

GEOPHYSICAL AND GEOCHEMICAL REPORT  
MOON CLAIMS  
RANCHERIA AREA, YUKON TERRITORY  
WATSON LAKE MINING DISTRICT

LOCATION

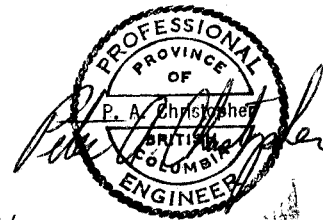
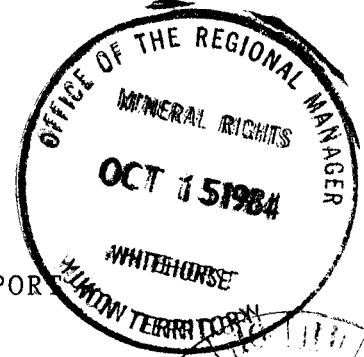
N.T.S. 105-B-1  
LATITUDE:  $60^{\circ} 01' 32''$   
LONGITUDE:  $130^{\circ} 19' 26''$

FOR

OROTEK RESOURCES CORPORATION  
1520-625 HOWE STREET  
VANCOUVER, BRITISH COLUMBIA  
V6C 2T6

BY

PETER A. CHRISTOPHER, Ph.D., P. Eng.  
PETER CHRISTOPHER & ASSOCIATES INC.  
3707 WEST 34th AVENUE  
VANCOUVER, BRITISH COLUMBIA  
V6N 2K9



SEPTEMBER 14, 1984

091571



This report has been examined by  
the Geological Evaluation Unit  
under Section 53 (4) Yukon Quartz  
Mining Act and is allowed as  
representation work in the amount  
of \$ 10,000.00

*for* *D. D. Emmond*  
Regional Manager, Exploration and  
Geological Services for Commissioner  
of Yukon Territory.

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MOON PROPERTY

SUMMARY

A geochemical and geophysical program was conducted on the Moon claims between August 16th and August 23rd, 1984 to explore a favorable geological setting for silver-lead-zinc mineralization. A total of 402 geochemical samples were obtained and 11.5 kilometers surveyed with VLF-EM and a magnetometer. The favorable Lower Sylvester-McDame contact which is well mineralized on the adjacent Midway Property is closer to the surface in the southern part of the Moon claims. VLF-EM and anomalous silver geochemical values were obtained in this area of the property. A Stage II geophysical program employing Pulse or MAX-MIN II electromagnetic equipment is recommended to test the favorable contact in the southern part of the property. The Stage II program is estimated to cost \$20,000. A Stage III 500 meter diamond drill test is contingent on the results of Stage II. (2)

## INTRODUCTION

The Moon 1 to 28 mineral claims are situated seven miles north and along geological strike from the Midway silver-lead-zinc deposits. Discovery of the Midway stratiform deposits in 1981 by Regional Resources Ltd. has encouraged reevaluation of adjacent areas with similar geology for lead-zinc-silver-barite deposits. Figure I compiled by B. J. Price (1983) shows the location of the Moon property with respect to the Midway and other significant deposits in Northern British Columbia and the Yukon Territory.

Peter Christopher & Associates Inc. was retained by Orotek Resources Corporation to conduct the geophysical and geochemical program recommended in the writers February 1983 report. The field program was conducted between August 16-23, 1984. The writer was assisted during the field program by Mr. Gerry Hayne.

This report summarizes the results of the initial geochemical and geophysical exploration of the Moon claims and provides recommendations for further evaluation of the property.

## LOCATION AND ACCESS: (Figures I & II)

The Moon Claims are situated west of the Tootsee River about 90 kilometers west of Watson Lake and about 16 kilometers (10 miles) southeast of Rancheria, a small settlement on the Alaska Highway. The Moon Claims are immediately west of the Mid Claims (Regional Resources -Canamax-Procan) and east of the Blue and Ace Claims being explored by Butler Mountain Minerals and Acorn Resources Ltd (see Figure IV). The British Columbia-Yukon Territory boundary is about 1.2 kilometers south of the property.

The Tootsee Lake Road, a gravel access road which leaves the Alaska Highway at Mile 701 provides four wheel drive access to the eastern edge of the Moon Claims. A ford of the Rancheria River can be used after mid-July with alternate bridge access at Mile 706 connected by 8 kilometers of rough road to the Tootsee Lake Road. Fuel and accommodation are available at Rancheria, and most supplies and services are available at Watson Lake, Y.T. which is serviced by daily flights from Whitehorse and Vancouver or Edmonton.

## TOPOGRAPHY

The Moon Claims lie between 1585 meters (5200 feet) and 1067 meters (2500 feet) which gives the claims a moderate relief of 518 meters. The claim area is situated west of the Tootsee River Valley and a strong easterly flowing tributary is situated near the southern boundary of the property. The claims contain some useable pine and fir but higher elevations are above timber line.



**OROTEK RESOURCE CORP.**

**FIGURE 1.**  
 Location Map and Major  
 Mineral Deposits, Northern  
 B.C.-Yukon Border

0 10 30 50km

B.J. PRICE, M.Sc. Feb., 1993

FIGURE 2

JULY, 1984

Watson Lake Mining District

MOON PROPERTY

CLAIM MAP

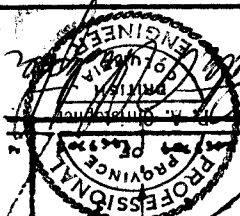
OROTEK RESOURCES CORP.

Scale 1:125,000

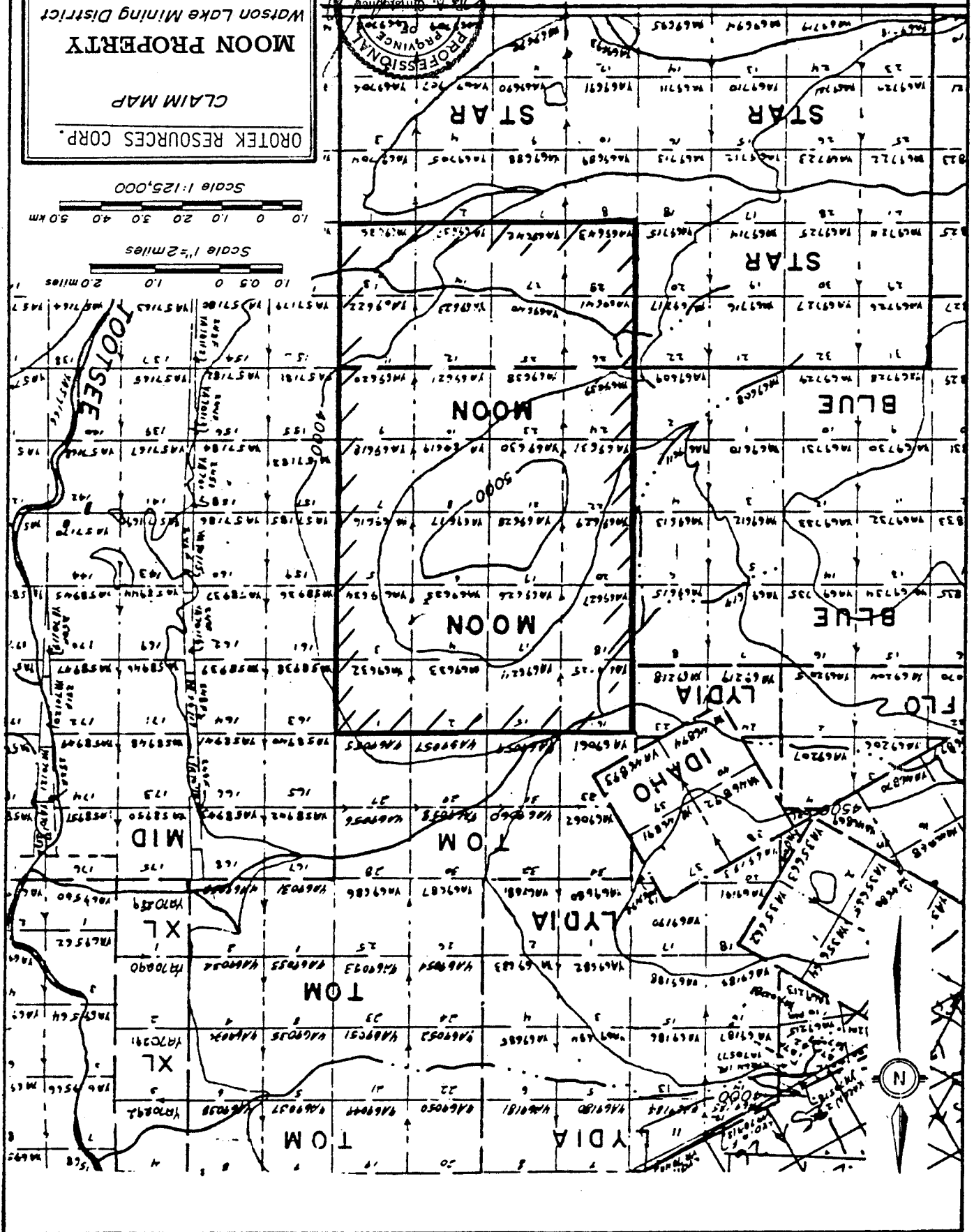
Scale 1/2 Miles

Scale 1/2 Miles

Scale 1/2 Miles



B.C. / Yukon border



CLAIMS AND HISTORY

The Moon 1 to 28 claims were recorded in February, 1983. Table I provides a summary of pertinent claim data obtained from the recording office and from claim map 105-B-1 (Department of Northern Affairs and Natural Resources). Several claim posts found during the field program are shown on Map I. Metal tags had been placed on most of the posts. The maximum possible ground coverage of 20.9 hectares (51.65 acres) per claim is reduced by overlap of adjacent claims and less than maximum spacing of posts.

Old claims posts found near 10+00W on the baseline indicate that the ground has been staked in the past but the writer has been unable to locate any records of previous exploration work.

TABLE I. SUMMARY OF MOON CLAIM DATA (NTS 105-B-1)

<u>Claim Name</u>	<u>Record No.</u>	<u>Date Recorded</u>	<u>Work Due</u>	<u>Staker</u>
Moon 1-4	YA69632-35	Feb. 10/83	1985	Peter Stoffer
Moon 5-12	YA69616-23	Feb. 9/83	1985	Val Morchischuk
Moon 13-14	YA69636-37	Feb. 10/83	1985	Rick Ferguson
Moon 15-22	YA69624-31	Feb. 9/83	1985	Terry Close
Moon 23-28	YA69638-43	Feb. 10/83	1985	Rick Ferguson

WORK PROGRAM

The work program on the Moon Claims was conducted between August 16th and August 23rd, 1984. A base camp was constructed on the Tootsee Lake road near the northeast corner of the property on August 16th and moved to Watson Lake for storage on August 23rd. Flagged and chained lines with flagged stations were established as control for soil and geophysical stations. Map 1 shows sample numbers and line and station locations. A total of 398 soils were collected at 50 meter intervals along claim lines and selected intermediate lines. VLF-EM and magnetic readings were recorded at 25 meter intervals along 11.5 kilometers of the established lines. Magnetic readings are plotted on Map 3 with locations of VLF-EM anomalies as interpreted from sections presented in Appendix A. A total of 398 soils, 3 silts and 1 rock sample were collected, dried and shipped to Chemex Labs Ltd. in North Vancouver. Soil samples were analyzed for lead, zinc and silver with copper and molybdenum analyses added to rock and silt samples.

REGIONAL GEOLOGY (FIGURE 3)

The Moon claim area is situated on the eastern flank of the Cassiar batholith. The Cassiar batholith extends for over 300 kilometers southeasterly from the Wolf Lake map sheet in the Yukon to the Kechika map area in British Columbia. In the Jennings River, Cassiar-McDame map areas and southern part of the Wolf Lake map area the eastern flank of the batholith is underlain by Paleozoic rocks from Cambrian to Carboniferous in age. Paleozoic rocks are separable into two or more contrasting assemblages with some of the rocks believed to be deposited elsewhere and moved into place along flat lying faults.

Rock units are described by Poole (Map 10-1960) and by Gabrielse (GSC Paper 68-55, 1968). Brief descriptions of the rock units mapped by Poole in the Moon claim area are summarized below (after Poole, 1960).

Units 1 and 2: (Lower Cambrian)

Unit 1 consists of biotite schists, quartzite, marble and skarn, with areas of extensive sills, dykes and irregular bodies of pegmatite, particularly near the contact with the Cassiar batholith.

Unit 2 contains quartzite, slate, and phyllite, quartz grit and fine pebble conglomerate. Adjacent to the batholith the rocks are hornfelsed.

Unit 3: (Lower Cambrian)

Unit 3, which hosts numerous lead-zinc-silver prospects, consists of grey limestone, grey to green argillite and slate, and dolomite. The unit is converted to skarn adjacent to the batholith.

Unit 4: (Middle Cambrian to Silurian)

Unit 4 consists of buff to grey slates, phyllites and limestone with dolomite and dolomitic limestone partly converted to skarn. Unit 4 is difficult to distinguish from units 2 and 3.

Unit 5: (Ordovician to Silurian)

Unit 5 is mainly quartzites, dolomitic siltstone and thin-bedded shale and limestone, and is probably equivalent to unit 4 in the adjacent Jennings River map area.

Unit 6: (McDame Group)

The McDame Group, dark, fetid, dolomites and limestones with abundant fossil debris, forms a distinctive marker unit. Dolomite breccia is common and white, vuggy dolomite may represent reefoid accumulations of fossils that resulted from shoals in a shallow platform environment. Fossil evidence indicates that the McDame Group is Middle Devonian in age.

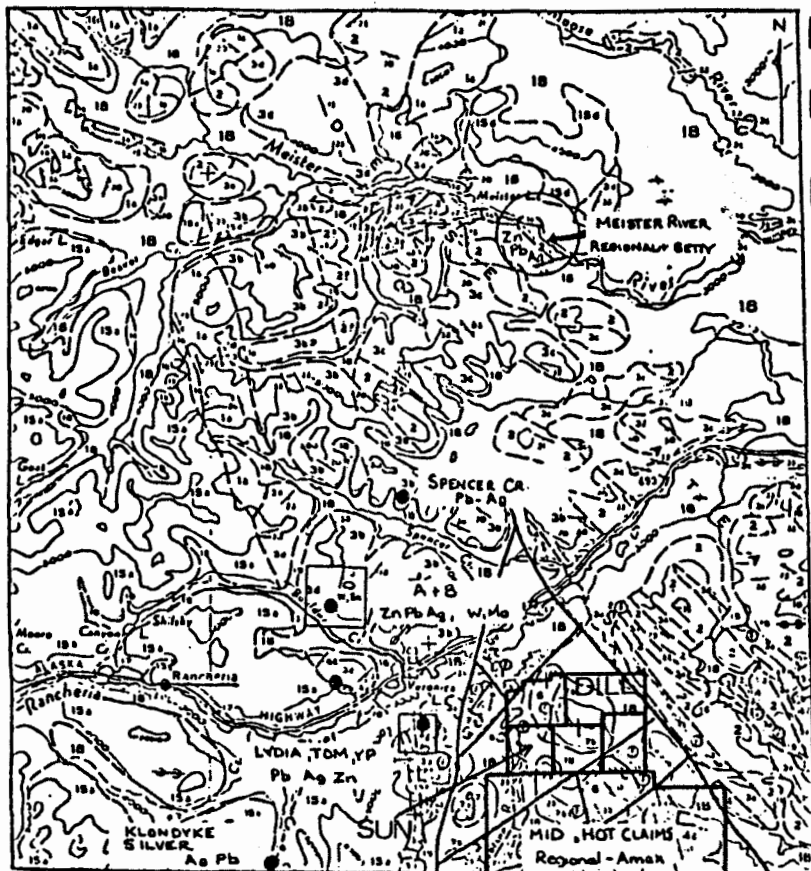


FIGURE 3. Regional geology of Kancheria area, Y.T.,  
 Portion of G.S.C. Map 10 - 1960 (Wolf  
 Lake), Scale: 1 in = 6.5 miles.

