1984 PROGRAM PROPOSAL

FOR THE

TISDALE PROJECT

TISDALE TOWNSHIP

PORCUPINE MINING DIVISION

ONTARIO

NTS 42 A/11

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Toronto, Ontario
February, 1984.

SUMMARY

The Davidson Tisdale gold property is situated in the Timmins Camp, the major gold producing area in North America, approximately 2 miles northeast of the Hollinger-McIntyre-Coniaurum orebodies which have collectively produced in excess of 100 million tons of ore with an average recovered grade of 0.29 oz. Au per ton. Timmins is a modern community of 50,000 population with all of the infrastructure required to sustain major mining operations.

The nature of the gold bearing quartz veining and the volcanic stratigraphy that hosts the veining on the Davidson Tisdale property is very similar to that in the major deposits of the Timmins Camp.

A number of gold bearing quartz veins have been known on the Davidson Tisdale property since 1909 when the property was the site of one of the original gold discoveries in the Timmins Camp. During the period 1911-1924 the property was explored by surface drilling and underground development with a production shaft being sunk in 1924. In 1924 lawsuits involving the Canadian promotors and British financiers who were behind the project tied the property up in the courts for 10 years and subsequently only sporadic surface exploration was carried out during the period 1934-1982.

In early 1983 Davidson Tisdale Mines Limited came under control of a new group who raised $1.5 million and have carried out an extensive surface and underground exploration program during 1983. The work carried our during 1983 has significantly enhanced the knowledge of the geometry of the mineralized vein zones and has greatly enhanced the economic potential of the property. In addition, stripping in the South Shaft area and one drill hole north of the Main Shaft area have discovered three zones of gold bearing pyritic tuffs. These tuff horizons are highly prospective, untested exploration targets.

The results of the 1983 exploration program when integrated with all available data for the property indicate that the potential exists for a major gold deposit on the property. Insufficient data is available to compute meaningful grade and tonnage figures, however, the available data indicates that in the Main Shaft area, three, subparallel vein zones occur between the surface and the 750 feet level. The zones vary in width from 10 to 60 feet, have been traced down dip for at least 500 feet vertically, and are exposed along a strike length of at least 400 feet in the underground workings. One drill intercept indicates down dip extent to at least 960 feet vertically and a strike extent of at least 1500 feet to the southwest of the Main Shaft workings.

Given the dimensions of the mineralized intercepts in the three known vein zones in the Main Shaft area, the potential exists to outline 3 to 5 million tons to a vertical depth of 750 feet in each of the vein zones within an area 2500 by 1000 feet.

The erratic nature of gold mineralization within lode gold deposits makes it difficult to assess grade potential by diamond drilling. The available assay data indicate that the deposit will have a grade similar to that of the remainder of the Timmins Camp.

It is concluded that the Davidson Tisdale property has a high potential for the discovery and development of a major gold deposit and that the acquisition by Getty of a 50% interest in the property represents an above average investment opportunity and provides participation in an advanced gold project in the heart of the major gold producing camp in North America.

An exploration program of land surveying, detailed geological and structural mapping, drill testing of the known lode gold vein systems in order to indicate the tonnage and grade potential of the vein systems along with initial drill testing of the known gold-bearing sedimentary sequences of the property is recommended for 1984. The 1984 exploration budget required to carry out the recommended program is $2,000,000.

INTRODUCTION

The following report reviews the exploration history of the Davidson Tisdale gold property with conclusions and recommendations drawn from all available data pertaining to the property.

During the period July to December 1983, Davidson Tisdale carried out an active exploration program in which the geometry of the mineralized quartz vein systems were redefined greatly enhancing the economic potential of the property. Additional work carried out by Davidson Tisdale during the first two months of 1984 has confirmed the geological setting of the quartz vein systems in which there is untested strike and depth potential in which a 3 to 5 million ton orebody can be hosted.

On this basis Getty has acquired a 50% interest in the property with the position of operatorship. The remaining 50% interest belongs to Davidson Tisdale Mines Limited. Getty funds 100% of the expenditures up to $6,000,000 in order to confirm its 50% interest and in order to maintain its interest Getty must purchase 500,000 common shares in the capitalization of Davidson Tisdale Mines Limited for a cash payment of $4,000,000. During 1984 Getty must spend $2,000,000 to confirm a 25% interest in the property.

PROPERTY, LOCATION, ACCESS AND INFRASTRUCTURE

The Davidson Tisdale property (See Map 1) is located in the northeast quarter of Tisdale Township approximately 2 miles northeast of the Hollinger - McIntyre - Coniaurum orebodies which have collectively produced in excess of 100 million tons of ore with an average recovered grade of 0.29 oz. gold per ton.

A 2½ mile gravel road provides ready access to the property from Highway 101.

The property is located within the municipal boundaries of the City of Timmins (population 50,000), a municipality with a 75 year mining history. Timmins is a modern community with all of the infrastructre required to sustain major mining operations. The Timmins Camp is the largest gold producer in North America having produced in excess of 58 million ounces of gold from 215,000,000 tons of ore mined. In addition Timmins is the site of a large base metal mining, smelting and refining complex operated by Kidd Creek Mines.

LAND POSITION

Davidson Tisdale Mines Limited property consists of 9 patented mining claims in two blocks in Tisdale Township, Ontario, comprising 356 acres (Map 1).

The North Group consists of 2 contiguous claims covering the northwest and southwest quarters of the south half of Lot 2, Concession 6.

The South Group consists of 7 contiguous claims covering the southwest quarter of the north half of Lot 2, Concession 5, the northwest and southwest quarters of the south half of Lot 2, Concession 5, and the south half of Lot 3, Concession 5.

Davidson Tisdale controls both the mining and surface rights to the properties.

REGIONAL GEOLOGY

The attached Map 1 (George 1967) outlines the geology of the Timmins gold camp.

The area is underlain by a thick sequence of Archean volcanic and sedimentary rocks that have been intruded by synvolcanic and post tectonic felsic rocks. The structural geology of the area is complex. At least three major periods of deformation are recognized which have resulted in a series of doubly plunging, upright, isoclinal folds offset by major fault structures and related secondary faults.

As illustrated in the legend on Map 1 and in Table 1 the volcanic-sedimentary sequence in the area has been subdivided into three major groups, the Deloro, Tisdale and Porcupine Groups.

The Deloro Group is characterized by a poorly developed Lower Formation made up of ultramafic volcanic flows overlain by a Middle Formation made up of calc alkalic and tholeitic, basaltic and andesitic flows in turn overlain by an Upper Formation made up of calc alkalic, dacitic flows and pyroclastic rocks with a well developed regional iron formation at or near the top of the Upper Formation. No significant gold production is associated with the Deloro Group in the Timmins area.

The base of the Tisdale Group is marked by the Goose Lake Formation, a regionally well developed sequence of ultramafic volcanic flows, overlain by the Schumacher Formation made up of a sequence of tholeitic, high Fe basaltic flows containing a number of regionally developed carbonate exhalite units. The Schumacher Formation is overlain by felsic pyroclastic rocks of the Krist Formation. Major gold production in the Timmins Camp is all associated with the Tisdale Group, and in particular, with the portion of the stratigraphy below the V8-V10B Volcanic Marker of the Schumacher Formation down section to and including the upper part of the Goose Lake Formation.

The Porcupine Group is made up of clastic sedimentary rocks, primarily shales and greywackes with minor polymictic conglomerate. The sedimentary rocks of the Porcupine Group dominantly appear to overlie the volcanic rocks of the Tisdale and Deloro Groups, however, the sedimentary rocks may be the stratigraphic equivalent of the volcanic rocks away from the major centres of volcanism. The Porcupine Group has been subdivided into Older and Younger Sediments, the Younger Sediments (locally called Timiskaming) unconformably overlying the Older Sediments and the Tisdale Group.

TABLE 1
TABLE OF FORMATIONS
AND
GOLD PRODUCTION

ARCHEAN

Felsic Intrusive Rocks

Granite (late Archean)
Quartz-feldspar porphyry (Synvolcanic)
- - Intrusive Contact - -

Porcupine Group

Younger Sediments
- - Angular Unconformity - -

Younger Sediments at or near unconformity host 11% of Production; 25,000,000 tons, 0.11 oz. Au recovered per ton.

Older Sediments

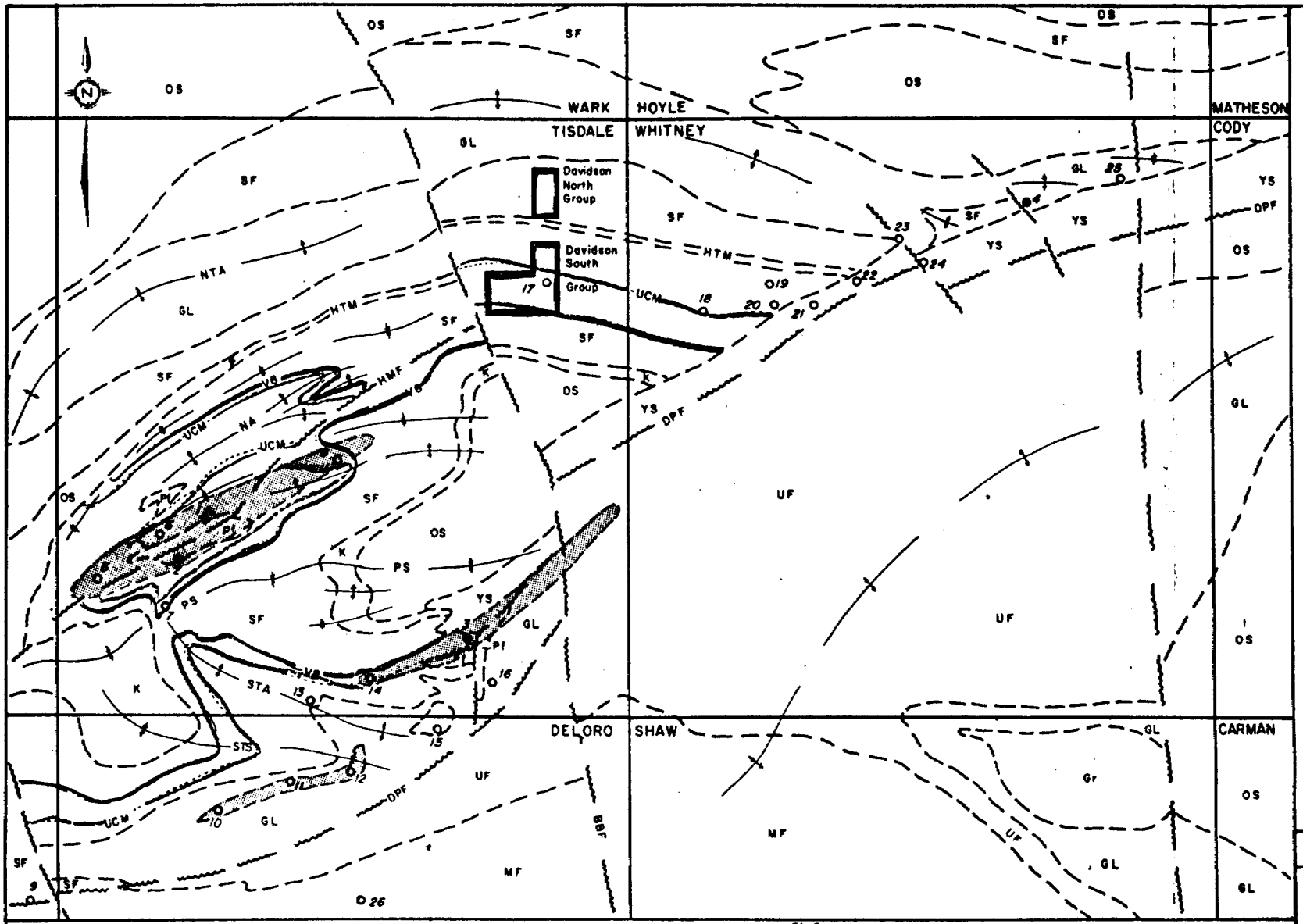
Tisdale Group

Krist Formation
Schumacher Fm.
Goose Lake Fm.

3000 ft. stratigraphic thickness, hosts 89% of Timmins production; 190,000,000 tons, 0.29 oz. Au recovered per ton.

Delora Group.

Upper Formation
Middle Formation
Lower Formation



LEGEND

- Gr — Granite (late Archean)
- PF — Quartz-feldspar porphyry (Synvolcanic)

PORCUPINE GROUP

- YS — Younger Sediments
- OS — Older Sediments

TISDALE GROUP

- K — Krist Fm.
- SF — Schumacher Fm.
- UCM — Upper Carbonate member
- V8 — V8 Volcanic Marker
- HTM — Hallnor 'Trachyte' marker
- GL — Goose Lake Fm.

DELORO GROUP

- UF — Upper Fm.
- MF — Middle Fm.
- LF — Lower Fm.
- Fault
- BBF — Burrows-Benedict Fault
- DPF — Destor-Porcupine Fault
- HMF — Hollinger Mine Fault
- Anticline, Syncline
- PS — Porcupine Syncline
- NA — Northern Anticline
- NTA — North Tisdale Anticline
- STA — South Tisdale Anticline
- STS — South Tisdale Syncline
- Areal Extent of Major Orebodies

● PRODUCING GOLD MINES

1. McIntyre (Pamour)
2. Hollinger
3. Dome
4. Pamour

○ PAST PRODUCING GOLD MINES

5. Moneta
6. Cons. Gillies
7. Vipond
8. Conidurum
9. Kenilworth
10. Delnite
11. Aunor
12. Buffalo
13. Fuller
14. Paymaster
15. Cinq Porc
16. Preston
17. Davidson
18. Banner
19. Reef
20. Hugh Pam
21. Bonwhit
22. Bonetal
23. Hallnor
24. Broulan
25. Hoyle
26. McLaren

0 — 1 mile

TISDALE PROJECT

REGIONAL GEOLOGY
TIMMINS AREA
Modified after George (1967)

DRAWN BY	DATE
CHECKED BY	DRAWING No.
NTS 42A5,6,11,12	SCALE 1:63360

Getty Canadian Metals, Ltd.

Gold mineralization in the Timmins Camp displays a number of characteristics.

1) The dominant source of gold ore is quartz vein lodes containing locally spectacular free gold. In recent years as higher gold prices allowed mining lower grade material it has become widely recognized within the camp that the mafic volcanic host rocks carry values in the range 0.04 to 0.10 oz Au per ton for considerable distances away from the quartz vein zones.

2) The quartz vein lode deposits are structurally controlled areas of dilatancy where open space allowed the development of the vein zones.

3) The gold production in the Timmins area is all related to rocks of the Tisdale Group and in particular with the portion of the stratigraphy below the V8-V10B Volcanic Marker of the Schumacher Formation down section to and including the upper part of the Goose Lake Formation.

4) Some gold production comes from the overlying Younger Sediments of the Porcupine Group. All of the production occurs in quartz vein lodes at or near the unconformity where it is underlain by the productive portions of the Tisdale Group. Some geologists have suggested that original concentration of gold in the Younger Sediments was as placers derived from the underlying volcanic rocks with subsequent upgrading by emplacement of quartz veins during regional metamorphism and deformation

(5) Some gold production comes from sulphide (pyrite) bearing pyroclastic units within the mafic volcanic sequence.

ORE GENESIS

It is beyond the scope of this report to review concepts of gold ore genesis in the Timmins area, however, the following is the currently favoured, very generallized model for the camp:

(a) Initial "protore" concentration of gold occurred during volcanism and was confined to volcanic rocks of the lower part of the Tisdale Group. This part of the volcanic stratigraphy also contains a number of carbonate exhalite units.

(b) During regional metamorphism and deformation, mobilization of volatiles, in particular water and carbonate, caused locally intense carbonatization of the ultramafic and theoleitic basaltic volcanic rocks. This alteration process released abundant silica to the metamorphic solutions.

(c) Deformation produced zones of dilatency due to fracturing in competent lithologic units with deposition of major quartz vein systems within these fracture zones.

(d) Gold mineralization occurs within the quartz veining, within the wallrocks, and in locally spectacular concentrations within zones of late fracturing within the quartz veins.

PROPERTY, EXPLORATION HISTORY

Kirwan (1983) has reviewed in detail the history of the property and has compiled all available data for the property up to the end of 1982.

The following 1900-1982 overview is based on data contained in Kirwan's report.

1900-1982.

A number of zones of gold bearing quartz veins have been known on the property since 1909 when the property was the site of one of the original gold discoveries in the camp (Dome, Hollinger, and McIntyre were also discovered in 1909).

The property was explored by surface drilling and underground development during the period 1911-1924. Thirteen surface holes totalling 13,348 feet were completed between 1919 and 1922. The Main Shaft was sunk to a depth of 300 feet with an internal winze from 300 to 600 feet. Levels were established at 100, 200, 300, 500, and 600 feet. The Horseshoe Shaft was sunk to a depth of 810 feet in 1924 and was planned to be a production shaft. The Horseshoe Shaft is not connected to the Main Shaft workings.

In 1924 the property became tied up in the courts over a disagreement between the Canadian promoters and their British financial backers. The ensuing court case caused considerable loss of public confidence in the Davidson operations.

In 1933 the property was acquired by Ventures Limited and held until 1945. Geological mapping was carried out in 1934 and 11 holes totalling 4,251 feet were drilled in 1945. The results of the Ventures drilling failed to prove to Venture's satisfaction the presence of sufficient ore to warrant reactivating the old mine.

In 1981 Dome Mines optioned the property, drilled 10 holes totalling 3,895 feet and in 1982 dropped their option. The principle reason for Dome dropping their option was other corporate financial obligations. Dome at that time was under severe financial pressure due to Dome Petroleum's financial difficulties.

1983

In early 1983 Davidson Tisdale Mines Limited came under the control of a new group who raised $1.5 million and have carried out an extensive surface and underground exploration program.

During 1983 the following work has been completed:

1) A north-south, 100 feet line spacing grid with pickets at 50 feet intervals was established over the North and South Properties.

2) Ground geophysical surveys were carried out on the grids:

   (a) Magnetic and VLF-EM Surveys on the South Property

   (b) Magnetic, VLF-EM, Maxmin II HEM, and Pulse EM on the North Property.

(3) Kirwan (1983) completed a thorough compilation of all available data on the property up to and including the geophysical surveys completed early in 1983.

Kirwin concluded that the numerous and widespread indications of both gold and copper mineralization made it difficult to choose where to start exploring. Kirwan recommended an extensive program with the proviso that the program should remain flexible and respond to results generated as the program proceeds.

The surface exploration program recommended by Kirwan involved extensive stripping in the Main Shaft, South Vet Shaft and South Shaft areas plus drilling in the Main Shaft area.

An underground program involving unwatering and surveying of the old workings, extensive geological mapping and assaying, and underground drilling was recommended.

(4) The program carried out since May 1983 was basically as outlined above, however, certain aspects were de-emphasized as the program proceeded due to results achieved and budgetary limitations.

By the end of 1983 the following work had been completed:

(a) Extensive stripping in the Main Shaft, South Vet and South Shaft areas and in the T-Zone area where a new gold showing was discovered by the stripping program.

(b) Extensive percussion drill sampling of the stripped area around the Main Shaft to test the open pit potential.

(c) Twenty-three holes totalling aproximately 7000 feet were completed in the Main Shaft area.

(d) The underground workings were dewatered and rehabilitated, extensive sampling and assaying was completed, and geological mapping was initiated. No underground drilling was completed.

As the program advanced during 1983, in particular, once the underground workings were available for inspection in the 3rd Quarter, it became apparent that the major vein structures have a NNE strike direction (approx. 015°) and a northwesterly (45°) dip direction rather than near vertical dip as had been inferred in the past.

Drilling completed during the 4th Quarter of 1983 and the 1st two months of 1984 has confirmed the geometry of the mineralized zone and greatly enhances the economic potential of the property.

PROPERTY GEOLOGY

As illustrated in Map 1, the property is underlain by the economically favourable mafic volcanic stratigraphy of the lower part of the Tisdale Group. The important V8-V10B marker crosses the south part of the property.

Map 2 provides a more detailed geological map of the property based on mapping carried out in 1934. Both Map 1 and Map 2 provide an oversimplified picture of the structural geology of the property. While the rocks underlying the property overall strike in an easterly direction with steep dips and tops generally to the south, one day spent on the property by P.T. George indicated the presence of abundant secondary drag folding as envidenced by local reversals in top directions determined from pillow facings and flow top breccias.

Two major types of gold mineralization are known to occur on the property:

1) Quartz vein lodes containing free gold.

(2) Sulphide bearing pyroclastic horizons locally containing fine free gold.

Within the Main Shaft area, at least three, subparallel quartz vein zones have been identified to a depth of 750 feet. The vein zones strike in a NNE direction and dip to the northwest at approximately 45 degrees. The projected surface trace and depth contours to the upper contact of the Upper Vein Zone are shown on Map 2.

Immediately to the north of the South Shaft stripping completed in 1983 has exposed a zone of cherty pyritic tuffs within mafic volcanic rocks. Grab samples (7)from this poorly exposed area returned 0.04 to 0.17 Au per ton.

The economic potential of the gold minealization on the property is discussed in a following section of this report.

PROPERTY, ECONOMIC POTENTIAL

The results of the 1983 exploration program when integrated with all available data for the property indicate that the potential exists for a major gold deposit on the property. In the second half of 1983 a major breakthrough was made in understanding the overall structural control of mineralization on the property, the breakthrough being the confirmation by drilling and underground mapping that the major vein zones on the property strike in a northeasterly direction and dip in a northwesterly direction at approximately 45 degrees. Previous exploration (1911-1982) has assumed that the major structures had an east-northeasterly strike direction and near vertical dip similar to the Hollinger-McIntyre-Coniaurum vein zones.

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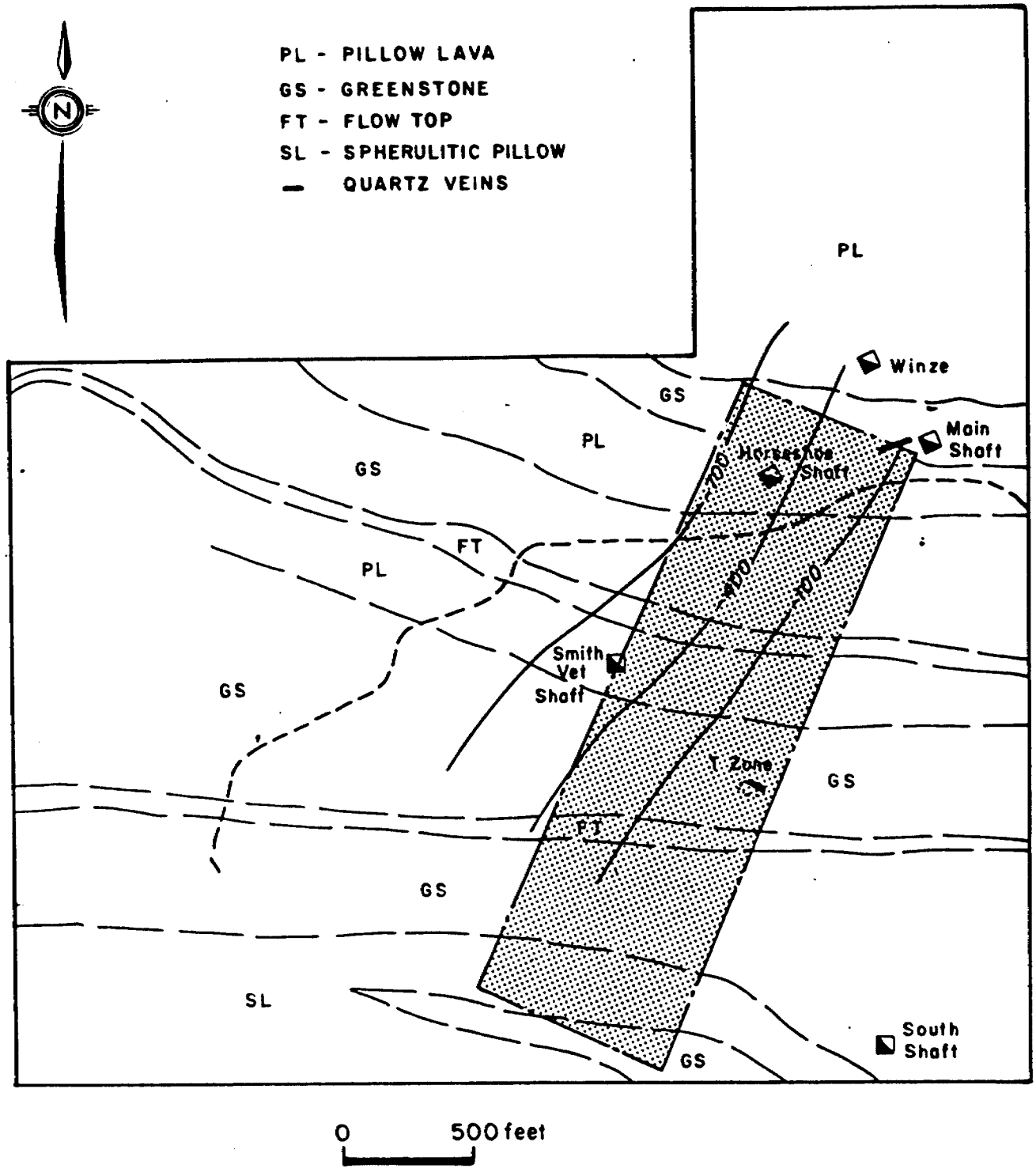


GEOLOGICAL CONTACT

PROPOSED DRILL AREA

-100 INFERRED DEPTH TO TOP OF Nº1 VEIN ZONE

ROAD

SHAFT

TISDALE PROJECT

SOUTH CLAIM BLOCK

DRAWN BY A.M.	DATE Feb. 1984
CHECK'D BY.	DRAW'G No
NTS	SCALE

Getty Canadian Metals, Ltd.

The northwesterly dipping attitude of the vein structures is compatible with the regional geology of Tisdale Township (See Map 1). The Davidson-Tisdale property is east of the northerly striking Burrows-Benedict Fault zone whereas the Hollinger-McIntyre-Coniaurum properties are west of the fault zone. Changes in bedding attitude and stratigraphy across the Burrows-Benedict Fault indicate that left lateral movement has occurred and that the east block has been rotated through approximately 45 degrees in a clockwise direction relative to the west block. On a regional scale the Davidson Tisdale vein zones can be interpreted to be the northeasterly strike extension of the Hollinger-McIntyre-Coniaurum vein zones.

Insufficient data is available to compute meaningful grade and tonnage figures at this point in time, however, compilation of all available drill hole and underground data on a series of working plans and sections indicates the presence of three, northwesterly dipping vein zones between the surface and 750 foot level. The vein zones vary in width from 10 to 60 feet with intercepts ranging in grade from trace to 0.92 oz Au per ton. The vein structure has not been thoroughly drill tested along strike to the southwest where a minimum of 2500 feet of untested strike potential exists. The zone has a minimum strike length of 400 feet where exposed on the 500 feet level and is open along strike to the southwest where one hole (Hole N) has intersected the zone at a vertical depth of 960 feet approximately 1500 feet southwest of the mine workings. The potential for additional parallel vein zones at depth has not been tested.

Given the widths of mineralized intercepts in the three known vein zones in the Main Shaft area, the potential exists to outline 3 to 5 million tons to a depth of 750 feet in each of the vein zones in an area 2500 feet by 1000 feet.

The erratic nature of gold mineralization within lode gold deposits makes it difficult to assess grade potential with diamond drilling. The available assay data indicates that the deposit should have a grade similar to that of the remainder of the Timmins Camp (0.29 oz. recovered Au per ton).

The authors would like to insure that all persons who are currently involved with the Davidson Tisdale property and those who may become involved in the decision making process in the future are very aware of the problems inherent in evaluating a lode gold deposit.

Because of the typical erratic distribution of free gold within quartz vein systems it is very difficult to obtain a representative sample of the zone by diamond drilling.

Roger (1981) succinctly summarizes the problem of evaluating a lode gold deposit by diamond drilling. The conclusions drawn from his paper "Diamond Drilling as an aid in ore definition at the Dome Mine" are summarized below and are based on 72 years of mining during which time over 22,000 holes (4,290,000 feet) have been drilled through the Dome ore body (average recovered grade 0.30 oz Au/ton):

(1) Greater than 50% of drill footage within areas of the ore zone that were subsequently stoped returned assays less than 0.05 oz. Au per ton.

(2) Grades calculated for a drill defined ore structure will understate the mined (diluted) grade by 60 to 400%.

The Dome experience will have to be taken into account when assessing the results of exploration drilling carried out on the property. Drilling will provide reliable information on the volume and tonnage of the vein structure present but will understate the grade, therefore, underground development in the form of drifts and raises will have to be undertaken to develop mineable reserves.

