

1009NW0017 2.6395 MALLARD

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FINAL REPORT

on
THE 1983 EXPLORATION PROGRAM

on

Fifty one Unpatented Mining Claims

owned by

ADELINE INTERNATIONAL MINES LTD.

located in

MALLARD TOWNSHIP, PORCUPINE MINING DIVISION

ONTARIO, CANADA

RECTIVED

FEB 1 0 1984

MINING LANDS SECTION

February 5, 1984

David Constable, H.BSc., F.G.A.C. CONSTABLE CONSULTING INC. Sudbury, Ontario



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| Two Drill Hole Location Plans Scale 1" = 200 Three Drill Hole Sections Scale 1" = 100 | |

SUMMARY

Adeline International Mines, Ltd.'s (AIM Ltd.) property consists of fifty one (51) contiguous unpatented mining claims and thirteen (13) patented claims located in central Mallard township, Porcupine Mining Division. The property covers approximately 2560 acres and is accessible via the Eddy Paper Products Limited main haulage road and a series of bush roads. The subject group is located in the Swayze greenstone belt which is host to several gold deposits. The claim group is underlain by interbedded metavolcanic and metasediments which trend east-west and dip steeply southward at 60-80°. EM-VLF, magnetics and geology surveys were completed over the property in 1979-80. In late 1983 a diamond drilling and mechanical stripping program was completed and this report was assembled to summarize and, if warranted, to recommend a further gold exploration program. The 1983 program encountered gold values in felsic and intermediate tuffs in the western portion of the subject property with values of 0.181 ounces per ton gold over 3.0', 0.112 ounces per ton gold over 3.0', 0.340 ounces per ton gold over 1.0' and 0.131 ounces per ton gold over 1.0'.

A future exploration program has been recommended in this report to include lithogeochemistry, overburden or biogeochemistry and diamond drilling.

INTRODUCTION

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We have been asked to assemble this report by Mr. Arthur E. Kaplan, president of Adeline International Mines Ltd., Chicago, Illinois in order to summarize, assess and, if warranted, to recommend further exploration on the company's Mallard township property. Sources of material utilized in this report include Ontario assessment reports, publications and maps, in addition to recent unpublished results of the 1983 exploration report. The property consists of thirteen (13) patented and fifty-one (51) unpatented mining claims straddling the Opeepeesway River in central Mallard township, Porcupine Mining Division. Access is via the Eddy Paper Products Limited haulage road and a network of smaller bush roads. The claims are held in the name of Arthur E. Kaplan. This report deals only with the 1983 exploration program on the fifty-one (51) unpatented claims.

| Claim Number | Recording Date | Original Staker | Present Owner |
|-------------------|----------------|-----------------|------------------|
| P-548421 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548423 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548425 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548430 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548431 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548432 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548433 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548434 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548435 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548436 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548437 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548438 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548439 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-545440 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548442 | January 24/80 | S. M. Malouf | Arthur E. Kaplan |
| P-548450 | January 24/80 | J. D. Malouf | Arthur E. Kaplan |
| P-545484 | November 2/79 | T. Otter | Arthur E. Kaplan |
| P-545485 | November 2/79 | T. Otter | Arthur E. Kaplan |
| P-545486 | November 2/79 | T. Otter | Arthur E. Kaplan |
| P-565299 | August 28/80 | L. Ensley | Arthur E. Kaplan |
| P-565300 | August 28/80 | L. Ensley | Arthur E. Kaplan |
| P-565 30 1 | August 28/80 | L. Ensley | Arthur E. Kaplan |

TOTAL OF 51 CLAIMS

Figure 1 shows the claim block and the small inset map indicates the regional location of the claims. The block is located roughly 60 air miles southwest of Timmins and 100 air miles northwest of Sudbury at latitude 47° 42' 30" and longitude 82° 16' 30".

PROPERTY DESCRIPTION, LOCATION, ACCESS AND PHYSIOGRAPHY

The property, in addition to 13 patented claims, consists of 51 contiguous, unpatented claims held in the name of Arthur E. Kaplan (License # 43793). The claims are presently under extension until February 15th, 1984. The claim block may be further described:

| Claim Number | Recording Date | Original Staker | Present Owner |
|--------------|----------------|-----------------|--------------------------------------|
| P-544305 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544306 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544307 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544308 | November 2/79 | C. Martin | - |
| P-544309 | November 2/79 | C. Martin | Arthur E. Kaplan Arthur E. Kaplan |
| P-544310 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544311 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544312 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544313 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-544314 | November 2/79 | C. Martin | Arthur E. Kaplan |
| P-044314 | November 2/19 | C. Martin | Arthur E. Kapian |
| P-545427 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545428 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545429 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545430 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545431 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545432 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545433 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545434 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545435 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545436 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545437 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545438 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545439 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| P-545440 | October 10/79 | S. M. Malouf | Arthur E. Kaplan |
| | | | |
| P-545475 | November 2/79 | J. Shecapio | Arthur E. Kaplan |
| P-545476 | November 2/79 | J. Shecapio | Arthur E. Kaplan |
| | | | |
| P-545477 | November 2/79 | T. Otter | Arthur E. Kaplan |
| P-545478 | November 2/79 | T. Otter | Arthur E. Kaplan |
| P-545487 | November 2/79 | T. Otter | Arthur E. Kaplan |

Access is by paved highway 144 north from Sudbury or south from Timmins to the highway 560 turnoff. One can proceed westward on the turnoff on an all-weather haulage road towards the village of Ramsay. About 3.5 miles north of Ramsay is a four-corner intersection of bushroads. The north, fair-weather road leads to the property, a further distance of six miles to the bridge over the Opeepeesway River located in the centre of the property. Access in good weather is by two-wheeled vehicle, however a four-wheeled vehicle is recommended during foul weather.

AIM Ltd.'s Mallard township property has little topographic relief. Outcrop is scarce (2-3%) and the property is covered by a mixture of glacial outwash sands and swamps.

Soil cover is generally shallow (0-25 feet), however locally it can be over 100 feet deep.

Most of the property is covered with second growth jackpines, black spruce, poplars and scrubbrush. A few mature white pines are also present.

Drainage goes into the Opeepeesway River where it flows northward into the Arctic watershed.

The last observed glacial ice direction is southward.

The nearest major population centre is Chapleau to the northwest. Hydro would have to be brought into the property, water
is plentiful. Custom gold mills are located in Timmins, 110
road miles to the northeast.

GENERAL AND PROPERTY GEOLOGY

The AIM LTD. property is located in the Superior

Province of the Canadian Precambrian Shield. This area has

been an abundant producer of gold, silver and basemetals.

Specifically, the property lies within the Swayze Greenstone

Belt; an assemblage of volcanics, sediments and younger

intrusions; which lies between Timmins and Sudbury, west of

highway 144. The following is a stratigraphic column for the

area:

Diabasic Dykes (intrusive contact)

Mafic Intrusions (intrusive contact)

Felsic Intrusions (intrusive contact)

Temiskaming Sediments with Minor Volcanics (unconformity)

Archean Volcanics with Interbedded Sediments

The rocks in the belt strike N55°W and dip steeply north and south. The rocks have been folded, generally along axes parallel to subparallel to the regional strike. The folding is closed and generally has shallow (20-30°) plunges in either direction. Regional metamorphism is lower to upper greenschist facies.

The AIM Ltd. property conforms to the general description

given above. Specifically it contains intercalated, intermediate volcanic flows, coarse agglomerates, tuffs and metasediments.

Horizens of chemical sediments, such as iron formations

(sulfide and oxide facies) and cherts, are also observed near and on AIM Ltd.'s property.

The Swayze area has been explored as a spinoff from the Porcupine camp (Timmins) since the early 1900's. Most of the early work was for gold. The camp contains several minor old producers, but has yet to produce a major gold deposit, although the Orofino deposit is considering 1984 production from a deposit with one million tons of 0.17 ounces per ton gold.

Gold deposits in the belt include the following environments.

- (a) Gold in quartz veins related to shear zones and intrusions
 - (b) Gold in replacement zones in intrusions
- (c) Gold in sulfides disseminated along tuff/sediment horizens
- (d) Gold in chemical sediments (cherts and iron formations)

The AIM Ltd.'s property contains gold in environments

(a) and (c). Gold values of up to 0.25 ounces per ton over 11.0',

0.33 ounces per ton over 5.6' and 0.26 ounces per ton over 4.7'

have been located by trenching on the AIM Ltd. property (Dr. S. Malouf's Reports).

Earlier drilling on the AIM Ltd. property also reported intersections up to 0.21 ounces per ton gold over 13.5'.

Alteration generally found associated with the gold mineralization is carbonatization, pyritization, silicification and quartz veining.

PREVIOUS WORK

Work to date on the AIM Ltd. property has concentrated on the thirteen (13) patented claims, which are the site of the original gold showings. However, work was performed in 1980 over the fifty one (51) unpatented claims and consisted of:

- (a) Linecutting
- (b) Ground Magnetometry Survey
- (c) Electromagnetic Surveys (VLF):
 - (i) Cutler, Maine Station
 - (ii) Annapolis, Maryland Station (partial coverage)
- (d) Geological Survey (North Half of the Property)
- (e) Rock Geochemical Survey

The EM-VLF Surveys have delineated numerous conductive zones ranging from weak to very strong conductors. Most of the conductors are short and conformable; all the conductors are untested, except the main showing area. The magnetic

survey shows an area of 1000-1300 gamma relief with most of the area showing only 200-400 gamma relief. The magnetic survey delineates rock types, defines probable north-south faulting and suggests an extension of the main gold showing zone.

The geological survey described the rock type distribution and noted several areas of sulfide mineralization.

The rock geochemical survey sampled several old trenches and mineralized areas. The best result came from Trench # 15 which assayed 0.30 ounces per ton gold over 3.0'.

Similarly Trench # 10, on the unpatented mining claims, gave a value of 0.29 ounces per ton gold in a grab sample.

THE 1983 PROGRAM

The 1983 exploration program consisted of a 5000-foot diamond drill contract and extensive mechanical stripping in two areas. At the conclusion of the previous work AIM Ltd. had a property with gold showings known on the patented claims. The general geology was known, magnetic and EM-VLF coverage was nearly complete. The 1983 program attempted to test the stratigraphy, both east and west along strike from the gold showings known within the patented claims. My experience in this area indicated EM-VLF targets were of little help.

Magnetics were of some help, particularly to trace the iron formations as stratigraphic reference horizens. Some gold values were known in trenches on the unpatented claims, it remained to confirm the grades and depth-strike continuity of these zones.

Triangle Drilling Limited of Sudbury was contracted to do the drilling, 5000' of BQ core. Erana Mines Limited, also of Sudbury, did the mechanical stripping. The program commenced November 15th, 1983 and was completed by December 23, 1983; although the assay results were not completed until early February, 1984.

RESULTS AND CONCLUSIONS

A total of ten (10) holes were completed ranging from 400 to 650-foot depths. All holes were drilled at -450 dip. Hole AIM-83-1 to 4 tested the east side of the group while holes AIM-83-5 to 10 tested the western area. The results are summarized in the logs in this report. Two areas stand out; hole AIM-83-5 cut scattered gold values from 410.0' to 450.0' ranging from 0.054 ounces per ton gold to 0.340 ounces per ton gold. These values were confined to a sericitic felsic tuff and the quartz veins contained within the unit. Pyrite content throughout the unit varied from 2 to 5% usually as disseminates. Increasing pyrite content did not bear a direct relationship to the gold content however secondary quartz content appeared to be relatable to the gold content of the rock. The second hole with an interesting value was hole AIM-83-9 from 177.8' - 180.8' which graded 0.112 ounces per ton gold in a quartz vein-rich zone. This zone is coincident with the old trench No. 10 values of 0.29 ounces per ton gold (grab). This area was extensively stripped although surface sampling was not possible during 1983 due to the extensive snow cover.

The sections split and assayed in all the holes exhibited anomalous gold values of 0.009 to 0.032 ounces per ton gold. It seems reasonable to conclude:

- (a) That the AIM Ltd. Mallard township property is underlain by a metavolcanic and metasedimentary sequence generally anomalous in gold values from 200 ppbs. to 1000 ppbs.
- (b) That EM-VLF conductors were generally not explained by drilling and so probably have a surficial source.
- (c) The economic gold values appear unrelated to pyrite content but directly relatable to secondary quartz content.
- (d) Felsic and intermediate tuffs appear to be the best rock types to expect anomalous gold values.

RECOMMENDATIONS

The Mallard township property of AIM Ltd. remains a gold exploration bet. I recommend the following future exploration program:

I. <u>Lithogeochemistry</u>

- (a) A database should be established to ascertain what elements or major oxides can be related to the known gold showings both in the 1983 drill holes and on the patented claim gold showings.
- (b) Extensive rock sampling should be completed over the entire property to attempt to outline anomalous alteration halos.

II. Overburden Sampling or Biogeochemistry

- (a) A series of profiles should be completed across the known gold zones to ascertain the effectiveness and variables of each method.
- (b) The entire property should be covered by the method exhibiting the best profiles.

III. Diamond Drilling

- (a) A series of holes should be commenced to test the AIM-83-5 and 9 gold values plus the gold showings on the patented claims.
- (b) Additional footage will likely be necessary to test targets indicated by Phases I and II.

February 5, 1984 Sudbury, Ontario David Constrated M.BSc., F.G.A.C. CONSTABLE CONSULTING INC.

DAVID W. CONSTABLE

| DIAMOND D | RILL RECORD | LOGGED BY D. | Constable | | CONSTABLE CONSULTING INC. | |
|--------------------|------------------|--------------------------------|------------|--------------|------------------------------|---|
| PROPERTY KAPLAN - | MALLARD TOWNSHIP | BQ | CORE | | D.D.H. No. AIM-83-1 PAGE 1/7 | |
| LATITUDE 60 + 00 E | BEARING OF HOLE_ | GRID NORTH (036 ⁰) | STARTED | NOV. 20,1983 | CLAIM NoP.545435 | · |
| DEPARTURE 8 + 50 S | DIP OF HOLE | -45 ⁰ | COMPLETED_ | NOV. 22,1983 | DIRECTION AND DISTANCE FROM | |
| ELEVATION | DIP TESTS | NONE TAKEN | DEPTH | 500.0' | NE. CLAIM POST | |

| F00 | TAGE | DESCRIPTION | SAMPLE | | TAGE | SAMPLE | | | ASSAY | |
|------|-------|---|--------|------|------|--------|---|---|-------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | ТО | LENGTH | | | | |
| 0 | 12.0 | Casing | | | | | | | | |
| | | | | | | | | - | | |
| 12.0 | 18.3 | Mafic Tuff | | | | | _ | | | |
| | | Dark green, medium to coarse-grained, poorly bedded, | | | | | | | | |
| | | chloritic, biotitic, soft. | | | | | | | | |
| | | | | | | | | | | |
| 18.3 | 133.0 | Intermediate Tuff | | | | | | | | |
| | | Dark to medium green, fine-grained. finely to fairly well | | | | | | | | |
| | | bedded, traces of pyrite crystals. Bedding is at 64% to | | | | | | | | |
| | | C.A. chloritic and slightly sericitic. contains small | | | | | | | | |
| | | (21') sections of medium grained tuff. | | | | | | | | |
| | | Very narrow Py sections at 60.4', 69.8' and 72.8'. | | | | | | | | |
| | | Narrow white quartz at 81.0' and 82.0'. Veins are 2-4" wide | | | | | | | | |
| | | At 116.8' bedding is 55° to C.A. | | | | | | | | |

Sharp conformable out contact.

| DIA | MOND D | RILL RECOR | LOGGED BY _r | . Constable | e C(| ONSTABLE CONSULTING INC. | |
|-------------|-------------|-----------------|------------------|-------------|--------------|--------------------------|-------------------|
| PROPERTY | KAPLAN - MA | LLARD TOWNSHIP | | | | D.D.H. No.AIM-8 | 3-1 PAGE 2/7 |
| LATITUDE | 60 + 00 E | BEARING OF HOLE | Grid North (036 |) STARTED_ | NOV.20, 1983 | CLAIM No. | P-545435 |
| DEPARTURE_ | 8 + 50 S | DIP OF HOLE | -45 ⁰ | COMPLETE | NOV.22, 1983 | i Ni | AND DISTANCE FROM |
| ELEVATION _ | | DIP TESTS | None taken | DEPTH | 500.0' | NE. CLAIM | POST |

| | TAGE | DESCRIPTION | SAMPLE | | TAGE | SAMPLE | Au | ASSAY | |
|-------|-------|--|--------|--------|--------|--------|--------|-------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | |
| 133.0 | 159.5 | CHERT | 9079 | 1 33.0 | 135.0 | 2.0 | 0.010 | | |
| | | | 9080 | 135.0 | 138.0 | 3.0 | 0.015 | | |
| | | Grey to grey-white, fine-grained and finely-bedded, | 9081 | 1.38.0 | 141.0 | 3.0 | 0.015 | | |
| | | starts with 1.5' of graphitic chert then solid chert | 9082 | 141.0 | 144.0 | 3.0 | 0.008 | | |
| | | with 5-10% pyrite in beds and along cross-fractures. | 9083 | 144.0 | 1.47.0 | 3.0 | 0.009 | | |
| | | | 9084 | 147.0 | 150.0 | 3.0 | 0.008 | | |
| | | Sharp gradational out contact. | 9085 | 150.0 | 153.0 | 3.0 | 0.013 | | |
| | | | 9086 | 153.0 | 156.0 | 3.0 | 0.010 | | |
| | | | 9087 | 156.0 | 159.5 | 3.5 | 0.008 | | |
| | | • | 9088 | 1.59.5 | 161.1 | 1.6 | 0.008 | | |
| 159.5 | 164.2 | Sericite Schist | | | | | | | |
| | | Tan to grey-green, fine-grained, faintly to | | | | | | | |
| | | poorly bedded. | | | | ļ | | | |
| | | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | |
| | | | | | | | | | |

| | | | | | | The second of th | |
|-------------------|-----------------------------|-------------------|-------------|----------|------|--|------------|
| DIAMOND DE | RILL RECORD ARD TOWNSHIP | LOGGED BYD_ | Constable | | | D.D.H. No. AIM-83-1 | PAGE 3/7 |
| ATITUDE 60 + 00 E | BEARING OF HOLE | GRID NORTH (036°) | STARTED | NOV. 20, | i | CLAIM No. P.54543 | |
| EPARTURE 8 + 50 S | DIP OF HOLE | -450 | _ COMPLETED | NOV. 22, | 1983 | DIRECTION AND DIS | TANCE FROM |
| LEVATION | DIP TESTS | NONE TAKEN | DEPTH | 500.0' | | NE. CLAIM POST | |

| FOC | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | | ASSAY | | |
|-------|-------|--|--------|------|------|--------|-------|-------|---|---|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| 164.2 | 225.3 | Intermediate Tuff. | | | | | | | | _ |
| | | Dark to medium green, fine-grained, finely-bedded, | | | | | | | | |
| | | chloritic, bedding at 57° to C.A. | | - | | | | | | |
| | | From 175.2' - 176.6' grey feldspar porphyry subvolcanic unit | | | | | _ | | | |
| | | From 176.6' - 210.0' intermediate tuff becomes medium | | | | | | | | |
| | | grained and more chloritic, darker green. | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | | |
| | | | - | | | | | | | |
| | | | | | | | | | | |
| 225.3 | 235.0 | Felsic Tuff. | | | | | | | | |
| | | | | | | | | | | |
| | | Grey, fine-grained, finely-bedded, sericitic rock. | | | | | | | | |
| | | Traces of pyrite cubes. | | | | | | | | · |
| | | | | | | | | | | |
| | | | | | | | | | - | |
| | | | | | | | | | | |

| DIAMONI | DRILL RECORD | LOGGED BY D. | Constable | | CONSTABLE CONSULTING INC. | |
|------------------|---------------------|------------------|-------------|---------------|---------------------------|----------|
| PROPERTY KAPLAN | - MALLARD TOWNSHIP | | | | D.D.H. No. AIM-83-1 | PAGE 4/7 |
| LATITUDE 60 + 00 | E BEARING OF HOLE G | RID NORTH (036°) | _ STARTED | NOV. 20, 1983 | CLAIM NoP.545435 | 5 |
| DEPARTURE 8 + 50 | S DIP OF HOLE | 45 ⁰ | _COMPLETED_ | NOV. 22, 1983 | DIRECTION AND DISTA | NCE FROM |
| ELEVATION | DIP TESTSN | ONE TAKEN | _ DEPTH | 500.01 | NE. CLAIM POST | |

| F00 | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | | ASSAY | | |
|-------|-------|---|--------|------|------|--------|------|----------|----------|--|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | Ι | | | |
| 235.0 | 237.2 | Intermediate Tuff. | | | | | | | | |
| | | Dark to medium green, fine-grained, finely-bedded, | | | | | | | | |
| | | chloritic. Traces of pyrite. | | | | | | | | |
| | | | | | | | | | | |
| 237.2 | 254.5 | Felsic Tuff. | | | | | | | | |
| | | | | | | | | | | |
| | | Grey, fine-grained with < 1" chloritic interbeds but | | | | | | | | |
| | | mostly sericitic, finely-bedded, traces of pyrite. | | | | | | <u> </u> | | |
| | | Sharp conformable out contact. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | <u> </u> | |
| 254.5 | 273.3 | Intermediate Tuff. | | | | | | | - | |
| | | Medium green, fine-grained to medium-grained, finely- | | | | | | | | |
| | | bedded. Traces of pyrite, chloritic and sericitic. | | | | | | | | |

Sharp conformable out contact.

