

8H-1210-13231
10/85

GEOLOGICAL & GEOPHYSICAL REPORT ON THE

PRIME CLAIM

Similkameen

NICOLA MINING DIVISION

SUMMERS CREEK, BRITISH COLUMBIA

LOCATION

N.T.S.: 92H-16W
LATITUDE: 49° 45' 37"
LONGITUDE: 120° 29' 33"

FOR

GIANT PIPER EXPLORATION INC.
900-837 WEST HASTINGS STREET
VANCOUVER, BRITISH COLUMBIA
V6C 1B6

BY

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DECEMBER 14, 1984

GEOLOGICAL BRANCH
ASSESSMENT REPORT

13,231

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LIST OF MAPS

MAP 1. GEOLOGICAL AND GEOPHYSICAL PLAN (in pocket)
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SUMMARY

The Prime Claim consisting of 16 units is situated southeast of Missezula Lake and east of Summers Creek. The claim is adjacent to the Missezula Lake Road from kilometers 28 to 30 from Highway 5. The claim was staked to cover copper showings in the Nicola Volcanics with renewed interest generated by detection of gold values near the southern boundary of the claim. Previous drilling and surface sampling by Newmont Exploration of Canada Ltd. has indicated a copper zone 200 meters by 15 to 30 meters with 5 meter sections averaging over 0.25 gold. Our sampling confirmed Newmont's results. The present program consisted of detailed VLF-EM and magnetic surveys over the main showing area at the boundary of the Prime and HG claims. A total of 12 line kilometers were surveyed with stations at 25 meter intervals. A strong VLF-EM anomaly was detected east of the mineralized zone. The VLF-EM anomaly corresponds with a strong magnetic gradient and may represent a contact or faulted contact. Further magnetic and VLF-EM will help define the geological setting with soil sampling of the anomalous zone for precious metals.

INTRODUCTION

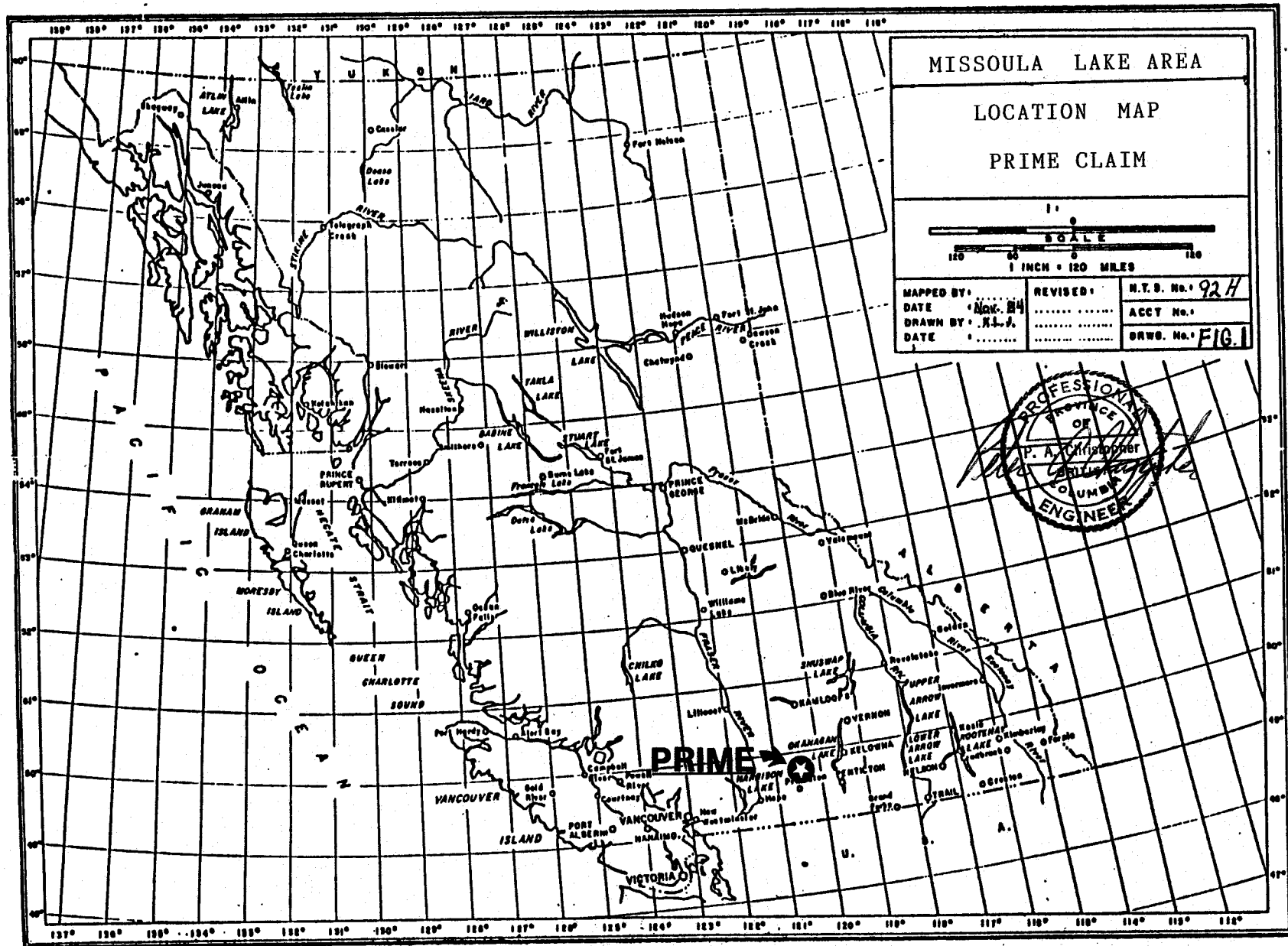
The Prime Claim consisting of the 16 units is situated in the Similkameen Mining Division about 30 kilometer north of Princeton, British Columbia. The property has easy road access to the western boundary with four-wheel-drive access to the showings. The writer has agreed to maintain the property in good standing for the claim owners. Peter Christopher & Associates was retained to conduct a geological and geophysical program on the Prime Claim. An initial program conducted on May 10, 1984 was not continued because of instrument problems. The main program was conducted by the writer with the assistance of Mr. Gerry Hayne between September 27 and September 30, 1984.

This report summarizes the results obtained from 12 kilometers of magnetic and VLF-EM survey over the main showing area and provides recommendations for further exploration of the claim.

LOCATION AND ACCESS (Figures I & II)

The Prime Claim is situated west of Summers Creek and southeast of Missezula Lake. The western claim boundary extends along the Missezula Lake Road from 28 to 30 kilometers east of Highway 5. The legal corner post is on the east side of the Missezula Lake road at a bridge crossing of Summers Creek. The area is considered part of the Thompson Plateau of south-central British Columbia. The property is situated at the southwest corner of map sheet 92 H 16W and centers at geographic coordinates of $049^{\circ} 45' 37''$ N. latitude and $120^{\circ} 29' 33''$ W. longitude.

Access is by the Missezula Lake Road which branches off Highway 5 about 8 kilometers north of Princeton, British Columbia. Missezula Lake is 30 kilometers by good gravel road from Highway 5. The Prime Claim can be reached by a 3.5-kilometer 4-wheel-drive road that branches to the east from the main road about 1.5 kilometers south of Missezula Lake, making for slow progress. Elevation varies from 975 meters (3100 feet) in the valley bottom to 1550 meters (5,100') in the eastern claim area.



MISSOULA LAKE AREA

LOCATION MAP

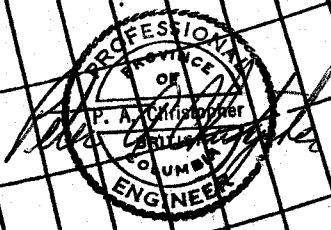
PRIME CLAIM

1" = 120 MILES

SCALE

120 60 0 60 120

MAPPED BY:	REVISED:	N.T.S. No. 924
DATE: Nov. 24	ACCT No.
DRAWN BY: H.L.J.	DRWD. No. FIG. 1
DATE:



MISSEZULA AREA

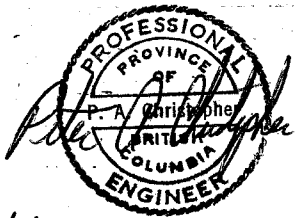
FIG. 2

92 H / 9, 10, 16 : N.T.S. LAKE

MISSEZULA LAKE AREA

INDEX MAP PRIME CLAIM
(N.T.S.: 92H-16W)

SCALE 1:50,000 NOV./1984



49°45' N.

7011 N	7011 W	7011 E	7011 S	7011 T
RUM 302	RUM 29177 N	RUM 266		

32510	32510 0	12
-------	---------	----

GENERAL RESERVE
MILE EITHER SIDE
C 1242, 70 04 14
LEASE REQUIRED

RUM 1
833 (3)

BFD 4	37013
BED 51	32422
BED 51	52214 (II)
BAD 71	38413

MS-13	MS-16
476 (II)	477 (II)
MS-13	MS-14
474 (II)	478 (II)
MS-1	MS-2
462 (II)	463 (II)
MS-13	MS-4
464 (II)	465 (II)
MS-5	MS-6
466 (II)	467 (II)
MS-7	MS-8
468 (II)	469 (II)
MS-9	MS-10
470 (II)	471 (II)
MS-11	MS-12
472 (II)	473 (II)

HG 5

HG 2 HG 1
HG 3

GRID AREA

Missezula L.
Miltard Cr.

PRIME 1
323 (5)

PRIME
702 (B)

PRIME 2
410 (B)

PRIME 2
410 (B)

FORD
24177 C

FORD
24177 C

120° 07'

B.C. 346

990

Vinson Creek

Summers Cr.

Summers Cr.

MISSEZULA MTN.

PROPERTY DEFINITION

The Prime Claim consisting of sixteen grid units was recorded on August 21, 1979 by Gordon Guthrath. The claims were staked using the modified grid system and extends four units north and four units east from a legal corner post situated adjacent to the Missezula Lake Road. Table 1 summarizes pertinent claim data and Figure 2 from British Columbia government claim maps shows the approximate location of the Prime Claim. The legal corner post and the 2E, 3E and 4E post were located in the field. Grid line 00 corresponds with the southern boundary of the Prime Claim and was blazed and flagged. The location of the surveyed area is shown on Figure 2.

Table I. Pertinent Claim Data For MS Claims.

<u>CLAIM</u>	<u>TAG #</u>	<u>RECORD #</u>	<u>DATE STAKED</u>	<u>DATE RECORDED</u>	<u>STAKER</u>
PRIME	14150	702(8)	JULY 29/79	AUGUST 21/79	GORDON GUTRATH

HISTORY OF THE CLAIM

The Prime Claim was staked in July 1979 by Gordon C. Gutrath as agent for Piper Petroleum Ltd. (name changed to Giant Piper Petroleum Inc.). The claim was staked to cover part of a property known as the King George. The King George was explored by Primer Group Minerals between 1967 and 1971 with the western portion of the claim explored by Belcarra Explorations Ltd. and Riocanex in 1972 and 1973. In 1978 a group of local prospectors (Edward Mullin, Gerald Burr and William Stevens) found copper showing south of the Prime claim and located the MS and HG claims. In August 1979 they optioned the adjoining Prime claim from Piper Petroleum and optioned the combined property to Newmont Exploration of Canada Ltd. Newmont worked the property between 1979 and 1981. Reports by John Nebocat and Dave Visagie outline geological, geophysical, geochemical, trenching and diamond drilling programs conducted on the property. A total of 12 holes totalling 2,550 meters were drilled by Newmont on a copper-gold zone that straddles the Prime-HG claim boundaries. Newmont reported a copper zone 200 meters long by 10 - 30 meters wide with an average copper content of 0.3 - 0.4%. The highest gold value obtained from the drilling was 3 meters of 0.2 ounces per ton. The potential for small tonnage high grade deposits was fully tested by Newmont.

WORK PROGRAM

The 1984 work program was conducted by the writer with the assistance of Gary Medford and Les Demczuk on May 9-10, 1984 and Gerry Hayne from September 27 to September 30, 1984. Mobilization for the program was from Vancouver, British Columbia. A total of 12 line kilometers of VLF-EM and magnetics was completed with chained and flagged stations at 25 meter intervals. Mapping at a scale of 1:2,500 was conducted along grid lines. Figure 2 and Map 1 show the area of the work program.

