| | | |
|---|---|---|
| MAP NO.: | ASSESSMENT REPORT X | DOCUMENT NO: 092820 |
| | PROSPECTUS | MINING DISTRICT: Watson Lake |
| 105 F 8, 9 | CONFIDENTIAL X | TYPE OF WORK: Geological, Geochemical, |
| | OPEN FILE | Geophysical |

REPORT FILED UNDER: Mountain Province Mining Inc.

DATE PERFORMED: Sept. 8 to Oct. 22, 1989 DATE FILED: March 9, 1990

LOCATION: LAT.: 61o29'N to 61o37'N AREA: Ketza River

LONG.: 132o19'W to 132o27'W VALUE $: 61,000.00

CLAIM NAME & NO.: EVE 1-138 YA99622-759; PS 1-12 YB00978-989; WHITE 1-123 YA99896-YB00019; WHYTE 1-24 YB11518-535, YB10202-207

WORK DONE BY: C.G. Verley (Amerlin Exploration Services Ltd.)

WORK DONE FOR: Mountain Province Mining Inc.

DATE TO GOOD STANDING:

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| | |

REMARKS: # 86, 116, 143 EROS, WHITE, WHITE WEST An access road 12.9 km long was built to the southern claims. IP and magnetometer surveys were done, and trenches were excavated in the East, Lake an West Zones. Some infill soil samples were taken. Gold was found in sulphides at the East Zone (0.356 oz/t across 2.1 m), and in oxides at the West Zone (0.173 oz/t across 1.0 m). Silver-lead veins occur on the Lake Zone. The North Zone is a strong Ag-Pb-Zn soil anomaly where an IP anomaly seems to define the shale/volcanic contact.

# GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE EVE, PS, WHITE AND WHYTE CLAIMS

Watson Lake Mining District, Y.T.
NTS 105F/8,9
(61$^0$29' to 61$^0$37'N, 132$^0$19' to 132$^0$27'W)

for


MOUNTAIN PROVINCE MINING INC.
304 - 850 Burrard Street
Vancouver, B.C. V6Z 2J1
(604)682-4787





by


CARL G. VERLEY, B.Sc., Geologist
Amerlin Exploration Services Ltd.
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Vancouver, B.C. V6B 3H7
(604)689-1868


February 1990

CLAIMS: EVE 1-138, PS 1-12, WHITE 1-123 AND WHYTE 1-24.
LOCATION: 45 Km(28 Mi) south of Ross River.
DATE: September 8 to October 22, 1989.


D92820

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 $ 6,000.00 .

D A Emond

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

# TABLE OF CONTENTS


Page

SUMMARY. . . . . .2

RECOMMENDATIONS. . . . . .4

INTRODUCTION. . . . . 5
Location. . . . . .5
Access. . . . . .6
History . . . . . .6
Current program . . . . . .6

PROPERTY. . . . . 8

GEOLOGY. . . . . 10
Regional. . . . . 10
Property. . . . . 10

MINERALIZATION. . . . . .16
Gold and Silver. . . . . .16
Silver, lead and zinc. . . . . .22
Niobium and rare earth elements. . . . . .24

GEOCHEMISTRY. . . . . .18
Soils over Lower Cambrian strata . . . . . .27
Soils over Mississippian formations. . . . . .28

GEOPHYSICS. . . . . .29
Magnetometer Survey. . . . . .29
Induced Polarization Survey. . . . . .30

CONCLUSIONS . . . . . .32

REFERENCES. . . . . .23

APPENDICES: A. Assay and Analytical Data
B. Geophysical Report
C. Personnel
D. Writer's Certificate

## Figures


| Figure: | | Page |
|---|---|---|
| 1 | Property Location Map. | .1 |
| 2 | Claim Map. | .9 |
| 3 | Generalized Stratigraphic Section | .11 |
| 4 | Structural Cross-sections: West and Lake Zones. | .13 |
| 5 | North Zone: Geology. | 23 |
| 6 | Plan and Profile, Trench T-1 | Appendix A |
| 7 | Plan and Profile, Trench T-8 | Appendix A |
| 8 | Plan and Profile, Trench T-10. | Appendix A |
| 9 | Plan and Profile, Trench T-11. | Appendix A |
| 10 | Plan and Profile, Trench T-12. | Appendix A |
| 11 | Plan and Profile, Trench T-13. | Appendix A |
| 12 | Plan and Profile, Trench T-14. | Appendix A |
| 13 | Statistical Parameters, Two Population Model | Appendix A |
| 14 | Probability Plots of Au & Ag, North Zone | Appendix A |
| 15 | Probability Plots of Pb & Zn, North Zone | Appendix A |
| 16 | North Zone: Au and Ag Soil Geochemistry. | Appendix A |
| 17 | North Zone: Pb and Zn Soil Geochemistry. | Appendix A |
| 18 | IP Pseudosection West Zone Line 2000E. | Appendix B |
| 19 | IP Pseudosection West Zone Line 2100E. | Appendix B |
| 20 | IP Pseudosection West Zone Line 2200E. | Appendix B |
| 21 | IP Pseudosection West Zone Line 2300E. | Appendix B |
| 22 | IP Pseudosection West Zone Line 2400E. | Appendix B |
| 23 | IP Pseudosection Lake Zone Line 2900E. | Appendix B |
| 24 | IP Pseudosection Lake Zone Line 3000E. | Appendix B |
| 25 | IP Pseudosection Lake Zone Line 3100E. | Appendix B |
| 26 | IP Pseudosection Lake Zone Line 3450E. | Appendix B |
| 27 | IP Pseudosection North Zone Line L1. | Appendix B |
| 28 | IP Pseudosection North Zone Line L2. | Appendix B |
| 29 | IP Pseudosection North Zone Line L3. | Appendix B |
| 30 | IP Pseudosection North Zone Line L4. | Appendix B |
| 31 | Plan of Chargeability at n=1, North Zone | Appendix B |
| 32 | Plan of Chargeability at n=2, North Zone. | Appendix B |
| 33 | Plan of Resistivity at n=1, North Zone. | Appendix B |
| 34 | Plan of Resistivity at n=2, North Zone. | Appendix B |


## Tables


| Table: | | |
|---|---|---|
| 1 | Claims. | 8 |
| 2 | Production Records, Selected U.S. Manto-Chimney Deposits. | 16 |
| 3 | Trench Data | .20 |
| 4 | Interpretation of Geochemical Data. | .27 |

## Plates

Plates: in pockets
1 Compilation Map Eve and White Claims. . . . . "
2 Compilation Map: Main Grid, White Claims. . . . . "
3 Soil Geochemistry: Main Grid, White Claims, Au & As . "
4 Soil Geochemistry: Main Grid, White Claims, Ag & Pb . "
5 Soil Geochemistry: Main Grid, White Claims, Cu & Zn . "
6 Magnetic Contour Map and Induced Polarization . . . . "
Interpretation, Main Grid . . . . . "
7 Plan of Chargeability at n=1, Main Grid . . . . . "
8 Plan of Chargeability at n=2, Main Grid . . . . . "
9 Plan of Resistivity at n=1, Main Grid . . . . . "
10 Plan of Resistivity at n=2, Main Grid . . . . . "
11 Magnetic survey Data. . . . . "

## SUMMARY

Mountain Province Mining Inc's Ketza River property comprises the EVE 1 - 138, PS 1 - 12, WHITE 1 - 123 and WHYTE 1 - 24 mineral claims. The claims, totalling 285, are situated in one contiguous block centered 45 kilometres south of Ross River, in the Ketza River area, Watson Lake Mining District (105F/8,9), Yukon Territory. The property is accessible by four-wheel drive vehicle.

The ground is situated in an area underlain by a succession of Precambrian to Mississippian age rocks ranging from fine clastics and carbonates to volcanics. Mafic dykes of unknown age as well as Mississippian syenite and carbonatite intrude the sedimentary and volcanic sequences. Northwesterly and northeasterly trending normal faults displace lithologies a few tens of metres.

During 1989 an access road, 12.9 km long, was constructed to the southern part of the claims. Induced polarization test work and a magnetometer survey were conducted over parts of the property. Trenching was undertaken at the East, Lake and West zones. In addition, fill-in soil samples were collected over IP lines.

Results of this work located potentially economic gold values in sulphides at the East zone (0.356 oz/t Au across 2.10m) as well as significant gold-bearing oxides at the West zone (0.173 oz/t Au across 1.0m). Furthermore, silver-lead mineralization in veins was located at the Lake zone.

The East and West zones are significant, untested new discoveries in the Ketza River area. Their location in an arched and faulted portion of the Lower Cambrian is a highly permissive environment for concentrating gold. It is the same setting as that which contains the bulk of the chimney and manto gold deposits at Canamax Resources Inc's adjacent mine. Therefore, it is strongly believed that there is a high probability for finding similar deposits on Mountain Province's ground.

At the North zone a strong silver-lead-zinc soil anomaly is associated with Devono-Mississippian shales and volcanics. IP tests conducted in 1989 were successful in defining the shale-volcanic contact. It is believed that there is excellent potential for locating a polymetallic massive sulphide deposit at the North zone.

Niobium and rare earth showings associated with syenite and carbonatite are situated on the southern part of the property. Further work in this area is warranted in light of the increasing demands for these commodities.

A comprehensive exploration program, focusing primarily on gold showings in the Lower Cambrian and consisting of further ground geophysics, geological mapping, trenching, stripping and diamond drilling, is recommended to further evaluate the claims. The estimated cost of the proposed program is $1,050,000.

## RECOMMENDATIONS

A two phase, success contingent exploration program is recommended to further evaluate the claims. For 1990 the first stage of work should be undertaken with the objective of defining the surface extent of mineralization at the West and East zones. A further phase of detailed drill evaluation can be initiated in late 1990.

**Recommended Program:**

**Phase I:**

1. Geological mapping:
   Continued at 1:5,000 and 1:500, with refinements to stratigraphy.
3. Geophysics:
   Magnetic surveys of gridded areas.
4. Trenching
   Bulldozer stripping of selected, mineralized exposures.
5. Drilling :
   Initial testing of mineralized zones exposed by stripping.

**Phase II:**

1. Drilling:
   Expanded program of exploratory drilling.

Respectfully submitted,
**Amerlin Exploration Services Ltd.**

Carl C. Verley.

Carl G. Verley, F.G.A.C.

Vancouver, B.C.
February, 1990.

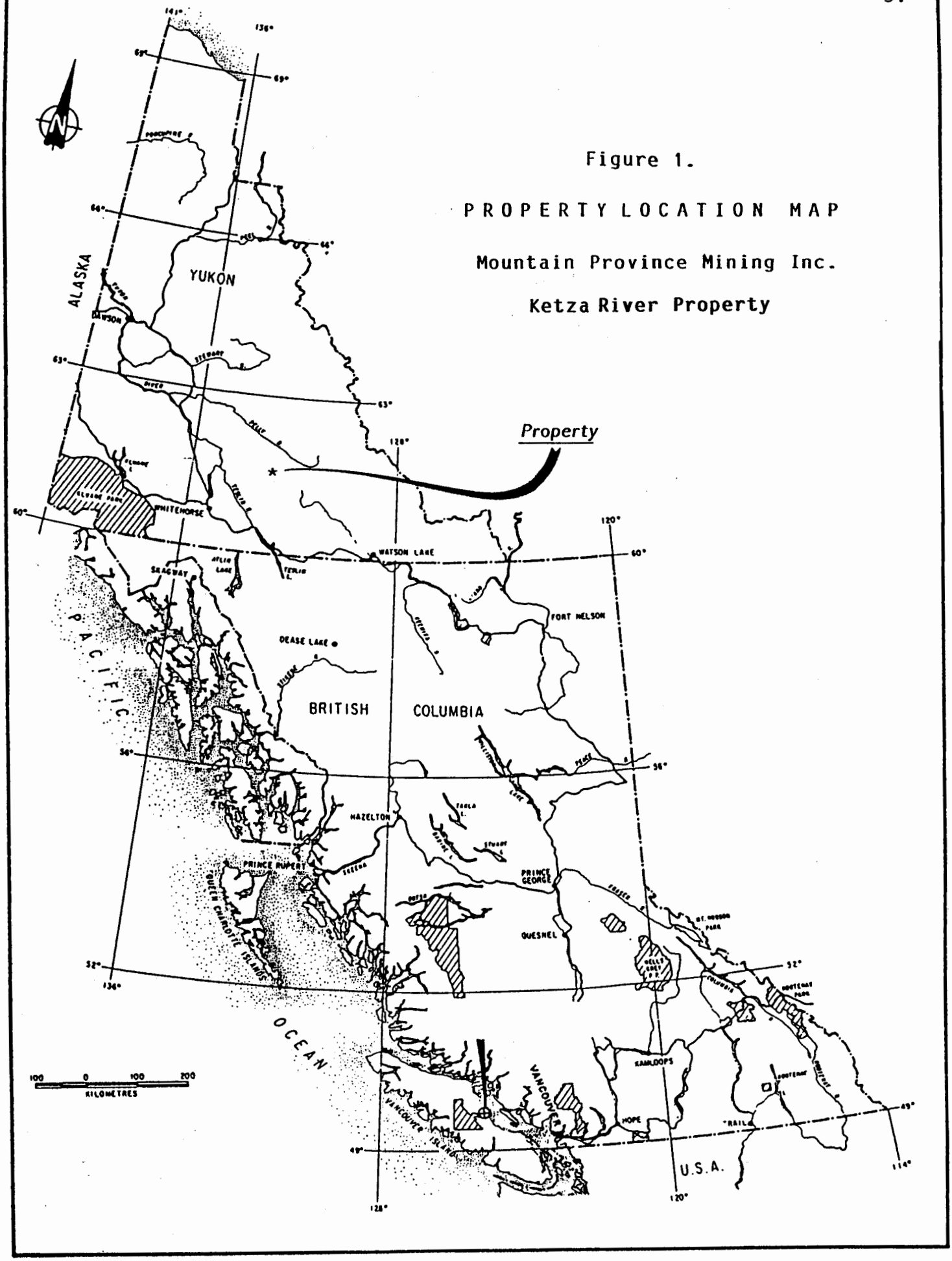



Figure 1.

PROPERTY LOCATION MAP

Mountain Province Mining Inc.

Ketza River Property

## INTRODUCTION

This report compiles results of exploration work conducted during the period September 8 to October 22, 1989 on the Eve 1-138 PS 1-12, White 1-123 and Whyte 1-24 mineral claims. The property is owned by Mountain Province Mining Inc. The object of the work was to evaluate soil geochemical anomalies using geophysical techniques and trenching.

## LOCATION

The claim group is located in the Ketza River area of the Pelly Mountains. The property is centered 45 kilometres south of Ross River in the Watson Lake Mining District, Yukon. It is bounded by latitude $61^{0}29'$N to $61^{0}37'$N and longitude $132^{0}19'$W to $132^{0}27'$W, covering part of map-sheets 105F/8 and 9. Physiographically the ground ranges from rugged alpine terrain on north facing slopes to relatively flat alpine plateaus and brush covered to forested valley bottoms. Elevations range from just under 1200 metres to just over 2100 metres above sea level.

## ACCESS

The property is accessible by a road which was constructed during the 1989 program. The road branches off of the

Ketza River Gold mine road just west of Canamax's exploration camp. It provides access to the southern part of the property (WHITE claims) passing by the East, Lake and West zones. The northern part of the property (EVE claims) is best accessed by helicopter from Ross River.

## HISTORY

Previous exploration work in the Ketza River area was initiated in the late 1940's by prospectors working for Hudson Bay Mining and Smelting. In the mid-1950's, considerable exploration work was conducted by Conwest Exploration Co. Limited culminating in the discovery of gold mineralization in lenses of massive pyrrhotite-arsenopyrite known as the Woodcock showing. At the same time, Conwest, other exploration companies, syndicates and prospectors, working independently, located silver-lead veins in the area. This work resulted in the definition of reserves at the Stump Mine of 40,000 tons grading 10.3 oz/ton Ag, 8.4% Pb and probable and possible reserves totalling 11,800 tons grading 15.9 oz/ton Ag, 12.1% Pb at the Ketzakey prospect. Since the mid-1970's, exploration was sporadic in the area. A consolidation of most silver prospects was achieved by Iona Industries Ltd. who subsequently optioned their ground to Canamax Resources Inc. in 1985. The Woodcock gold prospect and surrounding ground, through a wholly owned subsidiary of Conwest: Ketza River Mines Ltd., was

optioned to Pacific Trans-Ocean Resources Ltd. After drilling several test holes in the Woodcock showing Pacific Trans-Ocean joint ventured development of the property with Canamax Resources Inc. in 1984. Canamax, as operators of the project, commissioned a mill on the property and poured the first gold bar in mid-1988. In 1989, Canamax acquired Pacific Trans-Ocean's interest in the Ketza Gold deposit.

Mountain Province's ground in the Ketza was acquired in late 1986 and early 1987 to cover some areas previously known to be strongly anomalous in base metals and to cover Lower Cambrian strata that are favourable hosts for gold mineralization. During the 1987 field season initial reconnaissance mapping of the property was undertaken along with prospecting and geochemical sampling. This work was successful in locating several gold occurrences in the Lower Cambrian that are new discoveries in the Ketza River District. In 1988 a grid was established and soil sampled on the White claims. This work too, was successful, resulting in the definition of a large gold anomaly at the West zone as well as anomalies associated with gold and silver-lead-gold mineralization at the East and Lake zones respectively.

**CURRENT PROGRAM**

Work during the 1989 field season consisted of construction of an access road to the claims, induced polarization test work, magnetometer surveys, fill-in soil sampling and trenching.

Construction of the 4X4 passable, access road and trenching was undertaken by Grant Stewart Construction Ltd. of Watson Lake, Yukon. The road, 12.9 kilometres in length, was put in with a Caterpillar D8H in 7 days. A total of fourteen trenches were dug using a Caterpillar 215B excavator. Results of this work are described under "Mineralization".

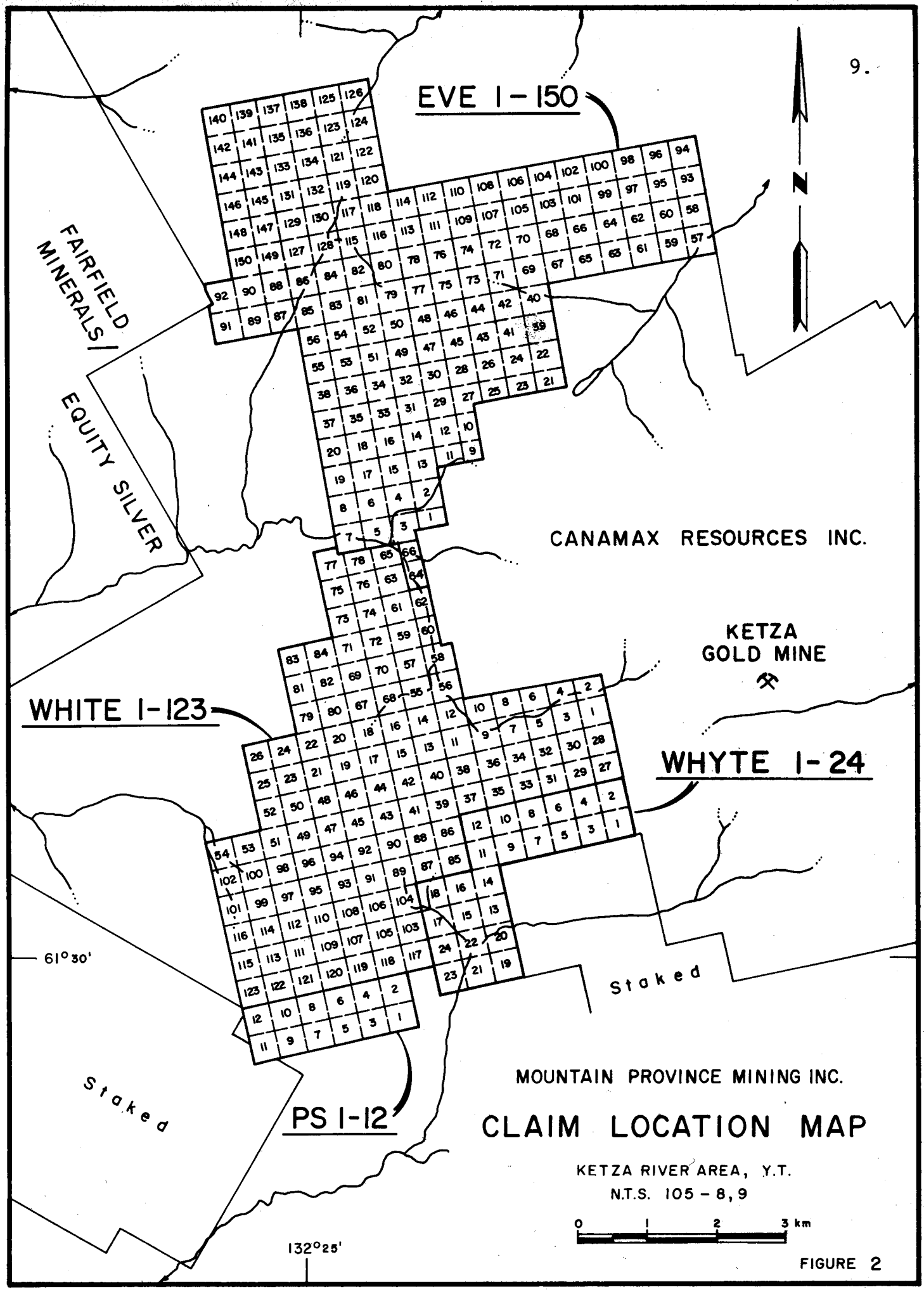
## PROPERTY

Mineral claim holdings of Mountain Province Mining Inc. described in this report consist of 297 contiguous, full sized claims as tabulated below and illustrated on Figure 1. The claims are located in the Watson Lake Mining District, Y.T. (NTS 105F/8,9).

**Table 1. MINERAL CLAIMS**

| Claims | | | Grant Numbers | Expiry Date |
|---|---|---|---|---|
| EVE | 1 - | 9 | YA99622-YA99630 | December 22/1992 |
| EVE | 10 | | YA99631 | December 22/1990 |
| EVE | 11 - | 20 | YA99632-YA99641 | December 22/1992 |
| EVE | 21 - | 26 | YA99642-YA99647 | December 22/1991 |
| EVE | 27 - | 28 | YA99648-YA99649 | December 22/1990 |
| EVE | 29 - | 31 | YA99650-YA99652 | December 22/1992 |
| EVE | 32 | | YA99653 | December 22/1991 |
| EVE | 33 | | YA99654 | December 22/1992 |
| EVE | 34 | | YA99655 | December 22/1991 |
| EVE | 35 | | YA99656 | December 22/1992 |
| EVE | 36 - | 38 | YA99657-YA99659 | December 22/1991 |
| EVE | 39 - | 40 | YA99660-YA99661 | December 22/1990 |
| EVE | 41 - | 44 | YA99662-YA99665 | December 22/1991* |
| EVE | 45 | | YA99666 | December 22/1992 |
| EVE | 46 | | YA99667 | December 22/1991 |
| EVE | 47 | | YA99668 | December 22/1992 |
| EVE | 48 - | 56 | YA99669-YA99677 | December 22/1991 |
| EVE | 57 - | 62 | YA99678-YA99683 | December 22/1992* |
| EVE | 63 | | YA99684 | December 22/1993* |
| EVE | 64 | | YA99685 | December 22/1991 |
| EVE | 65 | | YA99686 | December 22/1993* |
| EVE | 66 | | YA99687 | December 22/1991 |
| EVE | 67 - | 72 | YA99688-YA99693 | December 22/1993* |
| EVE | 73 - | 76 | YA99694-YA99697 | December 22/1991* |
| EVE | 77 | | YA99698 | December 22/1992 |
| EVE | 78 - | 80 | YA99699-YA99701 | December 22/1990 |
| EVE | 81 - | 84 | YA99702-YA99705 | December 22/1991 |
| EVE | 85 - | 92 | YA99706-YA99713 | December 22/1990 |
| EVE | 93 - | 105 | YA99714-YA99726 | December 22/1992* |
| EVE | 106 - | 112 | YA99727-YA99733 | December 22/1991* |
| EVE | 113 | | YA99734 | December 22/1990 |
| EVE | 114 | | YA99735 | December 22/1991* |
| EVE | 115 - | 138 | YA99736-YA99759 | December 22/1990 |
| PS | 1 - | 12 | YB00978-YB00989 | August 19/1995* |
| WHITE | 1 - | 60 | YA99896-YA99955 | March 26/2000* |
| WHITE | 61 - | 66 | YA99956-YA99961 | March 26/1999* |
| WHITE | 67 - | 74 | YA99962-YA99969 | March 26/2000* |
| WHITE | 75 - | 78 | YA99970-YA99973 | March 26/1999* |
| WHITE | 79 - | 104 | YA99973-YA99999 | March 26/2000* |
| WHITE | 105 - | 123 | YB00001-YB00019 | March 26/2000* |
| WHYTE | 1 - | 14 | YB11518-YB11531 | January 4/1994 |
| WHYTE | 15 - | 18 | YB11532-YB11535 | January 4/1995* |
| WHYTE | 19 - | 24 | YB10202-YB10207 | December 3/1993 |

*Pending acceptance of assessment work.