| DIAMOND DRI | | LOGGED BY D. | Constable | | CONST | TABLE CONSUL | TING INC. | PAGE 4/7 |
|--------------------|-------------------|-------------------|-----------|------------|-------|--------------|---------------------|------------|
| LATITUDE 60 + 00 E | _ BEARING OF HOLE | GRID NORTH (036°) | STARTED | NOV. 20, 1 | 1983 | | CLAIM No P.5454 | |
| DEPARTURE 8 + 50 S | _ DIP OF HOLE | -45 ⁰ | COMPLETED | NOV. 22, 1 | 1983 | ₹ 'N | -DIRECTION AND DIST | TANCE FROM |
| ELEVATION | DIP TESTS | NONE TAKEN | DEPTH | 500.0' | | | NE. CLAIM POST | |

| F00 | TAGE | DECORIOTION | SAMPLE | | | SAMPLE | ······· | ASSAY | |
|-------|-------|---|--------|------|----|--------|-------------|---|------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | |
| 235.0 | 237.2 | Intermediate Tuff. | | | | | | | |
| | | | | | | | | | |
| | | Dark to medium green, fine-grained, finely-bedded, | | | | ļ | | | |
| | | chloritic. Traces of pyrite. | | | | | | | |
| | | | | | | | | | |
| 237.2 | 254.5 | Felsic Tuff. | | | | | | | |
| | | | | | | | | | |
| | | Grey, fine-grained with < 1" chloritic interbeds but | | | | | | | |
| | | mostly sericitic, finely-bedded, traces of pyrite. | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | |
| | | | | | | | | | |
| 254.5 | 273.3 | Intermediate Tuff. | | | | | - | * · · · · · · · · · · · · · · · · · · · | |
| | | | | | | | | | |
| | | Medium green, fine-grained to medium-grained, finely- | | | | | | | |
| | | bedded. Traces of pyrite, chloritic and sericitic. | | | | | | | |
| - | 273.3 | Medium green, fine-grained to medium-grained, finely- | | | | | | | |

Sharp conformable out contact.

| | <u>-</u> | | | | |
|-----------------------|-----------------|-----------------|-----------|--------------|------------------------------|
| DIAMOND D | RILL RECORD | LOGGED BY D. | Constable | | ONSTABLE CONSULTING INC. |
| PROPERTY KAPLAN - MAL | LARD TOWNSHIP | | | | D.D.H. No. AIM-83-1 PAGE 5/7 |
| LATITUDE 60 + 00 E | BEARING OF HOLE | RID NORTH (036° | STARTED | NOV. 20,1983 | CLAIM No. P.545435 |
| DEPARTURE 8 + 50 S | DIP OF HOLE | 45° | COMPLETED | NOV. 22,1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | ONE TAKEN | DEPTH | 500.0' | NE. CLAIM POST |

| FOO | TAGE | | SAMPLE | F001 | TAGE | SAMPLE | | ASSAY | | |
|-------|-------|---|--------|------|------|--------|-------------|-----------|---|--|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| 273.3 | 323.3 | Felsic Tuff. | | | | | | | | |
| | | Grey to grey-green, fine-grained, finely-bedded, sericitic- | | | | | | | | |
| | | chloritic. Traces of pyrite parallel to bedding. | | | | | | | | |
| | | Bedding is at 58° to C.A. | | | | | | | | |
| | | From 299.7' - 300.7' felsic tuff is hematized and red in | | | | | | | | |
| | | color, traces of disseminated pyrite. | | | | | | | | |
| | | | | | | | _ | | | |
| | | | | | | | | | _ | |
| 323.3 | 326.0 | Intermediate Tuff. | | | | | | | | |
| | | Dark green, medium to fine-grained, poorly-bedded to | | | | | | | | |
| | | faintly-bedded, chloritic. | | | , | | | | | |
| | | Sharp out contact. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | <u> </u> | | |
| | | | | | | | _ | | | |

| DIAMOND DR | ILL RECORD | LOGGED BYI |). Constable | e <u>C</u> | ONSTABLE CONSULT | ring inc. | |
|--------------------------|---------------------|-------------------------------|--------------|---------------|------------------|--------------------|-----------------|
| PROPERTY KAPLAN - MALLAN | RD TOWNSHIP | | | | D.C | D.H. No. AIM-83-1 | PAGE <u>6/7</u> |
| LATITUDE 60 + 00 E | BEARING OF HOLE _GR | RID NORTH (036 ⁰) | STARTED | NOV. 20, 1983 | - | CLAIM No. P.5454 | 35 |
| DEPARTURE 8 + 50 S | DIP OF HOLE | 15 ⁰ | COMPLETED_ | NOV. 22, 1983 | | -DIRECTION AND DIS | TANCE FROM |
| ELEVATION | DIP TESTSNO | NE TAKEN | DEPTH | 500.0' | | NE. CLAIM POST | |

| FOO | TAGE | D. F. C. O. L. D. T. L. C. H. | SAMPLE | F001 | AGE | SAMPLE | | ASS | AY | |
|-------|-------------------|---|--------|------|---------------------------------------|--------|---|-----|----|----------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | | | | |
| 326.0 | 414.7 | Felsic Tuff. | | | | | | | | |
| | | Grey to grey-green, fine-grained, finely-bedded. Bedding is at 67° to C.A. Sericitic with sections of chlorite. | | | | | | | | |
| | Traces of pyrite. | | | | | | | | | |
| | | Barren white quartz veins at 328.0', 335.4', 359.1', | | | | | | | | |
| , | | 366.6', and 375.9'. | | | | | | | | |
| | | 405.5' - 406.5' intermediate tuff, chloritic. | | | | | | | | |
| | | • | | | | | | | | |
| 414.7 | 426.0 | Intermediate Tuff. | | | | | | | | |
| | | Dark green, medium to fine-grained, poorly to faintly- | | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | bedded, chloritic, traces of pyrite. | | | | | | | | |
| | | Sharp conformable out contact. | | _ | | | | | | <u> </u> |
| | | | | | | - | | | | · · |
| | | | | | | | 1 | 1 | 1 | 1 |

| 本社 2000年1月4日以前,1000年7月2日 1月1日 1日 1 | · · · · · · · · · · · · · · · · · · · | or selection in such enterprise in the selection in such enterprise in the selection in such enterprise in the | | · 「「「「「「「」」」、「「」」、「「」」、「「」」、「「」、「」、「」、「」、「 | |
|---|---------------------------------------|--|-----------|--|------------------------------|
| DIAMOND DI PROPERTY KAPLAN - MALLA | | LOGGED BY D. | Constable | co | D.D.H. No. AIM-83-1 PAGE 7/7 |
| LATITUDE 60 + 00 E | BEARING OF HOLE G | RID NORTH (036°) | STARTED | NOV. 20, 1983 | CLAIM No. P.545435 |
| DEPARTURE 8 + 50 S | DIP OF HOLE | 45 ⁰ | COMPLETED | NOV. 22, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTSN | ONE TAKEN | DEPTH | 500.0' | NE. CLAIM POST |

| FOOTAGE | | D. # 2.0.D. T. 1.0.L. | SAMPLE | F001 | | SAMPLE | | ASSAY | ASSAY | |
|---------|-------|--|--------|------|----|--------|--|-------|-------|-------------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| 426.0 | 500.0 | Felsic Tuff. | | | | | | | | |
| | | Grey to grey-green, fine-grained, finely-bedded, | | | | | | | | |
| | | sericitic, traces of pyrite. | | | | | | | | |
| | | From 440.6' - 441.9' felsic tuff is hematized and contains | | | | | | | | |
| | | ½ % pyrite (disseminated). | | | | | | | | |
| | | From 496.0' - 498.2' intermediate tuff, green, poorly- | | | | | | | | |
| | | bedded, chloritic. | | | | | | | | |
| | | NSSOCIATION | | | | | | | | |
| | | END OF HOLE 500.0' AIM-83-1 | | | | | | | | |
| | | Solviola, constate (| | | | | | | - | |
| | | LELION LETTON | | | | | | | | |
| | | | | | | | | | | |
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| The second of th | est est uits | | | | | · . | | N |
|--|--------------------|-----------------|-------------|---------|----------|--------------------|---------------------|-----------|
| DIAMOND DR | ILL RECORD | LOGGED BY _D. | Constable | | <u>c</u> | ONSTABLE CONSULTIN | NG INC. | |
| PROPERTY KAPLAN - MALLA | | | CORE | | | D.D.H | . No. AIM-83-2 | PAGE 1/6 |
| LATITUDE 56 + 00 E | BEARING OF HOLE GR | ID NORTH (0360) | _ STARTED | DEC. 1, | 1983 | _ \ | LAIM No. P.545432 | |
| DEPARTURE 4 + 50 S | DIP OF HOLE4 | 5 ⁰ | _ COMPLETED | DEC. 5, | 1983 | - | DIRECTION AND DISTA | ANCE FROM |
| ELEVATION | DIP TESTS | | DEPTH | 400.0' | | N | IE. CLAIM POST | |

| F00 | TAGE | DESCRIBTION | SAMPLE | F00 | TAGE | SAMPLE | Au | | ASSAY | |
|-------|-------|--|--------|--|------|--------|--------|----|-------|------|
| FROM | TO | DESCRIPTION | No. | FROM | TO | LENGTH | oz./to | in | | |
| 0 | 42.0 | CASING | | | | | | | | |
| 42.0 | 110.1 | Felsic Tuff | | | | | | | | |
| | | Grey with minor grey-green (chloritic) sections, fine- grained, finely-bedded, sericitic, average hardness. | | | | | | | | |
| | | Bedding is at 65° to C.A. Nil to trace sulfides. 50.7' - 54.0' chloritic, green intermediate tuff section. | | | | | | | | |
| | | 61.0' - 68.0' trace to 1% pyrite cubes (disseminated). | 9093 | 61.8 | 65.0 | 4.0 | 0.012 | | _ | |
| | | Rock shows evidence of tight macro-scale folding with | 9094 | 65.0 | 68.0 | 3.0 | 0.012 | | | |
| | | schistosity parallel bedding parallel to C.A. in places. | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | | |
| | | | | | | | ļ | | | |
| | | | | ······································ | | | | | | |
| 110.1 | 116.4 | Intermediate Tuff | | | | | | | | |
| | | Dark green, medium to fine-grained, poorly-bedded, massive, | | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Constable | CONSTABLE CONSULTING INC. |
|--|----------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. No. AIM-83-2 PAGE 2/6 |
| LATITUDE 56 + 00 E BEARING OF HOLE GRID NORTH (036°) STARTED DEC. 1, | 1983 CLAIM No. P.545432 |
| DEPARTURE 4 + 50 S DIP OF HOLE -45° COMPLETED DEC. 5, 1 | 1983 DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH400.0' | NE. CLAIM POST |

| FOC | TAGE | D.C.C.D.I.D.T.I.O.N. | SAMPLE | | OOTAGE SAM | | Au . | | ASSAY | | |
|------------|-------|---|--------|------|------------|--------|-------|----|-------|----------|----------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz./t | bn | | | |
| | | chloritic, soft. Nil to trace pyrite. | | | | | | | | | |
| <u>.</u> . | | | | | | | | | | | |
| 116.4 | 184.0 | Felsic Tuff | | | | | | | | | |
| | | Grey to grey-green, fine-grained, finely-bedded at 60° to | | | | | | | | | |
| | | C.A. Nil to trace pyrite, sericitic. | | | | | | | | | |
| | | From 132.1' - 133.8' hematized felsic tuff, trace pyrite. | | | | | | | | | |
| | | At 147.6' - 1"-wide quartz vein with tourmaline. | 9095> | 1321 | 1333 | 1.7 | 0.015 | | | | |
| | | At 150.7' - sand seam 2" wide. | | | | | | | | <u> </u> | |
| | | At 156.1' - 1/8" pyrite seam. | | | | | | | | | |
| | | 163.7' - 168.0' dark green mafic tuff. | | | | | | - | | | <u> </u> |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 184.0 | 236.2 | Mafic Tuff | | | | | | | | | |
| | | Dark green, medium-grained, poorly_bedded, chloritic, | : | | | | | | | | |
| | | nil sulfides. | | | | | | | | | |

| DIAMOND DR | ILL RECORD LOGGED B | γ D. Constable | CONSTABLE CONSULTING INC. |
|--------------------|------------------------------|-------------------------|------------------------------|
| | RD TOWNSHIP PROPERTY | | D.D.H. No. AIM-83-2 PAGE 3/6 |
| LATITUDE 56 + 00 E | BEARING OF HOLE GRID NORTH (| 036°) STARTEDDEC. 1, 19 | CLAIM No. P.545432 |
| DEPARTURE 4 + 50 S | DIP OF HOLE45° | COMPLETED DEC. 5, 19 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | DEPTH400.0' | NE. CLAIM POST |

| F00 | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | |
|-------|-------|--|--------|-------|-------|--------|---------|-------|------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | oz./ton | | |
| 236.2 | 317.3 | Felsic Tuff | | | | | | | |
| | | Grey, finely-bedded, fine-grained, sericitic with nil to | | | | | | | |
| | | traces of sulfides (Py), Bedding is at 70° to C.A. | | | | | | | |
| | | 240.7' - 241.2' dark green, mafic tuff section. | | | | | | | |
| | | At 255.1' - 1"-wide pyritic bed | 9097 | 254.9 | 255.3 | 0.4 | 0.015 | | |
| | | 273.0' - 275.7' - grey feldspar porphyry horizen | | | | | | | |
| | | 293.0' - 293.5' - green, intermediate tuff, chloritic | | | | | | | |
| | | trace to 1% pyrite | | | | | | | |
| | | 294.9' - 295.2' - grey feldspar porphyry (porphroblasts) | | | | | | | |
| | | 300.9' - 301.5' - pink to red, arkosic bed; sharp, conformab | Le | | | | | | |
| | | in and out contacts | | | | | | | - |
| | | 306.5' - 308.9' - dark green, intermediate tuff, chloritic | | | | | | | |
| | | sharp conformable in and out contacts | | | | | | | |
| | | 308.9' - 313.7' - hematized felsic tuff, red with 1-2% | 9096 | 300.3 | 308-6 | 2.3 | 0.006 | | |
| | | pyrite. | , | | | | | | |
| | | Sharp conformable out contact. | | | | | | | |

| 1 | | RILL RECORD | LOGGED BY D. | Constable | | CONSTABLE CONSULT | ring inc. | |
|-------------|-------------------------|----------------------|------------------|--------------|--------------|-------------------|-----------------------------|----|
| PROPERTY _ | KAPLAN - MALI | ARD TOWNSHIP PROPERT | 'Y | | | D.C | D.H. No. AIM-83-2 PAGE 4/ | 5 |
| LATITUDE | 56 + 00 E | BEARING OF HOLE G | RID NORTH (036°) | STARTED | DEC. 1, 1983 | _ | CLAIM No. P.545432 | |
| DEPARTURE_ | 4 + 50 S | DIP OF HOLE | ·45 ⁰ | _ COMPLETED_ | DEC. 5, 1983 | _ | -DIRECTION AND DISTANCE FRO |)M |
| ELEVATION _ | ATT. ATT. SALE SALE SEE | DIP TESTS | | DEPTH | 400.0' | | NE. CLAIM POST | |

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| F00 | TAGE | DECCOURTION | SAMPLE | | TAGE | SAMPLE | | | ASSAY | | |
|-------|-------|---|--------------|------|------|---------|---|---------|----------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | | | | | |
| 317.3 | 322.4 | Intermediate Tuff | | | | | | | | | |
| | | | | | | | | | | | |
| | | Dark green, fine to medium-grained, poorly to well-bedded | | | | | | | | | |
| | | with chlorite and nil sulfides. Sharp, interbedded. | | | | | | | | | |
| | | Sharp, interbedded conformable out contact. | | | | | | | | | |
| | | | | | | - | | | | | |
| | | | | | | | | | | | |
| 322.4 | 328.8 | Felsic Tuff | | | | | | | | | |
| | | | | | | - | | | | ļ | |
| | | Grey to grey-green, fine-grained, finely-bedded at 72% | | | | | | | ļ | | |
| | | to C.A. sericitic, trace to nil pyrite. | | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | - | | | |
| | | | | | | ļ | ļ | ļ | | | |
| | | | | | | | | | | | |
| 328.8 | 348.0 | Mafic Tuff | | | | | | | | | |
| | | | | | - | | | | <u> </u> | <u> </u> | |
| | | Dark green, medium to fine-grained, poorly to faintly- | | | | | | | | | |

| DIAN | MOND DRI | LL RECORD | LOGGED BY | γ_D. C | Constable | | CC | ONSTABLE CONSUI | LTING INC. | |
|-----------|------------------|-----------------|------------------|---------------------|------------|---------|------|-----------------|-------------------|------------|
| | KAPLAN - MALLARD | | | | | | | D | D.H. No. AIM-83-2 | _ PAGE |
| LATITUDE | 56 + 00 E | BEARING OF HOLE | GRID NORTH (0 | ⁰³⁶ °) 5 | STARTED | DEC. 1, | 1983 | | CLAIM No. P.54543 | 2 |
| DEPARTURE | 4 + 50 S | DIP OF HOLE | -45 ⁰ | | COMPLETED_ | DEC. 5, | 1983 | <u> </u> | DIRECTION AND DIS | TANCE FROM |
| ELEVATION | | DIP TESTS | | | DEPTH | 400.0' | | | NE. CLAIM POST | |

| FOC | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | - | - | ASSAY | |
|-------|-------|--|--------|------|------|--------|---|---|-------|------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | | |
| | | bedded, chloritic, nil sulfides. | | | | | | | | |
| | | 2-3%sub-rounded, white, feldspar porphroblasts present | | | | | | | | |
| | | elongated along the bedding planes. | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | - | |
| | | | | | | | | | | |
| 348.0 | 373.5 | Felsic Tuff | | | | | | | | |
| | | Grey, fine-grained, finely-bedded, sericitic, nil to trace | | | | | | | | |
| | | pyrite. Some sections exhibit sub-rounded quartz-eye | | | | | | | | |
| | | development. | | | | | | | | |
| | | 352.0' - 352.7' - dark green, intermediate tuff with | | | | | | | | |
| | | l% pyrite | | | | | | | | |
| | | 353.2' - 353.4' - conformable pink arkose bed. | | | | | | | | |
| | | Sharp conformable out contact. | | | _ | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| DIAMOND | DRILL RECORD | LOGGED BY _ |). Constable | | | ONSTABLE CONSULTING INC. |
|-------------------|---------------------------|--------------|--------------|---------|------|------------------------------|
| PROPERTY KAPLAN - | MALLARD TOWNSHIP PROPERTY | | | | | D.D.H. No. AIM-83-2 PAGE 6/6 |
| LATITUDE 56 + 00 | E BEARING OF HOLE GRI | D NORTH (036 | SO) STARTED | DEC. 1, | 1983 | CLAIM No. P.545432 |
| DEPARTURE 4 + 50 | | <u> </u> | COMPLETED | DEC. 5, | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | | DEPTH | 400.0 | | NE. CLAIM POST |

| FOC | TAGE | DECABLIBATION | SAMPLE | F00 | TAGE | SAMPLE | | ASSAY | | |
|-------|-------|--|--------|------|------|----------|------|-------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | | |
| 373.5 | 400.0 | Mafic Tuff | | | | | | | | |
| | | | | | | | | | | |
| | | Dark green, medium to fine-grained, poorly to faintly- | | | | | | | | |
| | | bedded, chloritic, nil to trace pyrite. | | | | | | | <u> </u> | |
| | | 396.9' - 398.4' pink to white feldspar porphyry with | | | | ļ | | | | |
| | | 40% euhedral feldspar phenocrysts present. | | | | <u> </u> | | | | |
| | | Sharp, conformable in and out contacts. | | | | | | | | |
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| | | | ļ | | | | | | | |
| | | • | | | | | | | ļ | |
| | | | | | | <u> </u> | | | ļ | |
| | | SSUCIATION. | | | | ļ | | | | |
| | | 400.0' END OF HOLE | | | | | | | | |
| | | AIM - 83 - 2 | | | | ļ | | ļ | <u> </u> | |
| | | 72/29/20 | | | | | | | <u> </u> | |
| | | | | | | <u> </u> | | | | |
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| DIAN | MOND DR | ILL RECORD | LOGGED BY | D. Constable | CONSTAB | LE CONSULTING INC. |
|-----------|-----------------|--------------------|---------------|---------------------------|---------------|------------------------------|
| PROPERTY | KAPLAN - MALLAI | RD TOWNSHIP PROPER | RTY | BQ CORE | | D.D.H. No. AIM-83-3 PAGE 1/8 |
| LATITUDE | 56 + 00 E | BEARING OF HOLE_ | GRID NORTH (0 | 36 ⁰) STARTED | NOV. 28, 1983 | CLAIM No. 275' in P. 545432 |
| DEPARTURE | 1 + 00 S | DIP OF HOLE | -45° | COMPLETED_ | Nov. 30, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | | DIP TESTS | | DEPTH | 408.0' | NE. CLAIM POST |

| F00 | TAGE | D.E.C.O.D.I.D.T.I.O.V. | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | |
|----------|------|--|--------|--------------|------|--------------|----------|------------------|-------------|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | oz/tom | | |
| | | | | | | | | | |
| 0.0 | 51.0 | CASING | | | | | | | |
| | | | | | | | | | ···· |
| 51.0 | 63.7 | Interbedded Intermediate and Felsic Tuff | | 1 | | | | . of . | |
| 32.0 | | | | | | | 1 | | |
| | | | 9089 | 61.3 | 62.3 | 1.0 | 0.005 | | |
| | | Dark green to grey, interbedded, chloritic, medium-grained | | | | | | | |
| | | tuff and sericitic, fine-grained felsic tuff. | | | | | | | |
| | | Trace pyrite. Well-bedded at 55° to C.A. | | | | | | | |
| | | | | | | | | William to Maria | |
| | | Sharp out contact. | | | | | | • | |
| | | | | ļ | | - | | | |
| | | · | | | | | | | |
| 63.7 | 86.4 | Mafic Tuff | | | | | | | |
| | | | | | | | | | |
| | | Dark green, medium-grained, poorly-bedded chloritic | | | | | | | |
| | | | | | | | | | |
| | | and soft. | | 1 | | | | | |
| | | From 80.4' - 83.9' white to tan felsic tuff, sericitic. | | | | | | | <u>.</u> |
| | | Sharp out contact. | | | | | | | |
| | | | | | | | | | |
| <u> </u> | | | | <u> </u> | L | J | <u> </u> | LL | |

| DIAMOND DRI | LL RECORD | LOGGED BYD. | Constable | | CONSTABLE CO | NSULTING INC. | |
|--------------------|---------------------|-----------------------------|--------------|----------|--------------|---------------------|----------------------------|
| | TOWNSHIP PROPERTY | | | | | D.D.H. NoAIM-83-3 | PAGE |
| LATITUDE 56 + 00 E | BEARING OF HOLE GRI | D NORTH (036 ^O) | STARTED | NOV. 28, | 1983 | 133' CLAIM No. 275' | in P-545432 in P-545433 |
| DEPARTURE 1 + 00 S | DIP OF HOLE | 0 | _ COMPLETED_ | NOV. 30, | 1983 | DIRECTION AND D | ISTANCE FROM |
| ELEVATION | DIP TESTS | | _ DEPTH | 408.0' | | NE. CLAIM POST | |