REGIONAL GEOLOGY

The Prime Claim is situated in the Intermontane Tectonic Belt of the southern Canadian Cordillera. In southern British Columbia the upper Triassic Nicola Group dominates the belt. The Nicola Group consists mainly of alkalic and calc-alkalic volcanic and volcanoclastic rocks that have been divided by Preto (1979) into three north-trending structural belts, bounded by major faults. The Summers Creek fault zone running along the western boundary of the Prime Claim separates rocks of Preto's Central Belt from rocks of the Eastern Belt which underlie the property. Eastern Belt rocks along Summers Creek include both alkalic and calc-alkalic suites derived from comagmatic intrusions and are dominated by extrusive tuffs, lahar deposits, some basaltic flows, and high-level syenitic stocks (Preto, 1979; Christopher, 1973).

The Alleyne-Summers Creek fault system, a major north-south rift system passes along the western boundary of the claim and dominates the tectonic fabric of the property. Local faults generally parallel the northerly trend but N20°W and N40-45°E linears are probably also important fault directions.

Nicola rocks are generally only weakly metamorphosed with maximum regional grade reaching greenschist facies. Locally comagmatic intrusions have produced metasomatic and metamorphic effects with deposits like Ingerbelle, Copper Mountain, Afton, Axe and Craigmont resulting.

PROPERTY GEOLOGY

Geological mapping of the survey area was conducted along grid lines at a scale of 1:2,500 with the result of the survey presented on Map 1. Three units were mapped with one intrusive and two volcanic units. Unit 1 is a monzonitic intrusive unit which is probably comagmatic with the surrounding Nicola Group rocks. The two volcanic units are part of the Nicola Group. About 15% outcrop occurs east of 5+00E but outcrop in the western part of the grid is mainly in trenches and creek valleys.

Unit 1 occurs along a fault controlled creek at the southern part of the grid area and in the main showing (trenched area). In the trenched area blocks of monzonitic rock appear to have been faulted against fractured volcanic rocks but the possibility exists that the monzonitic bodies are late dykes.

Unit 2 occurs in the western part of the grid area and is generally altered because of contact effects and faulting. The unit is a feldspathic andesite which contains hornblende.

Unit 3 occurs in the eastern part of the grid area and represents a epidote-magnetite bearing augite andesite with breccia units containing fragments of fine grained dioritic rocks. The contact between the two volcanic units is defined by a sharp increase in magnetic readings and a strong and persistent zone of anomalous VLF-EM. Offset of the contact appears to occur along a NW fault.

GEOPHYSICAL SURVEY

a) Methodology

Magnetometer and VLF-EM readings were collected along flagged and chained lines at 25 meter intervals with readings also collected along road trenches as shown on Figure 3. Geophysical survey stations are shown on Map 1 and Figure 3 with a total of about 480 stations or 12 kilometers were surveyed. A Scintrex model MP2 magnetometer was employed with the detector in the pack mount. A base station was established at the corner post 2E (HG 2) and 2S,2E (HG 1) and sub-base stations were established at 25 meter intervals along the baseline. A base station was read at the start and completion of traverses. Values were corrected for diurnal variation by assuming linear variation with instrument readings less 56,000 gammas plotted on Map 1.

A Geonics Ltd. EM16 was used for the VLF-EM work. Readings were taken at two frequencies with Seattle, Hawaii, and Cutler (Maine) used for the survey. VLF-EM plots are presented in Appendix A with anomalies shown on Map 1.

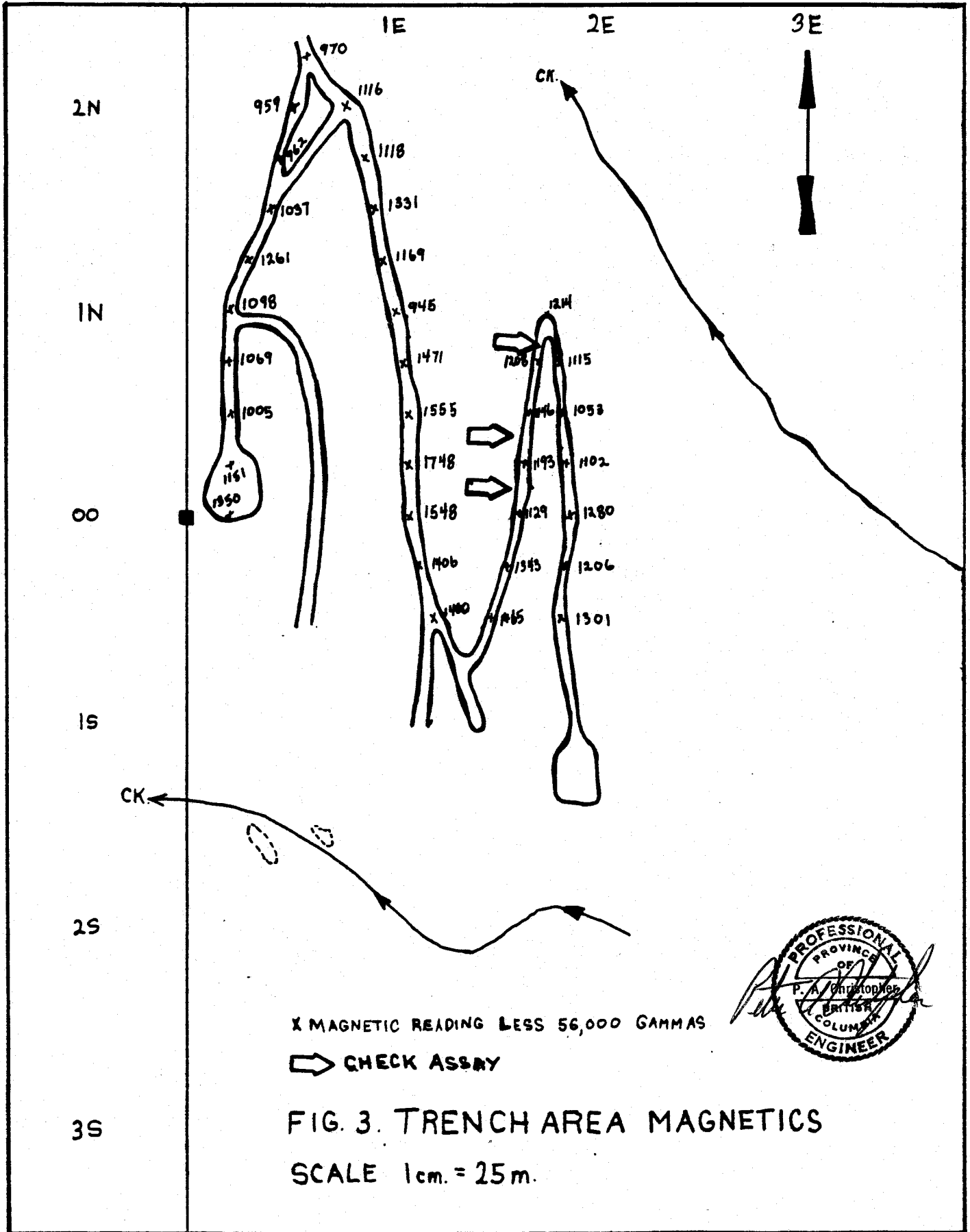
b) Results

Magnetic readings varied from 56,547 gammas at 1+50N; 5+00E to 58,433 gammas at 1+50S; 7+25E with a magnetic relief of 1,886 gammas detected during the survey. The highest values are situated east of 6+00E in an area mapped as magnetite-epidote bearing andesite and breccia. Low values are concentrated along a fault controlled creek on line 1+50S and are west of 6+00E.

Several VLF-EM crossovers were detected with excellent correlation of anomalies from line 1S to 2N between 6E and 7E. On line 1+50S the anomaly appears to be offset by a fault controlled creek valley. Definition of the extent of the offset will require additional survey lines to the south of the present grid. Cross overs obtained on the two lines run west from the baseline were not shown because of instrument problem during this part of the survey.

DISCUSSION

The magnetic, VLF-EM and geological surveys conducted during the 1984 field program are in agreement and all support a fundamental geological change between 5E and 7E on the grid area. An electromagnetic conductive zone and strong break in the magnetic intensity appear to define a lithologic change. The sharp nature of the conductive trend and magnetic change suggest a possible faulted contact. A later offset of the contact appears to have occurred along a fault controlled creek at 5+25E on line 1+50S but additional survey lines are needed to confirm the offset. Geochemical samples should be collected along the anomalous VLF-EM trend to check for associated copper and precious metal mineralization. Geophysical traverses run along the trenches and grid line do not have strong anomalous responses at the main showing area.



CONCLUSIONS AND RECOMMENDATIONS

A VLF-EM and magnetic survey conducted over the main showing are on the Prime Claim has demonstrated the usefulness of the methods in defining geological and structural trends. The surveys indicate that a fundamental geological change occurs between 5E and 7E on the grid with both strong VLF-EM conductor and strong magnetic relief. The zone is considered to be a contact between feldspathic andesite and magnetite-epidote bearing andesite and breccia. The continuity shown in the VLF-EM anomaly and the sharp break in magnetic patterns suggest the possibility of a faulted contact. Offset of the contact zone along a fault controlled creek is suggest by magnetic and VLF-EM readings from line 1+50S. Further survey lines to the south should define the offset. The writer recommends extending the geophysical survey four lines to the south (2 days) and collecting geochemical samples along the anomalous trend to check for copper and precious mental mineralization. The cost of the additional survey work is estimated to be \$7,000. The cost of the surveys described in this report are outline on the following page.

BIBLIOGRAPHY

- Christopher, P.A., 1973. Preliminary geological map of the Aspen Grove Area, British Columbia, B.C. Ministry of Energy, Mines & Petroleum Resources, Preliminary Map No. 10.
- Limon, H., 1980. IP survey reoprt Prime, HG 1, HG2, HG 6 Fr claims, Similkameen Mining Division, Assessment Report for Newmont Exploration of Canada Ltd., October 15, 1980.
- Nebocat, J., 1980. Report on the Missezula Project 1979,1980. Assessment Report for Newmont Exploration of Canada Ltd. dated Dec. 19, 1980.
- Preto, V. A., 1979. Geology of the Nicola Group between Merritt and Princeton. B.C. Ministry of Energy, Mines & Petroleum Resources, Bulletin No. 69, P. 1 - 90.
- Visagie, D., 1981. Summary report on the Missezula Project 1979-1981, Similkameen Mining Division. Assessment Report for Newmont Exploration of Canada Ltd. dated Nov. 18, 1981.

COST STATEMENT

PERSONNEL

Gary Medford Ph.D. (Project Geologist)	May 9-10/84 2 days @\$300ea.	\$ 600
Gerry Hayne B.Sc. (Geological Assistant)	SEPT. 27-30/84 4 days @ \$150ea.	600
Les Demczuk B.Sc. (Geological Assistant)	May 9-10/84 2 days @ \$150ea.	300
Peter Christopher (Consultant & Project Management)	MAY 9-10/84; SEPT. 27-30/84 6 days @\$350ea.	2,100

MOBILIZATION/DEMOB

ROOM AND BOARD

14 man days @ \$50e.

500

700

TRANSPORTATION

4 X 4 - 6 days @ \$100ea.

600

SHIPPING

50

GEOCHEMISTRY

@ Cost

75

EQUIPMENT RENTALS (MAG., E.M., CHAIN SAW ETC.)

6 DAYS @ \$50EA.

300

EXPENDABLES

75

REPORT WRITING AND COMPILATION

2,000

DRAFTING, TRYING, COPIES, OFFICE SUPPORT

600

TOTAL

\$ 8,500

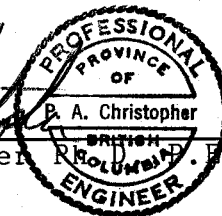
MANAGEMENT @ 15%

1,275

TOTAL COSTS

\$ 9,775

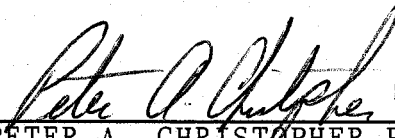
Peter A. Christopher
Peter A. Christopher
December 14, 1984

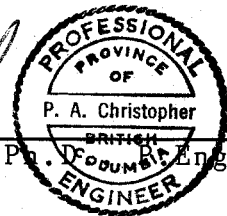


CERTIFICATE

I, Peter A. Christopher, with business address at 3707 West 34th Avenue, Vancouver, British Columbia, do hereby certify that:

- 1) I am a consulting geological engineer registered with the Association of Professional Engineers of British Columbia since 1976.
- 2) I am a Fellow of the Geological Association of Canada and a member of the Society of Economic Geologists.
- 3) I hold a B.Sc. (1966) from the State University of New York at Fredonia, a M.A. (1968) from Dartmouth College and a Ph.D. (1973) from the University of British Columbia.
- 4) I have been practising my profession as a Geologist for over 15 years.
- 5) I hold an interest in the claims through agreement with Gerald Burr, Patricia Mullina and William Stephens.
- 6) I have based this report on a review of available geological data, and on a geochemical program conducted under my supervision on May 9 and 10, 1984 and on September 27 through 30, 1984.


