

GM 45944

1987 SUMMER PROGRAMME, PROJECT 332, OTHER LANDS

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Énergie et Ressources
naturelles

Québec 

PLACER DOME INC.

PROJECT 332

OTHER LANDS

1987 SUMMER PROGRAMME

EASTMAIN, QUEBEC

NTS 33-A-8E

Ministère de l'Énergie et des Ressources

Service de la Géoinformation

Date: 23 MAR 1988

No G.M.: 45944

Toronto, Ontario
November 1987

C. Hilgendorf

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cont'd...

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|-----------------------|---|--------------|
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| 332-1 | DDH Section 2+50E, Grid 7 | 1:1 000 |
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| 116-309 | Geology and Location of Drill Holes, Grid 5 | 1:2500 |
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| 116-164 (rev.) | Reconnaissance Geology, Western Block | 1:15,000 |

PLACER DOME INC.
PROJECT 332
OTHER LANDS
1987 SUMMER PROGRAMME
EASTMAIN, QUEBEC

SUMMARY

The August - September drill programme tested four HLEM conductors defined by 1985 ground geophysical surveys, as follow-up to the 1983 airborne EM and mag survey. Geophysical grids 1, 3, 5 and 7 were tested by drilling a hole on each grid, for a total of 540.16m. The conductors were explained by the presence of pyrite and pyrrhotite stringers intersected by the drill holes. A total of 58 samples were taken for assay and no economic gold or silver assays were returned.

INTRODUCTION

Following the 1983 airborne EM and mag survey, seven anomalies were selected for ground follow-up. This consisted of mag, VLF and Max-Min surveys during the winter of 1985. The grid geology was mapped in the summer of 1985 and after a review of geology and geophysics, four conductors were selected for testing by diamond drill.

LOCATION AND ACCESS

The Other Lands claim group is located in townships 2434, 2534 and 2535 approximately 320 km north of Chibougamau, Quebec. Access is by float-plane from Propair bases located at Chibougamau and the Temiscamie River. The Temiscamie River base is 167 km north of Chibougamau and accessible via an all-weather gravel road. From the Temiscamie River base to the claim group is a distance of 160 km.

PREVIOUS WORK

Table I summarizes work carried out by Placer Dome Inc. since 1982:

T A B L E I

Previous Work Other Lands

| <u>YEAR</u> | <u>TYPE OF WORK</u> |
|------------------|---|
| 1982 | Geological reconnaissance, Eastmain greenstone belt Placer Development Limited by R. Pinsent and M. Gareau. |
| 1983 (winter) | Airborne magnetic and EM surveys by Aerodat for Placer Development and *Eldor Resources Limited. |
| 1983 (summer) | Reconnaissance mapping, western block, Other Lands, Placer Development by D. Davidson and A. Fleming. |

cont'd...

* The Other Lands claim group was under Joint Venture with Eldor Resources from December 1982 until December 1985.