The primary objective of drilling on the Davidson Tisdale property will be to outline the geometry of the vein zones, to drill indicate the tonnage potential of the vein zones, and to establish the approximate gold content of the vein zones.

In addition to the quartz vein lode potential of the property, surface sampling completed in the fall of 1983 indicates the potential to develop significant reserves in gold bearing pyritic tuffs known to occur on the property. Grab samples taken from a poorly exposed zone of tuffs located in the south part of the property returned assays ranging from 0.04 to 0.17 oz. Au per ton. These tuff horizons are highly prospective, untested exploration targets.

CONCLUSIONS

The Davidson Tisdale property has high potential for the discovery and development of a major gold deposit.

The Main Shaft vein zone is geologically very similar to the major, world class, vein type gold deposits of the Timmins Camp. A thorough evaluation of all available data indicates that the Main Shaft vein zone is open at depth and along strike.

The possibility is very real that 10 to 15 million tons of ore can ultimately be outlined in the Main Shaft vein zone to a depth of 1000 feet. Average recovered gold grade for the camp is 0.29 oz. Au per ton.

During the 1983 exploration program three zones of gold bearing, pyritic tuff were discovered on the property. These tuff horizons are totally unexplored and are highly prospective untested targets.

The property is located in the heart of one of the major gold producing areas in North America. The presence of a modern, mining oriented, socio-economic infrastructre within 2 miles of the property will keep capital and operating costs of any mine discovered very competitive and will reduce the time frame from production decision to actual production.

The acquisition of the Davidson Tisdale property by Getty represents an excellent opportunity to participate in an advanced gold project in the heart of the major gold producing camp in North America.

RECOMMENDATIONS

It is recommended that the 1984 exploration program consist of:

1) Surveying of the property boundary and the tieing in of existing shafts and drill holes to the established grid and to the UTM Co-ordinate system.

2) Drill testing the tonnage and grade potential of the 3 known, parallel lode gold-vein systems on the property to a vertical depth of 230 metres along a strike length of 700 metres (Figure 2). This drilling will consist initially of 100 m centred holes with follow-up drilling pending the results of the initial drilling, at 50 m centres. This drill program should consist of approximately 12,000 to 15,000 metres (50 core holes) and given positive results will indicate sufficient tonnage to warrant embarking on an underground exploration program.

3) Initial drill testing of the 2 separate sedimentary sequences which are known to be gold-bearing. The hole locations for this drilling will be determined upon evaluation and compilation of all the data generated to date. This drill program should consist of approximately 3,000 metres (10 core holes).

4) Detailed geological and structural mapping of both the north and south claim groups.

The 1984 work program will commence on March 1 and be completed by December 1984. Attached for reference is a flow diagram outlining the work programme to be carried out. The required exploration budget for the proposed 1984 work program is $2,000,000. (Table 2). Quarterly and monthly expenditure distribution sheets are attached.

Respectfully submitted,

P.T. George
D. Titaro

TABLE 2

TISDALE PROJECT

1984 PROPOSED PROGRAM BUDGET

Description	$ Cdn.
Equipment Rental and Storage - vehicles, office facilities etc.	$ 50,000.
Disposable Supplies	35,000.
Contract Services - Land Surveying	25,000.
Contract Geological - (4 geologist, 1 mapper, 2 core grabbers, 1 draftsperson, 1 secretary).	265,000.
Camp Support - materials, supplies, hotel accommodations.	60,000.
Diamond Drilling - (total of approx. 15,000 metres @ $54/metre)	825,000.
Analytical - (approx. 10,000 samples)	100,000.
Program Expenses incurred by DTM in - January and February.	290,000.
Travel & Accomodation	30,000.
Salaries & Benefits	140,000.
Administration (10%)	180,000.
TOTAL:	$2,000,000.

REFERENCES:

George, P.T.
1967 The Timmins Area, District of Cochrane; Ontario Department of Mines, Preliminary Map P425, Scale 1=63,360.

Kirwan, J.L.
1983 Davidson Tisdale Mines Limited, Tisdale Township Properties, Ontario; unpublished report for Davidson Tisdale Mines Limited by Earth Resource Associates, April 1, 1983; 140 p.

Rogers, D.S.
1981 Diamond drilling as an aid in ore definition at the Dome Mine; reprint of paper presented at C.I.M.M. 83rd Annual Meeting, Calgary, Alberta, 17 p.

TORONTO, ONTARIO
APRIL 12, 1984

TO: DAVIDSON TISDALE MINES LIMITED

ATTN: K.R. KENT

FROM: P.T. GEORGE

SUBJECT: TISDALE QUARTERLY REPORT FOR THE PERIOD JANUARY 1 TO MARCH 31, 1984.

ABITIBI-WABIGOON VOLCANIC BELT

TISDALE PROJECT (Gold) Ontario
(Getty 50%, Davidson Tisdale Mines Ltd 50%)
(Getty is operator)

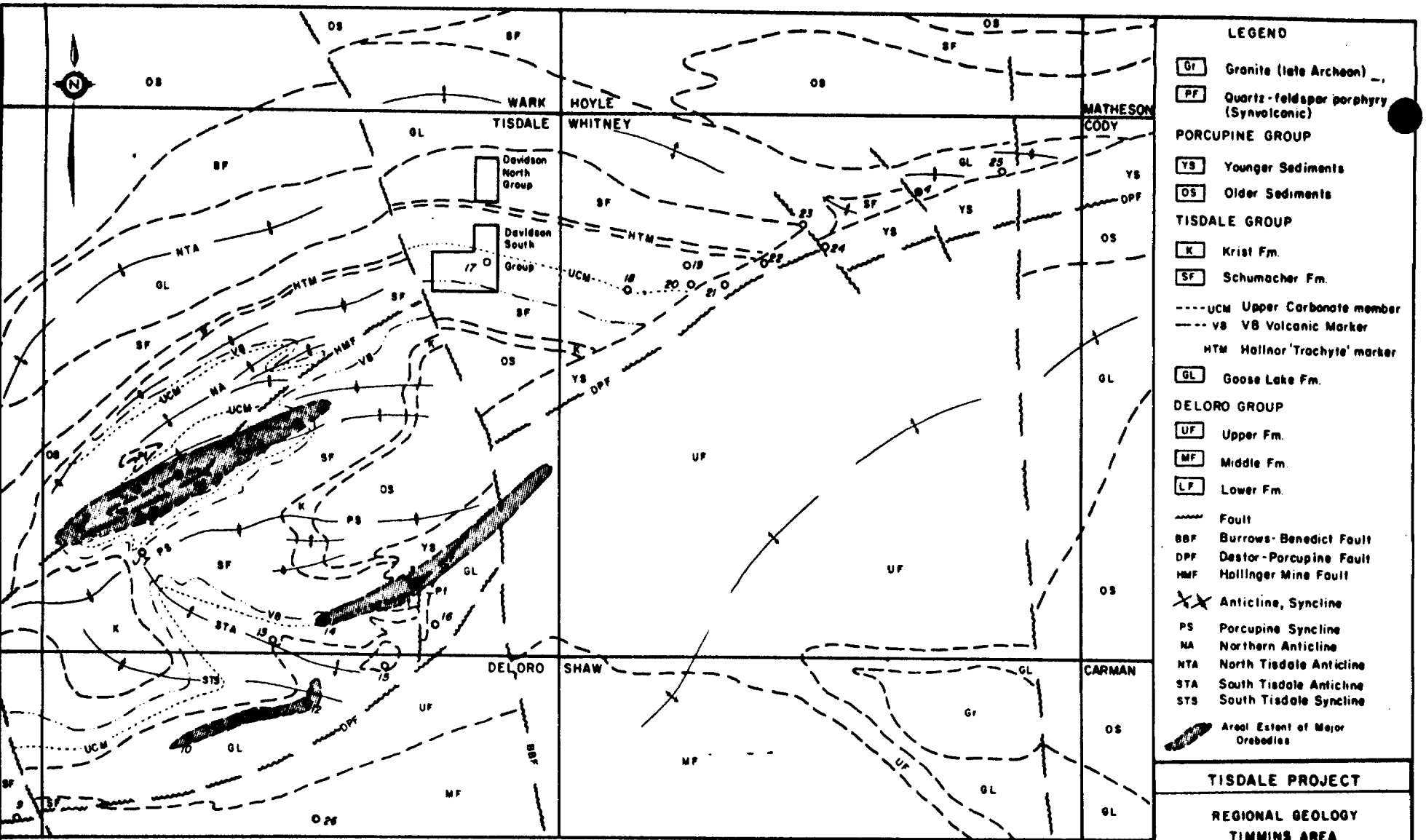
SUMMARY

The Davidson Tisdale gold property is situated in the Timmins Camp, the major gold producing area in North America, approximately 2 miles northeast of the Hollinger-McIntyre-Coniaurum orebodies which have collectively produced in excess of 100 million tons of ore with an average recovered grade of 0.29 oz. Au per ton. Timmins is a modern community of 50,000 population with all of the infrastructure required to sustain major mining operations.

The nature of the gold bearing quartz veining and the volcanic stratigraphy that hosts the veining on the Davidson Tisdale property is very similar to that in the major deposits of the Timmins Camp.

A number of gold bearing quartz veins have been known on the Davidson Tisdale property since 1909 when the property was the site of one of the original gold discoveries in the Timmins Camp. During the period 1911-1924 the property was explored by surface drilling and underground development with a production shaft being sunk in 1924. In 1924 lawsuits involving the Canadian promotors and British financiers who were behind the project tied the property up in the courts for 10 years and subsequently only sporadic surface exploration was carried out during the period 1934-1982.

In early 1983 Davidson Tisdale Mines Limited came under control of a new group who raised $1.5 million and carried out an extensive surface and underground exploration program during 1983. The work carried our during 1983 has significantly enhanced the knowledge of the geometry of the mineralized vein zones and has greatly enhanced the economic potential of the property.



LEGEND

- Gr — Granite (late Archean)
- PF — Quartz-feldspar porphyry (Synvolcanic)

PORCUPINE GROUP

- YS — Younger Sediments
- OS — Older Sediments

TISDALE GROUP

- K — Krist Fm.
- SF — Schumacher Fm.
- ----UCM — Upper Carbonate member
- —— VB — VB Volcanic Marker
- HTM — Hallnor 'Trachyte' marker
- GL — Goose Lake Fm.

DELORO GROUP

- UF — Upper Fm.
- MF — Middle Fm.
- LF — Lower Fm.

- Fault
- BBF — Burrows-Benedict Fault
- DPF — Destor-Porcupine Fault
- HMF — Hollinger Mine Fault
- Anticline, Syncline
- PS — Porcupine Syncline
- NA — Northern Anticline
- NTA — North Tisdale Anticline
- STA — South Tisdale Anticline
- STS — South Tisdale Syncline
- Areal Extent of Major Orebodies

PRODUCING GOLD MINES

1. McIntyre (Pamour)
2. Hollinger
3. Dome
4. Pamour

PAST PRODUCING GOLD MINES

5. Moneta
6. Cons Gillies
7. Vipond
8. Coniaurum
9. Kenilworth
10. Delnite
11. Aunor
12. Buffalo
13. Fuller
14. Paymaster
15. Cinq Porc.
16. Preston
17. Davidson
18. Banner
19. Reef
20. Hugh Pam
21. Bonnhit
22. Bonetal
23. Hallnor
24. Broulan
25. Hoyle
26. McLaren

0 — 1 mile

TISDALE PROJECT

REGIONAL GEOLOGY
TIMMINS AREA

Modified after George (1967)

Getty Canadian Metals, Ltd.

The results of the 1983 exploration program when integrated with all available data for the property indicate that the potential exists for a major gold deposit on the property. Insufficient data is available to compute meaningful grade and tonnage figures, however, the available data indicates that in the Main Shaft area, three, subparallel vein zones occur between the surface and the 750 feet level. The zones vary in width from 10 to 60 feet, have been traced down dip for at least 500 feet vertically, and are exposed along a strike length of at least 400 feet in the underground workings. One drill intercept indicates down dip extent to at least 960 feet vertically and a strike extent of at least 1500 feet to the southwest of the Main Shaft workings.

The Davidson Tisdale property has a high potential for the discovery and development of a major gold deposit and the acquisition by Getty of a 50% interest in the property represents an above average investment opportunity and provides participation in an advanced gold project in the heart of the major gold producing camp in North America.

An exploration program of land surveying, detailed geological and structural mapping, drill testing of the known lode gold vein systems in order to indicate the tonnage and grade potential of the vein systems is recommended for 1984. The 1984 exploration budget required to carry out the recommended program is $1,325,000 U.S. (Net G.O.C.)

On March 1, 1984 Getty took over as operator of the Tisdale joint venture following Davidson Tisdale Mines shareholders approval of the proposed joint venture agreement. During the month of March 4 core holes were completed for a total of 1048 metres. Quartz vein systems were encountered in every hole with visible gold encountered in core hole GT-35B. Also during the month, underground mapping and sampling of the 30 m level (100') was completed. A retracement survey of the south claim block property boundary was initiated during the month of March and is 90% complete.

During the months of January and February, Davidson Tisdale completed 11 core holes for 2,080.56 metres within the immediate vicinity of the Main Shaft Area. Also mapping and sampling of the 91.44 m (300') and 60.96 m (200') levels were completed during January and February.

DIAMOND DRILLING

A) DAVIDSON TISDALE CORE HOLES

Eleven (11) core holes (2,080.56 m) were completed on the property by Davidson Tisdale Mines Ltd during January and February of 1984. All of this drilling was carried out in the immediate vicinity of the Mine workings of the Main Shaft area at a relatively close drill spacing (see accompanying plan map). Details of this drill program are found below and summarized in Table I.

TABLE I

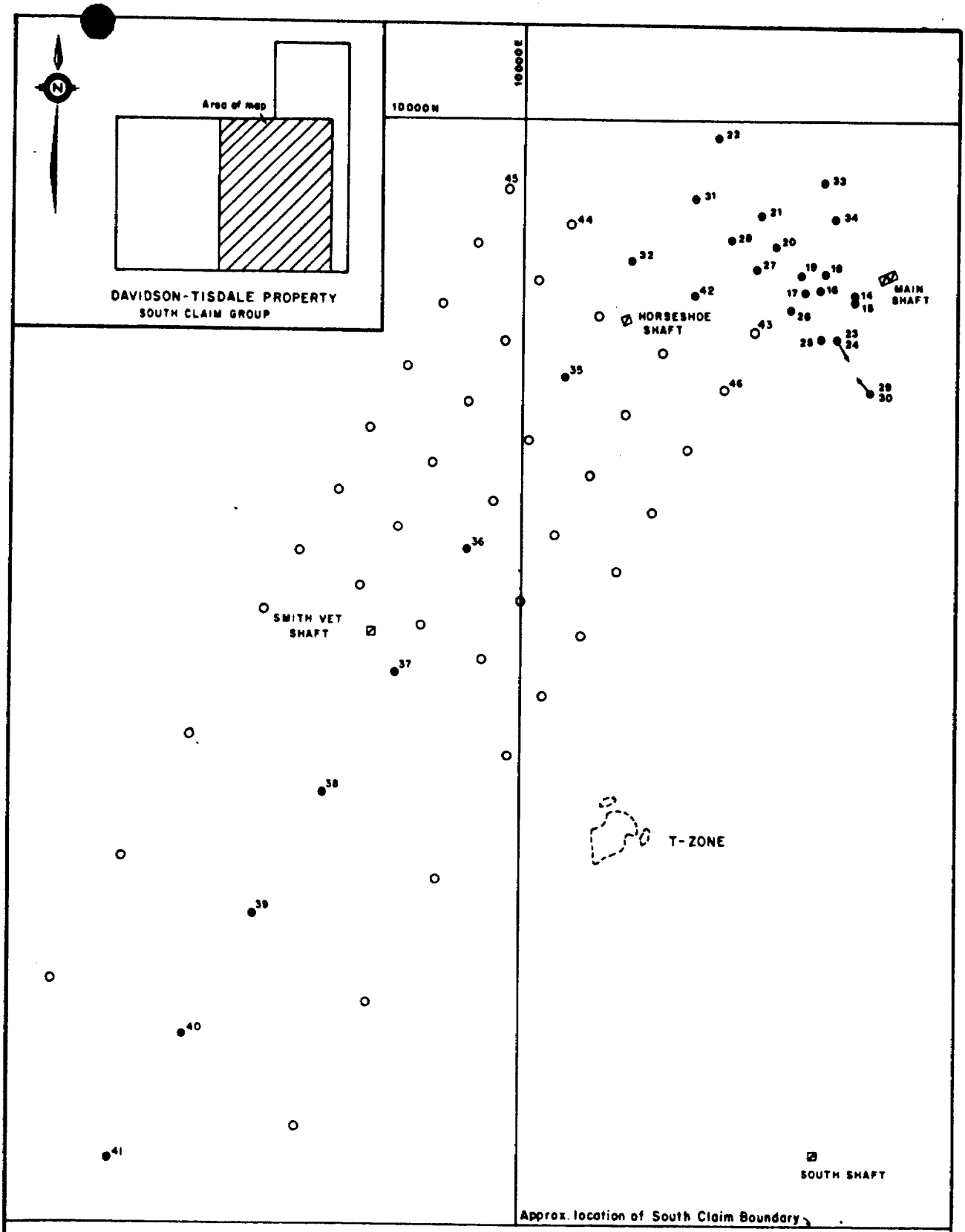
DAVIDSON TISDALE DRILL PROGRAM
1ST QUARTER 1984

Hole No.	Grid Location	Elev.	Az.	Dip.	Depth (m)	Purpose/Target Description	ASSAY DATA From (m)	To (m)	Length (m)	Assay(gms/tonne) UNCUT
DT-84-24	7+37E, 4+97S		135°	-45°	123.44	To test for the near surface expression of Davidson Tisdale's No. 1 zone. No Significant Intersection.				
DT-84-25	6+90E, 5+00S			-90°	139.29	Test for Qtz. vein systems. Quartz vein systems intersected from:				
						a) 12.19 m to 19.81 m	12.19	16.76	4.57	4.71
						b) 42.67 m to 45.72 m(v.g.)	42.67	43.43	0.76	3.57
						c) 95.00 m to 96.01 m(v.g.)	95.25	96.01	0.76	2.50
DT-84-26	6+20E, 4+30S			-90°	148.44	Test for Qtz. vein systems. Quartz vein systems intersected from:				
						a) 20.27 m to 22.17 m				tr.
						b) 104.11 m to 104.39 m (v.g.)	103.63	104.39	0.76	10.32
						c) 118.87 m to 124.63 m (veinlets)	118.87	121.93	3.05	4.36
DT-84-27	5+45E, 3+40S			-90°	218.54	Test for Qtz. vein systems. Quartz vein systems intersected from:				
						a) 116.59 m to 125.52 m(v.g.)	116.59	123.44	6.85	11.39
DT-84-28	4+85E, 2+75S			-90°	244.75	Test for Qtz. vein systems. Quartz vein systems intersected from:				
						a) Sporadic Qtz. vein & Qtz. breccia	139.45	141.73	2.28	134.05
						from 126.49 m to 146.81 m (v.g. from 139.45 m to 141.73 m)	139.45	142.49	3.05	101.23
DT-84-29	8+06E, 6+22S		157°	-55°	153.00	To test Davidson Tisdale Zone #1 for potential east dipping continuation. Quartz system from:				All assays not in yet.
						a) 35.87 m to 39.62 m(v.g. at 39.41 m)				

TABLE I (CONTd)

DAVIDSON TISDALE DRILL PROGRAM
1ST QUARTER 1984

Hole No.	Grid Location	Elev.	Az.	Dip.	Depth (m)	Purpose/Target Description	ASSAY DATA From (m)	To (m)	Length (m)	Assay(gms/tonne) UNCUT
DT-84-30	8+40E, 6+26S		157°	-75°	145.39	Same at DT-84-29. No significant intersections from preliminary examination.		No Significant Assays		
DT-84-31	4+00E, 1+80S			-90°	288.65	Test for Qtz. vein systems. Quartz vein systems intersections from: a) 160.30 m to 164.67 m(v.g. from 161.16 m to 164.34 m).	161.54	164.59	3.05	7.01
DT-84-32	2+50E, 3+20S			-90°	227.69	Test for Qtz. vein systems. Minor Quartz system from 203.60 m to 206.45 m		Assays Pending		
DT-84-33	7+00E, 1+40S			-90°	197.21	Test for Qtz. vein systems. No significant intersections		Assays Pending		
DT-84-34	7+20E, 2+20S			-90°	194.16	Test for Qtz. vein systems. Quartz systems intersected from: (a) 60.96 m to 66.14 m(v.g. at 63.70 m) (b) 102.11 m to 106.07 m(v.g. at 104.08 m)		Assays Pending		



●17 Completed Davidson-Tisdale Core Hole (14 to 34)

●35 Completed Getty Core Hole (Hole Numbers 35 and over)

○ Proposed Getty Core Hole

Note: Davidson Tisdale Core Hole locations & Shaft locations are only approx.
All core holes vertical except No 29 (-55°), No 30 (75°), & No 24 (-45°)

TISDALE PROJECT

1984 DRILL PROGRAM

DT-84-24 (123.44 m)

This core hole was designed to test the eastern, near surface expression of "Davidson Tisdale's No. 1 vein zone". No significant quartz vein systems were intersected.

DT-84-25 (139.29 m)

Three quartz vein systems were encountered in this hole from 12.19 m to 19.81 m, 42.67 m to 45.72 m (visible gold) and 95.00 m to 96.01 m (visible gold). Significant assay results are as follows:

Interval(m)	Width(m)	Au(gms/tonne)Uncut
12.19-16.76	4.57	4.71
42.67-43.43	0.76	3.57
95.25-96.01	0.76	2.50

DT-84-26 (148.44 m)

Quartz vein systems were encountered from 20.27 m to 22.17 m, 104.11 m to 104.39 m (visible gold) and 118.87 m to 124.63 m. Significant assay results are as follows:

Interval(m)	Width(m)	Au(gms/tonne)Uncut
103.63-104.39	0.76	10.32
118.87-121.93	3.05	4.36

DT-84-27 (218.54 m)

A large quartz vein system was encountered from 116.59 m to 125.52 m with (visible gold). Significant assay results from this section averaged as follows:

Interval(m)	Width(m)	Au(gms/tonne)Uncut
116.59-124.97	8.38	9.50

DT-84-28 (244.75 m)

A large quartz vein system was also encountered in this hole, from 126.49 m to 146.81 m with several sections of (visible gold) from 139.45 m to 141.73 m. Significant results from this section averaged as follows:

Interval(m)	Width(m)	Au(gms/tonne)Uncut
139.45-142.49	3.05	101.23 this has been verified by assaying of pulps at other analytical Labs.

DT-84-29 (153.00 m)

This hole was designed to test for the possible eastern dip continuation of "Davidson Tisdale's No. 1 vein zone". A quartz system was encountered from 35.87 m to 39.62 m (visible gold at 39.41 m). All of the assay results are not yet available for this section.

DT-84-30 (145.39 m)

This hole was collared at the same location as DT-84-29, designed to further test the same zones as core hole DT-84-29, but further to the east. No significant quartz veining was encountered. It appears that this zone is faulted off just east of hole 84-29.

DT-84-31 (288.65 m)

A quartz vein system was encountered from 160.30 m to 164.67 m with (visible gold) sections from 161.6 m to 164.34 m. The average assay results for this section is as follows:

Interval(m)	Width(m)	Au(gms/tonne)Uncut
161.54-164.59	3.05	7.01

DT-84-32 (227.69 m)

A sheared and faulted quartz vein system was encountered from 203.60 m to 206.45 m. Assay results are pending.

DT-84-33 (197.21 m)

No apparent, significant, quartz vein systems were encountered in this hole. Assay results are pending.

DT-84-34 (194.16 m)

Quartz vein systems were encountered from 60.96 m to 66.14 m (visible gold at 63.70 m) and 102.11 m to 106.07 m (visible gold at 104.08 m). Assay results are pending.

B) GETTY CORE HOLES

Following detailed evaluation of the Davidson Tisdale data it was interpreted that the quartz vein system on the property strikes in a SSW direction and dips to the west at 45°. On this basis a drill program was designed to test for the southern strike continuation of this permissive structure to the south boundary of the property.

Getty's drill plan consists of drilling a line of holes at 100 m spacing, SSW (210°) from Davidson Tisdale core hole DT-84-32. This line of holes will be targeted to hit the top of the zone at a vertical depth of 150 to 200 metres. This line of holes will continue to the south property boundary and should consist of 7 to 8 core holes. Pending drill results of these core holes the program will consist of filling in with 100 m and 50 m centred sections between the Main Shaft and T-Zone (see accompanying plan map). Due to the structural complexity of the area, the drill program will have to remain flexible with regard to the precise location of each hole and will be modified as data is generated during the drill program.

Since March 1, when Getty took over as operator of the joint venture, 4 core holes have been completed for 1,048 metres. Quartz vein systems encountered in each core hole virtually were anticipated suggesting that the permissive structure has continuity over a minimum 400 m strike length. Details are as follows:

GT-84-35A (77.0 m)

This core hole was lost at a depth of 77.0 m due to mechanical drilling problems. Minor quartz-carbonate veinlets were encountered. Assays are pending.

GT-84-35B (224.0 m)

This core hole is located 2 m east of GT-84-35A. A quartz vein system was encountered from 188.8 m to 191.7 m with (visible gold) at 185.68 m associated with a quartz carbonate stringer containing tourmaline. Assays are pending.

GT-84-36 (257.0 m)

Quartz vein systems were encountered from 115.2 to 118.3 m and from 195.0 to 199.5 m. This core hole is presently being sampled.

GT-84-37 (245.0 m)

A massive quartz vein was encountered from 85.48 m to 89.75 m and quartz breccia system from 202.05 m to 203.50 m. This core hole is presently being sampled.

GT-84-38 (245.0 m)

Quartz vein systems were encountered from 15.17 m to 17.8 m, 23.9 m to 27.3 m, 59.6 m to 61.4 m and 73.2 m to 82.1 m. This core hole is presently being logged and sampled.

Core hole GT-84-39 is currently in progress at a depth of 92 m with no "quartz vein systems" encountered.

TISDALE PROJECT
1984 DRILLING SUMMARY
1ST QUARTER

		Hole	Depth(m)
Drilling	A) Davidson Tisdale	DT -84-24	123.44
		-25	139.29
		-26	148.44
		-27	218.54
		-28	244.75
		-29	153.00
		-30	145.39
		-31	288.65
		-32	227.69
		-33	197.21
		-34	194.16
	B) Getty	GT -84-35A) same set-up	77.0
		35B)	224.0
		36	257.0
		37	245.0
		38	245.0

	# Of Holes	Total Metreage	
Current Quarter	15	3,128.56	
Previous Quarter	Nil	Nil	
Year to Date			
1984 Plan	60	15,000	Getty
	11	2,000	Davidson Tisdale
	71	17,000	

ANALYTICAL

There is currently a backlog of approximately 800 samples at the Pamour Analytical Labs comprised of both core and underground chip samples. This backlog is due to the submission of Davidson Tisdale samples as one large shipment and not as a result of lab inefficiency. It is anticipated that these samples will all have been analyzed within the next two week period. After that time sample turnaround should be in the order of one week to 10 days.

In order to speed up the backlog of samples the analytical lab was instructed to analyze all the core samples by Atomic Absorption with any sample values over 1 ppm (0.03 oz/Ton Au) to be fire assayed.

All of Davidson Tisdale's core assay plots are being cross-checked with the certified analytical results and converted to gms/tonne.

Selected pulp samples from holes DT-84-27 and DT-84-28 were checked and cross checked at Bourlamaque and Assayers analytical laboratories. The results indicate no significant variation between the three labs. The grade reported in this text for these intersections is the average of the results for each sample.

This cross-checking for hole DT-84-27 and DT-84-28 indicates that Pamour's sample preparation is good in that a well homogenized pulp was obtained and that the analytical methods by Pamour, Bourlamaque and Assayers are comparable. No rejects were available from these sections for rechecking.

UNDERGROUND PROGRAM

The underground mapping and sampling program was completed at the end of the 1st Quarter and all of the underground equipment has been demobilized.

During the 1st Quarter the 91.44 m (300') and 60.96 m (200') levels were mapped and sampled by Davidson Tisdale. The 30 m (100') level was completed during the month of March when Getty became the operator.

Two of the underground samplers will remain on the project for approximately one month in order to complete their plotting and sorting of sample rejects and pulps.

All of the underground geological and sample maps are imperial measure and will be converted to the metric system along with the analytical results.

PROPERTY STATUS

The retracement survey of the south claim block boundary is currently in progress and should be completed by the 1st week of April. The establishment of the Mine grid and surveying of the shaft and core hole collar locations, relative to the mine grid should commence during the 1st week of April.

This survey program is approximately 2 weeks behind schedule due to crew availability and warm rainy days in which the crews could not work. Also the crews only work 5 days a week when in the City of Timmins.