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| F00 | TAGE | DECODIDATION | SAMPLE | F00 | TAGE | SAMPLE | Au. | | ASSAY | | |
|-------|-------|--|--------|-------|-------|--------|------|-----|-------|---|----------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | oz/t | .on | | | |
| 86.4 | 103.1 | Interbedded Intermediate and Felsic Tuff | | | | | | | | | |
| | | 86.4' - 88.1' Intermediate Tuff | | | | | | | | | |
| | | 88.1' - 91.7' Felsic Tuff | | | | | | | | | |
| | | 91.7' - 98.5' Intermediate Tuff | _ | | | | | | | | |
| | | 98.5' - 103.1' Felsic Tuff (quartz vein at contact - | | | | | 1 | - | | | |
| | | 2" wide) | | | | | | | | | |
| | | | | | | | | | | | |
| 103.1 | 158.0 | Intermediate Tuff | | | | | | | | | |
| | | | 9090 | 151.7 | 153.7 | 1.8 | Tr. | | | | |
| | | Dark to medium green, fine to medium-grained, soft, | | | | | | | | | |
| | | chloritic, poorly to finely-bedded. Trace to nil pyrite. | | | | | | | | | |
| | | 152.2' - 154.0' grey felsic tuff, trace pyrite. | | | | ļ | | | | ļ | <u> </u> |
| | | Gradational out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| DIA | MOND D | RILL RECORE | LOGGED E | BY D. Constable | | ONSTABLE CONSULTING INC. |
|-------------|---------------|--------------------|------------|-----------------|---------------|---|
| PROPERTY _ | KAPLAN - MALI | ARD TOWNSHIP PROPE | RTY | | | D.D.H. No. AIM-83-3 PAGE 3/8 |
| LATITUDE | 56 + 00 E | BEARING OF HOLE | GRID NORTH | (036°) STARTED | NOV. 28, 1983 | 133' in P-545432 CLAIM No.275' in P-545433 |
| DEPARTURE _ | 1 + 00 S | DIP OF HOLE | -45° | COMPLETED_ | NOV. 30, 1983 | 1 |
| ELEVATION _ | | DIP TESTS | | DEPTH | 408.0' | NE. CLAIM POST |

| FOOTAGE | | DESCRIPTION | SAMPLE | | | SAMPLE | | · · · · · · · · · · · · · · · · · · · | ASSAY | | |
|----------|-------|--|--------------|-------|--------------------|--------|--------------|---------------------------------------|-------|---|---|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | oz/to | n | | | |
| 158.0 | 184.8 | Mafic Tuff | | | | | | | | | |
| | | | | | | | ļ | | | | |
| | | Dark green, medium-grained, poorly-bedded. nil to trace | | | | | | - | | | · |
| | | pyrite, chloritic. | | | | | | | | | |
| | | 175.9' - 176.4' porphyry section. | | | | | | - | | | |
| | | Gradational out contact. | <u> </u> | | | | | - | | | |
| | | | | | - | | | <u> </u> | | | |
| , | | | | | | | <u> </u> | - | | | |
| 184.8 | 259.7 | Felsic Tuff | - | | | | <u> </u> | | | | |
| | | | | | | | | | | | |
| <u> </u> | | Grey to grey-green, fine-grained, finely to poorly-bedded, | | | | | | | | - | |
| | | sericitic. soft to medium hard. Bedding is at 630 to C.A. | 909I | 187,3 | 18 8. 9 | 1.6 | 0.00 | 3 | | | |
| | | 215.7' - 219.2' - grey feldspar porphyry, 10% white | | | | | ļ | + | | | |
| | | phenocrysts | | | | | <u> </u> | | | | - |
| / | | 230.2' - 232.3' - mafic tuff | | | | | ļ | ļ | | | |
| | | 232.3' - 234.7' - grey feldspar porphyry, 8% white | - | | | | <u> </u> | | | | |
| | | phenocrysts. Gradational contacts with | | | | | <u> </u> | | | | |

| DIAMOND DRI | LL RECORD LOGGED BY_ | D. Constable | | ONSTABLE CONSULTING INC. |
|--------------------|---------------------------------|--------------|---------------|------------------------------|
| · · | TOWNSHIP PROPERTY | | | D.D.H. No. AIM-83-3 PAGE 4/8 |
| LATITUDE 56 + OO E | BEARING OF HOLE GRID NORTH (036 | | NOV. 28, 1983 | 02/1/11/0- |
| DEPARTURE 1 + 00 S | DIP OF HOLE | COMPLETED | NOV. 30, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | DEPTH | 408.0' | NE. CLAIM POST |

| FOOTAGE | D.C.C.D.L.C.T.L.C.U. | SAMPLE | F001 | TAGE | SAMPLE | ASSAY | |
|-------------|---|--------|------|------|--------|-------|------|
| FROM TO | DESCRIPTION | No. | FROM | то | LENGTH | | |
| | tuffs to porphyry | | | | | | |
| | 234.7' - 236.1' mafic tuff sharp conformable out contact | | | | | | |
| | 236.1' - 238.1' felsic tuff | | | | | | |
| | 238.1' - 240.9' mafic tuff | | | | | | |
| | 240.9' - 242.3' grey feldspar porphyry 15% white feldspar | | | | | | |
| | phenocrysts. | | | | | | |
| | Sharp conformable out contact. | | | | | | |
| | | | | | | | |
| | | | | | | | |
| 259.7 282.0 | Mafic Tuff | | | | | | |
| | Dark green, medium to fine-grained. poorly-bedded, | | | | | | - |
| | soft, chloritic. | | | | | | |
| | 260.2' - 260.9' white quartz vein | | | ., | | | |
| | 268.6' - 268.9' white grey feldspar porphyry | | | | | | |
| ~ | 270.0' - 271.4' grey feldspar porphyry | | | | | | |
| | 275.3' - 278.1' grey feldspar porphyry | | | | | | |

| DIA | MOND D | RILL RECORD | LOGGED BY D. | Constable | (| CONSTABLE CONSULTING INC. | |
|-------------|-----------|------------------------|---------------------------------------|-------------|--------------|---------------------------|------------------------------------|
| 1 | | LARD TOWNSHIP PROPERTY | · · · · · · · · · · · · · · · · · · · | | | D.D.H. No. AIM-8 | 3-3 PAGE 5/8 |
| LATITUDE | 56 + 00 E | BEARING OF HOLE _GR | ID NORTH (036°) | STARTED | NOV. 28, 198 | 13 CLAIM No. 27 | 33' in P-545432 '5' in P-545433 |
| DEPARTURE_ | 1 + 00 S | DIP OF HOLE4 | .5 | _COMPLETED_ | NOV. 30, 198 | DIRECTION A | ND DISTANCE FROM |
| ELEVATION _ | | DIP TESTS | | DEPTH | 408.0' | NE. CLAIM P | OST. |

| FOOTAGE | | DESCRIPTION | SAMPLE | F001 | | SAMPLE | MPLE | | | |
|----------|-------|--|---------|------|-------------|----------|------|--|---|----------|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| <u> </u> | | 279.8' - 280.1' white quartz vein | | | · · · · · · | | | | | |
| | | 281.3' - 282.0' grey feldspar porphyry | | | | | | | | |
| | | | | | | | | | | ļ |
| | | | | | | | | | | |
| 282.0 | 290.6 | Felsic Tuff | | | | | | | | ļ |
| | | | ļ | | | | | | | |
| | | Grey to grey-green, fine-grained, poorly to finely- | | | - | <u> </u> | | | | ļ |
| | | bedded. sericitic. | ļ | | | | | | | |
| | | Sharp out contact. | | | | | | | | |
| | | | | | | | | | | |
| · | | | | | , | | | | ļ | <u> </u> |
| 290.6 | 308.3 | Basalt | | | | | | | ļ | ļ |
| | | | | | | | | | | |
| | | Black to black-green, medium-grained but finer-grained on | | | | | 111 | | - | |
| | | contacts, 1-2% round amygdules filled with calcite-quartz. | | | | | | | ļ | |
| | | Nil sulfides. | | | | 1 | | | | |
| | | Sharp out contact, chilled, at 90° | to C.A. | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Constable CONSTABLE | E CONSULTING INC. |
|--|--|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. No.AIM-83-3 PAGE 6/8 |
| LATITUDE 56 + OO E BEARING OF HOLE GRID NORTH (036°) STARTED NOV. 28, 1983 | CLAIM No. 133' in P-545432 275' in P-545433 |
| DEPARTURE 1 + 00 S DIP OF HOLE -45° COMPLETED NOV. 30, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH 408.0' | NE. CLAIM POST |

| FOOTAGE | | D C C C C C C C C C C C C C C C C C C C | SAMPLE | F001 | AGE | SAMPLE | | | ASSAY | | |
|---------|-------|--|--------|------|-----|--------------|---------------------------------------|----------------|--|--------------|--------------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | <u> </u> | | |
| | | | | | | | | - | | | |
| | | | | | | | | | 1 | <u> </u> | |
| | | | | | | | | | | | |
| 200 2 | 333.5 | Interbedded Intermediate, Felsic Tuffs and Feldspar Porphyry | | | | | | | | | |
| 300.3 | 333.3 | Interpedded Intermediate, Persit Tulis and Peruspai Forphyry | | | | | · · · · · · · · · · · · · · · · · · · | | | | ļ <u>-</u> |
| | | | | | | | | - | | | |
| | | | | | | <u> </u> | | - | | <u> </u> | |
| | | Mostly (75%) chloritic, green, fine to medium-grained | | | | | | | | | |
| | | intermediate tuff. | | | | | | | | | |
| | | Intermediate turi. | | | | ļ | | | + | | |
| | | 321.8' - 322.0' - grey feldspar porphyry (conformable) | | | | | | 1 | | | |
| | | 322.6' - 322.8' - grey feldspar porphyry (conformable) | | | | | | | | | |
| | | 323.3' - 323.5' - grey feldspar porphyry (conformable) | | | | | | | | | |
| | | 324.1' - 325.1' - grey felsic tuff | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | 1 | |
| 333.5 | 336.7 | Feldspar Porphyry | | | | | | | 1 | | |
| | | | | | | | | | | | |
| | | Grey, 20% feldspar phenocrysts. | | | | | 2012 | | | | |
| | | | | | | 1 | | | | <u> </u> | |
| | | | | | | | | 1 | | | |

| DIAMOND DRI | LL RECORD LOGGE | ED BY D. Constable | CONST | PABLE CONSULTING INC. |
|---------------------------|--------------------------|--------------------------------|---------------|--|
| PROPERTY KAPLAN - MALLARI | TOWNSHIP PROPERTY | | | D.D.H. No. AIM-83-3 PAGE 7/8 |
| LATITUDE 56 + OO E | BEARING OF HOLE GRID NOR | TH (036 ⁰) STARTED | NOV. 28, 1983 | 133' in P-545432 CLAIM No. 275' in P-545433 |
| DEPARTURE 1 + 00 S | DIP OF HOLE | COMPLETED_ | NOV. 30, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | _ DIP TESTS | DEPTH | 408.0' | NE. CLAIM POST |

| FOOTAGE | | DESCRIPTION | | | TAGE | SAMPLE | | | ASSAY | | |
|---------|-------|--|---------------|------|------|--------|---|---|-------|--|--|
| FROM | то | DESCRIPTION | SAMPLE No. | FROM | то | LENGTH | | | | | |
| 336.7 | 352.5 | Intermediate Tuff | | | | | | | | | |
| | | Green to grey-green, fine-grained, finely to poorly- | | | | | | | | | |
| | | bedded. massive, sericitic with chloritic sections, | | | | | | | | | |
| | | nil to trace pyrite. | | | | | | | | | |
| | | 348.0' - 350.9' - grey feldspar porphyry | | | | | | | | | |
| | | | | | | | - | ļ | | | |
| | | | | | | | | | | | |
| 352.5 | 354.6 | Mafic Tuff | | | | | | | | | |
| | | Dark green, medium-grained, poorly-bedded. | | | | | | | | | |
| | | Bedding is at 65° to C.A. | | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

| DIAMOND DE | RILL RECORD LOGGE | ED BY D. Constable | CONSTABLE CONSULTING INC. |
|-----------------------|---------------------------|---------------------------------|--|
| PROPERTYKAPLAN - MALI | ARD TOWNSHIP PROPERTY | | D.D.H. No. AIM-83-3 PAGE 8/8 |
| LATITUDE 56 + 00 E | BEARING OF HOLE GRID NORT | TH (036°) STARTED NOV. 28, 1983 | 133' in P-545432 CLAIM No. 275' in P-545433 |
| DEPARTURE 1 + 00 S | DIP OF HOLE | COMPLETED NOV. 30,1983 | i 1 N 1 |
| ELEVATION | DIP TESTS | DEPTH408.0' | NE. CLAIM POST |

| FOOT | AGE | DECCRIPTION | SAMPLE | F00 | TAGE | SAMPLE | E Au | | ASSAY | | |
|-------|-------|--|--------|-------|--------|--------|--------|---|-------|--|-------------|
| FROM | то | DESCRIPTION | No. | FROM | ТО | LENGTH | oz/ton | | | | |
| 354.6 | 404.0 | Felsic Tuff | | | | | | | | | |
| | | Grey to grey-green, fine-grained, well-bedded, sericitic | | | | | | | | | |
| | | with chloritic sections. Nil pyrite. 5-10% white-green | | | | | | | | | |
| | | feldspar phenocrysts are present in 1-2' sections. | | | | | | | | | |
| | | 370.6' - 374.1' Mafic tuff, dark green, chloritic | | | | | | | | | |
| | | 383.7' - 384.5' Mafic tuff, dark green, chloritic | | | | | | - | | | <u> </u> |
| | | 385.5' - 391.0' Mafic tuff, dark green, chloritic | | | | | | | | | |
| | | 396.1' - 397.8' Intermédiate tuff, green, chloritic | 9092 | 396.9 | 397.46 | 0.7 | 0.005 | | | | |
| | | medium to fine-grained, at 397.6' 4" wide | | | | | | | | | |
| | | massive pyrite bed. | | | | | | | | | <u> </u> |
| | | csocia | | | | | | | | | į |
| | | D. C. | | | | | | | | | |
| 404.0 | 406.6 | Intermediate Tuff | | | | | | | | | |
| | | 19/2/3 | | | | | | | | | |
| 406.6 | 408.0 | Mafic Tuff | | | | | | | | | |
| | | 408.0' END OF HOLE AIM-83-3 | | | | | | | | | |

| DIA | MOND DRI | LL RECORD | LOGGED BY D. | Constable | CONSTABLE CONSULTING INC. |
|------------|------------------|------------------|------------------|-------------------------|-------------------------------|
| 4. | KAPLAN - MALLARD | | | CORE | D.D.H. No. AIM-83-4 PAGE 1./9 |
| LATITUDE | LINE 56 + 00 E | BEARING OF HOLE_ | GRID NORTH (036° |) STARTED NOV. 24, 1983 | CLAIM No. P-545433 |
| DEPARTURE_ | 2 + 00 N | DIP OF HOLE | -45 ⁰ | COMPLETED NOV. 27, 1983 | _ DIRECTION AND DISTANCE FROM |
| ELEVATION_ | | DIP TESTS | NONE | DEPTH500.0' | NE. CLAIM POST |

THE PROPERTY OF THE PROPERTY O

| FOO | TAGE | | SAMPLE | F001 | TAGE | SAMPLE | | | ASSAY | | |
|------|------|--|--------|------|------|--------|----|--------------|-------|----------|---|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | | | |
| 0 | 30.0 | CASING | | | | | | | | | _ |
| | | | | | | | | | | | |
| 30.0 | 31.6 | Felsic Tuff | | | | | | | | | |
| | | Black with white feldspar phenocrysts (5%) trace pyrite. | | | | | | | | | |
| | | Bedding at 530 to C. A. | | | | | | | | | |
| | | Sharp out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 31.6 | 59.1 | Intermediate Tuff | | | | - | | | | | |
| | | Dark green, fine-grained, finely-bedded, chloritic with | | | - | | | | | A. C. C. | |
| | | areas of sericite. Trace pyrite. Bedding at 55° to C.A. | | | | | | | | | |
| | | 54.6' - 55.1' - Coarse_grained, biotite -amphibole tuff. | | | | | | | | | |
| | | Sharp out contact. | | | | | | | | | |
| | | | · | | | | -: | | | | × |
| | | | | | | | | | | | |

| DIAMOND DRI | II PECOPO | LOGGED BY D. | Constable | | ONSTABLE CONSULTING INC. |
|---------------------------|----------------------|----------------|-----------|---------------|--------------------------|
| PROPERTY KAPLAN - MALLARD | | | | | D.D.H. No PAGE |
| LATITUDE LINE 56 + 00 E | _ BEARING OF HOLEGRI | D NORTH (036°) | STARTED | NOV. 24, 1983 | CLAIM No. P-545433 |
| | DIP OF HOLE | _ | | NOV. 27, 1983 | l Ni |
| ELEVATION | DIP TESTSNON | VE | _ DEPTH | 500.0' | NE. CLAIM POST |

| F00 | TAGE | DECCDIDELON | SAMPLE | | TAGE | SAMPLE | | ASSAY | | |
|------|-------|--|--------|------|------|--------|------|-------|---|--|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| 59.1 | 67.5 | Intermediate Biotitic Tuff | | | | | | | | |
| | | | | | | | | | | |
| | | Dark green to black, medium-grained, finely bedded with | | | | | | | | |
| | | amphibole laths parallel to cleavage/bedding. | | | | | | | | |
| | | Pyrite is present in trace amounts. | | | | | | | | |
| | | Sharp out contact. | | _ | | ļ | | | ļ | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 67.5 | 124.5 | Intermediate Tuff | _ | | | | | | | |
| | | • | | | | | | ļ | | |
| | | Dark to medium green, fine-grained, sericitic, chloritic | | | | | | | | |
| | | with fine bedding. Pyrite present parallel to bedding | | | | | | | | |
| | | as traces. Interbedded chlorite -rich tuff sections | | | | | | | | |
| | | with gradational contacts are infrequently observed. | | | | | | | | |
| | | Feldspar phenocrysts also occur as traces to 3% of the | | | | | | | | |
| | | rock. | | | | | | | | |
| | | At 98.0' bedding is 60% to C.A. | | | | | | | | |

| DIAMOND DRILL RECORD | LOGGED BY D. Constabl | e CONSTABLE CONSU | LTING INC. |
|--|-----------------------|-------------------|------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP | <u> </u> | | D.D.H. No. AIM-83-4 PAGE 3/9 |
| LATITUDE LINE 56 + 00 E BEARING OF HOLE GRID | NORTH (036°) STARTED | NOV.24, 1983 | CLAIM No |
| DEPARTURE 2 + 00 E DIP OF HOLE450 | COMPLETE | D_NOV.27, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTSNONE | E DEPTH | 500.0' | NE. CLAIM POST |

| F00 | TAGE | DECODIBEION | SAMPLE | F001 | TAGE | SAMPLE | ASSAY | ******** | |
|-------|-------|--|--------|------|---|--------|-----------|----------|--|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | | | |
| | | From 102.0' onwards quartz eyes are also present (1%). | | | | | | | |
| | | Sharp out contact. | | | | | | | |
| | | | | | | | | | |
| 124.5 | 150.5 | Mafic Tuff | | | | | | | |
| | | Dark green, medium-grained, finely to unbedded, chloritic. | | | | | | | |
| | | Trace pyrite cubes | | | | | | ļ | |
| | | 148.2' - 150.5' - sections of biotitic tuff. | | | | | | | |
| | | Sharp conformable out contact. | · | | | | | | |
| | | | | | | | | | |
| 150.5 | 155.0 | Intermediate Tuff | | | | | | | |
| | | Medium to dark green, fine-grained, finely-bedded at | | | | | | | |
| | | 5 5 to C.A. Trace pyrite, chloritic, sericitic. | | | فالما المالية | | | | |
| | | Gradational conformable out contact | • | | | | | | |

| DIA | MOND DRII | LL RECORD | LOGGED | BY D. | Constable | | c | CONSTABLE CONSULTING INC | • |
|------------|------------------|-----------------|------------------|--------|-------------|----------|-------------|--------------------------|---------------------|
| 1 | KAPLAN - MALLARD | · | | | | | | D.D.H. No. AIM | 1-83-4 PAGE 4/9 |
| LATITUDE | LINE 56 + 00 E | BEARING OF HOLE | GRID NORTH | (036°) | _ STARTED | NOV. 24, | 1983 | CLAIM No | P-545433 |
| DEPARTURE | 2 + 00 E | DIP OF HOLE | -45 ⁰ | | _ COMPLETED | NOV. 27, | 1983 | DIRECTIO | N AND DISTANCE FROM |
| ELEVATION_ | | DIP TESTS | NONE | | DEPTH | 500.0' | | NE. CLAI | M POST |