FIGURE 1

**GENERAL LOCATION MAP
EASTMAIN AREA , QUEBEC**

Aug., 1982

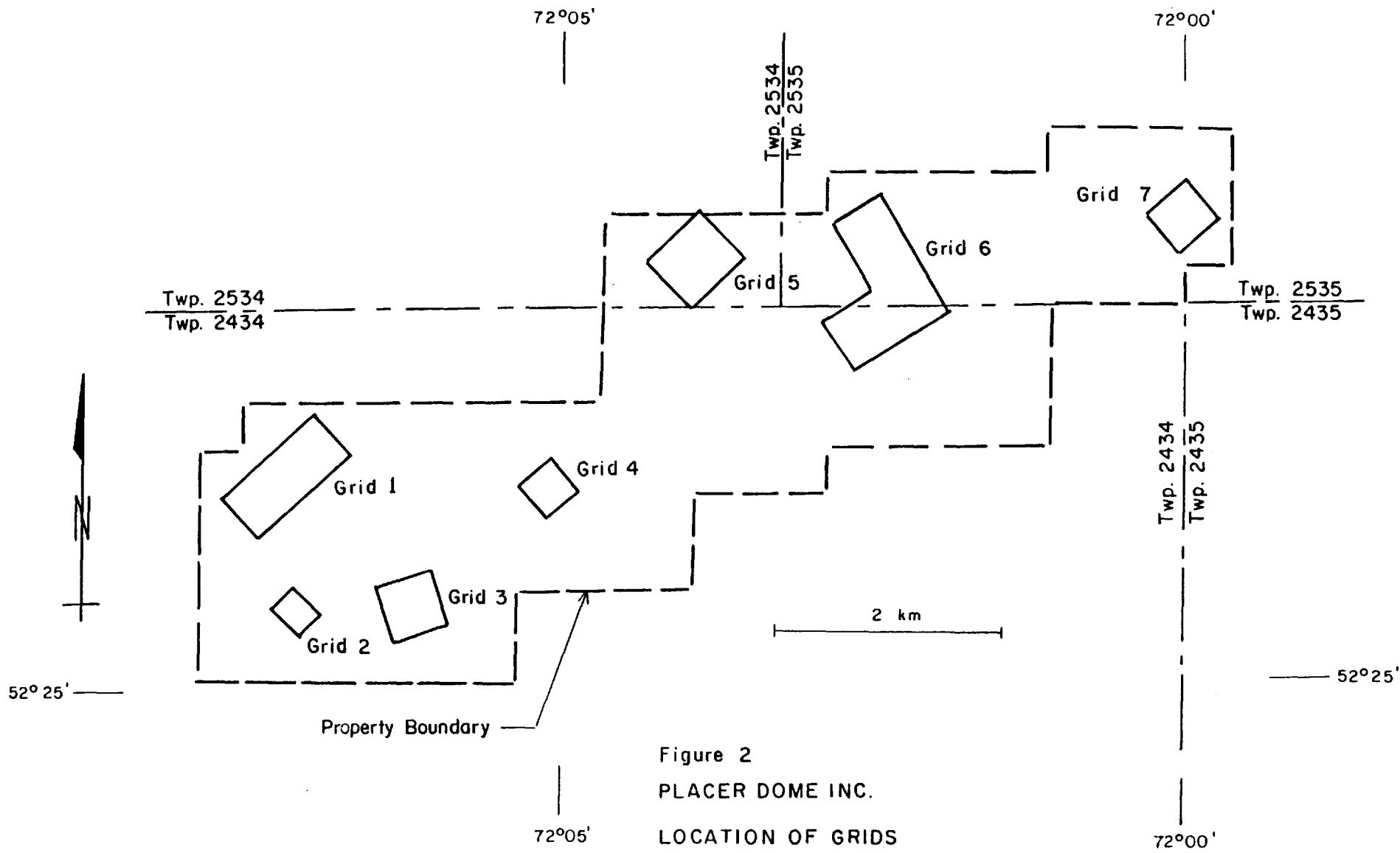


Figure 2
 PLACER DOME INC.
 LOCATION OF GRIDS
 OTHER LANDS, EASTMAIN, QUEBEC
 NTS 33-A-8E VII6 (Project 332)
 Nov. 1987

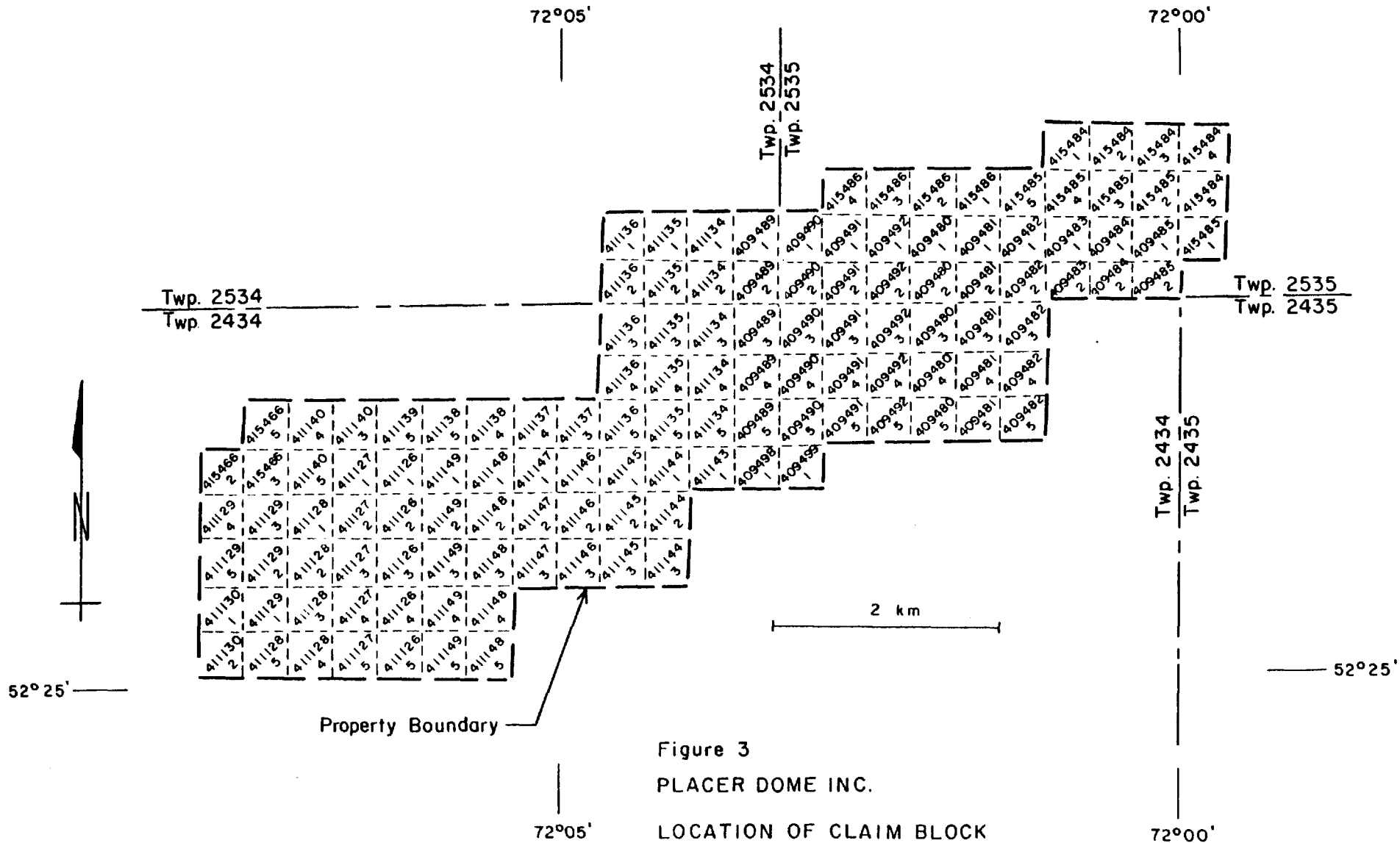


Figure 3
 PLACER DOME INC.
 LOCATION OF CLAIM BLOCK
 OTHER LANDS, EASTMAIN, QUEBEC
 NTS 33-A-8E VII6 (Project 332)
 Nov. 1987

T A B L E I
Previous Work Other Lands (cont'd...)

| <u>YEAR</u> | <u>TYPE OF WORK</u> |
|------------------|--|
| 1985 (winter) | Linecutting and ground geophysical surveys (Mag, VLF and Max-Min) by Service Exploration for Placer Development. |
| 1985 (spring) | Geophysical evaluation of Other Lands grids 1 - 7 by J. Boniwell for Placer Development. |
| 1985 (summer) | Geological mapping of grids 1 - 7 by H. Thiboutot and C. Bernier, Placer Development. |

GEOLOGY

The claim group is underlain by the following rock types:

- 1/ Granite
- 2/ Gabbro
- 3/ Diorite
- 4/ Metasediments
- 5/ Iron formation
- 6/ Felsic volcanics
- 7/ Mafic volcanics

The distribution of the rock types is shown on Drawing No. 116-164 included with this report.

The volcanics consist of two cycles, with 1M being the mafic base, overlain by the 1F felsic unit and in turn is overlain by 2M, the mafic unit of the second cycle. The 2M volcanics are in contact with a basal conglomerate of the overlying metasediments. The mafic units are

basaltic in composition and the felsic unit is of rhyolitic composition. Granite, gabbro and diorite intrude the volcanic sequence throughout the property. The iron formation is found in association with the felsic volcanics.

T A B L E 2

Drill Hole Summary

| <u>Drill Hole</u> | <u>Location</u> | <u>Claim No</u> | <u>Azimuth</u> ^o | <u>Dip</u> ^o | <u>Depth</u> |
|-------------------|-----------------------|-----------------|-----------------------------|-------------------------|--------------|
| 87-34 | Grid 7 2+50E/2+50N | 415485-2 | 325 | -46 | 102.48m |
| 87-35 | Grid 5 1+00W/3+70N | 411135-1 | 140 | -47 | 174.16m |
| 87-36 | Grid 1 5+50E/3+00N | 411128-1 | 140 | -47 | 166.53m |
| 87-37 | Grid 3 0+00/2+25N | 411126-5 | 170 | -46 | 96.99m |

Hole 87-34

This hole tested Grid 7 and was drilled to a depth of 102.48m. The rock types intersected were basalt, rhyolite and feldspar porphyry. Pyrite and pyrrhotite stringers at 28m, 55m and 58m were considered to be the sources of the HLEM conductor. Eight samples were taken for assay and no economic gold or silver assays were returned.

Hole 87-35

This hole tested Grid 5 and was drilled to a depth of 174.16m. The rock type intersected was basalt. Pyrite and pyrrhotite stringers at 82m, 90m, 96m, 103m, 111m and 145m were considered to be the sources of the HLEM conductor. A total of 30 samples were taken for assay and no economic gold or silver values were returned.

Hole 87-36

This hole tested Grid 1 and was drilled to a depth of 166.53m. The rock types intersected were basalt and rhyolite. Pyrite and pyrrhotite stringers at 136m, 142m, 152m and 154m, along with 10 cm of massive pyrrhotite and quartz at 159m were considered to be the sources of the HLEM conductor. A total of 14 samples were taken for assay and no economic gold or silver values were returned.

Hole 87-37

This hole tested Grid 3 and was drilled to a depth of 96.99m. The rock types intersected were diorite and garnetiferous rhyolite. Pyrite and pyrrhotite stringers at 43m and 1 cm of massive pyrrhotite and 59m were considered to be the sources of the HLEM conductor. A total of six samples were taken for assay and no economic gold or silver values were returned.

CONCLUSIONS

- 1/ The HLEM conductors were confirmed by the diamond drilling programme.
- 2/ No economic gold or silver assays were returned.
- 3/ The conductors sampled and the rocks adjacent to them are anomalous in gold, with values ranging from .04 g/t to 0.48 g/t.

RECOMMENDATION

Rock geochem of outcrops and boulders to determine areas of anomalous gold and then IP followed by diamond drilling.