### LEGEND

#### QUATERNARY

##### PLEISTOCENE AND RECENT

- 18 Glacial till; gravel, sand, and silt; lake clay;  
 volcanic ash

##### TERTIARY (?) AND QUATERNARY

- 17 Vesicular olivine basalt

##### CRETACEOUS OR TERTIARY

- 16 SEAGULL AND HAKE BATHOLITHS AND STOCKS;  
 mainly biotite leuco-quartz monzonite and alkalis,  
 in places with quartz-tourmaline concentrations and  
 miarolitic cavities

##### JURASSIC AND/OR CRETACEOUS

- 15 15a, CASSIAR BATHOLITH; mainly biotite quartz  
 monzonite and granodiorite, in part sheared and altered;  
 15b, RAM STOCK; saussuritized biotite-hornblende  
 quartz monzonite and granodiorite, in part sheared;  
 15c, LOGJAM STOCKS; mainly biotite-hornblende  
 quartz monzonite with basic borders; 15d, mainly  
 biotite quartz monzonite and granodiorite; 15e, mainly  
 biotite-muscovite granodiorite

- 14 Dioritic rocks: diorite, granodiorite, quartz diorite;  
 14a, includes gneiss, hornblende

- 13 Ultramafic rocks: olivine-bearing clinopyroxenite,  
 dunite; serpentized and metamorphosed equivalents

##### PERMIAN TO JURASSIC (?)

- 12 12a, pebble and cobble conglomerate, graywacke,  
 limestone; minor quartzite, chert; 12b, andesitic  
 volcanic breccia and tuff; minor lava(?); 12c, feldspathic  
 quartzite, subgraywacke, graywacke, quartzite, grit,  
 argillite; relatively rich in microcline, may be in part  
 equivalent to 12a and 12b

##### MISSISSIPPIAN

##### LOWER AND MIDDLE MISSISSIPPIAN

- 11 Upper Division: chert, slate, argillite, hornfels; minor  
 graywacke; 11a, limestone and dolomite, in part with  
 chert nodules, sharn; 11b, sandy and conglomeratic tuff
- 10 Lower Division: chert and quartzite pebble and cobble  
 conglomerate, chert, quartzite, slate, argillite, hornfels

##### DEVONIAN AND MISSISSIPPIAN

##### UPPER DEVONIAN AND LOWER MISSISSIPPIAN

- 9 Limestone and dolomite, in part with chert nodules, sharn
- 8 Chert, hornfels, argillite, slate, phyllite, quartzite,  
 limestone, in part with chert nodules; sharn, tremolitic  
 marble, dolomite; 8a, schist and gneiss

- 7 Greenstone, chlorite schist and quartzite, phyllite, slate,  
 argillite, chert; 7a, greenstone, chlorite schist;  
 7b, argillite, slate, phyllite, chert, subgraywacke, grt,  
 conglomerate, sericite-biotite schist and quartzite;  
 7c, limestone and dolomite, in part with chert nodules;  
 7d, quartz-albite-mica gneiss, albite-actinolite schist

##### SILURIAN AND DEVONIAN

##### MIDDLE SILURIAN AND MIDDLE DEVONIAN

- 6 Upper part: gray and black foliated dolomite and calcitic  
 dolomite;  
 Lower part: quartzite and dolomitic quartzite

##### MIDDLE SILURIAN

- 5 Gray-buff dolomite; underlain by thin-bedded shale and  
 limestone, and buff dolomitic limestone and quartzite

##### CAMBRIAN TO SILURIAN

##### MIDDLE CAMBRIAN TO MIDDLE SILURIAN

- 4 Thin-bedded buff and gray slate, phyllite, and limestone,  
 dark gray slate and limestone; 4a, thin-bedded buff and  
 gray phyllite and limestone; probably Middle and Upper  
 Cambrian; 4b, black slate, argillite, gray dolomite, and  
 dolomitic limestone; probably Ordovician; 4c, hornfels,  
 limestone, sharn

##### CAMBRIAN

##### LOWER CAMBRIAN

- 3 3a, gray limestone; minor dolomite, slate, and phyllite;  
 3b, unfossiliferous, probably equivalent to 3a; 3c, limestone  
 minor gray and green argillite and slate, dolomite; may be  
 older than 2; 3d, marble, sharn

##### CAMBRIAN AND (?) EARLIER

##### LOWER CAMBRIAN AND (?) EARLIER

- 2 Quartzite, minor slate and phyllite, quartz grit and fine  
 pebble conglomerate; 2a, phyllite, minor slate; 2b, hornfels
- 1 Probably metamorphic equivalents of 2; 1a, biotite schist  
 and quartzite; 1b, marble and sharn; 1c, biotite schist and  
 quartzite with siliceous dykes, and irregular bodies of pegmatite;  
 1d, biotite schist and gneiss

CASSIAR INTRUSIONS

- Geological boundary (defined, approximate or assumed) . . . . .
- Bedding (horizontal, inclined, vertical,  
 estimated; g, gentle; m, medium; s, steep) . . . . .
- Schistosity, gneissosity, cleavage (horizontal, inclined,  
 vertical) . . . . .
- Fault (defined, approximate, assumed) . . . . .
- Anticline (position approximate) . . . . .
- Syncline (position approximate) . . . . .
- Drift: ridge or rock groove (direction of ice-movement  
 known, unknown) . . . . .
- Fossil locality . . . . .

#### MINERAL SYMBOLS

- Fluorite . . . . . Fl Tin . . . . . Sn  
 Lead . . . . . Pb Tungsten . . . . . W  
 Silver . . . . . Ag Zinc . . . . . Zn

Geology by W. H. Poole, 1951-1955  
 J. A. Roddick and L. H. Green, 1959

### Unit 7b: (Lower Sylvester Group)

Gabrielse (1968) states, "the contact of the McDame Group with the overlying Sylvester Group is almost invariably a fault." The lower part of the unit is fine grained, black, locally graphitic slates and phyllites, with grey to black bedded ribbon cherts. The upper part contains argillites, interbedded with sandstones, grit and conglomerate. Cherty, fine grained limestone may be present near the top of the unit.

Several barite-silica "exhalite" horizons are present within the lower Sylvester Group in the vicinity of the "Midway" property. Stratigraphy in this area, within the Sylvester Group is described in detail by Hylands (1981), and is summarized in a diagrammatic section (Figure 3A).

### Units 7a & 8: (Upper Sylvester Group)

Massive volcanic rocks, including flows, breccias, tuffs and agglomerates with aggregate thickness of over 1500 feet form Unit 7 with ultramafic rocks (Unit 8) cutting the volcanics. The volcanics include basalt, dacite and rhyolite flows and coarse-grained equivalent intrusive rocks are reported to exist in the unit (Gordey, et al 1982). Most rocks are pervasively altered to "greenstones", making them appear massive.

### Cassiar Batholith

The northwesterly trending Cassiar Batholith is situated just west of the claim area. Much of the batholith consists of massive, homogeneous biotite quartz-monzonite, grey in color and medium to coarse grained in texture. Other varieties include muscovite quartz monzonite, augen gneisses and pegmatitic dykes. Alteration and shearing are commonly associated features. Sericitization, chloritization and albitization are prevalent in some areas.

### Dykes

Greenstone dikes are common in the batholith and the adjacent Paleozoic sedimentary rocks. Some lamprophyre dykes have been identified.

### STRUCTURE

Faulting is considered to be a necessary feature for controlling mineralizing solutions in the area. Strong northwest to northeast faulting has affected the area. Most faults are steep, normal faults such as the north-trending easterly dipping fault cutting through the western portion of the Midway property. Faults are marked by depressions and green dykes, some of which are schistose, indicating continued movement. Low angle faults are known to cut the Sylvester sequence in the vicinity of the Midway deposits (Hylands, 1981). A strong shear zone trends northwesterly through the Cassiar batholith west of Tootsee Lake, and along this feature pervasive shearing and mylonization occur over a width of 3 kilometers.

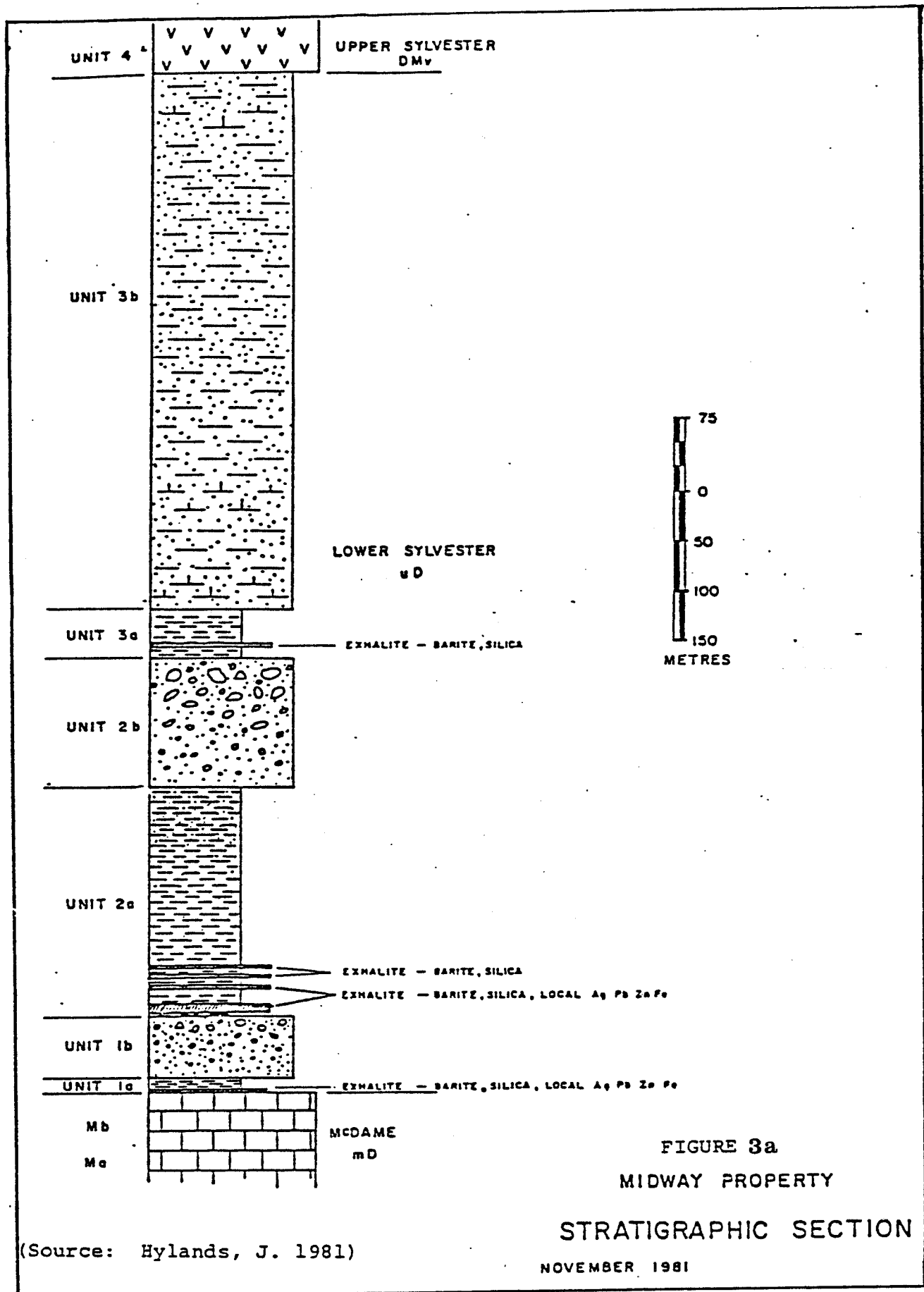


FIGURE 3a  
MIDWAY PROPERTY

STRATIGRAPHIC SECTION

(Source: Hylands, J. 1981)

PROPERTY GEOLOGY

Grid mapping was conducted during the geochemical and geophysical surveys but no attempt was made to map between grid lines. The sequence of rocks encountered in the northern part of the property appear to be part of the Upper Sylvester sequence of volcanic related rocks and chert with red color of tuffaceous argillite indicating at least partly subaerial conditions. Outcrops along the main creek valley in the southern part of the property are siliceous and pyritic phyllite and argillite that have lithologic similarity to Lower Sylvester rocks. The rock units in the southern part of the property are closer to the stratigraphic level being explored on the adjacent Midway property. VLF-EM anomalies located near the main creek may result from topography or from a mineralized structural zone that controls the creek position. Some anomalous silver values occur near the VLF-EM anomalies.

MINERAL DEPOSITS IN THE AREA (FIGURE 4)

The most significant development in mineral exploration in the southern Yukon Territory and northern British Columbia in the last few years is the discovery of stratiform silver-lead-zinc mineralization within "exhalite" massive sulphide and silica barite horizons in the lower portion of the Mississippian-Devonian Sylvester Group. The discovery by Regional Resources Ltd. and partners Canamax and Procan caused reevaluation of geological data concerning mineral showings adjacent to Regional's "Midway" property.

Several silver-lead-zinc+gold deposits in Cambrian to Middle Devonian strata (Amy, YP, A+B, Sue) and in high grade veins within the Cassiar Batholith (Klondike Silver). Stratiform barite has been found on the Midway property and skarn tungsten-molybdenum mineralization has been found on the Hot and Fly claims and on the Fiddler and Sue prospects. Tin mineralization has been noted at the Midway deposits and Fiddler prospect.

The Midway deposits of Regional Resources contain the most significant reserves in the area. The Midway deposits have reserves of 6.7 million tons grading 13.12 oz. silver, 11.12% zinc, and 8.84% lead (Northern Miner August 9, 1984).

GEOPHYSICAL SURVEYa) Methodology

Magnetometer and VLF-EM readings were collected along flagged and chained lines at 25 meter intervals with readings collected at soil sample sites and at intermediate stations. Geophysical survey stations are shown on Map 1 with a total of about 460 stations or 11.5 kilometers were surveyed. A Scintrex model MP2 magnetometer was employed with the detector in the pack mount. A base station was established about 50 meters west of the camp and read at the start and completion of traverses. diurnal variations were small and machine readings were plotted without correction. A Geonics Ltd. EM16 was used for the VLF-EM work. Readings were taken at two frequencies with Seattle, Hawaii, and Cutler (Maine) used (except when both Seattle and Cutler were not broadcasting). VLF-EM plots are presented in Appendix A with anomalies shown on Map 3.

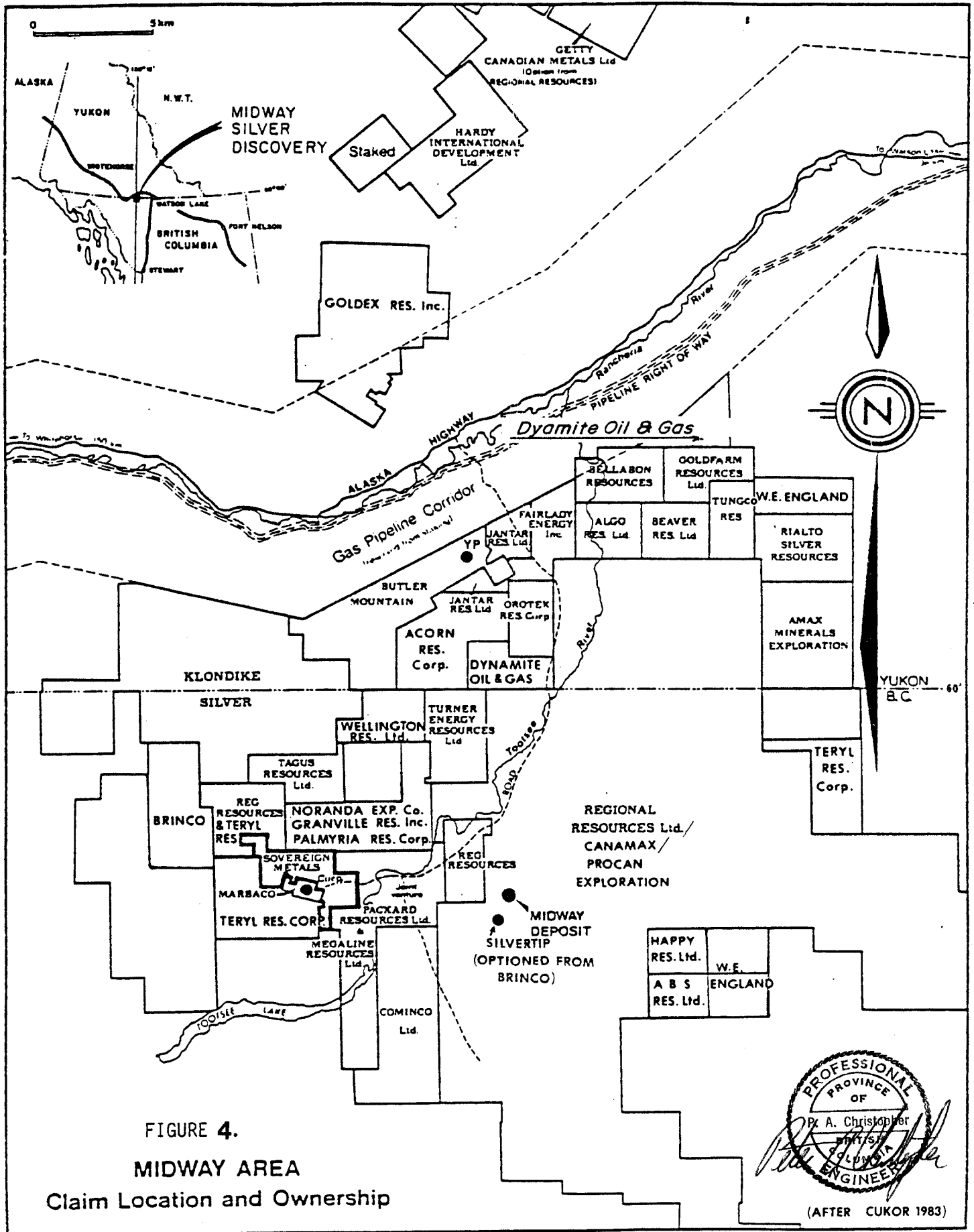


FIGURE 4.

MIDWAY AREA

Claim Location and Ownership

PROFESSIONAL  
 PROVINCE OF  
 P. A. Christopher  
 ENGINEER

(AFTER CUKOR 1983)

This map does not guarantee claim locations or ownership.

● Mineral deposit or occurrence

## b) Results

Magnetic readings varied from 58,240 gammas to 58,717 gammas with a magnetic relief of 477 gammas detected during the survey. The highest value was at station 14+75W;9+25S. Low values occur along the baseline from 6+25 to 7+25W and on line 6+28W from the baseline to 2+00S with 472 gammas of magnetic relief on the Moon 4 claim. Rock type changes probably cause the magnetic relief but alteration may be causing the restricted magnetic low. A magnetic high also occurs near the number 1 post for Moon 21 and 22. The southern part of the property has very small magnetic relief and may be underlain by a single rock unit.

A total of 14 VLF-EM anomalies are plotted on Map 3. Anomalies are difficult to correlate because of the wide line spacing but the main creek at the southern part of the property either follows a conductor or produced false anomalies because of topography or water flow. Some of the higher silver values occur near the main creek and further geophysical examination of the area is warranted.

