.23 | n/a | 1.27 | |
| | | | 20094 | 249.10 | 250.60 | 1.50 | 1-3 | .21 | n/a | n/a | .21 | |
| | | | 20095 | 250.60 | 252.10 | 1.50 | 1-3 | .69 | n/a | n/a | .69 | |
| | | | 20096 | 252.10 | 253.60 | 1.50 | 1-3 | .55 | n/a | n/a | .55 | |
| | | | 20097 | 253.60 | 254.60 | 1.00 | 2-4 | .75 | n/a | n/a | .75 | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 254.60 | 264.30 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. Similar to 84.9 to 90.25, but 'b' beds generally weakly to moderately gruneritized. 5% Grunerite occurs as 1 to 2 mm laminae at contact of 'b' beds with magnetite poor chert beds. Chert beds occasionally boudinaged, with grunerite infilling between boudins. 'f' beds rare, locally developed, less than or equal to 3 mm wide. Well bedded but variable at 33 to 53 degrees to the core axis. Considerable folding throughout unit; intense interference folding produces a convoluted fold pattern. Quartz-carbonate veins less than or equal to 3%, locally developed up to 3.3 cm, cutting bedding at approx 84 degrees to the core axis. Quartz-carbonate associated with trace to nil sulphides. Pyrrhotite occurs as veinlets and stringers up to 4 mm sub parallel to bedding, as replacement of biotite and more rarely magnetite, and as massive pyrrhotite bands carrying chert fragments up to 8 mm. NB: pyrrhotite mineralization is more typical of '4h' material than of pyrrhotite associated with gold mineralization. Rare blocky chloritic patches over 10 cm. | | | | | | | | | |
| 254.60 | 264.30 | Rock RQD 95%. | | | | | | | | | |
| 254.60 | 256.10 | 4ba, pyrrhotite veins. | 20898 | 254.60 | 256.10 | 1.50 | 3-5 | .01 | n/a | n/a | .01 |
| 256.10 | 257.60 | 4ba. | 20899 | 256.10 | 257.60 | 1.50 | 1-3 | .62 | n/a | n/a | .62 |
| 256.20 | 256.40 | Synformal fold closure, very broad, open, with axial plane 50 degrees to the core axis. | | | | | | | | | |
| 256.30 | 257.70 | Right limb fold, poorly developed, axial plane 84 degrees to the core axis. | | | | | | | | | |
| 257.60 | 259.10 | 4ba, massive pyrrhotite band. | 20900 | 257.60 | 259.10 | 1.50 | 5-10 | .01 | n/a | n/a | .01 |
| 257.70 | 257.80 | Antiformal fold closure, axial plane 40 degrees to the core axis. | | | | | | | | | |
| 257.80 | 264.30 | Right limb, shallow, axial plane 64 to 74 coarse. | | | | | | | | | |
| 259.10 | 250.60 | 4ba. | 20901 | 259.10 | 260.60 | 1.50 | 1 | .41 | n/a | n/a | .41 |
| 260.60 | 262.10 | 4ba, 10 cm quartz vein. | 20902 | 260.60 | 262.10 | 1.50 | TR | .55 | n/a | n/a | .55 |
| 262.10 | 263.60 | 4ba. | 20903 | 262.10 | 263.60 | 1.50 | 2-4 | .60 | n/a | n/a | .60 |
| 263.60 | 264.30 | 4bah. | 20904 | 263.60 | 264.30 | .70 | 5-10 | 1.44 | 1.44 | n/a | 1.44 |

277.85 TREMOLITE / CHLORITE MG BASALT
1d.
Similar to 119.75 to 175.6.

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH gPo Au g/t RERUN REJECT AVERAGE

Moderately to locally well foliated at 33 to 51 degrees to the core axis.

Moderately blocky, with breakage generally parallel to foliation. Broken surfaces chloritic. Gravelly over 10 to 20 cm.

264.30 277.85 Rock RQD 75 to 80%.

264.30 265.90 1d, character sample.

277.35 277.85 1d, character sample.

| | | | | | | | | |
|-------|--------|--------|------|---|-----|-----|-----|-----|
| 20905 | 264.30 | 265.90 | 1.60 | 0 | .01 | n/a | n/a | .01 |
| 20906 | 277.35 | 277.85 | .50 | 0 | .21 | n/a | n/a | .21 |

277.85 307.90 SULFIDE FACIES IRON FORMATION

4hb.

60 to 65% 1 to 2 cm graphitic chert beds, black, very hard, aphanitic, weakly conductive. Beds carry trace to 1% magnetite, generally disseminated but rarely as laminae. 25 to 30% 'b' beds, laminated to thinly bedded, in bands up to 2.0 cm, with 3 to 5% magnetite laminae.

3 to 5% 'f' beds, less than or equal to 1.0 cm, moderately chloritized, with 1 to 2% subhedral garnets up to 2 mm.

5 to 8% pyrrhotite overall, generally as sulphide replacement of biotite, but also as replacement of graphite or magnetite. Pyrrhotite occurs locally as veinlets up to 2 mm parallel to bedding plane contacts.

Rare massive pyrrhotite bands up to 2.0 cm disrupting bedding, supporting chert fragments.

Considerable folding throughout unit.

Right limb folds with rare antiformal fold closures from 277.85 to 296.4, with axial plane 51 to 56 degrees to the core axis, decreasing downhole to 2 to 6 degrees to the core axis from 292.0 to 292.7, and then increasing to 24 to 32 degrees to the core axis. Folds very shallow.

Bedding 9 to 31 degrees to the core axis in this section.

Very broad synformal fold closure at 296.4 to 296.8, axial plane 48 degrees to the core axis.

Left limb folds below 296.8, with axial plane 42 to 52 degrees to the core axis. Folds broad, open.

NB: folds all contain considerable N style folding on fold limbs and on fold crests.

Left limb fold axes increase below 302.5 to 69 to 89 degrees to the core axis.

Locally blocky, with fractures parallel to core axis, chlorite filled, up to 1 mm. Rare pyrite skins on broken surfaces.

277.85 299.00 Rock RQD 95 to 100%.

277.85 279.35 4hb.

279.35 280.85 4hb.

280.85 282.35 4hb.

282.35 283.85 4hb.

283.85 285.35 4hb.

| | | | | | | | | |
|-------|--------|--------|------|-----|------|------|-----|------|
| 20907 | 277.85 | 279.35 | 1.50 | 5-8 | 1.51 | 1.50 | n/a | 1.54 |
| 20908 | 279.35 | 280.85 | 1.50 | 5-7 | .27 | .34 | n/a | .31 |
| 20909 | 280.85 | 282.35 | 1.50 | 3-5 | .48 | n/a | n/a | .48 |
| 20910 | 282.35 | 283.85 | 1.50 | 5-8 | .69 | .21 | n/a | .45 |
| 20911 | 283.85 | 285.35 | 1.50 | 15 | .27 | .01 | n/a | .14 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: N05500
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FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPG Au g/t RERUN REJECT AVERAGE

CORE STORED ON PROPERTY.

CASING LEFT IN HOLE AND CAPPED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG,
MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUM | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | Typical fine grained to medium grained light grey quartz feldspar volcanic package. Contains 1 to 3% brown phlogopite, locally developed, but disseminated over 1 to 2 m sections. Rare quartz eyes 2 to 6 mm, often with 1 to 2 mm phlogopite cores. 1 to 3% feldspar crystals, locally developed, up to 1 mm, generally oriented parallel to foliation. 1 to 2% carbonate stringers less than or equal to 2 mm, parallel to foliation. Well foliated at 46 degrees to the core axis, increasing to 60 degrees to the core axis at 60.0, and then decreasing downhole to 51 to 56 degrees to the core axis below 60.0. Locally defined fracture cleavage at 80 to 90 degrees to foliation, quartz-carbonate filled with pink potassic haloes up to 2 mm. Up to 5 mm dextral offset. Locally blocky over 50 to 100 cm; gravelly sections rare. 54.25 64.80 Rock RQD 85 to 90%. | | | | | | | | | |
| | 59.00 | 60.50 A volc, fracture cleavage with potassic alteration. | 23063 | 59.00 | 60.50 | 1.50 | 0 | .02 | n/a | n/a | .02 |
| | 64.80 | 66.40 Rock RQD 65%. | | | | | | | | | |
| | 66.40 | 90.30 Similar to above but phlogopite content increasing downhole to 15 to 20%, as poorly defined bands up to 2.5 cm. Rare barren white quartz veins up to 5.0 cm observed. Foliated at 60 to 63 degrees to the core axis, locally 48 degrees to the core axis at 59 to 64 degrees to the core axis. | | | | | | | | | |
| | 66.41 | 90.30 Rock RQD 95%. | | | | | | | | | |
| | 86.00 | 87.50 A volc, 5.0 cm quartz vein. | 23064 | 86.00 | 87.50 | 1.50 | 0 | .09 | n/a | n/a | .09 |
| 90.30 | 93.90 | INTERMIXED POTASSIC BASALT AND MAFC VOLCANICS 3-B. 60 to 65% phlogopite bands 0.5 to 7.5 cm, interbanded with 30% fine grained medium green amphibole feldspar volcanic material. 3 to 5% carbonate veinlets 1 to 3 mm parallel to foliation. Well foliated and banded at 63 to 67 degrees to the core axis. Rare quartz-carbonate veins 1.0 to 3.5 cm, sub parallel to foliation, associated with trace pyrrhotite blebs up to 1 mm. | | | | | | | | | |
| | 90.30 | 93.90 Rock RQD 95 to 100%. | | | | | | | | | |
| | 90.30 | 91.80 3-B, quartz veins. | 23065 | 90.30 | 91.80 | 1.50 | TR | .27 | n/a | n/a | .27 |
| | 91.80 | 93.30 3-B, quartz-carbonate veins. | 23066 | 91.80 | 93.30 | 1.50 | TR | .01 | n/a | n/a | .01 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

3 to 5% laminated 'b' beds, generally magnetite poor, 0.5 to 0.8 cm.

1 to 2% carbonate stringers, less than or equal to 1 mm, parallel to bedding.

Moderately bedded at 40 to 65 degrees to the core axis.

5 to 10% quartz, generally as isolated veins parallel to bedding, but locally as silicified zone as in samples.

Quartz associated with trace to 1%, locally 1 to 3% pyrrhotite as specks and veinlets, and rare sulphide cement. Occasional folding below 213.0. Folds generally left limb, broad, open with axial plane 39 degrees to the core axis, increasing downhole to 70 degrees to the core axis at 222.4, and then decreasing to 54 to 60 degrees to the core axis downhole.

Folds display 'M' style folding at inflection points.

Isoclinal synformal fold closure at 217.5, axial plane 64 degrees to the core axis.