| F00 | TAGE | 25622127121 | SAMPLE | F00 | TAGE | SAMPLE | | ASSAY | | |
|-------------|-------|---|--------|------|------|--------|--------------|-------|-----|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | | | | |
| 155.0 | 164.4 | Mafic Tuff | | | | | | | | |
| | | Dark green, medium-grained, poorly_bedded, traces of | | | | | | | | |
| | | pyrite and minor hematite. | | | | | | | | |
| · | | Gradational out contact. | | | | | <u> </u> | ļ | | |
| | | | | | | | | | | |
| 164.4 | 193.7 | Intermediate Tuff | | | | | | | | |
| | | Dark to medium green, fine-grained, well-bedded, | | | | | | | | |
| | | trace pyrite. Bedding at 57° to C.A. Sericitic, chloritic | | | | | | | | |
| | | composition. Minor quartz eyes and feldspar phenocryst | | | | | | | | |
| | | development (< 1%). | | | | | - | | , | |
| | | | | | | | | | | |
| 199.7 | 211.7 | Mafic Tuff | | | | | | | · - | |
| | | | | | | | | | | |

| DIAN | AOND DRI | LL RECORD | LOGGED BY _D. | Constable | | CONSTABLE CONSULTING INC. | |
|-----------|------------------|-------------------|------------------|-----------|--------------|------------------------------|--|
| • | KAPLAN - MALLARD | | | | | D.D.H. No. AIM-83-4 PAGE 5/9 | |
| LATITUDE | LINE 56 + 00 E | BEARING OF HOLE G | RID NORTH (036°) | STARTED | NOV. 24, 198 | CLAIM No. P-545433 | |
| DEPARTURE | 2 + 00 E | DIP OF HOLE | 45 ⁰ | COMPLETED | NOV. 27, 198 | DIRECTION AND DISTANCE FROM | |
| ELEVATION | | DIP TESTS N | IONE | _DEPTH | 500.01 | NE. CLAIM POST | |

| FOO | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | | |
|-------|-------|--|--------|-------|------|--------|--------------|-----------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | Au oz/ton | | | |
| | | Dark green, medium-grained, prorly_bedded, trace pyrite, | | | | | | | | |
| _ | | chloritic with white sub-rounded feldspar porphroblasts | | | | | | | | |
| | | (1-2%) | | | | | | | | |
| | | 208.3' - 208.7' - Intermediate tuff | | | | | | | <u> </u> | |
| | | Gradational conformable out contact. | - | | | | | | | |
| | | | | | | - | | | | |
| 211 7 | 223.3 | Intermediate Tuff | | | | | | * | | |
| 211.7 | 223.3 | Intelmediate lair | _ | | | | | | | |
| | | Dark green, fine-grained, finely-bedded sericitic and | _ | | | | | | | |
| | | chloritic with traces of pyrite. Bedding at 60° to C.A. | | | | | | | | |
| | | 5-10% syngenetic fine-grained pyrite beds from 219.8' - | 9077 | 219.8 | 220. | 7 0.9 | 0.010 | | | |
| | | 220.7'. | | | | | | | | |
| | | Sharp out contact. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| DIAMO | OND DRILL RECORD | LOGGED BY _ | D. Constab | le | CONSTABLE CONSULTING INC. | |
|-----------|-------------------------------|------------------|---------------------------|---------------|-----------------------------|---------------|
| | KAPLAN - MALLARD TOWNSHIP | | | | D.D.H. No. AIM-83-4 | PAGE6/9 |
| LATITUDE | LINE 56 + 00 EBEARING OF HOLE | GRID NORTH (03 | 36 ⁰) STARTED | NOV. 24, 1983 | CLAIM No. P-1 | 545433 |
| DEPARTURE | 2 + 00 EDIP OF HOLE | -45 ⁰ | COMPLETED_ | NOV. 27, 1983 | $\frac{3}{2}$ DIRECTION AND | DISTANCE FROM |
| ELEVATION | DIP TESTS | NONE | DEPTH | 500.0' | NE. CLAIM POST | |

THE REPORT OF THE PARTY OF THE

| TAGE | D T C O D I D T I O N | SAMPLE | F00 | TAGE | SAMPLE | | | ASSAY | | |
|-------|--|--|--|--|---|---|--|---|---|--|
| ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | | | |
| 250.3 | Mafic Tuff | | | | | | | | | |
| | | | | | | | | | | |
| | Dark green, medium-grained, poorly to indistinctly bedded. | <u> </u> | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | Traces of pyrite, chloritic with 2-5% white-yellow | | | | | | ļ | ļ | ļ | |
| | irregular quartz/feldspar veins present subparallel to | | | | | | _ | | | |
| | bedding. Biotitic books (up to 2%) are infrequently present. | | | | | | | | | |
| | Gradational out contact. | | | | | | _ | - | | · is |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 262.3 | Intermediate Tuff | | | | | | | | | |
| | Valium to damb groom fine grained finely to morely | | | | | | | | | |
| | medium to dark green, line-grained, linery to poorly- | | | | | | | | | |
| | bedded. Bedding at 650 to C.A. Bedding faces contain | | | | | | | | | |
| | a lineation. | | | | | | 1 | | | |
| | Gradational out contact. | | | | | | | | | |
| | | | | | | | - | | | |
| | | | | | | | | | | |
| | TO 250.3 | Description 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly-bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. | DESCRIPTION No. 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. | DESCRIPTION DESCRIPTION No. FROM Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. | DESCRIPTION DESCRIPTION Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. Gradational out contact. Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. | DESCRIPTION No. FROM TO LENGTH 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. | DESCRIPTION No. FROM TO LENGTH Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. | DESCRIPTION No. FROM TO LENGTH 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. | To DESCRIPTION No. FROM TO LENGTH 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Bedding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. | DESCRIPTION No. FROM TO LENGTH 250.3 Mafic Tuff Dark green, medium-grained, poorly to indistinctly bedded. Traces of pyrite, chloritic with 2-5% white-yellow irregular quartz/feldspar veins present subparallel to bedding. Biotitic books (up to 2%) are infrequently present. Gradational out contact. 3262.3 Intermediate Tuff Medium to dark green, fine-grained, finely to poorly- bedded. Redding at 65° to C.A. Bedding faces contain a lineation. Gradational out contact. |

| DIAMOND D | RILL RECORI | LOGGED BY | D. Constable | | CO | NSTABLE CONSULTING INC. |
|-----------------------|-------------------|------------------|----------------------------|----------|------|------------------------------|
| PROPERTYKAPLAN - MAL | | | | | | D.D.H. No. AIM-83-4 PAGE 7/9 |
| LATITUDE LINE 56 + 00 | E BEARING OF HOLE | GRID NORTH (| 036 ⁰) STARTED | NOV. 24, | 1983 | CLAIM No. P-545433 |
| DEPARTURE2 + 00 | E DIP OF HOLE | -45 ⁰ | COMPLETED_ | NOV. 27, | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | NONE | DEPTH | 500.01 | | NE. CLAIM POST |

| F00 | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | · · · · · · · · · · · · · · · · · · · | ASS | AY | |
|-------|-------|--|--------|------|------|--------|---------------------------------------|-----|----|----------|
| FROM | TO | DESCRIPTION | No. | FROM | то | LENGTH | | | | |
| 262.3 | 310.6 | Mafic Tuff | | | | | | | | |
| | | | | | | | | | | |
| | | Dark green, medium to coarse-grained, poorly to indistinctly | | | | | | | | |
| | | bedded. Traces of pyrite. Chloritic with biotitic books | | | | | | | | |
| | | in places. | | | | | | | | |
| | | 286.8' - 290.0' - intermediate tuff | | | | | | | | |
| | | 292.3' - 293.2' - white quartz vein | | | | | | | | |
| | | Gradational conformable out contact. | • | | | | | | | |
| | | | | | | | | | | |
| | | • | | | | | | | | |
| 310.6 | 348.2 | Intermediate Tuff | | | | | | | | <u> </u> |
| | | Medium-green, fine-grained, finely-bedded. Trace pyrite, | | | | | | | | |
| | | sericitic with chloritic sections. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 348.2 | 371.5 | Mafic Tuff | | | | | | | | |

| DIAN | OND DRI | LL RECORE | LOGGED BY D. | . Constable | CONSTABLE CONSULTING INC. |
|-----------|----------------|-----------------|------------------|-------------------------|-------------------------------|
| PROPERTY | KAPIAN - MALIA | | | | D.D.H. No. AIM-83-4 PAGE 8 /9 |
| LATITUDE | LINE 56 + 00E | BEARING OF HOLE | GRID NORTH (036° | O) STARTED NOV.24, 1983 | CLAIM No. P-545433 |
| DEPARTURE | 2 + 00E | DIP OF HOLE | -45 ⁰ | COMPLETED NOV. 27, 198 | 3 DIRECTION AND DISTANCE FROM |
| ELEVATION | | _ DIP TESTS | NONE | DEPTH500.0' | NE. CLAIM POST |

| F00 | TAGE | 0.76001.071.04 | SAMPLE | F00 | TAGE | SAMPLE | | | ASSAY | | |
|-------|-------|--|--------|------|------|--------|---|---|-------|---|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | | | | | |
| 371.5 | 419.0 | Intermediate Agglomerate | | | | | | | | | |
| | | · | | _ | | | | | | | |
| | | Medium-green, fine-grained matrix with poor to good bedding, | | | | | | | | | |
| | | agglomeritic fragments comprise 40% of the sections and | | | | | | | | ļ | |
| | | consist of 1-2" diameter sub-rounded white feldspars, matrix | | | | | | | | | |
| | | material is almost sericite schist. Bedding at 50% to C.A. | | | | | | | | | |
| | | 384.6' - 394.7' - Mafic Tuff | | | | | | | | | |
| | | Sharp out contact. | ļ | | | | | - | | | |
| | | | | | | | | ļ | | | |
| | | • | | | | | | | | | |
| 419.0 | 452.0 | Mafic Tuff | | | | | | | | | |
| | | | | | | | | | | | |
| | | Dark green, medium to coarse-grained, poor to indistinct | | | | | | | | | |
| | | bedding. Traces of pyrite. | | | | | | | | | |
| | | At 448.0' bedding is 90° to C.A. | | | | | | | | | |
| | | Gradational out contact. | | | | | - | | | | |
| | | | | | | | | | | | |

| DIAM | OND DRILL RECORD | LOGGED BY D. | Constable | 9 | CONSTABLE CO | ONSULTING INC. | |
|-----------|--------------------------------|-------------------|-----------|----------|--------------|---------------------|---------------|
| PROPERTY | KAPLAN - MALLARD TOWNSHIP | | ···· | | | D.D.H. No. AIM-83-4 | PAGE |
| LATITUDE | LINE 56 + 00 E BEARING OF HOLE | GRID NORTH (036°) | STARTED_ | NOV. 24, | 1 | [A | .545433 |
| DEPARTURE | 2 + 00 E DIP OF HOLE | -45 [°] | COMPLETE | NOV. 27, | 1983 | DIRECTION AND | DISTANCE FROM |
| ELEVATION | DIP TESTS | NONE | DEPTH | 500.0' | | NE. CLAIM POST | |

| F00 | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | |
|-------|------|--|----------|-------|----------|--------|--------------|-------|------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | Au oz/ton | | |
| 452.0 | | Intermediate Tuff | | | _ | | | | |
| | | | | | | | | | |
| | | Medium to dark green, fine to medium-grained, finely-bedded, | | | | | | | |
| | | sericitic with chloritic sections and feldspar porphro- | | | | | | | _ |
| | | blasts (< 2 %) | | | _ | | | | |
| | | 489.0' - 492.0' - grey colored tuff, trace pyrite | ļ | | | | | | |
| | | 492.0' - 497.0' - grey-white, felsic tuff with clear | 9078 | 493.7 | 497.0 | 3.3 | 0.008 | | |
| | | quartz eyes. Traces of pyrite as blebs | | | <u> </u> | | | | |
| | | of pyrite. Subvolcanic porphyry unit. | | | | | | | |
| | | • | | | | | | | |
| | | 497.0' - 500.0' - Mafic tuff, chloritic. Bedding is at | <u> </u> | | | | | | |
| | | 85° to C.A. | | | | | | | |
| | | ASSOCIATION | | | | | | | |
| | | E payo & construct / S | ļ | | | | | | |
| | | The state of the s | ļ | | | · | | | |
| | | 500.0' END OF HOLE AIM-83-4 | | | | | | | |
| | | | | | | | | | |

| DIAMOND DRILL RECOR | LOGGED BY D. Constable CONS | STABLE CONSULTING INC. |
|--|--|------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PRO | | D.D.H. No. AIM-83-5 PAGE 1/4 |
| LATITUDE Line 8 + 00 W BEARING OF HO | LE Grid North (036°) STARTED DEC. 17, 1983 | CLAIM No. P-548437 |
| DEPARTURE 23 + 00 S DIP OF HOLE | -45 ⁰ COMPLETED DEC.20, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS | DEPTH500.0' | NE. CLAIM POST |

| F00 | TAGE | 0.5000.00 | SAMPLE | F001 | | SAMPLE | Au | ASSAY | | |
|------|-------|--|--------------|----------------|------------------------|------------|--------|--------------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | | |
| 0 | 70.5 | CASING | | | | | | | | |
| | | | | | | | | | | |
| 70.5 | 88.7 | Diorite | | | | | | | | |
| | | Salt and pepper color, medium-grained, 60% feldspar | | | | | | | | |
| | | 40% ferro-magnesian, nil to trace pyrite. Extremely | | | | | | | | |
| | | blocky. | | | | | | | | |
| | | Intrusive, baked, out contact. | | | | | | | <u> </u> | |
| | | • | | | | | | | | |
| 88.7 | 150.0 | Cherty Iron Formation | | | | | | | | |
| | | Black to brick-red, extremely fine-grained, graphitic on | 9274 | 89.2 90.0 | 93.0 | 0.8 | 0.020 | | | |
| | | fractures at contact for 4". Finely bedded, with | 9275 9276 | 93.0 96.0 | 96.0 99.0 | 3.0 3.0 | 0.012 | | | |
| | | alternating pale green/brick red beds. Bedding is at 650 | | 99.0 102.0 | 102 0 105 <u>.0</u> | 3.0 | 0.008 | | | |
| | | to C.A. Nil to trace pyrite. Epidotized in splashes and | 9279 9280 | 105.0 108.0 | 108.0 | 3.0 | 8:815 | | | |
| | | along fractures. | | | | | | <u> </u> | | |

| DIAN | MOND DRILL R | ECORD L | OGGED BY D. (| Constable | | | CONSTABLE CONSULTING INC. |
|-----------|-----------------------|------------------|---|-----------|---------------|------|------------------------------|
| t e | KAPLAN - Mallard Town | | V-10-10-10-10-10-10-10-10-10-10-10-10-10- | | (| | D.D.H. No. AIM-83-5 PAGE 2/4 |
| LATITUDE | Line 8 + 00 W BEARIN | G OF HOLE Grid N | North (036 ⁰) | STARTED | DEC. 17, | 1983 | CLAIM No. P-548437 |
| DEPARTURE | 23 + 00 S DIP OF | | | | DEC. 20, | | i Ni |
| ELEVATION | DIP TE | ESTS | | _DEPTH | 500.0' | | NE. CLAIM POST |

| | TAGE | DECCDIRTION | SAMPLE | | TAGE | SAMPLE | Au | Cu | ASSAY | |
|-------|-------|--|--------------|----------------|----------------|------------|-------|-------|-------|------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/to | n % | | |
| | | By 93' unit becomes brecciated and hematized. | | | | | | | | |
| | | | 1 | | | 1 | 0.009 | | | |
| | | By 99' unit has become a hematized felsic tuff with | 9269 | 116.0 | 119.0 | 3.0 | 0.009 |) | | |
| | | feldspar phenocrysts (porphroblasts?) comprising up to | 9270 9271 | 119.0 122.0 | 122.0 125.0 | 3.0 3.0 | 0.017 | 7 | | |
| | | 10% of the rock. | 9272 9273 | 125.0 128.0 | 128.0 129.0 | 3.0 1.0 | 0.006 |) | | |
| | | | | | | | | | | |
| | | | 9261 | 130.0 | 132.1 | 2,.,1 | 0.017 | | | |
| | | 132.2' - 132.8' - epidotized patch with quartz, pyrite | | 132.1 | 133.0 | 0.9 | 0.013 | 1.72% | \$ | |
| | | and 5% chalcopyrite. | 9263 | 134.6 | 137,6 | 3.0 | 0.007 | | | |
| | | • | 9264 | 137.6 | 140.6 | 3.0 | 0.014 | | | 44 |
| | | 147.7' - 150.0' - Intermediate tuff. | 9265 | 140.6 | 143.6 | 3.0 | 0.009 | | | |
| | | | 9266 | 143.6 | 144.3 | 0.7 | 0.017 | | | |
| | | | | | | | | | | |
| 150.0 | 290.0 | Diorite (Dumped Box?) | | | | - | | | | |
| | | · | | | | | | | | |
| | | Salt and pepper colour, medium-grained, nil sulfides. | | | | ·. | | | | |
| | | | | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY 5. CO | stable CONSTABLE CONSULTING INC. | |
|---|-------------------------------------|---------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. N ₀ . A IM-83-5 | PAGE 3/4 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (0360) ST | RTED DEC. 17, 1983 CLAIM No. P-54 | 8437 |
| DEPARTURE 23 + 00 S DIP OF HOLE CO | APLETED DEC. 20, 1983 DIRECTION AND | DISTANCE FROM |
| ELEVATION DIP TESTS DE | PTH 500.0' NE. CLAIM POST | |

| F00 | TAGE | DECEDIATION | SAMPLE | F00 | TAGE | SAMPLE | Au | | ASSAY | |
|-------|-------|---|--------------|----------------|----------------|--------|----------------|-------------|-------|------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/ton | | | |
| | | 230.0' - 250.0' - finer-grained phase of diorite. | | | | | | | | |
| | | Sharp out contact. | | | | | | | | |
| | | | | | | | | | | |
| 290.0 | 310.0 | Interbedded Intermediate and Felsic Tuff | ī. | 298.7 301.7 | | 1 | ; I | | | |
| 250.0 | 320.0 | Grey to black to medium-green, fine to medium-grained, | 9259 | 304.7 307.7 | 307.7 | 3.0 | 0.013 | | | |
| | | finely-bedded at 58° to C.A. Nil to trace pyrite. | | 310.0 | | | 0.005 | | | |
| | | | 1 | 310.6 | | 1 | 0.010 | | | |
| | | | 9251 | 312.8 315.8 | 315.8 | 3.0 | 0.013 | | | |
| 310.0 | 410.0 | Intermediate Tuff | 9254 | 318.8 321.8 | 324.8 | 3.0 | 0.010 | | | |
| | | | 9255 9256 | 324.8 327.8 | 327.8 330.0 | 3.0 | 0.008 0.012 | | | |
| | | Medium-green, medium to fine-grained, poorly to well- | 9247 | 330.0 | 333.0 | 3.0 | 0.007 | | | |
| | | bedded. Nil to traces of pyrite in euhedral cubes. | 9248 | 333.0 | 335.0 | 2.0 | 0.013 | | | |
| | | Chloritic. Minor feldspar porphroblastic sections are | 9244 | 350.0 | 353.0 | 3.0 | 0.009 | | | |
| | | present. | 9245 | 353.0 | 356.0 | 3.0 | 0.010 | | | |
| | | By 343.0' unit becomes spotted with dark chlorite clots (25%) | - 9246 | 356.0 | 358.6 | 2.6 | 0.014 | - | | |
| | | | | | - | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Constable CONSTAB | BLE CONSULTING INC. |
|--|-----------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. N&IM-83-5 PAGE 4/4 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED DEC. 17, 1983 | CLAIM No. P-548437 |
| DEPARTURE | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH 500.0' | NE. CLAIM POST |

| F00 | TAGE | DESCRIPTION | SAMPLE | | | SAMPLE | Au | | ASSAY | |
|-------|-------|--|--------------|----------------|----------------|--------|------------------------|---|-------|---|
| FROM | ТО | DESCRIPTION | No. | FROM | | | oz/to | n | | |
| 410.0 | 500.0 | Felsic Tuff | | 410.0 | | | 3 | | | |
| | | | 7242 | 313.0 | 710.0 | - J | | | | |
| | | Tan to pink to medium-green, fine-grained, finely_bedded | 1 - | 429.1 | | | 0.005 | | | |
| | | at 71° to C.A. Hematized, sericitic. Box appears to have | 1 | 430.0 431.0 | | 1.0 | 1 1 | | | |
| | | been emptied and core lost - approximately 2 feet lost. | 9236 | 432.0 433.0 | 436.0 | 3.0 | 0.054 | | | |
| | | Trace pyrite. | 9238 | 436.0 437.0 | 439.0 | 2.0 | | | | |
| | | | 9240 | 439.0 440.0 | 443.0 | 3.0 | 0.012 0.181 0.01 | | | |
| | | From 430.9' - 432.9' - white quartz vein with traces of | 9301 9302 | <u> </u> | 449.0 | 3.0 | 0.001 | 7 | _ | , |
| | | pyrite. | 9303 9304 | | 450.0 450.8 | | 0.34 | | | |
| | | • | 9225 9226 | 450.8 452.6 | 452.6 454.4 | 1.8 | 0.021 | | | |
| | | From 457.1' - 458.1' - hematized pyritized felsic tuff | 9227 9228 | 454.4 457.4 | 457.4 458.6 | 3.0 | 0.012 | | | |
| | | section with 1% pyrite (disseminated). | 9229 | 458.6 | 461.6 | 3.0 | 0.003 | | | |
| | | SSOCIATION | 9230 | 461.6 | 464.6 | 3.0 | 0.015 | | | |
| | | | 9231 | 464.6 | 467.6 | 3.0 | 0.007 | | | |
| | | S DOID W. CONSTABLE | 9232 | 467.6 | 470.0 | 2.4 | 0.007 | | | |
| | | 500.0' - END OF HOLE AIM-83-5 | 9224 | 489.0 | 490.0 | 1.0 | 0.022 | | | |
| | | FELLOW | 9223 | 490.0 | 491.4 | 1.4 | 0.005 | | | |