November 1987

C. Hilgendorf

APPENDIX I

**Drill Logs and Sections
(DDH 87-34, 35, 36, 37)**

DRILLHOLE: 87CH34 BQ V116 EASTMAIN OTHER LANDS CL. 415485-2
 COORDINATES: Latitude= 250.00 Departure= 250.00

TRUE AZIMUTH OF HOLE: 325.00 VERTICAL ANGLE: -46.00
 TOTAL DEPTH OF HOLE: 102.48mt.
 Logged by: CH on (day/mo/yr)... AUG87

OTHER LANDS GRID 7

 FROM 00.00MT. TO 3.05MT.
 OVERBURDEN ,
 CASING TO 10.00M

FROM 3.05MT. TO 10.37MT.
 BASALT fine grained, very dark green, with FELDSPAR , , and BIOTITIC CHLORITIC
 Textures noted: MASSIVE
 Structures noted: MICROVEINS dip 70, MICROVEINS dip 20
 1% QUARTZ as microveins
 .1% BIOTITE as laminations, bedded
 7.320 MT. was the core recovery over the above interval

FROM 10.37MT. TO 14.53MT.
 RHYOLITE fine grained, light grey,
 Textures noted: BANDED
 Structures noted: CONTACT dip 20, BANDING dip 20
 20% QUARTZ as eyes, augen
 10% BIOTITE as laminations, bedded
 .03% GARNETS as rosettes & crystal clusters
 .3% PYRITE as disseminations and scattered crystals
 10% SERICITE as laminations, bedded
 .3% PYRRHOTITE as disseminations and scattered crystals
 4.160 MT. was the core recovery over the above interval
 BASALTIC REMNANTS MAKE UP 8 PERCENT
 OF THE UNIT

FROM 14.53MT. TO 20.13MT.
 BASALT fine grained, medium green, with FELDSPAR , , and CHLORITIC BIOTITIC
 Textures noted: MASSIVE
 Structures noted: MICROVEINS dip 20, MICROVEINS dip 45
 10% CARBONATE as laminations, bedded
 5.600 MT. was the core recovery over the above interval

FROM 20.13MT. TO 20.63MT.
 FELDSPAR PORPHYRY medium grained, very dark green, with FELDSPAR , ,

DRILLHOLE: 87CH34 BQ V116 EASTMAIN OTHER LANDS CL. 415485-2
 COORDINATES: Latitude= 250.00 Departure= 250.00

cont'd

Textures noted: MASSIVE
 Structures noted: CONTACT dip 20,
 .5009 MT. was the core recovery over the above interval

FROM 20.63MT. TO 32.79MT.

BASALT fine grained, med. dark green, ; CHLORITIC BIOTITIC
 Textures noted: AMYGDALOIDAL , MASSIVE , PILLOWED
 Structures noted: MICROVEINS dip 20, MICROVEINS dip 45
 20% BIOTITE as laminations, bedded
 .1% GARNETS as rosettes & crystal clusters
 5% CARBONATE as microveins
 .3% PYRITE as disseminations and scattered crystals
 20% CHLORITE as pervasive mineralization
 1% PYRRHOTITE as laminations, bedded
 .3% PYRRHOTITE as disseminations and scattered crystals
 12.16 MT. was the core recovery over the above interval
 FROM 28.06 TO 28.67 STRINGERS OF
 PYRRHOTITE MAKE UP 5.0 PERCENT OF
 THIS INTERVAL

FROM 32.79MT. TO 46.67MT.

FELDSPAR PORPHYRY medium grained, very dark green, with FELDSPAR , ,
 Textures noted: MASSIVE , BANDED
 Structures noted: CONTACT dip 30, BANDING dip 30
 10% QUARTZ as eyes, augen
 10% BIOTITE as laminations, bedded
 .03% GARNETS as blebs
 10% SERICITE as laminations, bedded
 50% FELDSPAR as pervasive mineralization
 13.88 MT. was the core recovery over the above interval

FROM 39.04MT. TO 39.65MT.
 100% of this subinterval is

BASALT fine grained, med. dark green, ; CHLORITIC BIOTITIC
 Textures noted: PILLOWED
 Structures noted: MICROVEINS dip 30,
 .6109 MT. was the core recovery over the above interval
 CARBONATIZED PILLOW MARGINS

FROM 46.67MT. TO 93.33MT.

BASALT med. dark green, ; CHLORITIC BIOTITIC
 Textures noted: PILLOWED , AMYGDALOIDAL , MASSIVE
 Structures noted: MICROVEINS dip 20, MICROVEINS dip 80
 1% QUARTZ as macroveins

DRILLHOLE: 87CH34 BQ V116 EASTMAIN OTHER LANDS CL. 415485-2
 COORDINATES: Latitude= 250.00 Departure= 250.00

cont'd

20% BIOTITE as laminations, bedded
 10% CARBONATE as selvages
 20% CHLORITE as laminations, bedded
 2.5% PYRRHOTITE as laminations, bedded
 1% PYRRHOTITE as disseminations and scattered crystals

46.66 MT. was the core recovery over the above interval

FROM 93.33MT. TO 94.73MT.

RYHOLITE fine grained, pale grey, ; CHERTY
 Textures noted: BRECCIATED , MASSIVE , BANDED
 Structures noted: CONTACT dip 10, BANDING dip 20
 .1% GARNETS as rosettes & crystal clusters
 .1% SERICITE as laminations, bedded
 .1% PYRRHOTITE as laminations, bedded

1.400 MT. was the core recovery over the above interval

FROM 94.73MT. TO 98.67MT.

BASALT fine grained, med. dark green, ; CHLORITIC BIOTITIC
 Textures noted: MASSIVE
 Structures noted: BANDING dip 20, CONTACT dip 20
 .1% QUARTZ as macroveins
 30% BIOTITE as laminations, bedded
 2.5% CARBONATE as laminations, bedded
 .1% PYRRHOTITE as blebs

3.940 MT. was the core recovery over the above interval
 CHERTY BRECCIA

FROM 98.67MT. TO 102.48MT.

RYHOLITE fine grained, pale grey, ; EPIDOTIZED CHERTY
 Textures noted: MASSIVE , BANDED
 Structures noted: BANDING dip 20, CONTACT dip 20
 .1% GARNETS as rosettes & crystal clusters
 10% EPIDOTE as pervasive mineralization
 .1% SERICITE as laminations, bedded
 .1% PYRRHOTITE as laminations, bedded

3.810 MT. was the core recovery over the above interval
 28.00 to 58.00

ASSUMED CONDUCTOR
 END OF HOLE

REOH 10248 10248

IN-HOLE SURVEY AT 98.52 MT.

TRUE AZIMUTH OF HOLE: 340.00 VERTICAL ANGLE: -42.00

A001

AUMM

ALAB

GMT AU GMT AG PPM CU PPM ZN
 CHEMEX CHEMEX CHEMEX CHEMEX

DRILLHOLE: 87CH34 BQ V116 EASTMAIN OTHER LANDS CL. 415485-2
 COORDINATES: Latitude= 250.00 Departure= 250.00

cont'd

| ATYP | | | HCORE | HCORE | HCORE | HCORE | |
|------|-------|-------|-------|-------|-------|-------|-----|
| AMTH | | | FA | FA | AA | AA | |
| A001 | 27.06 | 28.06 | 19651 | 0.27 | 1.00 | 90 | 192 |
| A001 | 28.06 | 28.67 | 19652 | 0.48 | 1.70 | 433 | 226 |
| A001 | 28.67 | 29.67 | 19653 | 0.07 | 0.80 | 68 | 143 |
| A001 | 54.50 | 55.00 | 19654 | 0.07 | 0.50 | 288 | 43 |
| A001 | 55.00 | 55.49 | 19655 | 0.07 | 0.50 | 110 | 67 |
| A001 | 57.38 | 57.88 | 19656 | 0.27 | 0.50 | 102 | 58 |
| A001 | 57.88 | 58.38 | 19657 | 0.48 | 0.50 | 170 | 66 |
| A001 | 58.38 | 58.88 | 19658 | 0.21 | 0.50 | 125 | 88 |

/END

DRILLHOLE: B7CH35 BQ V116 EASTMAIN OTHER LANDS CL. 411135-1
 COORDINATES: Latitude= 370.00 Departure= -100.00

TRUE AZIMUTH OF HOLE: 140.00 VERTICAL ANGLE: -47.00

TOTAL DEPTH OF HOLE: 174.16mt.