PETER A. CHRISTOPHER P. Eng.
December 14, 1984



APPENDIX A

VLF-EM SECTIONS

LINE 1+50S 00 TO 9+00E
LINE 1+00S 00 TO 9+00E
LINE 0+50S 00 TO 9+00E
LINE 00 00 TO 9+00E
LINE 0+50N 00 TO 9+00E
LINE 1+00N 00 TO 9+00E
LINE 1+50N 00 TO 9+00E
LINE 2+00N 00 TO 9+00E
LINE BL 7+50N TO 8+00S
LINE 00 00 TO 10+00W
LINE 2+00S 00 TO 10+00W
ROAD-TRENCH VLF-EM DATA ONLY

300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG PROPERTY SEPT 29/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 1+50S 00 TO 900E
310 DATA -16,-15
320 DATA -15,-16
330 DATA -15,-15
340 DATA -18,-13
350 DATA -15,-12
360 DATA -15,-10
370 DATA -14,-10
380 DATA -15,-10
390 DATA -15,-8
400 DATA -16,-5
410 DATA -15,-8
420 DATA -11,-8
430 DATA -10,-10
440 DATA -12,-13
450 DATA -11,-13
460 DATA -13,-14
470 DATA -7,-8
480 DATA -8,-7
490 DATA -5,-5
500 DATA -7,-7
510 DATA -10,-8
520 DATA 2,0
530 DATA 1,0
540 DATA 1,1
550 DATA 1,0
560 DATA 1,1
570 DATA 0,0
580 DATA -2,-2
590 DATA -5,-4
600 DATA -8,-5
630 DATA -5,-5
640 DATA -5,-5
650 DATA -7,-5
660 DATA -9,-8
670 DATA -10,-9
680 DATA -10,-9
690 DATA -11,-8

PROPERTY NAME :PRIME-HG

FOR CLIENT:SELF

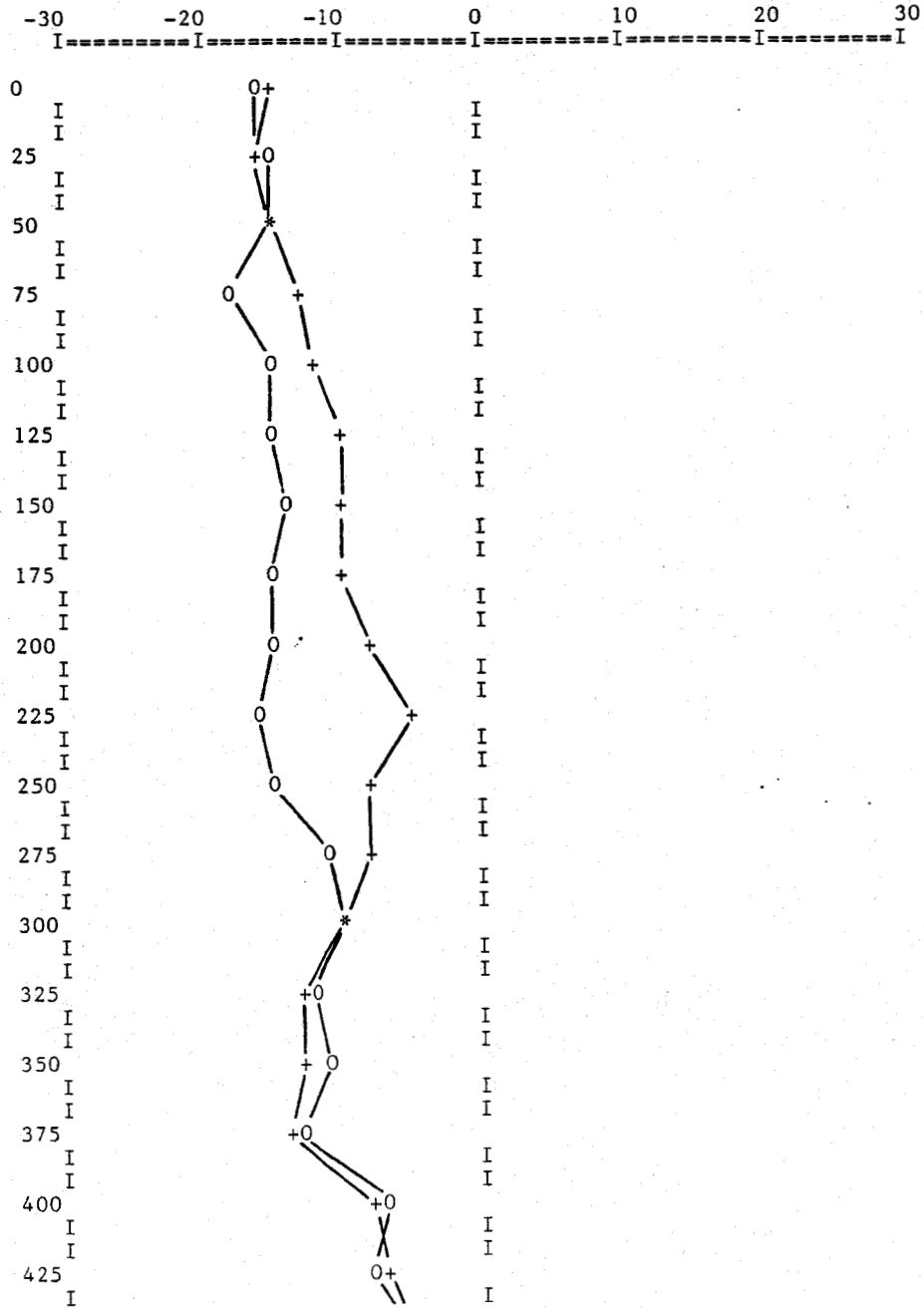
DATE :SEPT 29/84

STN 1 IS SEATTLE

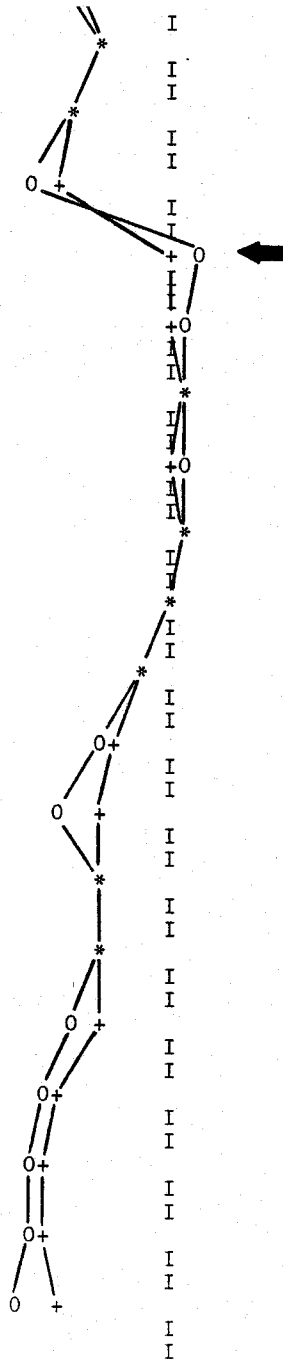
LINE NUMBER :LINE 1+50S 00 TO 900E

STN 2 IS HAWAII

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES



I
450 I
I
475 I
I
500 I
I
525 I
I
550 I
I
575 I
I
600 I
I
625 I
I
650 I
I
675 I
I
700 I
I
725 I
I
750 I
I
775 I
I
800 I
I
825 I
I
850 I
I
875 I
I
900 I
I



300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG PROPERTY SEPT 29/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 100S 00 TO 900E
310 DATA -15,-8
320 DATA -18,-8
330 DATA -17,-9
340 DATA -18,-8
350 DATA -17,-7
360 DATA -17,-7
370 DATA -15,-6
380 DATA -13,-7
390 DATA -13,-10
400 DATA -13,-11
410 DATA -10,-11
420 DATA -10,-12
430 DATA -11,-10
440 DATA -9,-9
450 DATA -8,-7
460 DATA -10,-9
470 DATA -10,-8
480 DATA -8,-7
490 DATA -3,-5
500 DATA -5,-4
510 DATA -9,-6
520 DATA -9,-7
530 DATA -5,-5
540 DATA -2,-4
550 DATA 0,-2
570 DATA -1,-3
580 DATA -2,-3
590 DATA -5,-5
600 DATA -4,-5
610 DATA 0,-2
620 DATA -1,-1
630 DATA -4,-2
640 DATA -5,-5
650 DATA -5,-4
660 DATA -9,-5
670 DATA -9,-5
680 DATA -10,-7