| DIAMOND DRILL RECORD | LOGGED BY D. | Constable | CONSTA | BLE CONSULTING INC. |
|--|------------------|------------|--------------|-----------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPE | TY BQ | CORE | | D.D.H. No PAGE 1/3 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE | RID NORTH (036°) | STARTED | DEC. 4, 1983 | CLAIM No |
| DEPARTURE 19 + 00 S DIP OF HOLE | | COMPLETED_ | DEC.12, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS | | DEPTH | 500.0' | NE. CLAIM POST |

| FOOTAGE | | DESCRIPTION | | | TAGE | SAMPLE | Au | | ASSAY | | |
|---------|-------|--|------|-------|-------------|-------------|-------|--------------|-------|--|--|
| FROM | TO | DESCRIPTION | No. | FROM | TO | LENGTH | oz/to | 1 | | | |
| 0 | 39.0 | CASING | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 39.0 | 85.3 | Mafic Tuff | | | | | | | | | |
| | | | | | | | | | | | |
| | | Black to dark green, similar to the mylonitized unit in | | | | | | | | | |
| | | hole AIM-83-8 from 338.2' - 368.7' except this unit is | | | | | | | | | |
| | | more competent but blocky. Poorly-bedded, medium-grained | | | | | | | | | |
| | | brecciated in places with several inch long angular | | | | | | | | | |
| | | fragments seen throughout the unit. Nil to trace pyrite. | | | | | ļ | | | | |
| | | Sharp conformable out contact. | | | | | | | - | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 85.3 | 328.3 | Intermediate Tuff | | | | | | | | | |
| | | | | | - | | | | | | |
| • | | Green to grey-green, fine to medium-grained, poorly to well- | | 150.6 | | | 0.008 | | | | |
| | | bedded at 36° to C.A. Nil to trace pyrite. Chloritic with | 9129 | 153.6 | 154.0 | 0.4 | 0.007 | | | | |

| DIAMOND DRILL RECORD LOGGED BY |). Constable | CONSTABLE CONSULTING INC. |
|---|------------------------|----------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | | D.D.H. No. AIM-83-6 PAGE 2/3 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (03 | 36°) STARTEDDEC. 4 , 1 |) |
| DEPARTURE 19 + 00 S DIP OF HOLE -45° | COMPLETED DEC. 12, 1 | .983 DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS | DEPTH 500.0' | NE. CLAIM POST |

| FOOTAGE | | DESCRIPTION | | F00 | TAGE | SAMPLE | | | ASSAY | | |
|---------|-------|---|------|-------|-------|--------|--------------|--|-------|--|---------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/tor | | | | |
| | | minor sericite. | | | | | | | | | |
| | | minor sericite. | | | | | | | | | |
| | | By 194.0' bedding is at 53% to C.A. | | | | | | | | | |
| | | From 245' onwards 2-3% of the core is < 1 cm-wide | | | | | | | | | |
| | | white quartz-carbonate veins (barren). | | | | | | | | | |
| | | 311.0' - 321.0' - medium-grained mafic tuff section. | 9149 | 297.0 | 299.0 | 2.0 | 0.010 | | | | |
| | | Sharp conformable out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 328.3 | 455.4 | Felsic Tuff | | | | | | | | | |
| | | · | 9143 | 341.5 | 344.5 | 3.0 | 0.011 | | | | |
| | | Grey to grey-green, fine-grained, finely_bedded, sericitic | 9144 | 344.5 | 347.5 | 3.0 | 0.013 | | | | |
| | | and trace to nil pyrite. | 9145 | 347.5 | 350.0 | 2.5 | 0.005 | | | | |
| | | 340.0' onwards rock is crackled with minute fractures and | 9138 | 357.2 | 359.0 | 1.8 | 0.008 | | | | |
| | | from 345.5' - to 396.0' rock is crackled and hematized. | 9142 | 384.8 | 386.6 | 2.8 | 0.011 | | | | |
| | | from 396.0' onwards rock is still crackled but not hematized. | 9136 | 410.0 | 412.3 | 2.3 | 0.015 | | | | |
| | | from 418.0' - 421.1' hematized and crackled with quartz | 9137 | 418.0 | 421.0 | 3.0 | 0,021 | | | | |
| | | veining. | | | | | | | | | |

| DIAM | OND DRI | LL RECORD | LOGGED BY D. | Constable | c | ONSTABLE CONST | ULTING INC. |
|-----------|------------------|-------------------|------------------|--------------|---------------|----------------|---------------------------------|
| PROPERTY | KAPLAN - Mallard | d Township Proper | rty | | | f | D.D.H. No. AIM-83-6 PAGE 3/3 |
| LATITUDEI | LINE 8 + 00 W | BEARING OF HOLE_ | GRID NORTH (036° | _STARTED | DEC. 4 , 1983 | | CLAIM No. P-548437 |
| DEPARTURE | 19 + 00 S | DIP OF HOLE | -45 ⁰ | _ COMPLETED_ | DEC. 12, 1983 | | The DIRECTION AND DISTANCE FROM |
| ELEVATION | | DIP TESTS | | DEPTH | 500.01 | | NE. CLAIM POST |

| FOO | TAGE | D.C.C.O.L.D.T.LO.W | SAMPLE | FOOT | | SAMPLE | Au oz/to | | ASSAY | |
|-------|-------|--|----------------------|-------|-------|----------------|-------------------------|---------------------------------------|-------|------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | OZ/to | n | | |
| | | from 428.6' - 432.5' hematized and crackled with trace | 9130 | 428.6 | 431.6 | 3.0 | 0.013 | | | _ |
| | | to 1% pyrite blebs. | 9131 9132 9133 | 441.2 | 444 | 5 1.0 2 3.0 | 0.010 0.014 0.011 | | | |
| | | from 441.3' - 448.0' hematized and crackled with 1% pyrite | 9133 9126 | 444.2 | 447. | 3.0 5 0.4 | 0.011 | | | |
| | | along fractures. | 9127 | 447.6 | 450. | 3.0 | 0.010 | · · · · · · · · · · · · · · · · · · · | | |
| | | Sharp conformable out contact. | | | | | | | | |
| | | | | | | | | | | |
| 455.4 | 500.0 | Intermediate Tuff | | | | | | | | |
| | | | 9124 | 496.6 | 498. | 5 2.0 | 0.008 | | | |
| | | Dark-green, fine to medium-grained, finely to poorly- | | | | | | | | |
| | | bedded. | | | | ļ | | | | |
| | | | | | | <u> </u> | | | | |
| | | SSOCIATION | | | | | | | | |
| | | | | | | | | | | |
| | | g prid yr. construct 1 | | | | | | | | |
| | | 500.0' END OF HOLE AIM-83-6 | | | | | | | · | |
| | | FELLOW | | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Const | able CONSTABLE CONSULTING INC. |
|--|---|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY BQ CORE | D.D.H. No. AIM-83-7 PAGE 1/6 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036°) START | ED DEC. 13, 1983 CLAIM No. 135' in P.548437 |
| DEPARTURE 15 + 00 S DIP OF HOLE -450 COMPL | DEG 16 1002 |
| ELEVATION DIP TESTS DEPTH | 550.0' NE. CLAIM POST |

The second of th

| F00 | TAGE | D.C.C.O.D.I.D.T.I.O.W | SAMPLE | F00 | TAGE | SAMPLE | Au | ***** | ASSAY | | |
|------|------|---|--------|----------|------|----------|--------|---------------------------------------|-------|---|--|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | oz/tor | | | | |
| 0 | 11.0 | CASING | | | | | | | | | |
| | | | | | | | | | | | |
| 11.0 | 31.0 | Argillite | | | | | | | | | |
| | | Olive green, fine-grained, poorly-bedded, soft, massive | | | | | | | | | |
| | | rock with a poor foliation. | | | | | | | | | |
| | | | | | | | | | | | |
| 31.0 | 93.2 | Argillite and Interbedded Intermediate Tuff | | | | | | | ļ | ļ | |
| | | • | | | | | | | | | |
| | | Medium green, very fine-grained to fine-grained, well- | | | | | | | | | |
| | | bedded, bedding is at 42° to C.A. but rolls to a | | <u> </u> | | | | · · · · · · · · · · · · · · · · · · · | | | |
| | | lower angle (down to 20°), Chloritic. | | | ļ | <u> </u> | | | | | |
| | | 39.1' - 48.6' - 1-2% pyrite along beds | 9118 | 39.0 | 40.0 | 1.0 | 0.006 | - 44 0, | | | |
| | | | 9119 | 42.4 | 45.4 | 3.0 | 0.032 | | | | |
| • | | 49.7' - 50.2' - grey hard fine-grained chert | 9120 | 45.4 | 48.4 | 3.0 | 0.012 | | | | |
| | | | 9121 | 48.4 | 48.7 | 0.3 | 0.013 | | | | |

| DIAMOND DRILL RECORD LOGGED BY D | . Constable | CONSTABLE CONSULTING INC. |
|---|-------------------|------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | | D.D.H. No. AIM-83-7 PAGE 2/6 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NORTH (036° |) STARTED DEC. 13 | 1 1 4 3251 4 5 540427 |
| DEPARTURE 15 + 00 S DIP OF HOLE -45° | COMPLETED DEC. 16 | |
| ELEVATION DIP TESTS | DEPTH550.0' | NE. CLAIM POST |

| | TAGE | DECODIDATION | SAMPLE | | TAGE | SAMPLE | Au | A | SSAY | | |
|------|-------|--|--------|-------|-------|--------|--------|---|------|--|--------------------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/ton | | | | |
| | | 65.2' - 70.4' - 1-2% pyrite | 9114 | 62.4 | 65.4 | 3.0 | 0.009 | | | | |
| | | | 9115 | 65.4 | 68.4 | 3.0 | 0.015 | | | | |
| | | 70.4' - 95.2' - medium grained mottled white and green | 9116 | 68.4 | 71.1 | 2.7 | 0.006 | | | | |
| | | intermediate tuff, blocky and very soft. | | | | | | | | | |
| | | | | | | | | | | | <u>.</u> . <u></u> |
| | | 95.2' - 92.3' - grey to grey-black, fine-grained, | | | | | | | | 5 55 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | |
| | | finely-bedded chert unit. | | | | | | | | | |
| | | | | | | | | | | | |
| 93.2 | 112.7 | Felsic Tuff | 91.00 | 25.0 | 00.0 | 2.0 | 0.015 | | | | |
| 73.2 | 112.7 | | 1 | T | 102.0 | I | 0.015 | | | | <u>,</u> |
| | | Grey, fine-grained, siliceous, hard, massive, sericitic, | 9111 | 102.0 | 105.0 | 3.0 | 0.015 | | | | |
| | | finely-bedded, trace to 2% disseminated pyrite to semi- | 9112 | 105.0 | 106.6 | 1.6 | 0.015 | | | | |
| | | massive pyrite beds 1"-wide. | ļ | | | | | | | | |
| | | | | | · | | | | | | |
| | | | | , | | | | | | | |
| | | | | | | | | | | | |

| DIAMOND DRII | LL RECORD LOGGED BY D. | Constable CON | NSTABLE CONSULTING INC. |
|------------------------|-----------------------------------|-------------------------|--|
| | TOWNSHIP PROPERTY | | D.D.H. No PAGE _3/6 |
| LATITUDE LINE 8 + 00 W | BEARING OF HOLE GRID NORTH (036°) | STARTEDDEC. 13, 1983 | 135' in P.548437 CLAIM No. 415' in P.548438 |
| DEPARTURE 15 + 00 S | DIP OF HOLE | COMPLETED DEC. 16, 1983 | |
| ELEVATION | DIP TESTS | DEPTH 550.0' | NE. CLAIM POST |

| F00] | TAGE | DECCOURTION | SAMPLE | F001 | AGE | SAMPLE | Au | | ASSAY | <u> </u> | |
|-------|-------|---|------------|-------|-------|--------|-------|----------|-------|----------|--------------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/to | n | | | |
| 112.7 | 143.0 | Intermediate Tuff | | | | 1 | | | | | |
| | | Medium green, fine to medium-grained, chloritic, massive, | | | | | | | | | |
| | | average hardness, well-bedded at 54° to C.A. Traces of | | | | | , | <u> </u> | | | |
| | | coarse euhedral pyrite crystals present. | | | | | | | | | |
| | | Gradational out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 143.0 | 324.5 | Mafic Tuff (Flow?) | ļ | | | | | | | | |
| | | Dark to medium green, medium-grained, no bedding, massive | | | | | | | | | |
| | | soft rock, trace to nil pyrite, chloritic& ampibolites compri | s e | | | | | | • | | ļ |
| | | 15-25% of the rock, epidotized along fractures. | | | | | | | | ļ | |
| | | At 226.0' 8" white quartz vein - no mineralization visible. | 9122 | 227.5 | 230.5 | 3.0 | 0.010 | | | | |
| | | | 9123 | 230.5 | 231.4 | 0.9 | 0.013 | | | | |
| | | From 227.5' - 229.9' coarse cubes of pyrite and very minor | | | | | | | | | |
| | | chalcopyrite (2%) | | | | | | | | | |
| | | | | | | | | | | | |

| DIA | MOND DR | | LOGGED BY D. | Constable | | CONSTABLE C | CONSULTING INC. |
|------------|-----------------|----------------------|--------------|-------------|------------|-------------|--|
| PROPERTY | KAPLAN - MALLAF | RD TOWNSHIP PROPERTY | | | | | D.D.H. No. AIM-83-7 PAGE 4/6 135' in P.548437 |
| | LINE 8 + 00 W | | | STARTED | Dec. 13, 1 | 1983 | 135' in P.548437 CLAIM No. 415' in P.548438 |
| DEPARTURE | 15 + 00 S | DIP OF HOLE | 0 | _ COMPLETED | Dec. 16, 1 | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION_ | | DIP TESTS | | DEPTH | 550.0' | | NE. CLAIM POST |

| F00 | TAGE | DECORPTION | SAMPLE | F00 | TAGE | SAMPLE | Au oz/ton | ASSAY | , | |
|-------|-------|---|----------|-------|-------|--------|--------------|-------|---|--|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/ton | | | |
| 324.5 | 398.0 | Diorite | 9117 | 324.5 | 325.5 | 1.0 | 0.006 | | | |
| | | | 9113 | 325.5 | 327.8 | 2.3 | 0.009 | | | |
| | | Starts with a 2-3-ft. wide fine-grained pyritic (2%) chill | | ļ | | | | | | |
| | | zone. Unit is salt and pepper, medium-grained, massive, nil | | ļ | | | | | | |
| | | to trace sulfides. Composed of 45% feldspar, | | | | | | | | |
| | | 55% ferro-magnesian minerals. | | | | | | | | |
| | | | 9300 | 393.8 | 395.8 | 3.0 | 0.020 | | | |
| | | 394.0' - 398.0' black, fine-grained chill zone | 9101 | 395.8 | 397.6 | 2.8 | 0.017 | | | |
| | | 1-2% fine-grained disseminated pyrite | | | | | | | | |
| | | present. | <u> </u> | | | | | | | |
| | | | | | | | | | | |
| | | | <u> </u> | | | | | | | |
| 398.0 | 484.4 | Mafic Tuff | 9299 | 431.3 | 435.8 | 2.5 | 0.008 | | | |
| | | | ļ | | | | | | | |
| | | Mottled dark to medium-green, medium-grained, poorly | | | | | | | | |
| | | bedded, trace to nil pyrite and traces of chalcopyrite. | | | | | | | | |
| | | · | | | | | | | | |

| DIAMOND DRILL RECORD LOG | GGED BY D. Constable | CONSTABLE CO | NSULTING INC. |
|---|---------------------------------|---------------|------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | | | D.D.H. No. AIM+83-7 PAGE 5/6 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID NOT | RTH (036 ⁰) STARTED | Dec. 13, 1983 | CLAIM No135' in P.548437 |
| DEPARTURE15 + 00 S DIP OF HOLE45° | COMPLETED_ | Dec. 16, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS | DEPTH | 550:0' | NE. CLAIM POST |

| FOOTAGE | D.C.C.O.L.D.T.L.O.M. | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | ······································ |
|-------------|--|--------------|----------------|----------------------------------|------------|-------------------------|-------|--|
| FROM TO | DESCRIPTION | No. | FROM | то | LENGTH | oz/ton | | |
| 484.4 539.9 | Argillite | | | | | | | |
| | | | | | | | | |
| | Medium green, fine-grained, finely bedded at 51° to C.A. | | | 487.0 490.0 | | 0.015 0.017 | | |
| | Trace to 1% pyrite in euhedral crystals and along quartz | 9284 | 490.0 | 493.0 | 3.0 | 0.017 | | |
| | fractures. | 9286 9287 | 496.0 | 499.0 | 3.0 | 0.009 0.012 0.009 | | |
| | | 3233 | 501.8 | 499.0 501.8 505.0 508.0 | 3.0 3.0 | 0.009 0.009 0.012 | | |
| | at 492.5' narrow (1/8") seam of chalcopyrite and quartz. | 9294 9295 | 508.0 511.0 | 511.0 514.0 | 3.0 | 0.006 | | |
| | | 9296 | 514.0 | 517.0 520.0 | 3.0 | 0.020 | | |
| | at 519.5' narrow (1/8") seam of chalcopyrite and quartz. | 9298 | 520.0 | 521.2 | 1.2 | 0.008 | | |
| | | 9102 | 522.0 | 525.0 | 3.0 | 0.009 | - | |
| | at 533.8' ½" wide quartz and chalcopyrite vein. | 9103 | 525.0 | 5 28.0 | 3.0 | 0.009 | | |
| | | 9104 | 528.0 | 531.0 | 3.0 | 0.015 | | |
| | | 9105 | 531'-0 | 534.0 | 3.0 | 0.009 | | |
| | | 9106 | 534.0 | 537.0 | 3.0 | 0.006 | | |
| | | 9107 | 537.0 | 540.0 | 3.0 | 0.012 | | |
| | | 9108 | 540.0 | 541.4 | 1.4 | 0.009 | | |
| | | 9288 | 541.4 | 543.0 | 1.6 | 0.005 | | - |

| DIAMOND DRILL RECORD | LOGGED BY D. Constable | CONSTABLE CO | ONSULTING INC. |
|---|------------------------|---------------|---|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | | | D.D.H. No. AIM-83-7 PAGE 6/6 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE GRID | NORTH (036°) STARTED | Dec. 13, 1983 | CLAIM No. 135' in P.548437 415' in P.548438 |
| DEPARTURE 15 + 00 S DIP OF HOLE -45 | COMPLETED_ | Dec. 16, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS | DEPTH | 550.0' | NE. CLAIM POST |

| F00 | TAGE | DECODIDATION | SAMPLE | | TAGE | SAMPLE | Au | | ASSAY | |
|----------|-------|---|--------|-------|-------|--------|-------------|---------|-------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | Au oz/to | n | | |
| 539.9 | 550.0 | Felsic Tuff | 9289 | 543.0 | 546.0 | | 0.008 | | | |
| | | | 9290 | 546.0 | 549.0 | 3.0 | 0.009 | | | |
| | | Pink to light green, fine-grained, hematized, finely- | 9291 | 549.0 | 549.4 | 0.4 | 0.012 | | | |
| <u>-</u> | | bedded unit with traces of pyrite in euhedral cubes | | | | | | <u></u> | | |
| | | along the bedding. | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | · ASSOCIATIO | | | | | | | | |
| | | 550.0' END OF HOLE AIM-83-7 | | | | | | · | | |
| | | S DIVID IN CONSTABLE TO | | | | | | | | |
| | | 10 10 15 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | | | | | | |
| | | FELLOW | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Constable CONSTABL | E CONSULTING INC. |
|---|------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY BO CORE | D.D.H. No. AIM-83-8 PAGE 1/6 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 7, 1983 | CLAIM No. P-548439 |
| DEPARTURE 4 + 00 S DIP OF HOLE COMPLETED Dec. 10, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH 650.0' | NE. CLAIM POST |

| F00 | TAGE | DECODIDEION | SAMPLE | F001 | | SAMPLE | o2/tqn | ASSAY | | |
|------|-------|--|----------|------|---------------------------------------|--------|--------|-------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | | |
| 0 | 7.0 | CASING | <u> </u> | | · · · · · · · · · · · · · · · · · · · | | | | | |
| | | | | | | | | | | |
| 7.0 | 7.4 | Feldspar Porphyry | | | | | | | | |
| | | Red, hard, massive rock with 35% sub-euhedral white | | | | | | | | |
| | | feldspar phenocrysts, trace pyrite. | | | | | | | | |
| | | | 9185 | 43.3 | 43.5 | 0.2 | 0.010 | | | |
| 7.4 | 116.5 | Intermediate Tuff | 9182 | 52.2 | 52.6 | 0.4 | 0.007 | | | |
| | | | 9178 | 70.0 | 70.7 | 0.7 | 0.005 | | | |
| | | Grey to grey-green, fine-grained, soft, finely to poorly - | 9184 | 76.5 | 77.5 | 1.0 | 0.005 | | | |
| | | bedded at 54° to C.A. sericitic and chloritic. Minor | 9181 | 95.3 | 96.0 | 0.7 | 0.007 | | • | |
| | | 2-5 mm. wide white quartz-carbonate veinlets at irregular | | | - | | | | | |
| | | orientations cut the rock. Trace pyrite. | | | | | | | | |
| | | Gradational conformable out contact | • | | : | | | | <u> </u> | |
| | | | | | | | | | | |

| DIA | MOND DRI | LL RECORD | LOGGED BY D. | Constable | | CONSTABLE CON | NSULTING INC. | |
|------------|------------------|-----------------------|------------------------------|--------------|----------|---------------|------------------------------|---|
| PROPERTY | KAPLAN - MALLARI | TOWNSHIP PROPERTY | | | | | D.D.H. No. AIM-83-8 PAGE 2/6 | , |
| LATITUDE | LINE 8 + 00 W | _ BEARING OF HOLE _GT | id North (036 ⁰) | STARTED | Dec. 7, | 1983 | CLAIM No. P-548439 | |
| DEPARTURE_ | 4 + 00 S | _ DIP OF HOLE | 5 ⁰ | _ COMPLETED_ | Dec. 10, | 1983 | DIRECTION AND DISTANCE FROM | А |
| ELEVATION_ | | _ DIP TESTS | | DEPTH | 650.0' | | NE. CLAIM POST | |