Logged by: CH on (day/mo/yr)... AUG87

IN-HOLE SURVEY AT 170.19 MT.

TRUE AZIMUTH OF HOLE: 143.00 VERTICAL ANGLE: -44.00

OTHER LANDS GRID 5

FROM 00.00MT. TO 5.80MT.
 OVERBURDEN

FROM 5.80MT. TO 6.10MT.
 FELDSPAR PORPHYRY medium grained, medium grey, with FELDSPAR , ,
 Textures noted: MASSIVE
 .3009 MT. was the core recovery over the above interval

FROM 6.10MT. TO 23.79MT.
 BASALT dark green, ; CHLORITIC
 Textures noted: MASSIVE , AMYGDALOIDAL , PILLOWED
 Structures noted: MICROVEINS dip 30, MICROVEINS dip 70
 2.5% QUARTZ as macroveins
 5% CARBONATE as microveins
 1% PYRITE as disseminations and scattered crystals
 10% CHLORITE as pervasive mineralization
 .3% EPIDOTE as selvages
 .3% PYRITE as selvages
 17.60 MT. was the core recovery over the above interval
 CONTACT IS GRADATIONAL

FROM 23.79MT. TO 174.16MT.
 BASALT fine grained, medium green, with FELDSPAR , , and CHLORITIC
 Textures noted: AMYGDALOIDAL , MASSIVE , PILLOWED
 Structures noted: MICROVEINS dip 45, MICROVEINS dip 70
 1% QUARTZ as macroveins
 5% CARBONATE as microveins
 1% PYRITE as disseminations and scattered crystals
 .03% POTASSIUM FELDSPAR as macroveins
 10% CHLORITE as pervasive mineralization
 .3% EPIDOTE as selvages
 .3% PYRRHOTITE as disseminations and scattered crystals
 150.3 MT. was the core recovery over the above interval

FROM 74.73MT. TO 75.95MT.

DRILLHOLE: 87CH35 BQ V116 EASTMAIN OTHER LANDS CL. 411135-1
COORDINATES: Latitude= 370.00 Departure= -100.00

cont'd

100% of this subinterval is
BASALT fine grained, medium green,
Textures noted: BRECCIATED
BRECCIATED AND HEALED WITH QUARTZ CARBONATE

FROM 82.20MT. TO 83.72MT.
40% of this subinterval is
QUARTZ VEIN white,
Structures noted: MACROVEINS dip 90,
10% PYRITE as laminations, bedded
.3% CHALCOPYRITE as blebs
10% PYRRHOTITE as laminations, bedded
VEIN IS 40 PERCENT CALCITE

FROM 90.28MT. TO 92.88MT.
100% of this subinterval is
BASALT fine grained, medium green,
Textures noted: FOLIATED
Structures noted: MACROVEINS dip 80,
40% CARBONATE as macroveins
10% PYRITE as laminations, bedded
.3% CHALCOPYRITE as blebs
10% PYRRHOTITE as laminations, bedded
HEALED WITH SULPHIDES AND CARBONATE

FROM 96.08MT. TO 97.73MT.
100% of this subinterval is
BASALT fine grained, medium green,
Textures noted: FOLIATED
Structures noted: MACROVEINS dip 80,
10% CARBONATE as macroveins
5% PYRITE as laminations, bedded
5% PYRRHOTITE as laminations, bedded
HEALED WITH SULPHIDES AND CARBONATE

FROM 102.98MT. TO 103.48MT.
100% of this subinterval is
BASALT fine grained, medium green,
Textures noted: FOLIATED
Structures noted: MACROVEINS dip 80,
10% CARBONATE as macroveins
5% PYRITE as laminations, bedded
5% PYRRHOTITE as laminations, bedded
HEALED WITH SULPHIDES AND CARBONATE

FROM 111.43MT. TO 112.43MT.
100% of this subinterval is

DRILLHOLE: 87CH35 BQ V116 EASTMAIN OTHER LANDS CL. 411135-1
 COORDINATES: Latitude= 370.00 Departure= -100.00

cont'd

BASALT fine grained, medium green,
 Structures noted: MACROVEINS dip 45,
 10% CARBONATE as macroveins
 5% PYRITE as laminations, bedded
 5% PYRRHOTITE as laminations, bedded

FROM 136.03MT. TO 174.16MT.
 70% of this subinterval is

ALTERED BASALT medium green, with FELDSPAR , , and EPIDOTIZED
 SILICIFIED
 Textures noted: AMYGDALOIDAL
 Structures noted: MACROVEINS dip 70, MACROVEINS dip 45
 2.5% QUARTZ as macroveins
 20% BIOTITE as laminations, bedded
 2.5% CARBONATE as macroveins
 10% PYRITE as laminations, bedded
 .3% POTASSIUM FELDSPAR as microveins
 20% CHLORITE as pervasive mineralization
 20% EPIDOTE as pervasive mineralization
 2.5% PYRRHOTITE as laminations, bedded
 2.5% PYRITE as disseminations and scattered crystals
 AT 145.18 M 10 PERCENT PYRITE
 AT 147.18 M 20 PERCENT PYRRHOTITE WITH
 A TRACE OF CHALCOPYRITE AND SPHALERITE
 PYRITE IS IN CUBES UP TO 1 CM
 FROM 148.23 M SHOT THROUGH WITH GRANO
 DIORITE INTRUSIONS UP TO 40 PERCENT OF THE
 CORE GRANO DIORITE INTRUSIONS END AT 166.53
 METERS AND SULPHIDE CONTENT DROPS OFF

82.20 to 147.18

ASSUMED TO BE THE CONDUCTOR
 END OF HOLE

REQH 17416 17416

/END

A001

AUMN

ALAB

ATYP

AMTH

| | | | GMT AU | GMT AG | PPM CU | PPM ZN | |
|------|-------|-------|--------|--------|--------|--------|-----|
| | | | CHEMEX | CHEMEX | CHEMEX | CHEMEX | |
| | | | HCDRE | HCDRE | HCDRE | HCDRE | |
| | | | FA | FA | AA | AA | |
| A001 | 81.20 | 82.20 | 19659 | 0.07 | 0.15 | 95 | 56 |
| A001 | 82.20 | 83.72 | 19660 | 0.04 | 0.80 | 1000 | 34 |
| A001 | 83.72 | 84.72 | 19661 | 0.04 | 0.15 | 286 | 48 |
| A001 | 89.28 | 90.28 | 19667 | 0.04 | 0.30 | 140 | 65 |
| A001 | 90.28 | 91.63 | 19668 | 0.04 | 0.50 | 336 | 88 |
| A001 | 91.63 | 92.88 | 19669 | 0.04 | 0.50 | 1000 | 730 |
| A001 | 93.88 | 94.88 | 19670 | 0.04 | 0.15 | 120 | 70 |
| A001 | 94.88 | 96.08 | 19671 | 0.04 | 0.50 | 150 | 42 |