PROPERTY NAME :PRIME-HG

FOR CLIENT:SELF

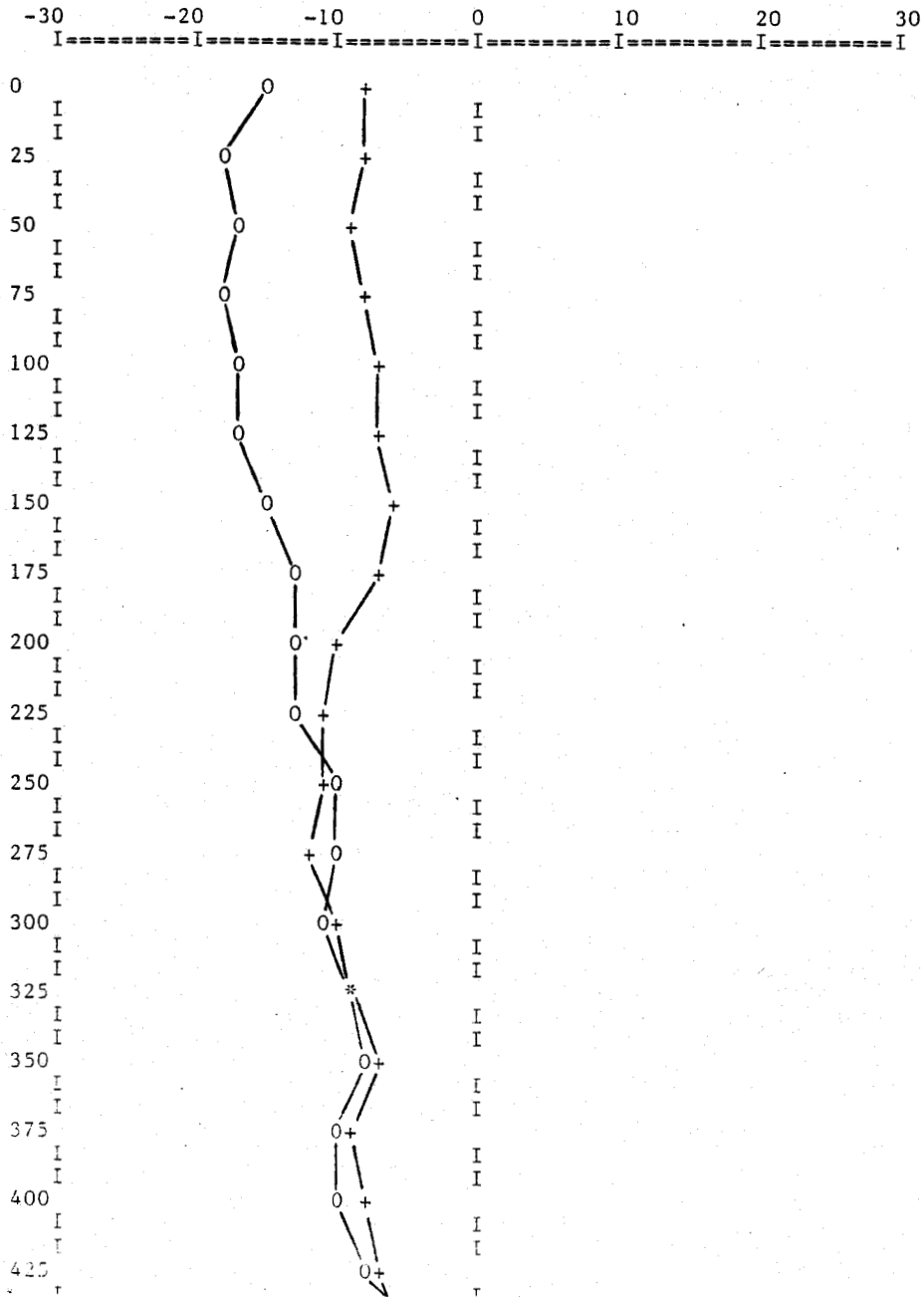
DATE :SEPT 29/84

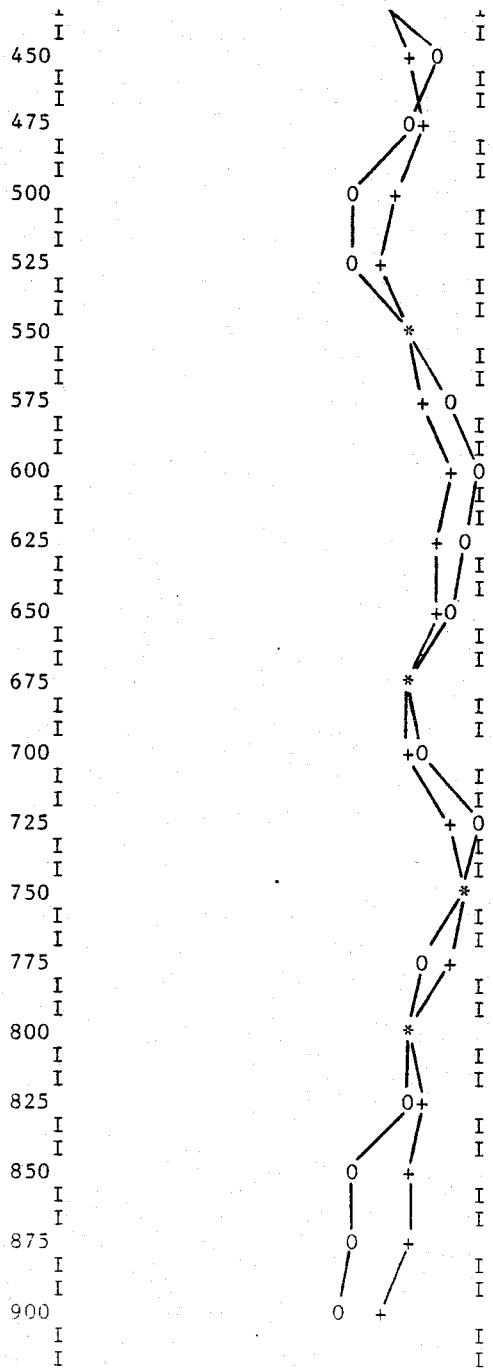
LINE NUMBER :LINE 100S 00 TO 900E

STN 1 IS SEATTLE

STN 2 IS HAWAII

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES





300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG PRPOERTY SEPT 28/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 0+50S 00 TO 900E
310 DATA -14,-8
320 DATA -18,-11
330 DATA -21,-14
340 DATA -27,-19
350 DATA -30,-23
360 DATA -23,-18
370 DATA -18,-16
380 DATA -10,-12
390 DATA -7,-8
400 DATA -9,-8
410 DATA -10,-10
420 DATA -13,-11
430 DATA -15,-14
440 DATA -21,-17
450 DATA -15,-12
460 DATA -7,-8
470 DATA -4,-7
480 DATA -5,-6
490 DATA -8,-7
500 DATA -9,-7
510 DATA -7,-5
520 DATA -13,-9
530 DATA -9,-7
540 DATA -5,-5
550 DATA 0,-1
560 DATA 0,-2
570 DATA -4,-5
580 DATA -7,-6
590 DATA -8,-8
600 DATA -4,-4
610 DATA -7,-7
620 DATA -7,-8
630 DATA -10,-10
640 DATA -11,-10
650 DATA -10,-11
660 DATA -8,-7
670 DATA -8,-7

PROPERTY NAME :PRIME-HG

FOR CLIENT:SELF

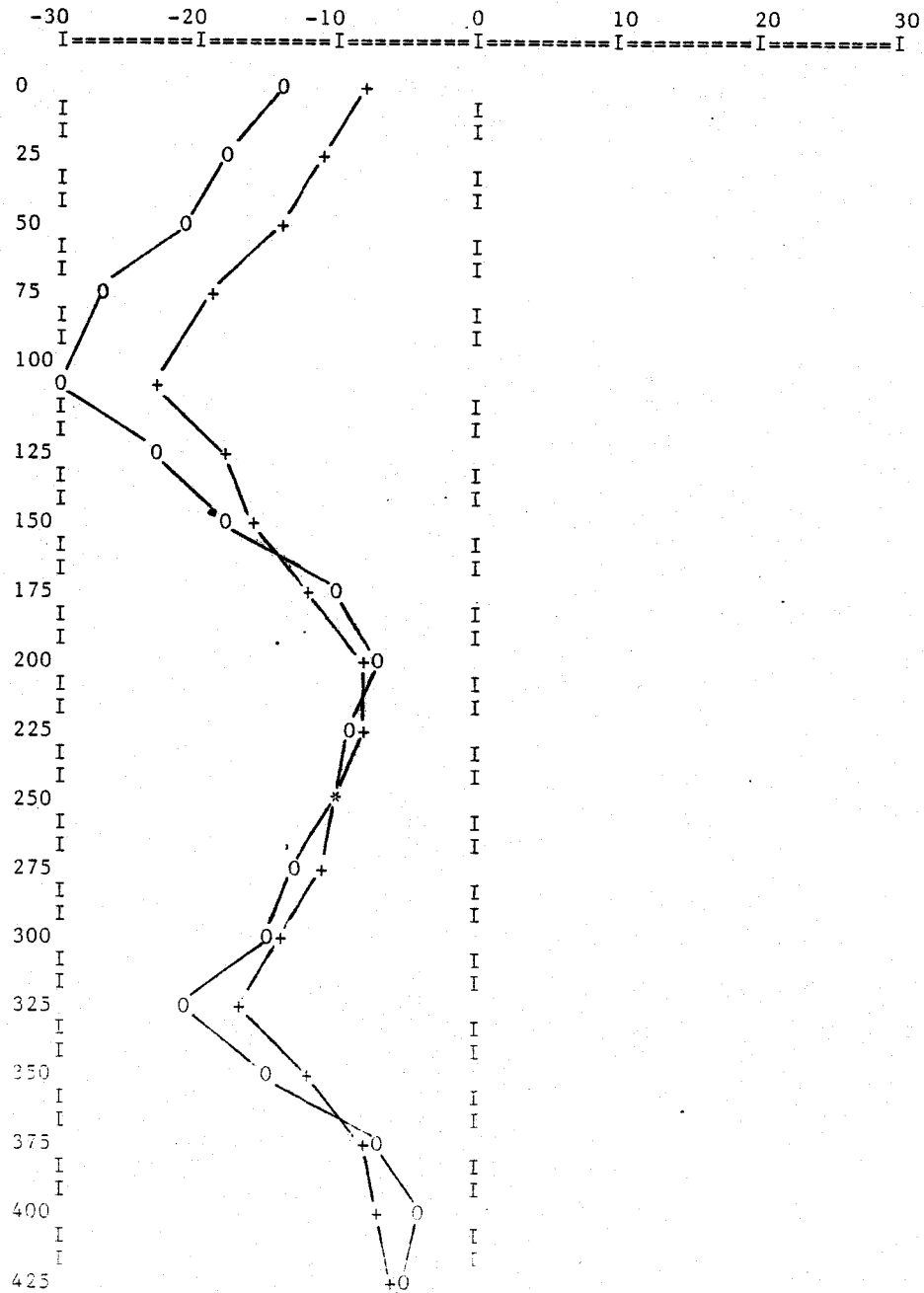
DATE :SEPT 28/84

LINE NUMBER :0+50S 00 TO 900E

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

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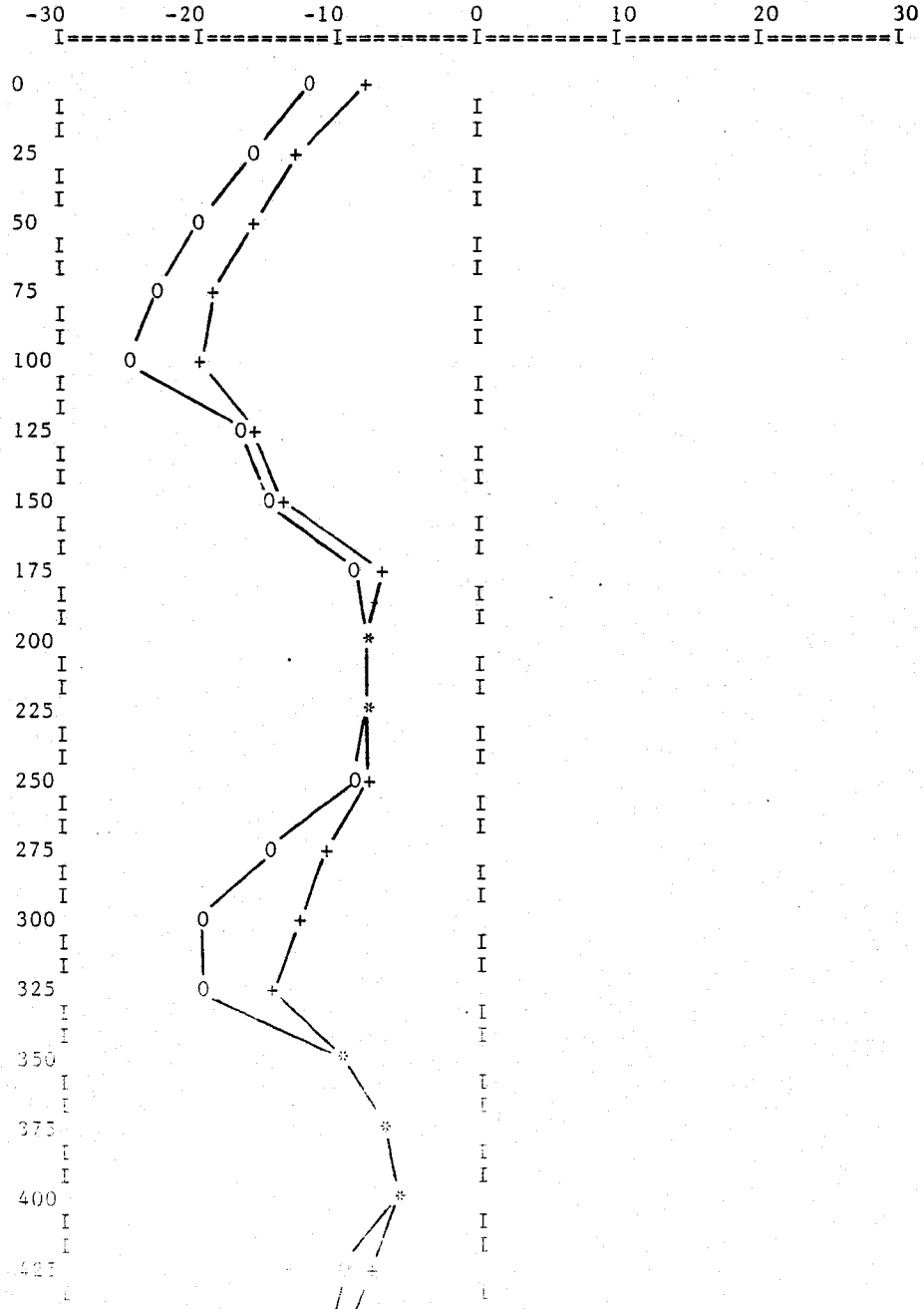
STN 2 IS HAWAII