Antiformal fold closure at 219.4, axial plane 59 degrees to the core axis.

'b' beds well developed from 221.5 to 226.3, with well defined bedding.

209.70 229.15 Rock RQD 95 to 100%.

209.70 211.20 kea, occasional quartz veins.

211.20 212.70 kea(b), quartz veins.

212.70 214.20 kea, silicified.

214.20 215.70 kea, quartz veins.

215.70 217.20 kea, rare quartz veins.

217.20 218.70 kea, quartz rare.

218.70 220.20 kea.

220.20 221.70 kea.

221.70 223.20 keab.

223.20 224.70 keab.

224.70 226.20 keab.

226.20 227.70 kea, occasional quartz veins.

227.70 229.15 kea, 10 cm quartz vein.

| | | | | | | | | |
|-------|--------|--------|------|------|-------|------|-----|-------|
| 23089 | 209.70 | 211.20 | 1.50 | 1-3 | 1.23 | n/a | n/a | 1.23 |
| 23090 | 211.20 | 212.70 | 1.50 | TR-1 | 1.10 | n/a | n/a | 1.10 |
| 23091 | 212.70 | 214.20 | 1.50 | S-7 | 0.30 | 0.90 | n/a | 0.67 |
| 23092 | 214.20 | 215.70 | 1.50 | 1-2 | 4.66 | n/a | n/a | 4.66 |
| 23093 | 215.70 | 217.20 | 1.50 | TR-1 | 3.09 | n/a | n/a | 3.09 |
| 23094 | 217.20 | 218.70 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 23095 | 218.70 | 220.20 | 1.50 | TR | 1.99 | n/a | n/a | 1.99 |
| 23096 | 220.20 | 221.70 | 1.50 | TR-1 | 2.06 | n/a | n/a | 2.06 |
| 23097 | 221.70 | 223.20 | 1.50 | TR | 0.71 | n/a | n/a | 0.71 |
| 23098 | 223.20 | 224.70 | 1.50 | 0 | 1.71 | n/a | n/a | 1.71 |
| 23099 | 224.70 | 226.20 | 1.50 | 0 | 2.06 | n/a | n/a | 2.06 |
| 23100 | 226.20 | 227.70 | 1.50 | 3-5 | 10.97 | n/a | n/a | 10.97 |
| 23101 | 227.70 | 229.15 | 1.45 | 1-3 | 5.20 | n/a | n/a | 5.20 |

229.15 231.65 GARNET-BISTITE SCHIST / CHERT-GRUNERITE I.F.

4fa.

Well bedded unit, composed of:

70% 'f' beds, 0.3 to 10.0 cm, with 15 to 20% 1 to 2 mm pinhead garnets.

20 to 25% chert grunerite beds, 0.5 to 1.0 cm, often with grunerite disseminated through entire bed. Beds contain trace magnetite laminae, poorly developed.

Occasional grunerite laminae less than or equal to 1 mm at contact of 'f' and chert beds.

Less than or equal to 5% 'e' beds, locally developed, up to 9 mm.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5501
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| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | PERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | degrees to the core axis. | | | | | | | | | |
| | | Poorly developed synformal fold closure at 236.95, axial plane 72 degrees to the core axis. | | | | | | | | | |
| | | Left limb folds 237.05 to 244.85 axial plane 70 to 89 degrees to the core axis. | | | | | | | | | |
| | | Right limb folds 245.8 to 246.5, axial plane 70 to 82 degrees to the core axis. | | | | | | | | | |
| | | 233.70 247.20 Rock RQD 98%. | | | | | | | | | |
| | | 233.70 235.20 Afae. | 23106 | 233.70 | 235.20 | 1.50 | 0 | 1.17 | n/a | n/a | 1.17 |
| | | 235.20 236.70 Afae, quartz veins. | 23107 | 235.20 | 236.70 | 1.50 | TR | 1.44 | n/a | n/a | 1.44 |
| | | 236.70 238.20 Afae. | 23108 | 236.70 | 238.20 | 1.50 | 0 | 1.37 | n/a | n/a | 1.37 |
| | | 238.20 239.70 Afae. | 23109 | 238.20 | 239.70 | 1.50 | 0 | 1.30 | n/a | n/a | 1.30 |
| | | 239.70 241.20 leaf, 15 to 20% quartz veins. | 23110 | 239.70 | 241.20 | 1.50 | TR | 1.37 | n/a | n/a | 1.37 |
| | | 241.20 242.70 leaf. | 23111 | 241.20 | 242.70 | 1.50 | 0 | 1.50 | n/a | n/a | 1.50 |
| | | 242.70 244.20 Afae. | 23112 | 242.70 | 244.20 | 1.50 | 0 | 1.37 | n/a | n/a | 1.37 |
| | | 243.45 243.80 Fracture parallel to core axis, carbonate filled. | | | | | | | | | |
| | | 244.20 245.70 Afae. | 23113 | 244.20 | 245.70 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 245.70 246.20 Afae. | 23114 | 245.70 | 246.20 | .50 | 0 | .01 | n/a | n/a | .01 |
| | | 246.20 247.20 Afae. | 23115 | 246.20 | 247.20 | 1.00 | 0 | .27 | n/a | n/a | .27 |
| 247.20 | 258.40 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. Afae. Similar to 233.7 to 247.2, but 'ea' beds contain less than or equal to 5% subhedral garnets up to 2 mm. In sections of very low garnet content, 'a' beds are very poorly gruneritized. Up to 5% 'b' beds, less than or equal to 5 mm, moderately to heavily gruneritized, weakly magnetic. Well bedded at 59 to 70 degrees to the core axis. Rare blue quartz veins, less than or equal to 1.0 cm, barren. Rare right limb folds, moderately tight, with axial plane 65 to 71 degrees to the core axis. Fold plunge is 35 to 40 degrees grid north. 247.20 258.40 Rock RQD 75 to 80% (overall). 247.20 248.70 Afae. 248.70 250.20 FAULT ZONE core gravelly, very chloritic, muddy. 248.70 250.20 Afae. 250.20 251.70 Afae, quartz veins. 251.70 253.20 Afae, quartz rare. 251.87 251.96 Fracture, with carbonate infilling as euhedral to subhedral crystals. 251.96 258.40 Locally blocky, chloritic over 10 to 20 cm. 253.20 254.70 Afae. 254.70 256.20 Afae. | | | | | | | | | |
| | | 247.20 248.70 Afae. | 23116 | 247.20 | 248.70 | 1.50 | 0 | .89 | n/a | n/a | .89 |
| | | 248.70 250.20 FAULT ZONE core gravelly, very chloritic, muddy. | | | | | | | | | |
| | | 248.70 250.20 Afae. | 23117 | 248.70 | 250.20 | 1.50 | 0 | .27 | n/a | n/a | .27 |
| | | 250.20 251.70 Afae, quartz veins. | 23118 | 250.20 | 251.70 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 251.70 253.20 Afae, quartz rare. | 23119 | 251.70 | 253.20 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| | | 251.87 251.96 Fracture, with carbonate infilling as euhedral to subhedral crystals. | | | | | | | | | |
| | | 251.96 258.40 Locally blocky, chloritic over 10 to 20 cm. | | | | | | | | | |
| | | 253.20 254.70 Afae. | 23120 | 253.20 | 254.70 | 1.50 | 0 | .27 | n/a | n/a | .27 |
| | | 254.70 256.20 Afae. | 23121 | 254.70 | 256.20 | 1.50 | 0 | .27 | n/a | n/a | .27 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE | |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|--|
| 256.20 | 257.70 | 4fae, quartz veins. | 23122 | 256.20 | 257.70 | 1.50 | 0 | .69 | n/a | n/a | .69 | |
| 257.70 | 258.40 | 4fae. | 23123 | 257.70 | 258.40 | .70 | 0 | .62 | n/a | n/a | .62 | |
| 258.40 | 267.00 | GARNET-AMPHIBOLE-CHERT-GRUNERITE IRON FORMATION | | | | | | | | | | |
| | | 4ea. | | | | | | | | | | |
| | | Similar to 209.7 to 229.15. | | | | | | | | | | |
| | | 5 to 8% magnetite poor 'b' beds, poorly developed. | | | | | | | | | | |
| | | Well bedded at 62 to 79 degrees to the core axis. | | | | | | | | | | |
| | | 10% Quartz and quartz-carbonate veins, 0.5 to 11.0 cm, sub parallel to bedding, associated with 1 to 3% pyrrhotite blebs and poorly developed sulphide cement. | | | | | | | | | | |
| | | Rare right limb folds, moderately tight, with axial plane 72 degrees to the core axis, but plunging 15 to 20 degrees grid north. | | | | | | | | | | |
| 258.40 | 257.00 | Rock RQD 95 to 100%. | | | | | | | | | | |
| 258.40 | 259.90 | 4ea, quartz veins. | 23124 | 258.40 | 259.90 | 1.50 | 1-3 | 1.50 | n/a | n/a | 1.50 | |
| 259.90 | 261.40 | 4ea, quartz-carbonate veins. | 23125 | 259.90 | 261.40 | 1.50 | 2-4 | 2.01 | n/a | n/a | 2.01 | |
| 261.40 | 262.90 | 4ea. | 23126 | 261.40 | 262.90 | 1.50 | TR-1 | .82 | n/a | n/a | .82 | |
| 262.90 | 264.40 | 4ea, quartz veins. | 23127 | 262.90 | 264.40 | 1.50 | 2-4 | .75 | n/a | n/a | .75 | |
| 264.40 | 265.90 | 4ea. | 23128 | 264.40 | 265.90 | 1.50 | TR | .69 | n/a | n/a | .69 | |
| 265.90 | 267.00 | 4ea, quartz veins. | 23129 | 265.90 | 267.00 | 1.10 | 1-2 | 1.30 | n/a | n/a | 1.30 | |
| 267.00 | 275.60 | GARNET - BIOTITE SCHIST | | | | | | | | | | |
| | | 4f. | | | | | | | | | | |
| | | Similar to 208.3 to 209.7. | | | | | | | | | | |
| | | Upper 80 cm of unit interbanded with 10 to 15% heavily gruneritized 'e' beds. | | | | | | | | | | |
| | | 'e' beds associated with rare white quartz veins, carrying trace pyrrhotite flecks. | | | | | | | | | | |
| | | Well bedded at 61 to 63 degrees to the core axis. | | | | | | | | | | |
| | | Small, tight right limb fold at 268.55, with axial plane 63 degrees to the core axis. | | | | | | | | | | |
| | | Locally developed fracture set, carbonate chlorite filled at 70 degrees to bedding (acute angle normal to core axis) | | | | | | | | | | |
| | | Blocky over 10 to 20 cm, with local blue powder on broken faces, and rare pyrite skins. | | | | | | | | | | |
| 267.00 | 275.60 | Rock RQD 65%. | | | | | | | | | | |
| 267.00 | 269.50 | 4f, quartz vein, trace pyrite. | 23130 | 267.00 | 269.50 | 1.50 | 0 | .01 | n/a | n/a | .01 | |
| 270.00 | 271.50 | 4f, mafic wedges, character sample. | 23131 | 270.00 | 271.50 | 1.50 | 0 | .01 | n/a | n/a | .01 | |
| 270.20 | 275.60 | 4f. Similar to above but with up to 10% poorly developed mafic wedges less than or equal to 27.0 cm. Wedges medium green, aphanitic, amphibole rich, garnet poor. Also rare barren quartz veins, less than or equal to 8 mm. Foliated and banded at 43 to 67 degrees to the core axis. | | | | | | | | | | |
| 274.10 | 275.50 | 4f, character sample. | 23132 | 274.10 | 275.60 | 1.50 | 0 | .01 | n/a | n/a | .01 | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SP | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|----|--------|-------|--------|---------|
| 275.60 | 277.05 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. 4fa(a). Similar to 233.7 to 247.2. Grunerite laminae very poorly developed at contact of 'f' and 'a' beds. Well bedded at 50 to 52 degrees to the core axis. Rare white barren quartz veins, less than or equal to 2.0 cm, parallel to bedding. Blocky, with moderate to intense chlorite developed on broken surfaces. 275.60 277.05 Rock RQD 45 to 50%. | 23133 | 275.60 | 277.05 | 1.45 | 0 | .01 | n/a | n/a | .01 |
| 275.60 | 277.05 | 4fa(a), character sample. | | | | | | | | | |
| 277.05 | 281.65 | GARNET-BIOTITE SCHIST / CHERT-MAGNETITE I.F. 4fb. Upper contact poorly developed, blocky, gradational over 30 to 40 cm. 50 to 55% 'f' beds, 0.2 to 1.0 cm, locally to 4.0 cm, weakly to moderately chloritized, with up to 15% pinhead garnets. 40 to 45% 'b' beds, laminated to thinly bedded in bands up to 1.5 cm, with 10 to 15% magnetite laminae; weakly gruneritized. Up to 5% magnetite poor chert beds, less than or equal to 1.9 cm, locally boudinaged. Well bedded at 56 degrees to the core axis, increasing downhole to 69 degrees to the core axis at lower contact. 9.5 cm massive chert band at lower contact. Pyrrhotite carries chert fragments up to 1.0 cm occasionally oriented parallel to bedding. Broad, open left limb fold at 281.0, axial plane 33 degrees to the core axis. Plunge 10 to 15 degrees grid south. Left limb fold at 281.43, broad, open, with axial plane 68 degrees to the core axis. Plunge 45 to 50 degrees grid south. Blocky in upper 80 cm of unit. Chlorite filled fracture set visible at approx 90 degrees to bedding. 277.05 281.65 Rock RQD 85 to 90% (overall). | 23134 | 277.05 | 278.55 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 277.05 | 278.55 | 4fb, character sample. | | | | | | | | | |
| 278.55 | 280.05 | 4fb, character sample. | 23135 | 278.55 | 280.05 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 280.05 | 281.05 | 4fb, character sample. | 23136 | 280.05 | 281.05 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 281.05 | 291.65 | 4fb(h), massive pyrrhotite band supporting 0.1 to 1.0 cm chert fragments. | 23137 | 281.05 | 281.65 | .60 | 15 | 3.02 | 3.29 | n/a | 3.15 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SpO Au g/t RERUN REJECT AVERAGE