DRILLHOLE: 87CH35 BQ V116 EASTMAIN OTHER LANDS CL. 411135-1
COORDINATES: Latitude= 370.00 Departure= -100.00

cont'd

| AUMM | | | GMT AU | GMT AG | PPM CU | PPM ZN |
|------|--------|--------|--------|--------|--------|---------|
| A001 | 96.08 | 97.73 | 19672 | 0.04 | 0.30 | 212 43 |
| A001 | 97.73 | 98.53 | 19673 | 0.04 | 0.15 | 148 46 |
| A001 | 101.98 | 102.98 | 19674 | 0.04 | 0.15 | 156 49 |
| A001 | 102.98 | 103.48 | 19675 | 0.04 | 0.50 | 238 60 |
| A001 | 103.48 | 104.48 | 19676 | 0.04 | 0.15 | 44 35 |
| A001 | 110.43 | 111.43 | 19677 | 0.04 | 0.15 | 72 38 |
| A001 | 111.43 | 112.43 | 19678 | 0.04 | 0.30 | 143 53 |
| A001 | 112.43 | 113.13 | 19679 | 0.04 | 0.30 | 116 50 |
| A001 | 143.68 | 144.68 | 19680 | 0.04 | 0.50 | 169 250 |
| A001 | 144.68 | 146.18 | 19681 | 0.04 | 1.00 | 192 970 |
| A001 | 146.18 | 147.68 | 19682 | 0.04 | 0.50 | 254 760 |
| A001 | 147.68 | 148.23 | 19683 | 0.04 | 1.00 | 530 410 |
| A001 | 151.78 | 152.78 | 19684 | 0.04 | 0.30 | 95 204 |
| A001 | 152.78 | 154.28 | 19685 | 0.04 | 0.50 | 98 230 |
| A001 | 154.28 | 155.78 | 19686 | 0.04 | 0.50 | 204 152 |
| A001 | 155.78 | 157.28 | 19687 | 0.04 | 0.50 | 206 129 |
| A001 | 157.28 | 158.78 | 19688 | 0.04 | 0.50 | 79 110 |
| A001 | 158.78 | 160.28 | 19689 | 0.04 | 0.50 | 84 100 |
| A001 | 160.28 | 161.78 | 19690 | 0.04 | 0.50 | 72 100 |
| A001 | 161.78 | 162.98 | 19691 | 0.34 | 0.80 | 256 70 |
| A001 | 162.98 | 164.48 | 19692 | 0.07 | 0.50 | 200 94 |
| A001 | 164.48 | 165.48 | 19693 | 0.14 | 0.50 | 119 105 |

/END

DRILLHOLE: 87CH36 BQ V116 EASTMAIN OTHER LANDS CL. 411128-1
 COORDINATES: Latitude= 300.00 Departure= 550.00

TRUE AZIMUTH OF HOLE: 140.00 VERTICAL ANGLE: -47.00
 TOTAL DEPTH OF HOLE: 166.53mt.

Logged by: CH on (day/mo/yr)... SEP87

OTHER LANDS GRID 1

FROM 00.00MT. TO 26.84MT.
 OVERBURDEN ,
 BOULDERS AND SAND

FROM 26.84MT. TO 103.98MT.
 BASALT fine grained, medium green, with FELDSPAR , , and BIOTITIC CHLORITIC
 Textures noted: BANDED , MASSIVE
 Structures noted: BANDING dip 70, MICROVEINS dip 45
 .03% QUARTZ as macroveins
 5% BIOTITE as laminations, bedded
 .1% GARNETS as blebs
 5% CARBONATE as pervasive mineralization
 1% PYRITE as disseminations and scattered crystals
 5% CHLORITE as pervasive mineralization
 1% PYRRHOTITE as disseminations and scattered crystals
 5% FELDSPAR as laminations, bedded
 77.14 MT. was the core recovery over the above interval

FROM 103.98MT. TO 119.13MT.
 RYHOLITE fine grained, pale grey, ; BIOTITIC
 Textures noted: MASSIVE
 Structures noted: CONTACT dip 80, MICROVEINS dip 45
 .1% QUARTZ as macroveins
 40% BIOTITE as pervasive mineralization
 10% MUSCOVITE as patches
 .1% SERICITE as blebs
 15.15 MT. was the core recovery over the above interval
 PORPHYRITIC

FROM 119.13MT. TO 166.53MT.
 BASALT fine grained, very dark green, ; CHLORITIC
 Textures noted: , MASSIVE
 Structures noted: MICROVEINS dip 70, MICROVEINS dip 45
 10% BIOTITE as laminations, bedded
 .1% GARNETS as patches
 .1% CARBONATE as microveins
 1% PYRITE as laminations, bedded

DRILLHOLE: B7CH36 BQ V116 EASTMAIN OTHER LANDS CL. 411128-1
 COORDINATES: Latitude= 300.00 Departure= 550.00

cont'd

30% CHLORITE as pervasive mineralization
 .1% EPIDOTE as patches
 1% PYRRHOTITE as laminations, bedded
 5% FELDSPAR as laminations, bedded

47.40 MT. was the core recovery over the above interval
 PYROXENITIC FROM 129.93 TO 136.03

FROM 136.03MT. TO 137.56MT.

100% of this subinterval is the same as 119.13MT. to 166.53MT. except as noted
 BASALT ,
 10% PYRITE as laminations, bedded
 .03% CHALCOPYRITE as blebs

FROM 142.13MT. TO 143.65MT.

100% of this subinterval is the same as 119.13MT. to 166.53MT. except as noted
 BASALT ,
 .03% CHALCOPYRITE as blebs
 10% PYRRHOTITE as laminations, bedded
 .1% SPHALERITE as blebs

FROM 152.59MT. TO 153.19MT.

100% of this subinterval is the same as 119.13MT. to 166.53MT. except as noted
 BASALT ,
 10% PYRITE as laminations, bedded
 10% PYRRHOTITE as laminations, bedded

FROM 154.83MT. TO 159.28MT.

100% of this subinterval is the same as 119.13MT. to 166.53MT. except as noted
 BASALT ,
 20% BIOTITE as laminations, bedded
 10% PYRRHOTITE as laminations, bedded
 AT 159.08 M 10CM OF MASSIVE PYRRHOTITE
 AND QUARTZ

130.63 to 159.28

ASSUMED CONDUCTOR
 END OF HOLE

REQH

IN-HOLE SURVEY AT 162.57 MT.

TRUE AZIMUTH OF HOLE: 153.00 VERTICAL ANGLE: -46.00

| AUMM | GMT AU | GMT AG | PPM CU | PPM ZN |
|--------------------|--------|-----------|--------|--------|
| ALAB | CHEMEX | CHEMEX | CHEMEX | CHEMEX |
| ATYP | HCDRE | HCDRE | HCDRE | HCDRE |
| ANTH | FA | FA | AA | AA |
| A001 135.13 136.03 | 19694 | 0.21 1.30 | 40 | 1200 |
| A001 136.03 137.56 | 19695 | 0.21 2.30 | 191 | 1230 |
| A001 137.56 138.56 | 19696 | 0.14 1.00 | 85 | 80 |
| A001 141.13 142.13 | 19697 | 0.27 0.50 | 123 | 230 |
| A001 142.13 143.65 | 19698 | 0.41 1.30 | 174 | 950 |

DRILLHOLE: B7CH36 BQ V116 EASTMAIN OTHER LANDS CL. 411128-1
COORDINATES: Latitude= 300.00 Departure= 550.00

cont'd
AUMM GMT AU GMT AG PPM CU PPM ZN
A001 143.65 144.65 19699 0.24 1.30 129 178
A001 151.28 152.59 19700 0.48 0.50 127 86
A001 152.59 153.19 19701 0.10 1.00 233 156
A001 153.19 154.09 19702 0.10 0.50 163 113
A001 154.09 154.83 19703 0.27 1.00 142 130
A001 154.83 156.38 19704 0.10 1.00 258 310
A001 156.38 157.78 19705 0.34 1.00 281 2700
A001 157.78 159.28 19706 0.27 1.30
A001 159.28 160.73 19707 0.27 0.80
/END

DRILLHOLE: 87CH37 BQ V116 EASTMAIN OTHER LANDS CL. 411126-5
COORDINATES: Latitude= 225.00 Departure= 000.00

TRUE AZIMUTH OF HOLE: 170.00 VERTICAL ANGLE: -46.00
TOTAL DEPTH OF HOLE: 96.99mt.