| FOO | TAGE | | SAMPLE | F00 | TAGE | SAMPLE | Au | *************************************** | ASSAY | | · · · · · · · · · · · · · · · · · · · |
|-------|-------|--|--------|------|--------|--------|-------|---|-------|---|---------------------------------------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | | oz/to | n | | | |
| 116.5 | 196.9 | Mafic Tuff | | | | | | | | | |
| | | Dark green, medium to fine-grained, pmorly-bedded, | | | | | | | | | |
| | | chloritic and amphibolitic. Contains 5% irregular quartz- | | | | | | | | | <u></u> |
| | | carbonate veinlets and veins. Trace to nil pyrite. | | | | | | | | | |
| | | Due to metamorphic mineral development unit has a | | | | | | | | | |
| | | spotted appearance. | | | | | | | | | |
| | | At 169.7' white quartz vein with blebs of chalcopyrite. | | | ,,,,,, | | | | | | |
| | | Sharp conformable out contact. | | | | | | | | | |
| | | • | | | | | | | | | |
| 196.9 | 327.6 | Intermediate Tuff | | | • | | | | | | |
| | | Grey to green-grey, fine-grained, finely-bedded, chloritic | 9177 | 249. | 250. | 7 1.0 | 0.007 | | | · | |
| | | and sericitic, trace to nil pyrite. Some minor, sericitic, | | | | | | | | | |
| | | felsic tuff sections are contained in the unit. | | | | | | | | | |
| | | | | | | | | | | | |

| DIA | MOND DRII | LL RECORD | LOGGED BY D. | Constable | | CO | ONSTABLE CONSULTING INC. |
|-------------|---------------|----------------------|---------------------------|-----------|----------|-------------|------------------------------|
| | | TOWNSHIP PROPERTY | | | | | D.D.H. No. AIM-83-8 PAGE 3/6 |
| LATITUDE | LINE 8 + 00 W | BEARING OF HOLE Grid | North (036 ⁰) | STARTED | Dec. 7, | 1983 | CLAIM No. P-548439 |
| | | DIP OF HOLE |) | COMPLETED | Dec. 10, | 1983 | i Ni |
| ELEVATION _ | | DIP TESTS | | DEPTH | 650.0' | | NE. CLAIM POST |

| F00 | TAGE | DECODIDATION | SAMPLE | F00 | | SAMPLE | Au | | ASSAY | | |
|-------|-------|--|----------|-------|----------------|--------|-------|---|--------------|----------|--|
| FROM | ТО | DESCRIPTION | No. | FROM | ТО | LENGTH | oz/to | n | | | |
| | | 249.7' - 250.6' - fine-grained black unit - graphitic | | | | | | | | | |
| | | sediment 1-2% very finely disseminated | | | | | | | | | |
| | | pyrite. | | | | | | | | | |
| | | Gradual conformable out contact. | | | | | | | | | |
| | | | 9168 | 314.0 | 315.9 | 1.9 | 0.011 | | | | |
| | | | _ | | | ļ | | | | ļ | |
| 327.6 | 338.2 | Interbedded Intermediate Tuff and Graphitic Sediments | 9173 | 334.0 | 336. | 2.1 | 0.010 | | | . | |
| | | | | | | | | | _ | | |
| | | Alternating black and green, fine-grained, finely-bedded | | | | | | | | | |
| | | trace to 1% pyrite. | | | | | | | | ļ | |
| | | Sharp chilled contact. | | | | ļ | | | | | |
| | | | <u> </u> | | | | - | | | - | |
| | | | | | | | | | | | |
| 338.2 | 368.7 | Mylonitized Mafic Tuff | | | | | | | | | |
| | | Black to dark green, medium-grained, no bedding | | | | ļ | ļ | | | | |
| | | extensive development of metamorphic chlorite, micas, | | | . - | | | | | | |

| DIAMOND DRI | — + + · · · — | . Constable CO | NSTABLE CONSULTING INC. |
|---------------------------|----------------------------------|-------------------------|------------------------------|
| PROPERTY KAPLAN - MALLARD | TOWNSHIP PROPERTY | | D.D.H. No. AIM-83-8 PAGE 4/6 |
| LATITUDE LINE 8 + 00 W | BEARING OF HOLE Grid North (036° | STARTED Dec. 7, 1983 | CLAIM No. P-548439 |
| DEPARTURE 4 + 00 S | DIP OF HOLE | COMPLETED Dec. 10, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | DEPTH 650.0' | NE. CLAIM POST |

| FOO | TAGE | DECORIDATION | SAMPLE | F00 | | SAMPLE | Au | | ASSAY | | |
|-------|-------|--|--------|-------|-------|----------|-------|----------|-------|----------|----|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/to | <u> </u> | | | |
| | | amphiboles, feldspars and carbonates. Unit begins as | | | | | | | | | |
| | | massive and competent but after 3 feet becomes soft enough | | | | | | | | | |
| | | to break with your fingers. | | | | <u> </u> | | | | | |
| | | Sharp, chilled and apparently | | | | | | | | - | |
| | | conformable out contact. | | | | | | | | | |
| | | | | | | | | | | | |
| 368.7 | 378.0 | Interbedded Intermediate Tuff and Graphitic Sediments | 9169 | 368.6 | 371.6 | 3.0 | 0.008 | | | | |
| | | | | | | | | | | | , |
| | | Alternating black and green, fine-grained, finely | | | | | | | | | |
| | | bedded. By 378. feet, graphitic sediments end. Trace | | | | | | | | | |
| | | to nil pyrite. | | | - | | | _ | | | ٠. |
| | | | | | | | | | - | | |
| | | | | | | | | | | <u> </u> | |
| 378.0 | 468.0 | Intermediate Tuff | | | | | | | | | |
| | | | | | | | | | | | |
| | | Green to grey-green, fine-grained, finely-bedded at 420 to | | | | | | | | | |

| DIAMOND DRI | LL RECORD LOGGED BY D. | Constable | CONSTABLE CONST | JLTING INC. |
|------------------------|-----------------------------------|------------------|-----------------|------------------------------|
| PROPERTY KAPLAN - MALL | | | | D.D.H. No. AIM-83-8 PAGE 5/6 |
| LATITUDE LINE 8 + 00 W | BEARING OF HOLE Grid North (036°) | STARTED Dec | . 7, 1983 | CLAIM No. P-548439 |
| | _ | COMPLETED Dec | | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | DEPTH 650 | .0' | NE. CLAIM POST |

| | TAGE | DESCRIPTION | SAMPLE | L | TAGE | SAMPLE | Au | - | ASSAY | |
|-------|-------|--|--------|-------|-------|--------|-------|---|-------|--|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/to | n | | |
| | | C.A. Nil to trace pyrite, chloritic and in sections | | | | | | | | |
| | | sericitic. | | | | | | | | |
| | | At 391.' - 6" quartz vein with pyrite | 9172 | 391.0 | 391. | 0.5 | 0.012 | | | |
| | | At 458.' - 8" white quartz vein | 9159 | 447.6 | 450. | 3.0 | 0.008 | | | |
| | | At 459.' - 4" quartz vein | 9160 | 457.6 | 459. | 1.6 | 0.010 | | | |
| | | Gradational conformable out contact | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 468.0 | 582.3 | Mafic Tuff | | | | - | | | | |
| | | | | | | | | | | |
| | | Dark green, medium-grained, unbedded to poorly-bedded, | | | | | | | | |
| | | chloritic, trace pyrite. The unit contains minor sub- | 9156 | 485.4 | 486.4 | 1.0 | 0.010 | | | |
| | | rounded, white feldspar porphroblasts from 10 mm. to 2 cm. | | | | | | | | |
| | | in diameter. | 9155 | 493.0 | 494.0 | 1.0 | 0.010 | | | |
| | | Conformable Gradational out contact. | | | | | | | | |
| į. | | | 9179 | 503.4 | 504.4 | 1.0 | 0.005 | | | |
| | | | | | | | | | | |

| DIA | MOND DRI | LL RECORD | LOGGED BY D. | Constable | | С | CONSTABLE CONSULTING INC. |
|-------------|------------------|------------------|------------------|--------------|----------|------|-------------------------------|
| | KAPLAN - MALLARD | | | | | | D.D.H. No. AIM -83-8 PAGE 6/6 |
| L'ATITUDE | LINE 8 + 00 W | BEARING OF HOLE_ | Grid North (036 | STARTED | Dec. 7, | 1983 | CLAIM No. P-548439 |
| DEPARTURE_ | 4 + 00 S | DIP OF HOLE | -45 ⁰ | _ COMPLETED_ | Dec. 10, | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION _ | | DIP TESTS | | DEPTH | 650.0' | | NE. CLAIM POST |

| FOO | TAGE | 0.5500.0.7.0.11 | SAMPLE | | TAGE | SAMPLE | Au | ASSAY | |
|-------|-------|---|----------|----------|----------|--------|--------|-------|---------------------------------------|
| FROM | то | DESCRIPTION | No. | FROM | то | LENGTH | oz/ton | | |
| 582.3 | 650.0 | Felsic Tuff | | - | | | | | |
| | | Green to grey-green, fine-grained, finely-bedded at 75° | | | | | | | |
| | | to C.A. Trace to nil pyrite, sericitic with minor chlorite. | <u> </u> | ļ | | | | | |
| | | At 593.7' - 2" zone of narrow sulfide (po-py) beds with | <u> </u> | | | ļ | | | |
| | | very minor fuchsite development. | | | - | | | | |
| | | From 630.3' - 633.9' zone of breccia filled with white | 9150 | 630.3 | 633.3 | 3.0 | 0.012 | | |
| | | quartz-carbonate and 1-2% pyrite | 9151 | 633.3 | 634.0 | 0.7 | 0.007 | | |
| | | and chalcopyrite. | | | | | | | |
| | | 643.7'- 644.5' development of quartz eyes. | | | | | | | |
| | | SSOCIATION | | | | | | | - |
| | | 650.0' END OF HOLE AIM-83-8 BOWN WICONSTABLE | | | | | | | |
| - | | 1 1 1 2 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | | | - | | | | |
| | | FELLÓW | 1 | <u> </u> | <u> </u> | | | | · · · · · · · · · · · · · · · · · · · |

| DIA | MOND DRI | LL RECORD | LOGGED BY D. Const | able | CONS | TABLE CONSULTING INC. | • |
|------------|---------------|----------------------|--------------------|---------------|------|-----------------------|------------------|
| i | | TOWNSHIP PROPERTY | BQ CORE | | | D.D.H. No. AIM-83 | -9 PAGE 1/5 |
| LATITUDE | LINE 0 + 20 E | BEARING OF HOLE Grid | North (036°) STAR | EDDec. 14. | 1983 | CLAIM No. P- | 548438 |
| DEPARTURE_ | 14 + 00 S | DIP OF HOLE -45° | COMP | ETED Dec. 15, | 1983 | DIRECTION A | ND DISTANCE FROM |
| ELEVATION | | DIP TESTS | DEPT | 400.0' | | NE. CLAIM P | OST |

| FOO | TAGE | DESCRIPTION | SAMPLE | F001 | TAGE | SAMPLE | Au | | ASSAY | | , |
|------|------|---|--------------|--------------|---------------------------------------|--------|----------------|---|-------|---|---|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/to | n | | | |
| 0 | 14.0 | CASING | | | | | | | | | |
| 14.0 | 45.9 | Diorite | | | | | | | | | |
| | | Salt and pepper color, medium-grained rock with 60% | | | · · · · · · · · · · · · · · · · · · · | | | | | | |
| | | feldspar, 40% ferro-magnesian. Out contact is chilled, | | | | | | | | | |
| | | black, fine-grained and intrusive. No sulfides present | | | | | | | | | |
| | | in the diorite. | | | | | | | | | |
| | | | | | | | | | | | |
| | | • | 9174 | 46.0 | 49.0 | 3.0 | 0.010 | | | | |
| 45.9 | 68.5 | Chert | 9175 | 49.0 | 52.0 | 1 | 0.008 | | | | |
| | | | 9176 9161 | 52.0 53.0 | | | 0.009 0.014 | | | | |
| | | Grey-green, hard, fine-grained, nearly conchoidal fracture, | 9162 | 56.0 | 59.0 | 3.0 | 0.010 | | | | |
| | | finely bedded at 25° to C.A. Disseminated and beds of | 9163 | 59.0 | 62.0 | 3.0 | 0.011 | | | | |
| | | pyrite, pyrrhotite and very minor chalcopyrite present | 9164 | 62.0 | 65.0 | 3.0 | 0.007 | - | | - | |
| | | up to 2% of the unit. For the last 9-10 ft. the chert | 9165 | 65.0 | 68.0 | 3.0 | 0.011 | | | | |
| | | unit shows signs of 1-2"-wide intermediate tuff units. | 9166 | 68.0 | 71.0 | 3.0 | 0.007 | | | | |

| DIA | DIAMOND DRILL RECORD LOGGED BY D. Constable CONSTABLE CONSULTING INC. | | | | | | | ONSTABLE CONSULTING INC. |
|-------------|---|--------------------|-----------------|---------------------|-----------|----------|------|------------------------------|
| PROPERTY _ | | TOWNSHIP PROPERTY | Y | | | | | D.D.H. No. AIM-83-9 PAGE 2/5 |
| LATITUDE | LINE 0 + 20 E | BEARING OF HOLE Gr | rid North | (036 ^O) | STARTED | Dec. 14, | 1983 | CLAIM No. P-548438 |
| DEPARTURE_ | 14 + 00 S | DIP OF HOLE | 45 ⁰ | | COMPLETED | Dec. 15, | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION _ | yang ming ming ming ming ming | DIP TESTS | | | _DEPTH | 400.0' | | NE. CLAIM POST |

| FOO | TAGE | DESCRIPTION | | | TAGE | SAMPLE | Au | | ASSAY | | |
|-------|-------|--|------|------|------|--------|--------|--|-------|--|----|
| FROM | то | DESCRIPTION | No. | FROM | ТО | LENGTH | oz/ton | | | | |
| 68.5 | 113.0 | Intermediate Tuff with Cherty Interbeds | 9167 | 71.0 | 72.0 | 1.0 | 0.007 | | | | |
| | | | 9170 | 72.4 | 75.4 | 3.0 | 0.008 | | | | |
| | | Dark to medium-green, medium to fine-grained well to poorly | 9171 | 75.4 | 76.1 | 0.7 | 0.012 | | | | 12 |
| | | bedded at 46° to C.A., trace to 1% sulfides as disseminates, | | | | | | | | | |
| | | euhedral crystals along beds and semi-massive beds. | | | | | | | | | |
| | | Chloritic, average hardness, | | | | | | | | | |
| | | 1/4 inch - augens of grey quartz start to form in this unit | | | | | | | | | |
| | | but they are irregularly distributed. Augens are | | | | | | | | | |
| | | elongated sub-parallel to the bedding. | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| 113.0 | 140.4 | Polymictic Conglomerate | | | | | | | | | |
| | | | | | | | | | | | |
| | | Medium green, contains 40% stretched fragments of pink | | | | | | | | | |
| | | porphyry and green tuffs. The fragments range from 2"- | | | | | | | | | |
| | | long down to microscopic. Rock matrix is chloritic. | | | · | · | · | | · | | |
| | | Sulfides are trace to nil. | | | | | | | | | |

-

| DIAMOND | DRILL | RECORD |
|-------------|--------------|----------------|
| KADLAN - MZ | T.T.ARD TOW | NSHIP PROPERTY |

LOGGED By D. Constable

CONSTABLE CONSULTING INC.

| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. No. AIM-83-9 PAGE 3/5 |
|--|------------------------------|
| LATITUDE LINE 0 + 20 E BEARING OF HOLE Grid North (036°) STARTED Dec. 14, 1983 | CLAIM No. P-548438 |
| DEPARTURE 14 + 00 S DIP OF HOLE -45° COMPLETED Dec. 15, 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH400.0' | NE. CLAIM POST |

| FOOTAGE | 0.500.01.01 | SAMPLE | F00 | TAGE | SAMPLE | Au | ASSAY | |
|-----------|---|------------|-------|-------|--------|--------|-------|------|
| FROM T | DESCRIPTION | No. | FROM | TO | LENGTH | oz/toh | | |
| | The last 6 feet of the conglomerate gradually becomes a | n | | | | | | |
| | argillite that has been hematized to a brick-red colour | 9152 | 136.3 | 139.3 | 3.0 | 0.011 | | |
| | with 1-2% disseminated pyrite. | 9153 | 139.3 | 142.1 | 2.8 | 0.005 | | |
| | | | | | | | | |
| 140.4 400 | O Intermediate Tuff | | | | | | | |
| | Medium to dark green, fine to medium_grained, well- | 9154 | 146.6 | 147.7 | 1.1 | 0.007 | | |
| | bedded with trace pyrite present. Chloritic, soft to | | | | | | | |
| | average hardness. | | | | | | | |
| | 158.0' - 160.9' pink hematized section with 1-2% | 9157 | 158.0 | 161.0 | 3.0 | 0.010 | | |
| | pyrite along fractures. | 9158 | 161.0 | 162.3 | 1.3 | 0.010 | | |
| | Quartz augens are infrequently present | | | | | | | |
| | throughout as well as beds of pink porphyry (?) but in | stead 9306 | 174.8 | 177.8 | 3.0 | 0.002 | | |
| | of fragments only as beds. Some sections have more that | n 9146 | 177.8 | 180.8 | 3.0 | 0.112 | | |
| | the normal traces of sulfide. | 9147 | 180.8 | 183.8 | 3.0 | 0.019 | | |
| | | 9148 | 183.8 | 184.5 | 0.7 | 0.010 | | |

| DIA | MOND DRI | II PECOPD | LOGGED BY D. C | Constable | CONSTABLE CONS | SULTING INC. |
|------------|---------------|----------------------|----------------|-------------------------|----------------|------------------------------|
| 1 | | TOWNSHIP PROPERTY | | · | | D.D.H. No. AIM-83-9 PAGE 4/5 |
| LATITUDE | LINE 0 + 20 E | BEARING OF HOLE Grid | North (036°) | STARTEDDec. 14, 1983 | 1 1 | CLAIM No. P-548438 |
| DEPARTURE | 14 + 00 9 | _DIP OF HOLE | • | COMPLETED Dec. 15, 1983 | 1 1 | DIRECTION AND DISTANCE FROM |
| ELEVATION_ | | DIP TESTS | | DEPTH 400.0' | | NE. CLAIM POST |

| F00 | TAGE | DECABLITION | SAMPLE | F00 | TAGE | SAMPLE | E Auton | | ASSAY | | |
|------|------|--|--------|-------|-------|--------|---------|--|-------|--|--|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | | | |
| | | 175.8' - 181.6' 1-2% pyrite and quartz veins. | | | | | | | | | |
| | | This intermediate tuff shows definitely | | | | | | | | | |
| | | more sedimentary affinity than normal. Some sections | | | | | | | | | |
| | | contain sericite in significant (10%) quantities. | | | | | | | | | |
| | | An S ₁ has been developed parallel to S ₀ with flat (20°)- | | | | | | | | | |
| | | lying (?), east-west (?), lineations across the S ₁ /S _o | | | | | | | | | |
| | | plane. | | | | | | | | | |
| | | | | | | | | | | | |
| | | 229.8' - 234.7' - rusty_pink.hematized section with 1-2% | 9139 | 229.5 | 232.5 | 3.0 | 0.010 | | | | |
| | | disseminated pyrite and kink banding | 9140 | 232.5 | 234.7 | 2.2 | 0.015 | | | | |
| | | at 70-90° to the C.A. | 9141 | 238.0 | 240.5 | 2.5 | 0.011 | | | | |
| | | • | | ٠. | - | | | | | | |
| | | At 265.0' bedding is at 66° to C.A. | | | | | | | | | |
| | | | | | | | | | | | |
| | | 339.0' - 361.9' white to yellow rust color due to addition | | | | | | | | | |
| | | of quartz beds and sericite and 1-2% | 9134 | 352.4 | 355.4 | 3.0 | 0.013 | | | | |
| | | • | 9135 | 355.4 | 356.2 | 0.8 | 0.005 | | | | |

| DIAM | OND DRILL RECORD | LOGGED BY D. Constabl | .e | | CONSTABLE | CONSULTING | INC. | |
|--------------------|----------------------------------|--------------------------|------------|---------------|-------------------|------------|----------------|----------|
| ROPERTY Ka | plan - MALLARD TOWNSHIP PROPERTY | | | | | D.D.H. No | AIM-83-9 | PAGE 5/5 |
| ATITUDELIN | ME 0 + 20 E BEARING OF HOLE Gr | id North (036°) STARTED | Dec. 14, 1 | 983 | | A CLA | IM NoP-5484 | 438 |
| | 14 + 00 S DIP OF HOLE -4 | | | | | l Ni | ECTION AND DIS | |
| | DIP TESTS | | | | | NF | CLAIM POST | |
| LEVATION | J. 12313 | | | | <u> </u> | | CEAIM FOST | |
| FOOTAGE FROM TO | DESCI | RIPTION | | SAMPLE No. | FOOTAGE FROM T | | AS | SSAY |
| 1 10 | | | | | | | | |
| | pyrite - (hematized ?) | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| | At 361.9' - 362.4' definit | e green argillite (sedin | mentary) | | | | | |
| | bed, | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

| | At 361.9' - 362.4' definite green argillite (sedimentary) | | | | |
|---|---|--|---|---|--|
| | bed, | | | | |
| | | | | | |
| | | | | | |
| | From 370' onward to the end the rock becomes intermediate | | | | |
| | tuff with interbedded argillite beds. | | | | |
| · | | | | | |
| | ASSOCIATION | | | | |
| | 400.0' END OF HOLE AIM-83-9 | | | | |
| | 8 DAYO W CONSTABLE P | | | | |
| _ | \$ 50-9/8/8 | | - | | |
| | FELLOW | | | · | |
| | · | | | | |