281.65 288.60 CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST

4ba(f).

60 to 85% moderately gruneritized 'b' beds, generally poorly laminated, with 20 to 25% magnetite, occasionally developed as a poor mottled texture in grunerite. Beds 1.0 to 4.0 cm.

20 to 25% poorly developed 'f' beds, 0.2 to 0.4 cm, with 3 to 5% pinhead garnets.

15 to 20% magnetite poor chert beds, less than or equal to 2.5 cm, locally boudinaged.

Grunerite laminae less than or equal to 1 mm at contact of 'b' and 'f' beds.

3 to 5% moderately to heavily gruneritized 'e' beds, less than or equal to 2.0 cm, carrying 1 to 2% 2 to 3 mm garnets; best developed in lower 2.0 m of unit.

Unit displays compositional banding into 'f' rich and 'f' poor bands up to 1.2 m wide as in samples.

Well bedded at 52 to 66 degrees to the core axis.

Rare quartz veins, less than or equal to 0.5 cm, associated with trace to 1% pyrrhotite flecks up to 1 mm.

281.65 288.60 Rock RQD 95 to 100%.

281.65 283.15 4baf, quartz rare.

283.15 284.65 4ba(f), quartz rare.

284.65 286.15 4ba(f).

286.15 287.65 4baf, 2 mm pyrrhotite veinlet.

287.65 288.60 4fba.

288.00 288.60 4fa similar to 229.15 to 231.65.

| | | | | | | | | |
|-------|--------|--------|------|------|------|-----|-----|-------|
| 23130 | 281.65 | 283.15 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 23139 | 283.15 | 284.65 | 1.50 | TR | 1.03 | n/a | n/a | 1.03 |
| 23140 | 284.65 | 286.15 | 1.50 | TR-1 | .41 | n/a | n/a | .41 |
| 23141 | 286.15 | 287.65 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| 23142 | 287.65 | 288.60 | .95 | TR-1 | 1.17 | n/a | n/a | 1.17, |

288.60 297.20 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.

50 to 60% 'b' beds, 0.3 to 2.0 cm, with 20 to 25% disseminated magnetite.

30 to 35% magnetite poor chert beds, 0.5 to 1.5 cm, generally boudinaged.

5 to 8% grunerite as 1 to 3 mm laminae at contact of 'b' and chert beds. Grunerite also occurs as infilling between boudins.

5 to 8% 'f' beds, locally developed, less than or equal to 1.0 cm, carrying 1 to 3% pinhead garnets.

Well bedded at 57 degrees to the core axis, increasing rapidly below 280.0 to 72 degrees to the core axis.

Rare white quartz veins, less than or equal to 3.5 cm, sub parallel to bedding, associated with trace pyrrhotite flecks and blebs.

Local carbonate filled fractures 0.5 to 2.6 cm, sub parallel to bedding.

Moderately defined fracture cleavage at 34 to 49 degrees

PLACER DONE INC.
DIAMOND DRILL RECORD

HOLE NO: M5501
PAGE NO: 12

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| | | to the core axis. Locally blocky, chloritic over 5 to 10 cm. 288.60 297.20 Rock RQD 90%. | | | | | | | | | |
| | | 288.60 290.10 4ba, rare quartz veins. | 23143 | 288.60 | 290.10 | 1.50 | TR | .69 | n/a | n/a | .69 |
| | | 291.60 293.10 4ba, character sample. | 23144 | 291.60 | 293.10 | 1.50 | TR | .55 | n/a | n/a | .55 |
| | | 294.50 296.00 4ba, character sample. | 23145 | 294.50 | 296.00 | 1.50 | TR | 1.10 | n/a | n/a | 1.10 |
| 297.20 | 309.70 | CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4ba(f). Similar to 281.65 to 288.6. Well bedded at 66 to 75 degrees to the core axis. 1 to 3%, locally 3 to 5% pyrrhotite as veinlets parallel to bedding, up to 5 mm, and as massive bands up to 2.0 cm. Massive bands support occasional chert fragments up to 2 mm. Right limb fold at 300.7, broad, open, with axial plane 75 degrees to the core axis, plunge 15 to 20 degrees grid north. Left limb folds from 305.3 to 308.5, axial plane 66 to 76 degrees to the core axis, but with plunge approx 75 degrees grid north. 297.20 309.70 Rock RQD 95 to 98%. | | | | | | | | | |
| | | 297.20 298.70 4baf. | 23146 | 297.20 | 298.70 | 1.50 | 3-5 | 1.82 | n/a | n/a | 1.92 |
| | | 298.70 300.20 4ba, 10 cm mafic wedge. | 23147 | 298.70 | 300.20 | 1.50 | TR | 4.94 | n/a | n/a | 4.94 |
| | | 300.20 301.70 4ba(f), character sample. | 23148 | 300.20 | 301.70 | 1.50 | TR | 3.63 | n/a | n/a | 3.63 |
| | | 301.70 303.20 4ba, character sample. | 23149 | 301.70 | 303.20 | 1.50 | 0 | 9.05 | n/a | n/a | 9.05 |
| | | 303.20 304.70 4ba(f), rare quartz veins. | 23150 | 303.20 | 304.70 | 1.50 | 2-4 | .01 | n/a | n/a | .01 |
| | | 304.70 306.20 4bfa, character sample. | 23151 | 304.70 | 306.20 | 1.50 | TR | .02 | n/a | n/a | .02 |
| | | 306.20 307.70 4ba(f), quartz veins. | 23152 | 306.20 | 307.70 | 1.50 | 2-4 | 0.91 | n/a | n/a | 0.91 |
| | | 307.70 309.20 4ba(f), pyrrhotite veinlets. | 23153 | 307.70 | 309.20 | 1.50 | 2-4 | .69 | n/a | n/a | .89 |
| | | 309.20 309.70 4baf, character sample. | 23154 | 309.20 | 309.70 | .50 | TR | .01 | n/a | n/a | .01 |
| 309.70 | 312.25 | SULFIDE FACIES IRON FORMATION 4bah. 50 to 60% moderately to heavily gruneritized 'ba' beds, 0.2 to 1.0 cm, with 15 to 20% magnetite, generally disseminated. 10 to 15% magnetite poor chert beds, less than or equal to 1.0 cm, rarely boudinaged. 15 to 20% pyrrhotite, locally developed as a massive band from 311.6 to 311.96, supporting occasional chert fragments and stringers. Pyrrhotite occurs as stringers, veinlets and occasional bands up to 1.0 cm elsewhere. Well bedded at 68 to 82 degrees to the core axis. 309.70 312.25 Rock RQD 95%. | | | | | | | | | |
| | | 309.70 311.20 4ba(h). | 23155 | 309.70 | 311.20 | 1.50 | 3-5 | .75 | n/a | n/a | .75 |
| | | 311.20 312.25 4bah. | 23156 | 311.20 | 312.25 | 1.05 | 35 | .02 | n/a | n/a | .02 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 312.25 | 319.00 | BASALT | | | | | | | | | |
| | | 2. Typical fine grained medium green grey amphibole feldspar volcanic package. Contains 5 to 10% phlogopite, disseminated. 1 to 3% carbonate stringers, less than or equal to 1 mm, locally developed, parallel to foliation. Well foliated at 50 to 69 degrees to the core axis. Nil sulphides. Blocky throughout, with intense chlorite developed on broken faces. Breakage generally parallel to foliation. Gravelly over 10 to 25 cm. 312.25 319.00 Rock RQD 45%. | | | | | | | | | |
| | | 312.25 313.75 2, character sample. | 23157 | 312.25 | 313.75 | 1.50 | 0 | .27 | n/a | n/d | .27 |

319.00 319.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 100 CREE CRESC. WINNIPEG, MANITOBA.