Logged by: CH on (day/mo/yr)... SEP87

OTHER LANDS GRID 3

FROM 00.00MT. TO 17.08MT.
OVERBURDEN ,
SAND AND BOULDERS

FROM 17.08MT. TO 20.73MT.
RYHOLITE fine grained, pale grey, ; GARNETIFEROUS
Textures noted: BANDED , FOLIATED
Structures noted: BANDING dip 60, FOLIATION dip 60
20% QUARTZ as eyes, augen
.3% BIOTITE as laminations, bedded
1% PYRITE as disseminations and scattered crystals
20% MUSCOVITE as laminations, bedded
3.650 . was the core recovery over the above interval

FROM 20.73MT. TO 22.55MT.
DIORITE dark green, with FELDSPAR , , and GARNETIFEROUS
Textures noted: FOLIATED
Structures noted: CONTACT dip 60,
.3% GARNETS as patches
10% CHLORITE as pervasive mineralization
1.820 . was the core recovery over the above interval

FROM 22.55MT. TO 25.28MT.
RYHOLITE fine grained, pale grey, ; GARNETIFEROUS
Textures noted: FOLIATED , BANDED
Structures noted: CONTACT dip 60, BANDING dip 60
20% QUARTZ as eyes, augen
% GARNETS as patches
1% PYRITE as disseminations and scattered crystals
30% MUSCOVITE as laminations, bedded
.3% CHLORITE as laminations, bedded
2.730 . was the core recovery over the above interval

FROM 25.28MT. TO 46.05MT.

DRILLHOLE: 87CH37 BQ V116 EASTMAIN OTHER LANDS CL. 411126-5
 COORDINATES: Latitude= 225.00 Departure= 000.00

cont'd

DIORITE fine grained, dark green, with FELDSPAR , ,
 Structures noted: FOLIATION dip 45, CONTACT dip 60
 1% CARBONATE as microveins
 .3% PYRITE as disseminations and scattered crystals
 20% CHLORITE as pervasive mineralization
 40% FELDSPAR as euhedral crystals

20.77 . was the core recovery over the above interval

FROM 43.63MT. TO 46.05MT.
 100% of this subinterval is

DIORITE fine grained, dark green,
 Structures noted: BANDING dip 60,
 2.5% BIOTITE as laminations, bedded
 1% GARNETS as pervasive mineralization
 5% PYRITE as laminations, bedded
 20% SERICITE as laminations, bedded
 5% PYRRHOTITE as laminations, bedded
 .03% PYRITE as euhedral crystals
 SHOT THROUGH WITH RHYOLITE

FROM 46.05MT. TO 76.53MT.

RHYOLITE fine grained, pale grey, with GARNETS , , and GARNETIFEROUS
 Textures noted: BANDED
 Structures noted: CONTACT dip 60, BANDING dip 60
 1% BIOTITE as laminations, bedded
 20% GARNETS as pervasive mineralization
 .3% PYRITE as laminations, bedded
 1% CHALCOPYRITE as disseminations and scattered crystals
 1% CHLORITE as blebs
 10% SERICITE as laminations, bedded
 .3% PYRRHOTITE as laminations, bedded

30.48 . was the core recovery over the above interval

AT 53.28 ICM OF MASSIVE PYRRHOTITE
 SEVERAL DIORITE REMNANTS WITHIN THE
 RHYOLITE UNIT

FROM 76.53MT. TO 96.99MT.

DIORITE fine grained, dark green, with FELDSPAR , ,
 Structures noted: CONTACT dip 45, dip 45
 .03% QUARTZ as macroveins
 .03% CARBONATE as microveins
 .3% PYRITE as disseminations and scattered crystals
 30% CHLORITE as pervasive mineralization
 .3% PYRRHOTITE as disseminations and scattered crystals

20.46 . was the core recovery over the above interval

DRILLHOLE: 87CH37 BQ V116 EASTMAIN OTHER LANDS CL. 411126-5
 COORDINATES: Latitude= 225.00 Departure= 000.00

cont'd

GRADING TO GABBRDIC

43.63 to 46.05

ASSUMED TO BE THE CONDUCTOR

REQH 9699 9699

END OF HOLE

IN-HOLE SURVEY AT 93.03 MT.

TRUE AZIMUTH OF HOLE: 178.00 VERTICAL ANGLE: -44.00

| AUMM | ALAB | ATYP | AMTH | GMT AU | GMT AG |
|------|-------|-------|-------|--------|--------|
| | | | | HCORE | HCORE |
| | | | | FA | FA |
| A001 | 20.13 | 20.73 | 19708 | 0.07 | 0.15 |
| A001 | 42.73 | 43.63 | 19709 | 0.07 | 0.50 |
| A001 | 43.63 | 45.13 | 19710 | 0.27 | 1.00 |
| A001 | 45.13 | 46.05 | 19711 | 0.48 | 0.15 |
| A001 | 46.05 | 46.53 | 19712 | 0.21 | 0.15 |
| A001 | 53.08 | 53.68 | 19713 | 0.07 | 0.15 |

A004

| AUMM | ALAB | ATYP | AMTH | GMT AU | GMT AU | GMT AU | GMT AU |
|------|-------|-------|-------|--------|--------|--------|--------|
| | | | | HCORE | CORE | HCORE | CORE |
| | | | | FA | FA | FA | FA |
| A004 | 43.63 | 45.13 | 19710 | 0.41 | 0.27 | 0.17 | 0.24 |
| A004 | 43.63 | 45.15 | 12235 | 0.21 | | | |
| A003 | 45.13 | 46.05 | 12236 | 0.14 | | | |

RASAY

A004 CONTAINS CHECK ASSAYS.