MISCELLANEOUS

A contract draftsman and core logger will be starting at the beginning of the 2nd Quarter.

Erection of the new on site core logging and storage facilities along with the establishment of a permanent gate was completed at the end of the 1st Quarter.

Core logging is behind by approximately 1 to 2 holes and core sampling by 3 holes. This is a result of the tearing down of the old core logging facility and the disruption by the builders in the new facility. Also one of the core samplers was involved in the underground sampling program in order that the program be completed by the end of March.

It is anticipated that the logging and sampling will be caught up by the end of the 1st week of April.

PLANS

All of the Davidson Tisdale core hole data is being converted to the metric system and geological logs drawn for all of their core holes. As soon as the metric grid is established on the property and hole locations surveyed this data will be plotted on base maps and sections. It is anticipated that this data will all be plotted in 6 weeks time.

Also all of the sample plan maps, geophysical maps and geological maps will be converted to the metric system.

As soon as the plotting has started, data will be sent to Toronto for review.

FINANCIAL REVIEW

PROGRAMMED EXPENDITURES FOR THE 1ST QUARTER, 1984

1ST QUARTER		YEAR TO DATE	
Actual	Planned	Actual	Planned
415.0	440.0	415.0	440.0

The program is under planned budget as the work carried out by Davidson Tisdale during January and February cost slightly less than estimated. The joint venture agreement calls for Getty to cover all 1984 costs from January 1, 1984.

Peter J. Joyce.

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Davidson Tisdale Mines Limited

Box 65,
Toronto-Dominion Centre,
Toronto, Ontario,
M5K 1E7
(416) 863-1000

February 20, 1984

MEMORANDUM TO SHAREHOLDERS OF DAVIDSON TISDALE MINES LIMITED

Further to our recent releases on our step-out drilling programme, we are now in receipt of assay results from Diamond Drill Hole #28:

D.D.H. # 28

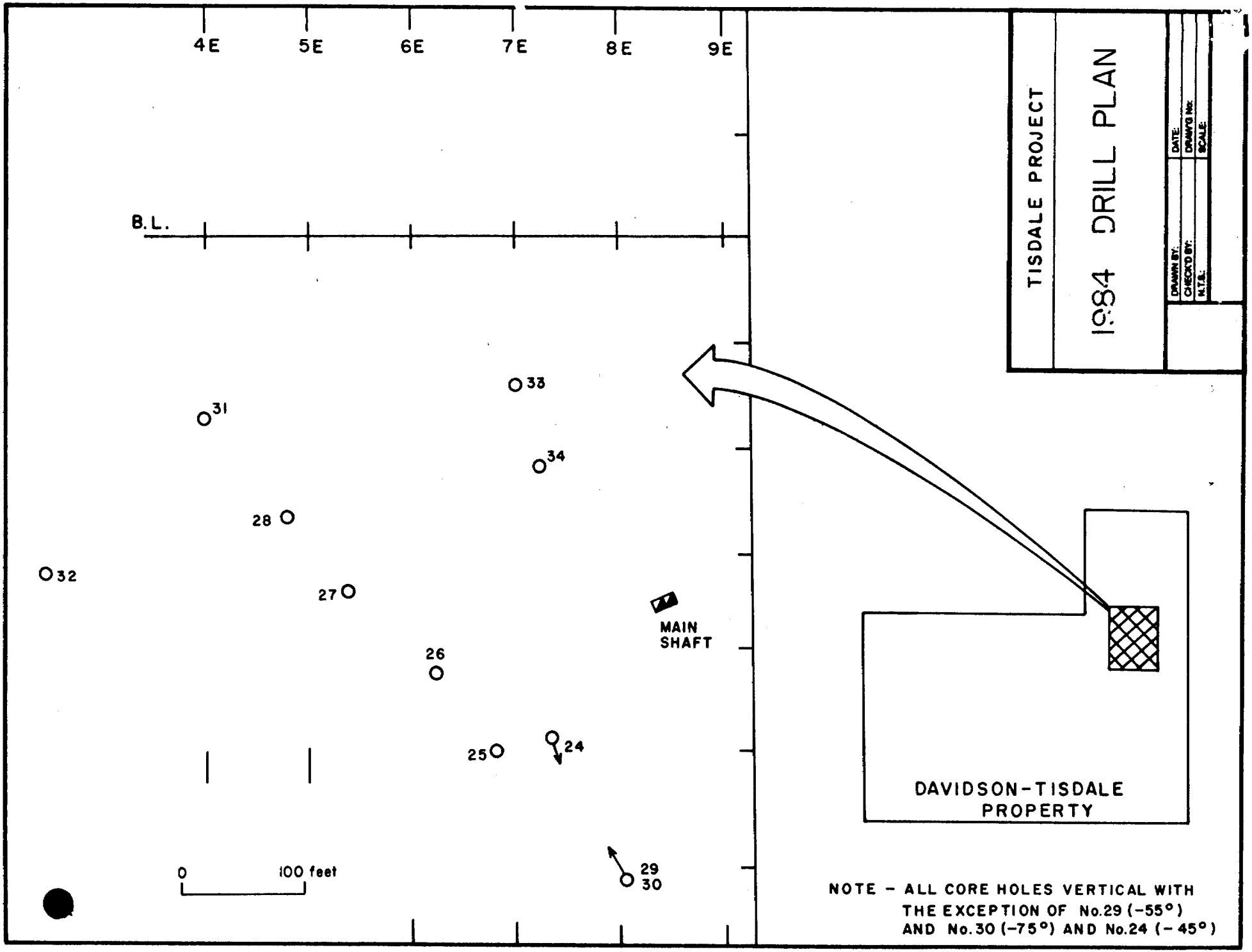
FROM	TO	INTERSECTION	AVERAGE OZ. AU/TON
415'	485'	70'	.449

The above results confirm the extension westward of the main ore zone.

Your management is most encouraged with these results and we look forward to continued success with our exploration programme.

Kenneth R. Kent
Vice President Operations

KRK:pmp


4E
5E
6E
7E
8E
9E
B.L.
31
33
34
28
32
27
26
25
24
29
30
MAIN SHAFT
0
100 feet
TISDALE PROJECT
1984 DRILL PLAN
DATE:
DRWG No:
SCALE:
DRAWN BY:
CHECKED BY:
N.T.S.:
DAVIDSON-TISDALE PROPERTY
NOTE - ALL CORE HOLES VERTICAL WITH THE EXCEPTION OF No.29 (-55°) AND No.30 (-75°) AND No.24 (-45°)

OM83-5-C-342

Davidson Tisdale Mines Limited

Box 65,
Toronto-Dominion Centre,
Toronto, Ontario,
M5K 1E7
(416) 863-1000

December 2, 1983

MEMORANDUM TO: DIRECTORS OF DAVIDSON TISDALE MINES LIMITED AND DIVIDSON TISDALE L.P.

SUBJECT: Winter Work Plan - Tisdale Property
Davidson Tisdale Mines Limited

During the period March 31 to November 30, 1983 the Company made significant progress in physical exploration and mapping of the interior mine works as well as surface showings on several isolated areas of the property.

Surface exploration consisted of overburden removal, rock washing and shallow "plugger" drilling in what is known as the Main Pit Area and lately in the "T" Zone, located several hundred feet south-west of the Main Shaft.

Mapping of the Main Shaft area has been completed and this indicates areas of economic mineralization surrounding the Main Shaft and a potentially interesting area disappearing under the swamp to the north-east of the main pit area. Further sampling and exploration will be required to evaluate any extension of this mineralization.

In the past two weeks, we have received assays from the "T" Zone area and our geologists are currently busy mapping this particular zone. The "T" Zone provided spectacular showings of free gold, however, until the assays are back and properly mapped we cannot undertake any bulk sampling in this area. It is expected the assaying and mapping of existing samples for this area will be completed by mid January.

We have completed the necessary sampling and mapping of the mineralized zones below 300 feet and for reasons of security and reduced operating costs, this lower level of the mine will be allowed to re-flood over the next several weeks. Sampling and mapping of the 300 foot, 200 foot and 100 foot levels will continue throughout the winter months and as the lower levels are completed, we will allow the water to rise in the mine to it's natural level.

Dr. Kirwin and his staff have provided some very exciting developments over the past eight weeks. This comes as a result of a series of vertical drill holes driven on a section line with an on-strike of 1,000 feet. This series of holes has outlined a section with two and perhaps three major mineralized zones having an average assay value of .25 ounces per ton. Our programme has now isolated a potential mineable ore body and if one were to extrapolate it's third dimension, based on the 600 foot drift which runs perpendicular to the section at the 500 foot level, one could extrapolate between 2 and 4 million tons within the mineralized zone.

This type of estimation is not suitable for proper zone evaluation however, and we must now concentrate our exploration activity on a second series of holes parallel to the previous section and approximately 100 feet to the west of it. Drill intersections encountered in this programme will then allow the geologists and management to sign affadvits of proven ore reserves which are essential for publication of any data for financial or other legitimate purposes.

Concurrent with the above step-out drilling programme, we will undertake, based upon assay results received and weather permitting, bulk sampling in the "T" Zone area. This work will be done for the purpose of examining the surface production possibilities which may exist in the "T" Zone area and which would allow the potential shipment of several hundred thousand tons of crushed ore to one of the local mills for further processing. If this bulk sampling procedure proves to be economical, it may be possible to expand it as good weather returns in April or May of next year.

A considerable amount of additional geological survey and mapping of the overall property is still required and this work will continue throughout the spring and summer of 1984. Of specific interest to us is the sedimentary formation located in September of 1983 and of which only a small portion has been exposed. Drilling of this zone will be a first priority after completion of the first step-out section within the main mine area mentioned above.

ESTIMATED COSTS - JANUARY 1 TO SEPTEMBER 1, 1984

Our estimated costs associated with the above mentioned programme are as follows:

1.	Step-out drilling, logging and mapping of the existing underground zones - 15,000 feet	$ 300,000
2.	Extended surface drilling of the "T" Zone, sedimentary deposit and main pit area - 10,000 feet	$ 200,000

3.	Continued underground drilling and sampling with existing mine locations, including cost of mine maintenance	$ 230,000
4.	Stripping, trenching, bulk sampling, mining and sampling, including cost of primary and secondary crushing where required and bulk sampling assaying	$ 450,000
5.	Contingency costs	$ 118,000
6.	Administrative costs	$ 45,000
	TOTAL ESTIMATED COSTS	$ 1,343,000 Cdn.
	Converted to U.S. Funds	$1,087,450

The Company geologists and management are currently developing a monthly job schedule and budget programme which will be submitted by January 1, 1984, with subsequent reports provided from the site on a monthly basis.

Kenneth R. Kent
Vice President

KRK:pmp

040

JOHN L. KIRWAN AND ASSOCIAT
EARTH RESOURCE ASSOCIATES (ERA)

PO.BOX 2150, TIMMINS, ONTARIO, P4N 7X8

February 19 1984

Davidson Tisdale Mines Limited,
TORONTO

Gentlemen-

The enclosed brief report on drilling summarizes all the drilling that has taken place in 1983-4 on the Davidson ground in Tisdale Township. Not all assays are in and one hole is still in progress, so the data is not yet complete.

On the question of tonnage, the first fence of holes defined a strip of ground that contains about 200,000 tons of ore at a grade of 0.2 ounces of gold per ton.

The second fence of holes is now complete and the assays are not yet in. However, visual estimates indicate that a further tonnage in the 250,000 ton range is indicated at an unspecified grade.

By connecting the ore visible on the 500 foot level of the old mine with the material exposed in the open pit and in the intervening mine workings, a further 500,000 tons of ore is geologically indicated east of the two fences of holes.

By connecting the ore material visible on the 500 foot level with the surface or drill indications west of the two fences of holes, a further 350,000 tons of ore is geologically indicated at an unspecified grade.

Thus, in drilling so far, and in mine and stripping operations:

200,000 tons of ore at a grade of 0.2 ounces to the ton,and 1,100,000 tons at an unspecified grade are geologically indicated.

The above is along a strike length of about 500 feet, a horizontal across strike width of about 500 feet, a depth of 700 feet, and is open at both ends.

Yours sincerely,

John Kirwan

John L. Kirwan

JOHN L. KIRWAN AND ASSOCIATES LIMITED
EARTH RESOURCE ASSOCIATES (ERA)
P.O.BOX 2150, TIMMINS, ONTARIO, P4N 7X8

February 18, 1984

Davidson Tisdale Mines Limited,
TORONTO

DRILLING SUMMARY, DAVIDSON MINE, TIMMINS

In the 1983-84 exploration and development program a total of 32 diamond drill holes have been put down on the property. These are numbered 1 through 31, and 101. Hole number 32 is now in progress.

Holes 1, 2 and 3 were drilled to test for wall rock mineralization in the vicinity of the old mine workings. No intersections of interest were encountered.

Hole 4 was drilled to test for a geophysical target in the vicinity of the old open pit. This was encountered and produced one intersection of 5 feet assaying .074 ounces of gold to the ton.

Holes 5, 6 and 7 were put down to test for the thickness of rock above the old mine workings and were not assayed in detail.

Holes 8, 9 and 10 were drilled under a surface exposure of gold mineralization in the old open pit, and

Holes 11, 12 and 13 were drilled for the same purpose about 25 feet to the east of these. Several intersections of ore-grade gold values were cut in the holes numbered 8 through 14, as previously reported.

It was not until the drilling of holes 14 onwards that a geological understanding of the distribution of the gold mineralization was realized. It was in these holes that more than one ore zone was identified, the thickness determined, and the gold content assayed. A generally northeasterly strike or trend of the bodies was also demonstrated, with a northwesterly dip. Holes 21, 27 and 28 combined to allow a solution to a "three point problem" from which the true strike of the bodies (approximately 020°) and a correct dip (approximately 45° west northwestward) calculated. This was done during the week just passed. Now that this information is in hand it will be possible to conduct future drilling so as to yield maximum tonnage figures with a minimum of drilling. The current drill hole, with a step out of over 200 feet, is the first of this series.

Drill holes 14 through 22 were drilled along an irregular line oriented north northwesterly through the west end of the old open pit, with holes 23, 24 and 29 and 30 drilled along the same line to the south southeast. In all, an across strike

length of about 500 feet was defined in this series of holes, with Hole 22 and Hole 30 each being a "blank", being beyond the zone. In each case the zone is believed to be cut off by a fault, the termination being not an original feature of the mineralization. Hole 29 was of particular value because it indicated that the northwest-dipping orebody "rolls over" in the vicinity of the open pit and then dips southeast, a structure that, if it persists westward, has implications for tonnage of a larger-than-expected size.

Unfortunately, assays are not yet in for all of the rock from all of the holes in this first "fence", there being nothing yet available for Hole 29. However, if Holes 14, 15, and 18 (which are eastward from this fence) and Hole 29 (for which assays are not yet available) are eliminated from calculationa, a preliminary tonnage estimate can be made for the slice of ground sampled by these holes. This slice is about 500 feet long and wedge-shaped, being about 30 feet wide in the southeast, and about 100 feet wide in the northwest. It is also limited to about 400 feet depth at the south end, and about 700 feet at the north. Within this block of ground a total of 200,000 tons of rock with a grade of .2 ounces of gold to the ton has been estimated. A larger tonnage at a lower grade would be possible.

The second fence has defined a similar wedge of ground, slightly larger than that referred to above. This wedge is made up of Holes 29, 25, 26, 27, 28 and 31, being about 550 feet long and measuring about 20 feet wide in the southeast and 150 feet wide in the northwest, but is still open to the northwest. Intersections in these holes are:

Hole 29- (common to both fences) an intersection of about 25 feet showing quartz veining, pyrite mineralization, and one area with visible gold. No assays available.

Hole 25- Between 40 and 55 feet, 15 feet averaging .132 oz/t.
Between 140 and 150, 10 feet of .031 oz/t.
Between 190 and 195 feet, 5 feet of .119 (section incomplete: assays not yet in for remaining parts).

Hole 26- Assays not yet available, the following are now in:
100-105 feet: .029 oz./t
340-342½ ft.: .301 oz./t
400-410 feet: .103 oz./t
sections incomplete.

Hole 27- Sporadic values at 150, 255 and 275 feet, about .030.
Between 382½ and 407½ feet, 25 feet of .307 oz./t.

Hole 28- No assays available, intersections of mineralization at:
20- 60 feet and 232-238 feet;
260-270 feet and 662 feet.
Between 320 and 380 feet, a 60 foot intersection of veining and pyrite mineralization with 14 areas showing visible gold.

Hole 31- The zone was encountered between 520 and 543 feet, immediately north of the drift on the 500 foot level of the old mine, thus indicating that it continues below this level.

TONNAGE: As already mentioned, the first row of holes, or fence, indicated about 200,000 tone of material grading .2 ounces of gold to the ton down to a depth of 700 feet, with potential for additional tonnage due to a rollover of the zone at its southern extremity.
The lack of assays and therefore of measured thicknesses of material in parts of the second fence prevents an accurate tonnage/grade determination, but every hole in that fence "hit", and the area represented is larger than in the first fence, so it seems likely that a similar tonnage might be anticipated--that is to say, something in the 200,000 or quarter million class.

Eastward from the two fences described above there is evidence for the continuation of the ore zone(s) in that direction from:

i. at the northern end, the ore-grade material is exposed in the 500 foot level of the mine for a distance of over 150 feet from Hole 21, and
ii. at the southern end, the ore-grade material is exposed at surface in the open pit area for a distance of over 250 feet from drill hole 16, and
iii. in between there is ore-grade material exposed in underground workings and in drill holes 14 and 15

There is therefore convincing evidence that ore-grade material extends eastward from the two fences already described under an area that is larger than that represented by the two fences. Moreover, there is, in this eastern area, the two areas of highest grade mineralization thus far encountered in the area: in the open pit a zone of material averaging about a half ounce, in the 500 foot level an area containing mineralization in the 10 to 40 ounce class, and in the 100 foot level, a zone containing assays up to 10 ounces. Taking the character of the mineralization as determined in the first fence of drill holes, and the tonnage determined in these holes and extrapolated eastward, a considerably larger tonnage of ore-grade material is indicated than was calculated from the first fence.

Taking the estimated tonnages from the first and second fences of drill holes, and the projected tonnage eastward that is geologically indicated, a geologically indicated tonnage in the order of 1,000,000 tons seems to be reasonable at this stage of operations. This material is open at both ends. Drilling will proceed in a southwestwardly direction so as to extend the gold-bearing zone in that direction in an attempt to link it up with the T-Zone, some 1700 feet in that direction.

DRILL HOLE 101

This drill hole was put down in the summer of 1983 in an area northwest from the old mine workings to test for some feldspar porphyry that had been reported in old drilling done in 1922. It failed to verify the presence of this rock.

The hole encountered two zones of sedimentary or pyroclastic rocks which assays showed to contain gold values over mineable widths in the .25 and .35 class.

Check assays of the rejects, and more recently of resplit core have demonstrated that the gold values as determined by the assay lab (Pamour Analytical Services, of Timmins) were false. They originated from a confusion of samples in the lab.

Respectfully submitted,

John L. Kirwan

DIAMOND DRILL LOG

DDH #24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION Davidson Tisdale Property
GRID REFERENCE 7+37E, 4+97S
AZIMUTH 135° **DIP ANGLE** -45°
DIP TESTS 0' = 45°; 100' = 45°, 200' = 45°, 300' = 45°
CORE BQ
DISPOSITION OF CORE D-T Coreshack **DRILLED BY** Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-6'	drill casing			
6'-45'	- fine grained very dark green mafic volcanic			
	- undeterminable contacts			
	- calcite stringers abundant from 0° to 90°			
	- no shearing			
	- chlorite alteration			
	- trace to 1% fine grained disseminated subhedral pyrite			
	AT: 6'-10'	5947	tr	
	10'-15'	5948	tr	
	15'-20'	5949	tr	
	20'-25'	5950	020	
	25'-30	5951	tr	
	30'-35	5952	030	
	34'10"-35'3" - quartz/calcite vein			
	- contacts; 20° top, 20° bottom			
	- green chlorite			
	- non-mineralized			
	AT: 35'-40'	5953	022	
	40'-45'	5954	tr	
45'-166'	- fine grained to medium grained light to medium green intermediate volcanic			
	- possible tuffaceous unit			
	- moderately carbonated matrix			
	- actinolite/talc/chlorite alteration			

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- siderite weathering abundant			
	- minor amount of calcite stringers			
	- increase in dolomite? at increasing depths			
	- unit commonly silicified			
	- possible shearing at 60°			
	- trace fine grained pyrite oriented parallel to possible shear planes			
	- fine grained to medium grained disseminated and coalesced subhedral to euhedral pyrite			
	AT: 45'-50'	5955	tr	
	50'-55'	5956	030	
	55'-60'	5957	tr	
	61'10"-61'11" - quartz stringer			
	- contacts; 70° top, 70° bottom			
	- non-mineralized			
	AT: 60'-65'	5958	tr	
	65'5"-65'6" - quartz stringer			
	- contacts; 60° top, 60° bottom			
	- trace to 2% euhedral pyrite associated with upper contact			
	AT: 65'-70'	5959	tr	
	70'9"-70'10" - quartz veinlet			
	- undeterminable contacts			
	- non-mineralized			
	AT: 70'-75'	5960	tr	
	75'-80'	5961	tr	

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	80'-85'	5962	tr	
	85'-90'	5963	tr	
	92'3"-94'8"-quartz/calcit frag-			
	mental?			
	-possible fault zone			
	-dolomite present			
	-dark green chlorite			
	present			
	-trace to 1% fine gra-			
	ined pyrite			
	AT: 90'-95'	5964	tr	
	95'-100'	5965	tr	
	100-108'-abundant siderite			
	weathering			
	-abundant ground at			
	104'-105'			
	-possible fault zone			
	-abundant chlorite			
	stringer			
	-shearing commonly			
	50°			
	-trace "stretched" py-			
	rite associated with			
	shear planes			
	AT: 100'-105'	5966	tr	
	105'-110'	5967	tr	
	113'10"-114'4"-quartz vein			
	-contacts, 35° top, 35° bottom			
	-non-mineralized			
	AT: 110'-115'	5968	tr	
	115'-120'	5969	tr	
	124'-124'5"-quartz system			

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-irregular contacts			
	-non-mineralized			
	AT: 120'-125'	5970	tr	
	127'9"-127'10"-quartz veinlet			
	-contacts; 60° top, 60° bottom			
	-trace to 1% pyrite associated with contacts			
	128'3"-128'7"-quartz/calcite vein			
	-contacts; 60° top, 60° bottom			
	-chalcopyrite associated with upper contact			
	AT: 125'-130'	5971	tr	
	130'-135'	5972	tr	
	135'-140'	5973	tr	
	140'-145'	5974	tr	
	148'5"-148'7"-quartz veinlet			
	-contacts; 30° top, 30° bottom			
	-non-mineralized			
	AT: 145'-150'	5975	tr	
	150'-155'	5976	tr	
	156'7"-157'11"-quartz vein			
	-contacts; irregular			
	-non-mineralized			
	AT: 155'-160'	5977	tr	
	160'-165	5978	tr	
166'-216'	-fine grained green intermediate to mafic volcanic			
	-highly carbonated matrix			
	-chlorite alteration			
	-possible pillow selvages			

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	at 166' to 175'			
	- no shearing			
	- trace fine grained to medium grained disseminated subhedral pyrite			
	AT : 165'-170'	5979	tr	
	170'-175'	5990	tr	
	175'-180'	5981	tr	
	180'-185'	5982	tr	
	185'-190'	5983	tr	
	190'-195'	5984	031	
	195'-200'	5985	tr	
	200'-205'	5986	tr	
	205'-210'	5987	tr	
	210'-215'	5988	tr	
216-278	- possible gabbroic intrusion			
	- contacts; top 320°, undeterminable bottom			
	- fresh appearance			
	- minor amounts of calcite stringers			
	- no shearing			
	- trace pyrite mineralization			
	AT : 215'-220'	5989	tr	
	220'4"-220'6" - quartz/calcite veinlet			
	- contacts; 40° top, 40° bottom			
	- non-mineralized			
	AT 220'-225'	5990	tr	
	225'-230'	5991	tr	

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	230'-235'	5992	tr	
	235'-240'	5993	tr	
	240'-245'	5994	tr	
	245'-250'	5995	tr	
	250'-255'	5996	tr	
	255'-260'	5997	tr	
	260'-265'	5998	tr	
	265'-270'	5999	tr	
	270'-275'	6000	tr	
	275'-280'	6501	tr	
281'-321'	medium grained dark green mafic volcanic			
	- carbonated matrix			
	- calcite grains common			
	- no shearing			
	- calcite stringer decrease in intensity at greater depths			
	- minor amount of Fe_2O_3 stringers at various angles associated with calcite stringers			
	- trace pyrite mineralization			
	283'10"-285' quartz/calcite breccia			
	- contacts; undeterminable top, ±90° bottom			
	- abundant chlorite alteration			
	- volcanic patches			

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-non-mineralized		
	AT: 280'-285'	6502	tr
	285'-290'	6503	tr
	292'3"-292'6"-quartz/calcite vein		
	-undeterminable contacts		
	-non-mineralized		
	293'-295'-abundant ground		
	-possible fault zone		
	AT: 290-295'	6504	tr
	295'-300'	6505	tr
	300'-305'	6506	tr
	305'-310'	6507	tr
	311'½"-311'2"-quartz/calcite veinlet		
	-contacts 60° top, 60° bottom		
	-non-mineralized		
	AT: 310'-315'	6508	tr
	318'10"-318'11"-fault at 45°		
	-fracture infilled with Fe_2O_3 and calcite		
	318'10½"-320'11"-quartz/calcite/epidote vein		
	-contacts 15° top, 15° bottom		
	-non-mineralized		
	320'-320'3"-fault at 45°		
	-infilled with Fe_2O_3 and calcite		
	AT: 315'-320'	6509	tr
321'-405'	fine grained to medium grained grey green int-		

DIAMOND DRILL LOG

#24

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EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	ermediate volcanic			
	- possible tuffaceous unit			
	- highly carbonated matrix			
	- no shearing			
	- trace medium grained disseminated subhedral pyrite			
	AT: 320'-325'	6510	tr	
	325'-330'	6511	tr	
	330'-335'	6512	002	
	335'-340'	6513	tr	0.30% J kita
	340'3"-340'5"-quartz/calcite vein			
	-contacts; 60° top, 60° bottom			
	-chlorite patches			
	- non-mineralized			
	AT: 340'-345'	6514	010	
	345'-346'-abundant chlorite/calcite alteration			
	-trace disseminated subhedral pyrite			
	AT: 345'-350'	6515	tr	
	350'-355'	6516	tr	
	355'-360'	6517	tr	
	363'-363'3"-possible fault zone			
	-fragmental/breccia			
	AT: 360'-365'	6518	tr	
	365'-370'	6519	tr	
	373'9"-374'-quartz vein			
	-contacts; 30° top, 30° bottom			

DIAMOND DRILL LOG

#24

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EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	374'-405' - abundant calcite grains within wall rock			
	AT: 370'-375'	6520	tr	
	375'-380'	6521	tr	
	383'1"-383'5" - quartz/calcite vein			
	-contacts; 28° top, 25° bottom			
	-non-mineralized			
	AT: 380'-385'	6522	tr	
	385'4"-385'7" - quartz veinlet			
	-contacts; 70° top, 70° bottom			
	-quartz veinlet displaced ½" by left hand fault			
	-fault associated with talc/chlorite alteration			
	-non-mineralized			
	386'6"-387'1" - quartz stringers			
	-contacts; 15° top, 15° bottom			
	-non-mineralized			
	387'4"-387'6" - quartz stringer			
	-contacts; 35° top, 35° bottom			
	-non-mineralized			
	AT: 385'-390'	6523	.016	
	390'1½"-390'6½" - quartz veinlet			
	-contacts; 20° top, 20° bottom			
	-non-mineralized			
	AT: 390'-395'	6524	tr	
	397'9"-397'9½" - quartz/calcite stringer			
	-contacts; 70° top, 70° bottom			

DIAMOND DRILL LOG

#24

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	399'11"-400'1"- quartz veinlet			
	-contacts; 55° top, 50° bottom			
	-non-mineralized			
	AT: 395'-400'	6525	tr	
	403'5"-403'6"- quartz/calcite			
	stringer			
	-contacts; 70° top, 70° bottom			
	-trace pyrite associated			
	with upper contact			
	AT: 400'-405'	6526	tr	
	HOLE ENDS AT 405'			
	January 11, 1984			
	Ken Lapierre			