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Av | g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-------|------|-------|-------|--------|---------|
| | | around fractures. 176.96 179.00 Rock RQD 75%. | | | | | | | | | | |
| 179.00 | 183.45 | INTERMEDIATE TO MAFIC VOLCANICS B Volcanic. Fine grained, light green amphibole rich mafic volcanic. 3 to 5% phlogopite developed. 3 to 5% carbonate veins parallel to foliation. Well developed foliation at 42 to 51 degrees to the core axis. 179.01 183.45 Rock RQD 100%. | | | | | | | | | | |
| 183.45 | 185.15 | POTASSIC BASALT 3. Fine to medium grained, brown phlogopite rich mafic volcanic. Well developed foliation at 42 degrees to the core axis. 5 to 8% carbonate veins to 3 mm parallel to foliation. 183.46 185.15 Rock RQD 100%. | | | | | | | | | | |
| 185.15 | 189.10 | INTERMIXED MAFIC VOLCANICS AND POTASSIC BASALT B-3. Fine to medium grained, green to green brown mafic volcanic 15 to 20% phlogopite developed throughout unit locally developed into potassic basalt. 2 to 3% carbonate veins parallel to foliation. Well developed foliation at 42 to 51 degrees to the core axis. 185.16 189.10 Rock RQD 100%. | | | | | | | | | | |
| 189.10 | 190.30 | INTRAFORMATIONAL IRON FORMATION 2-4e. 35 to 40% dark green, fine grained amphibole rich remnants of e beds, locally overprinted by grunerite. 3 to 5% well developed ea beds with amorphous garnets to 1 cm. 5 to 8% magnetite fine grained and disseminated within e beds. 35 to 40% blue-ish white quartz, flooding this unit and disrupting bedding. 10 to 15% pyrrhotite as stringers in quartz and e beds and within and around garnets in ea beds. Poorly preserved bedding at 48 degrees to the core axis. 189.10 190.30 2-4e intensely silicified. 189.11 190.30 Rock RQD 100%. | 22176 | 189.10 | 190.30 | 1.20 | 10-15 | 0.02 | 15.63 | n/a | 11.83 | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|-----|--------|-------|--------|---------|
| 190.30 | 194.25 | POTASSIC BASALT 3-4# Grab-bag. 25 to 30% fine grained, brown phlogopite rich mafic volcanic, intercalated and or interbedded with chert beds e beds and minor f beds. 35 to 40% fine grained, green e beds with 5 to 8% subhedral garnets to 2 mm. E beds are generally overprinted by grunerite due to 2-3% disseminated magnetite 15 to 20% chert beds to 1 cm concentrated at top of unit. 5 to 8% f beds to 4 mm with 2 to 3% euhedral garnets to 2 mm concentrated toward bottom of unit. Well preserved bedding at 40 to 48 degrees to the core axis Right limb folding at 190.5 axial plane 48 degrees to the core axis. Left limb folding at 191.65 to 195.25 axial plane 35 to 41 degrees to the core axis. | | | | | | | | | |
| 190.30 | 194.25 | Rock RQD 100%. | | | | | | | | | |
| 190.30 | 191.30 | 3-4e. | 22177 | 190.30 | 191.30 | 1.00 | TR | 1.03 | n/a | n/a | 1.03 |
| 191.30 | 192.30 | 3-4e. | 22178 | 191.30 | 192.30 | 1.00 | TR | .86 | n/a | n/a | .96 |
| 192.30 | 193.30 | 3-4e. | 22179 | 192.30 | 193.30 | 1.00 | TR | 1.10 | n/a | n/a | 1.10 |
| 193.30 | 194.25 | 3-4e. | 22180 | 193.30 | 194.25 | .95 | TR | .01 | n/a | n/a | .01 |
| 194.25 | 196.65 | GARNET-BIOTITE SCHIST / GARNET-AMPHIBOLE IRON FORMATION 4fe. 50 to 55% f beds to 3 cm generally to 2 cm with 10 to 15% euhedral garrets to 2 mm. 20 to 25% dark green, amphibole rich e beds 1 to 2 cm with 5 to 8% euhedral garnets to 2 mm. Trace magnetite associated with e beds. 5 to 10% quartz veins generally associated with e beds, disrupting beds. Associated with quartz veins are pyrrhotite stringers generally concentrated toward bottom of unit. 5 to 10% phlogopite rich mafic volcanic interbedded throughout unit. Left limb folding at 194.4 axial plane 49 degrees to the core axis. Right limb folding from 195.55 to 196.65 axial plane 37 degrees to the core axis. Moderately to well preserved bedding at 36 to 47 decreasing down hole. | | | | | | | | | |
| 194.25 | 195.25 | 4fe. | 22181 | 194.25 | 195.25 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 194.26 | 196.65 | Rock RQD 100%. | | | | | | | | | |
| 195.25 | 196.65 | 4fe. | 22182 | 195.25 | 196.65 | 1.40 | 3-5 | 4.25 | 4.18 | n/a | 4.22 |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

30 to 35% laminated b beds to 1 cm consisting of 30 to 35% magnetite laminae lightly overprinted by grunerite.

20 to 25% f beds, to 8 mm, moderately chloritized, with 5 to 10% euhedral garnets to 2 mm.

20 to 25% green, amphibole rich e beds to 4 mm with trace to 1% subhedral garnets. Locally alteration grunerite is intense enough to form poor ea beds.

5 to 10% grunerite as alteration of magnetite.

10 to 15% quartz pyrrhotite veins throughout unit up to 5 cm. Pyrrhotite as stringers in quartz and veins and magnetite replacement b beds.

Moderately to well preserved bedding at 52 to 70 degrees to the core axis.

Moderately to well developed fracture cleavage at 47 to 65 degrees to the core axis.

Left limb folding 205.7 to 219.85 axial plane 47 to 60 degrees to the core axis.

205.70 206.70 4bea.

22192 205.70 206.70 1.00 TR 1.44 n/a n/a 1.44

205.71 210.80 Rock RQD 75%.

206.70 207.70 4bfe pyrrhotite veins.

22193 206.70 207.70 1.00 I 2.06 n/a n/a 2.06

207.70 208.70 4bfe quartz veins.

22194 207.70 208.70 1.00 TR 1.17 n/a n/a 1.17

208.70 209.70 4bfe.

22195 208.70 209.70 1.00 TR .82 n/a n/a .82

209.70 210.70 4bea quartz veins.

22196 209.70 210.70 1.00 TR 1.30 n/a n/a 1.30

210.70 212.00 4bfe 50% core recovery.

22197 210.70 212.00 1.30 TR 1.03 n/a n/a 1.03

210.81 211.85 Rock RQD 0%.

211.86 219.95 Rock RQD 85%.

212.00 213.00 4bfe quartz veins.

22198 212.00 213.00 1.00 TR-1 1.37 n/a n/a 1.37

213.00 214.00 4bfe quartz pyrrhotite.

22199 213.00 214.00 1.00 1-2 8.50 n/a n/a 8.50

214.00 215.00 4bfe quartz pyrrhotite.

22200 214.00 215.00 1.00 3-5 5.90 5.90 n/a 5.90

215.00 215.00 4bfe quartz pyrrhotite.

22201 215.00 216.00 1.00 TR 1.92 n/a n/a 1.92

216.00 217.00 4bfe quartz pyrrhotite.

22202 216.00 217.00 1.00 3-5 1.85 n/a n/a 1.85

217.00 218.00 4bfe quartz pyrrhotite.

22203 217.00 218.00 1.00 TR-1 1.99 n/a n/a 1.99

218.00 219.00 4bfe quartz pyrrhotite.

22204 218.00 219.00 1.00 5-8 4.73 5.35 n/a 5.04

219.00 219.95 4bfe quartz pyrrhotite.

22205 219.00 219.95 .95 3-5 6.31 n/a n/a 6.31

219.95 222.65 GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / CHERT-MAGNETITE

I.F.

4eab.

45 to 50% poorly formed ea beds, containing 15 to 20% subhedral garnets to 2 mm and remnants of magnetite all in a grunerite matrix.

10 to 15% magnetite throughout.

5 to 10% green, amphibole rich remnants of grunerite beds.

20 to 25% quartz floccing with pyrrhotite as stringers in quartz and surrounding in ea beds.

1 to 2% f beds.

Poorly to moderately preserved bedding at 65 to 63 degrees to the core axis.

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | Sp | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | Right limb folding axial plane 53 degrees to the core axis. | | | | | | | | | |
| 219.95 | 220.95 | 4eab intensely silicified. | 22206 | 219.95 | 220.95 | 1.00 | 3-5 | 3.38 | 3.70 | n/a | 3.53 |
| 219.96 | 222.65 | Rock RGD 100%. | | | | | | | | | |
| 220.95 | 221.95 | 4eab intensely silicified. | 22207 | 220.95 | 221.95 | 1.00 | 5-10 | 5.14 | 5.62 | n/a | 5.30 |
| 221.95 | 222.65 | 4eab intensely silicified. | 22208 | 221.95 | 222.65 | .70 | 5-10 | 7.61 | 7.60 | n/a | 7.54 |
| 222.65 | 231.80 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE-AMPHIBOLE I.F. 4bfe. Similar to 205.7 to 219.65. Quartz pyrrhotite veining is less 3 to 5% and locally f content may be as high as 40%. 222.65 to 224.0 right limb folding axial plane 44 to 50 degrees to the core axis, fracture cleavage at 48 to 30 degrees to the core axis and bedding at 37 degrees to the core axis. 224.0 to 228.75 left limb folding axial plane 48 to 57 degrees to the core axis, fracture cleavage at 52 to 57 degrees to the core axis and bedding at 58 degrees to the core axis. 228.75 to 231.8 right limb folding axial plane 64 to 82 Decreasing down hole, fracture cleavage at 69 to 70 degrees to the core axis and bedding at 40 to 71 degrees to the core axis decreasing down hole. 222.65 224.00 4bfe quartz pyrrhotite. 222.66 231.80 Rock RGD 35%. | | | | | | | | | |
| 224.00 | 225.50 | 4bfe quartz pyrrhotite. | 22210 | 224.00 | 225.50 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 225.50 | 227.00 | 4bfe quartz pyrrhotite. | 22211 | 225.50 | 227.00 | 1.50 | TR | 1.10 | n/a | n/a | 1.10 |
| 227.00 | 228.50 | 4bfe. | 22212 | 227.00 | 228.50 | 1.50 | TR | .68 | n/a | n/a | .68 |
| 228.50 | 230.00 | 4lfea. | 22213 | 228.50 | 230.00 | 1.50 | TR | .41 | n/a | n/a | .41 |
| 230.00 | 231.80 | 4bfe. | 22214 | 230.00 | 231.80 | 1.80 | TR | .62 | n/a | n/a | .62 |
| 231.80 | 234.05 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4eaf. 25 to 30% heavily gruneritized ea beds. 5 to 10% subhedral to amorphous garnets to 3 mm in grunerite matrix. 10 to 15% mottled magnetite in heavily gruneritized beds. 15 to 20% f beds with euhedral garnets to 3 mm in biotite matrix. 5 to 10% green, amphibole rich remnants of e beds. 20 to 25% white quartz flooding unit disrupting bedding. Poorly to moderately preserved bedding at 33 to 48 degrees to the core axis decreasing down hole. Left limb folding axial plane 38 to 41 degrees to the core axis. 231.80 232.80 4eaf intensely silicified. 231.91 234.05 Rock RQF 100%. | | | | | | | | | |
| 231.80 | 232.80 | 4eaf intensely silicified. | 22215 | 231.80 | 232.80 | 1.00 | TR | .75 | n/a | n/a | .75 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M05502
PAGE NO: 1A