/END

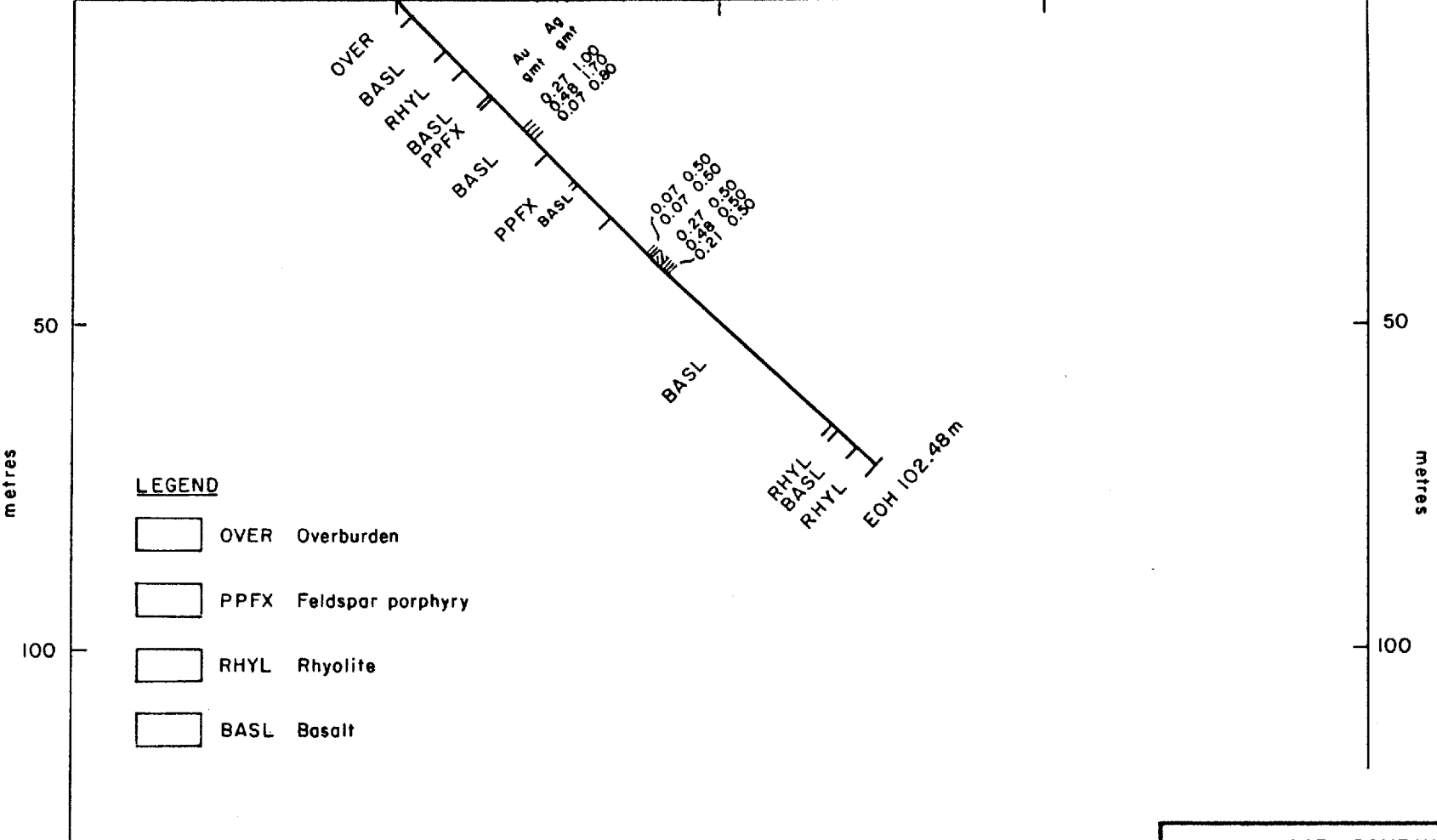
Twp. 2535
Cl. 415485-2

87-34

HLEM CONDUCTOR

2+00N 2+50N 3+00N 3+50N 4+00N

325° →



LEGEND

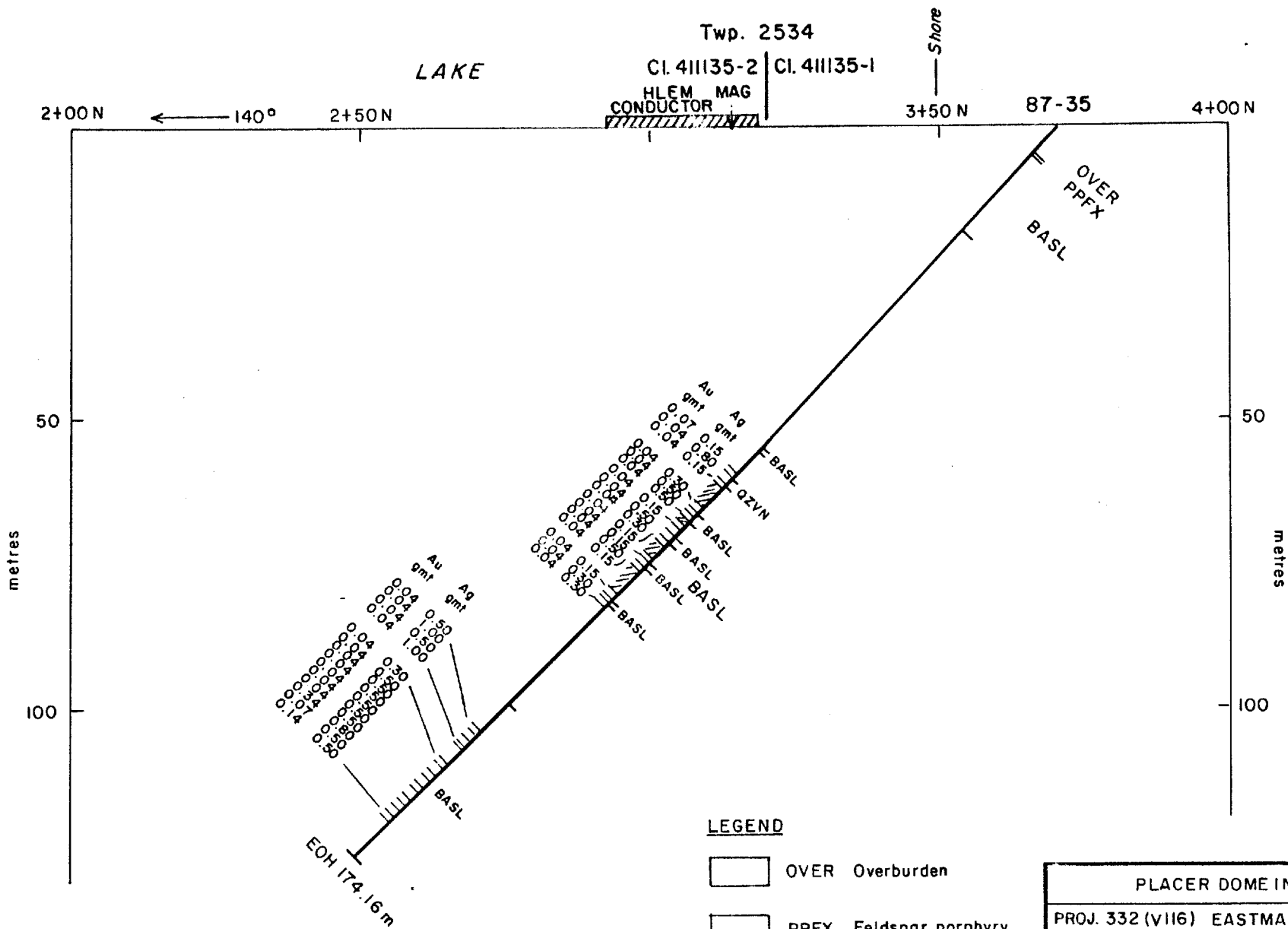
OVER Overburden

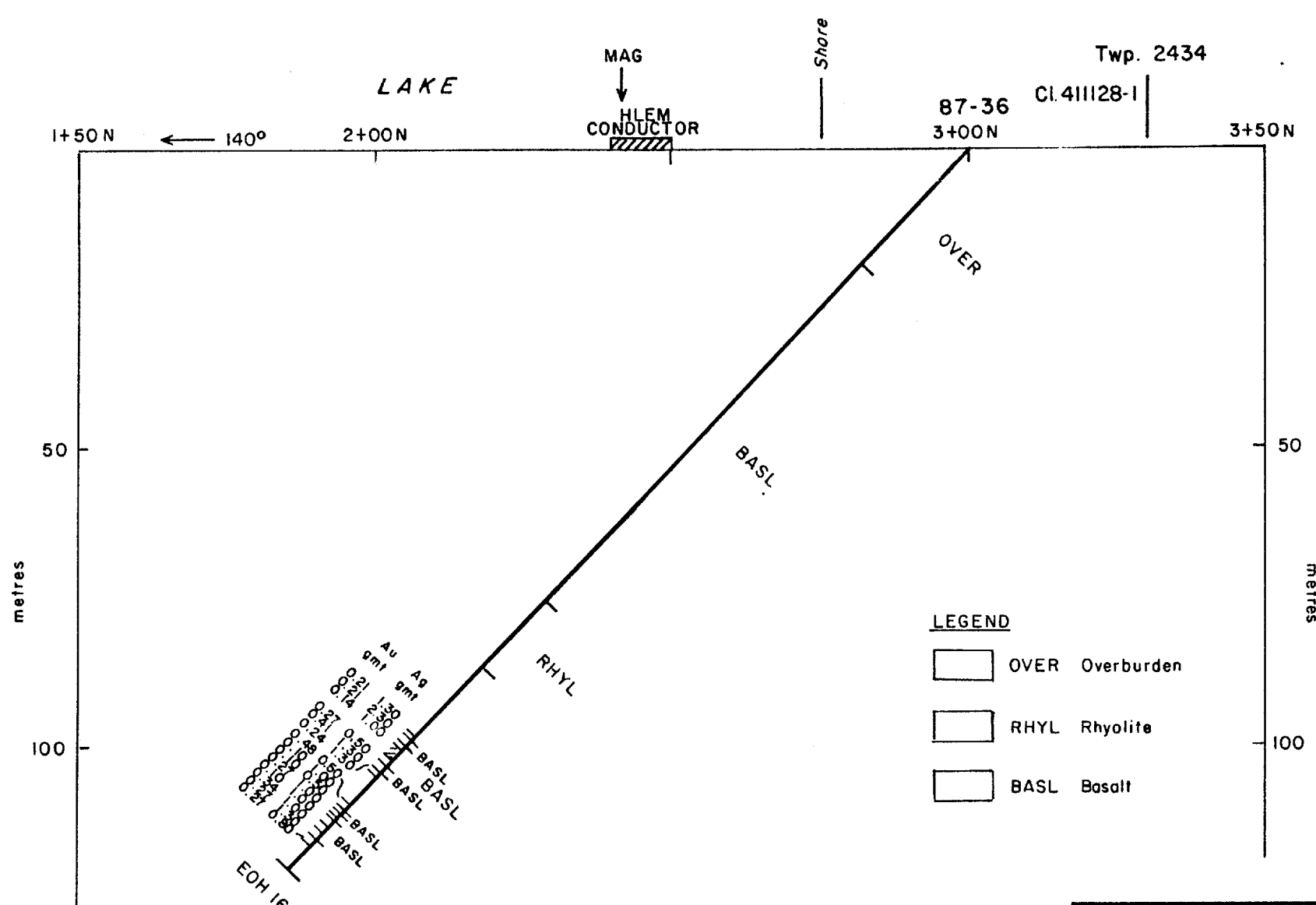
PPFX Feldspar porphyry

RHYL Rhyolite

BASL Basalt

| | | | | |
|-----------------------------------|---------|------|------------|----------|
| PLACER DOME INC. | | | | |
| PROJ. 332 (VII6) EASTMAIN, QUEBEC | | | | |
| DDH SECTION 2+50E | | | | |
| GRID 7, OTHER LANDS | | | | |
| looking Grid West (235°) | | | | |
| SCALE | DATE | BY | N.T.S. No. | DWG. No. |
| 1:1000 | NOV.'87 | J.W. | 33A-8 | 332-1 |



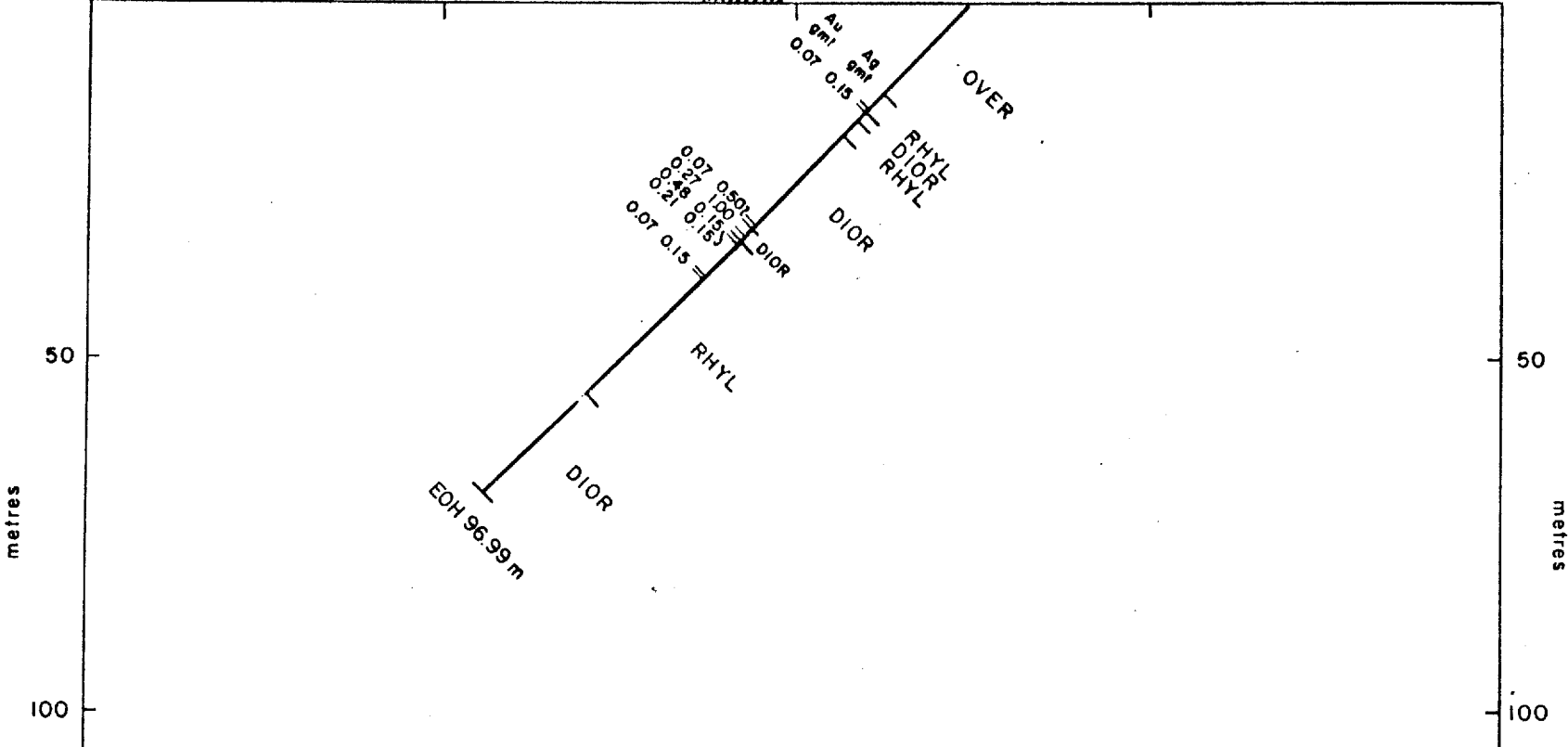


LEGEND

- OVER Overburden
- RHYL Rhyolite
- BASL Basalt

| | | | | |
|-----------------------------------|----------|------|----------|----------|
| PLACER DOME INC. | | | | |
| PROJ. 332 (VII6) EASTMAIN, QUEBEC | | | | |
| DDH SECTION 5+50E | | | | |