DIAMOND DRILL LOG

DDH #25

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION Davidson Tisdale Property
GRID REFERENCE 6+90E, 5+00S
AZIMUTH **DIP ANGLE** -90°
DIP TESTS 0'=90°, 100'=86°, 200'=83°,
CORE BQ 300'=79°
DISPOSITION OF CORE D-T Coreshack **DRILLED BY** Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-6'	drill casing			
6'-27'6"	- fine grained to medium grained green intermediate to mafic volcanic			
	- moderately carbonated matrix			
	- abundant calcite stringers oriented randomly			
	- minor amount of silicification			
	- chlorite alteration			
	- no shearing			
	- trace subhedral disseminated pyrite			
	AT: 6'-10'	6538	tr	
	10'-15'	6539	tr	
	15'-20'	6540	tr	
	20'-25'	6541	tr	
	25'-30'	6542	tr	
27'6"-406'	- fine grained to medium grained grey green silicified intermediate volcanic			
	- possible tuffaceous zone			
	- undeterminable contacts			
	- slightly carbonated matrix increasing in carbonation at greater depths			
	- sericite/talc/actinolite/chlorite alteration			
	- minor amounts of calcite			

DIAMOND DRILL LOG

DDH #25

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	stringers			
	- increase in pale brown (dolomite? ankerite?) alteration at greater depths			
	- actinolite associated with shear planes			
	- shearing with gradational change at increasing depths from 20° to 70° then back to 20°			
	- trace to 1% coarse grained to very coarse grained disseminated subhedral pyrite			
	33'-36'10" - abundant siderite weathering - increase in calcite stringers - shearing at 20° - trace coarse grained pyrite AT: 30'-35'	6543	tr	
	37'6"-39'2" - abundant siderite weathering - shearing at 20° - increase in calcite stringer AT: 35'-40'	6544	tr	
	41'11"-42'1" - quartz stringer - contacts; 345° (irregular)			

DIAMOND DRILL LOG

DDH #25

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	43'-45'-abundant siderite weathering -increase in calcite stringers oriented similar to shear planes			
	AI: 40'-45'	6545	.040	
	47'-48'3"-quartz breccia -undeterminable contacts -volcanic patches associated with talc/siderite alteration -minor amount of calcite stringer -tourmaline present -mineralization associated at 47'-47'6" -trace anhedral pyrite associated with tourmaline -trace pyrite associated with wall rock/quartz contact.	M.Q.B.U.S(20%) 40'-61'1"	-	
	AI: 45'-47'6"	6546	.270	
	48'3"-50'6"-abundant siderite weathering -moderate amount of ground -calcite stringers present			

DIAMOND DRILL LOG

DDH # 25

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT : 47'6" - 50'	6547	.115	
	50'6" - 52'10" - quartz vein			
	- undeterminable contacts			
	- siderite alteration			
	associated with volca-			
	nic patches			
	- trace pyrite			
	AT : 50' - 52'6"	6548	.219	
	52'10" - 56'0" - abundant sid-			
	erite alteration			
	- shearing at 30°			
	- trace pyrite			
	AT : 52'6" - 55'	6549	.142	
	55' - 60	6550	tr	
	61' - 61'1" - quartz stringers			
	- undeterminable con-			
	tacts			
	- non-mineralized			
	AT : 60' - 62'6"	6551	.018	
	62'6" - 63'6" - 2-4% very			
	coarse grained sub-			
	hedral disseminated			
	pyrite associated			
	with volcanic rock			
	- shearing at 70°			
	63'10" - 64'8" - quartz vein			
	- contacts, ±10° top, unde-			
	terminable bottom			
	- abundant siderite			
	weathering associated			
	with both contacts			
	- very coarse grain			

DIAMOND DRILL LOG

DDH #26

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	pyrite associated with both contacts - pyrite with tourmaline along periphry			
	AT: 62'6" - 65'	6552	.068	
	67'8" - 69'3" - abundant siderite weathering - shearing at 50° - trace coarse grained pyrite			
	AT: 66' - 70'	6553	.010	
	70'5" - 70'6" - quartz veinlet - contacts, 70° top, 70° bottom - siderite alteration associated with upper contact - non-mineralized			
	71'8" - 71'10" - abundant siderite alteration - trace very coarse grained pyrite mineralization			
	AT: 70' - 75'	6554	.025	
	75' - 80'	6555	tr	
	79'8" - 79'9" - quartz stringer - contacts, 45° top, 45° bottom - non-mineralized			
	83'8½" - 83'8¾" - quartz stringer - contacts, 90° top, 90° bottom			

DIAMOND DRILL LOG

DDH #25

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 80'-85'	6556	tr	
	85'7"-86'- quartz vein			
	-contacts; 50° top, 50° bottom			
	-siderite weathering associated with both contacts			
	-trace coalesced subhedral pyrite associated with lower contact			
	86'4"-86'7"- quartz vein			
	-undeterminable contacts			
	-minor volcanic patches			
	-non-mineralized			
	AT: 85'-87'6"	6557	004	
	90'5"-90'7"- quartz patches			
	-undeterminable contacts			
	- non-mineralized			
	AT: 87'6"-90'	6558	tr	
	94'2"-94'4"- siderite weathering			
	- shearing at 30°			
	AT: 90'-95'	6559	tr	
	95'10½"-96'- quartz veinlet			
	-contacts; 55° top, 55° bottom			
	-tourmaline present			
	- non-mineralized			
	96'6½"-96'7"- quartz stringer			
	-contacts; 70° top, 70° bottom			

DIAMOND DRILL LOG

DDH #25

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EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-tourmaline present			
	- non-mineralized			
	AT: 95'-100'	6560	034	
	106'6"-107'3"- silicified wall			
	rock oriented simi-			
	lar to shear planes			
	at 25°			
	-trace coarse grained			
	disseminated subhe-			
	dral to anhedral			
	pyrite			
	AT: 100'-105'	6561	tr	
	105'-110'	6562	tr	
	110'8"-111'1"- siderite altered			
	wall rock			
	AT: 110'-115'	6563	013	
	117'-117'4"- siderite altered			
	wall rock			
	-calcite stringers			
	AT: 115'-120'	6564	tr	
	122'-122'5"- siderite altered			
	wall rock			
	-minor quartz str-			
	ingers associated			
	with 20° upper contact			
	122'6"-122'10"- siderite altered			
	wall rock			
	AT: 120'-125'	6565	tr	
	125'-130'	6566	tr	
	130'-135'	6567	.001	
	135'-138'- characteristic			
	calcite stringers			

DIAMOND DRILL LOG

DDH #25

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	with 25° trends			
	-non-mineralized			
	137'2"-137'9" - 2-3% medium			
	grained to coarse			
	grained subhedral to			
	anhedral dissemina-			
	ted pyrite associa-			
	ted with black chl-			
	orite stringers			
	AT: 135' - 137'6"	6568	tr	
	141'2"-141'2¼"- quartz stringer			
	-contacts: 70° top, 70° bottom			
	-abundant siderite al-			
	teration associated			
	with both contacts			
	-VISIBLE GOLD, 2 specs			
	associated with quartz			
	stringer			
	AT: 137'6" - 140'	6569	tr	
	140' - 142'6" V.G.	6570	.104	
	142'6" - 145'	6571	tr	
	145' - 150'	6572	020	
	150' - 155'	6573	tr	
	155'-175'- wall rock chara-			
	cterized by medium			
	grained calcite grains			
	AT: 155' - 160'	6574	tr	
	160' - 165'	6575	tr	tr
	169'4" - 169'4½"- quartz str-			
	inger			
	-contacts: 50° top, 50° bottom			
	- trace coarse grained			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	pyrite associated with		
	lower contact		
	AT: 165'-170'	6576	tr
	170'-175'	6577	tr
	175'-180'	6578	030
	180'-190'-highly silicified		
	wall rock		
	-2 to 3% "stretched"		
	pyrite		
	-increase in carbon-		
	ate (dolomite?) alter-		
	ation		
	AT: 180'-185'	6579	.001
	185'-190'	6580	.093
	191'-198'-fault zone		
	-undeterminable cont-		
	acts		
	-soft gouge at 196'-		
	196'4"		
	-wall rock character-		
	ized by subrounded		
	to rounded "grounded"		
	1 to 2% pyrite patches		
	-abundant chlorite		
	stringers		
	AT: 190'-195'	6581	026
	195'-200'	6582	tr
	200'-200'10"-smokey grey		
	quartz		
	-contacts; 10° top, 10° bot-		
	tom		
	-trace subhedral py-		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	rite within quartz			
	AT: 200'-205'	6583	tr	
	205'-210'	6584	tr	
	210'-215'	6585	tr	
	215'-285'-wall rock characterized by medium grained calcite -abundant pale brown (patchy) alteration (dolomite?)			
	AT: 215'-220'	6586	tr	
	220'-225'	6587	tr	
	229'-229'3"-siderite weather associated with wall rock			
	AT: 225'-230'	6588	tr	
	230'-235'	6589	tr	
	236'10"-237'-quartz stringer -contacts; 20° top, 20° bottom -trace subhedral disseminated pyrite within quartz			
	AT: 235-240'	6590	tr	
	240'-245'	6591	tr	
	245'-250'	6592	tr	
	250'-255'	6593	tr	
	255'-260'	6594	tr	
	260'-265'	6595	tr	
	265'-270'	6596	tr	
	270'-275'	6597	tr	
	275'-280'	6598	010	
	280'-285'	6599	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	285'-290'	66600	tr	
	291'11"-292'2" - quartz vein			
	- contacts; 70° top, 70° bottom			
	- siderite alteration			
	- non-mineralized			
	294'-294'2" - quartz vein			
	- contacts; 60° top, 60° bottom			
	- non-mineralized			
	AT: 290'-295'	66601	022	
	297'5"-297'7" - quartz vein			
	- contacts; ±65° top, ±65° bottom			
	- non-mineralized			
	AT: 295'-300'	66602	tr	
	301'9"-301'11" - quartz stringer			
	- contacts; 35° top, 35° bottom			
	- non-mineralized			
	304'3"-305' - quartz veinlet			
	- contacts; 5° top, undeterminable bottom			
	AT: 300'-305'	66603	tr	
	305'-306'6" - highly silicified wall rock			
	AT: 305'-310'	66604	tr	
	312'2"-312'4" - quartz stringer			
	- contacts; 40° top, 40° bottom			
	- non-mineralized			
	314'1"-314'8" - 1-3% very coarse grained disseminated subhedral pyrite within wall rock			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	314'8"-314'10"-quartz veinlet			
	-contacts; 75° top, 75° bottom			
	-black chlorite alteration			
	-VISIBLE GOLD associated with lower contact			
	314'11"-314'11½"-quartz stringer			
	-contacts; 70° top, 70° bottom			
	-moderate amount of pyrite mineralization associated with lower contact			
	-trace pyrite associated with upper contact			
	AT: 310'-312'6"	66005	tr	
	312'6"-315 V.G.	66006	.073	
	315'3"-316'3"-possible fragmental?			
	-pale white slightly carbonated subrounded to subangular fragments.			
	AT: 315'-320'	66007	tr	
	320-330-possible fault zone			
	-increase in calcite stringer			
	-increase in carbonate			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	within matrix			
	- 1% disseminated pyrite			
	- 2% pyrite associated			
	along planes			
	AT: 320' - 325'	6608		
	325' - 330'	6609	044	
	329'11" - 330'½" - quartz/calcite			
	veinlet			
	- contacts; 65° top, 65° bot-			
	tom			
	- ½" vein displacement			
	caused by right			
	hand fault at 0°			
	330'1" - 330'10" - quartz vein			
	- undeterminable con-			
	tacts			
	- non-mineralized			
	AT: 330' - 335'	6610	tr	
	335' - 340'	6611	tr	
	340' - 345'	6612	tr	
	345' - 350'	6613	020	J.K.+a
	350' - 355'	6614	020	
	355' - 360'	6615	tr	
	360' - 365'	6616	tr	
	365' - 370'	6617	tr	
	373' - 373'3" - quartz stringer			
	- contacts; 25° top, 25° bot-			
	tom			
	- non-mineralized			
	AT: 370' - 375'	6618	tr	
	375' - 380'	6619	.003	
	380' - 385'	6620	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	385' - 390'	6621	tr	
	390' - 395'	6622	tr	
	395' - 400'	6623	DDS	
	400' - 405'	6624	tr	
		continued		→

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
406'-422.5'	fragmental			
	-subrounded to angular 1/8" to 1/2" wide green clasts floating in a lighter green highly carbonated matrix			
	-contacts; undeterminable top, 30° bottom			
	-lower contact associated with chlorite/calcite alteration			
	-highly carbonated clasts			
	-green chlorite alteration			
	-minor amounts of calcite stringers			
	-no shearing			
	-trace to 1% medium grained subhedral pyrite			
	AT: 405'-410'	6625	tr	
	410'-415	6626	tr	
	415'-420	6627	tr	
	420'-425'	6628	tr	
422.5'-457'	gabbro			
	-slightly carbonated			
	-trace mineralization			
	-fresh appearance			
	AT 425-430'	6629	tr	
	430'-435'	6630	tr	
	435'-440'	6631	tr	
	440'-445'	6632	tr	

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	445'-450'	6633	tr	
	450'-455'	6634	tr	
	455'-457'	6635	tr	
	HOLE ENDS AT 457'			
	January 16, 1984			
	Ken Lapierre			

DIAMOND DRILL LOG

DDH #26

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LOCATION Davidson Tisdale Mines
GRID REFERENCE 6+20E, 4+30S
AZIMUTH **DIP ANGLE** -90°
DIP TESTS 0'=90°, 100'=85°, 200'=85°, 300'=83°
CORE BQ
DISPOSITION OF CORE D-T Coreshack
DRILLED BY Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-8'	casing			
8'-174'	- medium grained green to grey green mafic volcanic			
	- fine grain to medium grain subrounded ankerite grains present			
	- chlorite alteration			
	- slightly carbonated matrix			
	- shearing common at greater depths			
	- minor amounts of ankerite and calcite stringers randomly oriented			
	- shearing common at greater depths			
	- trace disseminated subhedral pyrite			
	AT : 8'-10'	66636	tr	
	10'-15'	66637	005	
	15'-20'	66638	tr	
	20'-25'	66639	tr	
	25'-30'	66640	004	
	30'-35'	66641	tr	
	35'-40'	66642	tr	
	40'-45'	66643	tr	
	45'-50'	66644	tr	
	14'7"-14'9"- quartz vein			
	- contacts 80° top, 80° bottom			
	- dolomite/ankerite/siderite patches			
	- non-mineralized			

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT : 50'-55'	6645	tr	
	55'-60'	6646	tr.	
	60'-65'	6647	tr	
	66'5"-71'5" - quartz breccia			
	- contacts, 360° top, undeterminable bottom			
	- volcanic patches (25%)			
	- quartz (74%)			
	- minor amounts of chlorite stringers, tourmaline stringers, calcite stringers (1%)			
	- siderite weathering present			
	- talc alteration uncommon			
	- trace subhedral disseminated pyrite associated with volcanic patches.			
	AT : 65'-70'	6648	tr	
	71'9"-71'9½" - quartz veinlet			
	- contacts, 70° top, 70° bottom			
	- non-mineralized			
	72'-72'1" - quartz veinlet			
	- contacts, 70° top, 70° bottom			
	- veinlet with ½" displacement by left hand fault at 5°			
	- left hand fault			

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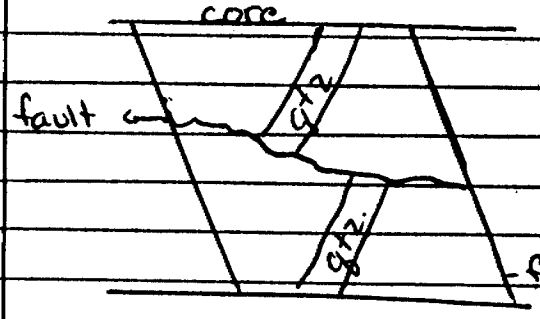
FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	displaced by other fault at 60°			
	- non-mineralized			
				
	72'8"-72'9" - quartz veinlet			
	- contact; 70° top, 70° bottom			
	- minor carbonate alteration			
	- non-mineralized			
	AT : 70'-75'	66649	tr	
	75'-80'	66650	tr	
	82'-141'6" - wall rock characterized by shearing from 25° to 40°			
	- kinking (crenulation folds) present with possible downward movement of south side			
	- trace to 2% disseminated subhedral "stretched" pyrite associated within shear planes and very coarse grained subhedral to euhedral pyrite crystals			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	AT : 80'-85'	6651	tr
	85'-90'	6652	.007
	90'-95'	6653	tr
	96'-97'-silicified sheared wall rock		
	101'8"-101'8½"-quartz stringer -contacts, 85° top, 85° bottom -non-mineralized		
	AT : 95'-100'	6654	tr
	100'-105'	6655	.029
	105'-110'	6656	tr
	110'-115'	6657	tr
	115'-120'	6658	tr
	120'-125'	6659	tr
	126'-126'2"-quartz vein -undeterminable contacts -non-mineralized		
	128'4"-128'6"-quartz stringer -contact, 70° top, 70° bottom -non-mineralized		
	129'2"-129'5"-quartz vein -undeterminable top, 90° bottom		
	AT : 125'-130'	6660	.020
	130'-135'	6661	tr
	138'-141'7"-abundant siderite weathering -trace to 1% very coarse grained subhedral to euhedral pyrite		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	AT : 135'-140'	66662	tr
	140'-145'	66663	tr
	145'-150'	66664	tr
	150'-155'	66665	tr
	155'-160'	66666	tr
	160'-165'	66667	tr
	165'-170'	66668	tr
174'-221'	- fine grained grey green to dark green mafic volcanic		
	- chlorite alteration		
	- moderate amount of small calcite stringers		
	- slightly carbonated matrix		
	- abundant chlorite alteration		
	- no shearing		
	- trace to 2% disseminated subhedral pyrite from 174' to 192'		
	AT : 170'-175'	66669	tr
	175'-180'	66670	tr
	180'-185'	66671	tr
	185'-190'	66672	tr
	190'-195'	66673	tr
	196'11"-197'1" - quartz vein		
	- contacts; 190° top, 190° bottom		
	- non-mineralized		
	AT : 195'-200'	66674	tr
	200'-205'	66675	tr
	205'-210'	66676	tr

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	210'-215'	6677	tr
	215'-220'	6678	tr
	220'-225'	6679	007
221'-463'	- fine grained to medium grained grey green silicified intermediate volcanic		
	- possible tuffaceous zone		
	- undeterminable contacts		
	- green chlorite alteration		
	- abundant amount of ankerite? (pale brown) alteration		
	- increase in sericite alteration at increasing depths		
	- no shearing		
	- trace to 1% euhedral to subhedral disseminated fine grained to medium grained pyrite		
	AT: 225'-230'	6680	tr
	230'-235'	6681	tr
	237'-237'3" - quartz stringer		
	- contact, 15° top, 15° bottom		
	- trace pyrite associated with lower contact		
	AT 235'-240'	6682	.008
	240'-245'	6683	.010
	245'-250'	6684	tr

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	252'9"-252'11"-quartz stringer			
	-contacts; 45° top, 45° bottom			
	-non-mineralized			
	253'1"-253'11"-quartz stringer			
	-contact; 35° top, 35° bottom			
	-non-mineralized			
	AT: 250'-255'	6685	tr	
	255'11"-256'3"-quartz veinlet			
	-contacts; 20° top, 20° bottom			
	-non-mineralized			
	258'4"-258'7"-quartz veinlet			
	-undetermineble contacts			
	-non-mineralized			
	AT: 255'-260'	6686	.005	.006
	260'-265'	6687	tr	
	265'-270'	6688	tr	
	270'-275'	6689	tr	
	276'-278'6"-possible fault			
	-minor shearing			
	-moderate amount of ground			
	AT: 275'-280'	6690	tr	
	280'-285'	6691	tr	
	285'-290'	6692	tr	
	290'-295'	6693	tr	
	296'11"-297'1"-quartz vein			
	-contact; 70° top, 70° bottom			
	-siderite alteration			
	associated with			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	both contacts			
	-trace subhedral pyrite			
	associated with upper			
	contacts			
	AT 295'-300'	6694	tr	
	300'-305'	6695	tr	
	305'-310'	6696	DID	
	314'-317' - possible fault			
	-abundant ground			
	317'6"-318' - possible fault			
	-abundant ground			
	322'6"-322'7" - quartz vein			
	-undeterminable contact			
	-1 to 2% subhedral			
	pyrite associated			
	with lower contact			
	AT: 310'-315'	6697	tr	
	315'-320'	6698	tr	
	320'-325	6699	tr	
	327'-328' - abundant ground			
	AT: 325'-330'	6700	tr	
	330'-335'	6702	tr	
	335'-340'	6703	tr	
	341'7"-342'6" - quartz vein			
	-undeterminable contacts			
	-minor amounts of			
	volcanic patches			
	-abundant fine grained			
	to medium grained			
	and coalesced pyrite			
	associated with upper			
	contact and volcanic			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	patches			
	- trace pyrite associated			
	with quartz			
	- VISIBLE GOLD			
	stringer ¼" long asso-			
	ciated within qua-			
	rtz			
	AT : 340' - 342'6" VG.	6704	.301	
	342'6" - 345'	6705	tr	
	345' - 350'	6706	tr	
	350' - 355'	6707	.021	
	356'3" - 357' - quartz system			
	- abundant calcite			
	alteration			
	- undeteminable contacts			
	- trace coarse grain			
	pyrite			
	AT : 355' - 360'	6708	tr	
	360' - 365'	6709	tr	
	365' - 373' - abundant			
	ground			
	- probable major			
	fault zone			
	- minor amount of			
	shearing at 50°			
	- abundant talc			
	alteration			
	- trace to 2% coal-			
	esced subhedral			
	disseminated			
	pyrite mineralization			
	- minor areas up			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	to 30% coalesced pyrite, ie, at 372'.		
	AT: 365'-370'	6710	tr
	374'-374'6" - calcite vein		
	- contacts; 75° top, 75° bottom		
	- non-mineralized		
	AT: 370'-375	6711	.01
	379'-379'5" - quartz stringer		
	- undeterminable contact		
	- non-mineralized		
	AT: 375'-380'	6712	tr.
	381'2"-381'4" - quartz vein		
	- contact; 60° top, 60° bottom		
	- chlorite patches		
	- non-mineralized		
	381'6"-382'1" - quartz stringer		
	- contact; 35° top, 35° bottom		
	- non-mineralized		
	382'-407' - wall rock characterized by very coarse grained trace to 2% disseminated subhedral to euhedral and coalesced pyrite cubes		
	383'5" - shearing at 50°		
	- abundant sericite		
	- minor actinolite		
	384'2"-384'2½" - quartz veinlet		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contact; 50° top, 50° bottom			
	-trace coarse grained			
	pyrite associated with			
	lower contact			
	384'5"-384'11"-quartz vein			
	-contact; 50° top, 50° bottom			
	-abundant pyrite "blebs"			
	associated with lower			
	contacts			
	-minor amounts of			
	chalcopyrite associated			
	with lower contact			
	AT: 380'-385'	6713	0.09	
	385'3"-385'4"-quartz veinlet			
	-contact; 50° top, 50° bottom			
	-abundant pyrite and			
	chalcopyrite associ-			
	ated with upper			
	contact			
	388'6"-388'9"-soft gouge ✓			
	-fault related			
	-contact; 40° top, 40° bottom			
	-non-mineralized			
	AT: 385'-390'	6714	tr.	
	390'-390'3"-quartz vein			
	-contact; 45° top, 45° bottom			
	-pyrite and chalcopyrite			
	associated with			
	both contacts			
	-pyrite and chalco-			
	pyrite associated			
	with alteration within			

DIAMOND DRILL LOG

DDH #26

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	quartz.		
	AT: 390'-395'	6715	.065
	396'8"-396'10"-quartz veinlet		
	-contact; 60° top, 60° bottom		
	-upper contact "coated" completely with coalesced pyrite		
	AT: 395'-400'	6716	.190
	408'10½"-408'11"-quartz/calcite stringer		
	-contacts; 78° top, 70° bottom		
	-trace pyrite and chalcopyrite associated with quartz		
	AT: 400'-405'	6717	.016
	405'-410'	6718	tr
	410'-415'	6719	tr
	415'-420'	6720	tr
	420'-425'	6721	tr
	425'-463'-increase in calcite stringer ¼" to ¾" thick that are randomly oriented		
	-highly carbonated matrix		
	AT: 425'-430'	6722	tr
	430'-435'	6723	tr
	435'-440'	6724	tr
	440'-445'	6725	tr
	445'-450'	6726	tr
	450'-455'	6727	tr

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	455'-460'	6728	tr	
463'-487'	- gabbroic intrusion			
	- undeterminable contacts			
	- minor amounts of green chlorite			
	- minor amounts of calcite stringers that are randomly oriented			
	- slightly carbonated matrix			
	- fresh appearance			
	- trace pyrite mineralization			
	AT : 460'-465'	6729	tr	
	465'-470'	6730	tr	
	470'-475'	6731	tr	
	475'-480'	6732	tr	
	480'-485'	6733	tr	
	485'-487'	6734	tr	
	HOLE ENDS AT 487'			
	January 24, 1984			
	Ken Lapeire			