MOUNTAIN PROVINCE MINING INC.

# CLAIM LOCATION MAP

KETZA RIVER AREA, Y.T.
N.T.S. 105 - 8, 9

FIGURE 2

## GEOLOGY

### Regional:

Mountain Province Mining Inc.'s claims are situated in the Cassiar terrane, a displaced segment of continental margin (Wheeler, et al., 1988) that consists of a sequence of sediments ranging in age from Precambrian(?) to Upper Triassic. The depositional setting of the succession is that of a typical continental margin prism; where environments range from relatively shallow water, carbonate platforms to deeper water clastic facies. In the Ketza River district, deposition of carbonates was interrupted at the end of the Lower Cambrian. Karstic erosion leading to the development of cavern systems in the carbonates ensued. Fine clastics and carbonates resumed deposition from Upper Cambrian through to Devonian times and preserved, as a paleokarst, the structures developed in the Lower Cambrian carbonates. Rare syenitic intrusives of Mississippian age intrude the sequence in the vicinity of the Ketza River area. All these formations were deformed by an arc-continent collision event in Mesozoic times (Templeman-Kluit, 1979). Several large sheets of metamorphosed sediments, volcanics and associated pyroclastics of Paleozoic age were thrust over the underlying succession in the late Early Cretaceous. Right lateral strike-slip movement, in Late Cretaceous to Early Tertiary time, of at least 450 km along the Tintina Fault (Gabrielse, 1985) displaced the Cassiar terrane northward to its present position.

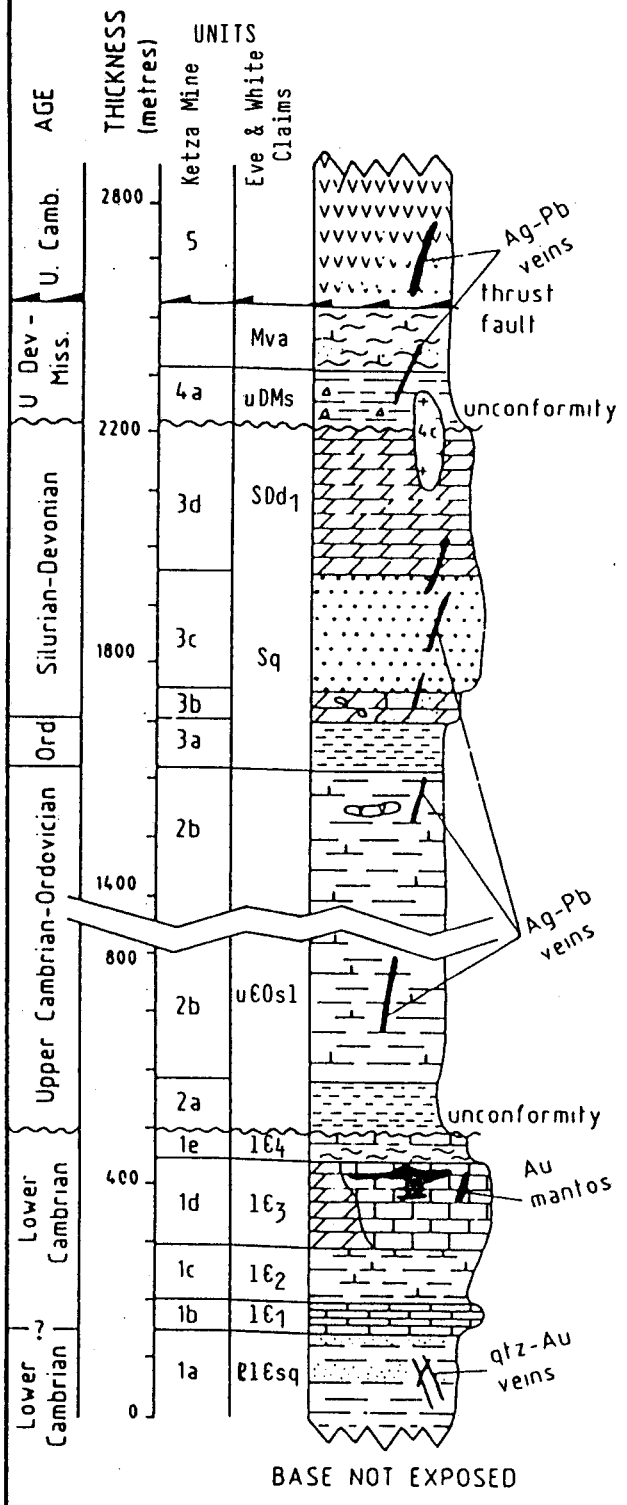
Small domal uplifts with associated block and thrust faults document a structural style developed during past deformations in the Ketza River area.

Property:

Property geology is illustrated on Plate 1. Preliminary geological mapping of the property was conducted during the 1987 field season (Verley, 1988). The stratigraphy (Figure 3) consists of a sequence of grits, carbonates and interbedded fine clastics and volcanics ranging in age from Precambrian (?) to Mississippian. The basal unit consists of argillite and sandstone and is possibly as old as Precambrian in age. However, it is conformable with Lower Cambrian carbonates. The Lower Cambrian carbonate sequence hosts gold mineralization on Mountain Province's property, as well as being the main host for gold deposits on Canamax's adjacent ground. The carbonates have been subdivided into several units (Read, 1980), totalling approximately 350 metres in thickness. The lowermost unit ($1\mathcal{C}_1$), approximately 50 metres thick, consists of a dark grey to black, well laminated silty limestone. This unit hosts gold mineralization at the East zone. It is correlative to unit 1b on Canamax's ground. Overlying the basal unit is approximately 100 metres of phyllitic mudstone and argillaceous limestone ($1\mathcal{C}_2$ = Canamax's 1c). Up to 150 metres of thick-bedded to massive, archeocyathid-bearing limestone ($1\mathcal{C}_3$) overlies $1\mathcal{C}_2$. This unit

# GENERALIZED STRATIGRAPHIC COLUMN

## EVE & WHITE CLAIMS - NTS 105F/8, 9




Intermediate and felsic volcanics and associated pyroclastics

Black, laminated shale

Orange weathering dolostone

Grey, massive quartzite and shale

Buff to orange weathering, calcareous phyllite and shale with local greenstone lenses. Contains distinctive irregular quartz-ankerite pods and veins

Green, phyllitic mudstone

Bluish-grey, thickly-bedded to massive, archeocyathid-bearing limestone. Locally dolomitized

Greyish-green to brown, phyllitic mudstone and argillaceous limestone

Dark grey to black, well laminated silty limestone

Greenish-grey argillite, siltstone and quartzite

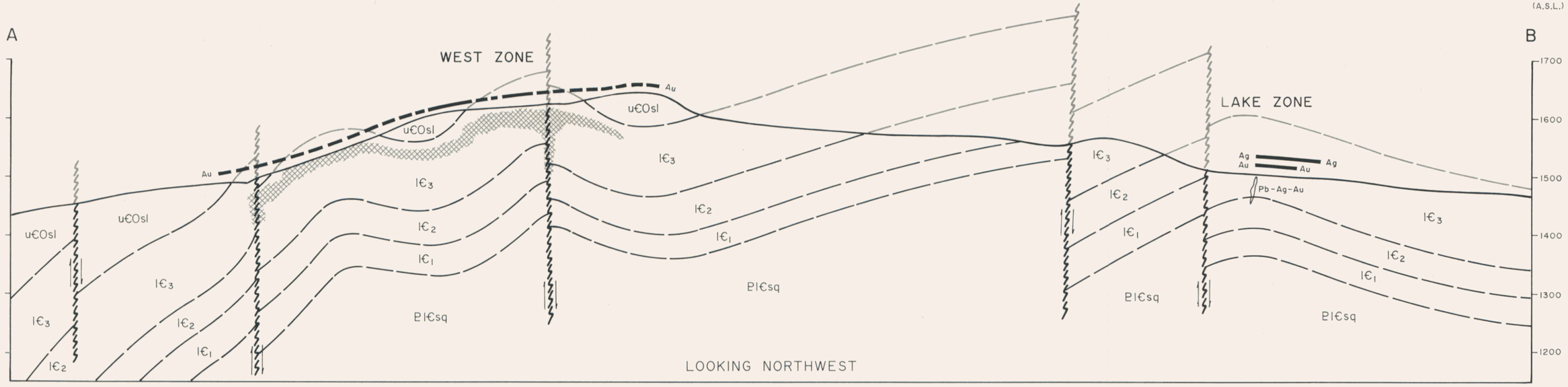
(Modified after Cathro, 1988)

Figure 3.

hosts gold and silver-lead mineralization at the West and Lake zones, respectively and correlates with Canamax's unit 1d. The uppermost unit ($1\epsilon_4$) consists of up to 50 metres of a predominantly pale greenish, phyllitic mudstone that correlates with Canamax's unit 1e. An estimated 1200 metres of Upper Cambrian to Ordovicican calcareous phyllite and shale unconformably overlie the Lower Cambrian. A succession, in the order of 500 metres in thickness, of Siluro-Devonian dolostone, quartzite and minor shale conformably overlies the Upper Cambrian-Ordovician strata. Upper Devonian to Mississippian shales and volcanics, in excess of 200 metres in thickness, unconformably overlie the Siluro-Devonian sediments.

Igneous rocks intrude the sediments in several areas on the claims. In the southwestern part of the White claims Mississippian syenite intrudes Siluro-Devonian carbonates and Mississippian volcanics. A variety of mafic dyke rocks and lamprophryes occur in different areas of the property and intrude sediments as young as Devono-Mississippian.

Arching of the Proterozoic to mid-Paleozoic succession to produce a crude dome with Precambrian - Lower Cambrian strata in the core is a dominant feature on the White claims (Figure 4). Northwesterly and northeasterly trending faults have ruptured the domal structure. These faults are near vertical, primarily having dip-slip displacement of a few tens of metres, but rarely exceeding one hundred metres. However, some faults have a




## LEGEND

UPPER CAMBRIAN-ORDOVICIAN

- u€Osl — THIN-BEDDED AND INTERBEDDED SLATE AND LIMESTONE

LOWER CAMBRIAN

- l€3 — THICK-BEDDED, FOSSILIFEROUS LIMESTONE
- l€2 — MASSIVE TO LAMINATED MUDSTONE OR PHYLLITE
- l€1 — BLACK LAMINATED LIMESTONE
- Pl€sq — INTERBEDDED QUARTZITE AND PHYLLITE

SYMBOLS

- INFERRED LITHOLOGIC CONTACT
- FAULT
- ANOMALOUS Au OR Ag SOIL GEOCHEMISTRY AS NOTED, AT SECTION LINE, PROJECTED TO SECTION LINE.
- INFERRED Fe-Mn-Mg CARBONATIZED ZONE ASSOCIATED WITH GOLD MINERALIZATION.

NOTE:
REFER TO PLATE 2 FOR LOCATION OF SECTION LINE.

MOUNTAIN PROVINCE MINING INC.

# WEST AND LAKE ZONES
# STRUCTURAL CROSS - SECTION

SCALE 1 : 5,000

0 100 200 300 m

FIGURE 4

definite strike-slip component. During part of their history the faults have been in an extensional stress regime. This is documented by large quartz veins, silicified zones and dykes that locally occupy or parallel these structures. The Ketza River gold mine occurs at the intersection of such faults indicating that these structures acted as important foci for the concentration of gold-bearing hydrothermal solutions.

## MINERALIZATION

The Eve and White claims of Mountain Province Mining Inc. host several commodities and several styles of mineralization.

### GOLD and SILVER

Precious metals are by far the more important commodity on the claims. Gold and silver occurrences on the White claims are similar to chimney and manto type deposits (Beaty et al., 1988). Such deposits have been important precious and base metal producers in the Cordilleran region of the United States at Gilman (Lovering et al., 1978) and Leadville (Tweto, 1968), Colorado as well as Park City (Barnes, et al., 1968) and the Tintic mining district (Morris et al.,1978), Utah. Production from these deposits (Table 2) demonstrates their very substantial contribution in terms of metal quantity to mineral wealth.

Table 2. Production records, selected U.S. manto-chimney deposits.

| | Eagle County (Gilman area, Co.) | Lake County (Leadville, Co.) | Park City Dist. (Utah) | Tintic Dist. (Utah) |
|---|---|---|---|---|
| Au | 393,491 oz. | 2,985,776 oz. | 972,109 oz. | 2,688,070 oz. |
| Ag | 66,070,544 oz. | 240,055,514 oz. | 237,564,201 oz. | 269,452,797 oz. |
| Zn | 857,862 tons | 785,380 tons | 657,903 tons | 206,973 tons |
| Pb | 148,444 tons | 1,088,204 tons | 1,270,418 tons | 1,133,024 tons |
| Cu | 104,801 tons | 53,109 tons | 54,935 tons | 124,631 tons |
| Tons Mined: | 12 million | 30 million | 14.6 million | 18.4 million |

Analogues of chimney and manto deposits in the Canadian Cordillera include the Midway deposit (1.306 million tons grading 13.18 oz/ton Ag, 9.6% Zn, 7.0% Pb) of Regional Resources Ltd in northern B.C. (Bradford et al., 1988) the Tintina Silver deposit (100,000 tons grading 20 oz/ton Ag, 6% Pb and 10% Zn) of Tintina Mines Ltd. in the Yukon and the Mosquito Creek gold mining camp (1.3 million ounces Au past production, Robert et al., 1989) in central B.C. But more striking is the comparison that can be made between the occurrences on the White claims and the deposits that are now being mined at the Ketza River gold mine.

Gold mineralization in both situations is hosted by Lower Cambrian strata. The gold showings on each property are clustered about a domal structure - part of the Ketza-Seagull Arch (Abbott, 1986). A series of faults, that presumably served as channelways to guide ascending mineralizing solutions to depositional sites in the limestone during late Mesozoic or Early Tertiary times, are associated with the gold zones at the Ketza deposits as well as on the White claims. A paleokarst developed in the Lower Cambrian may have provided open space to trap ascending mineralizing solutions. Mineralogy is identical on each property: sulphides consist primarily of pyrrhotite and arsenopyrite with lessor chalcopyrite and pyrite in mantos. Alteration around sulphide bodies is an assemblage of iron-manganese carbonates (ferroan dolomite-ankerite-siderite-manganosiderite) that form massive zones, envelopes and irregular veins in the Lower Cambrian limestone.

The size and shape of ore bodies on Canamax's ground is variable. According to Cathro (1989): "The largest and most continuous of the sulphide bodies are conformable, nearly flat-lying blankets or "mantos". The deposits occur near the top of the massive Lower Cambrian limestone [unit $l\epsilon_3$], from 0 to 100 metres beneath the green mudstone [unit $l\epsilon_4$]. The thickness of the mantos varies greatly from less than 10 cm to greater than 30 m. Vertical stacking of parallel lenses is common. . .Mantos are extremely irregular in detail despite their strong overall stratigraphic control. Massive sulphides pinch and swell and interfinger with barren limestone or weakly sulphide-veined limestone. . .Auriferous iron oxide deposits (RIDGE, BREAK, and PEEL OXIDE zones) can have the same general shape as [and are contiguous with] sulphide bodies although they show a greater affinity for structurally disrupted sites. . .In some places, unoxidized sulphides are above the oxides suggesting that groundwater flow patterns the position of oxide mineralization."

Currently, Canamax's mining and milling operations focus on processing the more readily beneficiated oxide ore. Milling rate is believed to be in the order of 400 tons per day, yielding around 4000 ounces of gold a month. Furthermore, studies (Chryssoulis et al, 1989) indicate that processing of the sulphide mineralization is economically viable. Canamax is presently in the process of obtaining permits to mill the sulphides. Exploitation of the sulphide reserves will significantly increase the mine's life and economic spin-offs from the

project.

On Mountain Province's WHITE claims gold is found in sulphide and oxide accumulations and in chalcopyrite-bearing quartz veins in the Lower Cambrian. These occurrences, described below, although currently not as well defined as Canamax's deposits have very strong similarities to them in terms of stratigraphic position, structural control and mineralogy.

**East Zone**

Gold occurs in the basal member ($1\mathcal{C}_1$) of the Lower Cambrian at the East Zone. Irregular veins of iron and manganese-rich carbonates containing pyrite and arsenopyrite cut thin-bedded black limestone. The limestone forms several small exposures in this area. Attitude of bedding in the limestone varies from exposure to exposure suggesting that the sequence has been folded. Alternatively, the variation in bedding may be the result of rotation of blocks about a dissolution-collapse structure related to the paleokarst, with the veins filling fractures on the periphery. Grab samples of sulphide mineralization collected during the 1987 season have assayed up to 1.220 oz/ton gold. In 1989 an area was stripped off at the East zone and sampled. Continuous chip samples across the base of the exposure (T-1, Figure 6) assay up to 0.356 oz/ton gold across 2.10 metres. These results demonstrate that potentially economic gold mineralization occurs on the White claims.

# TABLE 3 TRENCH DATA

| Sample No. | Width | Description | Assay & Analytical Data | | | |
|---|---|---|---|---|---|---|
| | | | Au oz/t | Ag oz/t | As % | Cu % |
| **EAST ZONE:** | | Trench T-1 | | | | |
| 0080 | 2.10 m | Pyrite, pyrrhotite and arsenopyrite(?) as disseminations and irregular stringers in LC1. | 0.356 | 0.01 | 0.07 | 0.01 |
| VKR401 | 2.00 m | Grey, laminated, hornfelsed(?) limestone | 30* | 0.1* | 24* | 3* |
| 0081 | 1.30 m | as 0080. | 0.262 | 0.01 | 0.30 | 0.01 |
| VKR402 | 1.60 m | as VKR401, with minor sulphides and limonite | 6880* | 0.5* | 870* | 40* |
| 0082 | Grab | From float boulder mineralization as in 080 | 0.367 | 0.02 | 2.28 | 0.02 |
| 0083 | 2.20 m | as 0080. | 0.033 | 0.02 | 0.04 | 0.01 |
| **LAKE ZONE:** | | Trench T-4 | | | | |
| 0084 | 0.07 m | Massive galena, pyrite and arsenopyrite-bearing vein in dolomitized LC3(?). | 0.013 | 36.64 | 0.99 | 0.40 |
| | | Trench T-3 | | | | |
| TS-2 | - | Soil: reddish brown material | 116* | 78.6* | 3236* | 970* |
| **WEST ZONE:** | | Trench T-10: 2300E, 2685N-2725N | | | | |
| 0064 | 0.03 m | Yellow to brown limonitic zone in LC3. | 0.001 | 0.04 | 0.05 | 0.23 |
| 0065 | 2.60 m | Limonite. | 0.001 | 0.01 | 0.01 | 0.01 |
| 0066 | 2.40 m | Limonite. | 0.001 | 0.01 | 0.02 | 0.01 |
| 0067 | 2.40 m | Limonite. | 0.001 | 0.02 | 0.03 | 0.01 |
| 0068 | 2.90 m | Limonite. | 0.001 | 0.02 | 0.02 | 0.01 |
| | | Trench T-11: 2250E, 2784N-2814N | | | | |
| 0069 | 2.20 m | Limonite with pyrite and chalcopyrite in LC3. | 0.001 | 0.49 | 0.08 | 1.22 |
| 0070 | 2.30 m | Limonite with pyrite and chalcopyrite in LC3. | 0.001 | 0.05 | 0.04 | 0.11 |
| 0071 | 5.10 m | Pyrite and chalcopyrite with quartz and hematite in LC3. | 0.001 | 0.03 | 0.02 | 0.08 |
| | | Trench T-12: 2200E, 2696N-2769N | | | | |
| 0072 | 1.60 m | Limonite. | 0.007 | 0.15 | 3.19 | 0.22 |
| 0085 | 1.80 m | Limonite. | 0.041 | 0.54 | 14.46 | 0.02 |
| 0086 | 1.18 m | Limonite. | 0.100 | 1.28 | 3.51 | 0.04 |
| 0087 | 2.30 m | Limonite. | 0.001 | 0.01 | 0.27 | 0.02 |
| 0088 | 1.22 m | Limonite. | 0.003 | 0.21 | 1.04 | 0.10 |
| 0073 | 1.00 m | Limonite. | 0.173 | 0.97 | 6.94 | 0.05 |
| 0089 | 1.70 m | Limonite. | 0.023 | 0.22 | 3.64 | 0.11 |
| 0090 | 1.17 m | Limonite. | 0.133 | 0.76 | 4.44 | 0.02 |
| 0091 | 1.22 m | Limonite. | 0.008 | 0.05 | 2.36 | 0.02 |
| 0074 | 6.40 m | Limonite and coarse carbonate with pyrite and arsenopyrite. | 0.001 | 0.01 | 0.20 | 0.03 |
| | | Trench T-13: 2150E, 2850N-2882N | | | | |
| 0075 | 2.10 m | Limonite with trace of sulphides(pyrite?). | 0.009 | 0.02 | 4.49 | 0.03 |
| 0076 | 4.00 m | Limonite with trace of sulphides(pyrite?). | 0.001 | 0.01 | 0.22 | 0.01 |
| | | Trench T-14: 2100E, 2868N-2911N | | | | |
| 0077 | 3.00 m | Limonitic carbonate with pyrite and arseno-pyrite(?). | 0.001 | 0.01 | 0.18 | 0.05 |
| 0078 | 8.00 m | Coarse secondary carbonate with limonite and pyrite. | 0.001 | 0.01 | 0.01 | 0.03 |
| | | Trench T-8: 2300E, 2452N-2486N | | | | |
| 0079 | 1.00 m | Pyrite + chalcopyrite in altered carbonate. | 0.001 | 0.01 | 0.02 | 0.03 |
| | | Trench T-9: | | | | |
| TS-1 | - | Soil: Yellowish clayey material. | 34* | 1.0* | 214* | 106* |

* Au in ppb; Ag, As, Cu in ppm.