| GRID 1, OTHER LANDS | | | | |
| looking Grid West (230°) | | | | |
| SCALE | DATE | BY | NTS. No. | DWG. No. |
| 1:1000 | NOV. '87 | J.W. | 33A-8 | 332-3 |

1+00 N ← 170° 1+50 N HLEM CONDUCTOR 87-37 2+50 N 3+00 N
 CI. 411126-5
 Twp. 2434



- LEGEND**
- OVER Overburden
 - DIOR Diorite
 - RHYL Rhyolite

| | | | | |
|-----------------------------------|---------|------|------------|----------|
| PLACER DOME INC. | | | | |
| PROJ. 332 (VII6) EASTMAIN, QUEBEC | | | | |
| DDH SECTION 0+00 | | | | |
| GRID 3, OTHER LANDS | | | | |
| looking Grid West (260°) | | | | |
| SCALE | DATE | BY | N.T.S. No: | DWG. No: |
| 1:1000 | NOV '87 | J.W. | 33A-8 | 332-4 |

APPENDIX II

Statement of Expenditures

O T H E R L A N D S

Statement of Expenditures
August to September 1987

| | |
|------------------------|--------------------|
| Diamond Drilling | \$48,237.11 |
| Helicopter | 24,390.00 |
| Assaying | 812.00 |
| Geology | 7,904.64 |
| | <hr/> |
| TOTAL: | <u>\$81,343.75</u> |