## GEOCHEMICAL SURVEY

### a) Methodology

Soil samples were collected from the B-horizon and put in kraft soil sample bags. The bags were labeled corresponding with the number written on flagging at the sample location. A total of 398 soil samples were collected at 50 meter intervals along chained and flagged lines. One rock sample and three silt samples were collected for geochemical analysis. Samples were sent to Chemex Labs Ltd., North Vancouver, for lead, zinc and silver analyses with copper and molybdenum added to silt and rock analyses. The results of the geochemical analyses are presented in Appendix 2 and plotted on Map 2.

### b) Results

Background and anomalous limits for geochemical results were based on results obtained from several surveys conducted in the Tootsee River area. Background, moderately anomalous and anomalous levels are summarized in Table 2. Results for lead and zinc are not strongly anomalous while a number of silver values are of interest and nine samples with over 1.0ppm silver are considered anomalous. Most of the 31 silver values of interest are either in a northeasterly trend in the center of the property or near the main creek in the southern part of the property.

## DISCUSSION

The Moon claims are situated in an area of active base and precious metal exploration and contain a geological setting similar to the adjacent Midway property. The favorable nature of the setting is suggested by anomalous silver values in the southern and central parts of the property. Values up to 1.7 ppm silver were obtained in an area that produced VLF-EM anomalies. Geological mapping and magnetics indicate a similar unit of the Lower Sylvester Group in the central and southern parts of the property while Upper Sylvester rocks outcrop in the northern part of the property. The favorable contact between

the Lower Sylvester Group and the underlying McDame Formation is nearer the surface in the southern part of the property. The VLF-EM anomalies obtained in this area should be tested with a penetrating electromagnetic system (eg. Max-Min II or Pulse).

#### CONCLUSIONS AND RECOMMENDATIONS

A geochemical and geophysical program conducted on the Moon claims has indicates that the southern part of the claim area is geologically and geochemically more favorable. The VLF-EM method employed tests for near surface conductors but the favorable Lower Sylvester-McDame contact should be tested with a penetrating electromagnetic method. A pulse or Max-Min II survey is recommended for the southern part of the property. An east-west valley dissects the area and should be considered when direction of lines is selected. A stage II program of grid preparation and electromagnetics is estimated to cost \$20,000. If suitable anomalies are obtained, a Stage III program of road building, site preparation and diamond drilling will be required. A 500 meter drill test is estimated to cost \$100,000.

COST STATEMENT

PERSONNEL

P.A. CHRISTOPHER P.Eng. 3707 West 34th Avenue Vancouver, B.C. V6N 2K9	6 days @ \$350ea. August 16-22/84	\$ 2,100
GERRY HAYNE B.Sc. 20891 44th Avenue Langley, B.C. V3A 5A8	7 days @ \$150ea August 16-23/84	1,050

MOB/DEMOB 650

ROOM & BOARD 13 MAN DAYS @ \$50EA 650

TRANSPORTATION

TRUCK RENTAL 4 X 4	7 DAYS @ \$100EA.	700
SHIPPING		100

GEOCHEMICAL ANALYSES @ cost + 5% 1,900

EXPENDABLES 230

RENTALS (VLF-EM, MAGNETOMETER, SAW ETC.) 250

RADIO/TELEPHONE 50

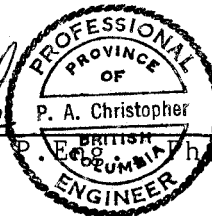
REPORT PREPARATION

WRITING & FILING	1,400
DRAFTING	300
SECRETARIAL, PRINTING, OFFICE	200

PROGRAM COST	\$ 9,580
FILING COSTS	420

TOTAL COST \$10,000

*Peter A. Christopher*  
PETER A. CHRISTOPHER P. Eng. B.Sc. Ph.D.  
September 14, 1984



## BIBLIOGRAPHY

- R.C. Annis & D.A. Cranstone, et al, (1978), A Survey of Known Mineral Deposits in Canada that are not being mined. M.R. 181 Department Energy, Mines and Resources.
- E.D. Black, (1967), Geochemical and Engineering Evaluation Report. Yukon Silver Properties, Spencer Creek Groups, Caribou Lake Group. Assessment Report for Pacific Giant Steel Ores Ltd.
- Camsell, George E., (1949), Geological and Diamond Drilling Report, Glen 1-38 Mineral Claims. Assessment Report No. 44. BCDM.
- Canadian Mines Handbook, Northern Mines Press, 1971-1980,
- E.P. Chapman, (1971), Report of Examination, Flo and Leo claim groups. Liard M.D. for Fosco Mining Ltd., Assessment Report No. 3566.
- K.J. Christie, (1971), Report on the Andrew Mineral Claims, Watson Lake Mining District, Yukon Territory. Private Report.
- Eccles, L.K., (1980), Geological and Geochemical Report JCS 1 and 2 claims, Liard M.D. Assessment Report No. 7870.
- Eccles, L.K., (1980), Geological and Geochemical Report Bear, Bear 2, JM, JR, TM, BP claims, etc. Dupont of Canada Exploration, unpublished report.
- George Cross Newsletter, 1981, 1982, Various news releases made by Regional Resources.
- Gabrielse, H., (1969), Geology of the Jennings River Map-Area. GSC Paper 68-55, 37pp.
- Gordey, S.P. et al, (1982), Stratigraphy and Structure of Sylvester Allocthon, Southwest McDame Map-Area, Northern British Columbia.
- W.H. Gross, (1964), Geological Geochemical and Geophysical Studies, Amy claim group. Rancheria Mining Company Ltd., BCDM Assessment Report No. 734.
- F. Holcapek, (1974), Report on the Tam 1 - 20 mineral claims. Liard M.D. for Balmoral Mines Ltd. (NPL). Assessment Report No. 4973.
- Stuart S. Holland, (1968), Silver Tip claims. Liard M.D. Summary of Geology and Exploration. B.C. Department Mines Annual Report, p. 24-33.

- Hylands, J., (1980), Midway property, Assessment Report No. 9912. BCDM.
- McArthur, R.G., (1979), Geochemical and Geological Report on Root 1 Mineral Claim. Assessment Report No. 7673. BCDM.
- McArthur, R.G., (1979), Geological Mapping and Diamond Drill Report, Toot 1, Toot 2, and Lake 8-11 Mineral Claims, Assessment Report No. 8125. BCDM.
- McArthur, R.G., (1979), Geological and Geochemical Report, Root 1, Boot, Loot and Road Claims Assessment Report No. 8566. BCDM.
- McDonald, G., (1979), Geological and Geochemical Report, Toot 1, Toot 2, and Lake Mineral Claims. Assessment Report No. 7257. BCDM.
- McIntyre, D.G., (1982), Midway Occurrence Geological Fieldwork, 1982. BCDM Paper 1982-1, pp.162-166.
- Mineral Industry Reports, D.I.A.N.D., Yukon Territory, 1973 - 1977.
- Price, B.J., (1975), Brief Report of the A + B claims near Rancheria, Y.T. Private report for Delphi Resources Ltd.
- Price, Barry J., (1980), Geological Report, YP Silver-Lead Prospect, Watson Lake, M.D., Yukon Territory. Unity Gold Resources, unpublished Company Report.
- Poole, W.H. et al, (1960), Wolfe Lake Map Area, Yukon Territory, G.S.C. Map 10-1960.
- Richardson Greenshields Canada Ltd., December 6, 1982, Regional Resources Ltd., Canadian Research Report, 4pp.
- Schellenberg, D.G., (1981), Soil geochemical field survey on part of ROX claim. Assessment Report. BCDM.
- Teskey, M.F., (1962), A Preliminary Geological and Engineering Evaluation; Susie, Hope and Pete Groups of claims, Yukon Territory for Native Minerals Ltd.
- White, Glen E. and Cruz, E.D., (1973), Geochemical and Geophysical Report. Cone Mountain Mines Ltd., Luck Mineral claims, Y.T.
- White, Glen E. and Parent, D., (1972), Geochemical Report. Cone Mountain Mines Ltd., Luck Mineral claims, Y.T.

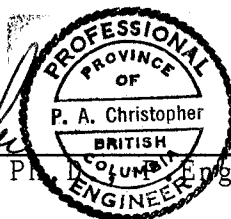
- Whiting, B.H., (1980), 1979 Prospecting Report for Tootsee Project, Toots 1-4 claims, Liard, M.D., Assessment Report 8061. BCDM.
- Basco, Daniel, M. (1974). A report on reconnaissance geology - physical work on Cone Mountain Mines Ltd. and Yukol Mines Ltd. B.C. - Yukon areas for 1974. B.C.D.M. Assessment Report No. 5095.
- White, Glen E., and Cruz, E.D. (1973) Geochemical Geophysical Report, Yucol Mines Ltd., B.C.D.M. Assessment Report No. 4663.
- White, Glen E. and Parent, D. (1972) Geochemical Report, Cone Mountain Mines Ltd. B.C.D.M. Assessment Report No. 3843.
- McKechnie, N.D. (1971) Geological and Geophysical report on the Sandy Group, Tootsee Ridge area, Y.T. and B.C. B.C.D.M. Assessment Report No. 3844.
- Gregory, D.J., Le,Bel, J.L. and Noble, S.R. (1981) Boulder Creek Property (1981 Diamond Drilling Report) for AMAX of Canada Ltd. Sept. 1981.
- Parry, S.E. (1980) Boulder Creek Property (1980 Diamond Drilling Report) for Amax of Canada Ltd. December,
- Green, L and Goodwin, C.I. (1963) Mineral Industry of the Yukon G.S.C. Paper 63 - 38, p. 31-33.
- Ralfs, Ken (1978) Year End Report, A & B Property (and Piggy Claims), South-Central Yukon, Watson Lake Mining Division for Serem Ltd.
- Ager, C.A. (1977) A & B Claims Gravity Survey for Serem

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 have no direct or indirect interest, nor do I expect to receive any interest directly or indirectly in the properties or securities of Orotek Resources Corporation.
- 6) I have based this report on a review of available geological data, and on an exploration program conducted under my supervision during August, 1984.
- 7) I consent to the use of this report by Orotek Resources Corporation for assessment work and in any Filing Statement, Statement of Material Facts or Prospectus issued by the Company.

*Peter A. Christopher*  
PETER A. CHRISTOPHER P. Eng.  
September 14, 1984



APPENDIX A

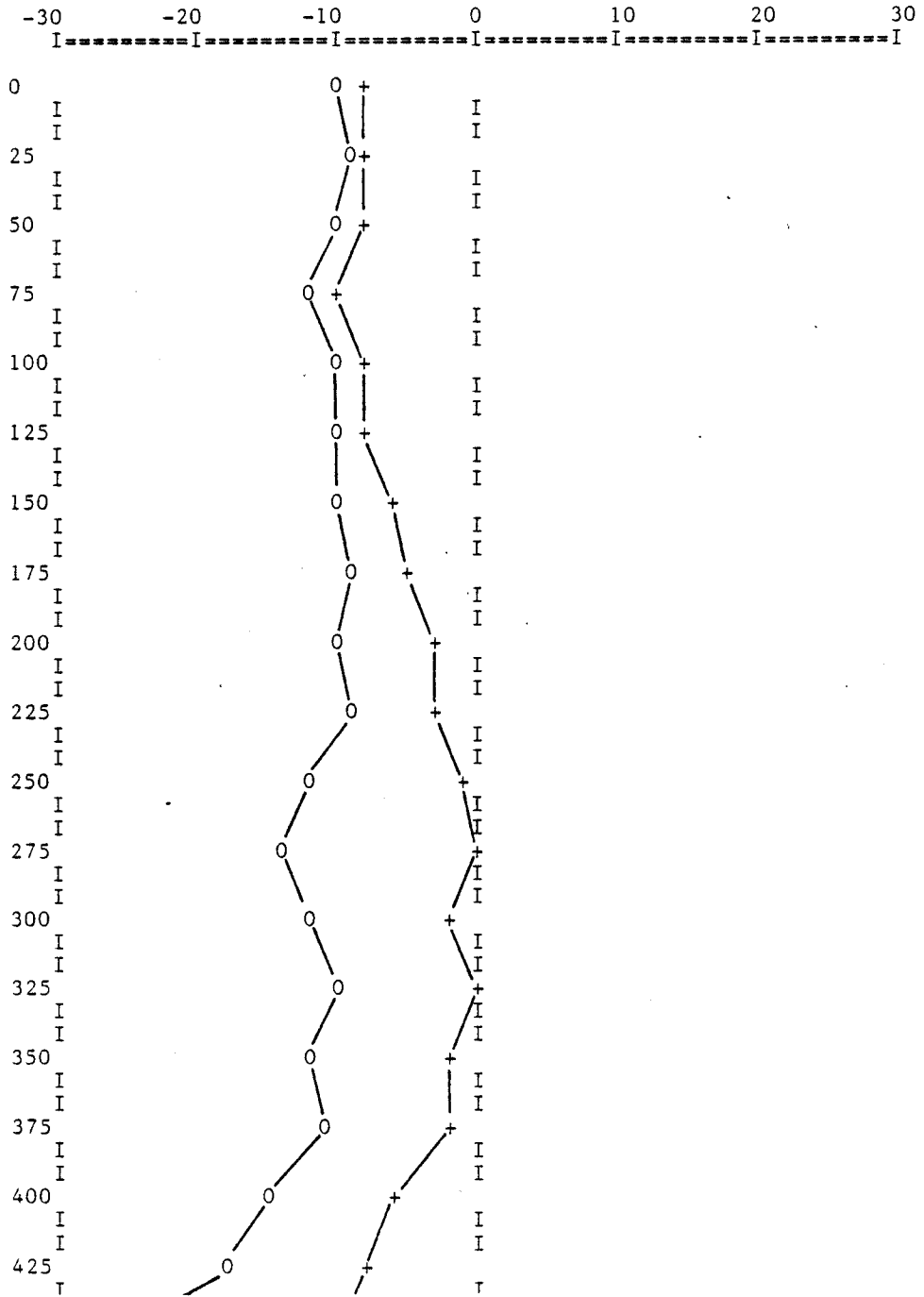
VLF-EM SECTIONS

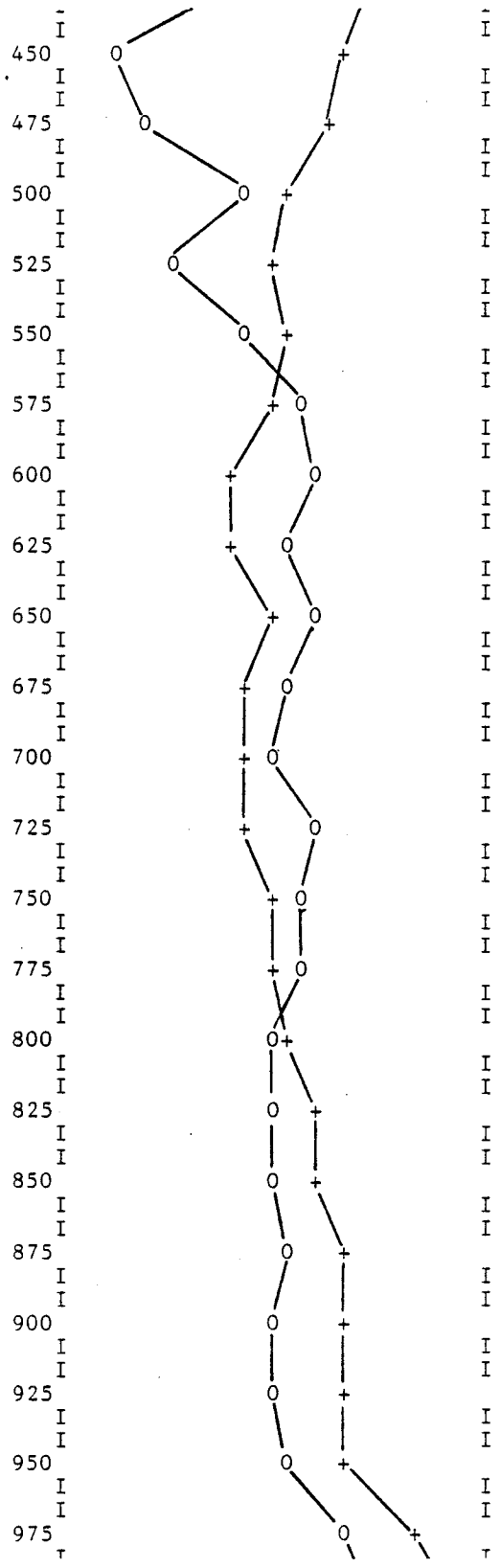
BL        00    TO    1900W  
LINE 375W    600N TO 00  
LINE 628W 600N TO 2500S  
LINE 1025W OS TO 2500S  
LINE 1475W    575N TO 25N  
LINE 1475W OS TO 2500S

300 REM ENTER DATA: DATA Y1,Y2  
301 REM MOON PROJECT - OROTEK  
302 REM STN 1 SEATTLE STN 2 HAWAII  
303 REM MOON PROP: OROTEK  
304 REM BL 00 TO 1900W  
310 DATA -10,-8  
320 DATA -9,-8  
330 DATA -10,-8  
340 DATA -12,-10  
350 DATA -10,-8  
360 DATA -10,-8  
370 DATA -10,-6  
380 DATA -9,-5  
390 DATA -10,-3  
400 DATA -9,-3  
410 DATA -12,-1  
420 DATA -14,0  
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440 DATA -10,0  
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460 DATA -11,-2  
470 DATA -15,-6  
480 DATA -18,-8  
490 DATA -26,-10  
500 DATA -24,-11  
510 DATA -17,-14  
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690 DATA -14,-10  
700 DATA -10,-5  
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720 DATA -6,2  
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790 DATA -8,6  
800 DATA -10,3  
810 DATA -8,4  
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830 DATA -7,7  
840 DATA -7,10  
850 DATA -7,10  
860 DATA -8,10  
870 DATA -7,0