| DIA | MOND DRILL RECORD | LOGGED BY D. Constable | CONSTABLE CONSULTING INC. |
|-----------|------------------------------------|---|-------------------------------|
| 1 | KAPLAN - MALLARD TOWNSHIP PROPERTY | BQ CORE | D.D.H. No. AIM-83-10 PAGE 1/4 |
| LATITUDE | LINE 8 + 00 W BEARING OF HOLE Grid | North (036 ⁰) STARTED Dec. 11, 1983 | CLAIM No. P-548439 |
| DEPARTURE | 10 + 00 S DIP OF HOLE | | 3 DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | DEPTH 592.0' | NE. CLAIM POST |

| F00 | TAGE | 250000 | SAMPLE | FOOT | TAGE | SAMPLE | | ASSAY | | |
|--|-------|--|--------|------|------|--------|------|-------|---|----------|
| FROM | ТО | DESCRIPTION | No. | FROM | то | LENGTH | | | | |
| 0 | 24.0 | CASTNG | | | | | | | | |
| • | | | | | | | | | | |
| | | | | | | | | | | |
| 24.0 | 48.0 | Intermediate Tuff | | | | | | | | |
| _ | | | | | | | | | | |
| | | Green to grey-green, fine to medium-grained, finely to | | | | | | | | |
| | | poorly-bedded, chloritic with minor sericitic sections. | | | | | | | | |
| | | Bedding is at 45° to C.A. Trace to nil sulfides. | | | | | | | | |
| | | Sharp conformable out contact. | | | | | | | | <u> </u> |
| | | • | | | | | | | | |
| | | | | | | | | | ļ | |
| 48.0 | 169.0 | Felsic Tuff | | | | ļ | | | | |
| NAME OF TAXABLE PARTY O | | | | | | | | | | |
| | | Grey to grey-green, as above but with 5% secondary quartz | | | | | | | | |
| | | in veins and along beds plus more sericitic. Some sections | | | | | | | | |
| • | | have quartz eyes developing slightly stretched parallel | | | - | | | | | |
| | | to the bedding. | | | | | | | | |

| DIAMOND DRILL RECORD LOGGED BY D. Constable | CONSTABLE CONSULTING INC. |
|--|---------------------------------|
| PROPERTY KAPLAN - MALLARD TOWNSHIP PROPERTY | D.D.H. No. AIM-83-10 PAGE 2/4 |
| LATITUDE LINE 8 + 00 W BEARING OF HOLE Grid North (036°) STARTED Dec. 11, 1983 | |
| DEPARTURE 10 + 00 S DIP OF HOLE -45° COMPLETED Dec. 13, 19 | 983 DIRECTION AND DISTANCE FROM |
| ELEVATION DIP TESTS DEPTH 592.0' | NE. CLAIM POST |

| FOOTAGE | | | SAMPLE | FOOTAGE | | SAMPLE | Au | ASSAY | ASSAY | |
|---------|--------|---|--------|---------|------|--------|--------|-------|-------|---------------------------------------|
| FROM | ТО | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | | |
| | | 63.7' - 76.0' felsic tuff is hematized and garnets are | | | | | | | | |
| | | developed along certain beds. | | | | | | | | |
| | | | 9125 | 78.0 | 80.5 | 2.5 | 0.008 | | | |
| | | From 77.9' - 80.0' rock becomes a sericitic schist. | 7223 | | 00.5 | | | | | |
| | | Unit has extensive evidence of carbonatization. | | | | | | | | · · · · · · · · · · · · · · · · · · · |
| | | 152.0' - 169.0' some beds of argillite. | | | | | | | | |
| | | The rocks in this hole show more sedimentary characteristics. | | | | | | | | ļ |
| | | | | | | | | | | <u> </u> |
| 169.0 | 197.5 | İntermediate Tuff | | | | | | | | |
| | 237.03 | | | | | | | | | |
| | | Green, fine to medium-grained, poorly-bedded at 50° to C.A. | | | | | | | | |
| | | chloritic, nil to trace sulfides. In the area of | | | | | | | | |
| | | 191.5' rock has argillitic interbeds. | | | | | | | | : [|
| | | Sharp conformable out contact. | | | | | | | | |
| | | | | | | | · | | | I |
| | | • | | | | | | | | 1 |

| DIAMOND DRIL | L RECORD | LOGGED BYD | . Constable | e | co | NSTABLE CONSULTING INC. |
|----------------------------------|----------------------|--------------|-------------|----------|------|-----------------------------|
| PROPERTY <u>KAPLAN - MALLARD</u> | | | | | | D.D.H. No PAGE |
| LATITUDE LINE 8 + 00 W | BEARING OF HOLE Grid | North (036°) | STARTED | Dec. 11, | 1983 | 1 . |
| | DIP OF HOLE | | _ COMPLETED | Dec. 13, | 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION | DIP TESTS | | _DEPTH | 592.' | | NE. CLAIM POST |

| FOO | TAGE | DESCRIPTION | SAMPLE | F00 | | SAMPLE | Au | ASSAY | |
|-----------|-------|---|--------|-------|-------|--------|--------|-----------|----------|
| FROM | то | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | |
| 197.5 | 279.5 | Argillite | | | | | | | <u> </u> |
| | | | | | | | | | |
| | | Medium green, very fine-grained, finely-bedded. | | | | | | | |
| - <u></u> | | competent and massive, nil to trace sulfides, | | | | | | | |
| | | contains some minor intermediate tuff sections. | | | | | | | |
| | | Conformable out contact, | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| 279.5 | 592.0 | Interbedded Intermediate Tuff and Argillitic | 9183 | 335.7 | 337.5 | 1.8 | 0.010 | | |
| | | • | | | | | | | |
| | | Medium green, chloritic, finely-bedded and containing | | | | | | | |
| | | nil to trace pyrite. | | | | | | | |
| | | From 373.1' - 376.8' dark green, medium-grained mafic | | | | | | | |
| | | tuff sections. | | | | | | | |
| | | From 378.2' - 382.1' dark green, medium-grained.mafic | | | | | | | |
| | | tuff section. | | | | | | | |
| | | | | | | | | | |

| DIA | MOND DRI | LL RECORD | LOGGED BY | D. Constable | CONSTABLE CONS | SULTING INC. |
|-------------|------------------|-----------------|------------------|-----------------------|----------------|-------------------------------|
| PROPERTY | KAPLAN - MALLARI | TOWNSHIP PROPE | RTY | | | D.D.H. No. AIM-83-10 PAGE 4/4 |
| LATITUDE | LINE 8 + 00 W | BEARING OF HOLE | Grid North (0 | 36°) STARTED Dec. 11, | 1983 | CLAIM No. P-548439 |
| DEPARTURE _ | 10 + 00 S | DIP OF HOLE | -45 ⁰ | COMPLETED Dec. 13 | , 1983 | DIRECTION AND DISTANCE FROM |
| ELEVATION _ | | DIP TESTS | | DEPTH592.0' | | NE. CLAIM POST |
| | | | | | | |

| AGE | | SAMPLE | F00 | TAGE | SAMPLE | AU | ASSAY | | |
|-----|---|--|---|---|---|---|---|---|---|
| то | DESCRIPTION | No. | FROM | TO | LENGTH | oz/ton | | | |
| | From 437.7' - 442.5' Dark green, medium-grained, | | | | | | | | |
| | mafic tuff section. | | | | | | | | |
| | | 9180 | 503.4 | 504.4 | 1.0 | 0.007 | | | |
| | 506.3'- 511.0' Dark green, medium-grained spotted | | | | | | | | |
| | mafic tuff. | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | \$\$0014760 | | | | | | | | |
| | 592.0' END OF HOLE AIM -83-10 | | | | | | | | |
| | S PHID CONSTANTE | | | | | | | | |
| | La | | | | | | | | |
| | F5110\1 | | | | | | | | |
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| | | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. 592.0' END OF HOLE AIM -83-10 | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 503.4 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 503.4 504.4 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 503.4 504.4 1.0 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. | DESCRIPTION No. FROM TO LENGTH OZ/ton | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 503.4 504.4 1.0 0.007 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. | From 437.7' - 442.5' Dark green, medium-grained, mafic tuff section. 9180 503.4 504.4 1.0 0.007 506.3'- 511.0' Dark green, medium-grained spotted mafic tuff. |

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Ministryof Resources W84 00021 Report of Work

(Geophysical, Geological, Geochemical and Expenditures)



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| * | | | Th 410 | 09NW0017 2.6395 M | ALLARD | | 900 | hns. |
|--|---------------------------|-------------------|---|---|---------------------|---|---|---------------------|
| Type of Survey(s) | .86 Sab. 18 | Asson | | An.o. | Township o | | 700006 | : 5 |
| Claim Holder(s) | E 16 | 10) 0.1 | pana | Maryaesa | | Prospecto | 43793 | 7 |
| Address | \mathcal{L} | 10 5/410 | | nk: | | 2 | 0, | A |
| Survey Company | LONSULT | ING | ∠Nc. | Date of Survey | (from & to) | ال الم | Total Miles of line (| AICA |
| | USULTING | INC | | 15 11 Q | 33105 6 | 2 8 4 Mo. Yr. | NIA | |
| Name and Address of Author (of | , , , | | ron C. | 0- 5 | | Λ | _ | |
| Credits Requested per Each C | | | | laims Traversed (L | ist in nume | rical sequi | | |
| Special Provisions | Geophysical | Days per Claim | Prefix | lining Claim Number | Expend. Days Cr. | Prefix | lining Claim Number | Expend. Days Cr. |
| For first survey: | - Electromagnetic | | P. | 545432 | 60 | P | 548437 | 60 |
| Enter 40 days. (This includes line cutting) | - Magnetometer | | , | 545433 | 60 | | 548438 | , - |
| For each additional survey: | - Radiometric | | | 272422 | | er gerole (f. 1885) Law (f. 1885) St. (f. 1885) | | 60 |
| using the same grid: | - Other | | | | | a mila | 548 439 | 60 |
| Enter 20 days (for each) | | | | | | | | |
| | Geological | | 10 to | | <u> </u> | | | |
| Man Days | Geochemical | Days per | | | | 1445)** 1445)** | | |
| Complete reverse side | Geophysical | Claim | i verange generalet i en di veran de disvera | | | Then asses | | |
| and enter total(s) here | - Electromagnetic | | 24.0. | | | 114 | | |
| 上十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二 | Magnetometer | | e se proprie pre d | | | 1 | | |
| MINING LATER | - Radiometric | | Section . | | RE | CO | RDED | |
| MINING LANDS | Other , | | 1000 | | | | | |
| | Geological | | | | | FEB 1 | 1984 | |
| | Geochemical | | | | Receir | t No | 11 | |
| Airborne Credits | | Days per Claim | | | 1000 | | ~ / | |
| Note: Special provisions | Electromagnetic | | | | | | | |
| credits do not apply to Airborne Surveys. | Magnetometer | | | | | | | |
| · | Radiometric | | | | | | | |
| Expenditures (excludes powe | er stripping) | | 100 10 | CO PO PAR S | | | | |
| Type of Work Performed | | | | U | ; | | er en | |
| Performed on Claim(s) | n ampes | | | = 14 fe84 | | | | |
| 1.545432, 545 | 433, 548 43 | 7., | A.M. | | P.63. | | | <u> </u> |
| 548438,548 | 439 | | 718191 | 012121112181 | 1111 | | | |
| Calculation of Expenditure Days | Credits | Total | | | | | | |
| Total Expenditures | $\div 15 = 3$ | Credits | 1995 A. 1995 A. 1995 | | | 3.44300 | | |
| 3 4504 | 7 - [6] - [5 | | | | | | nber of mining vered by this work. | 5 |
| Instructions Total Days Credits may be ap choice. Enter number of days | | | | For Office Use O | nly | 1 | 7/ | |
| in columns at right. | Creates per ciaim selecte | | Recorded | Cr. Date Recorded | love | Mingray St | Con Von D | |
| | order Holder or Agent (S | Signature) | 300 | Date Appendix | 184. | 0 | ractor — | |
| Feb 10 84 / | W Censte | th | 30 | (4.4. | レ1 | (Q) | | |
| Certification Verifying Report I hereby certify that I have a | | nowledge of | the facts and | forth in the Penart | of Work sono | ed hores | having performed th | e work |
| or witnessed same during and | or after its completion | | | | J. TTOIR SIIIIGA | ou neuell, | manis benonieu fu | IC TOOLK |
| Name and Postal Address of Pers | on Certifying TABUR / 0 | 1 | 16500 | 1 (| 5. | (D) A II. | Ca e | |
| | | rvan | 003401 | Date Certified | , , | Carriera | w (Signature) | |
| ONTARIO P3 | <u>A</u> 1(5 | | | Feb 9 | 84 | 11 | Mundel | <u> </u> |



Geotechnical Report Approval

| File | | | | | |
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| Mining Lands Co | omments | | | | |
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| To: Geophysics | | | | | · · · · · · · · · · · · · · · · · · · |
| Comments | | | | | · · · · · · · · · · · · · · · · · · · |
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| Approved To: Geology - Ex | Wish to see again with correct penditures Mr. K | ustra. | Date | Signature | |
| To: Geology · Ex | _ | | Date | Signature | |
| To: Geology · Ex | _ | | | | |
| To: Geology · Ex | _ | nstra. | | Signature Signature Signature | ra |
| To: Geology · Ex | weenditures Mr. K | nstra. | | | ra |
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| To: Geology · Ex Comments Comments To: Geochemistr | weenditures Mr. K | ustra. | March / | 5/84 Signature | |

DK - 8/3/84.

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Assesses

Approved Reports of Work sent out

Notice of Intent filed

11.1

Approval after Notice of Intent sent out

Duplicate sent to Resident Geologist

Duplicate sent to A.F.R.O.

1984 03 05

Bruce W. Hanley Mining Recorder Ministry of Natural Resources 60 Wilson Avenue Timmins, Ontario P4N 2S7

Dear Sir:

We have received data for Assaying submitted under Section 77(19) of the Mining Act R.S.O. 1980 for Mining Claims P 545432 et al in the Township of Mallard.

This material will be examined and assessed and a statement of assessment work credits will be issued.

We do not have a copy of the report of work which is normally filed with you prior to the submission of this technical data.

Yours very truly,

J.R. Morton Acting Director Land Management Branch

Whitney Block Room 6643 Queen's Park Toronto, Ontario M7A 1W3 Phone: 416/965-1380

A. Barr:dg

cc: Arthur E. Kaplan c/o 10 Kingston Crt. Sudbury, Ontario. P3A 1C9

Ontario

OFFICE USE ONLY

837 (5/79)

Ministry of Natural Resources

GEOPHYSICAL – GEOLOGICAL – GEOCHEMICAL TECHNICAL DATA STATEMENT

TO BE ATTACHED AS AN APPENDIX TO TECHNICAL REPORT FACTS SHOWN HERE NEED NOT BE REPEATED IN REPORT TECHNICAL REPORT MUST CONTAIN INTERPRETATION, CONCLUSIONS ETC.

| Type of Survey(s) Min. Act | (86)-(18) Assays : An. | lysis |
|------------------------------------|--|--|
| Claim Holder(s) PRTHUR E | | MINING CLAIMS TRAVERSED List numerically |
| Survey Company Constage | E CONSULTING INC. | P. 545432 |
| Author of Report DAVID | | P (prefix) (number) 5 4 5 4 3 3 |
| Address of Author 10 11 10 0 | GOTON COURT SUBBURN | P. 548 437 |
| Covering Dates of Survey_ 7000 | (linecutting to office) | P. 548 438 |
| Total Miles of Line Cut | S/A | P. 548439 |
| SPECIAL PROVISIONS | DAYS | |
| CREDITS REQUESTED | Geophysical per claim | Baryling |
| ENTER 40 days (includes | Electromagnetic | |
| line cutting) for first | -Magnetometer | |
| survey. | -Radiometric | |
| ENTER 20 days for each | -Other | |
| additional survey using | Geological | |
| same grid. | Geochemical | |
| AIRBORNE CREDITS (Special provisi | on credits do not apply to airborne surveys) | |
| MagnetometerElectromagne (enter da | eticRadiometric sys per claim) | |
| DATE: Fil-9/84 SIGNA | TURE: Author of Report or Agent | |
| Res. Geol. Qualifi | cations | RECTIVED |
| Previous Surveys | | |
| File No. Type Date | Claim Holder | |
| | | MINING LANDS SECTION |
| | | |
| | | |
| | | |
| | | ļi |
| | | TOTAL CLAIMS |

GEOPHYSICAL TECHNICAL DATA

GROUND SURVEYS -- If more than one survey, specify data for each type of survey

| N | Number of Stations | | Numbe | er of Readings | |
|------------------|--|-------------|-----------------------|------------------|-----------------|
| S | tation interval | | Line s | pacing | |
| P | rofile scale | | | | |
| C | Contour interval | | | | |
| , al | Instrument | | | | |
| MAGNETIC | Accuracy – Scale constant | | | | |
| Ž | Diurnal correction method | | | Shoot back | |
| MA | Base Station check-in interval (hours) | | | | |
| • | Base Station location and value | | | | |
| 2 | Instrument | | | | |
| 77 | Coil configuration | | | | |
| ELECT KOMAGNETTO | Coil separation | *** | | | |
| Š | Accuracy | | | | |
| Y T | | | ☐ Shoot back | | ☐ Parallel line |
| 4 | Frequency | | (anacify VI E station | 1 | |
| 긔 | Parameters measured | | | | |
| | | | | | |
| | Instrument | | | | |
| | Scale constant | | | | |
| AVILY | Corrections made | | | | |
| | | | | | |
| 5 | Base station value and location | | | | |
| | Elevation accuracy | | | | |
| | Instrument | | | | |
| | Method | | | Frequency Domain | |
| | Parameters - On time | | | Frequency | |
| Z | — Off time | | | Range | |
| IVI | – Delay time | | | | |
| ISI | - Integration time | | | | |
| RESISTIVITY | Power | | | | |
| · | Electrode array | | | | |
| | Electrode spacing | | | | |
| | Type of electrode | _ | | | |

INDUCED POLARIZATION

| SELF POTENTIAL | |
|---|---------------------------------|
| Instrument | Range |
| Survey Method | |
| | |
| Corrections made | |
| was a second of the second of | |
| | |
| RADIOMETRIC | |
| Instrument | |
| Values measured | |
| Energy windows (levels) | |
| Height of instrument | Background Count |
| Size of detector | |
| Overburden | e, depth – include outcrop map) |
| (турс | ;, depth — include outcrop map) |
| OTHERS (SEISMIC, DRILL WELL LOGGING | EETC.) |
| Type of survey | |
| Instrument | |
| Accuracy | |
| Parameters measured | |
| | |
| Additional information (for understanding resu | lts) |
| | |
| | |
| | |
| AIRBORNE SURVEYS | |
| Type of survey(s) | |
| Instrument(s)(spec | cify for each type of survey) |
| Accuracy(spec | |
| Aircraft used | |
| Sensor altitude. | |
| | |
| | |
| Aircraft altitude | Line Spacing |
| | Over claims only |

GEOCHEMICAL SURVEY - PROCEDURE RECORD

| Numbers of claims from which samples taken Y | /R () |
|---|--|
| | |
| Total Number of Samples 189 | ANAL WEIGHT MEDITORS |
| Type of Sample (Nature of Material) | ANALYTICAL METHODS |
| (Nature of Material) | Values expressed in: per cent p. p. m. |
| Average Sample Weight 1-2 1 bs | p. p. b. 🔲 |
| Method of Collection Splitting often | Cu, Pb, Zn, Ni, Co, Ag, Mo, As,-(circle) |
| anting . | (A) m) C |
| Soil Horizon Sampled | |
| Horizon Development | Field Analysis (tests) |
| Terrain | Extraction Method |
| Terrain | |
| | Reagents Used |
| Drainage Development | |
| Estimated Range of Overburden Thickness | No. (tests Extraction Method Agua legia |
| | λ_1, λ_2 |
| | Analytical Method Atomic Absorption Reagents Used |
| | Reagents Used |
| SAMPLE PREPARATION | Commercial Laboratory (tests |
| (Includes drying, screening, crushing, ashing) Mesh size of fraction used for analysis | Name of Laboratory |
| Mesh size of fraction used for analysis | Extraction Method |
| | Analytical Method |
| | Reagents Used |
| | <u> </u> |
| | General |
| General | |
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Constable Consulting Inc.