**Lake Zone**

The Lake Zone appears to occur at the base of the upper member ($1\epsilon_3$) of the Lower Cambrian in an area that has been dolomitized. A strong Pb, Ag, As and Au soil geochemical anomaly occurs over a 400 by 200 metre area. Trenching located a narrow (7 cm wide) steeply dipping, northeasterly striking massive sulphide vein. A grab sample of vein material assayed 36.64 oz/ton silver, 0.013 oz/ton gold, 57.97% lead, 0.99% arsenic and 0.40% copper.

**West Zone**

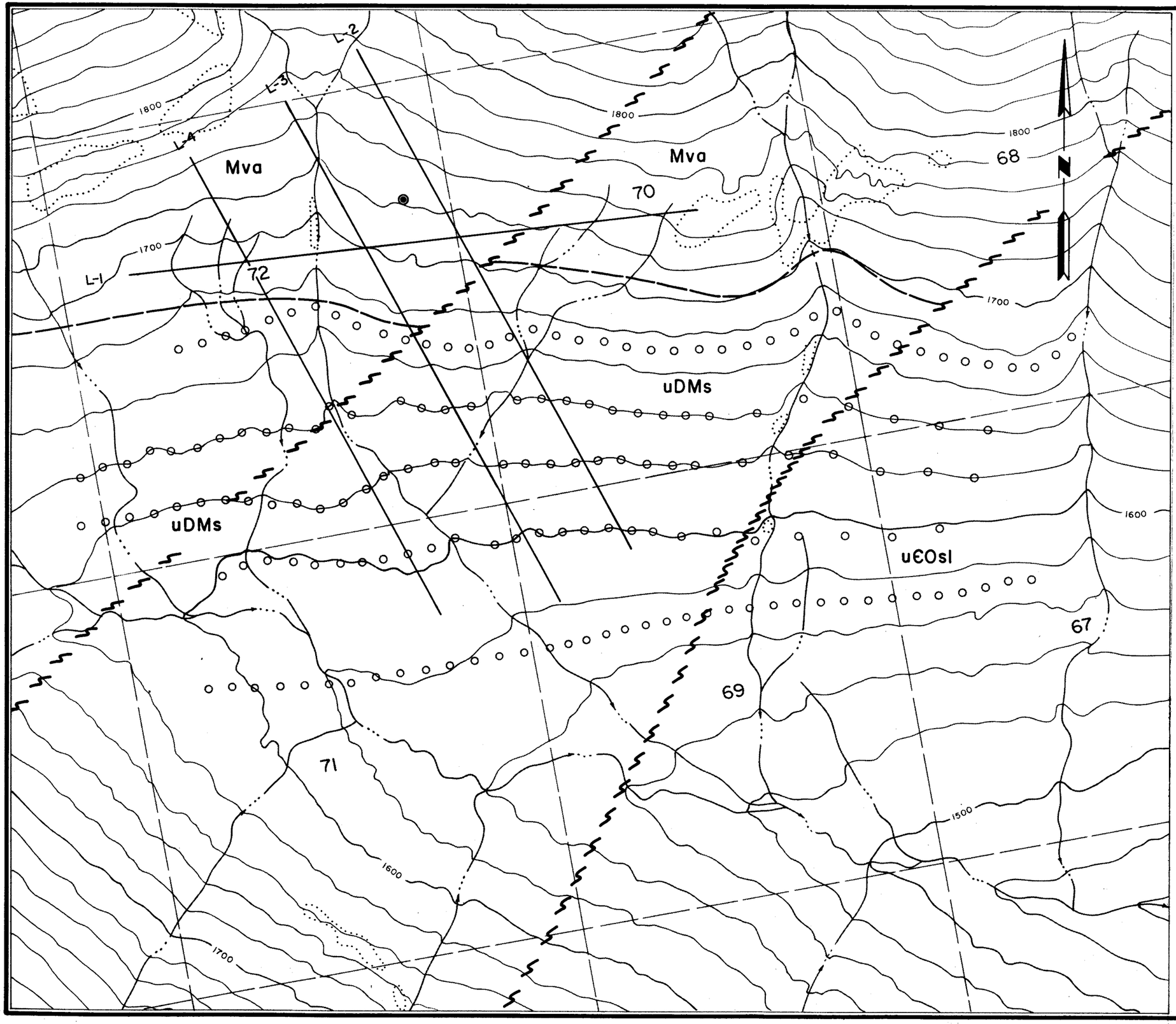
The West Zone is situated in the upper member of the Lower Cambrian ($1\epsilon_3$). Trenching indicates that mineralization is situated at and immediately below the contact with the green mudstone unit ($1\epsilon_4$). A large Au, As, Pb and Cu soil anomaly - extending over an area 1000 by 400 metres - is associated with the West zone. Mineralization found in 1987 consisted of cobbles and boulders of limonitic material found in a creek bank slide. A grab sample of the limonite analysed 2010 ppb gold, 35 ppm silver, 18368 ppm arsenic and 1764 ppm lead. The limonite varies from red to dark brown rock with local malachite and scorodite staining. In 1989 a total of 8 trenches (T-8 to T-14, Figures 7 to 12) were put in the West zone. Of these, trench T-12 contained sections of limonitic material assaying up to 0.17 oz/ton gold. Other trenches intersected limonite as well as sulphide-bearing secondary iron-carbonate, samples of which assayed high in copper

(up to 1.22%) and arsenic (up to 4.49%). Sulphides consist of arsenopyrite, chalcopyrite, pyrite and pyrrhotite commonly in a matrix of medium to coarse-grained iron-carbonate.

Current work, while successful in locating significant gold mineralization at the West zone, has not adequately tested the extent nor the tenor of this material. The 1989 work demonstrates that the West zone is situated in the same stratigraphic setting as gold deposits on Canamax's property. A layer of permafrost appears to have preserved sulphides at the surface in some areas. Moreover, the structural setting - numerous faults disrupting gently westerly dipping strata - is ideal for groundwater flow to oxidize auriferous sulphide mantos below the permafrost lenses. This suggests that the potential for locating signficant accumulations of auriferous oxide mineralization at the West zone is excellent.

**SILVER, LEAD and ZINC**

At the **North** zone on the Eve claims (Figure 5) a strong soil geochemical anomaly (Pb up to 2881 ppm, Zn to 8674 ppm, Ag to 54.9 ppm, Au to 240 ppb and As to 432 ppm) suggests the presence of polymetallic mineralization near or at the contact between Devono-Mississippian shales and Mississippian volcanics. A ferricrete zone is associated with the soil anomaly. Cyprus-Anvil had previously held this ground in the 1970's (EROS claims) and drilled one hole on the property. Their drilling failed to




## LEGEND

### LITHOLOGIES

MISSISSIPPIAN

Mva — VOLCANICS

UPPER DEVONIAN – MISSISSIPPIAN

uDMs — SHALE

UPPER CAMBRIAN – ORDOVICIAN

uCOsl — LIMESTONE – SLATE

### SYMBOLS

OUTCROP DISTRIBUTION

INFERRED LITHOLOGIC CONTACT

FAULT, DEFINED, INFERRED

CYPRUS – ANVIL DRILL HOLE

NOTE: SCREENED SAMPLE SITES ARE LOCATIONS OF 1987 SAMPLING.

REFER TO PLATE I FOR LOCATION.

L-1 TO L-4: 1989 GEOPHYSICAL TEST LINES.

MOUNTAIN PROVINCE MINING INC.

# GEOLOGY
## NORTH ZONE
EVE 67-72 CLAIMS

SCALE 1 : 4,000

0 100 200 300 m

FIGURE 5

intersect any mineralization and therefore did not explain the anomalous soil geochemistry. Discussions with Dr. Lee Pigage, who was involved with the project, indicate that the anomalous material was transported to its present position as a result of a landslide, therefore the mineralized source for the anomaly must lie upslope. It is believed that mineralization responsible for the anomaly may be similar to that found at Cominco's MM property situated 22 kilometres to the southwest. Layers of Pb-Zn-Ag massive sulphide mineralization hosted by Mississippian volcanics at the MM have similarities to Kuroko deposits (Mortensen et al, 1982). In 1989 IP test lines put across the area of anomalous soil geochemistry were successful in locating the shale-volcanic contact. The strong influence of the low resistivity shales masked any response from sulphides.

**NIOBIUM and RARE EARTHS**

Uranium, niobium, zircon and rare earth elements are associated with Mississippian syenite and carbonatite in the southwestern part of the property (Plate 1). This occurrence was previously held as the GUANO-GUAYES claim group by the Ukon joint venture in the 1970's. The occurrence, although described as a skarn (Chronic et al, 1981), has similarities with Cominco's Alley prospect (Mader, 1987) as well as to Formosa Resources Ketchika prospect (Pell et al, 1989) - both rare earth discoveries associated with Paleozoic rocks near the extensions

of the Tintina Fault in northern B.C. Grab samples collected along the syenite contact during the 1987 field season analyzed up to 1266 ppm Nb, 6375 ppm Zr, 469 ppm La, 446 ppm Y and 443 ppm Ce. Further sampling to define zones of Nb and rare earth mineralization should be conducted in this area.

## GEOCHEMISTRY

During the 1989 field program a total of 284 soil samples were collected along previously established grid lines at the Lake and West zones. A small grid, established over the North zone primarily for control of geophysics, was also sampled. The object of this work was to provide detailed geochemical correlation with geophysics and trenching.

Sampling interval was at 25 metres (on a fill-in basis at the Lake and West zones). Sample sites were picketed, with sample numbers inscribed on aluminum tags stapled to pickets.

All samples were placed in numbered bags and delivered to ACME Analytical Laboratories Ltd. in Vancouver, B.C. There samples were dried and sieved to -80 mesh. A 0.5 gram portion of each sieved sample was digested in 3 ML of a 3:1:2 solution of HCl, $HNO_3$ and $H_20$ at $95^0C$ for one hour, then diluted with water to a 10 ML solution. Gold analysis was by atomic absorption from a 10 gram sample. Inductively coupled argon plasma(ICP) technique was used to analyze 0.5 grams samples for Mo, Cu, Pb, Zn, Ag, Ni, Co, Mn, Fe, As, U, Th, Sr, Cd, Sb, Bi, V, Ca, P, La, Cr, Mg, Ba, Al, Na, K, and W.

A summary and interpretation of the geochemical data, in terms of range, background and anomalous categories is tabulated below (Table 4). Categories for Lower Cambrian strata

**Table 4. Interpretation of Geochemical Data**

| | Gold (ppb) | Arsenic (ppm) | Silver (ppm) | Lead (ppm) | Copper (ppm) | Zinc (ppm) |
|---|---|---|---|---|---|---|
| **Lithology: Lower Cambrian carbonates (East, Lake and West Zones)** | | | | | | |
| Background | 1-6 | 1-184 | 0.1-1.6 | 2-96 | 1-153 | 1-194 |
| Possibly anomalous | 7-10 | 185-320 | 1.7-2.7 | 97-192 | 154-329 | 195-289 |
| Anomalous | 11-44 | 321-1389 | 2.8-9.8 | 193-1104 | 330-1599 | 290-639 |
| Strongly anomalous | 45+ | 1390+ | 9.9+ | 1105+ | 1600+ | 640+ |
| **Lithology: Devono-Mississippian shales and volcanics (North Zone)** | | | | | | |
| Background | 1-4 | - | 0.1-3.3 | 1-324 | - | 1-2999 |
| Possibly anomalous | 5-6 | - | 3.4-3.7 | 325-409 | - | 3000-3829 |
| Anomalous | 7-32 | - | 3.8-8.9 | 410-944 | - | 3830-8549 |
| Strongly anomalous | 32+ | - | 9.0+ | 945+ | - | 8550+ |

determined from the 1988 sampling program (2131 samples - Verley et al, 1989). For the Devono-Mississippian shales and volcanics 1987 and 1989 data were combined and analysed using the 'Probplot' computer program (Stanley, 1987) to determine population parameters for gold, silver, lead and zinc data. The data were treated using a two population model. Modelling of statistical parameters (Figure 13) and probability plots (Figures 14 and 15) of the data are found in Appendix 'A'. A discussion of the results follows.

**Soils over Lower Cambrian strata:**

Fill-in sampling at the West zone (119 samples - Plates 3 to 5) and Lake zone (39 samples) confirmed the multi-element anomalies outlined by the 1988 sampling. Values in the fill-in soils at the West zone range up to: 139 ppb Au, 6687 ppm As, 2918 ppm Cu, 1051 ppm Pb, 7.4 ppm Ag and 657 ppm Zn; at the

Lake zone up to: 15 ppb Au, 290 ppm As, 203 ppm Cu, 1421 ppm Pb, 8.6 ppm Ag and 120 ppm Zn. Northeast of the Lake zone soils along line 3450E, 4400N to 5100N have anomalous gold (to 61 ppb), copper (to 493 ppm) and lead (to 209 ppm) values in an area that was found to be slightly anomalous in lead and gold by the 1988 sampling.

**Soils over Devono-Mississippian formations:**

At the **North zone** four lines were sampled (98 samples - Figures 16 and 17) in the area of the Ag-Pb-Zn anomaly outlined by work in 1987. The area sampled is underlain by Devono-Mississippian shales which are overlain by Mississippian volcanics. Values in soils along the sampled lines range up to 240 ppb Au, 54.9 ppm Ag, 2881 ppm Pb and 8674 ppm Zn. High gold, silver and lead values which are believed to be proximal to bed rock mineralization occur in an area that is interpreted as being underlain by volcanics, just above the contact with the shale. A strong zinc anomaly is situated down slope from this area, but is interpreted as being a hydromorphic anomaly, developed at the break in slope.

## GEOPHYSICS

Induced polarization (IP) test work and magnetometer surveys were conducted over part of the Main grid and the North zone during the 1989 program. The object of this work was to test the effectiveness of these techniques in locating areas that may be underlain by auriferous sulphides. According to Canamax geologists the existence of pyrrhotite, a mineral with variable magnetic susceptibility, in the sulphide mantos has enabled the effective use of magnetometers for locating buried mineralization. IP was chosen because of the broad range of response it gives to sulphide mineralization as well as to lithology. Oxide mineralization would not respond to either of these geophysical techniques except in instances where it contained a sufficient relict sulphide component. However, the close proximity of sulphides to oxides is particularly germane to discovering oxides. Details of instrumentation and techniques used as well as complete interpretation of results are found in the report by Messrs Cartwright and St. Pierre of Pacific Geophysical Limited in Appendix B.

**Magnetometer Survey:**

Results of the magnetometer survey (Plate 6 and 11) outline a series of 60 to 80 gamma highs that form a northwesterly trending magnetic lineament at the West zone, extending from 1600E, 3050N to 2400E, 2750N. A major fault coincides with the

magnetic highs. Several highs branch out from this structure at 2100E, 2775N; 2500E, 2550N to 2650N; and 2600E, 2425N. A strong magnetic response (up to 280 gammas) across lines 2600E and 2700E, 1625N occurs in an area that is inferred to be underlain by the upper part of the Lower Cambrian. Trenches across some of the magnetic highs contain limestone with disseminated pyrrhotite, pyrite, arsenopyrite and chalcopyrite. Therefore, it is probable that sulphide mantos are associated with the magnetic highs. The Lake zone does not appear to have a magnetic signature.

**Induced Polarization Survey:**

Induced polarization survey results (Figures 18 to 34, and Plates 7 to 10) are not as clear as the magnetics. Graphitic shales and a variable carbonaceous component in the limestones in the survey area at the West and Lake zones produce low resistivities that mask a response from sulphides. Since sulphide mantos are commonly developed at the top of the Lower Cambrian immediately below the graphitic basal unit of the Upper Cambrian they are easily lost to IP interpretation as a result of the low resistivity noise developed by the Upper Cambrian strata. However, high chargeabilities coincident with relatively high resistivities in areas underlain by the Lower Cambrian limestone may be indicative of sulphide bodies in the limestone. At the West zone chargeability-resistivity highs coincident with magnetic highs occur at 2000E, 2900N; 2100E, 2850N; 2300E, 2800N.

In addition, chargeability-resistivity highs occur at 2300E, 2475N and 2400E, 2450N. These sites are believed to be underlain by sulphide mantos. Anomalous geochemistry is associated with these zones (eg 2000E, 2900N: 151 ppb Au, 1875 ppm As; 2100E, 2900N: 116 ppb Au, 2683 ppm As, 2239 ppm Cu, 11.4 ppm Ag) suggesting that they reflect auriferous sulphide mantos.

At the **Lake zone** a chargeability-resistivity high across lines 2900E and 3000E from 3875N to 3775N suggests sulphides may underlie this area.

The results of IP tests at the **North zone** were effective in mapping the contact between Devono-Mississippian shales and overlying Mississippian volcanics. But again because of the graphitic component in the shales, it was not possible to discriminate between the response that might be caused by sulphides and that caused by shales.

## CONCLUSIONS

Mountain Province Mining Inc. is the owner of 297 contiguous mineral claims. The property is situated in an easily accessible area of the Watson Lake Mining District (105F/8, 9).

The 1989 work program provided road access to the southern part of the property. Potentially economic gold mineralization (values up to 0.356 oz/t Au) was located at the East zone. Signficant gold values (0.173 oz/t Au) were found in oxides at the West zone. As well, silver-lead mineralization was discovered in a vein at the Lake zone. However, of the targets developed to date on the property the West zone is believed to have the greatest potential for hosting significant quantities of gold mineralization because of: i) the large associated gold-arsenic-copper soil anomaly; ii) coincident magnetic highs; iii) stratigraphic setting - top of $lC_3$; iv) favourable structural setting for oxidation of sulphide zones - numerous faults disrupting gently to moderately, westerly dipping strata. The North zone (EVE claims) appears to have potential for hosting either polymetallic massive sulphides (Kuroko deposit) or structurally controlled mineralization. Niobium and rare earth showings on the southern part of the property require further evaluation.

It is strongly recommended that an aggressive program be initiated to continue the exploration and development of the claims.

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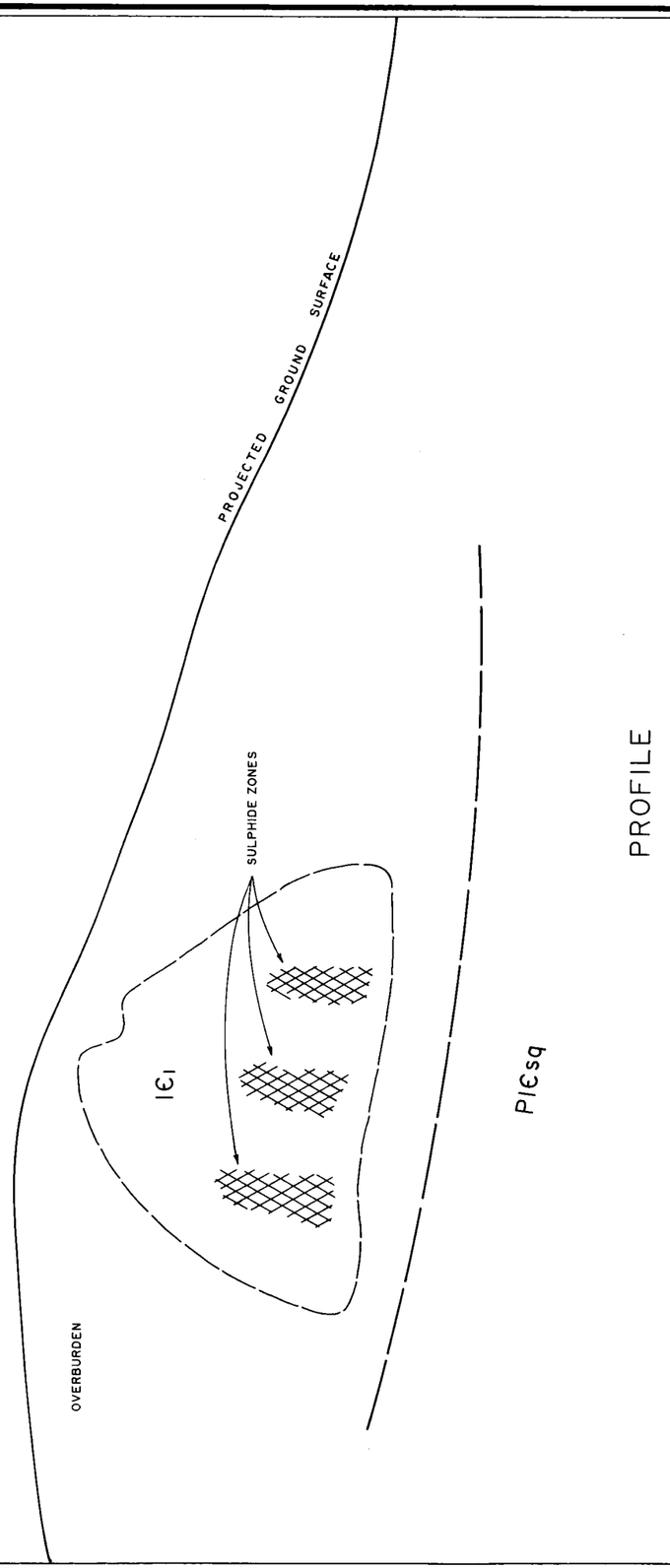
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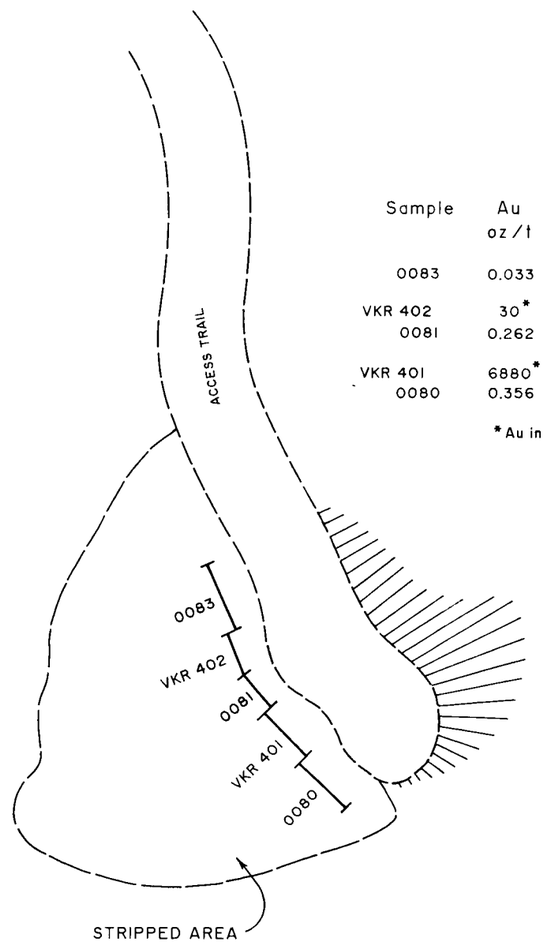
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# APPENDIX A

# ASSAY AND ANALYTICAL DATA




PROFILE




| Sample | Au oz/t | Ag oz/t | As % | Cu ppm |
|---|---|---|---|---|
| 0083 | 0.033 | 0.02 | 0.04 | 33 |
| VKR 402 | 30* | 0.1* | 24* | 3 |
| 0081 | 0.262 | 0.01 | 0.30 | 57 |
| VKR 401 | 6880* | 0.5* | 870* | 40 |
| 0080 | 0.356 | 0.01 | 0.07 | 49 |