300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG SEPT 27/84 LINE 00 00 TO 900E
302 REM STA 1 SEATTLE STA 2 HAWAII AT 25M.
310 DATA -12,-8
320 DATA -16,-13
330 DATA -20,-16
340 DATA -23,-19
350 DATA -25,-20
360 DATA -17,-16
370 DATA -15,-14
380 DATA -9,-7
390 DATA -8,-8
400 DATA -8,-8
410 DATA -9,-8
420 DATA -15,-11
430 DATA -20,-13
440 DATA -20,-15
450 DATA -10,-10
460 DATA -7,-7
470 DATA -6,-6
480 DATA -10,-8
490 DATA -11,-10
500 DATA -10,-7
510 DATA -13,-8
520 DATA -15,-12
530 DATA -6,-6
540 DATA -5,-5
550 DATA 1,-2
560 DATA 0,-2
570 DATA -7,-3
580 DATA -7,-7
590 DATA -5,-8
600 DATA -7,-10
610 DATA -11,-10
620 DATA -9,-11
630 DATA -13,-12
640 DATA -13,-10
650 DATA -14,-10
660 DATA -10,-8

PROPERTY NAME :PRIME-HG
 FOR CLIENT:SELF
 DATE :SEPT 27/84
 LINE NUMBER :00 00 TO 900E
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE
 STN 2 IS HAWAII

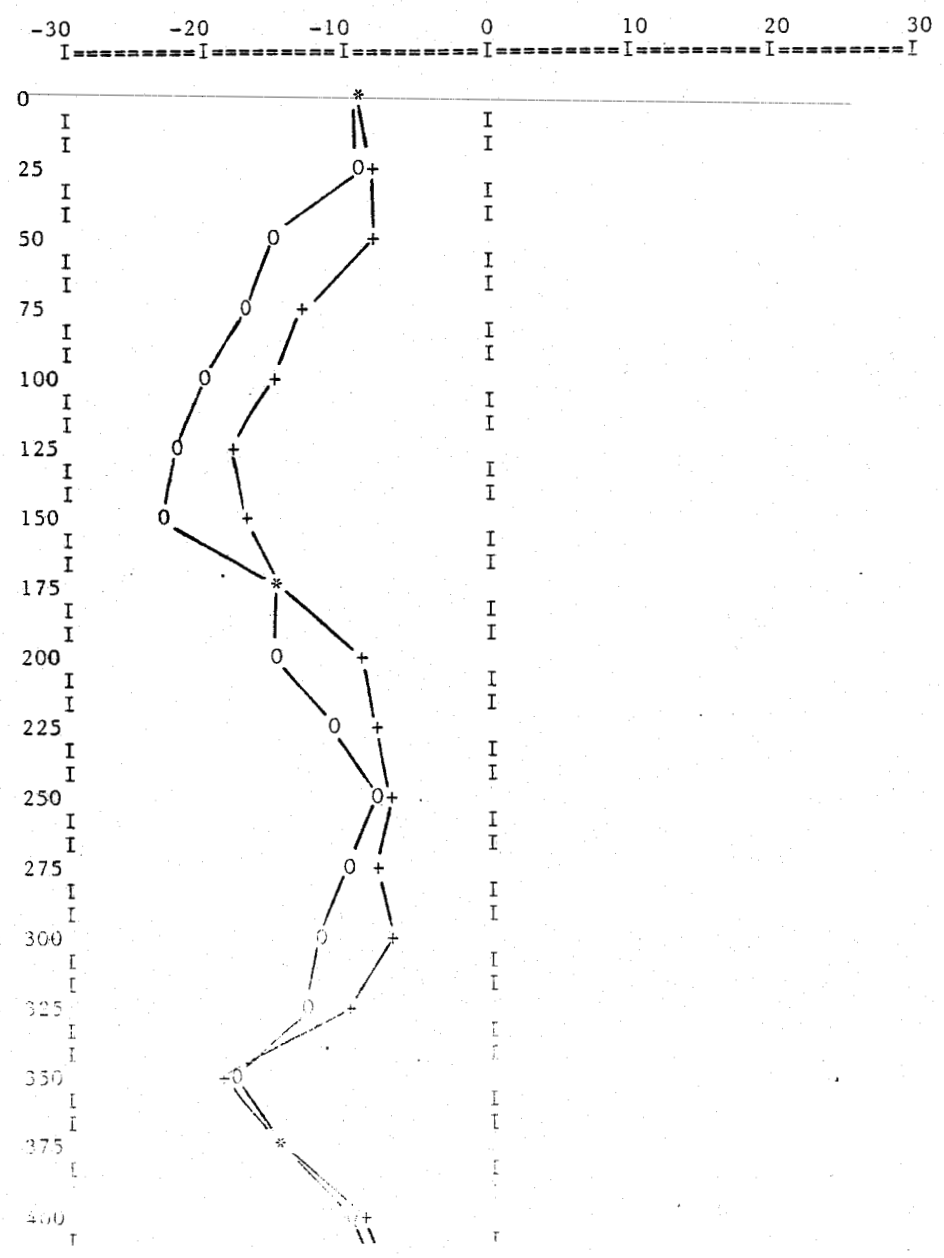


300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG PROPERTY SEPT 28/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 0+50N 00 TO 900E
310 DATA -9,-9
320 DATA -9,-8
330 DATA -15,-8
340 DATA -17,-13
350 DATA -20,-15
360 DATA -22,-18
370 DATA -23,-17
380 DATA -15,-15
390 DATA -15,-9
400 DATA -11,-8
410 DATA -8,-7
420 DATA -10,-8
430 DATA -12,-7
440 DATA -13,-10
450 DATA -18,-19
460 DATA -15,-15
470 DATA -10,-9
480 DATA -8,-7
490 DATA -12,-10
500 DATA -11,-10
510 DATA -12,-10
520 DATA -13,-13
530 DATA -14,-13
540 DATA -7,-9
550 DATA -3,-2
560 DATA 2,1
570 DATA 4,0
580 DATA 1,-2
590 DATA -2,-5
600 DATA -4,-7
610 DATA -7,-7
620 DATA -6,-7
630 DATA -9,-8
640 DATA -10,-9
650 DATA -12,-10
660 DATA -13,-10
670 DATA -14,-11

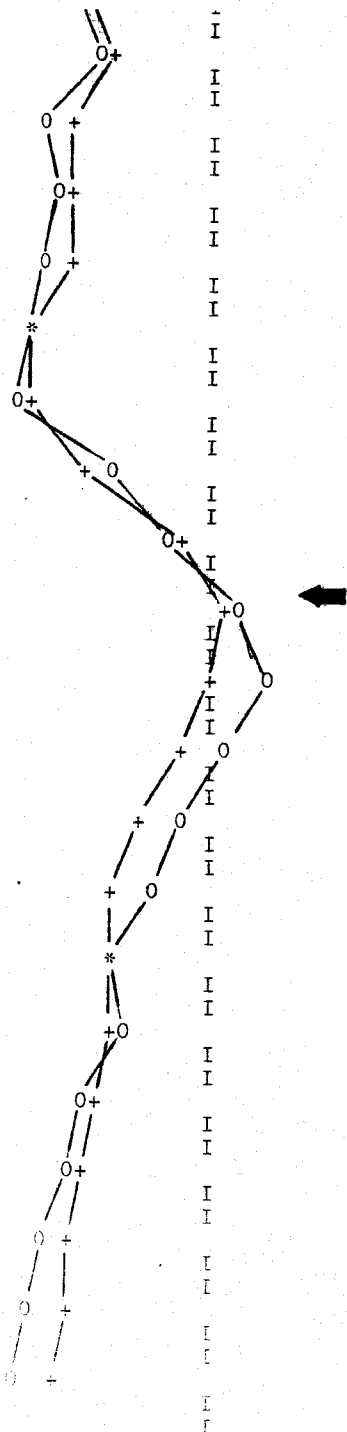
PROPERTY NAME :PRIME-HG
 FOR CLIENT:SELF
 DATE :SEPT 28/84
 LINE NUMBER :0+50N 00 TO 900E

STN 1 IS SEATTLE
 STN 2 IS HAWAII

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES



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300 REM ENTER DATA: DATA Y1,Y2
301 REM P-HG SEPT 27-28/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 100N 00 TO 900E
310 DATA -16,-18
320 DATA -17,-16
330 DATA -18,-15
340 DATA -21,-16
350 DATA -21,-18
360 DATA -22,-18
370 DATA -20,-17
380 DATA -18,-15
390 DATA -14,-10
400 DATA -7,-8
410 DATA -7,-5
420 DATA -9,-3
430 DATA -10,-5
440 DATA -10,-7
450 DATA -10,-5
460 DATA -10,-8
470 DATA -10,-10
480 DATA -8,-10
490 DATA -11,-11
500 DATA -15,-12
510 DATA -16,-13
520 DATA -20,-15
530 DATA -17,-14
540 DATA -15,-13
550 DATA -8,-9
560 DATA -5,-6
570 DATA 5,1
575 DATA 5,1
580 DATA 1,0
590 DATA 1,0
600 DATA -4,-4
610 DATA -8,-9
620 DATA -10,-10
630 DATA -10,-10
640 DATA -13,-14
650 DATA -13,-13
660 DATA -14,-13