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LOCATION Davidson Tisdale Mines
GRID REFERENCE 5+45E, 3+40S.
AZIMUTH **DIP ANGLE** -90°
DIP TESTS 0'=90°, 100'=90°, 200'=88°, 300'=88°
CORE BQ 400'=86.5°, 500'=83°, 600'=82.5°, 700'=81°
DISPOSITION OF CORE D-T Coreshack **DRILLED BY** Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-18'	drill casing			
18'-95'	fine grain to medium grained grey green to green intermediate to mafic volcanic			
	- undeterminable contacts			
	- calcite/ankerite grains			
	- siderite weathering common at upper depths			
	- calcite stringers from ¼" to ½" thick randomly oriented			
	- ground common			
	- no shearing			
	- trace pyrite mineralization			
	AT : 18'-20'	6735	tr	
	20'-25'	6736	tr	
	25'-30'	6737	tr	
	30'-35'	6738	tr	
	35'-40'	6739	tr	
41'7"-41'8"	- quartz/calcite veinlet			
	- contact; 85° top, 86° bottom			
	- non-mineralized			
	AT : 40'-45'	6740	tr	
45'8"-46'	- quartz/calcite vein			
	- contacts; 20° top, 20° bottom			
	- chlorite patches			
	- non-mineralized			
47'9"-47'10"	- quartz/calcite vein			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 90° top, 90° bottom			
	-non-mineralized			
	AT: 45'-50'	6741	tr	
	50'-55'	6742	tr	
	55'-60'	6743	tr	
	60'-65'	6744	tr	
	68'11"-69'3"-quartz vein			
	-contacts; 65° top, 65° bottom			
	-abundant chlorite alteration			
	-2% medium to coarse grained disseminated pyrite associated with chlorite			
	AT: 65'-70'	6745	tr	
	70'3"-71'1"-quartz vein			
	-contacts; 60° top, 60° bottom			
	-chlorite alteration			
	-minor amounts of calcite stringers within quartz			
	-trace to 3% medium grained to coarse grained pyrite associated with both contacts			
	71'6"-72'10"-quartz vein			
	contacts; 20° top, 20° bottom			
	-siderite alteration			
	-tourmaline stringers			
	-non-mineralized			
	73'5"-73'6"-quartz veinlet			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- contacts; 85° top, 85° bottom			
	- siderite alteration associated with upper contact			
	- non-mineralized			
	AT: 70'-75'	6746	019	
	75'-80'	6747	tr	
	80'-85'	6748	tr	
	85'-90'	6749	tr	
	90'-95'	6750	tr	
95'-194'	- fine grained green to dark green mafic to intermediate volcanic			
	- undeterminable contacts			
	- chlorite alteration			
	- highly carbonated matrix			
	- calcite stringers at 70° to 80°			
	- no shearing			
	- trace subhedral pyrite			
	AT: 95'-100'	6751	tr	
	100'-105'	6752	tr	
	105'-110'	6753	tr	
	110'-115'	6754	tr	
	115'-120'	6755	tr	
	120'-125'	6756	tr	
	125'-130'	6757	tr	
	130'6"-130'7"-quartz veinlet			
	- contacts; 90° top, 90° bottom			
	- siderite associated with contacts			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	133'5" - 133' 6½ -quartz vein			
	contacts; 70° top, 70° bottom			
	AT : 130' - 135'	6758	tr	
	135' - 140'	6759	tr	
	142' - 143' 8" - quartz vein sy-			
	stem			
	- undeterminable contacts			
	- abundant siderite			
	alteration			
	- chlorite alteration			
	- trace pyrite			
	AT : 140' - 145'	6760	tr	
	145' - 150'	6761	tr	
	152' 4" - 152' 6½ - quartz veinlet			
	- contacts; 60° top, 60° bottom			
	- siderite alteration ass-			
	ociated with wall rock			
	- non-mineralized			
	152' 11½" - 153' 1½" - quartz veinlet			
	- contacts; 70° top, 70° bottom			
	- non-mineralized			
	AT : 150' - 156'	6762	.038	
	159' - 159' 1" - quartz veinlet			
	- undeterminable contacts			
	- abundant siderite wea-			
	thering associated			
	with both contacts.			
	AT : 155' - 160'	6763	tr	
	160' 3" - 160' 3¼" - quartz stringer			
	- contacts; 85° top, 85° bottom			
	- non-mineralized			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	160'4½" - 160'4¾" - quartz stringer - contacts; 80° top, 80° bottom - non-mineralized			
	160'6" - 160'6½" - quartz stringer - contact; 90° top, 90° bottom - chlorite alteration - calcite associated with upper contact - non-mineralized			
	163'1" - 163'2½" - quartz vein - contacts; 80° top, 80° bottom - siderite weathering associated with both contacts - non-mineralized			
	163'6" - 163'10" - quartz vein - contacts; 50° top, 60° bottom - chlorite alteration associated within quartz - trace pyrite mineralization associated with both contacts			
	AT: 160' - 165'	67164	tr	
	166'2" - 166'3½" - quartz vein - contacts; 80° top, 80° bottom - non-mineralized			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT: 165'-170'	6765	tr	
	170'-175'	6766	004	
	175'-180'	6767	tr	
	180'-185'	6768	tr	
	185'-190'	6769	tr	
	190' 7"-194'-calcite vein system terminated by major(?) fault trending at 20° -talc alteration associated with fault plane			
	AT: 190'-195'	6770	tr	
194'-465'	fine grained to medium grained grey green intermediate volcanic -contact; top contact associated with fault at 20° undeterminable bottom -possible tuffaceous unit -slightly carbonated matrix -minor chlorite alteration at greater depths -calcite/ankerite grains present changing to ankerite? (pale brown) alteration at greater depths -calcite stringers at upper depths -shearing present at grea-			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	ter depths			
	- sericite associated with			
	shear planes			
	- trace to 1% subhedral			
	disseminated pyrite			
	- trace pyrite associated			
	along shear planes			
	AT: 195'-200'	6771	tr	
	200'-205'	6772	tr	
	208'-210'8" - possible fault			
	trending at 10°			
	- fracture infilled with			
	talc/ankerite altera-			
	tion			
	- trace to 1% euhedral			
	pyrite			
	AT: 205'-210'	6773	tr	
	213'3"-213'3½" - quartz/calcite			
	veinlet			
	- contacts; ±80° top, ±80° b-			
	ottom			
	- siderite alteration			
	- non-mineralized			
	AT: 210'-215'	6774	.007	
	215'-220'	6775	tr	
	220'5"-220'9" - quartz vein			
	- contacts; 80° top, 80° bottom			
	- non-mineralized			
	AT: 220'-225'	6776	tr	
	225'-230'	6777	tr	
	234'9"-234'11" - quartz vein			
	- contacts; 60° top, 60° bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- non-mineralized			
	AT: 230'-235'	6778	tr	
	235'-240'	6779	tr	
	240'-245'	6780	tr	
	245'-250'	6781	tr	
	250'-255'	6782	tr	
	256'7"-256'8" - quartz veinlet			
	- contacts, 80° top, 80° bottom			
	- non-mineralized		tr	
	AT: 255'-260'	6783	~~tr~~	
	260'-294' - wall rock characterized by shearing at 20°			
	- slight increase in pyrite content			
	- increase in chlorite alteration			
	AT: 260'-265'	6784	tr	
	268'8"-270' - calcite/quartz vein system			
	- undeterminable contacts			
	- chlorite alteration			
	- non-mineralized			
	AT: 265'-270'	6785	tr	
	271'-272' - calcite/quartz vein system			
	- contacts: 20° top, 20° bottom			
	- non-mineralized			
	AT: 270'-275'	6786	tr	
	275'-280'	6787	? 027	Tr/Tr
	280'-285'	6788	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	285' - 290'	6789	tr
	290' - 295'	6790	tr
	295' - 300'	6791	tr
	300' - 305'	6792	tr
	305' - 310'	6793	tr
	313'4" - 313'4½" - quartz stringer		
	- contacts; 80° top, 80° bottom		
	- non-mineralized		
	AT : 310' - 315'	6794	tr
	315' - 320'	6795	tr
	321' - 328' - wall rock characterized by shearing at 40°		
	- talc alteration associated with shear planes		
	- increase in sericite alteration		
	AT : 320' - 325'	6796	tr
	327' - 328' - numerous quartz stringers		
	- non-mineralized		
	AT : 325' - 330'	6797	tr
	333' - 343' - wall rock characterized by silicification		
	- trace pyrite		
	- trace chalcopyrite		
	AT : 330' - 335'	6798	tr
	335' - 340'	6799	tr
	341'8" - 342' - quartz vein		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-undeterminable contacts			
	-non-mineralized			
	AT: 340'-345'	6800	tr	
	345'-350'	6801	tr	
	350'-382'6"- wall rock characterized by shearing at 45°			
	AT: 350'-355'	6802	tr	
	359'-359'½"- quartz veinlet			
	-contacts; 70° top, 70° bottom			
	-trace pyrite associated with quartz			
	-trace chalcopyrite associated with quartz			
	AT: 355'-360'	6803	tr	
	360'-365'	6804	tr	
	366'9"-367'1"- quartz vein			
	-undeterminable top, 180° bottom			
	-chlorite alteration			
	-talc alteration associated with upper contact			
	-non-mineralized			
	367'2½"-367'3½"- quartz veinlet			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 365'-370'	6805	015	
	370'-375	6806	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	375'-380'	6807	005	Tr/Tr
	382'1"-382'2"-quartz stringer			
	-contacts; 60°top, 60°bottom			
	-non-mineralized			
	AT: 380'-382'6"	6808	tr	
	382'6"-411'10"-quartz breccia			
	-contacts; 30°top, 325° bottom			
	-volcanic fragments (30%)			
	-quartz (70%)			
	-moderate amount of tourmaline stringers			
	-volcanic fragments moderately carbonated with minor shearing at 40°			
	-green serpentine/talc patches present			
	-types of mineralization:			
	① trace subhedral disseminated pyrite cubes within quartz,			
	② trace subhedral medium grained coalesced pyrite associated with tourmaline stringers			
	③ 1-5% coarse grained disseminated and coalesced pyrite associated with wall rock/quartz contacts and			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	entirely within volcanic fragments,			
	④ trace subhedral disseminated chalcopyrite associated within volcanic fragments			
	⑤ VISIBLE GOLD associated with: a) volcanic fragments/quartz contacts, b) within quartz, c) within volcanic fragments, d) within talc/serpentine alteration e) within pyrite			
	VISIBLE GOLD locations;			
	1. 382'8"			
	2. 384' 1¼"			
	3. 384'2"			
	4. 388'5"			
	5. 392'5"			
	6. 395'8"-395'8½"			
	7. 395'9"-398'10"			
	8. 396'			
	9. 396'2"			
	10. 397'11¼"			
	11. 398'¼"			
	12. 398'9"			
	AT: 382'6"-385 V.G.	6810	.167	
	385' - 387'6"	6811	.031	
	387'6"-390' V.G.	6812	.154	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	390'-392'6" V.G.	6813	.039	
	392'6"-395'	6814	.272	
	395'-397'6" V.G.	6815	1.326	
	397'6"-400' V.G.	6816	.497	
	400'-402'6"	6817	.435	
	402'6"-405'	6818	.128	
	405'-407'6"	6819	.020	
	407'6"-410'	6820	.042	
	410'-415'	6821	003	
	415'-420'	6822	tr	
	420'-425'	6823	.002	
	427'-437'-wall rock characterized by shearing at 30°			
	- sericite flakes associated with shear planes			
	- trace to 1% very coarse grained subhedral disseminated pyrite			
	420'-422'3"-quartz veined			
	- contacts, 5° top, 5° bottom			
	- tourmaline associated with quartz			
	- non-mineralized			
	422'8"-423'-quartz veined			
	- contacts 30° top, 30° bottom			
	- non-mineralized			
	AT: 425'-430'	6824	tr	
	431'8"-431'11"-quartz vein			
	- undeterminable contacts			
	- non-mineralized			
	433'2"-433'6"-quartz vein			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 75° top, 75° bottom			
	-non-mineralized			
	AT: 430'-435'	6825	tr	
	437'5"-437'8" - quartz vein			
	-contacts; 60° top, 60° bottom			
	-abundant pyrite associated with lower contact, with quartz, and with chlorite alteration			
	AT: 435'-440'	6826	.019	
	440'-445'	6827	tr	
	445'-450'	6828	tr	
	451'10½"-452' - quartz veinlet			
	-contacts; 50° top, 50° bottom			
	-calcite alteration associated with lower contact			
	AT: 450'-455'	6829	tr	
	455'-460'	6830	tr	
	460'-465'	6831	tr	
465'-520'10"	fine grained massive green intermediate volcanic			
	-undeterminable contacts			
	-chlorite alteration			
	-highly carbonated matrix			
	-calcite stringers ⅛" to ¼" at 45°-90°			
	-trace disseminated pyrite			
	AT: 465'-470'	6832	tr	
	470'-475'	6833	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	477'-490' - abundant ground			
	- wall rock characterized			
	by shearing at 30°			
	- highly carbonated			
	- talc alteration			
	- trace to 1% "stretched" pyrite associated with shear planes			
	AT: 475'-480'	6834	007	
	480'-485'	6835	tr	
	485'-490'	6836	010	
	491'5"-491'7" - quartz stringer			
	- contacts, 30° top, 30° bottom			
	- non-mineralized			
	491'9"-491'11" - quartz veinlet			
	- contacts, 30° top, 30° bottom			
	- non-mineralized			
	AT: 490'-495'	6837	.130	.124
	495'-500'	6838	tr	
	500'-505'	6839	tr	
	505'-510'	6840	tr	
	510'-515'	6841	tr	
	515'-520'	6842	tr	
520'10"-637'	very fine grained mafic			
	volcanic (dark green)			
-	undeterminable contact			
-	highly carbonated matrix			
-	wall rock characterized			
	by abundant calcite			
	stringers from 1/8" to 1/4"			
	that are randomly orient-			
	ed			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- Fe_2O_3 alteration associated with calcite stringers			
	- no shearing			
	- trace disseminated and coalesced medium grained subhedral pyrite			
	AT: 520'-525'	6843	tr	
	525'-530'	6844	tr	
	530'-535'	6845	tr	
	535'-540'	6846	tr	
	540'-545'	6847	tr	
	545'-550'	6848	tr	
	550'-555'	6849	tr	
	555'-560'	6850	tr	
	560'-565'	6851	tr	
	565'-570'	6852	Tr	Tr
	570'-575'	6853	tr	
	575'-580'	6854	tr	
	580'-585'	6855	tr	
	585'-590'	6856	tr	
	590'-595'	6857	005	
	595'-600'	6858	~~tr~~ 003	
	600'-605'	6859	tr	
	605'-610'	6860	tr	
	610'-615'	6861	tr	
	615'-620'	6862	tr	
	620'-625'	6863	tr	
	625'-630'	6864	tr	
	630'-635'	6865	tr	
637'-697'	medium grained light grey green intermediate volcanic			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-undeterminable contacts			
	-slightly carbonated matrix			
	-ankerite ?(pale brown) alter-			
	ation			
	-minor calcite stringers			
	-partially silicified			
	-sericite present			
	-trace pyrite mineralization			
	-trace chalcopyrite			
	AT: 635'-640'	68666	tr	
	640'-645'	68667	tr	
	645'-650'	68668	.008	.009
	654'6"-655'5"- quartz vein			
	system			
	-contacts; 65° top, 65° bottom			
	-trace pyrite mineraliz-			
	ation			
	AT: 650'-655'	6869	tr	
	655'-660'	6870	T-	T-
	6602'3"-6602'10"- quartz vein			
	-contacts; 60° top, undet.-			
	erminable bottom			
	-calcite stringers with-			
	in quartz			
	-non-mineralized			
	AT: 6660'-6665'	6871	tr	
	6665'6"-6665'9"- quartz vein			
	-contacts; 68° top, 60° bottom			
	-non-mineralized			
	6666'4"-6667'- quartz vein sys-			
	tem			
	-undeterminable contacts			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 665'-670'	6872	tr	
	673'5"-673'6"- fault at 65°			
	-soft gouge present			
	673'6"-673'8"-quartz vein			
	-contacts; 65° top, 65° bottom			
	-trace pyrite associated with lower contact			
	AT: 670'-675'	6873	tr	
	676'8"-676'9"-quartz veinlet			
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	677'5"-677'8"-quartz vein			
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	678'1"-678'3"-quartz vein			
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	679'10"-679'11"-quartz veinlet			
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	AT: 675'-680'	6874	tr	
	680'1"-680'4"- fragmental			
	-highly carbonated			
	-light green fragments enclosed in a dark green matrix			
	-quartz patches common			

DIAMOND DRILL LOG

DDH #27

JOHN KIRWAN & ASSOCIATES LTD.

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LOCATION
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AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-chlorite alteration			
	- non-mineralized			
	683'5"-683'8"- fault at 20°			
	- talc alteration within fault plane			
	- 2% disseminated fine to medium grained disseminated pyrite associated on hanging wall side of the fault			
	683'9"-683'9½"-quartz stringer			
	-contacts; 75°top, 75°bottom			
	- non-mineralized			
	683'11"-684'1"-quartz stringer			
	-contacts; 35°top, 35°bottom			
	- trace pyrite associated with both contacts			
	- trace pyrite associated within quartz			
	684'4½"-684'5½"- quartz stringer			
	-contacts; 80°top, 80°bottom			
	- non-mineralized			
	AT: 680'-685'	68875	tr	
	685'6½"-685'8"-quartz vein			
	-contacts; 70°top, 70°bottom			

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	686'1"-686'2" quartz stringer			
	-contact; 60° top, 60° bottom			
	-chlorite alteration associated with both contacts			
	-non-mineralized			
	686'6"-686'6½"-quartz stringer			
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	687'4¾"-687'5½"-quartz stringer			
	-contact; 60° top, 60° bottom			
	-non-mineralized			
	689'3"-689'5"-possible trink banding (crenulation folds)			
	AT: 685'-690'	6876	tr	
	690'-695'	6877	tr	
696'-717'	fine grained very dark green mafic volcanic			
	-abundant chlorite			
	-highly carbonated			
	-moderate amount of calcite grains			
	-no shearing			
	-trace subhedral disseminated pyrite			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT: 695'-700'	6878	tr	
	700'-705'	6879	tr	
	709'5"-706'-epidote/calcite/			
	quartz vein			
	-contact; 65° top, 65° bot-			
	tom			
	- non-mineralized			
	AT: 705'-710'	6880	tr	
	710'-715'	6881	tr	
	715'-717'	6882	tr	
	HOLE ENDS AT 717'			
	January 30, 1984			
	Ken Lapeine			

DIAMOND DRILL LOG

DDH# 28

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LOCATION D-T Property
GRID REFERENCE 4+85E, 17+55S.
AZIMUTH DIP ANGLE -90°
DIP TESTS 0'=90°, 100'=90°, 200'=90°, 300'=88°, 400'=85°, 500'=81°, 600'=77°, 700'=72°, 800'=79°
CORE BQ
DISPOSITION OF CORE D-T Coreshack
DRILLED BY Len Hill (Manderstrom)

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-6'	- drill casing			
6'-245'	- medium grained medium green to dark green mafic volcanic			
	- undeterminable contacts			
	- moderately carbonated matrix			
	- calcite grains common			
	- minor amount of calcite stringers 1/8" to 1/2" thick oriented 60° to 80°			
	- occurrence of shearing at greater depths			
	- trace disseminated subhedral fine to medium grained pyrite			
	AT: 6'-10'	6883	tr	
	10'-15'	6884	002	
	15'-20'	6885	tr	
	20'-25'	6886	004	
	25'-26'1" - quartz vein			
	- contacts; 70° top, 70° bottom			
	- siderite stringers			
	- non-mineralized			
	27'-29'6" - 5-10% medium grained subhedral disseminated and coalesced pyrite with wall rock			
	AT: 25'-30'	6887	008	
	30'-35'	6888	tr	
	38'10"-40' - quartz vein			

DIAMOND DRILL LOG

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DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-undeterminable top, 70° bottom			
	- non-mineralized			
	AT: 35'-40'	6889	tr	
	40'-45'	6890	tr	
	45'-50'	6891	tr	
	54'6"-55'2" - 1-3% subhedral fine to medium grained pyrite			
	AT: 50'-55'	6892	tr	
	59'5"-59'7½" - quartz/calcite vein			
	-contacts; 30° top, 30° bottom			
	- non-mineralized			
	AT: 55'-60'	6893	tr	
	60'-65'	6894	tr	
	65'-70'	6895	tr	
	70'-76' - increase in carbonate grains			
	AT: 70'-75'	6896	tr	
	75'-80'	6897	tr	
	80'-85'	6898	tr	
	88'-92' - possible fault zone - undeterminable contacts			
	AT: 85'-90'	6899	tr	
	90'-95'	6900	tr	
	99'-104' - possible fault zone - undeterminable contacts			
	AT: 95'-100'	6901	tr	
	100'-105'	6902	tr	
	105'-110'	6903	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	110'-115'	6904	tr
	115'-120'	6905	tr
	120'-132' - decrease in chlorite alteration - increase in carbonate grains		
	AT: 120'-125'	6906	tr
	125'-130'	6907	tr
	130'-135'	6908	tr
	135'-140'	6909	tr
	140'-145'	6910	tr
	145'-168' - probable fault zone - abundant ground - abundant calcite stringers and veinlets - talc alteration - shearing present at 30°		
	AT: 146'-150'	6911	tr
	150'-155'	6912	tr
	155'-160'	6913	tr
	163'8"-163'9" - quartz/calcite veinlet - contacts, ± 70° top, 70° bottom - non-mineralized		
	AT: 160'-165'	6914	tr
	165'-170'	6915	tr
	170'-175'	6916	tr
	175'-180'	6917	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	180'-185'	6918	028	✓
	185'-190'	6919	019	
	190'-195'	6920	tr	
	195'-200'	6921	tr	
	200'-205'	6922	tr	
	205'-210'	6923	tr	
	210'-215'	6924	023	✓
	215'-220'	6925	tr	
	220'-225'	6926	tr	
	225'-230'	6927	tr	
	233'-235'- quartz vein			
	-contacts; 80° top, 80° bottom			
	-chlorite/serpentine-talc stringers			
	AT: 230'-232'6"	6928	tr	
	232'6"-235'	6929	tr	
	236'8"-238'- quartz vein			
	-contactacts; 60° top, undeterminable bottom			
	-minor amounts of volcanic fragments			
	-1-2% pyrite associated with volcanic fragments/wall rock contacts			
	-trace to 1% pyrite associated with upper contact			
	-abundant pyrite associated with lower contact			
	238'-239'- fault zone			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-abundant ground			
	-soft gouge present			
	- talc alteration present			
	- trace to 2% pyrite			
	AT : 235'-240'	6930	tr	
	241'-243' - fault zone			
	-abundant ground			
	-soft gouge			
	- trace pyrite			
	AT : 240' -245'	6931	tr	
245'-539'	fine grained grey green intermediate volcanic			
	- possible tuffaceous zone			
	- slightly carbonated matrix			
	- very fine grained carbonate grains			
	- occurrence of shearing at greater depths			
	- trace fine grained disseminated pyrite			
	- trace medium grained to coarse grained disseminated and coalesced pyrite			
	- trace chalcopyrite			
	247'9½"-247'10½" - quartz veinlet			
	- contacts, 85° top, 85° bottom			
	- non-mineralized			
	AT : 245'-250	6932	002	✓
	250' - 255'	6933	tr	

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	253'5½"-253'6½"- quartz/calcite veinlet - undeterminable contacts - non-mineralized			
	255'6"-255'7"- quartz veinlet - contacts; 80° top, 80° bottom - non-mineralized			
	255'7"-255'9"- quartz vein - contacts; ≈60° top, 60° bottom - chlorite/carbonate alteration - non-mineralized			
	AT: 255'-257'6"	6934	tr	
	259'-259'4"- quartz vein - contacts; 60° top, 45° bottom - carbonate alteration - non-mineralized			
	AT: 257'6"-260'	6935	tr	
	260'8"-265'4"- quartz vein - undeterminable contacts - tourmaline stringers - minor amounts of serpentine-talc alteration - sericite alteration - 2 tourmaline stringers (at 267'5") associated with pyrit			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT: 260'-262'6"	6936	tr	
	262'6"-265'	6937	tr	
	265'-267'6"	6938	tr	
	267'6"-267'11"-quartz/carbonate vein system -undeterminable contacts -non-mineralized			
	269'-269'1½"-quartz veinlet -contacts; 48° top, 45° bottom -non-mineralized			
	269'1½"-269'6"-quartz vein -contacts; 45° top, 45° bottom -non-mineralized			
	AT: 267'6"-270'	6939	tr	
	270'1"-270'2"-quartz veinlet -contacts; 70° top, 70° bottom -non-mineralized			
	273'4"-273'4½"-quartz stringer -contacts; 80° top, 80° bottom -non-mineralized			
	AT: 270'-275'	6940	tr	
	275'-280'	6941	tr	
	280'-285'	6942	tr	
	285'-290'	6943	0.20	/
	290'-295'	6944	0.18	/
	295'-300'	6945	tr	
	300'-305'	6946	tr	
	305'-310'	6947	tr	
	310'-315'	6948	tr	
	319'9"-319'9¾"-quartz veinlet -contacts; 85° top, 85° bottom			

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 315'-320'	6949	tr	
	320'-325'	6950	tr	
	325'-330'	6951	tr	
	333'10"-334'2" -kink banding			
	AT: 330'-335'	6952	tr	
	335'-340'	6953	tr	
	340'-345'	6954	tr	
	348'8"-415' -wall rock characterized by shearing at 25° grading to 35° then to 20° at greater depths			
	AT: 345'-350'	6955	tr	
	354'6"-358'3" - 4 to 7% "stretched" mineralization (3% chalcopyrite, 4% pyrite) oriented similar to shearing -minor amounts of talc associated with shearing -sericite present -chlorite stringers oriented similar to shear planes			
	AT: 350'-355'	6956	tr	
	355'-360'	6957	tr	
	360'-365'	6958	tr	
	367'7½"-367'9" -quartz veinlet -contacts; 70° top, 70° bottom -calcite alteration			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 365'-370'	6959	tr	
	370'-375'	6960	tr	
	375'-380'	6961	.330	✓
	380'-385'	6962	007	✓
	385'-397'4"- "stretched" fragmental -fragments associated with chlorite alteration within shear planes -fragments slightly carbonated -trace to 2% disseminated and "stretched" pyrite			
	AT: 385'-390'	6963	tr	
	390'-395'	6964	tr	
	395'-400'	6965	tr	
	404' 1½"-404'4"-quartz vein -contacts; 350° top, 350° bottom -trace pyrite associated with upper contact.			
	AT: 400'-405'	6966	tr	
	405'-410'	6967	tr	
	410'-415'	6968	tr	
	415'-417'6"	6969	tr	
	418'7"-418'8"-quartz veinlet -contacts; 65° top, 65° bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-trace pyrite associated with upper contact			
	419'1½"-419'2"-quartz stringer -contacts; 70° top, 70° bottom -trace fine grain coalesced pyrite associated with both contacts			
	AT: 417'6"-420'	6970	041	✓
	420'2"-420'3½"-quartz veinlet -contacts; 80° top, 80° bottom -trace fine grained pyrite associated within quartz -trace medium grained pyrite associated with chlorite alteration within quartz			
	420'10'-421'1"-quartz vein -undeterminable contacts -black chlorite alteration -trace pyrite and chalcopyrite associated with chlorite alteration			
	421'11"-422'6"-quartz vein -undeterminable top, 70° bottom -black chlorite stringers -calcite alteration -trace to 1% pyrite			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	associated with both contacts			
	AT: 420' - 422'6"	6971	tr	
	424'2" - 425' - quartz vein system - undeterminable contacts - minor amounts of serpentine-talc alteration - 1-2% coarse grained coalesced pyrite associated with quartz system			
	AT: 422'6" - 425'	6972	tr	
	425'3" - 425'4" - quartz veined - contacts, 80° top, 80° bottom - minor amounts of black chlorite alteration - trace medium grained euhedral pyrite associated with both contacts.			
	AT: 425' - 427'6"	6973	tr	
	428'9" - 428'10" - quartz veined - contacts; undeterminable top, 80° bottom - trace medium euhedral pyrite associated with lower contact			
	429' - 439' - probable breccia - light brown to light green			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	fragments enclosed in a dark green to black chlorite matrix. -shattered appearance			
	AT: 427'6" - 430'	6974	tr	
	430'3" - 430'4" - quartz stringer -contacts; 70° top, 70° bottom - trace pyrite associated with both contacts			
	431'7" - 432'4" - quartz vein -contacts; 80° top, 55° bottom - minor amounts of calcite/black chlorite/talc alteration - trace to 1% fine grained coalesced pyrite associated with both contacts			
	AT: 430' - 432'6"	6975	.011	✓
	432'6" - 435'	6976	tr	
	436'14" - 436'9" - quartz vein -contacts; 55° top, 30° bottom - trace pyrite associated with lower contact			
	AT: 435' - 437'6"	6977	.016	✓
	437'11" - 438' - quartz stringer -contacts; 70° top, 70° bottom -ankerite ? alteration - non-mineralized		✓	
	439'7½" - 440'1½" - quartz stringer -contacts; 310° top, 130° bottom -trace to 2% pyrite			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	associated with both contacts and within quartz			
	AT: 437'6" - 440	6978	.021	✓
	440'3" - 471'6" - quartz breccia - contacts; 40° top, 50° bottom - volcanic fragments (35%) quartz (65%) - occurrence of tourmaline stringers - minor amounts of serpentine-talc and carbonate alteration • volcanic fragments slightly carbonated - no shearing with volcanic fragments - types of mineralization; ① trace to 1% medium grained and coarse grained subhedral disseminated pyrite associated with volcanic fragments ② fine grained trace to 1% pyrite associated with serpentine-talc alteration ③ trace chalcopyrite associated with carbonat alteration			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	④ trace chalcopyrite associated with quartz/ volcanic fragments contacts			
	⑤ trace chalcopyrite associated within quartz			
	⑥ trace pyrite associated within quartz			
	⑦ VISIBLE GOLD associated;			
	a) within quartz			
	b) within medium grained subhedral pyrite			
	c) with tourmaline stringers			
	d) with carbonate/chlorite/ volcanic fragment contact			
	e) with volcanic fragment/quartz contact			
	f) with volcanic fragment/chalcopyrite contact			
	g) with minor fault that has a left hand displacement			
	VISIBLE GOLD locations;			
	① 459'10½" - 459'11½"			
	② 460' ½"			
	③ 460' ¾"			
	④ 460' 1½"			
	⑤ 460' 2"			
	⑥ 460' 2¼"			
	⑦ 460'11"			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	⑧ 461'7¼"-461'8½" (within fault)			
	⑨ 463'-463'1½"			
	⑩ 463'7"			
	⑪ 463'7½"			
	⑫ 463'11"-464'			
	⑬ 464'1"-464'2"			
	⑭ 464'2½"			
	AT: 440'-442'6"	6979	.012	✓
	442'6"-445'	6980	tr	
	445'-447'6"	6981	.012	✓
	447'6"-450'	6982	tr	
	450'-452'6"	6983	.001	
	452'6"-455'	6984	.031	✓
	455'-457'6"	6985	tr	
	457'6"-460' V.G.	6986	.833	✓
	460'-462'6" V.G.	6987	2.117	✓
	462'6"-465' V.G.	6988	9.379	✓
	465'-467'6"	6989	.066	✓
	467'6"-470'	6990	tr	
	472'-472'3" - quartz vein - undeterminable contacts - trace subhedral medium to coarse grained pyrite associated with lower contact			
	AT: 470'-472'6"	6991	.013	✓
	472'6"-475'	6992	tr	
	475'-477'6"	6993	tr	
	478'4"-478'11" - quartz vein - trace disseminated pyrite and chalcopyrite			