*Au in ppb, Ag, As in ppm

3750N

4600E

PLAN

## EXPLANATION

TRENCH

0083 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

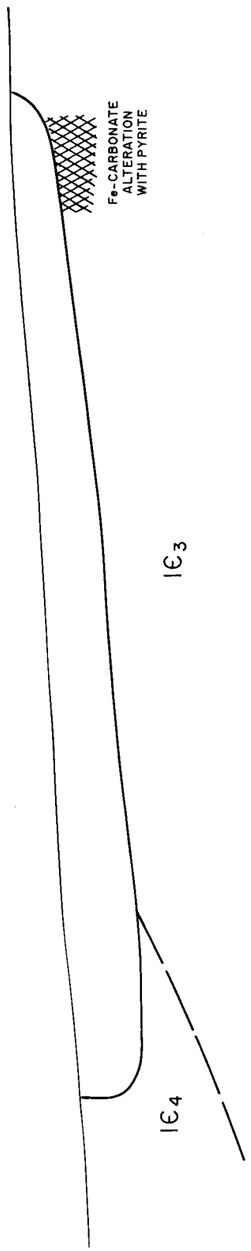
## TRENCH T-1

EAST ZONE - WHITE CLAIMS

SCALE 1:200

0 5 10 15m

FIGURE 6




PROFILE

| Sample | Au oz/t | Ag oz/t | As % | Cu % |
|---|---|---|---|---|
| 0079 | 0.001 | 0.01 | 0.02 | 0.03 |




PLAN

## EXPLANATION

TRENCH

0079 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

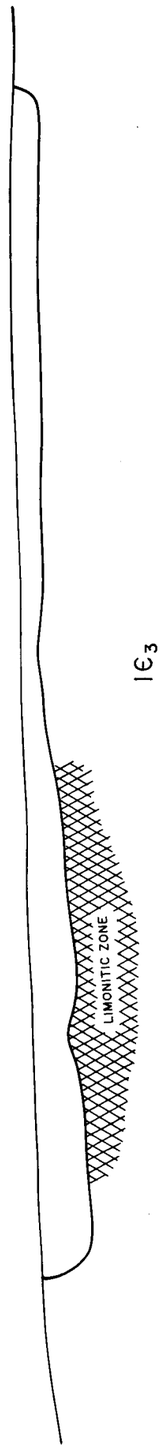
## TRENCH T - 8

WEST ZONE - WHITE CLAIMS

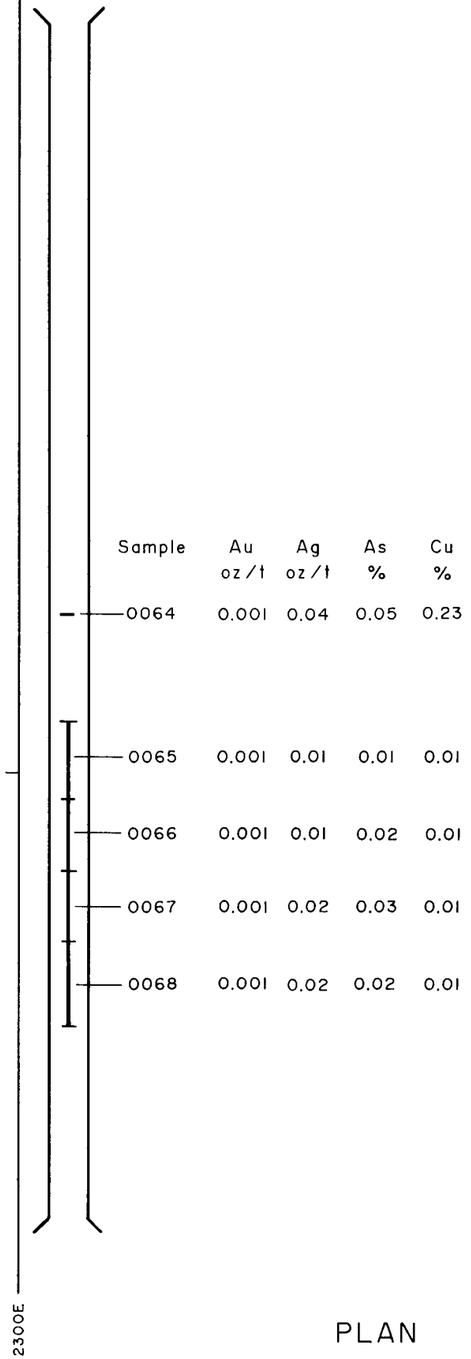
SCALE 1: 200

0 5 10 15m

FIGURE 7




PROFILE




| Sample | Au oz/t | Ag oz/t | As % | Cu % |
|---|---|---|---|---|
| 0064 | 0.001 | 0.04 | 0.05 | 0.23 |
| 0065 | 0.001 | 0.01 | 0.01 | 0.01 |
| 0066 | 0.001 | 0.01 | 0.02 | 0.01 |
| 0067 | 0.001 | 0.02 | 0.03 | 0.01 |
| 0068 | 0.001 | 0.02 | 0.02 | 0.01 |

PLAN

## EXPLANATION

TRENCH

0064 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

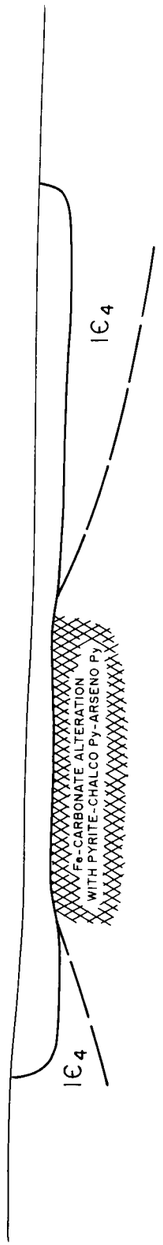
## TRENCH T-10

WEST ZONE - WHITE CLAIMS

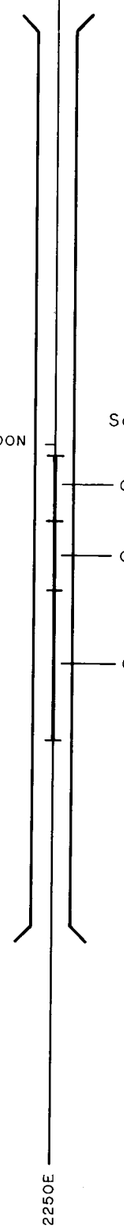
SCALE 1:200

0 5 10 15m

FIGURE 8




PROFILE




| Sample | Au oz/t | Ag oz/t | As % | Cu % |
|---|---|---|---|---|
| 0069 | 0.001 | 0.49 | 0.08 | 1.22 |
| 0070 | 0.001 | 0.05 | 0.04 | 0.11 |
| 0071 | 0.001 | 0.03 | 0.02 | 0.08 |

PLAN

## EXPLANATION

TRENCH

0069 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

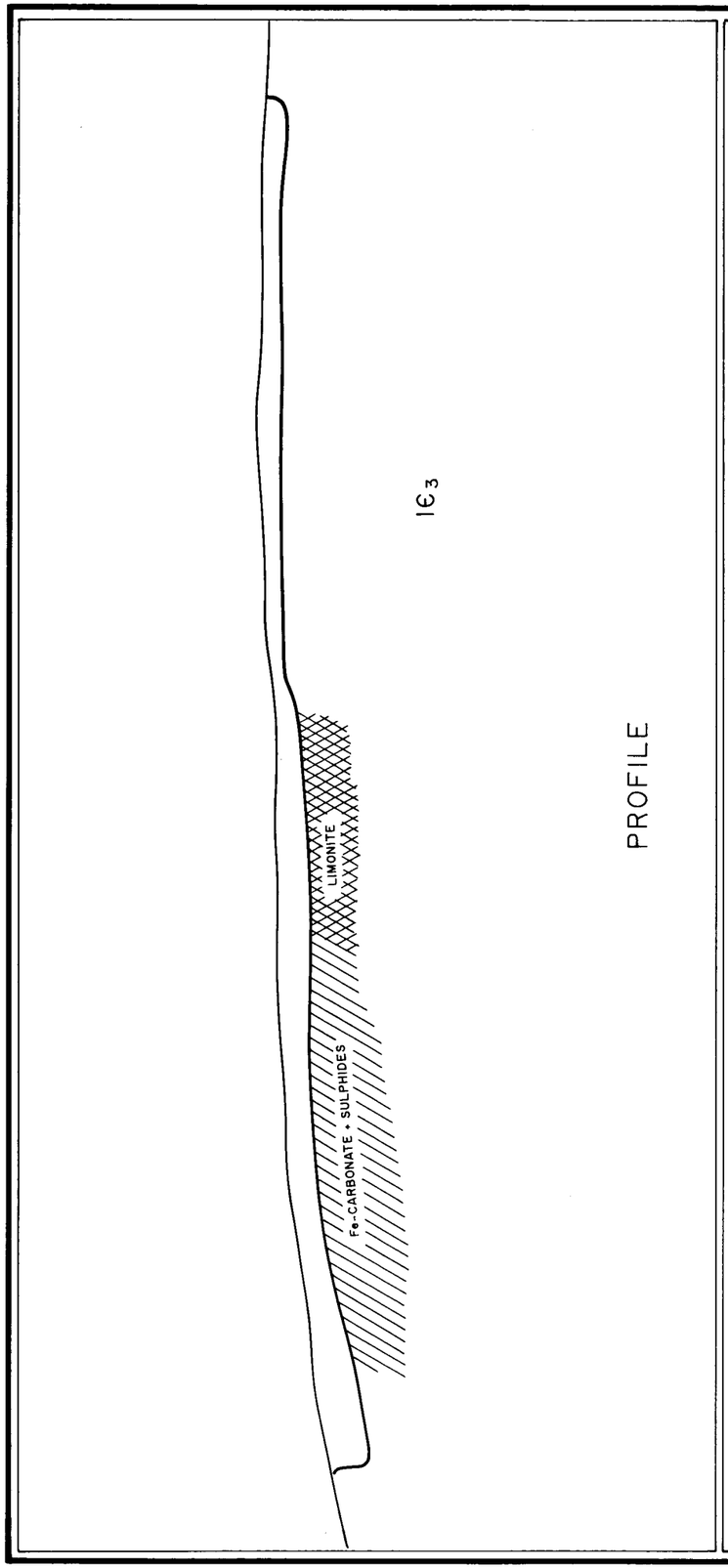
## TRENCH T-11

WEST ZONE - WHITE CLAIMS

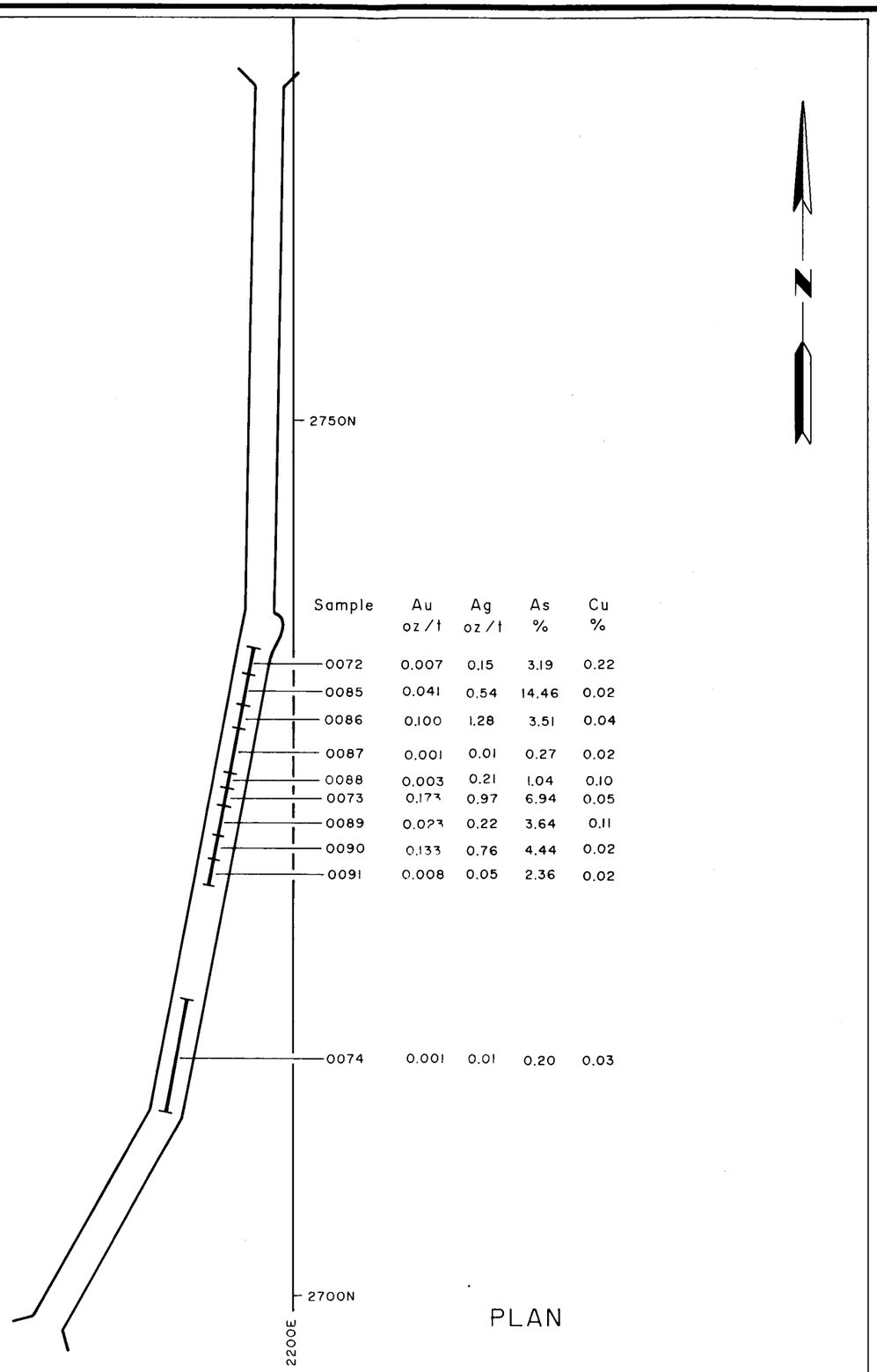
SCALE 1:200

0 5 10 15m

FIGURE 9




PROFILE




| Sample | Au oz/t | Ag oz/t | As % | Cu % |
|---|---|---|---|---|
| 0072 | 0.007 | 0.15 | 3.19 | 0.22 |
| 0085 | 0.041 | 0.54 | 14.46 | 0.02 |
| 0086 | 0.100 | 1.28 | 3.51 | 0.04 |
| 0087 | 0.001 | 0.01 | 0.27 | 0.02 |
| 0088 | 0.003 | 0.21 | 1.04 | 0.10 |
| 0073 | 0.173 | 0.97 | 6.94 | 0.05 |
| 0089 | 0.023 | 0.22 | 3.64 | 0.11 |
| 0090 | 0.133 | 0.76 | 4.44 | 0.02 |
| 0091 | 0.008 | 0.05 | 2.36 | 0.02 |
| 0074 | 0.001 | 0.01 | 0.20 | 0.03 |

PLAN

## EXPLANATION

TRENCH

0072 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

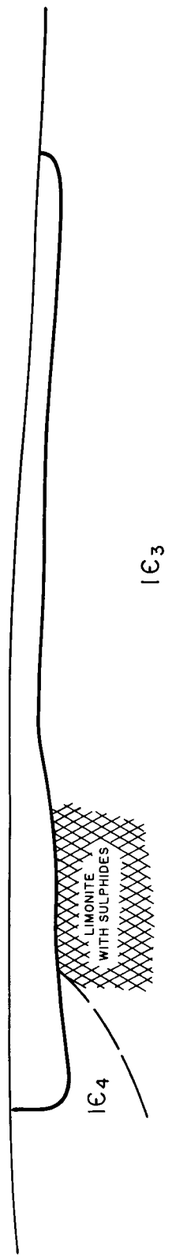
## TRENCH T-12

WEST ZONE - WHITE CLAIMS

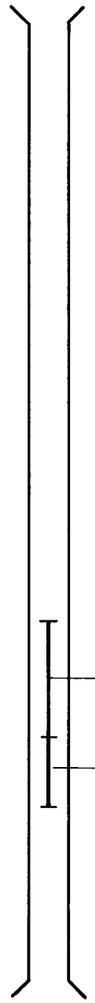
SCALE 1: 200

0 5 10 15 m

FIGURE 10




PROFILE




| Sample | Au oz/t | Ag oz/t | As % | Cu % |
|---|---|---|---|---|
| 0076 | 0.001 | 0.01 | 0.22 | 0.01 |
| 0075 | 0.009 | 0.02 | 4.49 | 0.03 |

PLAN




## EXPLANATION

TRENCH

0076 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

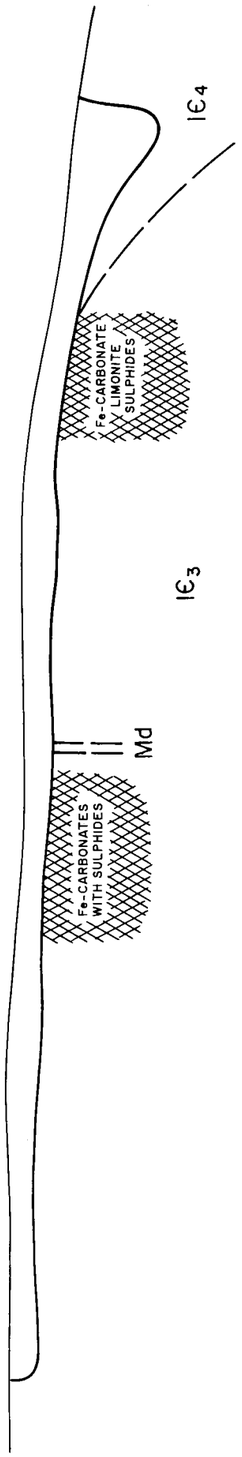
## TRENCH T-13

WEST ZONE - WHITE CLAIMS

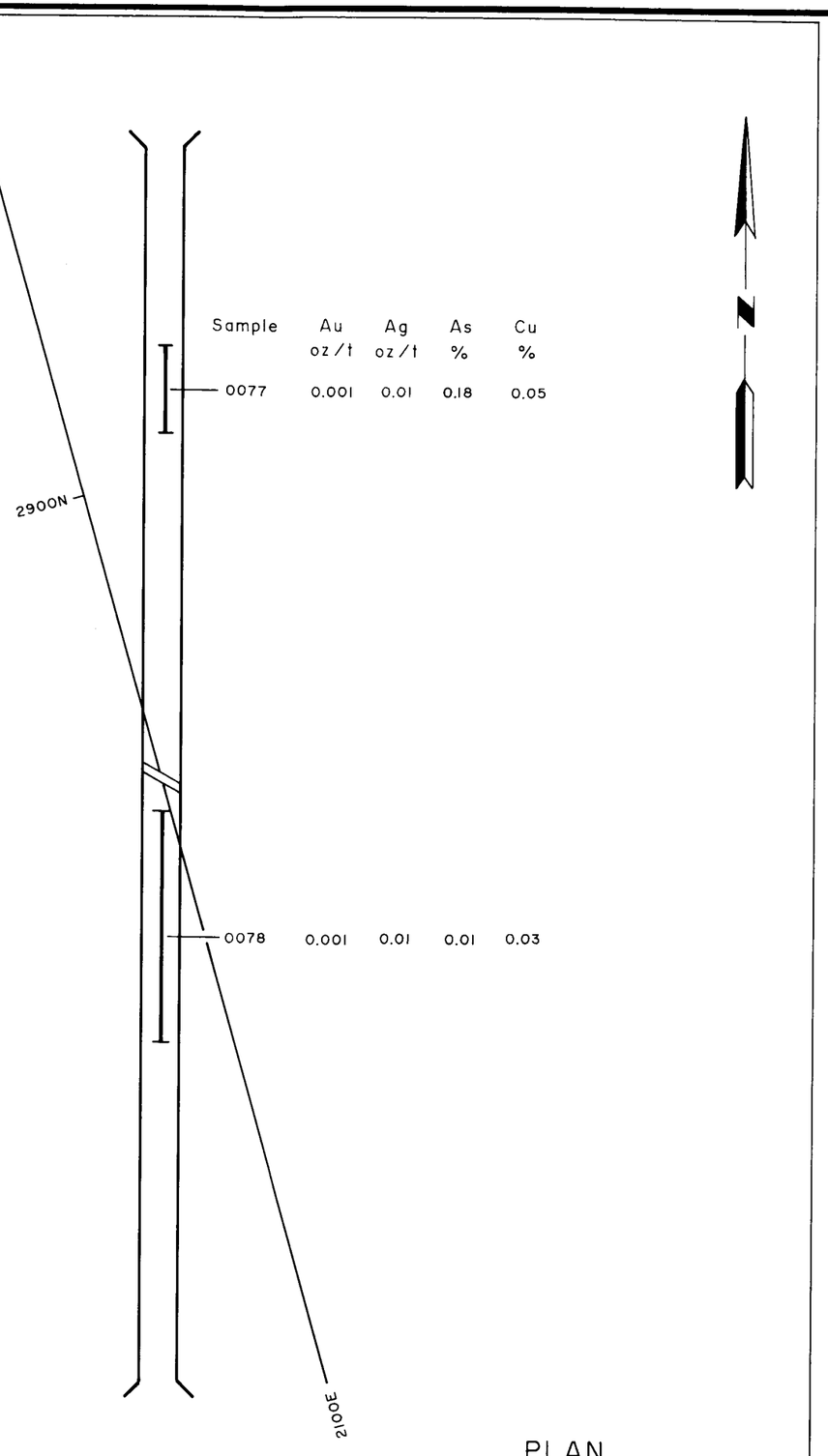
SCALE 1: 200

0 5 10 15m

FIGURE 11




PROFILE




PLAN

EXPLANATION

TRENCH

0077 SAMPLE INTERVAL AND NUMBER

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

MOUNTAIN PROVINCE MINING INC.