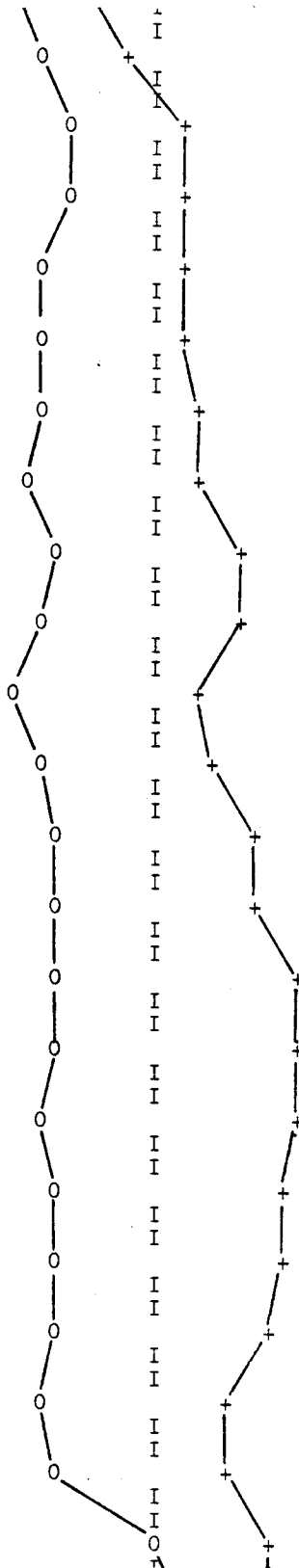
PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 17/84  
 LINE NUMBER :BL 00 TO 1900W  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE  
 STN 2 IS HAWAII

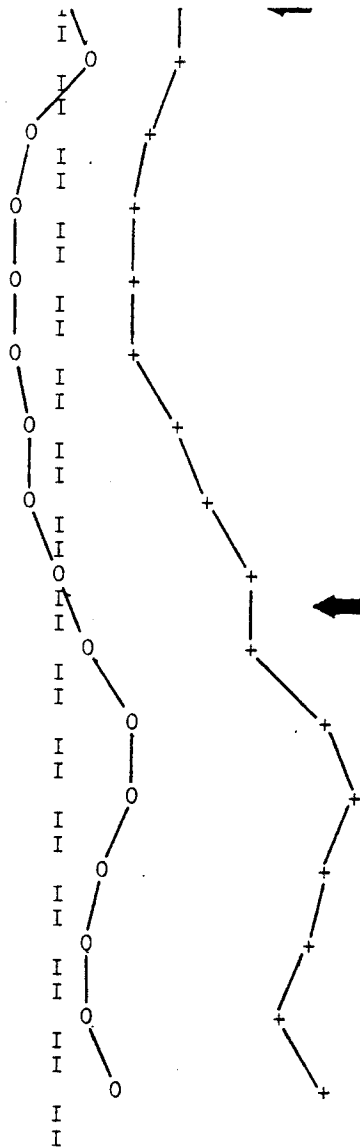




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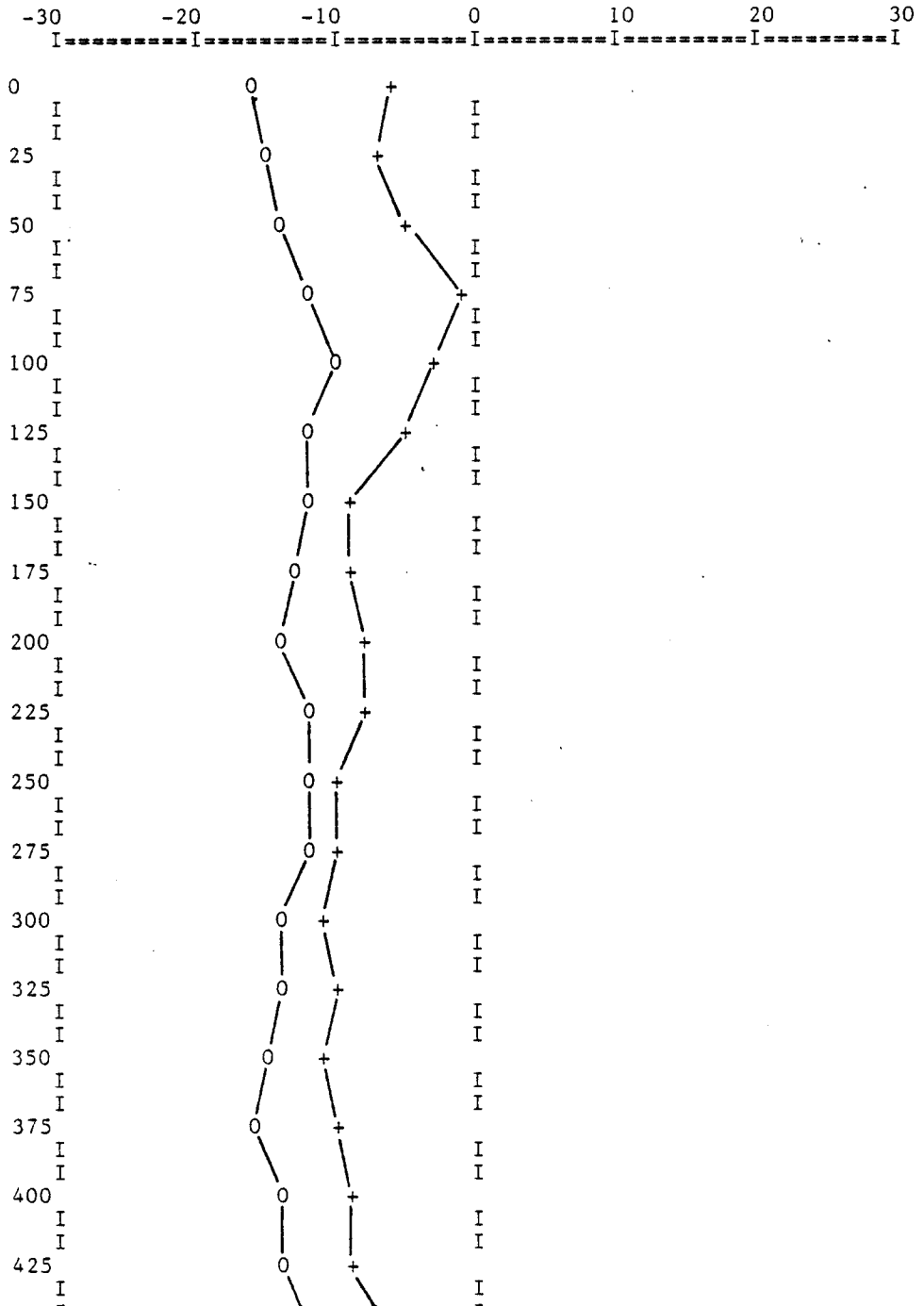