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPg Au g/t RERUN REJECT AVERAGE

309.00 308.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDVEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF CGRD: 6447.6 7569.0 SURVEYED: YES

PLACER DOME INC.

LOCATION: 9+00N 0+39W GRID: EAST

DIAMOND DRILL RECORD

HOLE NO: MUSS83

POST LOCATION:

PROPERTY:

SECTION:

AZIMUTH: 47.5

LENGTH: 124.5

ELEVATION: 5306.2

LOGGED BY: PAUL GERTZBEIN

DIP: -45.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MARCH 20, 1980 - APRIL 2, 1980

STARTED: MARCH 29, 1980

COMPLETED: APRIL 1, 1980

CLAIM NO:

PURPOSE: FOLLOW UP INTERSECTION MUS 517 AT 5250 EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|-------|---------|-------|--------|---------|-------|
| 30.00 | | -38.0 | 90.00 | | -31.0 |
| 60.00 | | -34.0 | 120.00 | | -28.0 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | %Po | Au g/t | RERUN | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|
|------|----|-------------|--------|------|----|--------|-----|--------|-------|--------|---------|

.00 20.75 OVERBURDEN

20.75 25.65 GARNET-AMPHIBOLE I.F. / CHERT-MAGNETITE-GRUNERITE I.F.

4eba.

30 to 35% e beds, green, amphibole rich with 5 to 10% euhedral garnets to 3 mm.

25 to 30% b beds with 10% magnetite as laminae and thin beds in chert.

15 to 20% poorly developed ea beds, heavily gruneritized with 3 to 5% subhedral garnets to 3 mm.

5 to 10% f beds to 1 cm with 5% euhedral garnets to 2 mm.

Well preserved bedding at 41 to 51 degrees to the core axis

Well developed fracture cleavage at 29 to 35 degrees to the core axis.

Tight left limb folding axial plane 31 to 45 degrees to the core axis.

Folds have a plunge of 5 to 10 degrees to the north locally to 15 degrees.

Locally gravelly sections in core to 20 cm and fractures 20 to 30 degrees to the core axis.

20.75 22.00 4eba.

22253 20.75 22.00 1.25 2-3 2.61 n/a n/a 2.61

20.76 25.65 Rock RQD 50%.

22.00 23.00 4eba.

22254 22.00 23.00 1.00 TR .82 n/a n/a .82

23.00 24.00 4eba.

22255 23.00 24.00 1.00 TR 3.29 n/a n/a 3.29

24.00 25.65 4eba.

22256 24.00 25.65 1.65 TR .01 n/a n/a .01

25.65 32.85 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE I.F.

60 to 65% green, amphibole rich e beds with 10 to 15% euhedral garnets to 3 mm and 10 to 15% magnetite as

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Au g/t RERUN REJECT AVERAGE

laminae and disseminated in beds.
10 to 15% b beds with 2 to 3% magnetite as laminae.
5 to 10% f beds to 1.5 cm with 3 to 5% euhedral garnets to 2 mm.
5 to 8% grunerite overprinting e beds as alteration of disseminated magnetite.
Well preserved bedding at 51 to 66 degrees to the core axis
Well developed fracture cleavage at 30 to 55 degrees to the core axis.
Left limb folding axial plane 40 to 45 degrees to the core axis.
31.4 to 32.85 M style folding crest of major left limb fold
Folds plunge at 5 to 10 degrees to the north.
Locally around carbonate filled fracture, 20 to 30 degrees to the core axis, euhedral pyrite crystals to 2 mm.

| | | | | | | | | | | | |
|-------|-------|---------------|-------|-------|-------|------|----|------|-----|-----|------|
| 25.65 | 26.65 | 4eb. | 22257 | 25.65 | 26.65 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 25.66 | 32.85 | Kock RQD 75%. | | | | | | | | | |
| 26.65 | 27.65 | 4eb. | 22258 | 26.65 | 27.65 | 1.00 | TR | .02 | n/a | n/a | .02 |
| 27.65 | 28.65 | 4eb. | 22259 | 27.65 | 28.65 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 28.65 | 29.65 | 4eb. | 22260 | 28.65 | 29.65 | 1.00 | TR | .01 | n/a | n/a | .01 |
| 29.65 | 30.65 | 4eb. | 22261 | 29.65 | 30.65 | 1.00 | TR | .21 | n/a | n/a | .21 |
| 30.65 | 31.65 | 4eb. | 22262 | 30.65 | 31.65 | 1.00 | TR | 1.78 | n/a | n/a | 1.78 |
| 31.65 | 32.95 | 4eb. | 22263 | 31.65 | 32.85 | 1.20 | TR | .09 | n/a | n/a | .09 |

32.85 37.80 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST

4bf.
25 to 30% f beds, fine grained, green, intensely chloritized with 3 to 5% euhedral garnets to 1 mm.
F bed concentration decrease to 5 to 9% at bottom of unit.
55 to 60% b beds well laminae with 40 to 45% magnetite.
5 to 10% magnetite poor chert beds.
Rare quartz and pyrrhotite veins parallel to fracture cleavage.
Well preserved bedding at 54 to 59 degrees to the core axis
Well developed fracture cleavage at 53 to 67 degrees to the core axis.
Left limb folding axial plane 45 to 50 degrees to the core axis.
Folds plunge at 5 to 10 degrees to the north.

| | | | | | | | | | | | |
|-------|-------|------------------------|-------|-------|-------|------|------|------|-----|-----|------|
| 32.85 | 34.35 | 4bf. | 22264 | 32.85 | 34.35 | 1.50 | TR | .27 | n/a | n/a | .27 |
| 32.86 | 37.80 | Rock RQD 100%. | | | | | | | | | |
| 34.35 | 35.85 | 4bf quartz pyrrhotite. | 22265 | 34.35 | 35.85 | 1.50 | TR-1 | 1.03 | n/a | n/a | 1.03 |
| 35.85 | 36.65 | 4bf quartz pyrrhotite. | 22266 | 35.85 | 36.85 | 1.00 | TR-1 | 1.03 | n/a | n/a | 1.03 |
| 36.85 | 37.80 | 4bf. | 22267 | 36.85 | 37.80 | .95 | TR | .01 | n/a | n/a | .01 |

39.05 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4ba.

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SPe | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|-----|--------|-------|--------|---------|
| | | 35 to 40% magnetite, laminae to beds in bands to 2 cm. 20 to 25% grunerite alteration of magnetite, generally on margins and lightly overprinting beds. 30 to 35% chert beds generally boudinaged. 5 Poorly to moderately preserved bedding at 73 degrees to the core axis. Well developed fracture cleavage at 53 degrees to the core axis. | | | | | | | | | |
| | | 37.80 39.05 4ba. | 22260 | 37.00 | 39.05 | 1.25 | TR | .01 | n/a | n/a | .01 |
| | | 37.81 39.05 Rock RQD 100%. | | | | | | | | | |
| 39.05 | 41.60 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4ba. 20 to 25% f beds to 5 mm with 5 to 10% euhedral garnets to 2 mm. 20 to 25% magnetite as thin beds. 10 to 15% grunerite alteration of magnetite. 30 to 35% chert beds generally boudinaged. 1 to 2% pyrrhotite as veinlets and in strain shadows of boudinaged chert beds. Moderately to well preserved bedding at 54 degrees to the core axis. Rare left limb folding axial plane 46 degrees to the core axis. | | | | | | | | | |
| | | 39.05 40.05 4ba. | 22269 | 39.05 | 40.05 | 1.00 | TR | .21 | n/a | n/a | .21 |
| | | 39.06 41.60 Rock RQD 100%. | | | | | | | | | |
| | | 40.05 41.05 4ba. | 22270 | 40.05 | 41.05 | 1.00 | 2-3 | .27 | n/a | n/a | .27 |
| | | 41.05 41.60 4ba. | 22271 | 41.05 | 41.60 | .55 | TR | .01 | n/a | n/a | .01 |
| 41.60 | 47.25 | CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F. 4ba. As described 37.8 to 39.05. 1 to 2% quartz and pyrrhotite veining parallel to fracture cleavage. Poorly preserved bedding at 54 to 60 degrees to the core axis. Well developed fracture cleavage at 35 to 65 degrees to the core axis. Left limb folding axial plane 55 degrees to the core axis. Folds plunge 5 to 10 degrees to the north. | | | | | | | | | |
| | | 41.61 47.25 Rock RQD 100%. | | | | | | | | | |
| | | 41.65 43.15 4ba quartz veins. | 22272 | 41.65 | 43.15 | 1.50 | TR | 1.23 | n/a | n/a | 1.23 |
| | | 43.15 44.65 4ba pyrrhotite veins. | 22273 | 43.15 | 44.65 | 1.50 | 2-3 | 1.37 | n/a | n/a | 1.37 |
| | | 44.65 46.15 4ba. | 22274 | 44.65 | 46.15 | 1.50 | TR | .01 | n/a | n/a | .01 |
| | | 46.15 47.25 4ba. | 22275 | 46.15 | 47.25 | 1.10 | TR | 1.05 | n/a | n/a | 1.05 |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPG | Au g/t | RERUN | REJECT | AVERAGE |
|-------|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| 47.25 | 54.75 | CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST 4bf. As described 32.85 to 37.0. F beds decrease in concentration toward lower contact. Well preserved bedding at 57 to 75 degrees to the core axis Intensely developed fracture cleavage at 52 to 67 degrees to the core axis decreasing down hole. Left limb and right limb fold closers axial plane 57 to 62 degrees to the core axis. May be closer of major fold left limb folds predominate. Minor pyrrhotite veinlets. | | | | | | | | | |
| 47.25 | 48.75 | 4bf. | 22276 | 47.25 | 48.75 | 1.50 | TR | 2.54 | n/a | n/a | 2.54 |
| 47.26 | 54.75 | Rock RQD 100%. | | | | | | | | | |
| 48.75 | 50.25 | 4bf. | 22277 | 48.75 | 50.25 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 50.25 | 51.75 | 4bf. | 22278 | 50.25 | 51.75 | 1.50 | TR | 1.17 | n/a | n/a | 1.17 |
| 51.75 | 53.25 | 4bf quartz pyrrhotite. | 22279 | 51.75 | 53.25 | 1.50 | TR-1 | 2.54 | n/a | n/a | 2.54 |
| 53.25 | 54.75 | 4bf quartz pyrrhotite. | 22280 | 53.25 | 54.75 | 1.50 | TR-1 | .82 | n/a | n/a | .82 |