7.5' @ 4.11

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	associated with lower contact.			
	479'5"-481'8"-quartz vein -contacts; 35° top, 35° bottom -volcanic fragments with trace coarse grained subhedral pyrite -trace pyrite and chalcopyrite associated with both contacts -trace medium grained subhedral-euhedral pyrite associated within quartz			
	477'-494'-wall rock partly characterized by shearing at 40° -abundant pale brown (ankerite?) alteration giving wall rock a fragmented appearance.			
	AT: 477'6"-480'	6994	.007	✓
	480'-482'6"	6995	tr	
	482'6"-485'	6996	.002	✓
	485'-490'	6997	.005	.004
	490'-495'	6998	tr	
	497'4"-497'4½"-quartz stringer -contacts; 80° top, 90° bottom -non-mineralized			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	497'8"-498'6"- quartz vein system - undeterminable - carbonate alteration - non-mineralized			
	AT: 495'-500'	6998	tr	
	500'-505'	7000	tr	
	505'-510'	201	tr	
	510'-515'	202	008	✓
	515'10½"-515'11½"- quartz stringer - contacts; 60° top, 60° bottom - non-mineralized			
	518'-539'- wall rock characterized by shearing at 320°			
	AT: 515'-520'	203	005	✓
	520'-525'	204	tr	
	525'-630'	205	012	✓
	530'-535'	206	tr	
539'-567'½	fine grained dark green mafic volcanic - undeterminable contacts - highly carbonated matrix - moderate amount of calcite stringers up to ½" in size that are randomly oriented - abundant chlorite alteration - abundant ground - shearing common at 25°			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- trace subhedral disseminated pyrite			
	AT: 535'-540'			
	544'1"-544'10" - calcite/quartz vein			
	- undeterminable contacts			
	- trace pyrite			
	AT: 535'-540'	207	tr	
	540'-545'	208	tr	
	545'-550'	209	tr	
	550'-555'	210	tr	
	555'-560	211	tr	
	560'-565	212	tr	
	567'7" - fault			
	- soft gouge			
	- talc alteration			
567'7"-	- fine to medium grained light			
592'8"	green grey intermediate to			
	mafic volcanic.			
	- contacts; top represented			
	by a fault, 25° bottom			
	- highly carbonated matrix			
	- calcite stringers present			
	- minor shearing			
	- trace pyrite			
	AT: 565'-570'	213	tr	
	570'-575'	214	tr	
	575'-580'	215	010	-
	580'-585'	216	008	-
	585'4"-588' - fault zone			
	- contacts grading from			

DIAMOND DRILL LOG

DDH #28

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	0° to 10°			
	-talc/serpentine alteration within fault			
	-trace to 2% medium grained pyrite and fine grained disseminated pyrite associated with fault.			
	589'-590' - quartz/calcite stringer system			
	-stringers randomly oriented			
	-non-mineralized			
	AT: 585'-590'	217	009	✓
592'8"-	- fine grained dark green			
637'	mafic volcanic			
	-contacts; 25° top, undeterminable bottom			
	- highly carbonated			
	-abundant calcite stringers and veinlets randomly oriented			
	- Fe_2O_3 alteration present			
	-no shearing			
	- trace disseminated subhedral pyrite			
	AT: 590'-595'	218	tr	
	595'-600'	219	tr	
	600'-605'	220	tr	
	605'-610'	221	tr	
	610'-615'	222	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	615'-620'	223	tr	
	620'-625'	224	tr	
	625'-630'	225	tr	
	630'-635'	226	tr	
637'-693'	fine grained to medium grained grey green intermediate volcanic - possible tuffaceous zone - moderate amount of calcite stringers at ±90° - slightly carbonated matrix - carbonate grains present - no shearing - trace pyrite			
	AT: 635'-640'	227	tr	
	640'-645'	228	tr	
	646'-660'	229	tr	
	650'-655'	230	008	✓
	656'5"-656'5½"- quartz stringer - contacts; 70° top, 70° bottom - calcite stringers associated with quartz - non-mineralized			
	656'11½"-657'- quartz stringer - contacts; 70° top, 70° bottom - calcite stringers associated with both contacts - non-mineralized			
	657'4"-657'8"- quartz veinlet			

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	•contacts: 30° top, 30° bottom			
	•calcite/black chlorite alteration			
	•tourmaline alteration (minor)			
	658'8"-658'10"-quartz stringer			
	•contacts; 45° top, 45° bottom			
	•non-mineralized			
	659'8"-666'5"-highly silicified (stringers and veinlets) wall rock			
	•shear planes at 345°			
	•carbonate and chlorite alteration oriented parallel to shear planes.			
	•quartz stringers and veinlets oriented similar to shear planes and also cross-cut the shearing			
	•minor amounts of tourmaline stringers			
	•trace very coarse grained disseminated subhedral pyrite			
	•trace disseminated subhedral chalcopyrite			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-trace subhedral disseminated fine grained pyrite		
	- VISIBLE GOLD with quartz stringers at 6662'5"		
	AT : 655'-6660'	231	tr
	: 6660'-6662'6" V.G.	232	.140
	: 6662'6"-6665'	233	.0038
	6666'5"-6666'10"- tectonic breccia		
	- fault zone		
	- soft gouge present		
	- quartz, calcite clasts present		
	- highly carbonated matrix		
	AT : 6665'-670'	234	tr
	674'3"-674'4"- quartz vein		
	- contacts; 70° top, 70° bottom		
	- carbonate alteration		
	- non-mineralized		
	AT : 670'-675	235	tr
	676'4½"-676'6"- quartz vein		
	- contacts; 90° top, 90° bottom		
	- carbonate alteration		
	- non-mineralized		
	AT : 675'-680'	236	tr
	680'-685'	237	tr
	685'-690	238	tr

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
693'-746'4"	fragmental			
	-undeterminable contacts			
	-moderate to high carbonated matrix			
	-light coloured fragments ranging from 1" to 5" enclosed in a dark matrix			
	-abundant chlorite alteration			
	-no shearing			
	-trace to 2% disseminated fine to medium grained subhedral pyrite			
	- trace chalcopyrite			
	AT : 690'-695'	239	tr	
	695'-700'	240	tr	.020 (Cu)
	701'7½"-704'6"- lighter coloured less chloritized fragmental			
	-both contacts characterized by small quartz stringers; upper at 60°, lower at 70°			
	-trace pyrite			
	AT 700'-705'	241	tr	.019 (Cu)
	705'-710'	242	tr	.022 " ✓
	710'-715'	243	tr	.020 " ✓
	715'-720'	244	tr	.020 " ✓
	720'-725'	245	tr	.016 " ✓
	725'-730'	246	tr	.052 " ✓

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	730'-735'	247	tr	.104 (Cu) ✓
	735'-740'	248	tr	.030 " ✓
	740'-745'	249	tr	.026 " ✓
746'4"-	- gabbroic intrusion			
803'	- possible contacts; 40° tops, undeterminable bottom			
	- slightly carbonated			
	- fresh appearance			
	- very minor amounts of calcite stringers			
	- trace disseminated subhedral fine to medium grained pyrite			
	AT: 745'-750'	250	tr	
	750'-755'	251	tr	
	755'-760'	252	tr	
	760'-765'	253	tr	
	765'-770'	254	tr	
	770'-775'	255	tr	
	775'-780'	256	tr	
	780'-785'	257	tr	
	785'-790'	258	tr	
	790'-795'	259	tr	
	796'-796'5" - calcite/epidote/ quartz vein system			
	- contacts, 65° top, 65° bottom			
	- non-mineralized			
	795'-800'	260	tr	
	800'-803'	261	tr	
	HOLE ENDS: 803' February 19/84			

DIAMOND DRILL LOG

DDH #29

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LOCATION DT Property
GRID REFERENCE B+06E, 6+225.
AZIMUTH ~~157°~~ 337° DIP ANGLE -55°
DIP TESTS 0'=55°, 100'= , 200'=54',
CORE 300'=58
DISPOSITION OF CORE DT Coreshack DRILLED BY Rolly

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0'-30'	drill casing			
30'-276'	fine to medium grained grey green intermediate volcanic			
	- possible tuffaceous zone			
	- slightly carbonated matrix			
	- minor amounts of ground			
	- wall rock characterized by shearing at 15° grading to 25° at greater depths			
	- shearing characteristic to 150' decreasing in intensity at greater depths			
	- minor amounts of talc/sericite/actinolite alteration			
	- increase in chlorite stringers at greater depths			
	- trace to 2% pyrite associated with shear planes and chlorite stringers			
	AT: 30'-35'	262	tr	
	35'-40'	263	tr	
	43'6"-43'7" - quartz vein			
	- contacts; 75° top, 75° bottom			
	- tourmaline stringer			
	- non-mineralized			
	AT: 40'-45'	264	tr	
	45'-50'	265	tr	
	50'3½"-52' - quartz vein			

DIAMOND DRILL LOG

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DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 60° top, 60° bottom			
	-siderite alteration associated with upper contact			
	AT : 50' - 55'	266	tr	
	55' - 60'	267	tr	
	60' - 65'	268	tr	
	65' - 70'	269	tr	
	70' - 75'	270	tr	
	75' - 80'	271	tr	
	80'1½" - 80'6" - quartz vein			
	-contacts; 65° top, 65° bottom			
	-siderite alteration associated with upper contact			
	AT : 80' - 85'	272	0.014 ✓	
	85' - 90'	273	tr	
	90' - 95'	274	0.011	
	95' - 100'	275	tr	
	100' - 105'	276	tr	
	108'6" - 110' - wall rock characterized by kinking (crenulation folds)			
	AT : 105' - 110'	277	0.002 ✓	
	113'11" - 114'4½" - quartz vein	M.Q.B.V. 113'11"	S (<3%) - 137'11"	
	-contacts; 70° top, 70° bottom			
	-carbonate/chlorite alteration			
	-trace to 1% coarse grained pyrite associated with lower contact			

DIAMOND DRILL LOG

DDH #29

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DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	AT: 110'-112'6" 112'6"-115'	278 279	0.005 tr
	117'8"-128'9"- quartz breccia		
	-volcanic fragments (18%)		
	-quartz (82%)		
	-carbonate/chlorite alteration		
	-minor amounts of tourmaline stringers		
	-talc alteration associated with volcanic fragments		
	-minor amounts of serpentine alteration		
	-2-3% disseminated coalesced pyrite associated with upper contact		
	-trace chalcopyrite		
	-2% pyrite associated with volcanic fragments/quartz contacts		
	AT: 115'-117'6"	280	0.013 ✓
	117'6"-120'	281	0.168 ✓
	120'-122'6"	282	0.002 ✓
	122'6"-125'	283	0.260 ✓
	125'-127'6"	284	0.166
	129'3"-129'4"- quartz veinlet		
	-contacts, 75° top, 75° bottom		
	-trace pyrite associated with both contacts		
	-trace pyrite within quartz		
	-VISIBLE GOLD ass-		

DIAMOND DRILL LOG

DDH #29

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	ociated with lower contact			
	AT : 127'6" - 130' V.G.	285	.057	
	133'3"-133'4" - quartz stringer -contacts, 65° top, 65° bottom -non-mineralized			
	133'5"-133'9" - quartz vein -contacts, 55° top, 55° bottom -calcite/carbonate alteration -trace pyrite associated with upper contact			
	AT: 130' - 135'	286	tr	
	137'-137'6" - quartz stringer -contacts, 20° top, 20° bottom -calcite/chlorite alteration -abundant pyrite associated with both contacts			
	137'7½"-137'11" - quartz vein -contacts, 80° top, 80° bottom -calcite/chlorite alteration -2 to 5% pyrite associated with upper contact -1 to 2% pyrite assc			

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	ociated with calcite/ chlorite alteration			
	AT: 135'-140'	287	tr	
	140'-145'	288	tr	
	145'-150'	289	tr	
	150'-155'	290	0.012	✓
	155'9"-160'2"-quartz stringer:			
	-contacts; 25° top, 25° bottom			
	-non-mineralized			
	AT: 155'-160'	291	0.003	✓
	160'2"-160'5"-quartz stringer			
	-contacts; 25° top, 25° bottom			
	-non-mineralized			
	AT: 160'-165'	292	tr	
	167'8"-167'11"-quartz vein			
	-contacts; 65° top, 65° bottom			
	-carbonate/chlorite alteration			
	-trace pyrite			
	168'0"-168'8"-highly silicified wall rock			
	-trace pyrite			
	AT: 165'-170'	293	tr	
	170'3"-170'4"-quartz veinlet			
	-contacts; 65° top, 65° bottom			
	-trace to 1% coarse grained pyrite associated with upper contact			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	171'9"-172' - quartz vein		
	-contacts; 65° top, 65° bottom		
	- trace to 1% coarse grained pyrite associated with upper contact.		
	173'3"-173'4" - quartz vein		
	-contacts; 65° top, 65° bottom		
	- non-mineralized		
	AT: 170'-175'	294	0.014
	175'-180'	295	tr
	180'-185'	296	tr
	185'-190'	297	tr
	190'-195'	298	tr
	195'-200'	299	tr
	200'-205'	300	tr
	205'-210'	301	tr
	210'-215	302	tr
	215'-220'	303	tr
	220'-225'	304	tr
	225'7"-227'2" - possible fault zone		
	-abundant talc		
	-minor amounts of soft gouge		
	227'2"-237' - wall rock characterized by silicification (quartz stringers).		
	AT: 225'-230'	305	tr

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	230'-235'	306	tr	
	235'-240'	307	tr	
	240'-245'	308	tr	
	245'-250'	309	0.179	✓
	253'-276' - increase in carbonate alteration			
	AT: 250'-255'	310	0.016	✓
	255'-260'	311	tr	
	260'-265'	312	tr	
	265'-270'	313	tr	
	270'-276'	314	tr	
276'-280'	lost core			
280'-350'	fine grained very dark green to dark green mafic volcanic - highly carbonated matrix - moderate amount of calcite stringers ¼" to ½" randomly oriented - chlorite alteration - no shearing - trace disseminated subhedral fine to medium grained pyrite			
	AT: 280'-285'	315	.005	.009
	285'-290'	316	tr	
	290'-295'	317	tr	
	295'-300'	318	tr	
	300'-305'	319	tr	
	305'-310'	320	tr	

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	310'-315'	321	tr
	315'-320'	322	tr
	320'-325'	323	tr
	325'-330'	324	tr
	330'-335'	325	tr
	339'-345'-fault zone		
	-abundant soft gouge at 339'		
	-abundant ground		
	AT: 335'-340'	326	tr
	340'-345'	327	tr
	345'-350'	328	tr
350'-415'	fine to medium grained green grey intermediate to mafic volcanic		
	- highly carbonated matrix		
	- minor shearing at 40°		
	- calcite grains common		
	- minor amounts of calcite stringers		
	- trace pyrite mineralization		
	350'-370'-wall rock characterized by abundant ground		
	AT: 350'-355'	329	tr
	355'-360'	330	tr
	360'-365'	331	tr
	365'-370'	332	tr
	370'-375'	333	tr
	375'-380	334	tr

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	380'-385'	335	tr	
	385'-390'	336	tr	
	390'-395'	337	tr	
	395'-400'	338	tr	
	400'-405'	339	tr	
	407'-407'10" - pale brown (ankerite?) alteration giving rock a fragmented appearance			
	AT: 405'-410'	340	029	✓
	407'10"-407'11" - quartz stringer - contacts 65° top, 65° bottom - abundant pyrite associated with both contacts			
	AT: 410'-415	341	tr	
415'-502'	- fine grained dark green to green intermediate to mafic volcanic - highly carbonated matrix - minor calcite stringers - chlorite alteration - no shearing - trace pyrite mineralization			
	AT: 415'-420'	342	tr	
	420'-425	343	tr	
	425'-430'	344	tr	
	430'-435'	345	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	435'-440'	346	tr	
	440'-445'	347	tr	
	445'-450'	348	tr	
	450'-455'	349	tr	
	455'-460'	350	tr	
	460'-465'	351	tr	
	465'-470'	352	tr	
	470'-475'	353	tr	
	475'-480'	354	tr	
	480'-485'	355	tr	
	485'-490'	356	tr	
	490'-495'	357	tr	
	495'-500'	358	tr	
	500'-502'	359	tr	
	HOLE ENDS AT 502' FEBRUARY 20, 1984.			
	Ken Lapierre			

DIAMOND DRILL LOG

DDH #30

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LOCATION DT Property
GRID REFERENCE B10+E, 6+26S
AZIMUTH ~~057~~ 337 DIP ANGLE - 75°
DIP TESTS 0'=75', 100'=77.5°, 200'=79.5°
CORE 300'=77°, 477'=80°
DRILLED BY Rally

DISPOSITION OF CORE DT Coreshack

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0 - 18'	drill casing			
18' - 140'	fine to medium grained grey green intermediate volcanic			
	- possible tuffaceous zone			
	- slightly carbonated matrix			
	- moderate amount of chlorite stringers at less depths			
	- minor amount of calcite grains at greater depths.			
	- minor amount of shearing (sporadic			
	- trace to 5% (sporadic) medium grained subhedral disseminated coalesced pyrite			
	- pyrite stringers			
	AT: 18'-20'	360	tr	
	20'-25'	361	tr	
	25'-30'	362	tr	
	30'-35'	363	tr	
	35'-40'	364	tr	
	40'-45'	365	tr	
	45'-50'	366	tr	
	50'-55'	367	tr	
	54'5"-54'6½"-quartz stringer			
	-contacts, 55° top, 55° bottom			
	- non-mineralized			
	AT: 55'-60'	368	tr	
	60'-65'	369	tr	

DIAMOND DRILL LOG

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LOCATION
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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	65'-70'	370	tr
	70'-75'	371	tr
	75'6"-75'7"- quartz veinlet		
	- contacts, 90° top, 90° bottom		
	- siderite alteration associated with both contacts		
	- non-members		
	AT: 75'-80'	372	tr
	80'-85'	373	tr
	85'2"-86'2"- 2 to 5% medium grained subhedral pyrite stringers		
	87'-89'- highly silicified wall rock		
	- abundant calcite grains		
	- trace coarse grained disseminated pyrite		
	- trace to 1% medium grained subhedral pyrite stringers		
	AT: 85'-90'	374	tr
	91'-105'- possible cataclastic breccia		
	- light coloured grains enclosed in a dark coloured matrix		
	AT: 90'-95'	375	tr
	95'-100'	376	tr
	100'-105'	377	tr
	108'5"-110'2"- trace to 4%		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	disseminated pyrite			
	and pyrite stringers			
	105'-140' - highly carbon-			
	ated matrix			
	AT: 105'-110'	378	tr	
	110'-115'	379	tr	
	115'-120'	380	tr	
	120'-125'	381	tr	
	125'-130'	382	tr	
	130'-135'	383	tr	
	135'-140'	384	tr	
140'-342'9"	fine grained dark green			
	mafic volcanic			
	- highly carbonated matrix			
	- chlorite alteration			
	- abundant calcite stringers			
	- shearing at ≈325°			
	- trace disseminated sub-			
	hedral pyrite			
	AT: 140'-145'	385	tr	
	145'-150'	386	tr	
	150'-155'	387	tr	
	155'-160'	388	tr	
	160'-165'	389	tr	
	165'-170'	390	tr	
	170'-175'	391	tr	
	175'-180'	392	tr	
	180'-185'	393	tr	
	185'-190'	394	tr	
	194'10"-195'8" - 2% subhedral			
	pyrite associated with			

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	chlorite/carbonate alteration			
	AT: 190'-195'	395	tr	
	195'-200'	396	tr	
	200'-205'	397	tr	
	205'-210'	398	tr	
	210'-215'	399	Tr	Tr
	218'4"-218'10" - quartz/calcite vein system			
	- undeterminable top, ±20° bottom (contacts)			
	- minor amounts of Fe_2O_3 alteration			
	- non-mineralized			
	AT: 215'-220'	400	tr	
	220'-225'	401	tr	
	225'-230'	402	tr	
	230'-235'	403	tr	
	238'5"-238'10" - calcite/quartz vein			
	- undeterminable contacts			
	- non-mineralized			
	AT: 235'-240'	404	tr	
	243'11"-245'3" - calcite veinlet			
	- contacts; 10° top, 10° bottom			
	- non-mineralized			
	AT: 240'-245'	405		
	245'-250'	406	tr	
	253'6"-254 - calcite veinlet			
	- contacts; 10° top, 10° bottom			
	- non-mineralized			
	AT: 250'-255'	407	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	255'-260'	408	0.040
	260'-265'	409	tr
	265'-270'	410	tr
	270'-275'	411	tr
	275'-280'	412	tr
	280'-285'	413	tr
	287'2"-288' - fault zone		
	- contact: 25°		
	- cataclastic breccia		
	- abundant soft gouge		
	- non-mineralized		
	288'-305' - abundant calcite		
	stringers that are		
	randomly oriented		
	AT: 285'-290'	414	0.039
	290'-295'	415	.007 .009
	295'-300'	416	0.042
	300'-305'	417	0.002
	305'-310'	418	tr
	310'-315'	419	0.060
	315'-320'	420	tr
	320'-325'	421	tr
	325'-330'	422	tr
	330'-335'	423	tr
	335'-340'	424	tr
	340'-345'	425	tr
342'9"-	- gabbroic intrusion		
477'	- contacts; 20° top (associated		
	with possible fault), un-		
	determinable bottom		
	- chlorite/carbonate alteration		

DIAMOND DRILL LOG

DDH# 30

JOHN KIRWAN & ASSOCIATES LTD.

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LOCATION
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AZIMUTH DIP ANGLE
DIP TESTS
CORE
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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- decrease in chlorite/calcite alteration at greater depths			
	- Fe staining			
	- overall fresh appearance			
	- no shearing			
	- trace disseminated pyrite associated with chlorite/carbonate alteration			
	AT: 345'-350'	426	tr	
	354'6"-354'8" - quartz vein			
	- contacts; 80° top, 80° bottom			
	- carbonate alteration			
	- non-mineralized			
	AT: 350'-355'	427	tr	
	355'-360'	428	0.120	
	360'-365'	429	0.001	
	365'-370'	430	0.002	
	370'-375'	431	tr	✓
	375'-380'	432	tr	✓
	380'-385'	433	tr	✓
	385'-390'	434	tr	
	390'-395'	435	tr	
	395'-400'	436	tr	
	400'-405'	437	tr	
	405'-410'	438	tr	
	410'-415'	439	tr	
	415'-420'	440	tr	
	420'-425'	441	tr	
	425'-430'	442	tr	
	434'6"-434'7" - calcite/quartz veinlet			
	- contacts; 70° top, 70° bottom			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 430'-435'	443	tr	
	435'-440'	444	tr	
	440'-445'	445	tr	
	445'-450'	446	tr	
	450'-455'	447	tr	
	455'-460'	448	tr	
	460'-465'	449	tr	
	466' 1½"-466' 2"-quartz stringer			
	contacts, 80° top, 80° bottom			
	-non-mineralized			
	AT: 465'-470'	450	Tr	
	474' 3"-474' 5½"-chlorite /			
	carbonate stringers			
	system			
	- trace to 1% subhedral			
	pyrite associated			
	with both contacts			
	AT: 470'-475'	451	Tr	
	475'-477'	452	Tr	
	HOLE ENDS AT 477'			
	FEBRUARY 20, 1984			

DIAMOND DRILL LOG

DDH #31

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LOCATION DT Property
GRID REFERENCE 4+00 E., 1+80 S.
AZIMUTH DIP ANGLE -90°
DIP TESTS 0' = 90°, 100' = 90°, 200' = 88°, 300' = 88°, 400' = 86°, 500' = 88°, 600' = 87°, 700' = 88', 800' = 84°, 897' = 85°
CORE BQ
DRILLED BY Rolly T

DISPOSITION OF CORE DT Coreshack

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-2'	- drill casing			
2'-201'	- fine to medium grained silicified green to light green grey intermediate to mafic volcanic			
	- undeterminable contacts			
	- slightly carbonated matrix			
	- moderate amount of quartz stringers randomly oriented			
	- minor amounts of shearing at different locations			
	- 1 to 2% subhedral medium grained pyrite			
	- trace coarse grained disseminated euhedral pyrite			
	4'3"-4'11" - wall rock characterized by 10 to 15% fine to medium grained disseminated subhedral to euhedral pyrite			
	AT : 2'-5'	453	tr	
	8'11"-9'10" - fault			
	- 15° contact			
	- 2 to 5% pyrite associated with lower contact (footwall)			
	AT: 5'-10'	454	tr	
	10'-15'	455	tr	
	15'-20'	456	tr	
	20'-25'	457	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	25'-30'	458	tr
	30'-35'	459	tr
	38'8"-39'6"-quartz stringer		
	-contacts, 20° top, 20° bottom		
	-medium grained subhedral		
	pyrite associated with-		
	in quartz		
	AT: 35'-40'	460	tr
	40'10"-42'4"-abundant sid-		
	erite weathering		
	AT: 40'-45'	461	tr
	45'-50'	462	tr
	50'-55'	463	tr
	55'-60'	464	tr
	60'-65'	465	tr
	65'-70'	466	tr
	70'-75'	467	tr
	75'-80'	468	tr
	80'-85'	469	tr
	85'-90'	470	tr
	90'-91'5"-fault		
	-undeterminable contact		
	-serpentine-talc alt-		
	eration		
	AT: 90'-95'	471	tr
	95'-100'	472	tr
	100'-105'	473	tr
	105'-110'	474	tr
	110'-115'	475	tr
	115'-120'	476	tr
	120'-125'	477	tr
	125'-130'	478	tr

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	130'1" - 130'11" - possible fault			
	- abundant gouge			
	130'11" - 131'9" - quartz vein system			
	- undeterminable contacts			
	- trace disseminated medium grained subhedral pyrite			
	131'4" - 139' - wall rock characterized by shearing from 45° grading to 20°			
	AT : 130' - 135'	479	tr	
	135' - 140'	480	tr	
	140' - 145'	481	tr	
	146'7" - 147'5" - quartz vein system			
	- undeterminable contacts			
	- trace disseminated subhedral pyrite			
	AT : 145' - 150'	482	tr	
	150' - 155'	483	tr	
	158'6" - 159'3" - quartz vein			
	- contacts; 45° top, 40° bottom			
	- chlorite alteration			
	- trace pyrite			
	AT : 155' - 160'	484	tr	
	160'8" - 160'9" - possible fault zone			
	- talc/sericite/actinolite alteration			
	161'9" - 162'11" - quartz/calcite vein			
	- chlorite alteration			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- non-mineralized			
	AT: 160'-166'	485	tr	
	166'-170'	486	tr	
	169'8½"-169'11"-quartz vein			
	-contacts, 45° top, 45° bottom			
	- non-mineralized			
	173'1"-174'7"-quartz/calcite vein system			
	-contacts, 45° top, 70° bottom			
	-abundant serpentine-talc alteration			
	- trace to 1% disseminated pyrite			
	-trace chalcopyrite			
	AT: 170'-175'	487	tr	
	176'5½"-176'6½"-quartz veinlet			
	-contacts, 70° top, 70° bottom			
	- non-mineralized			
	AT: 175'-180'	488	tr	
	180'-185'	489	tr	
	185'-190'	490	tr	
	190'-195'	491	tr	
	195'-200'	492	0.008	✓
	200'-205'	493	tr	
201'-496'4"-	fine grained dark green mafic volcanic			
	-contacts: 370° top, undetermin-able bottom			
	· slightly carbonated increas-ing to highly carbonated at			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	Increasing depths			
	- minor amounts of Fe_2O_3 staining			
	- moderate amount of calcite stringers			
	- chlorite alteration			
	- shearing at greater depths			
	- trace pyrite			
	AT: 205'-210'	494	tr	
	210'-215'	495	tr	
	215'-220'	496	tr	
	220'-225'	497	tr	
	225'-230'	498	tr	
	230'-235'	499	tr	
	235'-240'	500	tr	
	240'-245'	501	tr	
	245'-250'	502	tr	
	254'2"-254'3" - quartz veinlet			
	- contacts; 75° top, 75° bottom			
	- non-mineralized			
	AT: 250'-255'	503	tr	
	258'10"-259'2" - quartz stringers			
	- contacts; 20° top, 20° bottom			
	- non-mineralized			
	AT: 255'-260'	504	tr	
	260'-265'	505	tr	
	267'11"-268'6" - fault zone			
	- abundant soft gouge			
	- undeterminable contact			
	- highly carbonated			
	AT: 265'-270'	506	tr	
	270'-275'	507	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	275'-280'	508	0.006
	280'-285'	509	tr
	285-290'	510	tr
	290'-295'	511	tr
	295'-300'	512	tr
	300'-315'-shearing at 330°		
	304'6"-304'11"-quartz veinlet		
	-contacts; 30° top, 30° bottom		
	-quartz veinlet oriented parallel to shearing		
	-non-mineralized		
	AT: 300'-305'	513	tr
	307'11"-308'7"-quartz/calcite veinlet		
	-contacts; 30° top, 30° bottom		
	-veinlet oriented parallel to shearing		
	-non-mineralized		
	AT: 305'-310'	514	tr
	310'-315'	515	tr
	315'-320'	516	tr
	320'-325'	517	tr
	325'-330'	518	tr
	332'8"-334'8"-quartz vein		
	-undeterminable contact		
	-chlorite/calcite alteration		
	-minor amounts of serpentine-talc alteration		
	-non-mineralized		
	AT: 330'-335'	519	tr
	335'-340'	520	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	340' - 345'	521	tr
	345' - 350'	522	tr
	350' - 355'	523	tr
	355' - 360	524	tr
	360' - 365'	525	tr
	365' - 370'	526	tr
	370' - 375'	527	tr
	375'11" - 378'3" quartz vein		
	- undeterminable top, 340' bottom (contacts)		
	- chlorite/calcite alteration		
	- talc alteration		
	- non-mineralized		
	AT: 375' - 380'	528	tr
	380' - 385'	529	tr
	385' - 390'	530	tr
	390' - 395'	531	tr
	395' - 400'	532	tr
	400' - 405'	533	tr
	405' - 410'	534	tr
	413' - 431' - shearing from 20° to 30°		
	AT: 410' - 415'	535	tr
	415' - 420'	536	tr
	420' - 425'	537	tr
	425' - 430'	538	tr
	430' - 435'	539	tr
	435' - 440'	540	tr
	440' - 445'	541	tr
	445' - 450'	542	tr
	460' - 455'	543	tr