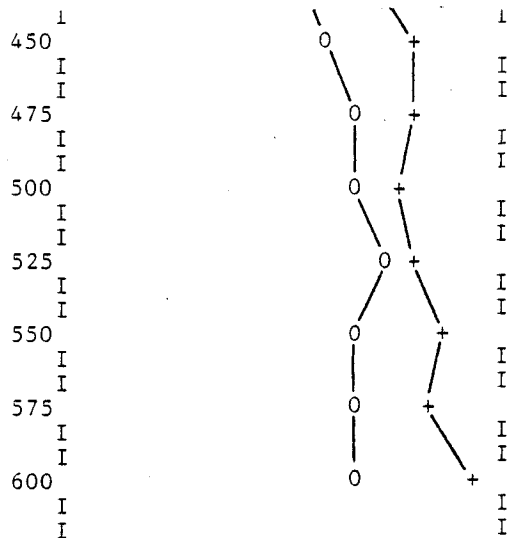
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PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 19/84  
 LINE NUMBER :375W 600N TO 00  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE  
 STN 2 IS HAWAII





```

300 REM ENTER DATA: DATA Y1,Y2
301 REM MOON PROJECT - OROTEK
302 REM STN 1 SEATTLE STN 2 HAWAII
303 REM MOON PROP. OROTEK
304 REM LINE 375W 600N TO OON
310 DATA -16,-6
320 DATA -15,-7
330 DATA -14,-5
340 DATA -12,-1
350 DATA -10,-3
360 DATA -12,-5
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400 DATA -12,-8
410 DATA -12,-10
420 DATA -12,-10
430 DATA -14,-11
440 DATA -14,-10
450 DATA -15,-11
460 DATA -16,-10
470 DATA -14,-9
480 DATA -14,-9
490 DATA -12,-6
500 DATA -10,-6
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520 DATA -8,-6
530 DATA -10,-4
540 DATA -10,-5
550 DATA -10,-2

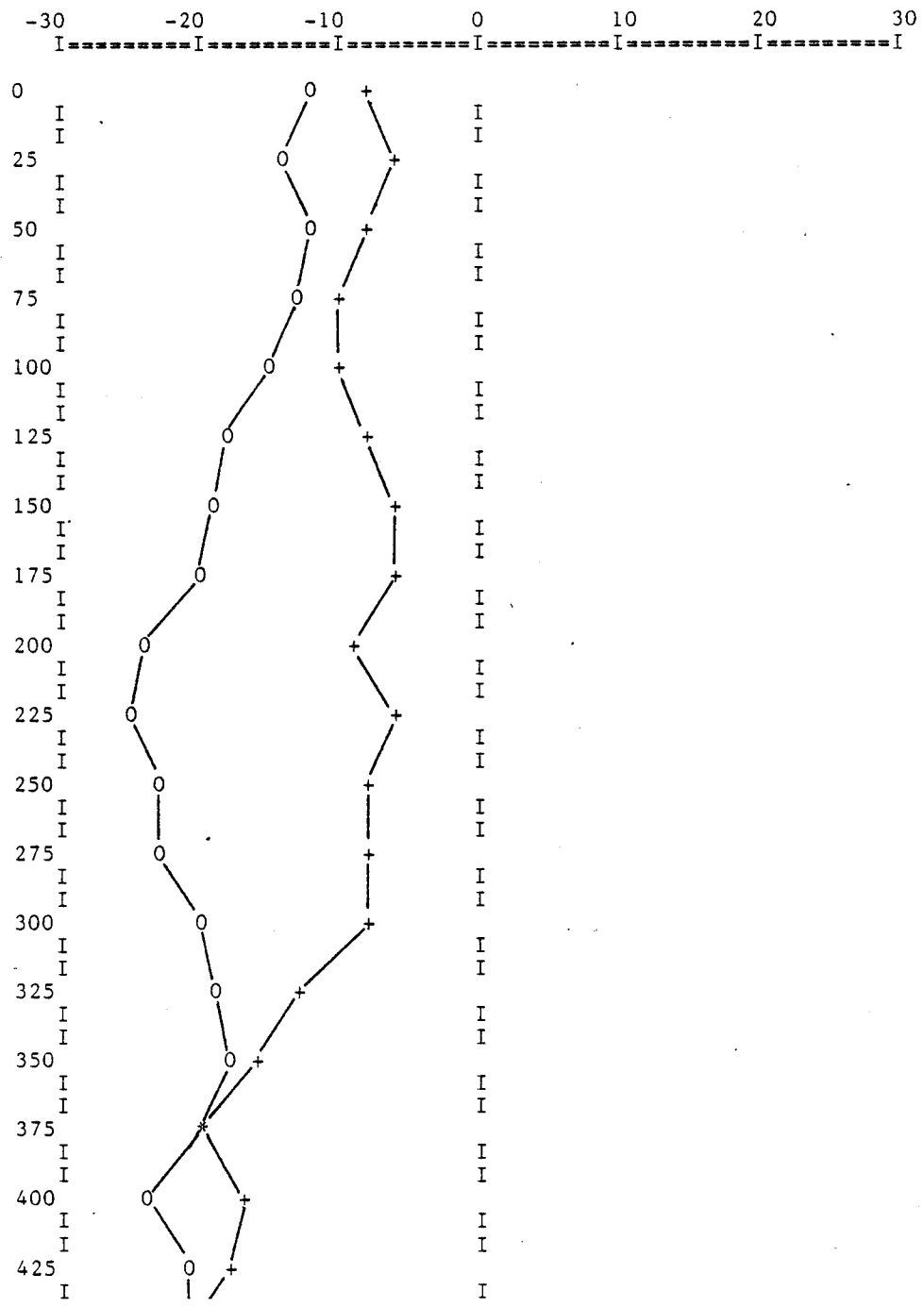
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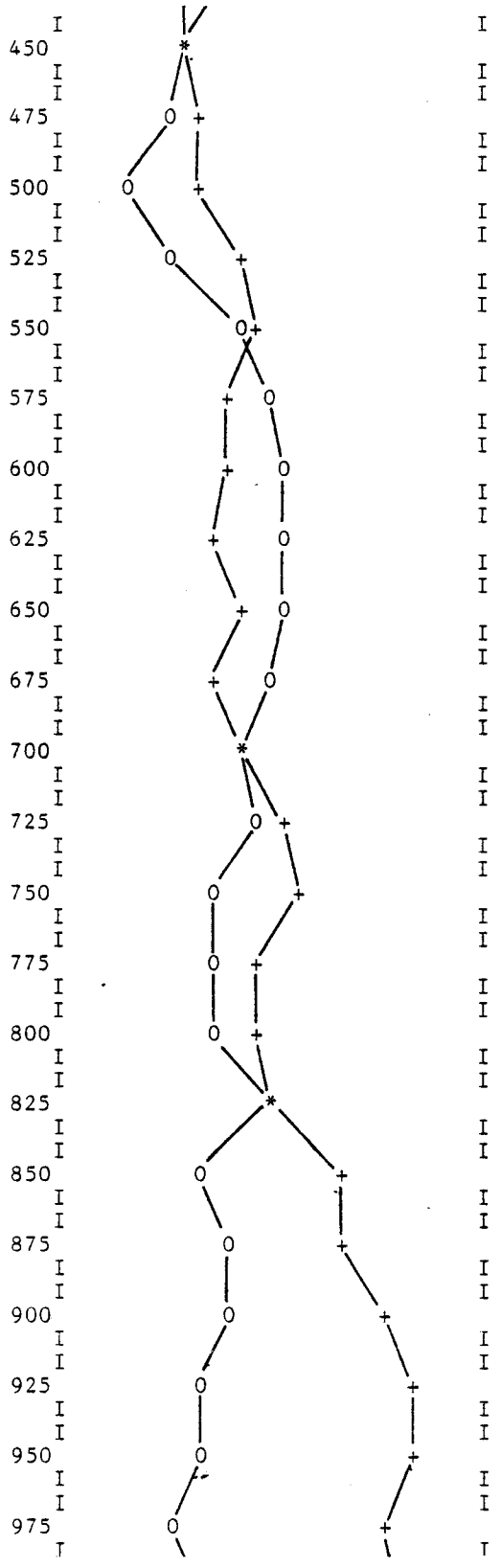
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302 REM OROTEK RESOURCES CORP. MOON PROPERTY  
303 REM STN 1 SEATTLE STN 2 HAWAII  
304 REM LINE 628W FROM 600N TO 2500S  
310 DATA -12,-8  
320 DATA -14,-6  
330 DATA -12,-8  
340 DATA -13,-10  
350 DATA -15,-10  
360 DATA -18,-8  
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380 DATA -20,-6  
390 DATA -24,-9  
400 DATA -25,-6  
410 DATA -23,-8  
420 DATA -23,-8  
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800 DATA -12,-25  
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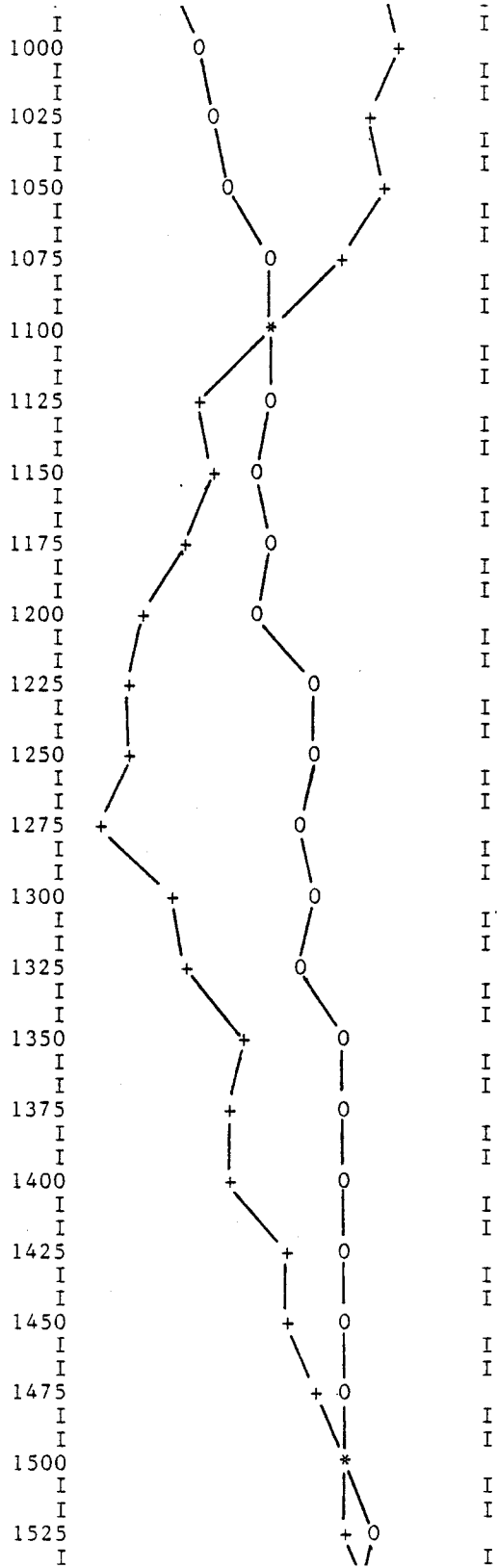
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1210 DATA -2,-6  
1220 DATA -1,-7  
1230 DATA 2,-6  
1240 DATA 4,-6  
1250 DATA 3,-5  
1260 DATA 1,-7  
1270 DATA 1,-5  
1280 DATA 1,-5  
1290 DATA 0,-4  
1300 DATA 0,-7  
1310 DATA 0,-9  
1320 DATA 4,-8  
1330 DATA 2,-9  
1340 DATA -2,-8  
1350 DATA -5,-8  
1360 DATA -7,-8  
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1520 DATA 2,12  
1530 DATA 4,20  
1540 DATA 3,20

PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 19/84  
 LINE NUMBER :628W 600N TO 2500S  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

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 STN 2 IS HAWAII

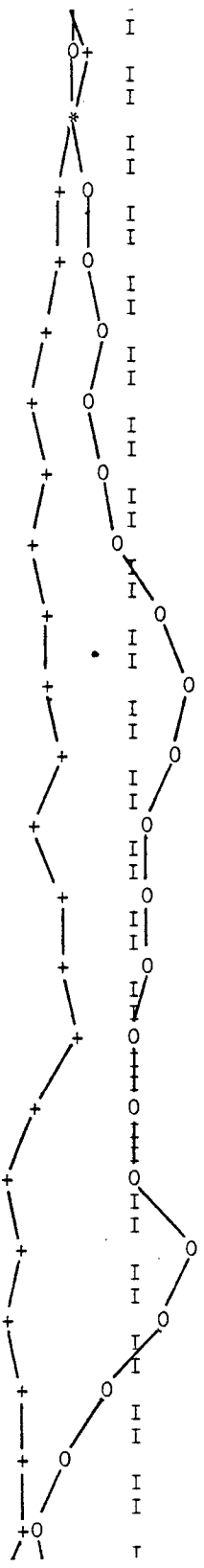






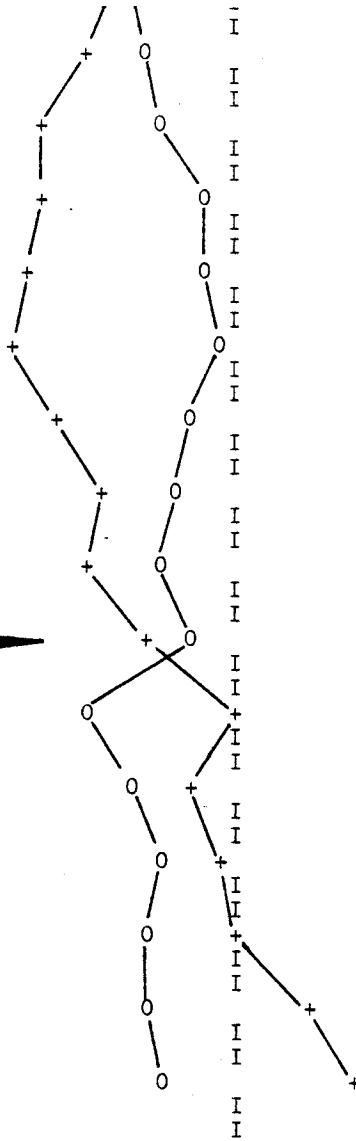


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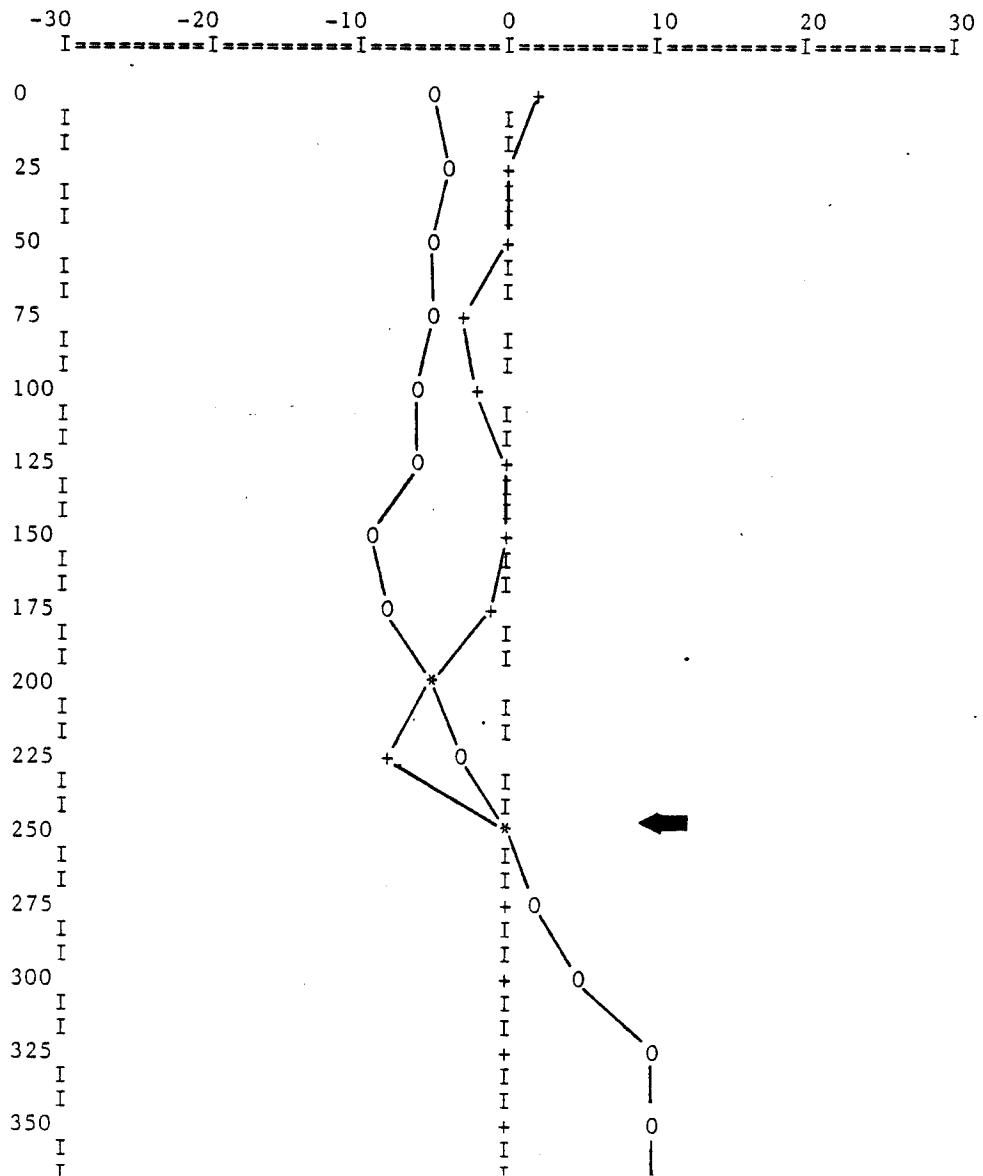
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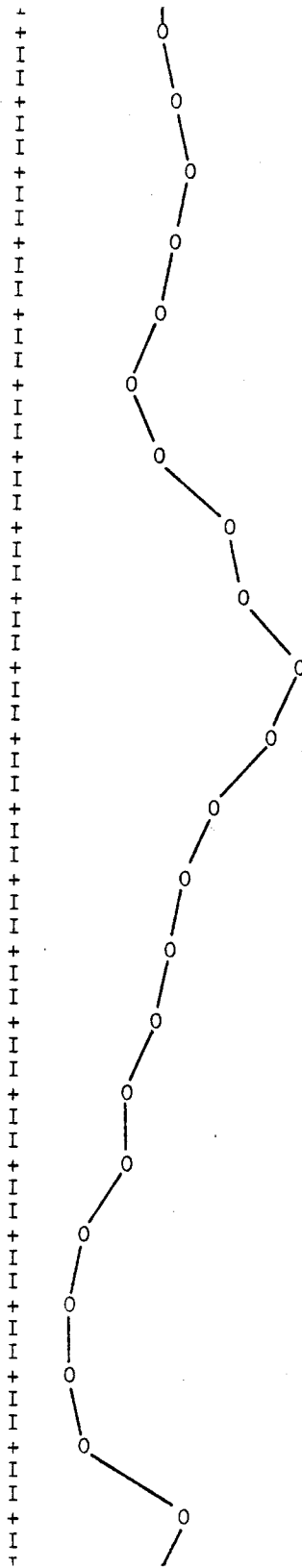
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302 REM STA 1 CUTLER STA 2 HAWAII TO 275S SEATTLE 1200-2500S  
303 REM LINE 1025W OS TO 2500S  
310 DATA -5,2  
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330 DATA -5,0  
340 DATA -5,-3  
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360 DATA -6,0  
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390 DATA -5,-5  
400 DATA -3,-8  
410 DATA 0,0  
420 DATA 2,0  
430 DATA 5,0  
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450 DATA 10,0  
460 DATA 10,0  
470 DATA 11,0  
480 DATA 12,0  
490 DATA 11,0  
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690 DATA 16,0  
700 DATA 15,0  
710 DATA 17,0  
720 DATA 15,0  
730 DATA 11,0  
740 DATA 8,0  
750 DATA 5,0  
760 DATA 5,0  
770 DATA 7,-3  
780 DATA 7,-4  
790 DATA 8,-3  
800 DATA 6,0  
810 DATA 8,-3  
820 DATA 2,-2  
830 DATA 0,-2  
840 DATA 2,-1  
850 DATA -3,0  
860 DATA 3,0  
870 DATA 5,2  
880 DATA 4,0

PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 22/1984  
 LINE NUMBER :1025 W OS TO 2500S  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

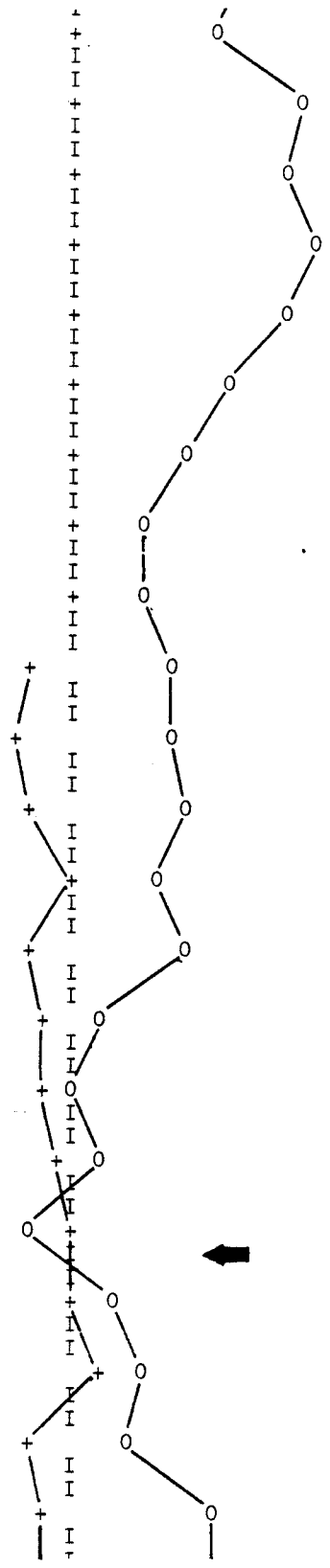
STN 1 IS CUTLER  
 STN 2 IS HAWAII TO 275S SEATTL

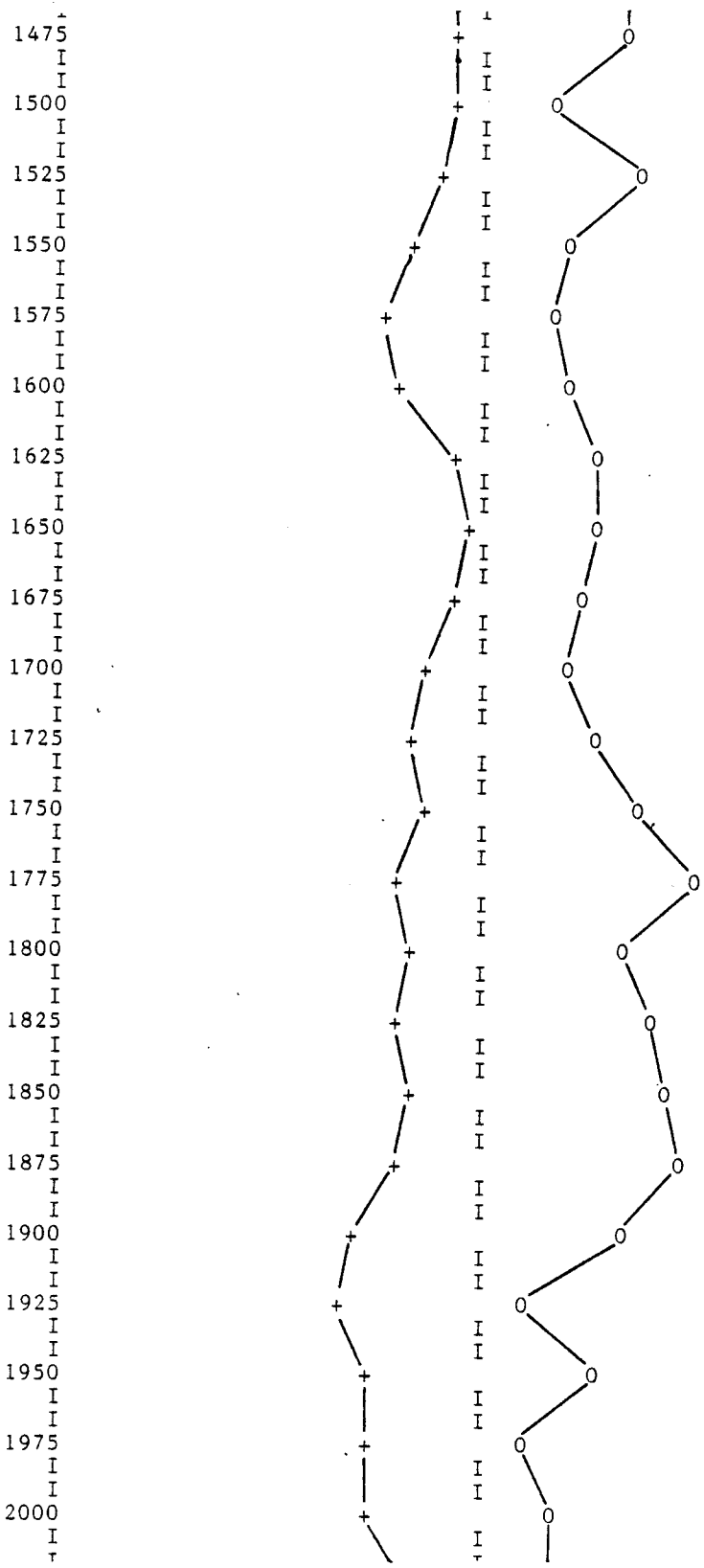


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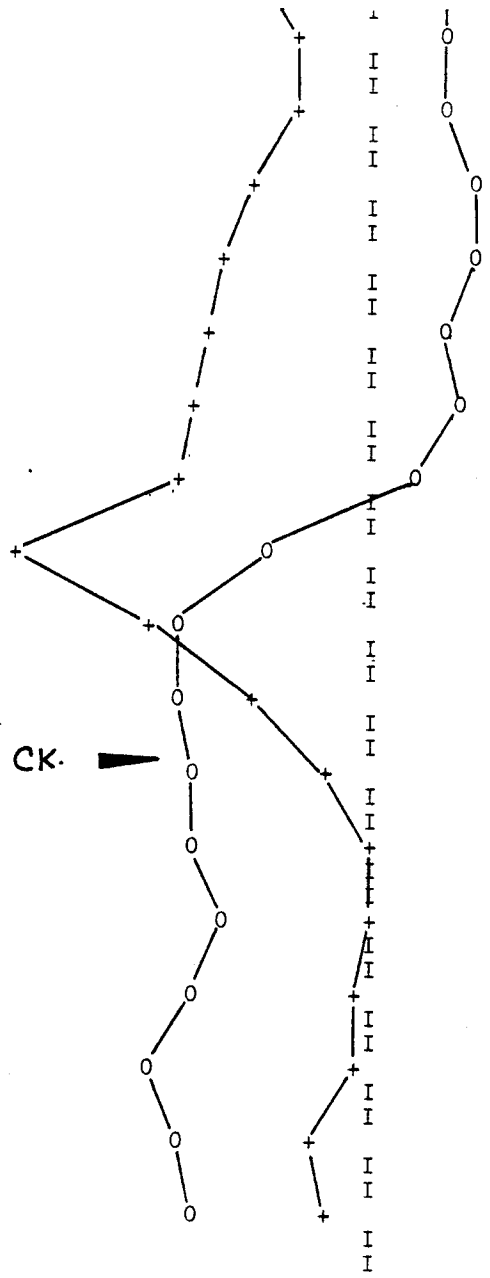


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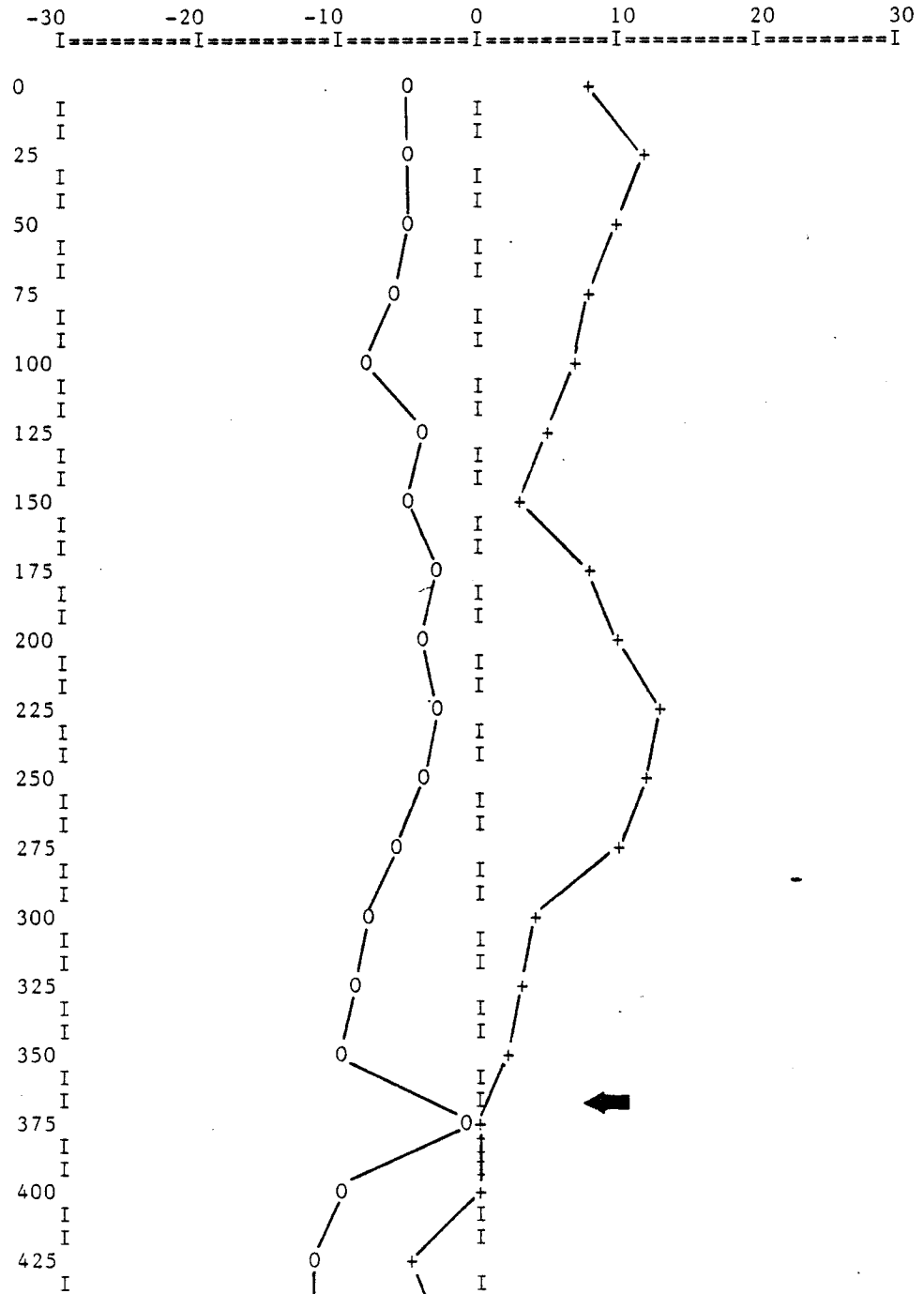
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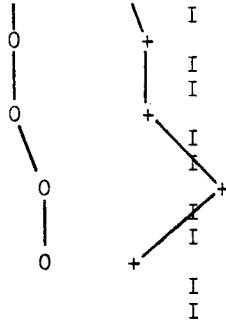
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301 REM MOON PROJECT - OROTEK  
302 REM STN 1 SEATTLE STN 2 HAWAII  
303 REM MOON PROP. OROTEK  
304 REM LINE 1425W 575N TO 25N  
310 DATA -5,8  
320 DATA -5,12  
330 DATA -5,10  
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380 DATA -3,8  
390 DATA -4,10  
400 DATA -3,13  
410 DATA -4,12  
420 DATA -6,10  
430 DATA -8,4  
440 DATA -9,3  
450 DATA -10,2  
460 DATA -1,0  
470 DATA -10,0  
480 DATA -12,-5  
490 DATA -12,-3  
500 DATA -12,-3  
510 DATA -10,2  
520 DATA -10,-4

PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 17/84  
 LINE NUMBER :1425W 575N TO 25N  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

STN 1 IS SEATTLE  
 STN 2 IS HAWAII

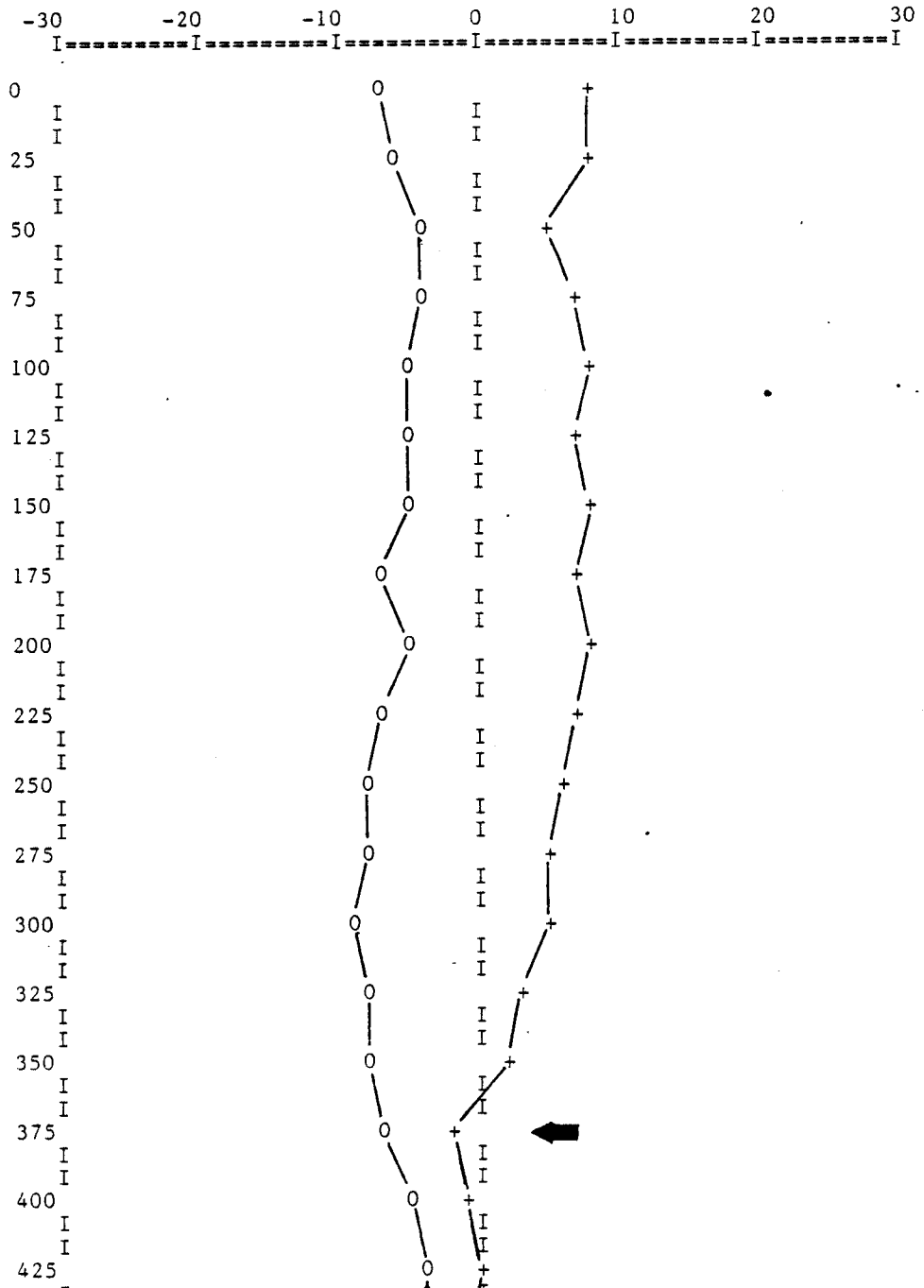


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PROPERTY NAME :MOON  
 FOR CLIENT:OROTEK RESOURCES CORPORATION  
 DATE :AUGUST 20/1984  
 LINE NUMBER :1475W OS TO 2800S  
 RAPITAN VLF - EM PROFILE: DIP ANGLES IN DEGREES

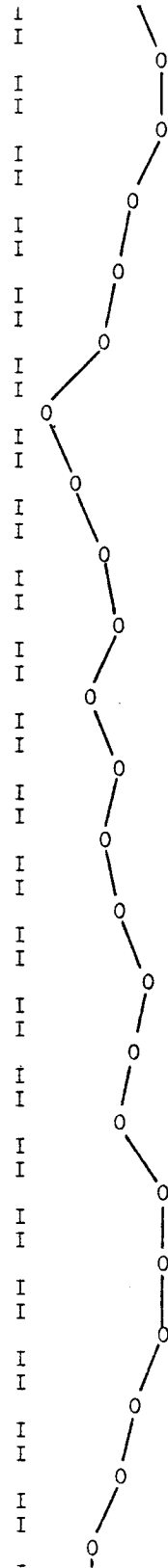
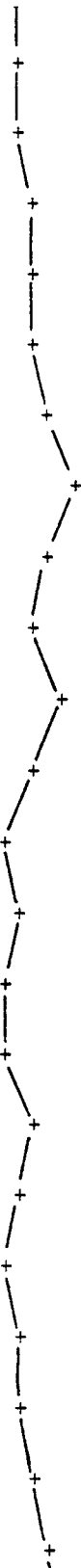
STN 1 IS SEATTLE & CUTLER  
 STN 2 IS HAWAII



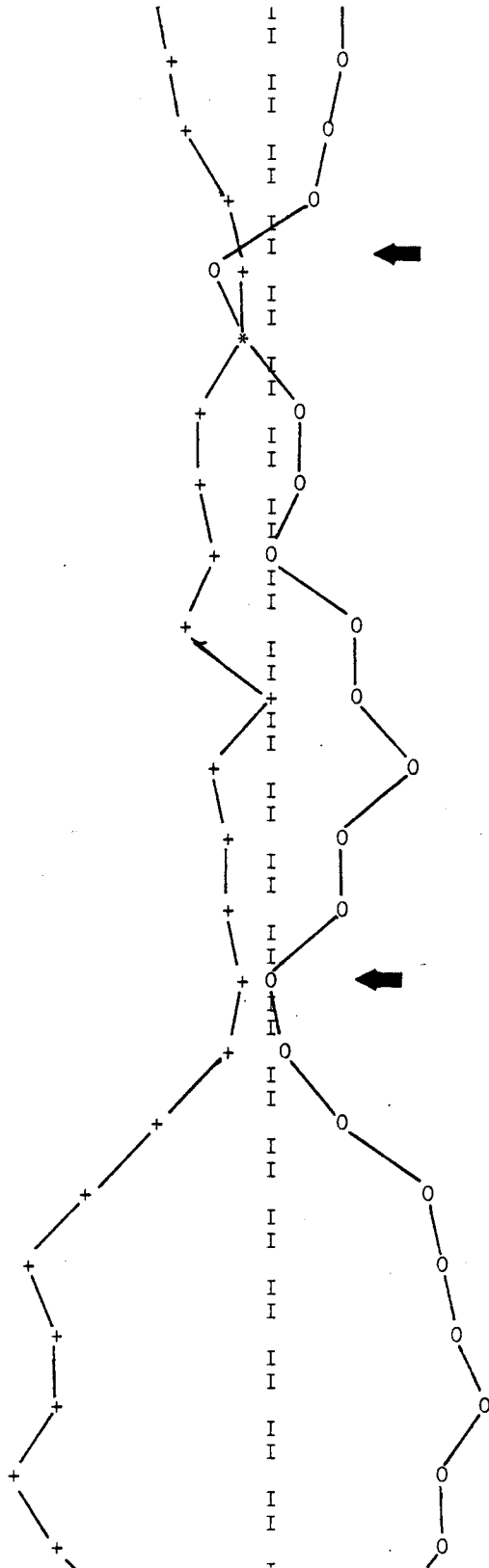


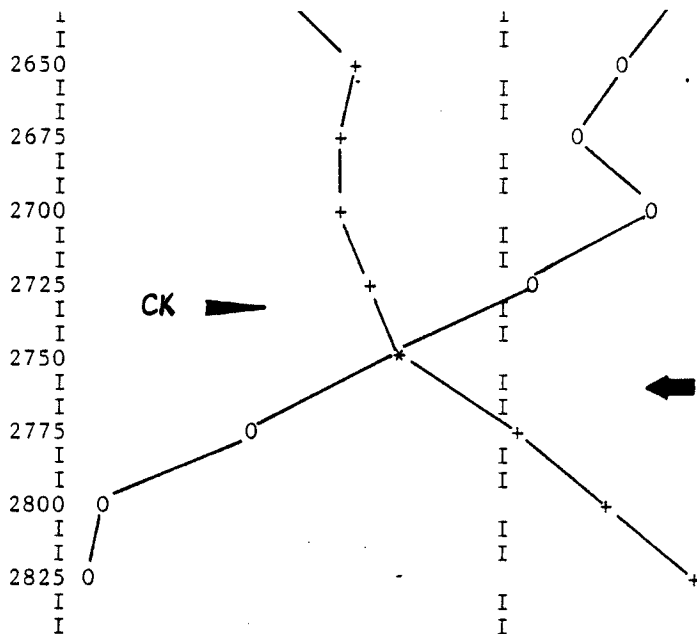


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```

300 REM ENTER DATA: DATA Y1,Y2
301 REM MOON PROJECT - OROTEK
302 REM STA 1 SEATTLE TO 600S THEN CUTLER STA 2 HAWAII
303 REM LINE 1475W OS TO 2800S
310 DATA -7,8
320 DATA -6,8
330 DATA -4,5
340 DATA -4,7
350 DATA -5,8
360 DATA -5,7
370 DATA -5,8
380 DATA -7,7
390 DATA -5,8
400 DATA -7,7
410 DATA -8,6
420 DATA -8,5
430 DATA -9,5
440 DATA -8,3
450 DATA -8,2
460 DATA -7,-2
470 DATA -5,-1
480 DATA -4,0
490 DATA -4,-1
500 DATA -4,-3
510 DATA -5,-2
520 DATA -2,0
530 DATA 0,-1
540 DATA -2,-3
550 DATA -1,-4
560 DATA 1,-5
570 DATA 5,-4
580 DATA 8,-4
590 DATA 7,-5
600 DATA 7,-8
610 DATA 10,-11
620 DATA 13,-14
630 DATA 11,-14
640 DATA 13,-14
650 DATA 15,-13
660 DATA 16,-12