54.75 85.20 CHERT-MAGNETITE I.F. / GARNET-BIOTITE SCHIST
4b(f).
35 to 40% magnetite well laminae to bedded in bands to 2 cm
20 to 25% magnetite poor chert beds with 2 to 3% magnetite
as laminae. Generally boudinaged.
5 to 10% f beds to 5 mm with 3 to 5% euhedral to subhedral
garnets to 2 mm. f beds are poorly to moderately
chloritized.
2 to 3% grunerite alteration of magnetite generally on
margins of beds. Locally more intense in areas of intense
qtz veining.
15 to 20% blue quartz veining. Where veining is intense
vein boundaries become indistinct. Quartz veining
increases downward in hole. See sample description for
distribution of quartz veins.
2 to 3% carbonate associated with quartz veins.
54.75 to 58.0 left limb folding axial plane 37 to 45
degrees to the core axis. Well developed fracture cleavage
at 40 to 47 degrees to the core axis. Well preserved
bedding at 55 to 76 degrees to the core axis.
58.0 to 63.0 right limb folding axial plane 40 to 54
degrees to the core axis. Well developed fracture cleavage
at 37 to 62 decreasing down hole moderately to well
preserved bedding at 29 to 46 increasing down hole.
63.0 to 67.0 m style folding axial plane 51 to 71
increasing down hole. Well developed fracture cleavage at
52 to 64 increasing down hole. Moderately to well
preserved bedding at 46 to 48 degrees to the core axis.
67.0 to 85.2 right limb folding axial plane 42 to 53
degrees to the core axis. Well developed fracture cleavage

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | REGRH | REJECT | AVERAGE |
|--|-------|--|--------|-------|-------|--------|------|--------|-------|--------|---------|
| at 44 to 61 degrees to the core axis. Well preserved bedding at 30 to 67 decreasing down hole. | | | | | | | | | | | |
| 54.75 | 56.25 | 4b(f). | 22281 | 54.75 | 56.25 | 1.50 | TR | .69 | n/a | n/a | .69 |
| 54.76 | 71.00 | Rock RQC 100%. | | | | | | | | | |
| 56.25 | 57.75 | 4b(f). | 22282 | 56.25 | 57.75 | 1.50 | TR | .69 | n/a | n/a | .69 |
| 57.75 | 59.25 | 4b(f) 1% quartz veins. | 22283 | 57.75 | 59.25 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 59.25 | 60.75 | 4b(f) 1% quartz veins. | 22284 | 59.25 | 60.75 | 1.50 | TR | 1.10 | n/a | n/a | 1.10 |
| 60.75 | 62.25 | 4b(f) 10% quartz veins. | 22285 | 60.75 | 62.25 | 1.50 | TR-1 | .27 | n/a | n/a | .27 |
| 62.25 | 63.75 | 4b(f) 5% quartz veins 3% arsenopyrite. | 22286 | 62.25 | 63.75 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 63.75 | 65.25 | 4b(f) 2% quartz veins. | 22287 | 63.75 | 65.25 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 65.25 | 66.75 | 4b(f) 10% quartz veins. | 22288 | 65.25 | 66.75 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 66.75 | 68.25 | 4b(f) 2% quartz veins. | 22289 | 66.75 | 68.25 | 1.50 | TR | 1.03 | n/a | n/a | 1.03 |
| 68.25 | 69.75 | 4b(f) 5% quartz veins. | 22290 | 68.25 | 69.75 | 1.50 | TR | .89 | n/a | n/a | .89 |
| 69.75 | 71.25 | 4b(f) 15% quartz veins. | 22291 | 69.75 | 71.25 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 71.01 | 85.20 | Rock RQD 100%. | | | | | | | | | |
| 71.25 | 72.75 | 4b(f) 2% quartz veins. | 22292 | 71.25 | 72.75 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 72.75 | 74.25 | 4b(f) 1% quartz veins. | 22293 | 72.75 | 74.25 | 1.50 | TR | .62 | n/a | n/a | .62 |
| 74.25 | 75.75 | 4b(f) 1% quartz veins. | 22294 | 74.25 | 75.75 | 1.50 | TR | .75 | n/a | n/a | .75 |
| 75.75 | 77.25 | 4b(f). | 22295 | 75.75 | 77.25 | 1.50 | TR | .02 | n/a | n/a | .02 |
| 77.25 | 78.75 | 4b(f) 1% quartz veins. | 22296 | 77.25 | 78.75 | 1.50 | TR | 1.44 | n/a | n/a | 1.44 |
| 78.75 | 80.25 | 4b(f) 15% quartz veins. | 22297 | 78.75 | 80.25 | 1.50 | TR-1 | .69 | n/a | n/a | .69 |
| 80.25 | 81.75 | 4b(f) 65% quartz veins. | 22298 | 80.25 | 81.75 | 1.50 | 3-5 | 1.17 | n/a | n/a | 1.17 |
| 81.75 | 83.25 | 4b(f) 25% quartz veins. | 22299 | 81.75 | 83.25 | 1.50 | 2-3 | .02 | n/a | n/a | .02 |
| 83.25 | 84.75 | 4b(f) 10% quartz veins. | 22300 | 83.25 | 84.75 | 1.50 | 1-2 | .40 | n/a | n/a | .40 |
| 84.75 | 85.20 | 4b(f) 5% quartz veins. | 22301 | 84.75 | 85.20 | .45 | TR | .01 | n/a | n/a | .01 |

85.20 105.20 CHERT-MAGNETITE I.F. / GARNET-AMPHIBOLE-CHERT-GRUNERITE

I.F.

4b(ea).

30 to 35% magnetite poorly preserved beds to 1 cm and laminae.

25 to 30% magnetite poor chert beds with 3 to 5% magnetite as laminae, generally boudinaged.

5 to 10% f beds to 4 mm with 2 to 3% euhedral garnets to 2 mm.

10 to 15% ea beds, poorly formed and heavily grunerite with 3 to 5% subhedral to amorphous garnets to locally more concentrated.

5 to 10% quartz pyrrhotite veining locally disrupting bedding.

2 to 3% carbonate veins associated with quartz pyrrhotite veining.

Poorly to moderately preserved bedding at 33 to 52 degrees to the core axis decreasing down hole.

Moderately to well developed fracture cleavage at 30 to 52 degrees to the core axis, generally 40 to 50 degrees to the core axis.

Left limb folding axial plane 35 to 52 degrees to the core

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MUS503
PAGE NO: 6

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|---------------------------|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | axis. | | | | | | | | | |
| 85.20 | 86.70 | 4bea 5% quartz veins. | 22302 | 85.20 | 86.70 | 1.50 | 3-5 | .02 | n/a | n/a | .02 |
| 85.21 | 105.20 | Rock RQD 100%. | | | | | | | | | |
| 86.70 | 88.20 | 4b(ea) 10% quartz veins. | 22303 | 86.70 | 88.20 | 1.50 | 3-5 | 4.53 | n/a | n/a | 4.53 |
| 88.20 | 89.70 | 4bf 15% quartz veins. | 22304 | 88.20 | 89.70 | 1.50 | TR-1 | 1.05 | n/a | n/a | 1.05 |
| 89.70 | 91.20 | 4bf(ea) 10% quartz veins. | 22305 | 89.70 | 91.20 | 1.50 | 1-2 | 1.17 | n/a | n/a | 1.17 |
| 91.20 | 92.70 | 4b(ea) 5% quartz veins. | 22306 | 91.20 | 92.70 | 1.50 | 3-5 | 2.26 | n/a | n/a | 2.26 |
| 92.70 | 94.20 | 4bf(ea) 2% quartz veins. | 22307 | 92.70 | 94.20 | 1.50 | 2-3 | 1.17 | n/a | n/a | 1.17 |
| 94.20 | 95.70 | 4bea 10% quartz veins. | 22308 | 94.20 | 95.70 | 1.50 | 5-10 | 3.01 | 4.10 | n/a | 4.05 |
| 95.70 | 97.20 | 4bea 3% quartz veins. | 22309 | 95.70 | 97.20 | 1.50 | 3-5 | 7.41 | n/a | n/a | 7.41 |
| 97.20 | 98.70 | 4b(ea) 20% quartz veins. | 22310 | 97.20 | 98.70 | 1.50 | 3-5 | 3.22 | n/a | n/a | 3.22 |
| 98.70 | 100.20 | 4b 35% quartz veins. | 22311 | 98.70 | 100.20 | 1.50 | 3-5 | 6.51 | n/a | n/a | 6.51 |
| 100.20 | 101.70 | 4b(ea) 10% quartz veins. | 22312 | 100.20 | 101.70 | 1.50 | 1-2 | .01 | n/a | n/a | .01 |
| 101.70 | 103.20 | 4b(ea) 5% quartz veins. | 22313 | 101.70 | 103.20 | 1.50 | TR | 2.95 | n/a | n/a | 2.95 |
| 103.20 | 104.70 | 4b(ea). | 22314 | 103.20 | 104.70 | 1.50 | TR | .62 | n/a | n/a | .62 |
| 104.70 | 105.20 | 4b(ea). | 22315 | 104.70 | 105.20 | .50 | TR-1 | .01 | n/a | n/a | .01 |

105.20 119.05 CHERT-MAGNETITE I.F. / CHERT-GRUNERITE I.F.

4abh.

50 to 55% chert grunerite with remnants of magnetite.

20 to 25% magnetite as remnants of grunerite alteration locally as thin beds.

5 to 10% pyrrhotite as massive bands, stringers and blebs occurring as fracture filling and magnetite replacement, more concentrated toward lower contact.