PROPERTY NAME :PRIME-HG

FOR CLIENT:SELF

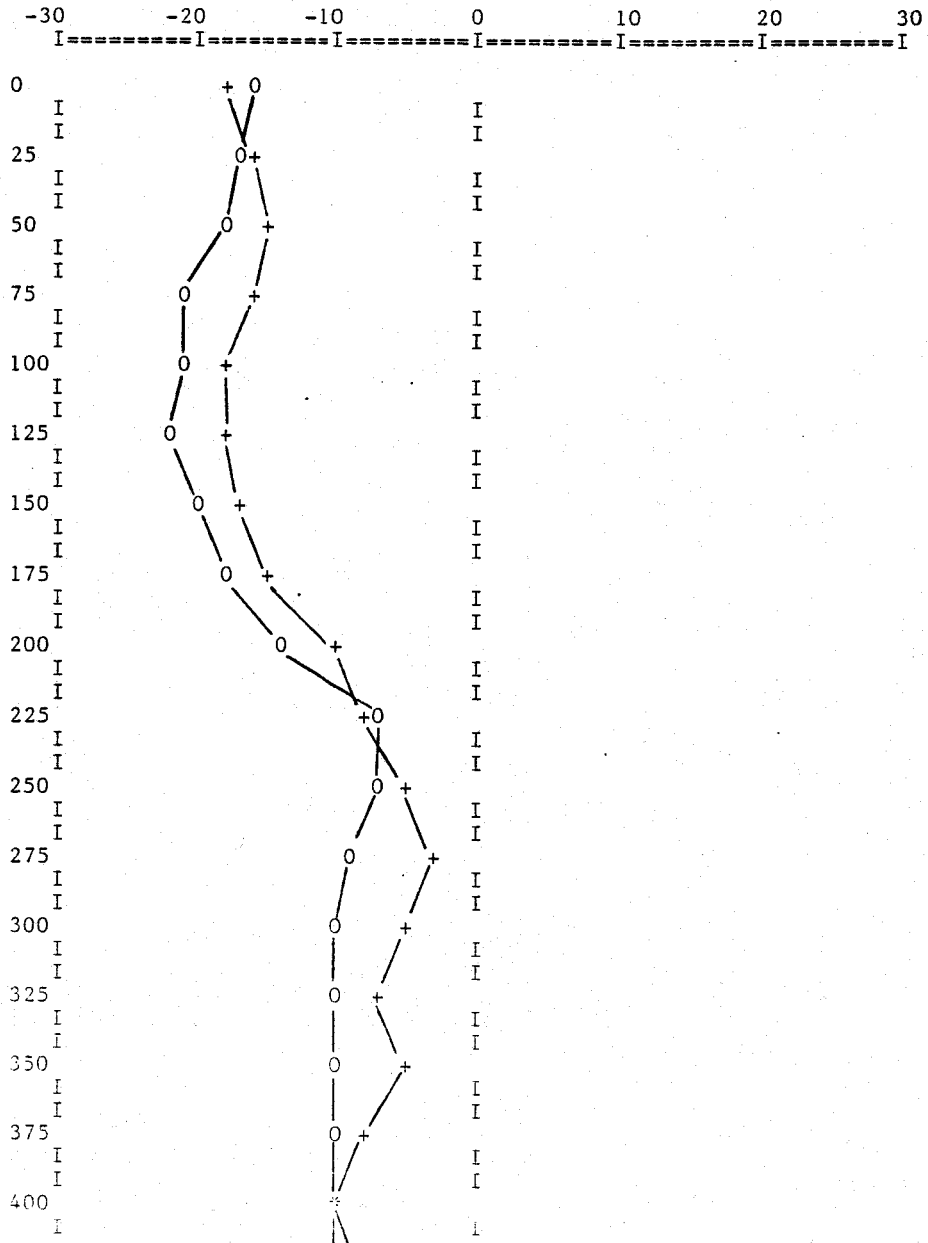
DATE :SEPT 28-27/84

LINE NUMBER :1N 00 TO 900E

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE

STN 2 IS HAWAII

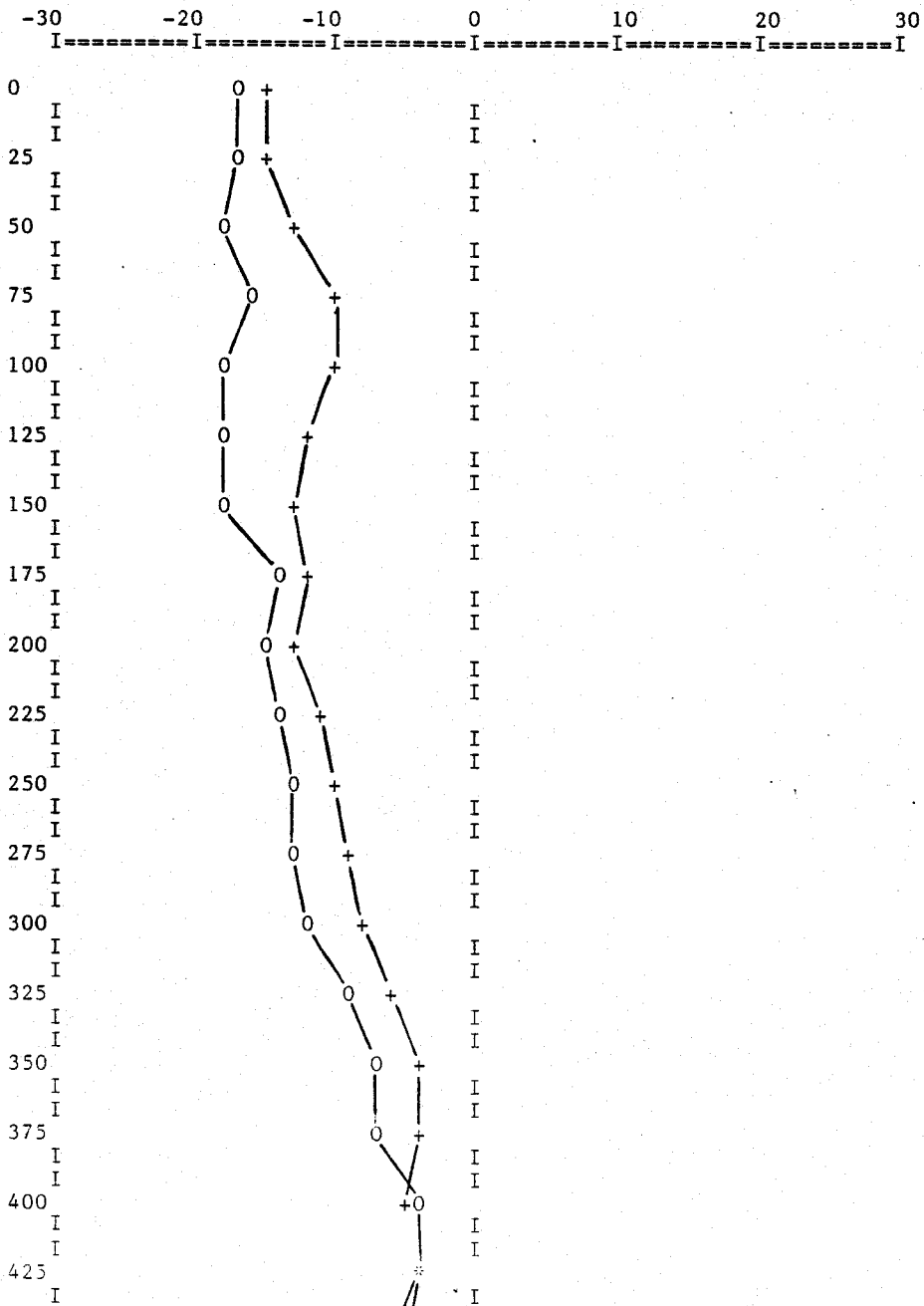


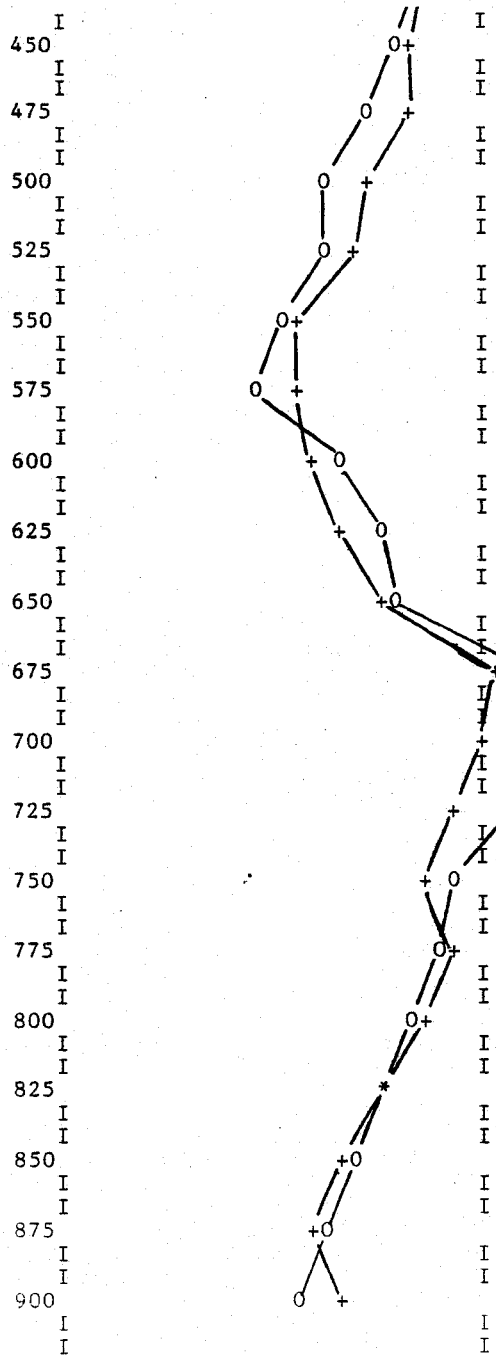
300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG SEPT 28/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 1+50N 00 TO 900E
310 DATA -17,-15
320 DATA -17,-15
330 DATA -18,-13
340 DATA -16,-10
350 DATA -18,-10
360 DATA -18,-12
370 DATA -18,-13
380 DATA -14,-12
390 DATA -15,-13
400 DATA -14,-11
410 DATA -13,-10
420 DATA -13,-9
430 DATA -12,-8
440 DATA -9,-6
450 DATA -7,-4
455 DATA -7,-4
460 DATA -4,-5
470 DATA -4,-4
480 DATA -6,-5
490 DATA -8,-5
500 DATA -11,-8
510 DATA -11,-9
520 DATA -14,-13
530 DATA -16,-13
540 DATA -10,-12
550 DATA -7,-10
560 DATA -6,-7
570 DATA 3,1
580 DATA 4,0
590 DATA 2,-2
600 DATA -2,-4
610 DATA -3,-2
620 DATA -5,-4
630 DATA -7,-7
640 DATA -9,-10
650 DATA -11,-12
660 DATA -13,-10

PROPERTY NAME :PRIME-HG
 FOR CLIENT:SELF
 DATE :SEPT 28/84
 LINE NUMBER :LINE 1+50N 00 TO 900E
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE

STN 2 IS HAWAII





300 REM ENTER DATA: DATA Y1,Y2
301 REM P-HG PROPERTY SEPT 28/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM LINE 2N 00 TO 900E
310 DATA -16,-10
320 DATA -16,-10
330 DATA -16,-10
340 DATA -17,-11
350 DATA -16,-10
360 DATA -17,-13
370 DATA -17,-14
380 DATA -16,-11
390 DATA -18,-13
400 DATA -16,-12
410 DATA -16,-11
420 DATA -16,-10
430 DATA -16,-10
440 DATA -13,-9
450 DATA -8,-7
460 DATA -8,-6
470 DATA -6,-6
480 DATA -7,-9
490 DATA -10,-9
500 DATA -8,-7
510 DATA -10,-10
520 DATA -11,-11
530 DATA -12,-11
540 DATA -15,-17
550 DATA -15,-15
560 DATA -7,-8
570 DATA -6,-9
580 DATA -7,-8
590 DATA 0,-3
600 DATA 0,-2
610 DATA 1,-1
620 DATA 0,-3
630 DATA -4,-4
640 DATA -5,-5
650 DATA -7,-7
660 DATA -8,-10
670 DATA -9,-11