```

070 DATA 17,-14  
680 DATA 18,-17  
690 DATA 20,-19  
700 DATA 20,-20  
710 DATA 22,-22  
720 DATA 19,-19  
730 DATA 15,-17  
740 DATA 12,-15  
750 DATA 16,-18  
760 DATA 18,-19  
770 DATA 15,-17  
780 DATA 12,-16  
790 DATA 12,-15  
800 DATA 12,-14  
810 DATA 10,-13  
820 DATA 11,-15  
830 DATA 13,-15  
840 DATA 9,-15  
850 DATA 6,-15  
860 DATA 6,-14  
870 DATA 11,-14  
880 DATA 8,-15  
890 DATA 8,-11  
900 DATA 6,-10  
910 DATA 10,-11  
920 DATA 8,-10  
930 DATA 10,-10  
940 DATA 10,-10  
950 DATA 8,-9  
960 DATA 7,-9  
970 DATA 6,-9  
980 DATA 2,-8  
990 DATA 4,-6  
1000 DATA 6,-8  
1010 DATA 7,-9  
1020 DATA 5,-7  
1030 DATA 7,-9  
1040 DATA 6,-11  
1050 DATA 7,-10  
1060 DATA 9,-11  
1070 DATA 8,-11  
1080 DATA 7,-9  
1090 DATA 10,-10  
1100 DATA 10,-11  
1110 DATA 10,-10  
1120 DATA 8,-10  
1130 DATA 7,-9  
1140 DATA 5,-8  
1150 DATA 5,-7  
1160 DATA 4,-6  
1170 DATA 3,-3  
1180 DATA -4,-2  
1190 DATA -2,-2  
1200 DATA 2,-5  
1210 DATA 2,-5  
1220 DATA 0,-4  
1230 DATA 6,-6  
1240 DATA 6,0  
1250 DATA 10,-4  
1260 DATA 5,-3  
1270 DATA 5,-3  
1280 DATA 0,-2  
1290 DATA 1,-3  
1300 DATA 5,-8  
1310 DATA 11,-13  
1320 DATA 12,-17  
1330 DATA 12,-15