TEL. (705) 566-5931

10 KINGSTON COURT

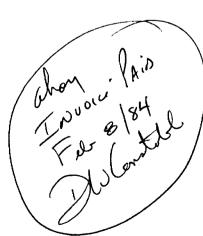
SUDBURY, ONTARIO

P3A 1C9

February 5, 1984

INVOICE

| 4 days drafting, copying and folding maps @ \$300. per day | \$1200. |
|---|---------|
| 4 days upgrading logs and writing report @ \$300. per day | 1200. |
| Typing Reports and copying costs | 310. |
| | \$2710. |



RECEWED

FEB 1 0 1984

MINING LANUS SECTION

Erana Mines Ltd. 106 Fielding Road Sudbury, Ontario

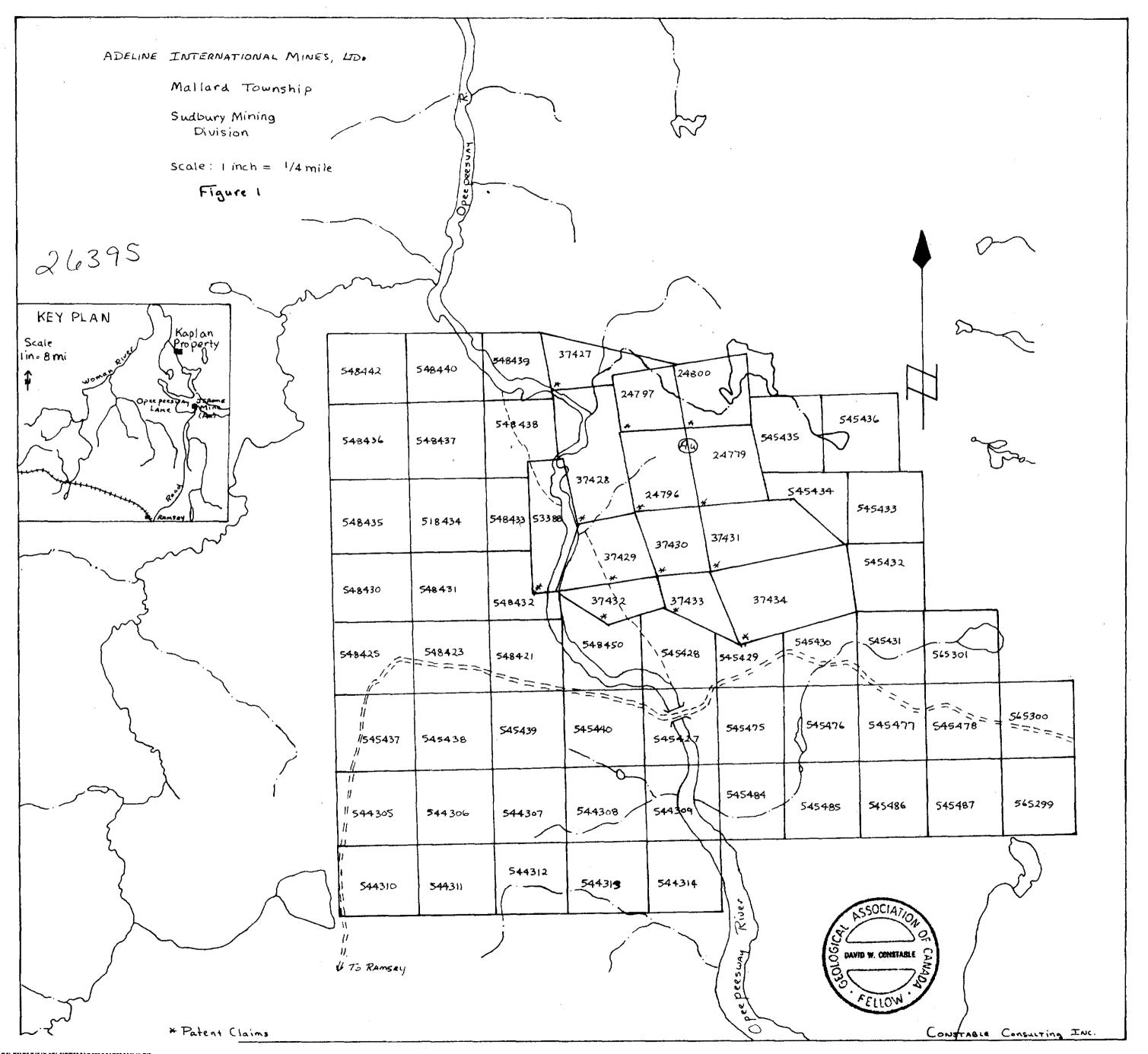
INVOICE NO. 438

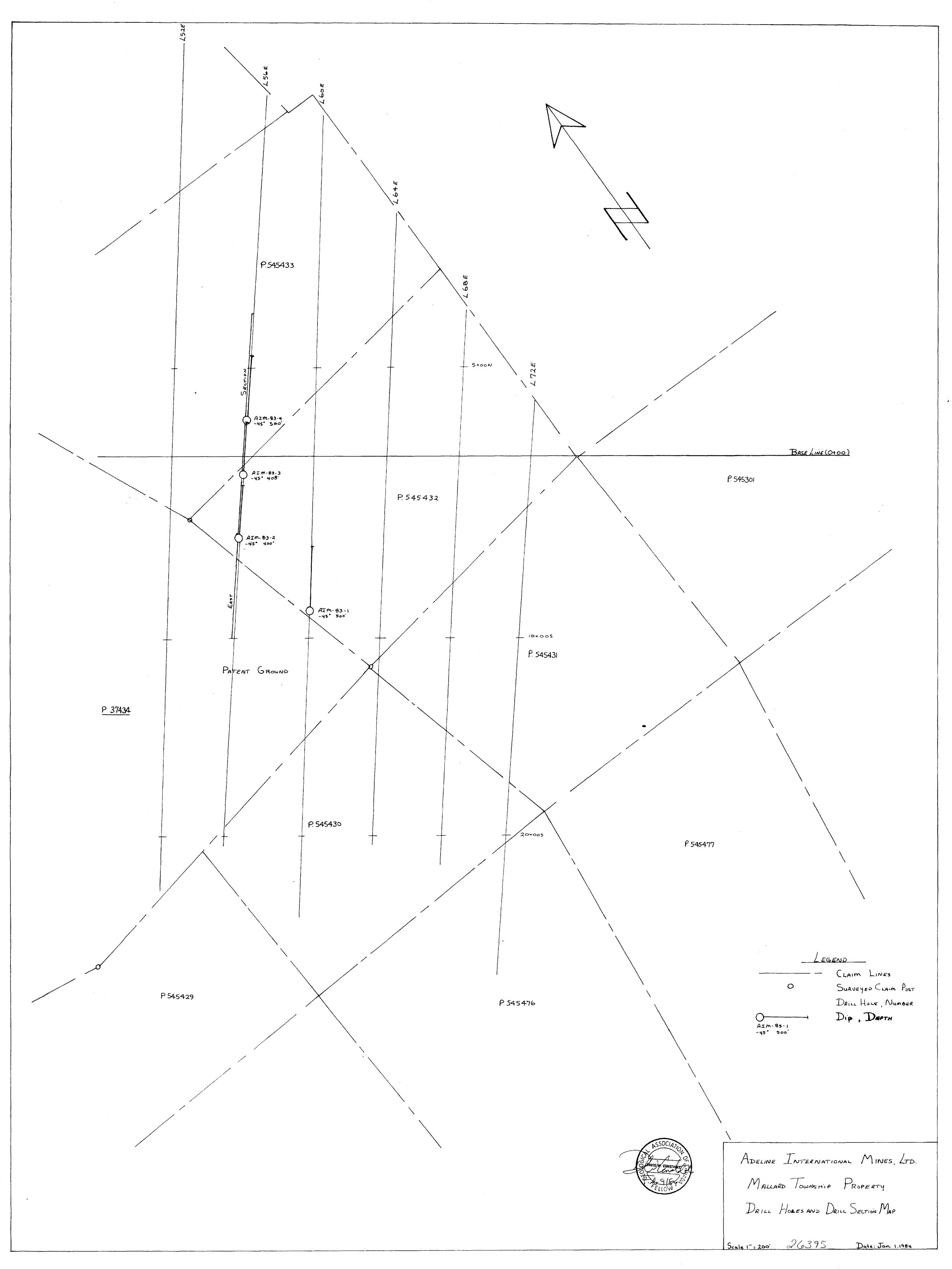
DATED: February 6, 1984

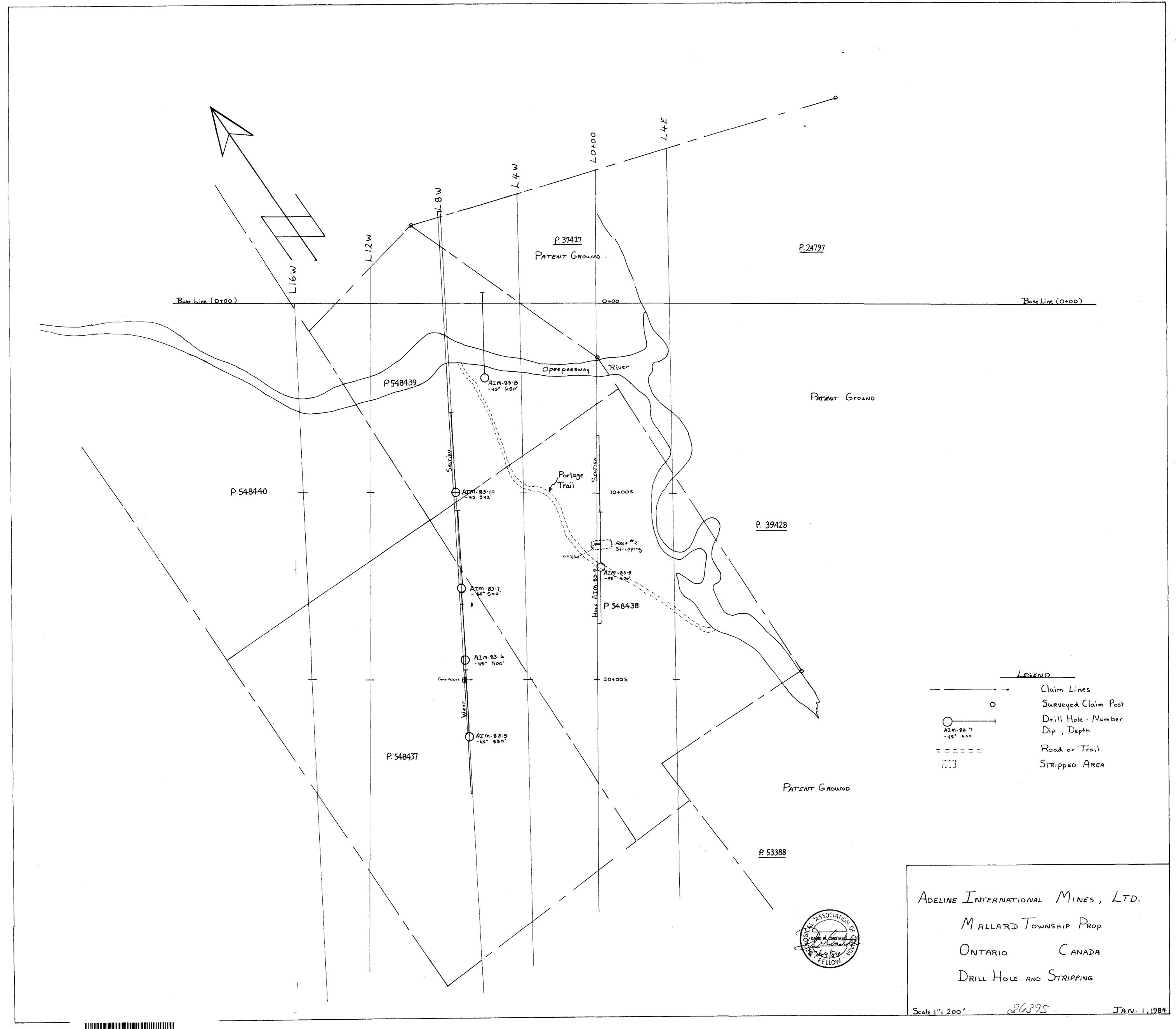
| 189 | assays | for | gold | 9 | \$10.00 | per | sample | ••••• | \$ | 1890. |
|-----|--------|-----|--------|----------|---------|-----|--------|-------|----|-------|
| 1 | assay | for | copper | @ | 4.00 | per | sample | ••••• | | 4. |
| | | | | | | | | | \$ | 1894. |
| | | | | | | | | | _ | |

Pard Asb. 9/84/eb.

RECEIVED
FEB 1 0 1984
MINING LANDS SLC..ON

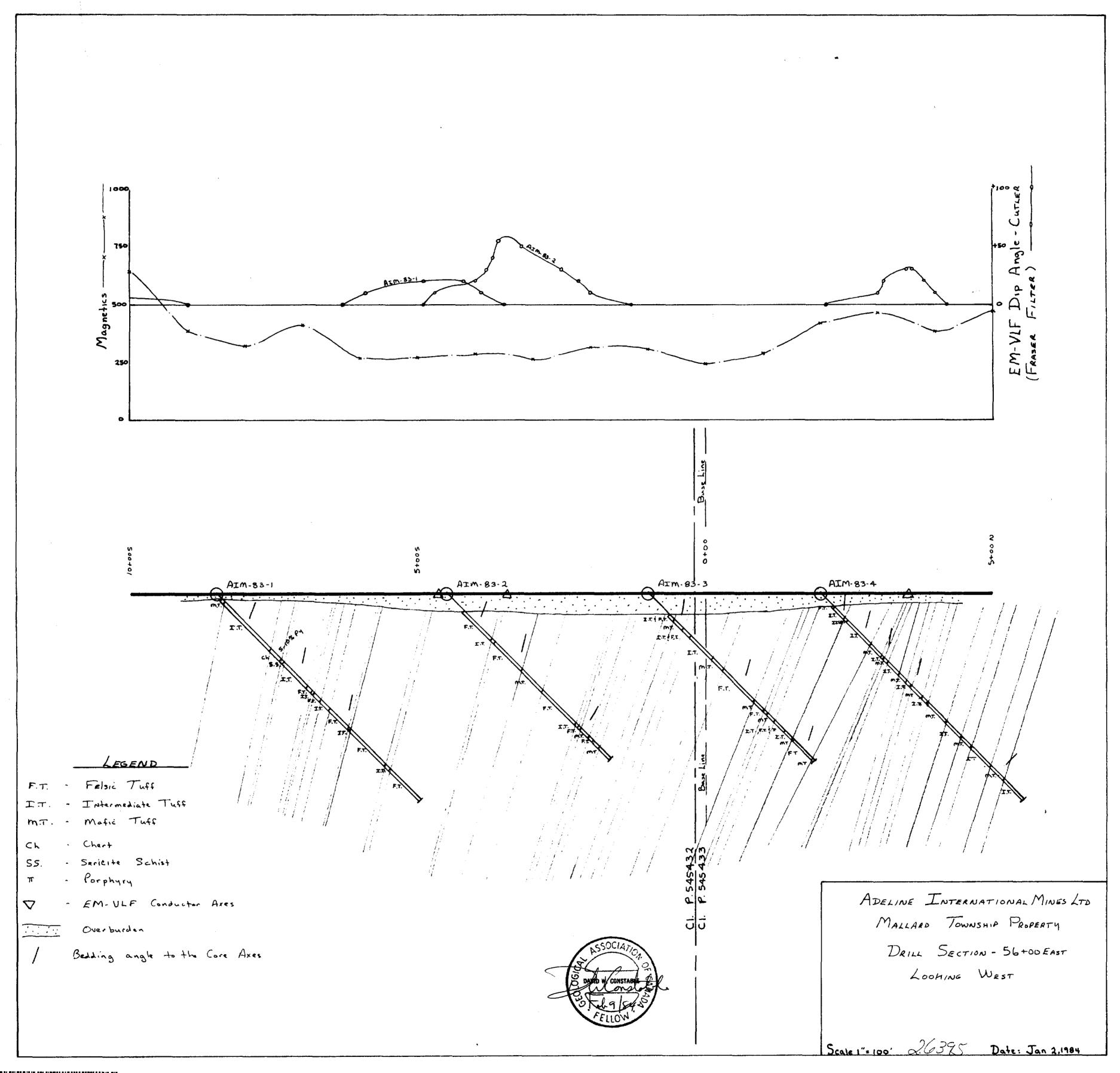


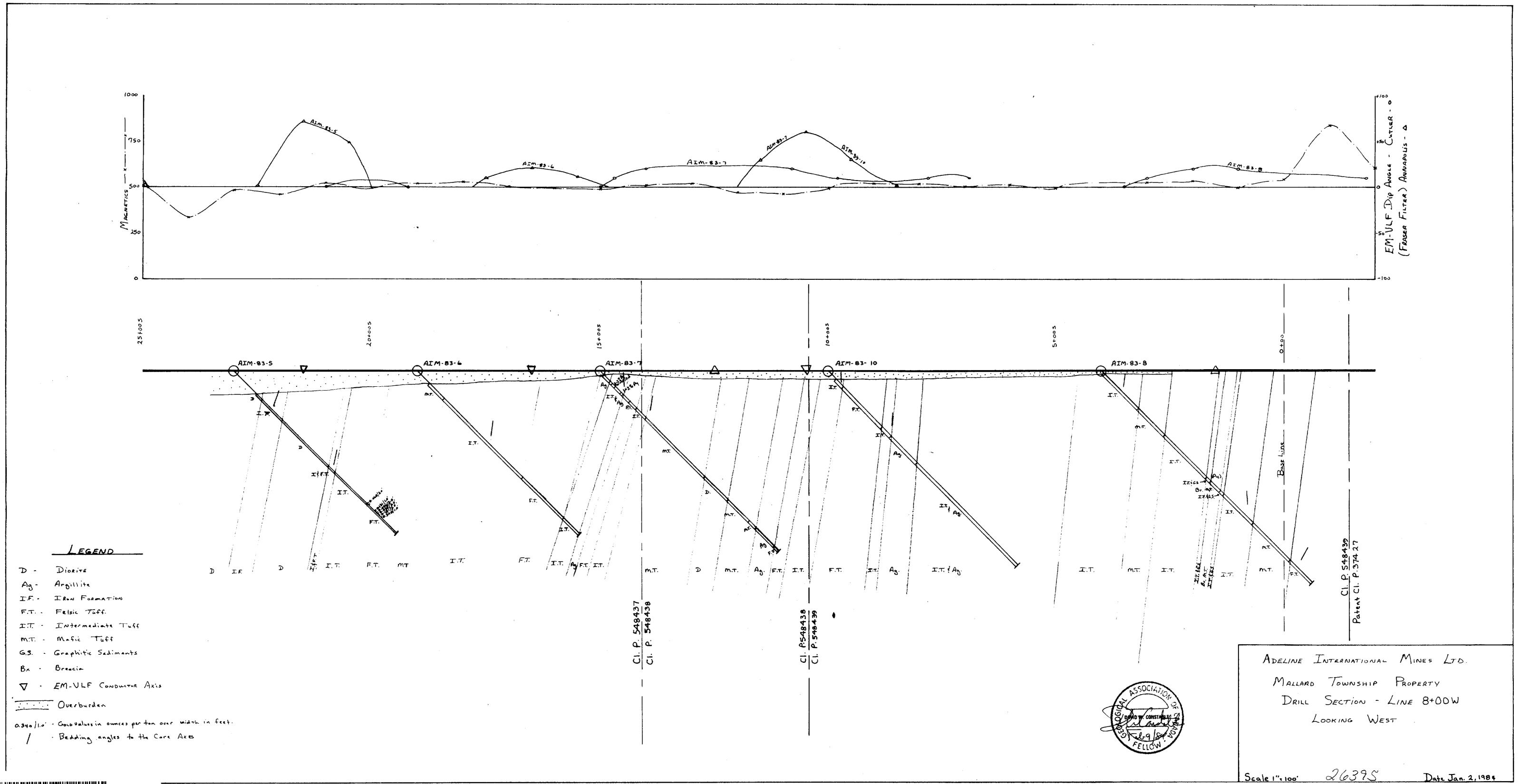


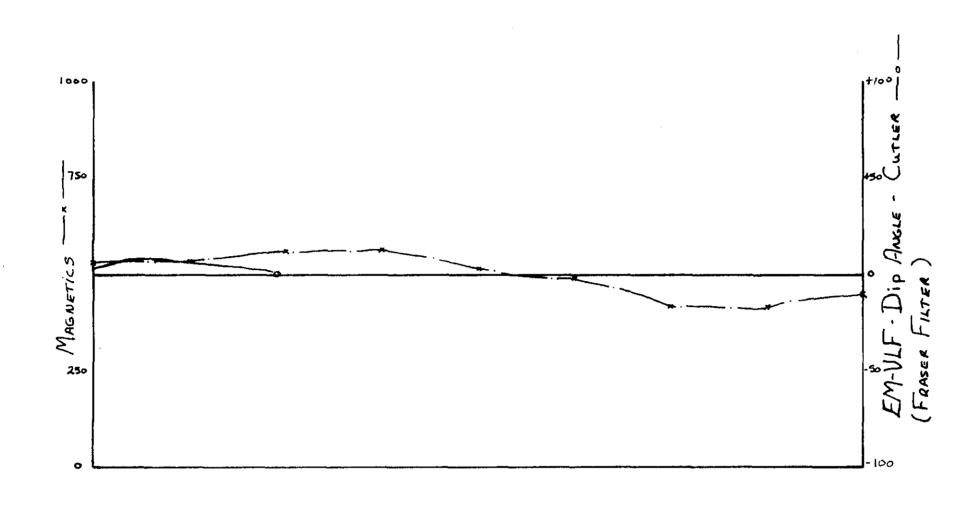


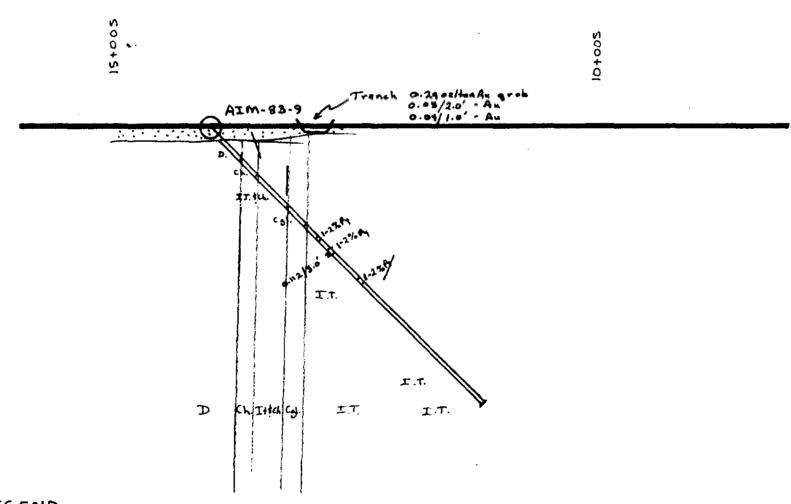
41009NW0017 2.6395 MALLARD

20









LEGEND

D - Diorite

Ch - Chert

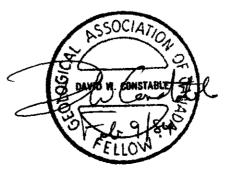
Cgl - Conglomerate

IT. Intermediate Tuff.

L. Trench

Overbuiden

Bedding angle to the core axes



ADELINE INTERNATIONAL MINES LTD

Mallard Township PROPERTY

DRILL SECTION - LINE 0+20 EAST

LOOKING WEST

Scale 1": 100' 26395 Date: Jan. 2, 1984