5 to 10% quartz veins.

Well preserved bedding at 20 to 50 degrees to the core axis increasing toward lower contact and, becoming poor toward lower contact.

Poorly developed fracture cleavage at 43 to 70 degrees to the core axis.

Left limb folding axial plane 31 to 51 degrees to the core axis.

105.20 106.70 4abh.

105.21 119.05 Rock RQD 100%.

106.70 108.20 4ba.

108.20 109.70 4abh.

109.70 111.20 4abh.

111.20 112.70 4ab.

112.70 114.20 4abh.

114.20 115.70 4ab.

115.70 117.20 4abh.

117.20 118.20 4abh.

118.20 119.05 4ba.

| | | | | | | | | |
|-------|--------|--------|------|-------|------|-----|-----|------|
| 22316 | 105.20 | 106.70 | 1.50 | 2-3 | .55 | n/a | n/a | .55 |
| 22317 | 106.70 | 108.20 | 1.50 | TR-1 | .27 | n/a | n/a | .27 |
| 22318 | 108.20 | 109.70 | 1.50 | 1-2 | .69 | n/a | n/a | .69 |
| 22319 | 109.70 | 111.20 | 1.50 | 1-2 | .55 | n/a | n/a | .55 |
| 22320 | 111.20 | 112.70 | 1.50 | TR | .21 | n/a | n/a | .21 |
| 22321 | 112.70 | 114.20 | 1.50 | 3-5 | .34 | n/a | n/a | .34 |
| 22322 | 114.20 | 115.70 | 1.50 | 1 | .41 | n/a | n/a | .41 |
| 22323 | 115.70 | 117.20 | 1.50 | 5-8 | 1.03 | n/a | n/a | 1.03 |
| 22324 | 117.20 | 118.20 | 1.00 | 20-25 | 1.44 | n/a | n/a | 1.44 |
| 22325 | 118.20 | 119.05 | .85 | 55-60 | 1.51 | n/a | n/a | 1.51 |

119.05 124.50 TRENOLITE / CHLORITE MG BASALT
1d.

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: M5583
PAGE NO: 7

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

Fine grained, light grain altered mafic.
Fairly soft with a soapy feel.
Chlorite rich, found on all fracture surfaces.
1 to 2% quartz veins parallel to foliation.
Well developed foliation at 60 to 66 degrees to the core
axis.

119.06 124.50 Rock RQD 100%.

124.50 124.50 END OF HOLE

CASING LEFT IN HOLE AND CAPPED.

CORE STORED ON PROPERTY.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG,
MANITOBA.

REF COR: 7921.0 6034.5 SURVEYED: YES

PLACER DOME INC.
DIAMOND DRILL RECORD

LOCATION: 30+07M 2+35W GPID: EAST

HOLE NO: M5504
PROPERTY: MUSSELWHITE GRUBSTAKE (1973)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0 LENGTH: 248.0 ELEVATION: 5302.5

LOGGED BY: M BECKETT AND P GERTZBEIN

DIP: -53.0 CORE SIZE: BQ SYSTEM OF MEASURE: METRIC

DATE LOGGED: MAR 31 - APR 03, 1988

STARTED: MAR 30, 1988 COMPLETED: APRIL 03, 1988 CLAIM NO:

PURPOSE: TEST ESKER ZONE AT 5180 m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 21.00 | | -52.0 | 150.00 | | -45.0 |
| 30.00 | | -50.5 | 180.00 | | -41.0 |
| 60.00 | | -50.0 | 210.00 | | -40.0 |
| 90.00 | | -48.5 | 240.00 | | -37.0 |
| 120.00 | | -47.0 | | | |

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %P Au g/t RERUN REJECT AVERAGE

.00 21.00 OVERBURDEN
Boulders, gravel, sand.

21.00 49.40 FELSIC TO INTERMEDIATE VOLCANICS
Intermediate A Volcanics.
Fine grained to medium grained siliceous quartz feldspar volcanic package, with rare locally developed feldspar crystals less than or equal to 1 mm.
Unit contains 15 to 20% medium grained brown phlogopite, disseminated, and as phlogopite rich bands up to 2.0 cm, to produce a moderate compositional banding.
5 to 9% white carbonate stringers and veinlets 1 to 3 mm, parallel to foliation.
Rare barren white quartz veins, less than or equal to 2.5 cm, parallel to foliation.
Well foliated at 49 to 64 degrees to the core axis.
Moderately blocky throughout, with occasional gravelly sections over 5 to 10 cm. Silver dollar core locally developed; chlorite and carbonate observed on broken faces
Rare pyrite skins on some broken surfaces.
21.00 39.25 Rock RQD 75%.
39.25 42.50 Rock RQD 30%.
42.50 49.40 Rock RQD 65%.
47.00 48.50 A volc, trace pyrite.
49.00 62.70 Rock RQD 70%.

20930 47.00 48.50 1.50 0 .40 n/a n/a .40

PLACER DOME INC.

REF COR: 7821.0 6034.5 SURVEYED: YES

DIAMOND DRILL RECORD

LOCATION: 30+07N 2+35W GRID: EAST

HOLE NO: M5504

PROPERTY: MUSSELWHITE GRUBSTAKE (1873)
NORTHWESTERN ONTARIO

POST LOCATION:

SECTION:

AZIMUTH: 49.0

LENGTH: 248.0

ELEVATION: 5300.0

LOGGED BY: M BECKETT AND P GERTZBEIN

DIP: -53.0

CORE SIZE: BQ

SYSTEM OF MEASURE: METRIC

DATE LOGGED: MAR 31 - APR 03, 1988

STARTED: MAR 30, 1988

COMPLETED: APRIL 03, 1988

CLAIM NO:

PURPOSE: TEST ESKEF ZONE AT 5180 m EL

DIP TESTS (corrected)

| DEPTH | AZIMUTH | DIP | DEPTH | AZIMUTH | DIP |
|--------|---------|-------|--------|---------|-------|
| 21.00 | | -52.0 | 150.00 | | -45.0 |
| 30.00 | | -50.5 | 180.00 | | -41.0 |
| 60.00 | | -50.0 | 210.00 | | -40.0 |
| 90.00 | | -48.5 | 240.00 | | -37.0 |
| 120.00 | | -47.0 | | | |

| FROM | TO | DESCRIPTION | SAMPLE | FROM | TO | LENGTH | % | Au g/t | REJECT | AVERAGE |
|------|----|-------------|--------|------|----|--------|---|--------|--------|---------|
|------|----|-------------|--------|------|----|--------|---|--------|--------|---------|

| | | | | | | | | | | |
|-----|-------|---------------------------------------|--|--|--|--|--|--|--|--|
| .00 | 21.00 | OVERBURDEN Boulders, gravel, sand. | | | | | | | | |
|-----|-------|---------------------------------------|--|--|--|--|--|--|--|--|

21.00 49.40 FELSIC TO INTERMEDIATE VOLCANICS

Intermediate A Volcanics.

Fine grained to medium grained siliceous quartz feldspar volcanic package, with rare locally developed feldspar crystals less than or equal to 1 mm.

Unit contains 15 to 20% medium grained brown phlogopite, disseminated, and as phlogopite rich bands up to 2.0 cm, to produce a moderate compositional banding.

5 to 8% white carbonate stringers and veinlets 1 to 3 mm, parallel to foliation.

Rare barren white quartz veins, less than or equal to 2.5 cm, parallel to foliation.

Well foliated at 49 to 64 degrees to the core axis.

Moderately blocky throughout, with occasional gravelly sections over 5 to 10 cm. Silver dollar core locally developed; chlorite and carbonate observed on broken faces

Rare pyrite skins on some broken surfaces.

21.00 39.25 Rock RQD 75%.

39.25 42.50 Rock RQD 30%.

42.50 49.40 Rock RQD 65%.

47.00 48.50 A volc, trace pyrite.

49.00 62.70 Rock RQD 70%.

| | | | | | | | | |
|-------|-------|-------|------|---|-----|-----|-----|-----|
| 20930 | 47.00 | 48.50 | 1.50 | 0 | .48 | n/a | n/a | .48 |
|-------|-------|-------|------|---|-----|-----|-----|-----|

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH SPO Av g/t RERUN REJECT AVERAGE

25 to 30% 1 to 2 mm subhedral garnets supported in a massive to well foliated biotite matrix. Garnets increase in size and quantity downhole, from less than or equal to 3% at upper contact to 55 to 60% at lower contact. 3 to 5% amphibole rich 'a' beds, 5 to 8 cm, locally developed, parallel to foliation. Foliated at 63 degrees to the core axis. Rare barren quartz veins, up to 1.0 cm parallel to foliation.
138.65 140.70 Rock RQD 90%.
138.65 139.65 4f, character sample.
139.65 140.70 4f, character sample.

| | | | | | | | | |
|-------|--------|--------|------|---|-----|-----|-----|-----|
| 20958 | 138.65 | 138.65 | 1.00 | 0 | .01 | n/a | n/a | .01 |
| 20959 | 139.65 | 140.70 | 1.05 | 0 | .01 | n/a | n/a | .01 |

140.70 151.00 GARNET-AMPHIBOLE-CHELT-GRUNERITE IRON FORMATION

4ea.
50 to 55% moderately to well gruneritized 'ea' beds, 0.5 to 6.0 cm, with 25 to 30% 0.3 to 1.5 cm subhedral to glomeroporphyritic garnets. 3 to 5% garnet poor amphibole beds, 1.0 to 3.0 cm, (locally to 20 cm) with occasional biotite alteration. Moderately bedded at 70 to 75 degrees to the core axis, decreasing downhole to 40 to 52 degrees to the core axis below 148.5. 25 to 30% blue quartz, as veins 0.5 to 1.5 cm, but locally as silicified zones with moderate to intense bedding disruption over 1.0 m. Bedding improves below 148.0, with decrease in q and po, and increase in grunerite and 'f' bed content. Occasional folding below 145.8. Tight left limb folds from 145.8 to 149.0, with axial plane 61 to 72 degrees to the core axis, decreasing downhole to 50 to 52 degrees to the core axis below 147.5. Fold plunge is consistent at 5 to 10 degrees grid south. Tight antiform-synform pairs from 149.0 to 151.0, axial plane 53 to 60 degrees to the core axis. Plunge 0 to 5 degrees grid south.
140.70 151.00 Rock RQD 95 to 100%.
140.70 141.70 4ea, quartz veins, locally silicified.
141.70 142.70 4ea, quartz veins.
142.70 143.70 4ea.
143.70 144.70 4ea, silicified.
144.70 145.70 4ea, quartz veins, silicified.
145.70 146.70 4ea(f), occasional quartz veins.
146.70 147.70 4ea(f), mineralization confined to lower 30 cm.
147.70 148.70 4ea(f), quartz-carbonate veins.