APPENDIX B

CERTIFICATES OF ANALYSIS



# Chemex Labs Ltd.

212 Brooksbank Ave.  
North Vancouver, B.C.  
Canada V7J 2C1

Analytical Chemists • Geochemists • Registered Assayers

Telephone: (604) 984-0221  
Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415405-001-A  
INVOICE # : I8415405  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm			
MGH 84818-01	201	12	7	0.9	--	--	--
MGH 84818-02	201	8	40	0.1	--	--	--
MGH 84818-03	201	14	85	0.1	--	--	--
MGH 84818-04	201	13	66	0.6	--	--	--
MGH 84818-05	201	16	90	0.4	--	--	--
MGH 84818-06	201	12	55	0.1	--	--	--
MGH 84818-07	201	10	50	0.1	--	--	--
MGH 84818-08	201	15	82	0.1	--	--	--
MGH 84818-09	201	10	52	0.1	--	--	--
MGH 84818-10	201	11	28	0.1	--	--	--
MGH 84818-11	201	18	70	0.4	--	--	--
MGH 84818-12	201	20	58	0.1	--	--	--
MGH 84818-13	201	18	80	0.1	--	--	--
MGH 84818-14	201	17	73	0.1	--	--	--
MGH 84818-15	201	14	75	0.1	--	--	--
MGH 84818-16	201	16	108	0.1	--	--	--
MGH 84818-17	201	16	120	0.1	--	--	--
MGH 84818-18	201	14	103	0.1	--	--	--
MGH 84818-19	201	13	65	0.1	--	--	--
MGH 84818-20	201	8	28	0.1	--	--	--
MGH 84818-21	201	12	50	0.2	--	--	--
MGH 84818-22	201	13	50	0.3	--	--	--
MGH 84818-23	201	13	138	0.1	--	--	--
MGH 84818-24	201	12	135	0.1	--	--	--
MGH 84818-25	201	10	70	0.8	--	--	--
MGH 84818-26	201	8	58	1.6	--	--	--
MGH 84818-27	201	8	82	0.2	--	--	--
MGH 84818-28	201	10	70	1.6	--	--	--
MGH 84818-29	201	11	144	0.3	--	--	--
MGH 84818-30	201	8	82	0.3	--	--	--
MGH 84818-31	201	9	85	0.2	--	--	--
MGH 84818-32	201	9	86	0.2	--	--	--
MGH 84818-33	201	15	88	0.2	--	--	--
MGH 84818-34	201	7	70	0.2	--	--	--
MGH 84818-35	201	11	80	0.1	--	--	--
MGH 84818-36	201	9	92	0.1	--	--	--
MGH 84818-37	201	10	120	0.1	--	--	--
MGH 84818-38	201	9	125	0.1	--	--	--
MGH 84818-39	201	9	137	0.2	--	--	--
MGH 84818-40	201	7	122	0.1	--	--	--



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TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415405-002-A  
INVOICE # : I8415405  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm			
MGH 84818-41	201	9	110	0.1	--	--	--
MGH 84818-42	201	9	110	0.1	--	--	--
MGH 84818-43	201	7	78	0.1	--	--	--
MGH 84818-44	201	12	73	0.1	--	--	--
MGH 84818-45	201	7	55	0.1	--	--	--
MGH 84818-46	201	6	60	0.1	--	--	--
MGH 84818-47	201	8	67	0.1	--	--	--
MGH 84818-48	201	14	75	0.2	--	--	--
MGH 84818-49	201	14	80	0.1	--	--	--
MGH 84818-50	201	17	67	0.1	--	--	--
MGH 84818-51	201	12	85	0.1	--	--	--
MGH 84818-52	201	9	40	0.1	--	--	--
MGH 84818-53	201	8	32	0.1	--	--	--
MGH 84818-54	201	10	50	0.1	--	--	--
MGH 84818-55	201	11	45	0.1	--	--	--
MGH 84818-56	201	9	50	0.1	--	--	--
MGH 84818-57	201	11	53	0.1	--	--	--
MGH 84818-58	201	15	55	0.1	--	--	--
MGH 84818-59	201	7	38	0.1	--	--	--
MGH 84818-60	201	30	115	0.2	--	--	--
MGH 84818-61	201	22	175	0.1	--	--	--
MGH 84818-62	201	16	72	0.1	--	--	--
MGH 84818-63	201	17	88	0.1	--	--	--
MGH 84818-64	201	18	93	0.1	--	--	--
MGH 84818-65	201	28	90	0.2	--	--	--
MGH 84818-66	201	18	94	0.1	--	--	--
MGH 84821-67	201	13	65	0.1	--	--	--
MGH 84821-68	201	8	50	0.1	--	--	--
MGH 84821-69	201	12	60	0.1	--	--	--
MGH 84821-70	201	19	63	0.1	--	--	--
MGH 84821-71	201	12	93	0.1	--	--	--
MGH 84821-72	201	8	83	0.1	--	--	--
MGH 84821-73	201	20	118	0.2	--	--	--
MGH 84821-74	201	12	82	0.1	--	--	--
MGH 84821-75	201	12	125	0.1	--	--	--
MGH 84821-76	201	8	83	0.1	--	--	--
MGH 84821-77	201	8	80	0.1	--	--	--
MGH 84821-78	201	10	118	0.1	--	--	--
MGH 84821-79	201	11	95	0.1	--	--	--
MGH 84821-80	201	11	138	0.1	--	--	--

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3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415405-003-A  
INVOICE # : I8415405  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm			
MGH 84821-81	201	7	126	0.1	--	--	--
MGH 84821-82	201	10	95	0.1	--	--	--
MGH 84821-83	201	8	105	0.1	--	--	--
MGH 84821-84	201	7	72	0.1	--	--	--
MGH 84821-85	201	6	72	0.1	--	--	--
MGH 84821-86	201	7	113	0.1	--	--	--
MGH 84821-87	201	11	148	0.6	--	--	--
MGH 84821-88	201	13	128	0.2	--	--	--
MGH 84821-89	201	11	73	0.2	--	--	--
MGH 84821-90	201	10	68	0.1	--	--	--
MGH 84821-91	201	12	54	0.2	--	--	--
MGH 84821-92	201	12	57	0.1	--	--	--
MGH 84821-93	201	13	83	0.2	--	--	--
MGH 84821-94	201	14	105	0.3	--	--	--
MGH 84821-95	201	8	40	0.1	--	--	--
MGH 84821-96	201	17	75	0.1	--	--	--
MGH 84821-97	201	19	135	0.3	--	--	--
MGH 84821-98	201	16	158	0.4	--	--	--
MGH 84821-99	201	20	158	0.5	--	--	--
MGH 84821-100	201	18	90	0.1	--	--	--
MGH 84821-101	201	20	65	0.5	--	--	--
MGH 84821-102	201	13	48	0.1	--	--	--
MGH 84821-103	201	10	30	0.1	--	--	--
MGH 84821-104	201	12	50	0.1	--	--	--
MGH 84821-105	201	11	65	0.1	--	--	--
MGH 84821-106	201	15	40	0.2	--	--	--
MGH 84821-107	201	16	48	0.1	--	--	--
MGH 84821-108	201	15	47	0.1	--	--	--
MGH 84821-109	201	21	248	1.1	--	--	--
MGH 84821-110	201	12	108	0.1	--	--	--
MGH 84821-111	201	19	75	0.1	--	--	--
MGH 84821-112	201	13	82	0.2	--	--	--
MGH 84821-113	201	15	82	0.3	--	--	--
MGH 84821-114	201	16	90	0.4	--	--	--
MGH 84821-115	201	13	80	0.5	--	--	--
MGH 84821-116	201	9	82	1.0	--	--	--
MGH 84821-117	203	8	35	0.1	--	--	--
MPC 84817-01	201	19	106	0.1	--	--	--
MPC 84817-02	201	20	183	0.1	--	--	--
MPC 84817-03	201	32	130	0.1	--	--	--

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3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415405-004-A  
INVOICE # : I8415405  
DATE : 4-SEP-84  
P.C. # : NONE  
M #1

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm			
MPC 84817-04	201	36	220	0.3	--	--	--
MPC 84817-05	201	18	180	0.1	--	--	--
MPC 84817-06	201	22	160	0.1	--	--	--
MPC 84817-07	201	16	112	0.1	--	--	--
MPC 84817-08	201	15	118	0.1	--	--	--
MPC 84817-09	201	13	115	0.1	--	--	--
MPC 84817-10	201	22	153	0.1	--	--	--
MPC 84817-11	201	10	200	0.1	--	--	--
MPC 84817-12	201	14	100	0.1	--	--	--
MPC 84817-13	201	16	185	0.1	--	--	--
MPC 84817-14	201	24	93	0.2	--	--	--
MPC 84817-15	201	14	107	0.1	--	--	--
MPC 84817-16	201	10	145	0.1	--	--	--
MPC 84817-17	201	13	170	0.1	--	--	--
MPC 84817-18	201	25	285	0.2	--	--	--
MPC 84817-19	201	20	205	0.1	--	--	--
MPC 84817-20	201	20	85	0.1	--	--	--
MPC 84817-21	201	10	65	0.1	--	--	--
MPC 84817-22	201	15	70	0.1	--	--	--
MPC 84817-23	201	10	47	0.1	--	--	--
MPC 84817-24	201	21	85	0.1	--	--	--
MPC 84817-25	201	19	92	0.1	--	--	--
MPC 84817-26	201	8	62	0.1	--	--	--
MPC 84817-27	201	27	128	0.2	--	--	--
MPC 84817-28	201	13	87	0.1	--	--	--
MPC 84817-29	201	14	63	0.1	--	--	--
MPC 84817-30	201	9	45	0.5	--	--	--
MPC 84817-31	201	13	93	0.1	--	--	--
MPC 84817-32	201	20	74	0.1	--	--	--
MPC 84817-33	201	15	60	0.1	--	--	--
MPC 84817-34	201	11	60	0.1	--	--	--
MPC 84817-35	201	10	110	0.3	--	--	--
MPC 84817-36	201	14	63	0.1	--	--	--
MPC 84817-37	201	19	50	0.7	--	--	--
MPC 84817-38	201	11	36	0.1	--	--	--
MPC 84817-39	201	9	40	0.1	--	--	--
MPC 84817-40	201	13	63	0.1	--	--	--
MPC 84817-41	201	14	105	0.1	--	--	--
MPC 84817-42	201	20	110	0.8	--	--	--
MPC 84817-43	201	16	78	0.1	--	--	--

*Hart Buchler*

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## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415405-005-A  
INVOICE # : I8415405  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Pb ppm	Zn ppm	Ag ppm			
MPC 84817-44	201	20	105	0.1	--	--	--
MPC 84817-45	201	12	35	0.1	--	--	--
MPC 84817-46	201	13	35	0.1	--	--	--
MPC 84817-47	201	10	42	0.1	--	--	--
MPC 84817-48	201	12	50	0.1	--	--	--
MPC 84817-49	201	17	69	0.1	--	--	--
MPC 84817-50	201	9	38	0.1	--	--	--
MPC 84817-51	201	18	105	0.1	--	--	--
MPC 84818-52	201	19	77	0.1	--	--	--
MPC 84818-53	201	21	235	0.1	--	--	--
MPC 84818-54	201	19	168	0.1	--	--	--
MPC 84818-55	201	18	88	0.1	--	--	--
MPC 84818-56	201	14	62	0.1	--	--	--
MPC 84818-57	201	14	75	0.1	--	--	--
MPC 84818-58	201	8	70	0.2	--	--	--
MPC 84818-59	201	11	72	0.1	--	--	--
MPC 84818-60	201	10	73	0.1	--	--	--
MPC 84818-61	201	16	76	0.3	--	--	--
MPC 84818-62	201	15	60	0.1	--	--	--
MPC 84818-63	201	24	135	0.7	--	--	--
MPC 84818-64	201	10	78	0.3	--	--	--
MPC 84818-65	201	21	80	0.2	--	--	--
MPC 84818-66	201	18	258	0.1	--	--	--
MPC 84818-67	201	16	230	0.1	--	--	--
MPC 84818-68	201	18	118	0.1	--	--	--
MPC 84818-69	201	25	170	0.5	--	--	--
MPC 84818-70	201	32	258	0.4	--	--	--
MPC 84818-71	201	14	80	0.1	--	--	--
MPC 84818-72	201	16	110	0.3	--	--	--
MPC 84818-73	201	13	60	0.1	--	--	--
MPC 84818-74	201	11	90	0.2	--	--	--
MPC 84818-75	201	15	118	0.2	--	--	--
MPC 84818-76	201	12	95	0.2	--	--	--
MPC 84818-77	201	11	168	0.2	--	--	--
MPC 84818-78	201	9	77	0.1	--	--	--
MPC 84818-79	201	12	88	0.2	--	--	--
MPC 84818-80	201	12	123	0.3	--	--	--
MPC 84818-81	201	14	168	0.3	--	--	--
MPC 84818-82	201	8	105	0.1	--	--	--
MPC 84818-83	201	9	155	0.1	--	--	--

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*Hart Buchler*





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Canada V7J 2C1

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Telex: 043-52597

## CERTIFICATE OF ANALYSIS

TC : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415406-001-A  
INVOICE # : 18415406  
DATE : 4-SEP-84  
P.G. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 84818-84	201	--	--	12	163	0.2	--
MPC 84818-85	201	--	--	9	82	0.2	--
MPC 84818-86	201	--	--	10	88	0.2	--
MPC 84818-87	201	--	--	6	118	0.3	--
MPC 84818-88	201	--	--	10	185	0.2	--
MPC 84818-89	201	--	--	6	58	0.2	--
MPC 84818-90	201	--	--	15	85	0.5	--
MPC 84818-91	201	--	--	14	88	1.2	--
MPC 84818-92	201	--	--	21	185	1.1	--
MPC 84818-93	201	--	--	10	155	0.5	--
MPC 84818-94	201	--	--	12	82	0.3	--
MPC 84818-95	201	--	--	24	90	0.6	--
MPC 84818-96	201	--	--	12	93	0.2	--
MPC 84818-97	201	--	--	15	62	0.1	--
MPC 84818-98	201	--	--	11	68	0.1	--
MPC 84818-99	201	--	--	17	90	0.4	--
MPC 84818-100	201	--	--	11	122	0.3	--
MPC 84818-101	201	--	--	11	70	0.2	--
MPC 84818-102	201	--	--	7	58	0.3	--
MPC 84818-103	201	--	--	9	58	0.2	--
MPC 84818-104	201	--	--	11	73	0.1	--
MPC 84818-105	201	--	--	12	104	0.3	--
MPC 84818-106	201	--	--	11	50	0.2	--
MPC 84818-107	201	--	--	14	95	0.1	--
MPC 84818-108	201	--	--	17	205	0.2	--
MPC 84818-109	201	--	--	17	160	0.4	--
MPC 84818-110	201	--	--	13	150	0.3	--
MPC 84818-111	201	--	--	16	70	0.2	--
MPC 84818-112	201	--	--	14	70	0.1	--
MPC 84818-113	201	--	--	15	83	0.2	--
MPC 84818-114	201	--	--	21	115	0.5	--
MPC 84818-115	201	--	--	25	105	0.2	--
MPC 84819-116	201	--	--	11	260	0.1	--
MPC 84819-117	201	--	--	14	113	0.2	--
MPC 84819-118	201	--	--	12	56	0.2	--
MPC 84819-119	201	--	--	9	85	0.1	--
MPC 84819-120	201	--	--	10	78	0.2	--
MPC 84819-121	201	--	--	11	115	0.1	--
MPC 84819-122	201	--	--	12	84	0.1	--
MPC 84819-123	201	--	--	13	90	0.2	--

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Canada V7J 2C1

Telephone: (604) 984-0221  
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## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415406-002-A  
INVOICE # : I8415406  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 84819-124	201	--	--	9	112	0.1	--
MPC 84819-125	201	--	--	12	75	0.1	--
MPC 84819-126	201	--	--	10	135	0.1	--
MPC 84819-127	201	--	--	12	70	0.1	--
MPC 84819-128	201	--	--	11	92	0.1	--
MPC 84819-129	201	--	--	10	152	0.2	--
MPC 84819-130	201	--	--	11	85	0.1	--
MPC 84819-131	201	--	--	12	103	0.1	--
MPC 84819-132	201	--	--	9	90	0.1	--
MPC 84819-133	201	--	--	12	85	0.2	--
MPC 84819-134	201	--	--	10	58	0.1	--
MPC 84819-135	201	--	--	15	70	0.2	--
MPC 84819-136	201	--	--	19	60	0.4	--
MPC 84819-137	201	--	--	13	57	0.1	--
MPC 84819-138	201	--	--	14	75	0.1	--
MPC 84819-139	201	--	--	14	50	0.1	--
MPC 84819-140	201	--	--	18	75	0.1	--
MPC 84819-141	201	--	--	9	47	0.1	--
MPC 84819-142	201	--	--	13	49	0.1	--
MPC 84819-143	201	--	--	14	63	0.1	--
MPC 84819-144	201	--	--	18	75	0.1	--
MPC 84819-145	201	--	--	18	125	0.1	--
MPC 84819-146	201	--	--	13	185	0.1	--
MPC 84819-147	201	--	--	18	102	0.1	--
MPC 84819-148	201	--	--	15	87	0.2	--
MPC 84819-149	201	--	--	16	105	0.2	--
MPC 84819-150	201	--	--	20	198	0.4	--
MPC 84819-151	201	--	--	18	208	0.1	--
MPC 84819-152	201	--	--	21	210	0.2	--
MPC 84819-153	201	--	--	15	60	0.1	--
MPC 84819-154	201	--	--	14	58	0.2	--
MPC 84819-155	201	--	--	21	118	0.2	--
MPC 84819-156	201	--	--	14	163	0.9	--
MPC 84819-157	201	--	--	10	60	1.0	--
MPC 84819-158	201	--	--	22	128	0.6	--
MPC 84819-159	201	--	--	13	70	0.2	--
MPC 84819-160	201	--	--	17	103	0.5	--
MPC 84819-161	201	--	--	27	150	1.5	--
MPC 84819-162	201	--	--	14	132	1.2	--
MPC 84819-163	201	--	--	26	105	0.6	--