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	455'-460'	544	tr	
	461'2"-461'5"-quartz/calcite vein			
	-contacts, 25° top, 25° bottom			
	-trace pyrite			
	AT: 460'-465'	545	tr	
	465'-470'	546	tr	
	470'-475'	547	tr	
	475'-487'-wall rock characterized by abundant calcite grains			
	-ground common			
	AT: 475'-480'	548	tr	
	480'-485'	549	tr	
	485'-490'	550	tr	
	489'6"-490'6"-fault			
	-20° contact			
	-soft gouge			
	-talc alteration present			
	AT: 490'-495'	551	tr	
496'4"-569'6"	fine grained grey green silicified intermediate volcanic			
	-possible tuffaceous zone			
	-slighty to moderately carbonated			
	-shearing common			
	-trace fine to medium grained disseminated pyrite			
	496'5"-497'6"-quartz vein			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 20° top, 20° bottom			
	· trace pyrite associated			
	with quartz			
	AT: 495'-500'	552	tr	
	500'-505'	553	tr	
	508'-509'3"- tourmaline/carbon-			
	nate/quartz system			
	- undeterminable contacts			
	- highly carbonated			
	- trace pyrite			
	AT: 505'-510'	554	tr	
	511'-511'5"- quartz/calcite			
	vein			
	- undeterminable top, 65°			
	bottom (contacts)			
	- minor amounts of tour-			
	maline			
	- trace pyrite			
	AT: 510'-515'	555	tr	
	515'-520'	556	tr	
	520'11"-521'2"- quartz vein			
	- contacts; undeterminable			
	tops, 65° bottom			
	- minor amounts of			
	chlorite/carbonate			
	alteration			
	- abundant pyrite ass-			
	ociated with bottom			
	contact			
	- trace chalcopyrite ass-			
	ociated within quartz			
	AT: 520'-522'6"	557	.009	✓

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	522'7½"-522'8½"- quartz vein-let -contacts; 75° top, 75° bottom -abundant fine to medium grain pyrite associated with lower contact -trace pyrite associated with upper contact and within quartz AT: 522'6"-525'	5.58	tr	
	525'11"-540'3"-quartz breccia -contacts; 45° top, 70° bottom -volcanic fragments (55%) -quartz (45%) -slightly to moderately carbonated fragments -tourmaline stringers associated within quartz -talc sericite alteration -no shearing within volcanic fragments -types of mineralization: ① trace to 5% medium to coarse grained coalescent and disseminated pyrite within volcanic fragments ② trace medium to coarse grained pyrite associated within quartz ③ trace to 2% pyrite associated with volcanic			

DIAMOND DRILL LOG

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	fragments/quartz contact			
	④ trace disseminated cha-			
	lcopyrite associated with			
	volcanic fragments			
	⑤ trace chalcopyrite asso-			
	ciated within quartz			
	⑥ VISIBLE GOLD			
	associated;			
	a) with volcanic fragments			
	b) with volcanic fragments/			
	quartz contacts			
	c) within quartz			
	- VISIBLE GOLD locations			
	① 528'9"			
	② 530'2".			
	③ 530'2½"			
	④ 835'9½"			
	⑤ 539'2"			
	AT: 525' - 527'6"	559	.009	✓
	527'6" - 530' V.G.	560	.008	✓
	530' - 532'6" V.G.	561	.542	✓
	532'6" - 535'	562	.043	✓
	535' - 537'6" V.G.	563	.178	✓
	537'6" - 540 V.G.	564	.055	✓
	541'10" - 541'10¾" quartz veinlet			
	- contacts; 90° top, 90° bottom			
	- trace pyrite within quartz			
	542'5" - 542'6" - quartz veinlet			
	- contacts; 50° top, 50° bottom			
	- non-mineralized			
	AT: 540' - 542'6"	565	.005	✓
	542'6' - 545'	566	.005	✓

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	546' 11½"-547' - quartz stringer			
	- contacts; 75° top, 75° bottom			
	- trace pyrite and chalcopyrite associated with both contacts			
	AT: 545' - 547'6"	567	tr	
	549' 10½"-549' 11" - quartz stringer			
	- contacts; 80° top, 80° bottom			
	- non-mineralized			
	AT: 547'6" - 550'	568	.010	✓
	550' - 555'	569	tr	
	550' - 566' - wall rock characterized by shearing ranging from 25° to 40°			
	- abundant very small quartz stringers (1/16" to 1/8") that are oriented similar to shear planes			
	AT: 555' - 560'	570	tr	
	560' - 565	571	tr	
	565' - 567'6" V.G.	572	.081	✓
	569' 3½" - VISIBLE GOLD, 1 spec associated within wall rock			
	569' 4" - 569' 7½" - quartz vein			
	- contacts; 85° top, 85° bottom			
	- minor amounts of calcite stringers			
	- VISIBLE GOLD, 2 areas;			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	① 569'6½" - 1 spec associated within quartz vein			
	② 569'7½" - 1 spec associated with lower contact			
	- trace very fine grained pyrite associated with both contacts			
	AT: 567'6" - 570' V.G.	573	.088	✓
	570' - 572'6"	574	tr	
	572'6" - 575'	575	.013	✓
569'10" - 680'	- fine grained very dark green to dark green mafic volcanic			
	- contacts; possible top - 75°, undeterminable bottom			
	- highly carbonated			
	- chlorite alteration			
	- no shearing			
	- trace disseminated subhedral pyrite			
	AT: 575' - 580'	576	tr	
	580' - 585'	577	tr	
	586'8" - 587'4" - quartz vein			
	- contacts; 65° top, 65° bottom			
	- non-mineralized			
	AT: 585' - 590'	578	tr	
	590' - 595'	579	tr	
	595' - 600'	580	tr	
	604'3½" - 604'3¾" - quartz/epidote			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	stringer			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	604'8"-606'2"- possible fault zone			
	- undeterminable contact			
	- non-mineralized			
	AT: 600'-605'	581	tr	
	605'-610'	582	tr	
	610'-615'	583	tr	
	615'-617'- possible fault zone			
	- undeterminable contact			
	- talc alteration			
	616'2"-616'6½"- quartz vein			
	- undeterminable contact			
	- chlorite alteration			
	617'-624'- wall rock characterized by abundant subrounded to subangular calcite grains			
	AT: 615'-620'	584	tr	
	620'-625'	585	tr	
	623'10"-624'3"- fault zone			
	- 20° contact			
	- serpentine-talc alteration			
	- chlorite alteration			
	- 5 to 10% medium grained anhedral pyrite associated within fault plane			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT: 625'-630'	586	tr	
	630'-635'	587	tr	
	638'-646' - wall rock characterized by calcite stringers ⅛" to ¼" wide ranging from 45° to 85°			
	AT: 635'-640'	588	tr	
	640'-645'	589	tr	
	645'-650'	590	0.014	✓
	650'-655'	591	tr	
	655'-660'	592	tr	
	660'-665'	593	tr	
	665'-670'	594	tr	
	670'-675'	595	tr	
	675'-680'	596	tr	
680-744'3"	fine to medium grained green to green grey intermediate to mafic volcanic			
	- undeterminable contacts			
	- partially silicified			
	- moderate to highly carbonated			
	- no shearing			
	- trace pyrite mineralization			
	682'6"-682'7" - quartz veined			
	- contacts; 75° top, 75° bottom			
	- non-mineralized			
	683'8"-687'2½" - cataclastic			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	breccia			
	- undeterminable contacts			
	- highly carbonated			
	- shearing at ± 45°			
	- trace to 5% pyrite associated with quartz			
	AT: 680'-685'	597	tr	
	685'-690'	598	tr	
	690'-695'	599	tr	
	695'-700'	600	0.020	✓
	700-705'	601	tr	
	712'10½"-713'½"-calcite vein			
	- contact; undeterminable			
	- non-mineralized			
	713'5½"-713'6"-quartz stringer			
	- contacts, 28° top, 75° bottom			
	- non-mineralized			
	AT: 705'-710'	602	tr	
	710'-715'	603	tr	
	715'-720'	604	tr	
	720'-725'	605	tr	
	725'-730'	606	0.003	✓
	730'-735'	607	0.016	✓
	735'-740'	608	tr.	
744'3"-~~846'~~	fine to medium grained gabbro			
	- undeterminable contacts			
	- moderate amount of calcite stringers that are randomly oriented			
	- fresh appearance			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- chlorite alteration			
	- abundant epidote alteration			
	- slightly carbonated			
	- highly carbonated proximal to both contacts			
	- no shearing			
	- trace pyrite			
	At: 740'-745'	C609	tr	
	745'-750'	C610	tr	
	750'-755'	C611	tr	
	755-760	C612	tr	
	760-765	C613	tr	
	765'-770'	C614	tr	
	770'-775	C615	tr	0.003 ✓
	775'-780	C616	tr	
	780'-785'	C617	tr	
	785'-790'	C618	tr	
	790'-795'	C619	tr	
	795'-800	C620	tr	
	800'-805'	C621	0.007	✓
	805'-810'	C622	tr	
	810'-815'	C623	tr	
	815'-820'	C624	tr	
	820'-825'	C625	tr	
	825'-830'	C626	tr	
	830'-835'	C627	tr	
	835'-840'	C628	tr	
	840'-846'4" - breccia			
	- 5 to 10% stringers consisting of pyrrhotite and chalcopyrite			

DIAMOND DRILL LOG

DDH #31

JOHN KIRWAN & ASSOCIATES LTD.

EARTH RESOURCE ASSOCIATES

LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-undeterminable top, 25° bottom (contacts)			
	- highly carbonated			
	- abundant epidote			
	- magnetic			
	- trace pyrite			
	AT: 840' - 845'	629	0.003	
846'4" - 866'	- fine grained dark green to green mafic volcanic			
	- slightly to moderately carbonated			
	- chlorite alteration			
	- epidote alteration			
	- moderate amount of calcite stringers			
	- trace pyrite			
	- trace pyrrhotite associated within calcite stringers			
	AT: 845' 850'	630	0.006	
	850' - 855'	631	tr	
	858' - 867' - shearing at 30°			
	AT: 855' - 860'	632	tr	
	860' - 865'	633	tr	
866' - 947'	- fragmental			
	- undeterminable contact			
	- slightly to highly carbonated			
	- moderat amount of calcite stringers			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- subrounded to subangular light to dark green ⅛" to 1" wide fragments enclosed in a light to dark green matrix			
	- trace pyrrhotite associated within calcite stringers			
	AT: 865'-870'	634	tr	
	870'-875'	635	tr	
	875'-880'	636	tr	
	880'-885'	637	tr	
	885'-890'	638	tr	
	890'-895'	639	0.001	✓
	895'-900'	640	tr	
	900'-905'	641	tr	
	905'-910'	642	0.003	✓
	910'-915'	643	tr	
	915'-920'	644	tr	
	920'-925'	645	0.047	✓
	925'-930'	646	tr	
	930'-935'	647	tr	
	935'-940'	648	tr	
	940'-945'	649	tr	
	946'-946'5' - quartz vein - contacts; 70° top, 20° bottom - non-mineralized			
	AT: 945'-947'	650	tr	
	HOLE ENDS AT 947' February 23, 1984.			

Ken Lapierre

Elev 310.9

DIAMOND DRILL LOG

DDH #32

JOHN KIRWAN & ASSOCIATES LTD.

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LOCATION DT Property
GRID REFERENCE 2+50E, 31+20S
AZIMUTH DIP ANGLE -90°
DIP TESTS 0'=90°, 100'=84°, 200'=85°, 300'=85°, 400'=86°, 500'=86°, 600'=85°, 700'=84°
CORE BQ
DRILLED BY Rolly

DISPOSITION OF CORE DT Coreshack

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0'-16'	- drill casing			
16'-149'10"	- fine to medium grained grey green intermediate volcanic			
	- undeterminable contacts			
	- slightly carbonated			
	- abundant siderite alteration at higher depths			
	- shearing present at 30° from 16' to 62'			
	- trace to 1% fine grained to coarse grained disseminated pyrite			
	16'4"-17'-quartz vein			
	-contacts, 30° top, 30° bottom			
	-siderite alteration			
	- trace pyrite			
	17'2"-17'6"-quartz veinlet			
	-contacts, 25° top, 25° bottom			
	- siderite alteration			
	- trace pyrite			
	19'4"-20'-quartz vein			
	-contacts, 50° top, 50° bottom			
	-siderite alteration			
	- trace to 2% pyrite associated with lower contact			
	AT= 16'-20'	651	tr	
	20'-25'	652	0.084	
	26'-30'	653	0.004	
	30'-35'	654	0.002	

DIAMOND DRILL LOG

DDH #32

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LOCATION
GRID REFERENCE
AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	35'11"-36'½"-quartz vein			
	-contacts; 70° top, 70° bottom			
	-non-mineralized			
	AT: 35'-40'	655	0.126	
	40'-45'	656	tr	
	45'-50'	657	tr	
	50'10"-50'11"-quartz vein			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 50'-55'	658	tr	
	55'-60'	659	tr	
	60'-65'	660	tr	
	67'-67'3"-quartz vein			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT: 65'-70'	661	tr	
	70'-75'	662	tr	
	75'-80'	663	0.020	
	80'-85'	664	tr	
	85'-90'	665	tr	
	90'3"-90'5"-quartz vein	W.Q.V.S (3%) 90'3"-110'6"		
	-contacts; 75° top, 75° bottom			
	-carbonate/chlorite alteration			
	-non-mineralized			
	AT: 90'-95'	666	tr	
	95'11½"-96'-quartz stringer			
	-contacts; 70° top, 70° bottom			
	-non-mineralized			
	99'7"-99'7½"-quartz stringer			

DIAMOND DRILL LOG

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LOCATION
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AZIMUTH DIP ANGLE
DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 60° top, 60° bottom			
	-non-mineralized			
	AT: 95'-100'	667	tr	
	100' 4½"-100' 5"-quartz stringer			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	100'11"-101'9"-quartz vein system			
	-contacts; undeterminable			
	-trace medium grained disseminated pyrite			
	102'3"-103'8"-silicified wall rock			
	-trace pyrite			
	-trace chalcopyrite			
	103'9"-103'9½"-quartz veinlet			
	-contacts; 70° top, 70° bottom			
	-non-mineralized			
	104'4"-104'9"-quartz vein			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT: 100'-105'	668	tr	
	105'6"-105'6½"-quartz stringer			
	-contacts; 70° top, 70° bottom			
	-non-mineralized			
	107'10"-107'10¾"-quartz veinlet			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	109'2"-110'6"-quartz stringer			
	-undeterminable contacts			
	-trace pyrite			
	AT: 105'-110'	669	tr	

DIAMOND DRILL LOG

DDH #32

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	110'-115'	670	tr
	115'-120'	671	tr
	120'-125'	672	tr
	125'-130'	673	tr
	134'-156'9"-wall rock consisting of abundant carbonate grains		
	149'-149'10"-silicified wall rock		
	AT: 130'-135'	674	0.006
	135'-140'	675	tr
	140'-145'	676	0.008
	145'-150'	677	tr
149'10"-197'	-fine grained very dark green mafic volcanic -gradation contact -highly carbonated -calcite stringers common -no shearing -trace to 1% disseminated subhedral to anhedral pyrite		
	AT: 150'-155'	678	tr
	155'-160'	679	tr
	162'-162'8"-quartz/calcite vein system -undeterminable contacts -non-mineralized		
	AT: 160'-165'	680	tr
	165'-170'	681	tr
	170'-175'	682	tr

DIAMOND DRILL LOG

DDH #32

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LOCATION
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CORE
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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	179'10½"-180'½"-quartz/calcite vein			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 175'-180'	683	tr	
	180'-185'	684	0.009	
	187'10"-188'-quartz/calcite vein			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 185'-190'	685	tr	
	191'8"-192'2"-quartz/calcite vein			
	-undeterminable contact			
	-trace pyrite			
	AT: 190'-195'	686	tr	
197'-224'8"	fine grained grey-green intermediate volcanic			
	-possible tuffaceous zone			
	-very slightly carbonated			
	-fresh appearance			
	-no shearing			
	-quartz stringer randomly oriented			
	-trace pyrite			
	AT: 195'-200'	687	tr	
	202'-202'1"-quartz veinlet			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT: 200'-205'	688	tr	
	205'-210'	689	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	210'-215'	690	0.003
	215'-220'	691	0.126
	220'-225'	692	0.008
224'8" - 290'	- fine grained dark green mafic volcanic		
	- contacts; undeterminable bottom, 35°-40° top		
	- slightly to moderately carbonated		
	- moderate amount of calcite stringers that are randomly oriented		.103/15'
	- no shearing		
	- trace pyrite		
	- trace chalcopyrite		
	224'8"-225'10" - quartz/calcite system		
	- possible infilling of a fault zone		
	- trace pyrite		
	AT: 225'-230'	693	0.172
	230'-235'	694	tr
	235'-240'	695	0.009
	240'-245'	696	tr
	245'-250'	697	tr
	250'-255'	698	tr
	255'-260'	699	tr
	260'-265'	700	tr
	265'-270'	701	tr
	270'-275'	702	tr
	275'-280'	703	tr

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	280'1"-280'3"- quartz/calcite vein			
	-contacts: 70° top, 70° bottom			
	-non-mineralized			
	AT: 280'-285'	704	tr	
	285'-290'	705	0.012	
290'-	- fine to medium grained			
486'7"	grey green to green intermedicite to mafic volcanic			
	- gradational contact			
	- slightly carbonated			
	- chlorite stringers present			
	- no shearing			
	- trace pyrite			
	AT: 290'-295'	706	tr	
	295'-300'	707	tr	
	300'-305'	708	tr	
	305'-310'	709	tr	
	310'-315'	710	0.008	
	315'-320'	711	tr	
	320'-325'	712	tr	
	325'-330'	713	tr	
	330'-335'	714	tr	
	335'-340'	715	tr	
	340'-345'	716	tr	
	345'-350'	717	tr	
	350'-355'	718	tr	
	355'-360'	719	tr	
	358'-390'- fragmental			
	possible flow top breccia			
	AT: 360'-365'	720	tr	

DIAMOND DRILL LOG

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LOCATION
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DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	365'-370'	721	tr	
	370'-375'	722	tr	
	376'4"-378'-calcite vein			
	-undeterminable contact			
	-non-mineralized			
	AT: 375'-380'	723	tr	
	380'-385'	724	0.029	
	385'-390'	725	tr	
	390'-403'-possible fault			
	zone			
	-abundant ground			
	-highly carbonated			
	AT: 390'-395'	726	tr	
	395'-400'	727	tr	
	400'-405'	728	tr	
	405'-410'	729	tr	
	410'-415'	730	tr	
	415'-420'	731	0.003	
	420'-425'	732	tr	
	425'-430'	733	tr	
	430'-435'	734	tr	
	435'-457'-gabbro			
	-contacts 40° top, undeter-			
	minable bottom			
	-slightly carbonated			
	-trace pyrite			
	AT: 435'-440'	735	tr	
	440'-445'	736	tr	
	445'-450'	737	tr	
	450'-455'	738	tr	
	455'-460'	739	tr	
	460'-465'	740	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	465'-470'	741	tr	
	474'-474'4" - quartz vein			
	- contacts: 70° top, 70° bottom			
	- tourmaline stringers			
	- trace pyrite			
	AT: 470'-475'	742	tr	
	475'-480'	743	tr	
	480'-485'	744	tr	
488'7"-590'	- gabbro			
	- contacts: 45° top, undetermin-			
	able bottom			
	- fresh appearance			
	- slightly carbonated			
	- trace pyrite			
	AT: 485'-490'	745	tr	
	490'-495'	746	tr	
	495'-500'	747	tr	
	500'-505'	748	tr	
	505'-510'	749	tr	
	510'-515'	750	tr	
	515'-520'	751	tr	
	520'-525'	752	tr	
	525'-530'	753	tr	
	530'-535'	754	tr	
	535'-540'	755	tr	
	540'-545'	756	tr	
	545'-550'	757	tr	
	550'-555'	758	0.006	
	555'-560'	759	0.003	
	560'-565'	760	0.003	
	568'7"-568'11" - epidote/calcite			

DIAMOND DRILL LOG

DDH #32

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LOCATION
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DISPOSITION OF CORE DRILLED BY

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	quartz vein			
	- undeterminable contacts			
	- non-mineralized			
	At: 566'-570'	761	0.003	
	573'3"-573'8" - epidote/calcite/quartz/chlorite vein			
	- contacts, 60° top, 50° bottom			
	- non-mineralized			
	At: 570'-575'	762	tr	
	575'-580'	763	0.003	
	580'-585'	764	0.003	
	585'-590'	765	tr	
590'-736'	fine to medium grained grey green intermediate to mafic volcanic			
	- gradation contacts			
	- moderate to highly carbonated			
	- abundant calcite stringers that are randomly oriented			
	- no shearing			
	- trace disseminated pyrite			
	At: 590'-595'	766 → 767	tr	
	~~595'-600'~~ 600'-605'	769	tr	
	605'-610'	770	tr	
	610'-615'	771	tr	
	615'-620'	772	tr	
	620'-625'	773		
	625'-630'	774	tr	
	633'8"-634'-quartz vein			

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 70° top, 70° bottom			
	-carbonate alteration			
	-trace pyrite associated with both contacts			
	AT : 630'-635'	775	tr	
637'8"-637'10"- fault zone				
	-contacts; 50°			
	-soft gouge			
	-abundant calcite			
	AT : 635'-640'	776	tr	
	640'-645'	777	tr	
	645'-650'	778	tr	
	650'-655'	779	tr	
655'2"-655'7"- quartz stringer				
	-contacts; 26° top, 20° bottom			
	-non-mineralized			
659'2½"-672'- major fault				
	-30° top (contact)			
	-cataclastic breccia			
	-abundant soft gouge			
	-abundant calcite/ chlorite alteration			
	-trace pyrite mineralization			
	-trace to 5% pyrite associated with and proximal to lower contact.			
	AT : 655'-660'	780	tr	
	660'-665'	781		
	665'-670'	782	0.070	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	670'-675'	783	0.035
	675'-680'	784	tr
	668'1"-668'3"-quartz vein		
	-undeterminable contact		
	-non-mineralized		
	675'7"-675'7½"-quartz stringer		
	-undeterminable contact		
	-trace pyrite		
	676'-676'½"-quartz stringer		
	-contacts, 75° top, 75° bottom		
	-non-mineralized		
	677'3"-677'4"-quartz veinlet		
	-contacts, 70° top, 70° bottom		
	-trace pyrite associated with both contacts		
	681'-683'-shearing at 15°		
	AT: 680'-685'	785	tr
	686'-686'9"-calcite vein		
	-contacts, 70° top, 70° bottom		
	-non-mineralized		
	686'8"-fault cross-cutting calcite vein		
	-contact, 45°		
	-soft gouge		
	AT: 685'-690'	786	tr
	690'-695'	787	tr
	695'8"-697'-quartz vein		
	-undeterminable contact		
	-tourmaline stringer		
	-calcite stringers		

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- non-mineralized			
	697'7"-697'8"- quartz veinlet			
	- contacts; 75° top, 75° bottom			
	- non-mineralized			
	698'-698'3"- quartz vein			
	- contacts; 60° top, 60° bottom			
	- non-mineralized			
	AT: 699'-700'	788	tr	
	702'7"-703"- quartz/epidote vein			
	- undeterminable contacts			
	- non-mineralized			
	AT: 700'-705'	789	tr	
	705'-710'	790	tr	
	710'2½"-710'2¾"- quartz stringer			
	- contacts; 80° top, 80° bottom			
	- non-mineralized			
	713'3½"-713'7"- quartz vein			
	- contacts; 70° top, 70° bottom			
	- tourmaline stringers			
	- non-mineralized			
	713'11"-714'2½"- quartz vein			
	- contacts; 75° top, 75° bottom			
	- tourmaline stringers			
	- non-mineralized			
	AT: 710' - 715'	791	tr	
	715' - 720'	792	tr	
	723'3"-723'8"- quartz vein			
	- contacts; 70° top, 70° bottom			
	- non-mineralized			
	AT: 720'-725'	793	tr	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	725'-730'	794	0.003
	730'-735'	795	tr
735'-747'	fine grain very dark green mafic volcanic - moderately to highly carbonated - chlorite alteration - minor amounts of calcite stringers - no shearing - 1 to 3% disseminated subhedral fine to medium grained pyrite		
	AT: 735'-740'	796	tr
	740'-745'	797	tr
	745'-747'	798	tr
	HOLE ENDS AT 747'		
	FEBRUARY 21, 1984		
	Ken Laquerre		

DIAMOND DRILL LOG

DDH# 33

JOHN KIRWAN & ASSOCIATES LTD.