# PLAN AND PROFILE

## TRENCH T-14

WEST ZONE - WHITE CLAIMS

SCALE 1: 200

0 5 10 15m

FIGURE 12

KETZA PROJECT: 1989 ASSAY DATA
(Acme file #89-4251)

| Sample No. | Au oz/t | Ag oz/t | As % | Pb % | Cu % | Ag ppm | As ppm | Cu ppm | Pb ppm | Zn ppm | Cd ppm | Ba ppm | Mn ppm | Fe % | Mo ppm | Sb ppm | Bi ppm | W ppm | U ppm | Th ppm | Sr ppm | Ni ppm | Co ppm | Cr ppm | V ppm | La ppm | B ppm | Ca % | Na % | K % | Al % | Mg % | P % | Ti % |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| WEST ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0064 | 0.001 | 0.04 | 0.05 | - | 0.23 | 1.6 | 346 | 2117 | 24 | 55 | 4 | 49 | 4454 | 32.05 | 1 | 2 | 2 | 1 | 5 | 5 | 22 | 24 | 18 | 7 | 4 | 6 | 2 | 5.50 | 0.01 | 0.05 | 0.20 | 0.21 | 0.025 | 0.01 |
| 0065 | 0.001 | 0.01 | 0.01 | - | 0.01 | 0.5 | 92 | 57 | 2 | 26 | 3 | 10 | 5977 | 17.19 | 1 | 2 | 2 | 1 | 5 | 3 | 49 | 5 | 11 | 4 | 3 | 3 | 5 | 16.29 | 0.01 | 0.02 | 0.10 | 0.45 | 0.007 | 0.01 |
| 0066 | 0.001 | 0.01 | 0.02 | - | 0.01 | 0.7 | 158 | 109 | 3 | 37 | 4 | 9 | 6184 | 31.18 | 1 | 2 | 2 | 1 | 5 | 4 | 33 | 8 | 18 | 4 | 3 | 3 | 2 | 7.51 | 0.01 | 0.02 | 0.13 | 0.61 | 0.010 | 0.01 |
| 0067 | 0.001 | 0.02 | 0.03 | - | 0.01 | 0.3 | 217 | 103 | 10 | 19 | 1 | 12 | 2385 | 6.43 | 1 | 2 | 2 | 1 | 5 | 3 | 44 | 18 | 10 | 2 | 5 | 12 | 14 | 19.18 | 0.01 | 0.05 | 0.10 | 1.81 | 0.017 | 0.01 |
| 0068 | 0.001 | 0.02 | 0.02 | - | 0.01 | 0.3 | 148 | 109 | 7 | 24 | 3 | 5 | 4877 | 14.56 | 1 | 2 | 2 | 1 | 5 | 3 | 104 | 71 | 31 | 3 | 3 | 6 | 2 | 17.21 | 0.01 | 0.02 | 0.18 | 0.32 | 0.014 | 0.01 |
| 0069 | 0.001 | 0.49 | 0.08 | - | 1.22 | 14.5 | 619 | 12378 | 5 | 236 | 3 | 7 | 5664 | 38.91 | 1 | 2 | 2 | 1 | 5 | 2 | 6 | 527 | 112 | 3 | 3 | 2 | 2 | 0.40 | 0.01 | 0.02 | 0.12 | 0.17 | 0.001 | 0.01 |
| 0070 | 0.001 | 0.05 | 0.04 | - | 0.11 | 1.1 | 263 | 986 | 2 | 52 | 3 | 6 | 7596 | 28.01 | 1 | 2 | 2 | 1 | 5 | 2 | 32 | 78 | 48 | 7 | 6 | 2 | 2 | 4.28 | 0.01 | 0.02 | 0.31 | 0.66 | 0.004 | 0.01 |
| 0071 | 0.001 | 0.03 | 0.02 | - | 0.08 | 0.9 | 136 | 739 | 2 | 50 | 2 | 5 | 7646 | 32.55 | 1 | 2 | 2 | 1 | 5 | 1 | 10 | 82 | 33 | 4 | 3 | 2 | 2 | 0.69 | 0.01 | 0.01 | 0.09 | 0.67 | 0.001 | 0.01 |
| 0072 | 0.007 | 0.15 | 3.19 | - | 0.22 | 5.0 | 26440 | 2044 | 461 | 104 | 2 | 20 | 1173 | 27.00 | 1 | 2 | 3 | 1 | 5 | 3 | 61 | 17 | 11 | 4 | 3 | 5 | 6 | 0.63 | 0.01 | 0.07 | 0.19 | 0.06 | 0.024 | 0.01 |
| 0073 | 0.173 | 0.97 | 6.94 | - | 0.05 | 28.7 | 61573 | 502 | 1024 | 22 | 1 | 58 | 125 | 20.55 | 1 | 2 | 39 | 1 | 5 | 2 | 2270 | 5 | 7 | 3 | 4 | 2 | 6 | 0.64 | 0.01 | 0.57 | 0.15 | 0.04 | 0.017 | 0.01 |
| 0074 | 0.001 | 0.01 | 0.20 | - | 0.03 | 0.7 | 1552 | 281 | 21 | 50 | 3 | 4 | 7504 | 35.15 | 1 | 2 | 2 | 1 | 5 | 3 | 43 | 12 | 14 | 5 | 3 | 2 | 2 | 3.95 | 0.01 | 0.01 | 0.12 | 0.52 | 0.005 | 0.01 |
| 0075 | 0.009 | 0.02 | 4.49 | - | 0.03 | 1.3 | 36601 | 309 | 31 | 46 | 1 | 5 | 6629 | 43.15 | 1 | 19 | 2 | 1 | 5 | 3 | 63 | 14 | 22 | 7 | 3 | 2 | 2 | 0.19 | 0.01 | 0.03 | 0.36 | 0.10 | 0.006 | 0.01 |
| 0076 | 0.001 | 0.01 | 0.22 | - | 0.01 | 0.5 | 1706 | 68 | 5 | 42 | 4 | 2 | 8896 | 37.59 | 1 | 2 | 2 | 1 | 5 | 3 | 23 | 7 | 18 | 6 | 3 | 2 | 4 | 4.06 | 0.01 | 0.01 | 0.21 | 0.48 | 0.008 | 0.01 |
| 0077 | 0.001 | 0.01 | 0.18 | - | 0.05 | 0.9 | 1337 | 445 | 15 | 323 | 1 | 5 | 6548 | 48.74 | 1 | 17 | 2 | 1 | 5 | 4 | 15 | 35 | 28 | 4 | 5 | 2 | 2 | 0.12 | 0.01 | 0.01 | 0.24 | 0.06 | 0.003 | 0.01 |
| 0078 | 0.001 | 0.01 | 0.01 | - | 0.03 | 0.4 | 115 | 224 | 2 | 43 | 3 | 1 | 6554 | 23.40 | 1 | 2 | 2 | 1 | 5 | 3 | 35 | 12 | 16 | 5 | 6 | 2 | 2 | 8.89 | 0.01 | 0.01 | 0.56 | 1.35 | 0.009 | 0.01 |
| 0079 | 0.001 | 0.01 | 0.02 | - | 0.03 | 0.3 | 195 | 281 | 7 | 43 | 3 | 5 | 5995 | 22.60 | 1 | 2 | 2 | 1 | 5 | 3 | 90 | 28 | 18 | 3 | 3 | 2 | 2 | 8.33 | 0.01 | 0.02 | 0.09 | 1.58 | 0.015 | 0.01 |
| EAST ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0080 | 0.356 | 0.01 | 0.07 | - | 0.01 | 0.5 | 570 | 49 | 3 | 35 | 3 | 2 | 9152 | 19.08 | 1 | 2 | 2 | 2 | 9 | 3 | 255 | 5 | 10 | 3 | 4 | 2 | 2 | 10.24 | 0.01 | 0.01 | 0.47 | 1.26 | 0.001 | 0.01 |
| 0081 | 0.262 | 0.01 | 0.30 | - | 0.01 | 0.7 | 2276 | 57 | 9 | 46 | 4 | 1 | 10587 | 23.26 | 1 | 2 | 2 | 1 | 5 | 2 | 238 | 4 | 11 | 4 | 4 | 2 | 3 | 8.96 | 0.01 | 0.01 | 0.45 | 1.20 | 0.002 | 0.01 |
| 0082 | 0.367 | 0.02 | 2.28 | - | 0.02 | 1.0 | 15203 | 139 | 3 | 68 | 3 | 2 | 7654 | 35.00 | 1 | 2 | 2 | 1 | 5 | 3 | 49 | 11 | 24 | 7 | 11 | 2 | 6 | 2.29 | 0.01 | 0.01 | 2.26 | 1.04 | 0.001 | 0.01 |
| 0083 | 0.033 | 0.02 | 0.04 | - | 0.01 | 0.5 | 303 | 33 | 20 | 47 | 4 | 2 | 13424 | 31.38 | 1 | 2 | 2 | 1 | 5 | 2 | 124 | 1 | 12 | 5 | 2 | 2 | 2 | 4.28 | 0.01 | 0.01 | 0.24 | 1.32 | 0.002 | 0.01 |
| LAKE ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0084 | 0.013 | 36.64 | 0.99 | 57.97 | 0.40 | 169.9 | 5475 | 3571 | 15664 | 122 | 13 | 1 | 270 | 12.77 | 1 | 1204 | 2 | 1 | 5 | 1 | 1 | 3 | 5 | 1 | 1 | 2 | 3 | 0.10 | 0.01 | 0.01 | 0.03 | 0.02 | 0.001 | 0.01 |
| WEST ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0085 | 0.041 | 0.54 | 14.46 | - | 0.02 | 16.9 | 99999 | 227 | 1659 | 12 | 1 | 13 | 166 | 12.92 | 1 | 2 | 26 | 1 | 5 | 1 | 15 | 1 | 4 | 5 | 2 | 2 | 10 | 0.14 | 0.01 | 0.05 | 0.10 | 0.02 | 0.025 | 0.01 |
| 0086 | 0.100 | 1.28 | 3.51 | - | 0.04 | 41.3 | 32170 | 442 | 1705 | 33 | 1 | 52 | 462 | 10.33 | 1 | 26 | 40 | 1 | 5 | 2 | 40 | 13 | 9 | 27 | 2 | 6 | 7 | 0.24 | 0.01 | 0.12 | 0.14 | 0.04 | 0.029 | 0.01 |
| 0087 | 0.001 | 0.01 | 0.27 | - | 0.02 | 0.4 | 2440 | 230 | 50 | 59 | 1 | 18 | 923 | 7.91 | 1 | 4 | 2 | 1 | 5 | 13 | 49 | 32 | 16 | 3 | 2 | 19 | 8 | 3.05 | 0.01 | 0.11 | 0.23 | 0.12 | 0.041 | 0.01 |
| 0088 | 0.003 | 0.21 | 1.04 | - | 0.10 | 7.2 | 8897 | 977 | 298 | 63 | 1 | 29 | 1202 | 16.79 | 1 | 9 | 4 | 1 | 5 | 5 | 48 | 28 | 14 | 9 | 3 | 7 | 3 | 0.33 | 0.01 | 0.14 | 0.28 | 0.07 | 0.027 | 0.01 |
| 0089 | 0.023 | 0.22 | 3.64 | - | 0.11 | 6.7 | 31776 | 1063 | 304 | 29 | 1 | 66 | 757 | 15.52 | 1 | 2 | 15 | 1 | 5 | 2 | 133 | 37 | 12 | 12 | 6 | 5 | 15 | 0.87 | 0.01 | 0.15 | 0.20 | 0.09 | 0.052 | 0.01 |
| 0090 | 0.133 | 0.76 | 4.44 | - | 0.02 | 23.8 | 40502 | 165 | 839 | 17 | 1 | 53 | 39 | 10.66 | 1 | 9 | 21 | 1 | 5 | 1 | 433 | 2 | 4 | 34 | 3 | 2 | 2 | 0.74 | 0.01 | 0.37 | 0.10 | 0.03 | 0.016 | 0.01 |
| 0091 | 0.008 | 0.05 | 2.36 | - | 0.02 | 1.9 | 19704 | 230 | 116 | 409 | 3 | 16 | 1771 | 8.42 | 1 | 2 | 2 | 1 | 5 | 7 | 104 | 27 | 19 | 6 | 5 | 9 | 5 | 4.40 | 0.01 | 0.14 | 0.19 | 0.18 | 0.023 | 0.01 |

KETZA PROJECT: 1989 ANALYTICAL DATA

(Acme file #89-4251)

| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| WEST ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2000E 3075N | 12 | 0.8 | 823 | 64 | 167 | 657 | 2 | 31 | 1402 | 8.41 | 1 | 3 | 2 | 1 | 5 | 5 | 24 | 52 | 27 | 10 | 7 | 28 | 2 | 0.75 | 0.01 | 0.03 | 0.39 | 0.14 | 0.075 | 0.01 |
| 2000E 3025N | 6 | 0.3 | 231 | 53 | 33 | 100 | 1 | 35 | 1981 | 10.92 | 1 | 4 | 2 | 1 | 5 | 4 | 22 | 37 | 23 | 11 | 11 | 40 | 4 | 0.72 | 0.01 | 0.03 | 0.62 | 0.20 | 0.070 | 0.01 |
| 2000E 3000N | 1 | 0.2 | 330 | 60 | 15 | 57 | 1 | 66 | 2130 | 7.06 | 1 | 2 | 2 | 1 | 5 | 15 | 16 | 65 | 34 | 7 | 4 | 86 | 2 | 0.64 | 0.01 | 0.04 | 0.34 | 0.11 | 0.063 | 0.01 |
| 2000E 2975N | 1 | 0.5 | 766 | 97 | 97 | 285 | 1 | 21 | 605 | 6.16 | 1 | 3 | 2 | 1 | 5 | 3 | 17 | 36 | 16 | 10 | 9 | 23 | 4 | 0.73 | 0.01 | 0.03 | 0.52 | 0.15 | 0.062 | 0.01 |
| 2000E 2925N | 3 | 0.5 | 253 | 82 | 120 | 70 | 1 | 51 | 1092 | 5.59 | 1 | 2 | 2 | 1 | 5 | 1 | 31 | 31 | 13 | 14 | 15 | 19 | 4 | 2.05 | 0.01 | 0.02 | 0.67 | 0.27 | 0.083 | 0.01 |
| 2000E 2900N | 139 | 1.0 | 2645 | 93 | 88 | 82 | 1 | 44 | 9322 | 26.53 | 1 | 13 | 2 | 1 | 5 | 2 | 34 | 33 | 28 | 20 | 12 | 12 | 2 | 1.64 | 0.01 | 0.02 | 0.71 | 0.36 | 0.048 | 0.01 |
| 2000E 2875N | 6 | 0.4 | 86 | 28 | 35 | 85 | 1 | 73 | 1830 | 5.56 | 1 | 2 | 2 | 1 | 5 | 1 | 65 | 25 | 14 | 16 | 13 | 26 | 3 | 6.75 | 0.01 | 0.02 | 0.51 | 1.18 | 0.105 | 0.01 |
| 2000E 2825N | 9 | 1.0 | 509 | 342 | 68 | 57 | 1 | 19 | 1193 | 8.74 | 1 | 3 | 2 | 1 | 5 | 3 | 20 | 53 | 29 | 11 | 5 | 22 | 5 | 1.23 | 0.01 | 0.03 | 0.45 | 0.17 | 0.049 | 0.01 |
| 2000E 2800N | 3 | 0.5 | 362 | 327 | 84 | 50 | 1 | 33 | 1981 | 9.96 | 1 | 2 | 2 | 1 | 5 | 1 | 18 | 53 | 30 | 8 | 7 | 16 | 3 | 0.70 | 0.01 | 0.03 | 0.44 | 0.11 | 0.060 | 0.01 |
| 2000E 2775N | 1 | 0.2 | 124 | 562 | 16 | 34 | 1 | 17 | 548 | 4.67 | 1 | 2 | 2 | 2 | 5 | 2 | 14 | 48 | 26 | 9 | 6 | 14 | 6 | 0.67 | 0.01 | 0.02 | 0.63 | 0.18 | 0.046 | 0.01 |
| 2000E 2725N | 1 | 0.5 | 46 | 63 | 28 | 157 | 1 | 55 | 493 | 5.68 | 4 | 3 | 3 | 1 | 5 | 3 | 16 | 68 | 20 | 8 | 10 | 23 | 2 | 0.90 | 0.01 | 0.02 | 0.65 | 0.12 | 0.073 | 0.01 |
| 2000E 2675N | 1 | 0.4 | 85 | 99 | 25 | 157 | 1 | 35 | 239 | 3.59 | 22 | 11 | 2 | 1 | 5 | 6 | 10 | 50 | 13 | 19 | 55 | 34 | 6 | 0.14 | 0.01 | 0.03 | 0.94 | 0.20 | 0.087 | 0.01 |
| 2000E 2625N | 1 | 0.1 | 59 | 49 | 19 | 90 | 1 | 31 | 260 | 5.34 | 12 | 4 | 2 | 1 | 5 | 6 | 6 | 36 | 12 | 25 | 33 | 33 | 2 | 0.03 | 0.01 | 0.03 | 1.55 | 0.46 | 0.056 | 0.01 |
| 2000E 2575N | 1 | 0.1 | 53 | 54 | 22 | 156 | 1 | 32 | 477 | 5.05 | 9 | 3 | 2 | 1 | 5 | 10 | 7 | 53 | 19 | 22 | 31 | 43 | 2 | 0.07 | 0.01 | 0.02 | 1.29 | 0.38 | 0.056 | 0.02 |
| 2000E 2525N | 1 | 0.1 | 85 | 36 | 38 | 111 | 1 | 33 | 858 | 5.61 | 2 | 2 | 2 | 1 | 5 | 1 | 5 | 38 | 18 | 26 | 24 | 37 | 2 | 0.05 | 0.01 | 0.02 | 1.48 | 0.42 | 0.044 | 0.02 |
| 2000E 2475N | 5 | 0.3 | 846 | 62 | 214 | 127 | 1 | 33 | 1332 | 5.67 | 2 | 2 | 2 | 1 | 5 | 1 | 8 | 32 | 13 | 19 | 26 | 26 | 2 | 0.14 | 0.01 | 0.03 | 0.99 | 0.23 | 0.099 | 0.02 |
| 2000E 2425N | 1 | 0.2 | 238 | 70 | 29 | 96 | 1 | 53 | 1064 | 5.37 | 1 | 2 | 2 | 1 | 5 | 4 | 17 | 34 | 13 | 21 | 27 | 32 | 2 | 0.47 | 0.01 | 0.03 | 0.90 | 0.32 | 0.083 | 0.03 |
| 2000E 2375N | 2 | 0.2 | 1985 | 43 | 31 | 100 | 1 | 52 | 1176 | 6.98 | 1 | 2 | 2 | 1 | 5 | 1 | 19 | 30 | 15 | 14 | 15 | 28 | 5 | 0.79 | 0.01 | 0.02 | 0.95 | 0.17 | 0.120 | 0.01 |
| 2000E 2325N | 4 | 0.4 | 961 | 29 | 24 | 39 | 1 | 25 | 514 | 5.67 | 1 | 2 | 2 | 1 | 5 | 7 | 7 | 62 | 18 | 5 | 6 | 50 | 3 | 0.13 | 0.01 | 0.02 | 0.31 | 0.07 | 0.032 | 0.01 |
| 2000E 2275N | 36 | 2.7 | 2976 | 1358 | 83 | 425 | 1 | 60 | 4715 | 19.49 | 2 | 12 | 4 | 1 | 5 | 2 | 44 | 253 | 250 | 23 | 13 | 19 | 2 | 2.73 | 0.01 | 0.03 | 0.38 | 0.21 | 0.225 | 0.01 |
| 2000E 2225N | 1 | 0.1 | 137 | 57 | 27 | 105 | 1 | 36 | 634 | 4.25 | 1 | 2 | 2 | 2 | 5 | 1 | 24 | 23 | 12 | 11 | 16 | 22 | 2 | 1.27 | 0.01 | 0.02 | 0.80 | 0.15 | 0.093 | 0.01 |
| 2000E 2175N | 1 | 0.1 | 47 | 46 | 23 | 48 | 1 | 38 | 440 | 4.74 | 1 | 2 | 2 | 1 | 5 | 2 | 14 | 31 | 13 | 18 | 17 | 31 | 4 | 0.54 | 0.01 | 0.02 | 1.01 | 0.29 | 0.053 | 0.01 |
| 2000E 2125N | 1 | 0.1 | 149 | 174 | 39 | 70 | 1 | 34 | 632 | 5.73 | 1 | 3 | 2 | 1 | 5 | 1 | 19 | 77 | 28 | 7 | 9 | 23 | 2 | 1.20 | 0.01 | 0.03 | 0.58 | 0.10 | 0.090 | 0.01 |
| 2100E 3075N | 14 | 1.0 | 529 | 90 | 207 | 248 | 1 | 47 | 1438 | 8.3 | 2 | 4 | 3 | 1 | 5 | 5 | 21 | 83 | 41 | 10 | 6 | 31 | 8 | 0.71 | 0.01 | 0.04 | 0.32 | 0.11 | 0.059 | 0.01 |
| 2100E 3025N | 7 | 0.3 | 445 | 67 | 93 | 120 | 1 | 17 | 568 | 7.12 | 1 | 2 | 2 | 1 | 5 | 5 | 19 | 55 | 23 | 17 | 8 | 51 | 2 | 0.46 | 0.01 | 0.02 | 0.86 | 0.43 | 0.044 | 0.01 |
| 2100E 3000N | 2 | 0.7 | 352 | 117 | 157 | 121 | 1 | 37 | 1148 | 10.46 | 1 | 3 | 2 | 1 | 5 | 5 | 17 | 75 | 29 | 20 | 14 | 32 | 6 | 0.30 | 0.01 | 0.03 | 0.98 | 0.43 | 0.048 | 0.01 |
| 2100E 2975N | 10 | 0.6 | 437 | 67 | 235 | 127 | 1 | 21 | 853 | 5.62 | 1 | 3 | 2 | 1 | 5 | 4 | 65 | 41 | 22 | 7 | 4 | 36 | 2 | 3.78 | 0.01 | 0.03 | 0.22 | 0.11 | 0.069 | 0.01 |
| 2100E 2950N | 55 | 3.6 | 2389 | 186 | 1417 | 606 | 3 | 26 | 1152 | 7.51 | 1 | 9 | 2 | 1 | 5 | 1 | 28 | 42 | 22 | 7 | 6 | 20 | 2 | 1.21 | 0.01 | 0.03 | 0.33 | 0.10 | 0.061 | 0.01 |
| 2100E 2925N | 79 | 2.1 | 6687 | 163 | 589 | 629 | 11 | 52 | 2087 | 10.56 | 1 | 12 | 2 | 1 | 5 | 2 | 93 | 43 | 29 | 12 | 6 | 19 | 2 | 2.93 | 0.01 | 0.03 | 0.34 | 0.18 | 0.071 | 0.01 |
| 2100E 2900N | 32 | 7.4 | 2769 | 2918 | 1051 | 556 | 2 | 16 | 3719 | 18.97 | 1 | 19 | 4 | 1 | 5 | 8 | 18 | 96 | 194 | 16 | 4 | 21 | 5 | 0.45 | 0.01 | 0.05 | 0.28 | 0.09 | 0.039 | 0.01 |
| 2100E 2875N | 12 | 2.4 | 533 | 94 | 442 | 132 | 1 | 15 | 538 | 4.89 | 1 | 9 | 2 | 1 | 5 | 8 | 36 | 40 | 20 | 4 | 2 | 39 | 2 | 1.95 | 0.01 | 0.03 | 0.19 | 0.05 | 0.062 | 0.01 |
| 2100E 2825N | 18 | 2.1 | 1816 | 221 | 543 | 87 | 1 | 22 | 580 | 6.61 | 1 | 9 | 2 | 1 | 5 | 5 | 20 | 40 | 18 | 7 | 6 | 31 | 2 | 0.57 | 0.01 | 0.03 | 0.30 | 0.08 | 0.049 | 0.01 |
| 2100E 2775N | 5 | 0.2 | 340 | 103 | 64 | 115 | 1 | 27 | 932 | 5.44 | 1 | 2 | 2 | 1 | 5 | 4 | 14 | 55 | 32 | 13 | 8 | 33 | 4 | 0.43 | 0.01 | 0.03 | 0.61 | 0.20 | 0.052 | 0.01 |
| 2100E 2725N | 3 | 0.5 | 87 | 928 | 19 | 30 | 1 | 24 | 1282 | 5.68 | 1 | 2 | 2 | 1 | 5 | 7 | 13 | 49 | 30 | 5 | 4 | 44 | 2 | 0.46 | 0.01 | 0.04 | 0.23 | 0.07 | 0.037 | 0.01 |
| 2100E 2675N | 2 | 0.5 | 45 | 147 | 40 | 63 | 1 | 45 | 330 | 3.85 | 9 | 4 | 3 | 1 | 5 | 1 | 20 | 34 | 13 | 8 | 18 | 21 | 2 | 1.19 | 0.01 | 0.03 | 0.42 | 0.10 | 0.058 | 0.01 |
| 2100E 2625N | 4 | 0.5 | 128 | 236 | 50 | 142 | 1 | 66 | 1089 | 5.01 | 12 | 2 | 2 | 1 | 5 | 4 | 23 | 51 | 15 | 10 | 29 | 24 | 2 | 0.77 | 0.01 | 0.03 | 0.50 | 0.17 | 0.092 | 0.01 |
| 2100E 2575N | 1 | 0.1 | 50 | 42 | 19 | 88 | 1 | 53 | 208 | 2.59 | 9 | 2 | 2 | 1 | 5 | 1 | 7 | 20 | 6 | 9 | 31 | 11 | 2 | 0.14 | 0.01 | 0.03 | 0.44 | 0.04 | 0.097 | 0.01 |
| 2100E 2525N | 64 | 1.4 | 2268 | 242 | 202 | 287 | 2 | 47 | 1813 | 9.3 | 3 | 3 | 11 | 1 | 5 | 2 | 17 | 87 | 35 | 11 | 14 | 25 | 3 | 0.39 | 0.01 | 0.03 | 0.50 | 0.12 | 0.081 | 0.01 |
| 2100E 2475N | 18 | 0.4 | 562 | 87 | 82 | 140 | 1 | 50 | 954 | 6.12 | 1 | 3 | 3 | 1 | 8 | 9 | 20 | 42 | 18 | 18 | 20 | 33 | 7 | 0.75 | 0.01 | 0.03 | 0.64 | 0.28 | 0.095 | 0.03 |
| 2100E 2450N | 4 | 0.4 | 529 | 54 | 75 | 165 | 1 | 52 | 646 | 5.54 | 1 | 2 | 2 | 1 | 6 | 2 | 22 | 29 | 12 | 18 | 23 | 28 | 3 | 0.82 | 0.01 | 0.02 | 0.90 | 0.26 | 0.092 | 0.02 |
| 2100E 2425N | 10 | 0.4 | 661 | 70 | 74 | 168 | 1 | 43 | 689 | 5.99 | 1 | 2 | 2 | 1 | 6 | 2 | 18 | 29 | 12 | 14 | 19 | 30 | 6 | 0.80 | 0.01 | 0.02 | 0.86 | 0.22 | 0.080 | 0.02 |
| 2100E 2375N | 7 | 0.2 | 217 | 59 | 27 | 86 | 1 | 60 | 1884 | 8.61 | 1 | 2 | 2 | 1 | 5 | 3 | 21 | 38 | 23 | 18 | 23 | 37 | 4 | 0.73 | 0.01 | 0.03 | 0.80 | 0.27 | 0.088 | 0.02 |
| 2100E 2325N | 1 | 0.1 | 112 | 32 | 27 | 70 | 1 | 65 | 1353 | 6.57 | 1 | 2 | 3 | 1 | 5 | 1 | 25 | 28 | 15 | 14 | 20 | 26 | 2 | 1.08 | 0.01 | 0.03 | 0.86 | 0.22 | 0.082 | 0.02 |
| 2100E 2275N | 6 | 0.3 | 215 | 187 | 32 | 78 | 1 | 49 | 945 | 5.32 | 1 | 2 | 2 | 1 | 5 | 2 | 84 | 38 | 19 | 14 | 17 | 19 | 3 | 8.28 | 0.01 | 0.02 | 0.57 | 0.32 | 0.070 | 0.02 |
| 2100E 2225N | 3 | 0.1 | 51 | 50 | 34 | 110 | 1 | 61 | 417 | 4.77 | 1 | 2 | 2 | 1 | 5 | 1 | 29 | 25 | 9 | 15 | 23 | 33 | 2 | 1.52 | 0.01 | 0.02 | 1.06 | 0.25 | 0.150 | 0.01 |
| 2100E 2175N | 1 | 0.1 | 63 | 92 | 17 | 66 | 1 | 46 | 706 | 5.22 | 1 | 2 | 2 | 1 | 5 | 5 | 14 | 42 | 18 | 18 | 18 | 41 | 2 | 0.45 | 0.01 | 0.02 | 0.82 | 0.30 | 0.065 | 0.02 |
| 2100E 2125N | 1 | 0.1 | 29 | 27 | 20 | 128 | 1 | 292 | 794 | 5.35 | 1 | 2 | 2 | 1 | 5 | 1 | 20 | 25 | 11 | 23 | 20 | 31 | 6 | 1.33 | 0.01 | 0.03 | 1.31 | 0.98 | 0.121 | 0.01 |
| 2100E 2100N | 5 | 0.2 | 117 | 178 | 25 | 43 | 1 | 40 | 1125 | 8.24 | 1 | 2 | 2 | 1 | 5 | 4 | 29 | 70 | 52 | 15 | 11 | 26 | 6 | 1.92 | 0.01 | 0.03 | 0.52 | 0.42 | 0.071 | 0.01 |

| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| 2200E 3075N | 4 | 0.4 | 79 | 72 | 29 | 149 | 1 | 42 | 789 | 6.2 | 5 | 2 | 3 | 1 | 5 | 7 | 28 | 58 | 20 | 14 | 16 | 12 | 7 | 3.13 | 0.01 | 0.03 | 0.32 | 1.38 | 0.093 | 0.01 |
| 2200E 3025N | 8 | 0.4 | 88 | 86 | 30 | 137 | 1 | 64 | 240 | 5.72 | 4 | 2 | 2 | 1 | 5 | 8 | 28 | 66 | 21 | 7 | 12 | 15 | 7 | 0.88 | 0.01 | 0.04 | 0.51 | 0.07 | 0.098 | 0.01 |
| 2200E 2975N | 8 | 0.6 | 121 | 125 | 49 | 62 | 1 | 59 | 293 | 4.79 | 9 | 3 | 2 | 1 | 5 | 3 | 24 | 42 | 12 | 6 | 19 | 13 | 3 | 0.87 | 0.01 | 0.03 | 0.41 | 0.07 | 0.163 | 0.01 |
| 2200E 2925N | 12 | 0.7 | 175 | 820 | 51 | 99 | 1 | 41 | 1233 | 7.75 | 6 | 3 | 2 | 1 | 5 | 3 | 22 | 58 | 32 | 9 | 16 | 22 | 3 | 0.78 | 0.01 | 0.03 | 0.42 | 0.08 | 0.139 | 0.01 |
| 2200E 2875N | 23 | 0.5 | 212 | 116 | 34 | 59 | 1 | 62 | 612 | 5.09 | 5 | 2 | 2 | 1 | 5 | 2 | 19 | 32 | 14 | 9 | 16 | 15 | 4 | 0.77 | 0.01 | 0.03 | 0.65 | 0.13 | 0.128 | 0.01 |
| 2200E 2825N | 84 | 1.1 | 1803 | 551 | 63 | 169 | 1 | 31 | 8232 | 24.77 | 1 | 11 | 2 | 1 | 5 | 1 | 20 | 55 | 49 | 14 | 8 | 12 | 4 | 0.49 | 0.01 | 0.02 | 0.32 | 0.18 | 0.051 | 0.01 |
| 2200E 2775N | 17 | 0.9 | 229 | 1871 | 15 | 49 | 1 | 22 | 1641 | 7.47 | 1 | 2 | 3 | 1 | 5 | 5 | 15 | 133 | 77 | 10 | 6 | 30 | 4 | 0.32 | 0.01 | 0.04 | 0.29 | 0.07 | 0.040 | 0.01 |
| 2200E 2725N | 1 | 0.1 | 73 | 115 | 15 | 44 | 1 | 16 | 680 | 5.33 | 1 | 2 | 2 | 1 | 5 | 10 | 51 | 52 | 27 | 7 | 3 | 27 | 5 | 5.36 | 0.01 | 0.04 | 0.19 | 0.15 | 0.046 | 0.01 |
| 2200E 2675N | 13 | 0.3 | 378 | 102 | 33 | 66 | 1 | 40 | 826 | 5.88 | 1 | 2 | 3 | 1 | 5 | 1 | 67 | 38 | 16 | 10 | 12 | 17 | 6 | 4.21 | 0.01 | 0.03 | 0.49 | 0.24 | 0.058 | 0.01 |
| 2200E 2625N | 31 | 0.3 | 679 | 111 | 31 | 89 | 1 | 31 | 1021 | 8.07 | 1 | 3 | 2 | 1 | 5 | 1 | 45 | 38 | 18 | 12 | 11 | 16 | 7 | 2.42 | 0.01 | 0.03 | 0.48 | 0.24 | 0.059 | 0.01 |
| 2200E 2575N | 22 | 0.1 | 447 | 120 | 16 | 51 | 1 | 27 | 719 | 6.47 | 1 | 2 | 2 | 1 | 5 | 2 | 30 | 47 | 25 | 11 | 10 | 16 | 11 | 1.82 | 0.01 | 0.03 | 0.47 | 0.22 | 0.054 | 0.01 |
| 2200E 2525N | 7 | 0.4 | 330 | 326 | 45 | 115 | 1 | 52 | 1897 | 8 | 1 | 2 | 3 | 1 | 5 | 4 | 22 | 47 | 22 | 18 | 16 | 28 | 6 | 0.83 | 0.01 | 0.04 | 0.76 | 0.26 | 0.098 | 0.01 |
| 2200E 2475N | 4 | 0.1 | 78 | 61 | 27 | 52 | 1 | 35 | 1058 | 6.95 | 1 | 2 | 2 | 1 | 5 | 3 | 20 | 40 | 20 | 12 | 12 | 25 | 10 | 1.31 | 0.01 | 0.03 | 0.51 | 0.17 | 0.073 | 0.01 |
| 2200E 2425N | 9 | 0.2 | 382 | 32 | 29 | 61 | 1 | 38 | 383 | 3.06 | 1 | 2 | 3 | 1 | 5 | 1 | 31 | 17 | 8 | 7 | 12 | 13 | 2 | 1.82 | 0.02 | 0.02 | 0.60 | 0.28 | 0.069 | 0.01 |
| 2200E 2375N | 9 | 0.3 | 523 | 99 | 60 | 133 | 1 | 54 | 715 | 5.98 | 1 | 2 | 2 | 2 | 5 | 4 | 31 | 46 | 18 | 18 | 22 | 27 | 2 | 1.62 | 0.01 | 0.03 | 0.77 | 0.31 | 0.088 | 0.02 |
| 2200E 2350N | 29 | 0.3 | 415 | 81 | 44 | 113 | 1 | 54 | 1091 | 7.54 | 1 | 4 | 2 | 1 | 5 | 5 | 20 | 52 | 22 | 20 | 20 | 32 | 4 | 0.60 | 0.01 | 0.03 | 0.75 | 0.30 | 0.075 | 0.02 |
| 2200E 2325N | 14 | 0.3 | 373 | 83 | 40 | 125 | 1 | 67 | 1305 | 6.36 | 1 | 2 | 2 | 1 | 5 | 1 | 36 | 42 | 17 | 16 | 18 | 27 | 5 | 2.13 | 0.01 | 0.02 | 0.78 | 0.27 | 0.108 | 0.01 |
| 2200E 2275N | 5 | 0.1 | 77 | 47 | 25 | 76 | 1 | 51 | 453 | 4.29 | 1 | 2 | 2 | 1 | 5 | 3 | 18 | 34 | 11 | 20 | 25 | 32 | 4 | 0.52 | 0.01 | 0.03 | 1.04 | 0.34 | 0.085 | 0.03 |
| 2200E 2225N | 2 | 0.1 | 29 | 32 | 21 | 88 | 1 | 54 | 463 | 4.54 | 1 | 2 | 2 | 1 | 5 | 1 | 23 | 28 | 11 | 18 | 20 | 26 | 2 | 0.96 | 0.01 | 0.02 | 1.03 | 0.30 | 0.073 | 0.01 |
| 2200E 2175N | 23 | 0.4 | 109 | 1762 | 16 | 72 | 1 | 56 | 653 | 4.91 | 1 | 2 | 2 | 1 | 5 | 5 | 18 | 77 | 29 | 19 | 22 | 36 | 6 | 0.46 | 0.01 | 0.03 | 0.88 | 0.31 | 0.067 | 0.03 |
| 2200E 2150N | 1 | 0.1 | 27 | 98 | 14 | 58 | 1 | 70 | 298 | 3.48 | 1 | 2 | 2 | 1 | 5 | 1 | 16 | 32 | 10 | 22 | 28 | 23 | 2 | 0.41 | 0.01 | 0.03 | 1.28 | 0.38 | 0.065 | 0.03 |
| 2200E 2125N | 7 | 0.1 | 50 | 61 | 21 | 80 | 1 | 50 | 482 | 4.47 | 1 | 2 | 2 | 1 | 5 | 1 | 16 | 35 | 12 | 23 | 27 | 26 | 2 | 0.58 | 0.01 | 0.03 | 1.20 | 0.34 | 0.070 | 0.02 |
| 2300E 3075N | 21 | 1.1 | 68 | 203 | 87 | 171 | 1 | 64 | 284 | 5.01 | 10 | 5 | 3 | 1 | 5 | 2 | 27 | 64 | 16 | 5 | 16 | 15 | 3 | 0.48 | 0.02 | 0.03 | 0.64 | 0.07 | 0.149 | 0.01 |
| 2300E 3025N | 10 | 1.0 | 58 | 150 | 59 | 192 | 1 | 45 | 408 | 6.14 | 8 | 2 | 2 | 1 | 5 | 7 | 23 | 59 | 19 | 6 | 14 | 15 | 5 | 0.53 | 0.01 | 0.04 | 0.41 | 0.13 | 0.121 | 0.01 |
| 2300E 2975N | 8 | 0.7 | 29 | 104 | 24 | 105 | 1 | 41 | 352 | 5.18 | 3 | 2 | 2 | 1 | 5 | 4 | 14 | 42 | 19 | 5 | 9 | 14 | 9 | 0.68 | 0.01 | 0.03 | 0.33 | 0.07 | 0.089 | 0.01 |
| 2300E 2925N | 4 | 0.5 | 20 | 62 | 24 | 86 | 1 | 50 | 315 | 4.7 | 2 | 2 | 2 | 1 | 5 | 4 | 11 | 33 | 16 | 7 | 8 | 14 | 7 | 0.36 | 0.01 | 0.03 | 0.38 | 0.08 | 0.046 | 0.01 |
| 2300E 2875N | 5 | 0.4 | 13 | 38 | 12 | 77 | 1 | 48 | 294 | 3.85 | 1 | 2 | 2 | 1 | 5 | 3 | 11 | 26 | 13 | 8 | 9 | 11 | 2 | 0.51 | 0.01 | 0.03 | 0.44 | 0.10 | 0.052 | 0.01 |
| 2300E 2825N | 10 | 0.5 | 33 | 55 | 24 | 102 | 1 | 43 | 344 | 4.46 | 2 | 2 | 2 | 1 | 5 | 3 | 16 | 35 | 16 | 9 | 11 | 15 | 4 | 0.69 | 0.01 | 0.03 | 0.46 | 0.14 | 0.069 | 0.01 |
| 2300E 2775N | 10 | 0.5 | 29 | 40 | 19 | 101 | 1 | 48 | 316 | 4.64 | 2 | 2 | 2 | 1 | 5 | 5 | 13 | 39 | 15 | 11 | 14 | 20 | 2 | 0.49 | 0.01 | 0.03 | 0.53 | 0.15 | 0.080 | 0.01 |
| 2300E 2725N | 20 | 0.9 | 189 | 199 | 107 | 216 | 1 | 47 | 673 | 5.67 | 3 | 9 | 2 | 2 | 6 | 5 | 16 | 44 | 18 | 10 | 16 | 20 | 7 | 0.48 | 0.01 | 0.03 | 0.53 | 0.11 | 0.084 | 0.01 |
| 2300E 2700N | 9 | 0.6 | 85 | 125 | 68 | 124 | 1 | 38 | 565 | 4.93 | 3 | 9 | 4 | 1 | 5 | 7 | 16 | 47 | 18 | 9 | 12 | 24 | 4 | 0.43 | 0.01 | 0.03 | 0.47 | 0.10 | 0.079 | 0.01 |
| 2300E 2675N | 6 | 0.1 | 70 | 67 | 31 | 154 | 1 | 29 | 502 | 5.69 | 2 | 3 | 2 | 1 | 5 | 9 | 12 | 62 | 23 | 12 | 12 | 34 | 3 | 0.28 | 0.01 | 0.03 | 0.48 | 0.13 | 0.072 | 0.01 |
| 2300E 2625N | 5 | 0.1 | 62 | 44 | 18 | 67 | 1 | 54 | 456 | 3.66 | 2 | 2 | 2 | 1 | 5 | 3 | 19 | 33 | 12 | 15 | 21 | 32 | 4 | 0.43 | 0.01 | 0.03 | 0.74 | 0.27 | 0.124 | 0.02 |
| 2300E 2600N | 7 | 0.1 | 24 | 25 | 21 | 62 | 1 | 50 | 356 | 3.48 | 2 | 2 | 2 | 1 | 5 | 1 | 10 | 29 | 9 | 22 | 26 | 28 | 3 | 0.22 | 0.01 | 0.03 | 1.08 | 0.33 | 0.080 | 0.02 |
| 2300E 2575N | 6 | 0.1 | 27 | 22 | 24 | 71 | 1 | 49 | 659 | 3.45 | 1 | 2 | 2 | 1 | 5 | 1 | 11 | 24 | 11 | 19 | 25 | 21 | 5 | 0.25 | 0.01 | 0.04 | 0.94 | 0.26 | 0.105 | 0.01 |
| 2300E 2550N | 3 | 0.1 | 38 | 24 | 55 | 58 | 1 | 43 | 590 | 5.19 | 1 | 2 | 3 | 1 | 5 | 2 | 11 | 27 | 10 | 21 | 24 | 29 | 2 | 0.27 | 0.01 | 0.02 | 1.02 | 0.31 | 0.079 | 0.02 |
| 2300E 2525N | 2 | 0.1 | 80 | 44 | 23 | 62 | 1 | 54 | 1054 | 5.95 | 2 | 2 | 2 | 1 | 5 | 2 | 10 | 32 | 13 | 19 | 23 | 23 | 5 | 0.25 | 0.01 | 0.02 | 0.92 | 0.26 | 0.069 | 0.02 |
| 2300E 2500N | 9 | 0.2 | 128 | 75 | 40 | 66 | 1 | 50 | 1424 | 6.82 | 1 | 4 | 2 | 1 | 5 | 8 | 29 | 40 | 18 | 17 | 16 | 25 | 7 | 1.93 | 0.01 | 0.03 | 0.60 | 0.25 | 0.101 | 0.02 |
| 2300E 2475N | 4 | 0.2 | 91 | 57 | 45 | 76 | 1 | 50 | 1371 | 7.42 | 1 | 2 | 2 | 1 | 5 | 1 | 20 | 38 | 20 | 15 | 16 | 22 | 3 | 1.03 | 0.01 | 0.03 | 0.69 | 0.21 | 0.097 | 0.01 |
| 2300E 2425N | 11 | 0.2 | 34 | 38 | 43 | 68 | 1 | 63 | 994 | 4.53 | 1 | 2 | 2 | 1 | 5 | 2 | 68 | 36 | 13 | 22 | 24 | 30 | 3 | 5.15 | 0.01 | 0.03 | 0.90 | 0.37 | 0.098 | 0.03 |
| 2300E 2400N | 3 | 0.2 | 26 | 39 | 25 | 54 | 1 | 47 | 531 | 3.47 | 1 | 2 | 2 | 1 | 5 | 3 | 71 | 28 | 10 | 18 | 21 | 19 | 5 | 6.10 | 0.01 | 0.02 | 0.69 | 0.33 | 0.080 | 0.03 |
| 2300E 2375N | 6 | 0.2 | 32 | 30 | 22 | 66 | 1 | 48 | 577 | 4.16 | 1 | 2 | 2 | 1 | 5 | 2 | 55 | 31 | 12 | 21 | 22 | 23 | 2 | 4.28 | 0.01 | 0.03 | 0.81 | 0.33 | 0.085 | 0.02 |
| 2300E 2350N | 4 | 0.1 | 27 | 32 | 24 | 76 | 1 | 64 | 701 | 3.96 | 1 | 2 | 2 | 1 | 5 | 1 | 62 | 32 | 12 | 21 | 26 | 27 | 3 | 4.55 | 0.01 | 0.03 | 0.99 | 0.37 | 0.110 | 0.02 |
| 2300E 2325N | 2 | 0.2 | 26 | 63 | 22 | 81 | 1 | 60 | 431 | 4.04 | 1 | 2 | 2 | 1 | 5 | 3 | 36 | 30 | 11 | 23 | 28 | 32 | 2 | 2.06 | 0.01 | 0.03 | 1.01 | 0.37 | 0.103 | 0.03 |
| 2300E 2300N | 4 | 0.1 | 27 | 43 | 21 | 77 | 1 | 54 | 699 | 4.46 | 1 | 2 | 3 | 1 | 5 | 4 | 13 | 37 | 13 | 19 | 22 | 34 | 4 | 0.32 | 0.01 | 0.03 | 0.93 | 0.34 | 0.061 | 0.02 |
| 2300E 2275N | 1 | 0.1 | 30 | 45 | 26 | 83 | 1 | 46 | 499 | 3.8 | 1 | 2 | 2 | 1 | 5 | 2 | 65 | 31 | 12 | 18 | 20 | 22 | 5 | 4.77 | 0.01 | 0.02 | 0.68 | 0.36 | 0.078 | 0.02 |
| 2300E 2225N | 6 | 0.1 | 30 | 33 | 20 | 65 | 1 | 52 | 477 | 3.76 | 1 | 2 | 2 | 1 | 5 | 5 | 41 | 35 | 13 | 19 | 22 | 24 | 2 | 2.53 | 0.01 | 0.03 | 0.83 | 0.38 | 0.080 | 0.03 |
| 2300E 2200N | 4 | 0.1 | 28 | 26 | 31 | 88 | 1 | 57 | 675 | 4.92 | 1 | 3 | 2 | 1 | 5 | 1 | 32 | 32 | 12 | 21 | 22 | 31 | 2 | 1.65 | 0.01 | 0.03 | 0.95 | 0.34 | 0.102 | 0.01 |
| 2300E 2175N | 14 | 0.1 | 33 | 30 | 24 | 76 | 1 | 55 | 411 | 4.09 | 1 | 2 | 2 | 1 | 5 | 3 | 26 | 32 | 12 | 20 | 21 | 28 | 2 | 1.24 | 0.01 | 0.03 | 0.87 | 0.38 | 0.091 | 0.02 |
| 2300E 2125N | 6 | 0.1 | 30 | 32 | 19 | 67 | 1 | 54 | 451 | 3.64 | 1 | 2 | 2 | 1 | 5 | 5 | 19 | 33 | 11 | 21 | 22 | 32 | 2 | 0.64 | 0.01 | 0.03 | 0.93 | 0.37 | 0.087 | 0.03 |

| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| 2400E 2925N | 7 | 0.9 | 30 | 135 | 37 | 190 | 1 | 56 | 472 | 8.63 | 4 | 2 | 2 | 1 | 5 | 6 | 9 | 66 | 34 | 14 | 12 | 20 | 4 | 0.13 | 0.01 | 0.02 | 0.65 | 0.16 | 0.043 | 0.01 |
| 2400E 2875N | 8 | 0.1 | 16 | 42 | 22 | 88 | 1 | 38 | 234 | 4.73 | 2 | 2 | 2 | 1 | 5 | 1 | 6 | 27 | 15 | 14 | 22 | 27 | 2 | 0.10 | 0.01 | 0.02 | 0.71 | 0.18 | 0.045 | 0.02 |
| 2400E 2825N | 3 | 0.3 | 16 | 45 | 20 | 116 | 1 | 53 | 279 | 4.85 | 2 | 2 | 2 | 1 | 5 | 3 | 12 | 41 | 19 | 15 | 14 | 24 | 2 | 0.48 | 0.01 | 0.02 | 0.71 | 0.25 | 0.059 | 0.01 |
| 2400E 2775N | 2 | 0.1 | 15 | 41 | 14 | 104 | 1 | 47 | 279 | 4.53 | 1 | 2 | 2 | 2 | 5 | 3 | 10 | 34 | 15 | 13 | 13 | 21 | 2 | 0.47 | 0.01 | 0.02 | 0.70 | 0.24 | 0.063 | 0.01 |
| 2400E 2725N | 10 | 0.5 | 64 | 58 | 21 | 80 | 1 | 47 | 360 | 4.31 | 5 | 2 | 2 | 1 | 5 | 3 | 16 | 41 | 13 | 13 | 24 | 19 | 3 | 0.68 | 0.01 | 0.03 | 0.70 | 0.21 | 0.096 | 0.01 |
| 2400E 2675N | 2 | 0.3 | 61 | 145 | 18 | 70 | 1 | 69 | 545 | 5.17 | 6 | 2 | 2 | 1 | 5 | 2 | 23 | 56 | 17 | 18 | 29 | 25 | 5 | 0.65 | 0.01 | 0.03 | 0.78 | 0.21 | 0.150 | 0.01 |
| 2400E 2625N | 7 | 0.1 | 37 | 30 | 17 | 65 | 1 | 44 | 507 | 3.45 | 2 | 2 | 2 | 1 | 5 | 1 | 11 | 30 | 11 | 18 | 23 | 26 | 2 | 0.23 | 0.01 | 0.02 | 0.97 | 0.28 | 0.094 | 0.01 |
| 2400E 2575N | 9 | 0.1 | 148 | 44 | 13 | 51 | 1 | 43 | 890 | 5.73 | 1 | 2 | 2 | 1 | 5 | 3 | 10 | 35 | 16 | 17 | 18 | 32 | 2 | 0.22 | 0.01 | 0.02 | 0.71 | 0.25 | 0.053 | 0.02 |
| 2400E 2550N | 2 | 0.1 | 145 | 57 | 35 | 78 | 1 | 64 | 1621 | 8.61 | 2 | 4 | 2 | 1 | 5 | 1 | 10 | 39 | 17 | 20 | 18 | 28 | 2 | 0.31 | 0.01 | 0.02 | 1.02 | 0.22 | 0.099 | 0.01 |
| 2400E 2525N | 6 | 0.1 | 140 | 36 | 49 | 60 | 1 | 48 | 674 | 5.8 | 1 | 2 | 2 | 1 | 5 | 4 | 12 | 36 | 15 | 16 | 19 | 27 | 2 | 0.31 | 0.01 | 0.02 | 0.75 | 0.24 | 0.061 | 0.01 |
| 2400E 2500N | 10 | 0.5 | 592 | 236 | 54 | 151 | 1 | 75 | 3330 | 13.3 | 1 | 2 | 2 | 1 | 7 | 1 | 25 | 42 | 33 | 15 | 14 | 10 | 4 | 1.31 | 0.01 | 0.02 | 0.66 | 0.19 | 0.080 | 0.01 |
| 2400E 2475N | 1 | 0.3 | 86 | 59 | 49 | 72 | 1 | 57 | 648 | 5.44 | 1 | 2 | 2 | 1 | 5 | 3 | 26 | 38 | 14 | 22 | 26 | 32 | 2 | 1.18 | 0.01 | 0.03 | 0.92 | 0.35 | 0.105 | 0.02 |
| 2400E 2450N | 1 | 0.3 | 36 | 33 | 105 | 83 | 1 | 121 | 2089 | 6.75 | 1 | 2 | 2 | 1 | 5 | 1 | 56 | 45 | 18 | 28 | 27 | 54 | 6 | 3.51 | 0.01 | 0.04 | 1.14 | 0.42 | 0.111 | 0.01 |
| 2400E 2425N | 1 | 0.2 | 38 | 34 | 93 | 67 | 1 | 47 | 650 | 4.29 | 1 | 2 | 2 | 1 | 5 | 1 | 22 | 36 | 14 | 16 | 20 | 30 | 2 | 0.99 | 0.01 | 0.03 | 0.69 | 0.25 | 0.100 | 0.01 |
| 2400E 2400N | 3 | 0.3 | 35 | 31 | 23 | 83 | 1 | 57 | 721 | 4.07 | 1 | 3 | 2 | 1 | 5 | 1 | 49 | 33 | 13 | 17 | 19 | 22 | 5 | 3.47 | 0.01 | 0.03 | 0.69 | 0.29 | 0.091 | 0.01 |
| 2400E 2375N | 8 | 0.3 | 131 | 137 | 22 | 71 | 1 | 46 | 918 | 5.44 | 1 | 2 | 2 | 1 | 5 | 3 | 90 | 58 | 25 | 15 | 13 | 16 | 3 | 8.38 | 0.01 | 0.02 | 0.45 | 0.29 | 0.068 | 0.02 |
| 2400E 2325N | 10 | 0.3 | 26 | 28 | 19 | 65 | 1 | 50 | 538 | 3.88 | 1 | 2 | 2 | 1 | 5 | 1 | 75 | 29 | 11 | 19 | 20 | 25 | 2 | 6.04 | 0.01 | 0.03 | 0.85 | 0.37 | 0.093 | 0.01 |
| 2400E 2275N | 3 | 0.1 | 19 | 25 | 25 | 64 | 1 | 55 | 482 | 3.51 | 1 | 2 | 2 | 1 | 5 | 1 | 30 | 28 | 10 | 19 | 22 | 22 | 2 | 1.76 | 0.01 | 0.03 | 0.92 | 0.29 | 0.086 | 0.02 |
| 2400E 2225N | 4 | 0.1 | 53 | 30 | 12 | 73 | 1 | 57 | 423 | 3.59 | 1 | 2 | 2 | 1 | 9 | 9 | 17 | 39 | 13 | 21 | 23 | 38 | 5 | 0.47 | 0.01 | 0.03 | 0.92 | 0.35 | 0.079 | 0.03 |
| 2400E 2175N | 1 | 0.1 | 32 | 15 | 16 | 88 | 1 | 51 | 139 | 3.52 | 1 | 2 | 2 | 1 | 5 | 2 | 15 | 23 | 6 | 21 | 21 | 38 | 2 | 0.55 | 0.01 | 0.03 | 1.31 | 0.29 | 0.085 | 0.02 |
| 2400E 2125N | 2 | 0.2 | 25 | 27 | 30 | 78 | 1 | 76 | 1222 | 4.85 | 1 | 2 | 2 | 1 | 5 | 3 | 42 | 38 | 13 | 23 | 21 | 66 | 2 | 2.52 | 0.01 | 0.03 | 1.46 | 0.38 | 0.110 | 0.02 |
| LAKE ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2900E 4000N | 1 | 0.3 | 26 | 19 | 68 | 42 | 1 | 57 | 977 | 5.58 | 1 | 2 | 2 | 1 | 5 | 1 | 26 | 19 | 10 | 12 | 17 | 28 | 2 | 0.61 | 0.01 | 0.02 | 0.99 | 0.15 | 0.078 | 0.02 |
| 2900E 3975N | 1 | 1.2 | 43 | 32 | 321 | 47 | 1 | 47 | 246 | 3.71 | 1 | 2 | 2 | 1 | 5 | 3 | 21 | 24 | 10 | 12 | 14 | 29 | 2 | 0.60 | 0.01 | 0.02 | 1.06 | 0.26 | 0.071 | 0.01 |
| 2900E 3950N | 1 | 0.5 | 23 | 16 | 88 | 35 | 1 | 69 | 999 | 2.01 | 1 | 2 | 2 | 1 | 5 | 1 | 36 | 11 | 6 | 6 | 11 | 13 | 2 | 1.17 | 0.02 | 0.02 | 0.84 | 0.12 | 0.058 | 0.01 |
| 2900E 3925N | 5 | 0.4 | 41 | 17 | 112 | 63 | 1 | 34 | 412 | 2.42 | 1 | 2 | 2 | 1 | 5 | 1 | 31 | 14 | 10 | 5 | 11 | 15 | 2 | 1.18 | 0.02 | 0.02 | 0.58 | 0.09 | 0.046 | 0.01 |
| 2900E 3900N | 1 | 5.4 | 147 | 67 | 1423 | 78 | 1 | 35 | 724 | 5.59 | 1 | 12 | 2 | 1 | 5 | 3 | 18 | 28 | 14 | 17 | 12 | 23 | 2 | 3.90 | 0.01 | 0.03 | 0.92 | 2.33 | 0.072 | 0.01 |
| 2900E 3875N | 8 | 8.6 | 267 | 99 | 2885 | 57 | 1 | 20 | 815 | 4.91 | 1 | 19 | 2 | 1 | 5 | 3 | 29 | 24 | 15 | 9 | 9 | 14 | 2 | 8.92 | 0.01 | 0.02 | 0.61 | 4.87 | 0.047 | 0.01 |
| 2900E 3850N | 1 | 0.1 | 44 | 67 | 56 | 80 | 1 | 48 | 533 | 5.81 | 3 | 2 | 2 | 1 | 5 | 6 | 9 | 45 | 16 | 22 | 16 | 39 | 2 | 0.16 | 0.01 | 0.03 | 1.36 | 0.43 | 0.063 | 0.01 |
| 2900E 3825N | 1 | 0.2 | 67 | 102 | 60 | 69 | 1 | 54 | 422 | 4.94 | 2 | 2 | 2 | 1 | 5 | 8 | 10 | 42 | 14 | 20 | 16 | 49 | 2 | 0.19 | 0.01 | 0.04 | 1.21 | 0.40 | 0.064 | 0.01 |
| 2900E 3800N | 10 | 2.5 | 132 | 78 | 1275 | 120 | 1 | 55 | 1162 | 6.63 | 1 | 5 | 2 | 1 | 5 | 14 | 12 | 59 | 26 | 24 | 14 | 55 | 2 | 0.27 | 0.01 | 0.07 | 1.44 | 0.55 | 0.082 | 0.01 |
| 2900E 3775N | 5 | 0.4 | 51 | 58 | 68 | 72 | 1 | 53 | 390 | 4.36 | 2 | 2 | 2 | 1 | 5 | 8 | 22 | 41 | 15 | 18 | 15 | 40 | 2 | 0.76 | 0.01 | 0.04 | 1.10 | 0.39 | 0.073 | 0.01 |
| 2900E 3750N | 7 | 0.7 | 263 | 45 | 247 | 52 | 1 | 56 | 176 | 4.1 | 3 | 2 | 2 | 1 | 5 | 3 | 15 | 29 | 11 | 13 | 19 | 30 | 2 | 0.42 | 0.01 | 0.03 | 0.86 | 0.20 | 0.048 | 0.01 |
| 2900E 3725N | 9 | 0.6 | 78 | 56 | 150 | 70 | 1 | 49 | 656 | 5.08 | 1 | 3 | 2 | 1 | 5 | 8 | 50 | 50 | 20 | 25 | 17 | 39 | 2 | 2.65 | 0.01 | 0.05 | 1.02 | 0.45 | 0.078 | 0.01 |
| 2900E 3700N | 1 | 0.1 | 19 | 22 | 14 | 54 | 1 | 47 | 253 | 2.19 | 1 | 2 | 2 | 1 | 5 | 1 | 19 | 16 | 7 | 8 | 12 | 12 | 2 | 0.63 | 0.02 | 0.03 | 0.99 | 0.15 | 0.078 | 0.01 |
| 2900E 3675N | 3 | 0.2 | 62 | 48 | 24 | 77 | 1 | 50 | 433 | 4.81 | 3 | 2 | 2 | 1 | 5 | 4 | 29 | 49 | 21 | 21 | 20 | 32 | 2 | 1.25 | 0.01 | 0.03 | 0.96 | 0.38 | 0.067 | 0.01 |
| 2900E 3650N | 1 | 0.3 | 59 | 59 | 30 | 82 | 1 | 48 | 694 | 5.12 | 3 | 2 | 2 | 1 | 5 | 6 | 21 | 48 | 19 | 17 | 17 | 33 | 2 | 0.82 | 0.01 | 0.04 | 0.87 | 0.36 | 0.080 | 0.01 |
| 2900E 3625N | 1 | 0.2 | 38 | 50 | 23 | 57 | 1 | 61 | 361 | 3.75 | 2 | 2 | 2 | 1 | 5 | 3 | 19 | 34 | 13 | 13 | 17 | 22 | 2 | 0.71 | 0.02 | 0.04 | 0.99 | 0.27 | 0.062 | 0.01 |
| 2900E 3600N | 3 | 0.2 | 33 | 46 | 24 | 70 | 1 | 59 | 292 | 3.95 | 3 | 2 | 2 | 2 | 5 | 3 | 22 | 37 | 14 | 14 | 19 | 23 | 2 | 0.56 | 0.01 | 0.04 | 0.98 | 0.26 | 0.070 | 0.01 |
| 3000E 4000N | 1 | 0.1 | 2 | 5 | 6 | 10 | 1 | 31 | 52 | 0.43 | 1 | 2 | 5 | 1 | 5 | 1 | 18 | 2 | 1 | 2 | 9 | 3 | 4 | 0.26 | 0.04 | 0.02 | 0.61 | 0.04 | 0.036 | 0.02 |
| 3000E 3975N | 1 | 0.2 | 13 | 13 | 40 | 32 | 1 | 20 | 161 | 1.36 | 1 | 2 | 5 | 2 | 5 | 1 | 17 | 6 | 4 | 5 | 7 | 11 | 2 | 0.47 | 0.04 | 0.03 | 0.94 | 0.10 | 0.051 | 0.02 |
| 3000E 3925N | 1 | 0.5 | 28 | 28 | 157 | 57 | 1 | 44 | 348 | 2.9 | 1 | 2 | 2 | 1 | 5 | 1 | 34 | 19 | 9 | 8 | 11 | 20 | 2 | 1.09 | 0.02 | 0.02 | 0.73 | 0.21 | 0.077 | 0.01 |
| 3000E 3875N | 1 | 0.6 | 45 | 39 | 182 | 47 | 1 | 34 | 243 | 3.14 | 1 | 2 | 2 | 1 | 5 | 3 | 17 | 24 | 10 | 13 | 11 | 24 | 2 | 1.02 | 0.02 | 0.03 | 0.93 | 0.54 | 0.064 | 0.01 |
| 3000E 3825N | 7 | 4.8 | 290 | 82 | 1421 | 75 | 1 | 53 | 1139 | 7.35 | 2 | 10 | 2 | 1 | 5 | 3 | 19 | 33 | 17 | 22 | 14 | 24 | 3 | 2.59 | 0.01 | 0.03 | 1.02 | 1.42 | 0.073 | 0.01 |
| 3000E 3775N | 8 | 3.4 | 167 | 54 | 1102 | 71 | 1 | 44 | 860 | 5.59 | 1 | 9 | 2 | 1 | 5 | 4 | 30 | 34 | 16 | 19 | 12 | 22 | 5 | 4.73 | 0.01 | 0.04 | 0.85 | 2.41 | 0.064 | 0.01 |
| 3000E 3725N | 1 | 0.2 | 49 | 52 | 28 | 70 | 1 | 59 | 475 | 4.36 | 2 | 2 | 2 | 1 | 5 | 6 | 10 | 38 | 14 | 19 | 20 | 40 | 2 | 0.19 | 0.01 | 0.04 | 1.21 | 0.37 | 0.061 | 0.01 |
| 3000E 3675N | 1 | 0.3 | 40 | 58 | 37 | 57 | 1 | 28 | 649 | 4.8 | 7 | 3 | 2 | 1 | 5 | 9 | 81 | 52 | 18 | 17 | 13 | 24 | 2 | 7.42 | 0.01 | 0.06 | 0.67 | 0.53 | 0.140 | 0.01 |
| 3000E 3625N | 2 | 0.1 | 37 | 41 | 29 | 81 | 1 | 72 | 871 | 6.71 | 3 | 2 | 3 | 1 | 5 | 2 | 14 | 52 | 19 | 24 | 18 | 46 | 2 | 0.30 | 0.01 | 0.03 | 1.68 | 0.29 | 0.098 | 0.01 |
| 3000E 3575N | 4 | 0.2 | 29 | 91 | 16 | 94 | 1 | 51 | 618 | 5.21 | 5 | 2 | 2 | 1 | 5 | 12 | 16 | 59 | 23 | 20 | 20 | 39 | 2 | 0.41 | 0.01 | 0.04 | 0.93 | 0.36 | 0.064 | 0.01 |
| 3000E 3525N | 6 | 0.3 | 43 | 203 | 13 | 70 | 1 | 48 | 977 | 6.18 | 3 | 2 | 2 | 1 | 5 | 4 | 21 | 56 | 26 | 12 | 13 | 24 | 2 | 1.18 | 0.01 | 0.03 | 0.62 | 0.43 | 0.077 | 0.01 |