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## CERTIFICATE OF ANALYSIS

TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415406-003-A  
INVOICE # : I8415406  
DATE : 4-SEP-84  
P.C. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 84819-164	201	--	--	15	85	0.2	--
MPC 84819-165	201	--	--	16	82	0.2	--
MPC 84819-166	201	--	--	29	110	0.3	--
MPC 84819-167	201	--	--	28	130	0.4	--
MPC 84819-168	201	--	--	20	165	0.7	--
MPC 84819-169	201	--	--	20	92	0.2	--
MPC 84819-170	203	--	--	10	58	0.4	--
MPC 84819-171	201	--	--	21	88	0.3	--
MPC 84819-172	203	--	--	5	30	0.7	--
MPC 84819-173	201	--	--	10	72	0.5	--
MPC 84819-174	201	--	--	11	73	0.7	--
MPC 84819-175	201	--	--	13	82	0.6	--
MPC 84820-177	201	--	--	15	64	0.4	--
MPC 84820-178	201	--	--	11	36	0.1	--
MPC 84820-179	201	--	--	13	40	0.5	--
MPC 84820-180	201	--	--	9	62	0.1	--
MPC 84820-181	201	--	--	13	72	0.3	--
MPC 84820-182	201	--	--	12	68	0.3	--
MPC 84820-183	201	--	--	8	67	0.2	--
MPC 84820-184	201	--	--	12	60	0.2	--
MPC 84820-185	201	--	--	10	54	0.2	--
MPC 84820-186	201	--	--	9	95	0.2	--
MPC 84820-187	201	--	--	8	50	0.2	--
MPC 84820-188	201	--	--	7	100	0.2	--
MPC 84820-189	201	--	--	9	108	0.2	--
MPC 84820-190	201	--	--	11	85	0.2	--
MPC 84820-191	201	--	--	12	205	0.3	--
MPC 84820-192	201	--	--	12	60	0.2	--
MPC 84820-193	201	--	--	12	170	0.2	--
MPC 84820-194	201	--	--	12	165	0.6	--
MPC 84820-195	201	--	--	7	95	0.3	--
MPC 84820-196	201	--	--	5	90	0.2	--
MPC 84820-197	201	--	--	2	15	0.1	--
MPC 84820-198	201	--	--	9	85	0.2	--
MPC 84820-199	201	--	--	8	70	0.3	--
MPC 84820-200	201	--	--	12	78	0.5	--
MPC 84820-201	201	--	--	12	102	0.5	--
MPC 84820-202	201	--	--	13	100	1.1	--
MPC 84820-203	201	--	--	13	58	1.0	--
MPC 84820-204	201	--	--	12	125	0.5	--

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TO : CHRISTOPHER, PETER & ASSOCIATES INC.

3707 WEST 34TH AVE.,  
VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415406-004-A  
INVOICE # : I8415406  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 84820-205	201	--	--	7	60	0.4	--
MPC 84820-206	201	--	--	13	60	0.2	--
MPC 84820-207	201	--	--	10	53	0.3	--
MPC 84820-208	201	--	--	9	48	0.1	--
MPC 84820-209	201	--	--	3	12	0.5	--
MPC 84820-210	201	--	--	17	140	0.2	--
MPC 84820-211	201	--	--	13	130	0.4	--
MPC 84820-212	201	--	--	7	68	0.1	--
MPC 84820-213	201	--	--	16	110	0.1	--
MPC 84820-214	201	--	--	7	45	0.1	--
MPC 84820-215	201	--	--	13	78	0.1	--
MPC 84820-216	201	--	--	15	57	0.4	--
MPC 84820-217	201	--	--	14	60	0.2	--
MPC 84820-218	201	--	--	13	38	1.4	--
MPC 84820-219	201	--	--	23	92	0.1	--
MPC 84820-220	201	--	--	22	98	0.2	--
MPC 84820-221	201	--	--	37	270	0.6	--
MPC 84820-222	201	--	--	24	100	0.3	--
MPC 84820-223	201	--	--	16	38	0.2	--
MPC 84820-224	201	--	--	13	110	0.4	--
MPC 84820-225	201	--	--	17	72	0.6	--
MPC 84820-226	201	--	--	9	85	0.2	--
MPC 84820-227	201	--	--	4	37	0.9	--
MPC 84820-228	203	--	--	3	60	0.2	--
MPC 84820-229	201	--	--	11	60	0.4	--
MPC 84820-230	201	--	--	11	90	1.7	--
MPC 84820-231	201	--	--	9	83	1.3	--
MPC 84820-232	203	--	--	6	60	0.5	--
MPC 84821-233	201	--	--	15	92	0.2	--
MPC 84821-234	201	--	--	16	305	0.5	--
MPC 84821-235	201	--	--	13	125	0.3	--
MPC 84821-236	201	--	--	24	108	0.2	--
MPC 84821-237	201	--	--	10	88	0.5	--
MPC 84821-238	201	--	--	17	170	0.2	--
MPC 84821-239	201	--	--	11	65	0.1	--
MPC 84821-240	201	--	--	13	85	0.2	--
MPC 84821-241	201	--	--	14	133	0.2	--
MPC 84821-242	201	--	--	10	48	0.1	--
MPC 84821-243	201	--	--	11	60	0.1	--
MPC 84821-244	201	--	--	15	75	0.1	--

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VANCOUVER, B.C.  
V6N 2K9

CERT. # : A8415406-005-A  
INVOICE # : I8415406  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 84821-245	201	--	--	11	127	0.1	--
MPC 84821-246	201	--	--	15	64	0.1	--
MPC 84821-247	201	--	--	13	138	0.2	--
MPC 84821-248	201	--	--	12	98	0.3	--
MPC 84821-249	201	--	--	13	65	0.1	--
MPC 84821-250	201	--	--	14	48	0.1	--
MPC 84821-251	201	--	--	15	52	0.3	--
MPC 84821-252	201	--	--	15	120	0.3	--
MPC 84821-253	201	--	--	11	75	0.2	--
MPC 84821-254	201	--	--	19	123	0.6	--
MPC 84821-255	201	--	--	15	53	0.1	--
MPC 84821-256	201	--	--	14	62	0.1	--
MPC 84821-257	201	--	--	15	103	0.1	--
MPC 84821-258	201	--	--	16	85	0.3	--
MPC 84821-259	201	--	--	13	145	0.1	--
MPC 84821-260	201	--	--	16	83	0.1	--
MPC 84821-261	201	--	--	14	67	0.1	--
MPC 84821-262	201	--	--	14	107	0.2	--
MPC 84821-263	201	--	--	12	50	0.1	--
MPC 84821-264	201	--	--	18	110	0.2	--
MPC 84821-265	201	--	--	17	87	0.1	--
MPC 84821-266	203	--	--	7	24	0.1	--
MPC 84821-267	201	--	--	24	227	0.1	--
MPC 84821-268	201	--	--	19	335	0.5	--
MPC 84821-269	201	--	--	17	278	0.2	--
MPC 84821-270	201	--	--	27	215	0.5	--
MPC 84821-271	201	--	--	30	98	0.1	--
MPC 84821-272	201	--	--	9	158	0.3	--
MPC 84821-273	201	--	--	15	80	0.2	--
MPC 84821-274	201	--	--	18	85	0.4	--
MPC 84821-275	201	--	--	15	185	0.4	--
MPC 84821-276	201	--	--	10	110	0.2	--
MPC 84821-277	201	--	--	16	50	0.1	--
MPC 84821-278	201	--	--	24	94	0.2	--
MPC 84821-279	201	--	--	17	74	0.1	--
MPC 84821-280	201	--	--	14	58	0.1	--
MPC 84821-281	201	--	--	19	155	0.1	--
MPC 84821-282	201	--	--	20	145	0.2	--
MPC 112A	201	14	1	10	146	0.2	--
MPC 230A	201	20	1	7	98	0.3	--

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V6N 2K9

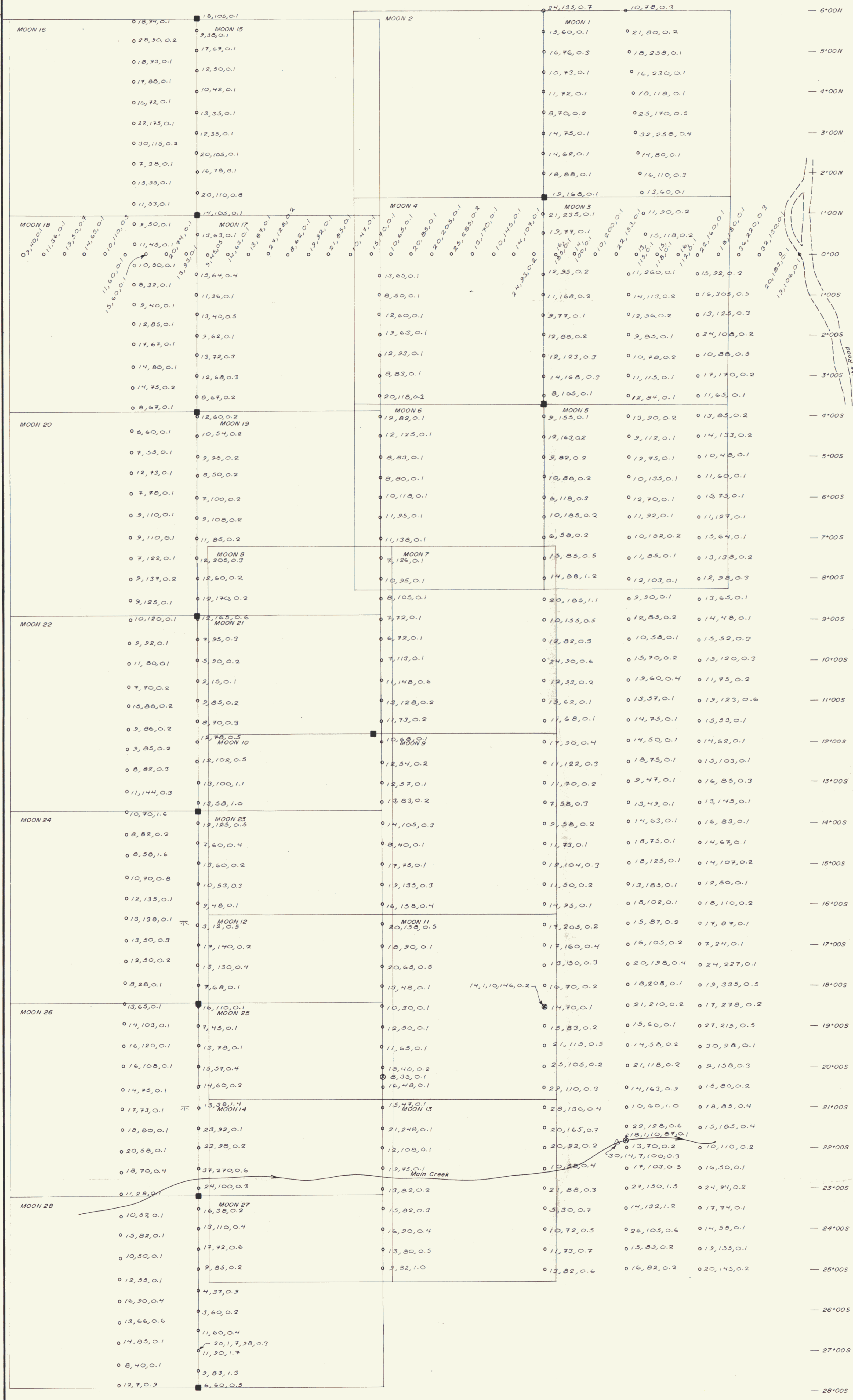
CERT. # : A8415406-006-A  
INVOICE # : I8415406  
DATE : 4-SEP-84  
P.O. # : NONE  
M #1

Sample description	Prep code	Cu ppm	Mo ppm	Pb ppm	Zn ppm	Ag ppm	
MPC 8489-176	203	18	1	10	87	0.1	--



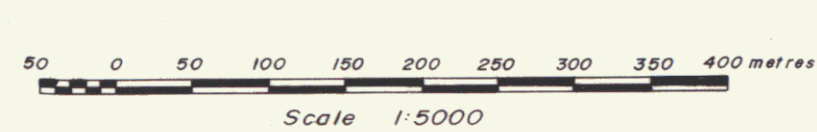
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- LEGEND**
- 9,110,0.1 Soil sample  
ppm Pb, ppm Zn, ppm Ag
  - ⊗ 12,110,0.7,0.1 Soil sample  
ppm Cu, ppm Mo, ppm Pb,  
ppm Zn, ppm Ag
  - △ 30,14,7,100,0.3 Rock sample  
ppm Cu, ppm Mo, ppm Pb,  
ppm Zn, ppm Ag
  - | ○ | ○ Soil & geophysical line  
showing 25m stations
  - Claim post & line
  - ≡ Swamp
  - Creek
  - - - Road

18°00'W 17°00'W 16°00'W 15°00'W 14°00'W 13°00'W 12°00'W 11°00'W 10°00'W 9°00'W 8°00'W 7°00'W 6°00'W 5°00'W 4°00'W 3°00'W 2°00'W 1°00'W 0°00'W



**ORTEK RESOURCES CORP.**

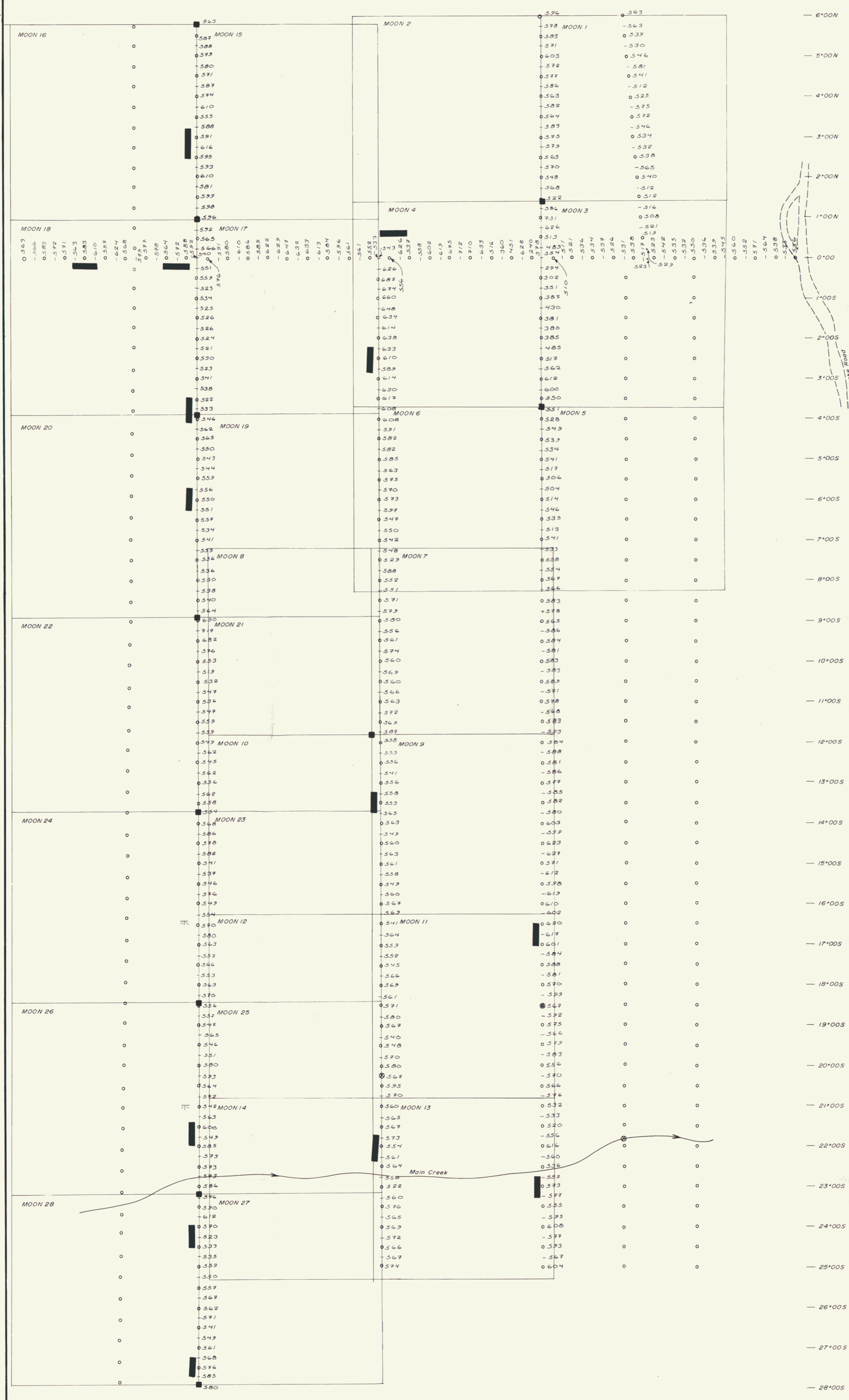
**Geochemical Results**

MOON CLAIMS  
Tootsee River Property

091571

September, 1984 MAP 2

P.A. Christopher & Associates Inc.



**LEGEND**

- Soil sample
- ⊗ Silt sample
- △ Rock sample
- | ○ | ○ Soil & geophysical line showing 25m stations
- Claim post & line
- ≡ Swamp
- ~ Creek
- - - Road

*Note: Instrument reading less 58,000 gammas*

■ VLF-EM anomaly

OROTEK RESOURCES CORP.

**Magnetic Survey & VLF-EM Anomalies**

MOON CLAIMS  
Tootsee River Property

091571

September, 1984

P.A. Christopher & Associates Inc.

PROFESSIONAL ENGINEER

MAP 3