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LOCATION DT Property
GRID REFERENCE 7+00E, 1+40S.
AZIMUTH DIP ANGLE -90°
DIP TESTS 0'=90°, 100'=90°, 200'=90°, 300'=90°
CORE BQ 400'=89°, 500'=89°, 600'=88°
DISPOSITION OF CORE DT Coreshack DRILLED BY Rolly

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-8'	- drill casing			
8'-84'6"	- fine grained dark green mafic volcanic			
	- gradational contact			
	- slightly to moderately carbonated			
	- moderate amount of calcite stringers randomly oriented			
	- chlorite alteration			
	- Fe staining present			
	- no shearing			
	- trace to 1% fine to medium grained disseminated pyrite			
	AT: 8'-10'	799	0.003	
	10'-15'	800	0.003	
	15'-20'	801	0.003	
	21'7"-21'7½"-quartz/calcite stringer			
	- contacts; 70° top, 70° bottom			
	- non-mineralized			
	AT: 20'-26'	802	0.003	
	25'11¼"-25"11¾"-quartz/calcite stringer			
	- contacts; 80° top, 80° bottom			
	- non-mineralized			
	26'10"-27'-quartz/epidote/calcite/Fe_2O_3 vein			
	- contacts; 75° top, 70° bottom			
	- non-mineralized			
	AT: 25'-30'	803	0.003	
	30'-35'	804	0.003	

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	35'-40'	805	0.003
	40'-45'	806	0.006
	45'-50'	807	0.003
	50'-55'	808	0.006
	55'-60'	809	0.003
	60'-65'	810	0.003
	65'-70'	811	0.009
	70'-75'	812	0.009
	75'-80'	813	0.009
	80'-85'	814	0.012
84'6"-217'	fine to medium grained grey green intermediate volcanic		
	- possible tuffaceous zone		
	- gradational contacts		
	- slightly carbonated		
	- fresh appearance		
	- minor amount of calcite stringers		
	- shearing present		
	- trace disseminated and coalesced pyrite		
	AT: 85'-90'	815	0.012
	90'-95'	816	0.009
	95'-100'	817	0.006
	100'-105'	818	0.006
	105'2"-105'6"-quartz vein		
	-undeterminable contacts		
	-trace to 1% medium grained disseminated subhedral pyrite		
	109'10"-111'-wall rock charact-		

DIAMOND DRILL LOG

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DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	crized by chlorite/talc			
	alteration			
	AT: 105'-110'	819	0.012	
	112'6"-112'7"-quartz veinlet			
	-contacts; 60° top, 60° bottom			
	-tourmaline present			
	-non-mineralized			
	AT: 110'-115'	820	0.012	
	116'1"-120'3"- wall rock char-			
	acterized by numerous			
	quartz stringes			
	-minor amount of talc/			
	sericite alteration ass-			
	ociated with quartz			
	-1 to 3% disseminated			
	subhedral medium			
	grained pyrite assoc-			
	iated with quartz			
	-trace chalcopyrite			
	AT: 115'-120'	821	0.012	
	120'-125'	822	0.003	
	125'-130'	823	0.006	
	130'-135'	824	0.006	
	135'-140'	825	Tr	
	140'-145'	826	0.006	
	147'7"-147'11"-quartz vein	W.B.B.V.S (2%)		
	-contacts; 35° top, 35° bottom	147'7"-151'6"		
	-trace pyrite associated			
	with both contacts			
	-trace chalcopyrite			
	AT: 145'-150'	827	0.006	
	150'7"-151'6"-quartz breccia			

DIAMOND DRILL LOG

DDH #33

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DIP TESTS
CORE
DRILLED BY

DISPOSITION OF CORE

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-undeterminable contacts		
	-25% volcanic fragments		
	-75% quartz		
	-serpentine-talc alteration within quartz		
	-trace pyrite		
	AT: 150'-155'	828	Tr
	155'-160'	829	0.006
	160'-165'	830	Tr
	165'-170'	831	0.006
	170'-175'	832	0.006
	175'-180'	833	0.006
	182'4"-182'10"-quartz vein		
	-undeterminable contacts		
	-talc/chlorite alteration		
	-non-mineralized		
	183'1"-183'3"-fault		
	-undeterminable contacts		
	-abundant soft gouge		
	-non-mineralized		
	-non-mineralized		
	AT: 180'-185'	834	0.006
	185'-190'	835	0.003
	191'5"-192'5"-quartz stringer system		
	-undeterminable contacts		
	-non-mineralized		
	192'7"-192'9"-quartz vein		
	-contacts, 70° top, 70° bottom		
	-non-mineralized		
	AT: 190'-195'	836	0.003
	195'-200'	837	0.003

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	202'-210' - wall rock characterized by shearing at ≈20°			
	AT: 200'-205'	838	0.003	
	205'-210'	839	0.003	
	210'-215'	840	0.006	
217'-269'6"	possible flow top breccia			
	- gradational top, bottom contact represented by a possible fault at 20°			
	- highly carbonated			
	- no shearing			
	- trace pyrite			
	AT: 215'-220'	841	0.003	
	220'-225	842	0.003	
	225'-230'	843	0.003	
	230'-235'	844	0.003	
	235'-240'	845	0.003	
	240'-245'	846	0.009	
	245'-250'	847	0.009	
	250'-255'	848	0.006	
	255'-260'	849	0.003	
	264'4"-265'8" - fault			
	- contacts; 10° top, 10° bottom			
	- soft gouge			
	- abundant serpintine-talc alteration			
	AT: 260'-265'	850	0.006	
269'6"-460'	fine grained green grey intermediate volcanic			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-gradational contact			
	-shearing at greater depths			
	-trace medium to coarse grained disseminated pyrite			
	AT: 265'-270'	851	0.006	
	270'-275'	852	0.006	
	275'-280'	853	0.008	
	280'-285'	854	0.006	
	285'-290'	855	0.009	
	290'-295'	856	0.006	
	295'-300'	857	0.006	
	300'-305'	858	0.006	
	304'10½"-304'10¾"- calcite stringer			
	-contacts: 70° top, 70° bottom			
	- trace chalcopyrite associated within stringer			
	- trace pyrite associated with both contacts			
	AT: 305'-310'	859	0.006	
	310'-315'	860	0.006	
	314'-435 - wall rock characterized by shearing at 320-25°			
	-slightly carbonated			
	- trace to 1% medium to coarse grained disseminated pyrite			
	- trace "stretched" pyrite associated with shear planes			
	- pale brown (ankerite?)			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	alteration associated within shear planes			
	AT: 315'-320'	861	0.006	
	320'-325'	862	0.009	
	325'-330'	863	0.006	
	330'-335'	864	0.006	
	336'6"-355'- wall rock characterized by kink banding (crenulation folds) - increase in quartz - 2 to 5% disseminated coarse grained py - 1-2% "stretched" pyrite associated with shear planes			
	338'1"-338'4"- quartz vein - contacts; 30° top, 30° bottom - trace pyrite associated with both contacts			
	AT: 335'-340'	865	0.017	
	340'1"-340'6"- quartz vein - contacts; 70° top, 70° bottom - trace pyrite associated with both contacts	866	0.020	
	AT: 340'-345'			
	349'2"-349'2¾"- quartz stringer - contacts; 70° top, 70° bottom - non-mineralized			
	AT: 345'-350'	867	0.018	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	350'-355'	868	0.003
	355'-360'	869	0.009
	363'10"-364'2"-quartz vein		
	-contacts; 50° top, 50° bottom		
	- non-mineralized		
	AT: 360'-365'	870	0.009
	365'-370'	871	0.029
	372'6"-374"-abundant calcite/talc/soft gouge		
	- possible fault		
	AT: 370'-375'	872	0.009
	375'-380'	873	
	380'-385'	874	
	387'9"-388'4"-probable fault		
	-abundant ground		
	- soft gouge present		
	- fault at 45°		
	- trace pyrite		
	AT: 385'-390'	875	0.003
	390'-395'	876	0.003
	395'-400'	877	0.02
	402'-402'1"-quartz veinlet	W.G.B.U.S (20%)	
	-contacts; 80° top, 80° bottom	402'-422'7"	
	- non-mineralized		
	403'2"-403'4"-quartz stringer		
	-contacts; 40° top, 40° bottom		
	- non-mineralized		
	AT: 400'-405'	878	0.015
	405'10"-406'-quartz stringer		
	-contacts; 20° top, 20° bottom		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	406½"-406'8"-quartz stringer			
	-contacts; 15° top, 15° bottom			
	-trace pyrite associated with upper contact			
	406'9-408'9"-quartz breccia			
	-undeterminable top, ±70° bottom			
	-30% volcanic fragments			
	-70° quartz			
	-abundant amounts of talc/chlorite alteration			
	-trace pyrite associated with quartz/volcanic fragment contact			
	AT: 405'-410'	879	0.009	
	410'7½"-411'2"-quartz stringer			
	-contacts; 25° top, 25° bottom			
	-non-mineralized			
	412'6"-412'8½"-quartz vein			
	-contacts; 65° top, 65° bottom			
	-non-mineralized			
	417'1"-417'2"-quartz veinlet			
	-contacts; 80° top, 80° bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-non-mineralized			
	AT: 410'-415'	880	0.015	
	418'8"-418'9"-quartz veinlet			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 415'-420'	881	0.006	
	422'3"-422'7"-quartz vein			
	-contacts; 25° top, 25° bottom			
	-trace to 1% disseminated pyrite			
	AT: 420'-425'	882	0.009	
	425'-430'	883	0.006	
	430'-435'	884	0.009	
	435'-440'	885	0.012	
	440'-445'	886	0.009	
	445'-450'	887	0.006	
	450'-455'	888	0.006	
	457'-460'-shearing at 30°			
	-ground common			
	-abundant amounts of calcite			
	AT: 455'-460'	889	0.003	
460'-655'-	fine grained green mafic volcanic			
	-contacts; 35° top, gradational bottom?			
	-slightly to moderately carbonated			
	-moderate amount of randomly oriented calcite stringers			
	-chlorite stringers common			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-no shearing			
	-sporadic distribution of subrounded calcite grains			
	-trace disseminated pyrite			
	AT 460'-465'	890	0.006	
	465'-470'	891	0.009	
	470'-475'	892	0.012	
	475'-480'	893	0.012	
	480'-485'	894	0.009	
	485'-490'	895	0.012	
	490'-495'	896	0.009	
	495'-500'	897	0.012	
	499'11"-500'3"-quartz vein			
	-contacts, 70°top, 70°bottom			
	-purple impurity - associated with quartz- possible flourite impurity.			
	AT: 500'-505'	898	0.009	
	505'-510'	899	0.006	
	509'-512'-possible fault			
	-undeterminable contacts			
	-abundant ground			
	-trace pyrite			
	512'5"-513'-possible fault			
	-calcite/chlorite/talc alteration			
	-soft gouge			
	AT: 510'-515'	900	0.006	
	515'-520'	901	0.003	
	522'-522'3"-quartz vein			
	-contacts, 75°top, 75°bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	-abundant pale brown (Cankerite?) alteration		
	-non-mineralized		
	AT: 520'-525'	902	0.003
	527'-528'- possible fault		
	-abundant ground		
	-undeterminable contact		
	521'-570'- increase in chlorite stringers		
	-highly carbonated?		
	-1-2% pyrite associated with stringers		
	AT: 525'-530'	903	0.009
	530'-535'	904	0.009
	535'-540'	905	0.009
	540'-545'	906	0.006
	545'-550'	907	0.003
	550'-555'	908	0.003
	555'-560'	909	0.003
	560'-565'	910	0.003
	565-570'	911	0.003
	570'-575'	912	0.006
	575-580'	913	0.006
	580'-585'	914	0.006
	585'-590'	915	0.006
	590'-595'	916	0003
	595'-600'	917	0.006
	599'-601'6"- calcite/quartz/chlorite vein system		
	-undeterminable contacts		
	-highly irregular		
	-highly carbonated		
	-trace pyrite		
	AT: 600'-605'	918	0.006

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	606'-607' possible fault			
	-undeterminable contact			
	-soft gouge present			
	AT: 605'-610'	919	0.012	
	612'10"-613'4" - quartz/calcite			
	stringer system			
	-undeterminable cont-			
	acts			
	- trace pyrite			
	AT: 610'-615'	920	0.012	
	615'-620'	921	0.009	
	620'-625'	922	0.009	
	625'-636' - numerous small			
	right hand faults with			
	± 60° contacts.			
	AT: 625'-630'	923	0.009	
	630'-635'	924	0.009	
	635'-640'	925	0.009	
	644'-647' - possible fault			
	-undeterminable contact			
	-abundant ground			
	-calcite alteration			
	-ground/soft gouge at			
	646'6"-647'			
	AT: 640'-645'	926	0.018	
	645'-650	927	0.009	
	650'-655'	928	0.006	
	HOLE ENDS AT 655'			
	March 3rd, 1984			
	Ken Lapierre			

DIAMOND DRILL LOG

DDH#34

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LOCATION DT
GRID REFERENCE 7+20E, 2+20S
AZIMUTH DIP ANGLE -90°
DIP TESTS 0'=90°, 100'=90°, 200'=90°, 300'=90°, 400'=85°, 500'=87°
CORE BQ
DISPOSITION OF CORE DT Coreshack DRILLED BY Rolly

FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
0-11'	-drill casing			
11'-37'	-fine grained dark green mafic volcanic			
	- gradational contacts			
	- moderately-highly carbonated			
	- moderate amount of calcite stringers			
	- no shearing			
	- trace to 1% disseminated subhedral pyrite			
	AT: 11'-15'	929	0.006	
	15'-20'	930	0.006	
	20'-25'	931	0.003	
	25'-30'	932	0003	
	34'4-37' - possible fault			
	- ≅10°			
	- serpentine-talc/chlorite/calcite alteration			
	AT: 30'-35'	933	0.012	
	35'-40'	934	0.006	
37'-112'	-fine to medium grained green grey to grey silicified intermediate volcanic			
	- contacts; faulted at top, gradational bottom			
	- slightly carbonated moderate amount of siderite alteration			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- no shearing - trace to 4% subhedral medium to coarse grained disseminated pyrite - pyrite stringers common 37'9" - 37'11" = wall rock characterized by siderite alteration AT : 40' - 45'	935	0.006	
	45'1" - 45'6" - siderite alteration - trace pyrite AT : 45' - 50'	936	0.006	
	51' - 54'3" - wall rock characterized by siderite alteration - minor quartz stringers - trace to 2% pyrite AT : 50' - 55'	937	0.003	
	56' - 56'4" - wall rock characterized by siderite alteration - trace pyrite			
	57' - 57'6" - wall rock characterized by siderite alteration - trace pyrite			
	59' - 59'8" - wall rock characterized by siderite alteration - calcite stringers - trace pyrite			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	AT: 55'-60'	938	0.009	
	60'-62'7"- wall rock characterized by siderite alteration -minor amounts of calcite stringers			
	AT: 60'-65'	939	0.012	
	65'-70'	940	0.006	
	72'9½"-72'10"- wall rock characterized by siderite alteration - trace pyrite			
	AT: 70'-75'	941	0.006	
	75'-80'	942	Tr	
	79'5"-79'7"- wall rock characterized by siderite alteration -trace disseminated subhedral pyrite			
	80'-95' - 1-5% subhedral medium to coarse grained pyrite			
	82'-82'3"- quartz vein -contacts; 45° top, 45° bottom - siderite/calcite alteration -trace subhedral pyrite	W.Q.V.S (3%) 82' - 89.6"		
	82'8½"-82'9"- quartz stringer - contacts; 90° top, 90° bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-trace pyrite asso- ciated with both contacts.			
	82'10"-83' quartz veinlet -contacts; 50° top, 50° bot- tom - trace chalcopyrite and pyrite associ- ated with both con- tacts			
	83'5½"-83'5¾"-quartz strin- gers -contacts; 80° top, 80° bottom - trace pyrite ass- ociated with both contacts			
	83'11"-83'11½"-quartz str- inger -contacts; 65° top, 65° bottom -trace pyrite ass- ociated with both contacts			
	84'1"-84'3½"-quartz vein- let -contacts; 50° top, 50° bottom - trace disseminated subhedral pyrite ass- ociated with both contacts			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	84'11½"-85'-quartz stringer			
	-contacts, 75° top, 75° bottom			
	-non-mineralized			
	AT: 80'-85'	943	0.029	
	86'4"-86'9"-quartz stringer system			
	-undeterminable contacts			
	-talc alteration			
	-trace pyrite			
	87'1"-87'4"-quartz stringer			
	-contacts, 45° top, 45° bottom			
	-talc alteration			
	-trace pyrite			
	87'9"-89'6"-quartz stringer system			
	-undeterminable contacts			
	-talc alteration			
	-trace-5% pyrite associated within wall rock and with wall rock/quartz contacts			
	AT: 85'-90'	944	0.044	
	90'9"-95'2"-possible cataclastic breccia			
	-abundant calcite grains			
	-undeterminable top, ~20° bottom			
	-quartz common			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- talc alteration			
	- sericite alteration			
	- moderately to highly carbonated			
	- 2 - 4% subhedral pyrite			
	AT: 90' - 95'	945	0.015	
	96' - 98' - possible fault zone			
	- abundant ground			
	98'6" - 100'5" - wall rock characterized by siderite alteration			
	AT: 95' - 100'	946	0.003	
	102'2" - 105'2" - calcite/quartz/epidote vein system			
	- contacts; 330°, undeterminable bottom			
	- trace pyrite			
	- trace chalcopyrite			
	AT: 100' - 105'	947	0.003	
	105' - 110'	948	0.003	
112' - 157'	- fine grained dark green mafic volcanic			
	- gradational contacts			
	- moderately carbonated			
	- chlorite alteration			
	- no shearing			
	- trace disseminated pyrite			
	AT: 110' - 115'	949	0.003	
	115' - 120'	950	0.006	
	121'9" - 121'10" - quartz veinlet			
	- contacts; 65° top, 65° bottom			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-carbonate stringers			
	-non-mineralized			
	AT: 120'-125'	951	2006	
	127'-127'½"-quartz/calcite stringers			
	129'8"-130'½"-quartz/calcite/chlorite vein			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 125'-130'	952	tr	
	130'-135'	953	tr	
	137'2½"-137'4½"-quartz vein			
	-contacts; 85° top, 85° bottom			
	-pink coloured impurity within quartz			
	-minor amount of chlorite			
	-non-mineralized			
	AT: 135'-140'	954	tr	
	140'7"-144'6"-wall rock characterized by numerous irregular trending quartz stringers, veinlets and veins			
	-calcite stringers associated within quartz			
	-chlorite alteration			
	-non-mineralized			
	AT: 140'-145'	955	tr	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	147'5"-148'-quartz vein			
	-contacts, 30° top, 30° bottom			
	-carbonate alteration			
	-non-mineralized			
	AT: 145'-150'	956	tr	
	150'-155'	957	tr	
157'-386'+	fine to medium grained grey silicified intermediate volcanic			
	- gradational contact			
	- slightly carbonated			
	- shearing present locally throughout zone			
	- sericite alteration present with shear planes			
	- trace disseminated medium grained subhedral pyrite			
	- trace "stretched" pyrite associated with shear planes			
	157'7½"-158'1"-epidote/quartz vein			
	-contacts, 60° top, 60° bottom			
	-non-mineralized			
	AT: 155'-160'	958	0.009	
	160'-165'	959	tr	
	167'8"-264'-wall rock characterized by shearing at 20° to 25°			
	-chlorite stringers			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	oriented similar to shear planes -quartz stringers oriented similar to shear planes -actinolite associated within shear planes -trace pyrite			
	AT: 165'-170'	960	tr	
	170'-175'	961	tr	
	175'-180'	962	tr	
	180'3"-180'7"-quartz veinlet -contacts; 30° top, 30° bottom -non-mineralized			
	AT: 180'-185'	963	tr	
	185'-190'	964	0.009	
	190'-195'	965	0.006	
	195'-200'	966	0.012	
	200'-204'1"-quartz vein -contacts; 25° top, 15° bottom -chlorite/carbonate alteration associated proximal to bottom contact -minor amounts of tourmaline stringers associated proximal to bottom contact -moderate amount of subhedral medium			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	grained pyrite assd-			
	ciated with bottom			
	contad			
	AT: 200'-202'6"	967	NIL	
	204'2"-204'3½"-quartz str-			
	inger			
	-undetermnable contad			
	-abundant pyrite ass-			
	ociated with both			
	contacts			
	- trace chalcopyrite			
	and trace pyrite ass-			
	ociated within quartz			
	AT: 202'6" -205'	968	0.241	
	205'-205'7"-quartz stringer			
	-contacts; 310 top, 310 bot-			
	tom			
	-abundant pyrite ass-			
	ociated with both			
	contacts			
	- trace chalcopyrite			
	associated within			
	quartz			
	206'2"-206'9"-wall rock			
	characterized by 2			
	-5% medium to coa-			
	rse grained disse-			
	minated pyrite			
	206'9"-210'3"-quartz vein			
	-contacts; 25° top, 25° bot-			
	tom			
	- minor amounts (3%) of			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	volcanic fragments associated within quartz - chlorite alteration - minor carbonate alteration - trace subhedral disseminated pyrite associated with volcanic fragments - trace pyrite associated with chlorite stringers - **VISIBLE GOLD** associated with chlorite stringers and within quartz at ±209'		
	AT: 205'-207'6"	969	0.125
	209'7½"-209'9" - fault - 45° - soft gouge		
	AT: 207'6"-210' **V.G.**	970	2.410
	210'7"-211'7" - quartz vein - contacts; undeterminable top, 45° bottom - fracture infilled with calcite - minor amounts of chlorite alteration - trace pyrite associated with chlorite alteration		
	212'-212'6" - quartz vein		

.827 / 10'

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; undeterminable top, 45° bottom			
	-fractures infilled with calcite			
	-abundant pyrite mineralization associated with lower contact			
	AT: 210' - 212' 6"	971	0.533	
	212'6" - 212'9" - wall rock characterized by quartz stringers			
	- trace pyrite			
	212'9" - 213'7" - quartz vein			
	- contacts; 45° top, 45° bottom			
	- fractures within quartz infilled with calcite			
	- trace subhedral medium grained pyrite associated with quartz			
	214' - 214'2" - quartz vein			
	- undeterminable contacts			
	- trace pyrite associated with both contacts			
	214'3" - 214'4½ - quartz vein			
	- contacts; 80° top, 80° bottom			
	- abundant pyrite associated with both contacts			
	214'7" - 214'10" - quartz vein system			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 380° top, 380° bottom			
	-abundant chlorite/calcite alteration			
	- trace pyrite			
	AT : 212'6" - 215'	972	0.055	
216'7" - 216'11" - quartz stringer				
	-contacts; 335° top, 335° bottom			
	- trace pyrite			
	AT : 215' - 217'6"	973	0.034	
219'1" - 219'6" - quartz/calcite vein				
	-contacts; 365° top, 365° bottom			
	-chlorite alteration			
	-talc alteration			
	- trace pyrite			
	AT : 217'6" - 220'	974	0.020	
222'9½" - 222'11" - quartz veinlet				
	-contacts; 45° top, 45° bottom			
	-non-mineralized			
	AT : 220' - 225'	975	tr	
222'11½" - 223' - quartz veinlet				
	-contacts, undeterminable			
	-veinlet offset (½") by left hand fault			
	-non-mineralized			
225'1" - 225'7" - probable fault				
	-abundant soft gouge, calcite			
	- trace pyrite			
227'6½" - 227'8" - quartz vein				

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-contacts; 80° top, 90° bottom			
	-non-mineralized			
	AT: 225'-230'	976	0.012	
	230'-235'	977	0.006	
239'6"-242'6"-wall rock characterized by abundant quartz stringers that are randomly oriented				
	-1-2% disseminated medium to coarse grained pyrite			
	AT: 235'-240'	978	0.009	
241'5"-241'6"-quartz veinlet				
	-contacts; 90° top, 90° bottom			
	-non-mineralized			
	AT: 240'-245'	979	0.02	
248'7"-248'8"-quartz vein				
	-undeterminable top, 50° bottom			
	-trace-2% pyrite associated with lower contact			
	AT: 245'-250'	980	0.012	
250'8½"-250'10"-quartz veinlet				
	-undeterminable contacts			
	-non-mineralized			
252'4"-252'6½"-quartz veinlet				
	-contacts; 140° top, 140° bottom			
	-non-mineralized			
	AT: 250'-255'	981	0.009	
258'1½"-258'6"-quartz/calcite vein				
	-fractured appearance			
	-non-mineralized			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	259'6"-259'6½"-quartz stringer			
	-contacts; 75° top, 75° bottom			
	-non-mineralized			
	259'7"-259'7½"-quartz stringer			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	AT: 255'-260'	982	0.012	
	261'4"-262'2"-quartz vein			
	-undeterminable contacts			
	-possible fault zone			
	-non-mineralized			
	AT: 260'-265'	983	0.012	
	269'8½"-269'9½"-quartz veinlet			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT: 265'-270'	984	0.006	
	270'-275'	985	0.003	
	275'-280'	986	0.003	
	280'9"-280'10"-quartz stringer			
	-contacts; 45° top, 45° bottom			
	-non-mineralized			
	AT: 280'-285'	987	0.006	
	289'6"-289'6½"-quartz stringer			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT: 285'-290'	988	0.006	
	290'-295'	989	tr	
	298'-298'2½" quartz vein			
	-contacts; 90° top, 90° bottom			
	-calcite/chlorite alteration			
	AT: 295'-300'	990	0.009	
	300'-305'	991	0.006	

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	305'-310'	992	0.003
	310'-315'	993	tr
	315'10"-315'11"-quartz veinlet		
	-contacts; 70° top, 70° bottom		
	-non-mineralized		
	AT: 315'-320'	994	tr
	320'9½"-320'9¾"-quartz stringer		
	-contacts; 75° top, 75° bottom		
	-trace pyrite associated with both contacts		
	321'2"-321'2½"-quartz veinlet		
	-contacts; 75° top, 75° bottom		
	-chlorite alteration		
	-moderate amount of coarse grained pyrite associated with both contacts		
	AT: 320'-325'	995	0.009
	327'8"-327'9½"-quartz vein		
	-contacts; 80° top, 80° bottom		
	-non-mineralized		
	AT: 325'-330'	996	0.003
	330'-335'	997	tr
	335'7"-336'4"-quartz vein		
	-contacts; 320° top, 320° bottom		
	-randomly oriented stringers of tourmaline		
	-carbonate stringers		
	-chlorite patches present		
	-non-mineralized		
	337'-338'-wall rock characterized by randomly oriented quartz stringers		

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	- trace pyrite			
	AT: 335'-337'6"	998	0.022	
	338'-338'3"-quartz vein			
	-contacts; 60° top, 60° bottom			
	-trace pyrite associated with upper contact			
	338'4"-338'5½"-quartz veinlet			
	-contacts; 60° top, 60° bottom			
	-trace pyrite associated with upper contacts			
	338'8"-339'-quartz vein			
	-contacts; 60° top, 60° bottom			
	-chlorite/calcite alteration with apparent 60° orientation within quartz vein			
	AT: 337'6"-340'	999	0.021	
	339'9"-345'2"-quartz breccia	O.B.S. 339'9"-345'2"		
	contacts; 70° top, 40° bottom			
	-75% quartz, 25% volcanics			
	-abundant chlorite/carbonate			
	-tourmaline stringers			
	-serpentine-talc alteration			
	-trace-2% fine to medium grained subhedral pyrite associated with chlorite/carbonate alteration			
	-trace chalcopyrite associated with alteration			
	-**VISIBLE GOLD** associated with;			
	(1) chlorite/carbonate alt-			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	foration at 341'6½"			
	@within quartz at 341'8½"			
	AT : 340'-342'6" V.G.	1000	0.175	
	342'6"-345'	7001	0.051	
	345'3"-345'5"-quartz vein			
	-irregular contacts			
	-trace medium to coarse grained subhedral pyrite associated with lower contacts			
	346'½"-346'1½"-quartz stringer			
	-contacts; 80° top, 80° bottom			
	-½" displacement by right hand fault at 5°			
	347'2½"-347'3"-quartz stringer			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	347'8"-349'9"-fault			
	-50°			
	-infilled with quartz			
	-talc alteration			
	-non-mineralized			
	AT : 345'-347'6"	7002	NIL	
	347'6"-350'	7003	NIL	
	350'-357'-wall rock with sporadic shearing at 25°			
	351'1½"-351'3"-quartz vein			
	-contacts; 85° top, 85° bottom			
	-non-mineralized			
	AT : 350'-356'	7004	0.006	
	359'2"-359'6½"-quartz vein			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	-calcite, serpentine-talc alteration			
	-trace pyrite associated with tourmaline stringer			
	359'7" - 359'7¾" - quartz veinlet			
	-contacts; 80° top, 80° bottom			
	-non-mineralized			
	359'9¼" - 360' - quartz vein			
	-contacts; 75° top, 75° bottom			
	AT: 355' - 360'	7005	0.003	
	360' - 365'	7006	0.003	
	365' - 370'	7007	0.012	
	370' - 375'	7008	0.003	
	374' - 379' - wall rock characterized by silicification (quartz stringers) that are randomly oriented			
	AT: 375' - 380'	7009	0.023	
	380' - 385'	7010	0.020	
386' - 637'	fine grained green intermediate to mafic volcanic			
	- possible fragmental or possible precense of pillow selvages			
	- gradational contacts			
	- slightly to highly carbonated			
	- abundant very small randomly oriented calcite stringers			
	- precence of calcite grains			
	- moderate amount of chlorite			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS	
	stringers			
	- no shearing			
	- trace disseminated sub-hedral medium grained pyrite			
	- locally up to 3% subhedral medium grained pyrite associated with chlorite stringers			
	At: 385'-390'	7011	0.012	
	390'-395'	7012	0.006	
	395'-400'	7013	tr	
	400'-405'	7014	0.006	
	405'-410'	7015	0.006	
	410'-415'	7016	0.006	
	415'-420'	7017	0.009	
	420'-425'	7018	0.006	
	425'-430'	7019	0.006	
	430'-435'	7020	0.012	
	435'-440'	7021	0.009	
	440'-445'	7022	0.006	
	445'-450'	7023	0.006	
	450'-455'	7024	0.003	
	455-460'	7025	tr	
	460'-465'	7026	0.006	
	465'-470'	7027	0.02	
	473'-476'4" - possible fault ~320°			
	- abundant ground			
	- talc alteration			
	- lower contact associated with calcite vein			

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	AT: 470'-475'	7028	0.003
	475'-480'	7029	0.009
	480'-485'	7030	0.006
	485'-490'	7031	0.006
	490'-495'	7032	0.009
	495'-500'	7033	0.009
	502'7"-505'5"-fault zone		
	-undeterminable contacts		
	-abundant ground		
	-soft gouge, talc common		
	AT: 500'-505'	7034	tr
	505'5"-506'3½"-epidote/calcite/		
	quartz vein		
	-undeterminable top, 70°, bottom		
	-highly carbonated		
	-purple coloured alteration associated with calcite and quartz-possibly fluorite		
	AT:		
	505'-510'	7035	tr
	510'-515'	7036	0.006
	515'-520'	7037	0.003
	524'-524'½"-quartz stringer		
	-contacts 0°, 80° top, 80° bottom		
	-non-mineralized		
	AT: 520'-525'	7038	0.006
	525'-530'	7039	0.003
	530'-535'	7040	0.006

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FOOTAGE	DESCRIPTION	SAMPLE NO.	ASSAYS
	535' - 540'	7041	0.006
	540' - 545'	7042	0.003
	545' - 550'	7043	0.003
	550' - 555'	7044	0.006
	555' - 560'	7045	0.009
	560' - 565'	7046	0.003
	565' - 570'	7047	0.009
	570' - 575'	7048	0.006
	575' - 580'	7049	0.006
	580' - 585'	7050	0.009
	585' - 590'	7051	0.009
	590' - 595'	7052	0.012
	595' - 600'	7053	0.009
	600' - 605'	7054	0.006
	605' - 610'	7055	0.009
	610' - 615'	7056	0.009
	616' - 617': wall rock characterized by calcite/quartz stringers that are randomly oriented - trace pyrite		
	AT: 615' - 620'	7057	0.006
	620' - 625'	7058	0.012
	625' - 630'	7059	0.012
	630' - 635'	7060	0.006
	635' - 637'	7061	0.003
	HOLE ENDS AT 637' MARCH 8th, 1984		
	Ken Lapierre		