| | | | | | | | | |
|-------|--------|--------|------|------|-------|-------|-----|-------|
| 20960 | 140.70 | 141.70 | 1.00 | 5-8 | 1.23 | n/a | n/a | 1.23 |
| 20961 | 141.70 | 142.70 | 1.00 | 5-7 | .89 | 1.10 | n/a | .89 |
| 20962 | 142.70 | 143.70 | 1.00 | 1-3 | .96 | n/a | n/a | .96 |
| 20963 | 143.70 | 144.70 | 1.00 | 5-10 | 2.00 | n/a | n/a | 2.00 |
| 20964 | 144.70 | 145.70 | 1.00 | 5-8 | 52.53 | 58.15 | n/a | 54.34 |
| 20965 | 145.70 | 146.70 | 1.00 | 1-2 | 1.17 | n/a | n/a | 1.17 |
| 20966 | 146.70 | 147.70 | 1.00 | 3-5 | 9.60 | n/a | n/a | 9.60 |
| 20967 | 147.70 | 148.70 | 1.00 | 2-4 | 2.61 | n/a | n/a | 2.61 |

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: MUSS04
PAGE NO: 6

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SpO | Au g/t | RERUN | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| 148.70 | 149.70 | 4ea, quartz rare. | 20968 | 148.70 | 149.70 | 1.00 | 1-3 | 2.47 | n/a | n/a | 2.47 |
| 149.70 | 151.00 | 4ea(f). | 20969 | 149.70 | 151.00 | 1.30 | TR-1 | .01 | n/a | n/a | .01 |
| 151.00 | 165.70 | GARNET-AMPHIBOLE-CHERT-GRUNERITE I.F. / GARNET-BIOTITE SCHIST 4ea(f). 40 to 45% moderately to heavily gruneritized 'ea' beds, 1.0 to 10.5 cm, with 10 to 15% 2 to 4 mm subhedral garnets 25 to 30% 'f' beds, locally chloritized, 0.9 to 5.5 cm, with 10 to 15% 1 to 2 mm subhedral garnets. 5 to 10% 'b' beds, less than or equal to 1.0 cm, carrying 1 to 2% magnetite laminae. Beds occasionally display poorly defined grunerite laminae less than or equal to 1.0 mm at contact with 'ea' beds. Well bedded at 42 to 63 degrees to the core axis. Occasional folding throughout unit. Synformal fold closure at 151.65, broad, open, with axial plane 39 degrees to the core axis. Antiformal fold closure at 153.0, broad, open, axial plane 48 degrees to the core axis. Right limb fold at 153.2 to 153.3, axial plane 37 degrees to the core axis. 3 to 5% quartz and quartz-carbonate veins, 0.5 to 2.0 cm, locally developed, associated with trace pyrrholite flecks. Bedding decreases below 159.0 to 38 to 48 degrees to the core axis. Tight left limb folds from 159.0 to 162.1, with axial plane 71 degrees to the core axis, decreasing to 44 degrees to the core axis. Locally defined crosscutting fracture set at 80 to 85 degrees to bedding. Fractures chlorite filled. Acute angle normal to core axis. 151.00 165.70 Rock RQD 95 to 100%. | | | | | | | | | |
| 151.00 | 152.50 | 4ea(f), rare quartz-carbonate veins. | 20970 | 151.00 | 152.50 | 1.50 | TR | 1.44 | n/a | n/a | 1.44 |
| 152.50 | 154.00 | 4ea(f). | 20971 | 152.50 | 154.00 | 1.50 | 0 | .01 | n/a | n/a | .01 |
| 154.00 | 155.50 | 4ea(f), quartz-carbonate veins. | 20972 | 154.00 | 155.50 | 1.50 | TR-1 | 1.30 | n/a | n/a | 1.30 |
| 155.50 | 157.00 | 4ea(f), rare quartz veins. | 20973 | 155.50 | 157.00 | 1.50 | TR-1 | 1.05 | n/a | n/a | 1.05 |
| 157.00 | 158.50 | 4ea(f), rare quartz-carbonate veins. | 20974 | 157.00 | 158.50 | 1.50 | TR | 1.10 | n/a | n/a | 1.10 |
| 158.50 | 160.00 | 4ea(f), rare quartz veins. | 20975 | 158.50 | 160.00 | 1.50 | TR | .01 | n/a | n/a | .01 |
| 160.00 | 161.50 | 4ea(f), quartz-carbonate veins. | 20976 | 160.00 | 161.50 | 1.50 | TR-1 | 1.30 | n/a | n/a | 1.30 |
| 161.50 | 163.00 | 4ea(f), 6 cm quartz vein. | 20977 | 161.50 | 163.00 | 1.50 | 0 | 2.74 | n/a | n/a | 2.74 |
| 163.00 | 164.50 | 4ea(f), quartz-carbonate veins. | 20978 | 163.00 | 164.50 | 1.50 | 2-4 | 5.03 | n/a | n/a | 5.03 |
| 164.50 | 165.70 | 4ea(f), rare quartz-carbonate veins. | 20979 | 164.50 | 165.70 | 1.20 | 0 | 5.62 | n/a | n/a | 5.62 |

70 156.80 GARNET - BIOTITE SCHIST

4f.

70 to 75% 'f' beds, 1.0 to 12.5 cm, with up to 20% less

FROM TO -----DESCRIPTION----- SAMPLE FROM TO LENGTH %Po Av g/t RERUN REJECT AVERAGE

4eba.

30 to 35% green, amphibole rich e beds, generally wispy and poorly preserved due to silicification and garnet growth. E beds contain 15 to 20% subhedral garnets to 4 mm rimmed with grunerite.

25 to 30% b beds with 5 to 8% magnetite as laminae.

Magnetite also occurs as disseminations in e beds.

10 to 15% grunerite alteration of magnetite in b beds and e beds locally forming ea beds.

10 to 15% quartz flooding disrupting bedding. Associated with quartz is pyrrhotite as stringers in quartz and e beds.

1 to 2% carbonate associated with quartz flooding.

2 to 3% f beds toward bottom of unit.

Moderately preserved bedding at 40 to 59 degrees to the core axis.

Well developed fracture cleavage at 60 to 67.

Fare left limb folding axial plane 60 to 69 degrees to the core axis.

221.00 222.00 4eba.

22339 221.00 222.00 1.00 TR .01 n/a n/a .01

221.01 227.40 Rock RQD 100%.

222.00 223.00 4eba moderately silicified.

22340 222.00 223.00 1.00 S-B 2.13 2.95 n/a 2.54

223.00 224.00 4eba moderately silicified.

22341 223.00 224.00 1.00 S-B 3.00 4.11 n/a 4.05

224.00 225.00 4eba, weakly silicified.

22342 224.00 225.00 1.00 TR-1 .01 n/a n/a .01

225.00 226.00 4ba.

22343 225.00 226.00 1.00 TR .06 n/a n/a .06

226.00 227.00 4eba.

22344 226.00 227.00 1.00 S-S .00 n/a n/a .69

227.00 227.40 4eba.

22345 227.00 227.40 .40 1-3 .62 n/a n/a .62

227.40 231.30 CHERT-MAGNETITE-GRUNERITE I.F. / GARNET-BIOTITE SCHIST

4ba(f).

50 to 60% heavily gruneritized 'b' beds, 0.7 to 2.5 cm, with 5 to 10% magnetite, generally disseminated.

20 to 25% magnetite poor chert beds, 0.5 to 1.0 cm, generally with grunerite margins up to 1 mm at contact with 'b' beds. Chert beds locally boudinaged.

10 to 15% 'f' beds, less than or equal to 1.0 cm, moderately to locally heavily chloritized, with 5 to 7% 1 to 3 mm subhedral garnets.

Well bedded at 30 degrees to the core axis, increasing downhole to 49 degrees to the core axis at lower contact.

Antiformal fold closures, tight, at 228.0 and 228.8, with axial planes 29 and 40 degrees to the core axis. Plunge is 5 to 10 degrees grid south.

Nil sulphides.

227.40 231.30 Rock RQD 100%.

228.50 230.00 4ba(f), character sample.

22346 228.50 230.00 1.50 0 .02 n/a n/a .02

PLACER DOME INC.
DIAMOND DRILL RECORD

HOLE NO: NUSS04
PAGE NO: 13

| FROM | TO | -----DESCRIPTION----- | SAMPLE | FROM | TO | LENGTH | SPo | Au g/t | BERUM | REJECT | AVERAGE |
|--------|--------|--|--------|--------|--------|--------|------|--------|-------|--------|---------|
| | | to 2% pyrrhotite stringers and blebs up to 4 mm. | | | | | | | | | |
| | | 236.20 240.85 Rock RQD 95 to 100%. | | | | | | | | | |
| | | 236.20 237.70 4bah, quartz veins associated with pyrrhotite stringers. | 22351 | 236.20 | 237.70 | 1.50 | 5-10 | 1.03 | 1.51 | n/a | 1.27 |
| | | 237.70 239.20 4ba. | 22352 | 237.70 | 239.20 | 1.50 | 1-3 | .34 | n/a | n/a | .34 |
| | | 239.20 240.20 4bah. | 22353 | 239.20 | 240.20 | 1.00 | 10 | .61 | n/a | n/a | .61 |
| | | 240.20 240.85 4bah. | 22354 | 240.20 | 240.85 | .65 | 15 | .02 | n/a | n/a | .02 |
| 240.85 | 248.00 | BASALT | | | | | | | | | |
| | | 2. | | | | | | | | | |
| | | Typical fine grained to medium grained medium green grey amphibole feldspar volcanic package, with up to 15% medium grained brown phlogopite, generally defined as a poor to moderate compositional banding. | | | | | | | | | |
| | | 1 to 3% carbonate stringers less than or equal to 2 mm, parallel to foliation. | | | | | | | | | |
| | | Well foliated at 50 to 58 degrees to the core axis. | | | | | | | | | |
| | | Tight left limb fold at 247.0, axial plane 49 degrees to the core axis. | | | | | | | | | |
| | | Nil sulphides. | | | | | | | | | |
| | | Blocky, chloritic throughout, with gravelly sections over 10 to 25 cm. Breakage generally occurs parallel to foliation planes. | | | | | | | | | |
| | | 240.85 248.00 Rock RQD 70 to 75%. | | | | | | | | | |
| | | 240.85 242.35 2, character sample. | 22355 | 240.85 | 242.35 | 1.50 | 0 | .01 | n/a | n/a | .01 |

248.00 248.00 END OF HOLE

CORE STORED ON PROPERTY.

HOLE CEMENTED AND CASING PULLED.

DRILLING BY MIDWEST DRILLING, 180 CREE CRESC. WINNIPEG, MANITOBA.