PROPERTY NAME :PRIME-HG

FOR CLIENT:SELF

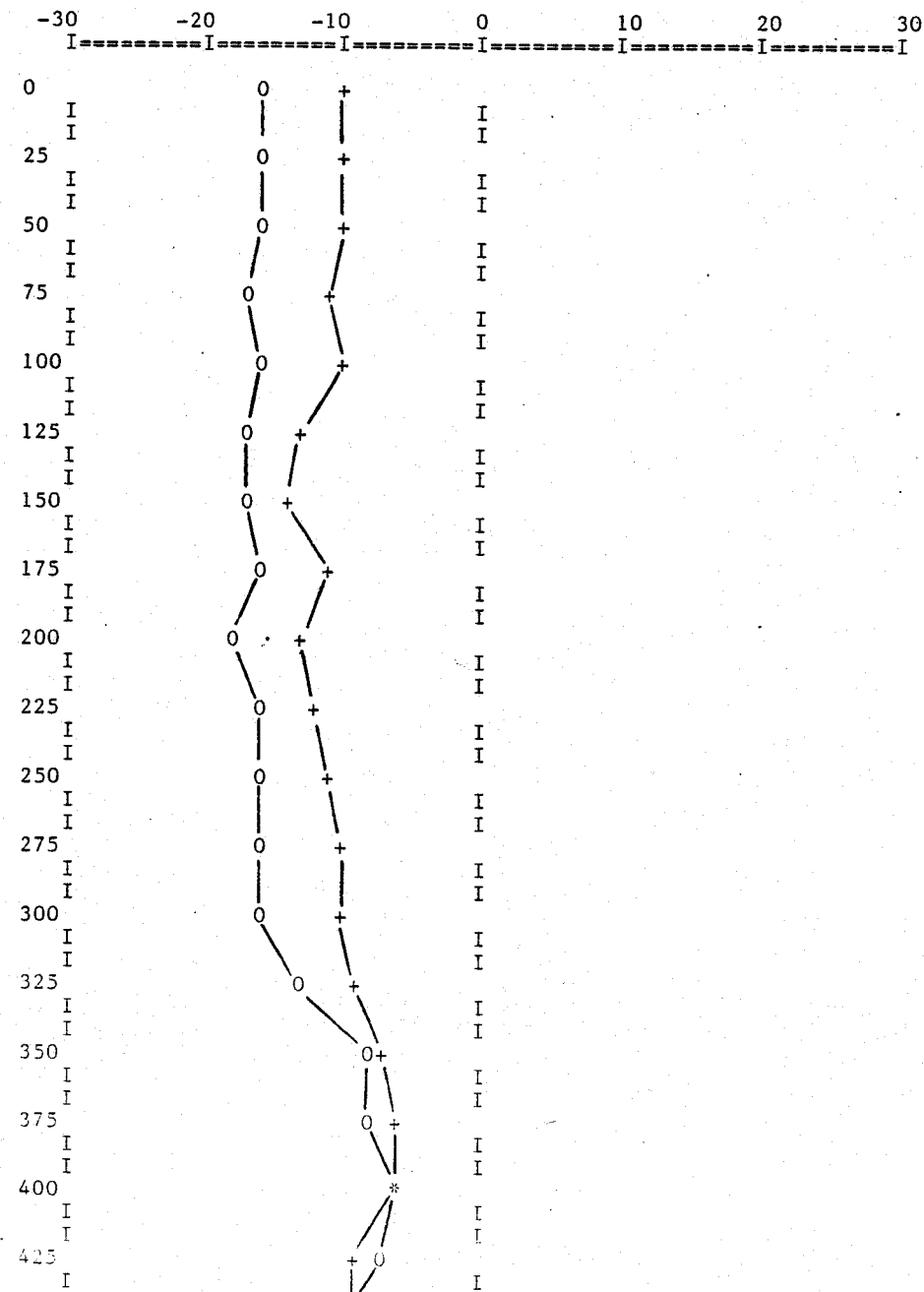
DATE :SEPT 28/84

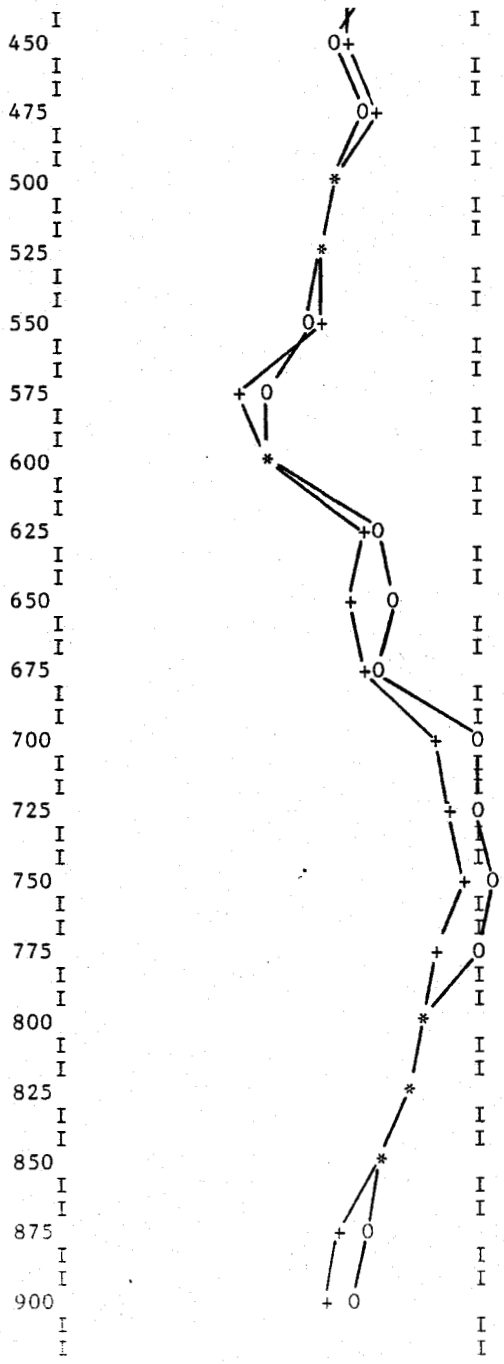
LINE NUMBER :2N 00 TO 900E

STN 1 IS SEATTLE

STN 2 IS HAWAII

RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES





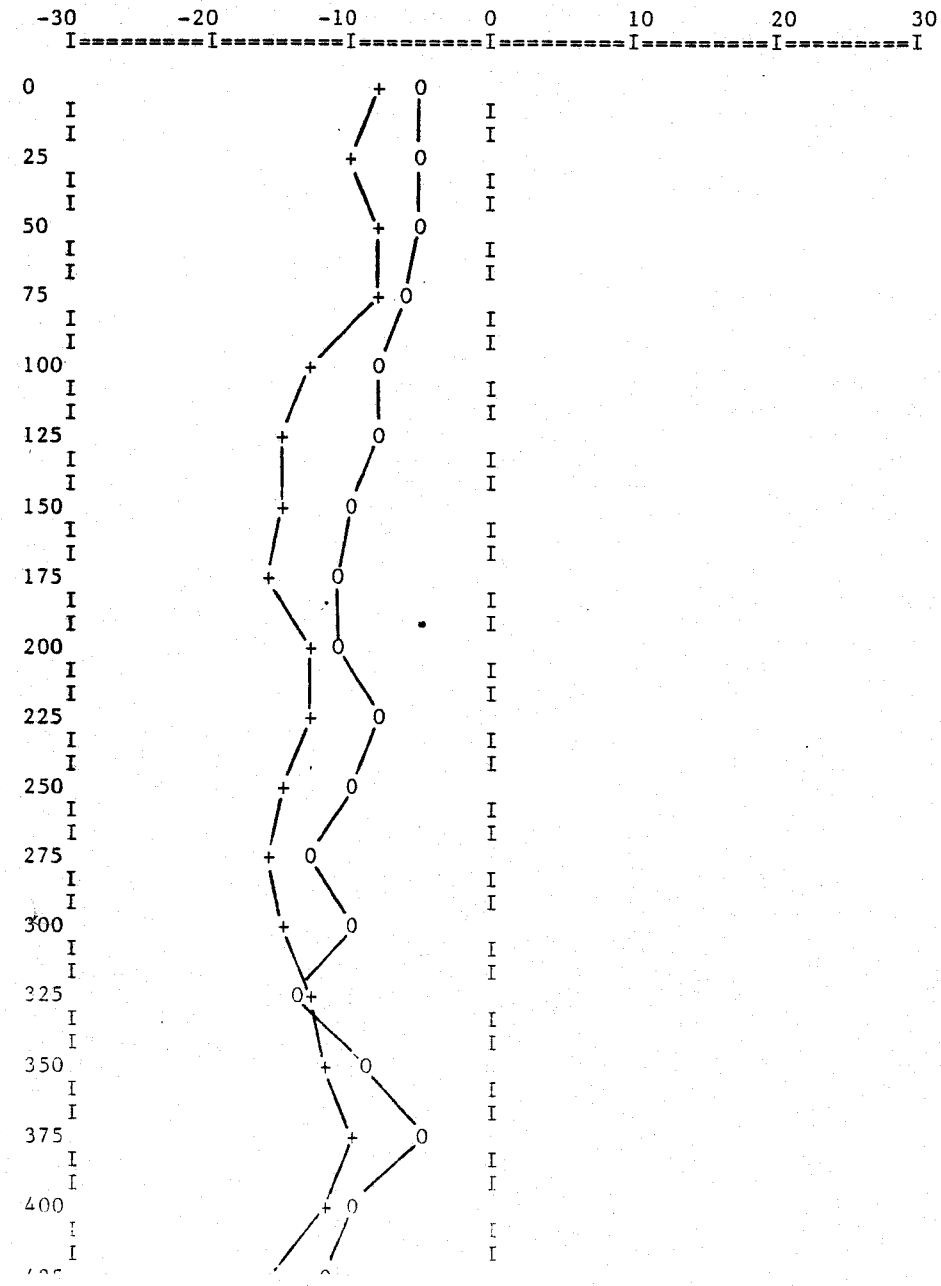
300 REM ENTER DATA: DATA Y1,Y2
301 REM HG PROPERTY BURR OPTION
302 REM STA 1 CUTLER STA 2 HAWAII
303 REM BASELINEN TO 800S
310 DATA -5,-8
320 DATA -5,-10
330 DATA -5,-8
340 DATA -6,-8
350 DATA -8,-13
360 DATA -8,-15
370 DATA -10,-15
380 DATA -11,-16
390 DATA -11,-13
400 DATA -8,-13
410 DATA -10,-15
420 DATA -13,-16
430 DATA -10,-15
440 DATA -14,-13
450 DATA -9,-12
460 DATA -5,-10
470 DATA -10,-12
480 DATA -12,-16
490 DATA -17,-20
500 DATA -9,-15
510 DATA -8,-11
520 DATA -5,-7
530 DATA -8,-9
540 DATA -9,-14
550 DATA -13,-15
560 DATA -15,-18
570 DATA -20,-21
580 DATA -12,-13
590 DATA -7,-8
600 DATA -3,-5
610 DATA -2,-5
620 DATA -6,-7
630 DATA -5,-8
640 DATA -4,-6
650 DATA -3,-7
660 DATA -5,-10
670 DATA -10,-12
680 DATA -15,-13
690 DATA -11,-13
700 DATA -13,-14
710 DATA -15,-16
720 DATA -17,-18
730 DATA -15,-17
740 DATA -15,-13
750 DATA -11,-13
760 DATA -12,-11
770 DATA -14,-14
780 DATA -13,-13
790 DATA -17,-17
800 DATA -18,-17
810 DATA -22,-20
820 DATA -21,-22
830 DATA -16,-18
840 DATA -10,-10
850 DATA -7,-9
860 DATA -6,-7
870 DATA -4,-5
880 DATA -5,-7

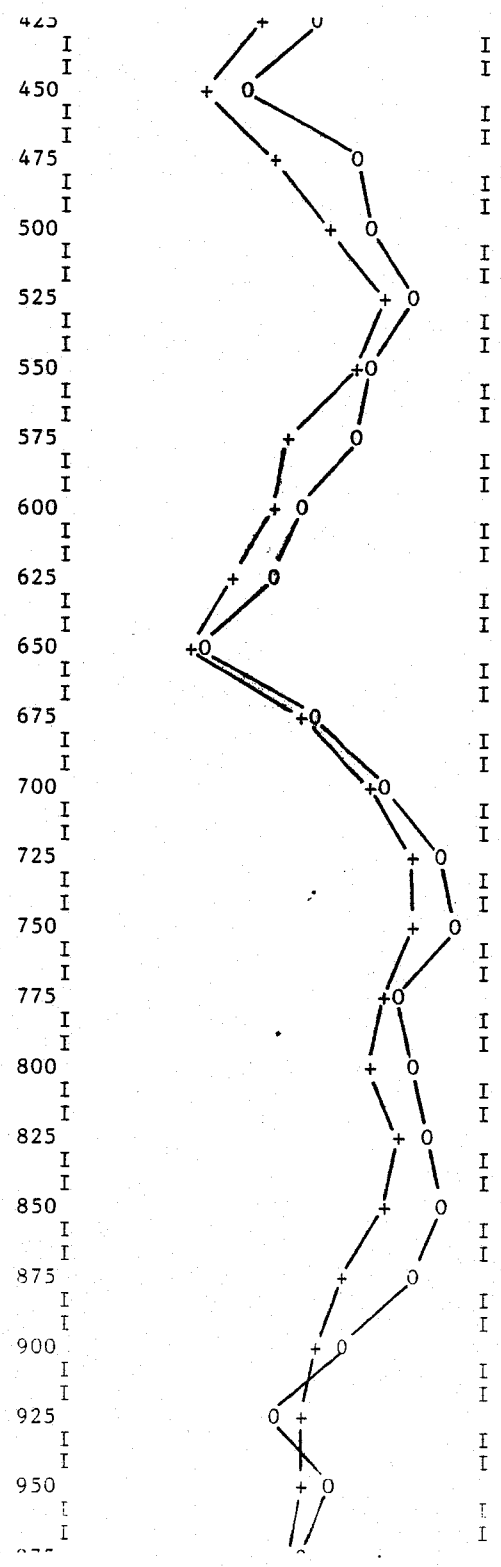
890 DATA -5,-7
 900 DATA -7,-11
 910 DATA -2,-5
 920 DATA -6,-8
 930 DATA -7,-13

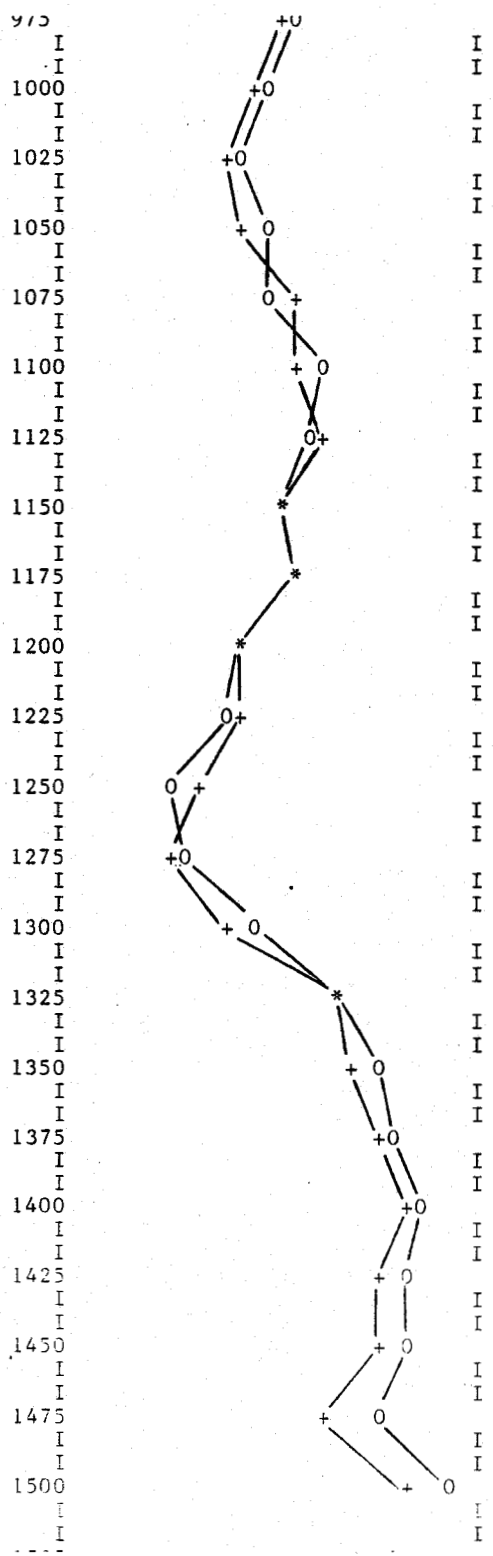
PROPERTY NAME :HG
 FOR CLIENT:SELF
 DATE :SEPT 27/84

STN 1 IS CUTLER
 STN 2 IS HAWAII

LINE NUMBER :BL 750N TO 800S
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES





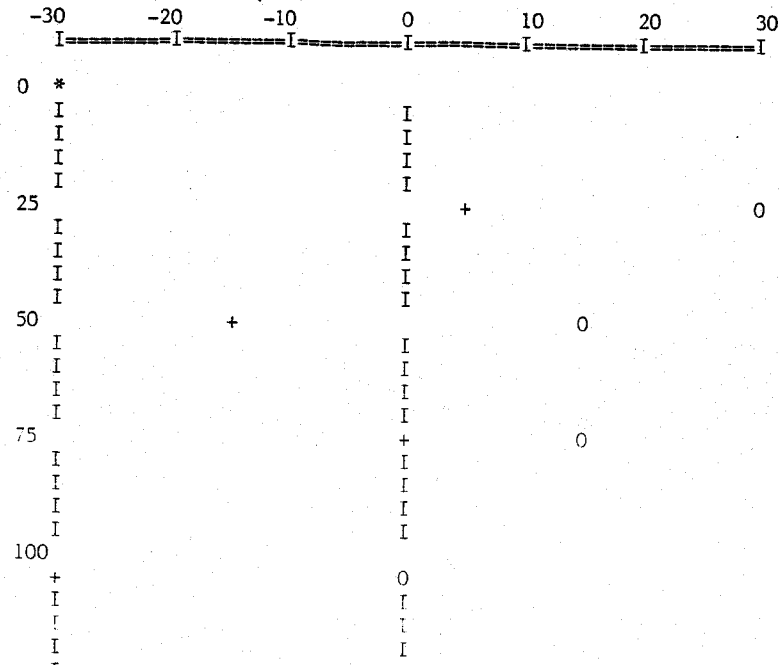


300 REM ENTER DATA: DATA Y1,Y2
 301 REM PROPERTY IS HG PRIME
 302 REM STA. 1 HAWAII STA 2 CUTLER
 303 REM LINE 200E OS TO 1000S
 310 DATA -30,-30
 320 DATA 30,5
 330 DATA 15,-15
 340 DATA 15,0
 350 DATA 0,-30
 360 DATA -30,-20
 370 DATA -30,0
 380 DATA -25,0
 390 DATA -20,30
 400 DATA -30,-30
 410 DATA 30,30
 420 DATA 30,30
 430 DATA 0,0
 440 DATA 0,-30
 450 DATA -30,0
 460 DATA -30,-20
 470 DATA -30,0
 480 DATA -30,-30
 490 DATA -30,-30
 500 DATA 0,-15
 510 DATA 0,0

PROPERTY NAME :HG PRIME
 FOR CLIENT:PETER CHRISTOPHER & ASSOC.
 DATE :MAY 10/84
 LINE NUMBER :200E OS TO 1000S
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS HAWAII

STN 2 IS CUTLER



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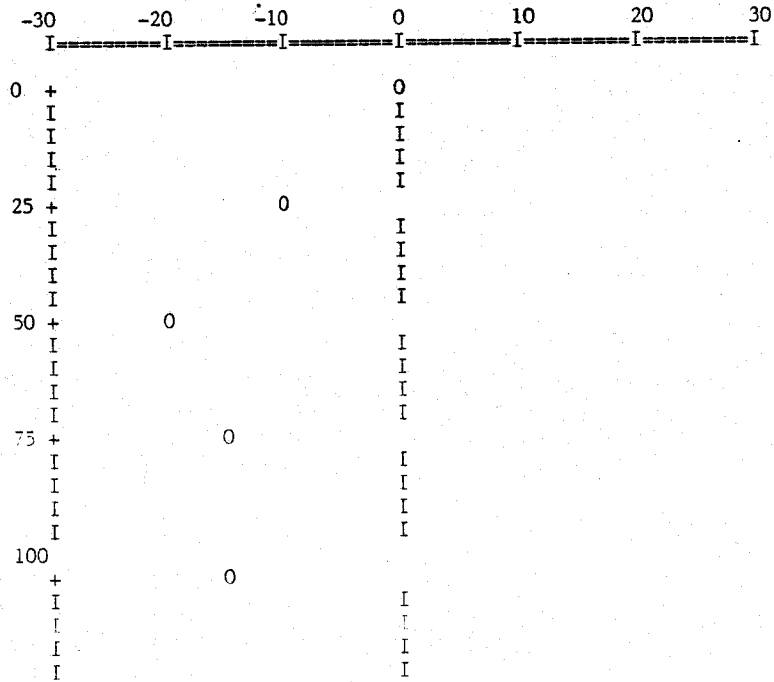
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300 REM ENTER DATA: DATA Y1,Y2
 301 REM PROPERTY IS HG PRIME
 302 REM STA. 1 HAWAII STA 2 CUTLER
 303 REM LINE 00 OS TO 1000S 50M STA.
 310 DATA 0,-30
 320 DATA -10,-30
 330 DATA -20,-30
 340 DATA -15,-30
 350 DATA -15,-30
 360 DATA -30,30
 370 DATA -30,30
 380 DATA -30,30
 390 DATA -30,-30
 400 DATA -30,0
 410 DATA -30,0
 420 DATA -30,0
 430 DATA -30,0
 440 DATA -25,0
 450 DATA -15,-30
 460 DATA -25,0
 470 DATA 0,0
 480 DATA 0,0
 490 DATA -30,0
 500 DATA 0,0

PROPERTY NAME :HG PRIME
 FOR CLIENT:PETER CHRISTOPHER & ASSOC.
 DATE :MAY 10/84
 LINE NUMBER :00 OS TO 1000S
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS HAWAII
 STN 2 IS CUTLER



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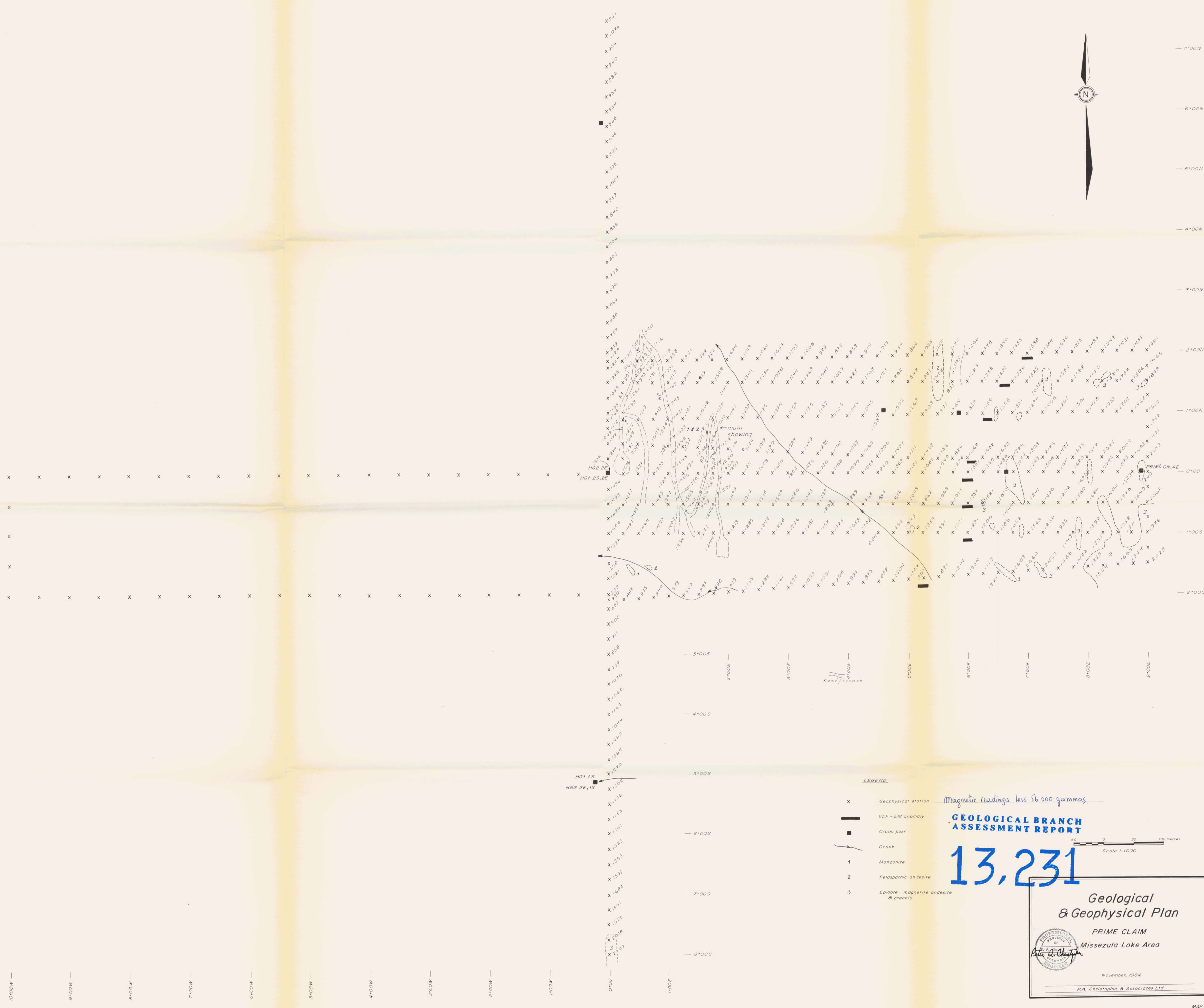
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300 REM ENTER DATA: DATA Y1,Y2
301 REM PRIME-HG PROPERTY SEPT 29/84
302 REM STA 1 SEATTLE STA 2 HAWAII
303 REM ROAD 1 0 TO 225;R2 250 TO 500; R3 525 TO 675; R4 700 TO 825
310 DATA -10,-5
320 DATA -7,-5
330 DATA -7,-9
340 DATA -12,-12
350 DATA -16,-17
360 DATA -15,-14
370 DATA -15,-12
380 DATA -16,-10
390 DATA -15,-9
400 DATA -15,-10
410 DATA -16,-12
420 DATA -17,-13
430 DATA -18,-14
440 DATA -20,-17
450 DATA -20,-14
460 DATA -20,-16
470 DATA -24,-18
480 DATA -26,-20
490 DATA -32,-24
500 DATA -22,-12
510 DATA -17,-7
520 DATA -19,-11
530 DATA -27,-20
540 DATA -19,-17
550 DATA -17,-14
560 DATA -21,-16
570 DATA -20,-16
580 DATA -19,-15
590 DATA -15,-13
600 DATA -15,-11
610 DATA -15,-12
620 DATA -16,-16
630 DATA -18,-15
640 DATA -18,-12

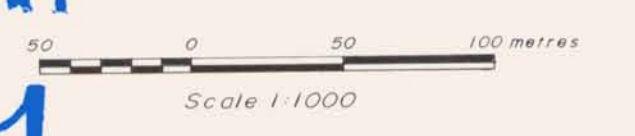


LEGEND

- x Geophysical station Magnetic readings less 56,000 gammas
- VLF-EM anomaly
- Claim post
- Creek
- 1 Monzonite
- 2 Feldspathic andesite
- 3 Epidote-magnetite andesite & breccia


**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

13,231



**Geological
& Geophysical Plan**

PRIME CLAIM
Miszszula Lake Area



November, 1984

P.A. Christopher & Associates Ltd.