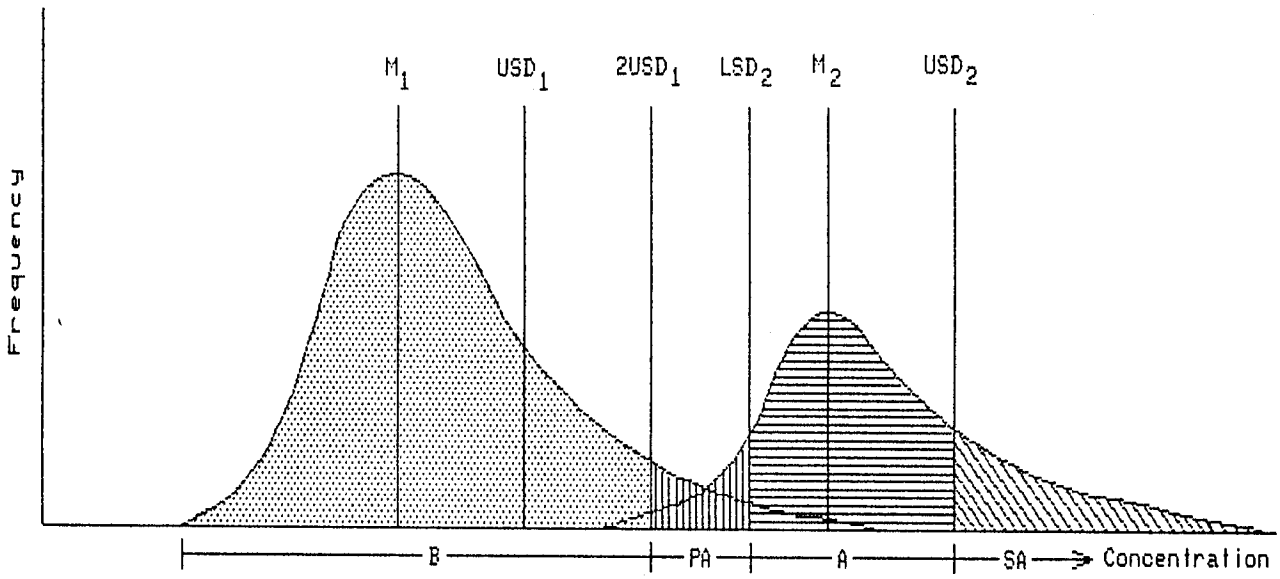
| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| 3100E 4000N | 1 | 0.1 | 14 | 18 | 16 | 60 | 1 | 64 | 213 | 2.73 | 1 | 2 | 2 | 1 | 5 | 1 | 10 | 16 | 6 | 12 | 14 | 24 | 2 | 0.18 | 0.01 | 0.03 | 1.17 | 0.27 | 0.054 | 0.01 |
| 3100E 3975N | 4 | 0.1 | 38 | 59 | 45 | 82 | 1 | 43 | 741 | 5.38 | 1 | 2 | 2 | 1 | 5 | 12 | 10 | 44 | 20 | 22 | 12 | 53 | 2 | 0.17 | 0.01 | 0.05 | 1.46 | 0.55 | 0.062 | 0.01 |
| 3100E 3925N | 6 | 0.6 | 42 | 71 | 144 | 88 | 1 | 40 | 935 | 6.47 | 2 | 4 | 2 | 1 | 5 | 14 | 20 | 62 | 24 | 28 | 14 | 42 | 2 | 1.36 | 0.01 | 0.05 | 1.36 | 1.05 | 0.075 | 0.01 |
| 3100E 3875N | 5 | 0.5 | 39 | 36 | 140 | 69 | 1 | 32 | 595 | 5.31 | 1 | 3 | 2 | 1 | 5 | 5 | 10 | 34 | 14 | 20 | 12 | 32 | 4 | 0.25 | 0.01 | 0.02 | 1.27 | 0.45 | 0.052 | 0.01 |
| 3100E 3825N | 8 | 2.2 | 96 | 33 | 589 | 43 | 1 | 18 | 1995 | 7.42 | 1 | 9 | 2 | 1 | 5 | 4 | 75 | 29 | 18 | 15 | 5 | 18 | 6 | 9.03 | 0.01 | 0.03 | 0.35 | 0.70 | 0.050 | 0.01 |
| 3100E 3775N | 15 | 5.4 | 189 | 80 | 1337 | 59 | 1 | 32 | 841 | 6.6 | 2 | 4 | 2 | 1 | 5 | 8 | 17 | 50 | 21 | 18 | 10 | 38 | 2 | 1.04 | 0.01 | 0.03 | 0.93 | 0.56 | 0.069 | 0.01 |
| 3100E 3725N | 2 | 0.4 | 45 | 45 | 159 | 74 | 1 | 28 | 567 | 5.81 | 2 | 2 | 2 | 1 | 5 | 4 | 7 | 44 | 18 | 24 | 14 | 37 | 2 | 0.29 | 0.01 | 0.02 | 1.32 | 0.56 | 0.050 | 0.01 |
| 3100E 3675N | 1 | 0.1 | 26 | 32 | 31 | 67 | 1 | 47 | 332 | 4.22 | 3 | 2 | 2 | 1 | 5 | 1 | 10 | 30 | 10 | 22 | 19 | 35 | 4 | 0.27 | 0.01 | 0.03 | 1.30 | 0.41 | 0.091 | 0.01 |
| 3100E 3625N | 2 | 0.1 | 13 | 30 | 17 | 66 | 1 | 60 | 274 | 3.75 | 2 | 2 | 2 | 1 | 5 | 1 | 9 | 28 | 9 | 17 | 15 | 23 | 2 | 0.17 | 0.01 | 0.04 | 1.23 | 0.29 | 0.084 | 0.01 |
| 3100E 3575N | 4 | 0.1 | 23 | 78 | 31 | 98 | 1 | 34 | 1081 | 6.73 | 2 | 2 | 2 | 1 | 5 | 14 | 18 | 73 | 29 | 26 | 15 | 51 | 3 | 0.33 | 0.01 | 0.04 | 1.22 | 0.49 | 0.079 | 0.01 |
| 3100E 3525N | 4 | 0.1 | 21 | 38 | 22 | 85 | 1 | 37 | 477 | 3.93 | 3 | 2 | 2 | 1 | 5 | 5 | 10 | 40 | 13 | 21 | 22 | 38 | 3 | 0.17 | 0.01 | 0.03 | 0.94 | 0.36 | 0.038 | 0.02 |
| 3450E 5100N | 15 | 0.1 | 2 | 5 | 2 | 9 | 1 | 15 | 24 | 0.41 | 1 | 2 | 2 | 1 | 5 | 1 | 8 | 2 | 1 | 2 | 8 | 3 | 2 | 0.10 | 0.03 | 0.02 | 0.48 | 0.05 | 0.031 | 0.02 |
| 3450E 5075N | 7 | 0.2 | 14 | 31 | 25 | 81 | 1 | 47 | 218 | 4.08 | 2 | 2 | 2 | 1 | 5 | 4 | 14 | 28 | 13 | 19 | 11 | 27 | 2 | 0.30 | 0.01 | 0.03 | 1.61 | 0.53 | 0.061 | 0.01 |
| 3450E 5050N | 17 | 0.1 | 2 | 5 | 2 | 10 | 1 | 14 | 34 | 0.55 | 1 | 2 | 2 | 1 | 5 | 1 | 9 | 2 | 2 | 2 | 13 | 3 | 2 | 0.13 | 0.02 | 0.02 | 0.47 | 0.05 | 0.043 | 0.03 |
| 3450E 5025N | 35 | 0.1 | 13 | 21 | 16 | 57 | 1 | 33 | 185 | 3.79 | 1 | 2 | 2 | 1 | 5 | 2 | 11 | 25 | 12 | 14 | 12 | 29 | 3 | 0.24 | 0.01 | 0.02 | 1.16 | 0.32 | 0.039 | 0.01 |
| 3450E 5000N | 14 | 0.1 | 11 | 8 | 2 | 13 | 1 | 15 | 56 | 1.37 | 1 | 2 | 2 | 1 | 5 | 1 | 4 | 6 | 5 | 2 | 9 | 14 | 2 | 0.02 | 0.01 | 0.01 | 0.40 | 0.05 | 0.015 | 0.01 |
| 3450E 4975N | 43 | 0.1 | 3 | 10 | 8 | 26 | 1 | 32 | 252 | 0.77 | 1 | 2 | 2 | 1 | 5 | 1 | 22 | 6 | 2 | 3 | 6 | 8 | 3 | 0.63 | 0.02 | 0.02 | 0.99 | 0.13 | 0.047 | 0.01 |
| 3450E 4950N | 3 | 0.1 | 15 | 18 | 11 | 30 | 1 | 48 | 242 | 3.27 | 1 | 2 | 2 | 1 | 5 | 7 | 12 | 20 | 8 | 9 | 7 | 40 | 2 | 0.25 | 0.01 | 0.03 | 0.82 | 0.22 | 0.031 | 0.01 |
| 3450E 4925N | 1 | 0.1 | 6 | 8 | 5 | 16 | 1 | 28 | 347 | 2.43 | 1 | 2 | 2 | 2 | 6 | 1 | 6 | 12 | 5 | 4 | 7 | 19 | 2 | 0.09 | 0.01 | 0.02 | 0.53 | 0.09 | 0.031 | 0.01 |
| 3450E 4900N | 9 | 0.1 | 22 | 19 | 13 | 24 | 1 | 34 | 271 | 3.84 | 1 | 2 | 2 | 1 | 5 | 4 | 3 | 22 | 11 | 9 | 9 | 42 | 2 | 0.03 | 0.01 | 0.03 | 0.85 | 0.18 | 0.033 | 0.01 |
| 3450E 4875N | 2 | 0.1 | 13 | 3 | 11 | 11 | 1 | 19 | 91 | 2.14 | 1 | 2 | 2 | 1 | 5 | 6 | 2 | 7 | 3 | 6 | 11 | 45 | 2 | 0.01 | 0.01 | 0.02 | 0.58 | 0.10 | 0.015 | 0.01 |
| 3450E 4850N | 9 | 0.9 | 84 | 70 | 48 | 48 | 1 | 64 | 1707 | 10.72 | 2 | 2 | 2 | 1 | 5 | 12 | 10 | 72 | 35 | 18 | 7 | 42 | 3 | 0.25 | 0.01 | 0.03 | 0.92 | 0.22 | 0.068 | 0.01 |
| 3450E 4825N | 10 | 0.1 | 51 | 51 | 16 | 52 | 1 | 38 | 330 | 6.35 | 1 | 2 | 2 | 1 | 5 | 10 | 5 | 57 | 25 | 16 | 8 | 39 | 3 | 0.10 | 0.01 | 0.04 | 1.15 | 0.33 | 0.045 | 0.01 |
| 3450E 4800N | 1 | 0.1 | 25 | 27 | 7 | 55 | 1 | 56 | 486 | 5.65 | 1 | 2 | 2 | 1 | 5 | 6 | 6 | 36 | 14 | 7 | 5 | 26 | 2 | 0.12 | 0.01 | 0.02 | 0.47 | 0.08 | 0.065 | 0.01 |
| 3450E 4775N | 32 | 0.1 | 2 | 4 | 7 | 18 | 1 | 19 | 87 | 0.52 | 1 | 2 | 2 | 1 | 5 | 1 | 16 | 3 | 2 | 2 | 9 | 3 | 2 | 0.39 | 0.03 | 0.02 | 0.48 | 0.05 | 0.042 | 0.02 |
| 3450E 4750N | 35 | 0.2 | 16 | 26 | 45 | 44 | 1 | 24 | 223 | 2 | 1 | 2 | 3 | 3 | 5 | 1 | 35 | 22 | 6 | 24 | 12 | 9 | 5 | 1.12 | 0.02 | 0.02 | 0.89 | 0.24 | 0.112 | 0.01 |
| 3450E 4725N | 11 | 0.1 | 4 | 11 | 6 | 19 | 1 | 14 | 77 | 0.92 | 1 | 2 | 2 | 2 | 5 | 1 | 14 | 3 | 3 | 4 | 24 | 3 | 2 | 0.24 | 0.03 | 0.02 | 0.38 | 0.06 | 0.056 | 0.04 |
| 3450E 4700N | 61 | 2.3 | 148 | 111 | 130 | 83 | 1 | 22 | 1752 | 6.45 | 1 | 20 | 2 | 1 | 5 | 1 | 59 | 34 | 24 | 7 | 7 | 5 | 3 | 12.23 | 0.01 | 0.03 | 0.27 | 5.41 | 0.052 | 0.01 |
| 3450E 4675N | 22 | 1.0 | 120 | 42 | 149 | 59 | 1 | 30 | 1818 | 6.56 | 1 | 10 | 2 | 1 | 5 | 1 | 49 | 27 | 20 | 9 | 12 | 5 | 3 | 11.85 | 0.01 | 0.03 | 0.39 | 5.78 | 0.044 | 0.01 |
| 3450E 4650N | 46 | 1.4 | 127 | 493 | 113 | 52 | 1 | 34 | 921 | 3.87 | 1 | 34 | 2 | 1 | 5 | 1 | 34 | 21 | 15 | 10 | 9 | 5 | 2 | 6.37 | 0.02 | 0.04 | 0.56 | 2.87 | 0.034 | 0.01 |
| 3450E 4625N | 13 | 0.4 | 35 | 18 | 96 | 49 | 1 | 17 | 414 | 1.21 | 1 | 2 | 2 | 1 | 5 | 1 | 17 | 5 | 3 | 5 | 7 | 2 | 6 | 0.98 | 0.03 | 0.03 | 0.40 | 0.28 | 0.015 | 0.01 |
| 3450E 4600N | 1 | 0.3 | 101 | 65 | 84 | 96 | 1 | 51 | 859 | 6.39 | 2 | 2 | 2 | 1 | 5 | 5 | 25 | 48 | 22 | 17 | 14 | 33 | 2 | 0.73 | 0.01 | 0.04 | 1.02 | 0.47 | 0.078 | 0.01 |
| 3450E 4575N | 1 | 0.1 | 11 | 11 | 11 | 24 | 1 | 24 | 121 | 1.14 | 1 | 2 | 2 | 1 | 5 | 1 | 18 | 6 | 4 | 4 | 11 | 7 | 2 | 0.47 | 0.03 | 0.02 | 0.64 | 0.09 | 0.042 | 0.02 |
| 3450E 4550N | 1 | 0.1 | 28 | 21 | 33 | 27 | 1 | 30 | 265 | 1.77 | 1 | 2 | 2 | 2 | 5 | 1 | 22 | 11 | 6 | 4 | 8 | 11 | 3 | 0.71 | 0.03 | 0.03 | 0.52 | 0.13 | 0.049 | 0.01 |
| 3450E 4525N | 1 | 0.1 | 60 | 35 | 46 | 88 | 1 | 126 | 1541 | 7.86 | 3 | 2 | 2 | 1 | 5 | 6 | 23 | 35 | 18 | 14 | 12 | 49 | 2 | 0.48 | 0.01 | 0.19 | 1.45 | 0.46 | 0.068 | 0.05 |
| 3450E 4500N | 1 | 0.2 | 106 | 26 | 86 | 101 | 1 | 69 | 1151 | 7.2 | 1 | 4 | 2 | 1 | 5 | 2 | 40 | 26 | 18 | 12 | 11 | 25 | 2 | 0.96 | 0.01 | 0.03 | 1.00 | 0.16 | 0.077 | 0.01 |
| 3450E 4475N | 2 | 0.1 | 119 | 51 | 122 | 102 | 1 | 34 | 819 | 7.44 | 1 | 2 | 2 | 1 | 5 | 5 | 6 | 49 | 24 | 23 | 13 | 29 | 4 | 0.07 | 0.01 | 0.02 | 1.38 | 0.52 | 0.054 | 0.01 |
| 3450E 4450N | 3 | 0.1 | 127 | 69 | 101 | 105 | 1 | 42 | 1075 | 11.77 | 1 | 4 | 2 | 1 | 5 | 8 | 12 | 67 | 38 | 28 | 10 | 41 | 2 | 0.22 | 0.01 | 0.02 | 1.59 | 0.51 | 0.083 | 0.01 |
| 3450E 4425N | 4 | 0.3 | 142 | 76 | 209 | 136 | 1 | 43 | 2171 | 10.41 | 1 | 2 | 2 | 1 | 5 | 8 | 18 | 75 | 38 | 26 | 11 | 56 | 2 | 0.38 | 0.01 | 0.03 | 1.43 | 0.48 | 0.076 | 0.01 |
| 3450E 4400N | 1 | 0.1 | 19 | 12 | 24 | 58 | 1 | 31 | 251 | 4.16 | 1 | 2 | 2 | 1 | 5 | 5 | 4 | 16 | 7 | 23 | 15 | 36 | 3 | 0.04 | 0.01 | 0.02 | 1.67 | 0.62 | 0.034 | 0.01 |
| NORTH ZONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| L1-0E | 1 | 0.5 | 8 | 20 | 71 | 64 | 1 | 292 | 387 | 3.14 | 2 | 2 | 2 | 1 | 5 | 1 | 20 | 13 | 9 | 12 | 24 | 29 | 3 | 0.30 | 0.01 | 0.07 | 0.98 | 0.20 | 0.112 | 0.01 |
| L1-25E | 1 | 0.2 | 16 | 47 | 30 | 46 | 1 | 387 | 899 | 4.75 | 5 | 2 | 2 | 1 | 5 | 4 | 49 | 32 | 21 | 17 | 25 | 40 | 4 | 0.98 | 0.01 | 0.13 | 0.75 | 0.33 | 0.119 | 0.01 |
| L1-50E | 2 | 1.1 | 21 | 39 | 154 | 112 | 1 | 424 | 582 | 5.23 | 5 | 2 | 2 | 1 | 5 | 2 | 43 | 26 | 15 | 18 | 25 | 39 | 2 | 0.58 | 0.01 | 0.12 | 0.86 | 0.30 | 0.126 | 0.01 |
| L1-75E | 1 | 4.5 | 157 | 35 | 576 | 918 | 6 | 250 | 518 | 4.83 | 3 | 16 | 3 | 1 | 5 | 1 | 54 | 15 | 8 | 9 | 18 | 20 | 6 | 0.68 | 0.01 | 0.14 | 0.72 | 0.11 | 0.137 | 0.01 |
| L1-100E | 1 | 4.6 | 338 | 55 | 598 | 1265 | 5 | 245 | 632 | 8.79 | 4 | 29 | 2 | 1 | 6 | 2 | 73 | 27 | 15 | 18 | 28 | 25 | 4 | 0.27 | 0.01 | 0.28 | 0.56 | 0.16 | 0.134 | 0.01 |
| L1-150E | 2 | 4.7 | 162 | 52 | 683 | 623 | 2 | 287 | 469 | 7.95 | 5 | 33 | 2 | 1 | 7 | 1 | 64 | 13 | 9 | 14 | 28 | 33 | 7 | 0.18 | 0.01 | 0.26 | 0.47 | 0.10 | 0.166 | 0.01 |
| L1-175E | 1 | 4.7 | 108 | 24 | 1040 | 548 | 2 | 309 | 427 | 5.47 | 5 | 31 | 2 | 1 | 5 | 1 | 61 | 12 | 8 | 12 | 25 | 33 | 4 | 0.15 | 0.01 | 0.22 | 0.48 | 0.13 | 0.133 | 0.01 |
| L1-200E | 46 | 13.6 | 432 | 56 | 790 | 2225 | 24 | 412 | 326 | 6.48 | 15 | 82 | 2 | 2 | 8 | 4 | 29 | 15 | 9 | 6 | 34 | 20 | 11 | 0.12 | 0.01 | 0.12 | 0.26 | 0.02 | 0.036 | 0.01 |
| L1-225E | 240 | 9.9 | 339 | 72 | 846 | 872 | 8 | 101 | 276 | 6.1 | 18 | 40 | 2 | 1 | 6 | 5 | 40 | 11 | 8 | 8 | 34 | 17 | 3 | 0.12 | 0.01 | 0.29 | 0.33 | 0.06 | 0.055 | 0.01 |
| L1-275E | 21 | 10.1 | 323 | 118 | 1248 | 3287 | 30 | 319 | 781 | 5.98 | 11 | 35 | 2 | 1 | 5 | 5 | 38 | 34 | 21 | 11 | 46 | 31 | 5 | 0.41 | 0.01 | 0.19 | 0.68 | 0.06 | 0.086 | 0.01 |
| L1-300E | 2 | 2.5 | 21 | 37 | 175 | 160 | 1 | 500 | 672 | 4.1 | 3 | 7 | 2 | 1 | 5 | 1 | 35 | 14 | 13 | 6 | 13 | 40 | 3 | 0.56 | 0.01 | 0.11 | 0.76 | 0.11 | 0.119 | 0.01 |

| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| L1-325E | 2 | 2.4 | 21 | 15 | 326 | 156 | 1 | 344 | 287 | 1.88 | 5 | 9 | 2 | 1 | 5 | 1 | 40 | 10 | 6 | 5 | 18 | 24 | 2 | 0.17 | 0.01 | 0.06 | 0.64 | 0.03 | 0.078 | 0.01 |
| L1-350E | 5 | 3.9 | 42 | 25 | 554 | 280 | 2 | 341 | 293 | 2.58 | 7 | 14 | 2 | 1 | 5 | 1 | 66 | 17 | 8 | 16 | 28 | 34 | 2 | 0.09 | 0.01 | 0.1 | 0.59 | 0.09 | 0.070 | 0.01 |
| L1-375E | 3 | 1.0 | 17 | 23 | 114 | 93 | 1 | 430 | 277 | 2.35 | 5 | 9 | 2 | 1 | 5 | 1 | 70 | 17 | 8 | 7 | 18 | 41 | 4 | 0.17 | 0.01 | 0.08 | 0.55 | 0.06 | 0.068 | 0.01 |
| L1-400E | 3 | 0.9 | 29 | 43 | 92 | 306 | 1 | 371 | 643 | 4.2 | 6 | 11 | 2 | 1 | 5 | 2 | 58 | 22 | 19 | 6 | 19 | 45 | 3 | 0.26 | 0.01 | 0.11 | 0.40 | 0.05 | 0.077 | 0.01 |
| L1-425E | 8 | 1.5 | 35 | 40 | 143 | 229 | 1 | 299 | 389 | 3.6 | 9 | 13 | 2 | 1 | 5 | 3 | 48 | 20 | 14 | 5 | 19 | 45 | 3 | 0.13 | 0.01 | 0.15 | 0.28 | 0.03 | 0.066 | 0.01 |
| L1-450E | 2 | 1.1 | 23 | 16 | 138 | 135 | 1 | 321 | 184 | 2.48 | 8 | 9 | 3 | 1 | 5 | 2 | 63 | 10 | 6 | 5 | 17 | 46 | 2 | 0.13 | 0.01 | 0.13 | 0.33 | 0.04 | 0.056 | 0.01 |
| L1-475E | 5 | 1.2 | 51 | 44 | 106 | 338 | 1 | 292 | 220 | 5.78 | 7 | 9 | 2 | 1 | 5 | 1 | 45 | 15 | 9 | 7 | 22 | 30 | 4 | 0.39 | 0.01 | 0.08 | 0.57 | 0.07 | 0.086 | 0.01 |
| L1-500E | 4 | 0.5 | 32 | 36 | 117 | 727 | 4 | 116 | 289 | 5.54 | 12 | 8 | 4 | 1 | 5 | 14 | 12 | 11 | 7 | 3 | 9 | 34 | 8 | 0.13 | 0.01 | 0.09 | 0.38 | 0.05 | 0.037 | 0.01 |
| L1-525E | 5 | 0.8 | 41 | 68 | 74 | 579 | 2 | 300 | 476 | 7.44 | 4 | 8 | 2 | 1 | 5 | 1 | 26 | 28 | 21 | 11 | 24 | 37 | 4 | 0.41 | 0.01 | 0.09 | 0.56 | 0.10 | 0.070 | 0.01 |
| L1-550E | 4 | 0.9 | 58 | 61 | 84 | 1230 | 6 | 217 | 539 | 6.77 | 7 | 9 | 2 | 1 | 5 | 3 | 19 | 20 | 14 | 7 | 22 | 55 | 2 | 0.20 | 0.01 | 0.1 | 0.59 | 0.07 | 0.061 | 0.01 |
| L1-575E | 1 | 1.6 | 100 | 188 | 142 | 4032 | 32 | 127 | 2445 | 13.58 | 7 | 11 | 2 | 1 | 5 | 1 | 34 | 140 | 85 | 22 | 42 | 30 | 3 | 0.48 | 0.01 | 0.09 | 0.78 | 0.13 | 0.133 | 0.01 |
| L1-600E | 1 | 1.9 | 75 | 91 | 106 | 2306 | 13 | 297 | 570 | 6.47 | 3 | 11 | 2 | 1 | 5 | 1 | 76 | 27 | 18 | 17 | 38 | 38 | 3 | 0.43 | 0.01 | 0.14 | 0.85 | 0.12 | 0.124 | 0.01 |
| L2-0S | 1 | 8.8 | 211 | 64 | 691 | 1236 | 8 | 147 | 416 | 7.53 | 5 | 62 | 3 | 1 | 5 | 9 | 122 | 31 | 19 | 58 | 81 | 19 | 6 | 0.27 | 0.04 | 0.43 | 1.05 | 0.72 | 0.096 | 0.12 |
| L2-25S | 1 | 7.2 | 29 | 41 | 538 | 190 | 1 | 447 | 715 | 4.65 | 4 | 13 | 2 | 1 | 5 | 3 | 46 | 43 | 21 | 53 | 54 | 47 | 7 | 0.47 | 0.02 | 0.13 | 1.38 | 0.97 | 0.092 | 0.04 |
| L2-50S | 1 | 2.9 | 9 | 21 | 186 | 99 | 1 | 475 | 540 | 2.93 | 3 | 4 | 2 | 1 | 5 | 1 | 34 | 17 | 12 | 20 | 30 | 23 | 4 | 0.47 | 0.01 | 0.07 | 0.96 | 0.23 | 0.110 | 0.01 |
| L2-75S | 2 | 9.6 | 26 | 19 | 742 | 101 | 1 | 514 | 125 | 2.11 | 4 | 15 | 2 | 1 | 5 | 1 | 51 | 11 | 5 | 8 | 19 | 35 | 6 | 0.14 | 0.01 | 0.07 | 0.44 | 0.05 | 0.059 | 0.01 |
| L2-100S | 3 | 12.5 | 38 | 30 | 822 | 167 | 1 | 565 | 209 | 2.59 | 5 | 18 | 3 | 1 | 5 | 1 | 66 | 17 | 7 | 8 | 22 | 38 | 3 | 0.16 | 0.01 | 0.1 | 0.38 | 0.06 | 0.061 | 0.01 |
| L2-125S | 1 | 5.3 | 23 | 16 | 450 | 84 | 1 | 275 | 184 | 1.68 | 5 | 12 | 2 | 1 | 5 | 1 | 42 | 9 | 4 | 6 | 17 | 31 | 3 | 0.08 | 0.01 | 0.07 | 0.44 | 0.04 | 0.054 | 0.01 |
| L2-150S | 1 | 3.2 | 21 | 21 | 294 | 158 | 2 | 340 | 475 | 2.26 | 4 | 9 | 2 | 1 | 5 | 1 | 38 | 10 | 7 | 6 | 20 | 24 | 2 | 0.23 | 0.01 | 0.09 | 0.46 | 0.04 | 0.075 | 0.01 |
| L2-175S | 1 | 3.5 | 34 | 16 | 430 | 142 | 1 | 333 | 146 | 2.45 | 7 | 14 | 2 | 1 | 5 | 2 | 61 | 12 | 5 | 8 | 21 | 25 | 2 | 0.28 | 0.01 | 0.1 | 0.43 | 0.04 | 0.078 | 0.01 |
| L2-200S | 2 | 3.2 | 29 | 37 | 283 | 341 | 3 | 393 | 482 | 2.86 | 4 | 10 | 2 | 1 | 5 | 1 | 57 | 16 | 10 | 7 | 22 | 25 | 2 | 0.39 | 0.01 | 0.1 | 0.46 | 0.07 | 0.079 | 0.01 |
| L2-250S | 1 | 2.8 | 119 | 122 | 261 | 1848 | 11 | 314 | 1908 | 7.11 | 10 | 16 | 2 | 1 | 5 | 3 | 171 | 102 | 54 | 20 | 38 | 34 | 3 | 0.50 | 0.01 | 0.12 | 1.13 | 0.09 | 0.182 | 0.01 |
| L2-275S | 1 | 0.7 | 26 | 32 | 80 | 144 | 2 | 374 | 624 | 3.12 | 4 | 6 | 2 | 1 | 5 | 1 | 45 | 17 | 12 | 10 | 38 | 26 | 3 | 0.25 | 0.01 | 0.09 | 0.45 | 0.07 | 0.122 | 0.01 |
| L2-300S | 2 | 1.3 | 34 | 31 | 103 | 250 | 1 | 412 | 322 | 3.2 | 6 | 10 | 2 | 1 | 5 | 3 | 57 | 15 | 9 | 8 | 19 | 43 | 2 | 0.23 | 0.01 | 0.09 | 0.41 | 0.07 | 0.069 | 0.01 |
| L2-325S | 1 | 0.8 | 16 | 13 | 91 | 154 | 1 | 287 | 158 | 2.26 | 6 | 8 | 2 | 1 | 5 | 3 | 74 | 8 | 5 | 5 | 13 | 41 | 2 | 0.08 | 0.01 | 0.11 | 0.38 | 0.02 | 0.062 | 0.01 |
| L2-350S | 1 | 1.2 | 77 | 98 | 99 | 3148 | 13 | 341 | 2617 | 7.09 | 8 | 13 | 2 | 1 | 5 | 5 | 42 | 38 | 43 | 14 | 27 | 37 | 10 | 0.19 | 0.01 | 0.15 | 0.39 | 0.04 | 0.104 | 0.01 |
| L2-375S | 1 | 1.3 | 40 | 24 | 155 | 855 | 4 | 315 | 411 | 3.8 | 9 | 13 | 2 | 1 | 5 | 4 | 48 | 12 | 7 | 8 | 20 | 43 | 3 | 0.10 | 0.01 | 0.13 | 0.32 | 0.04 | 0.060 | 0.01 |
| L2-400S | 1 | 1.3 | 79 | 47 | 155 | 6824 | 24 | 181 | 601 | 9.07 | 9 | 8 | 2 | 1 | 5 | 3 | 24 | 25 | 10 | 18 | 21 | 30 | 3 | 0.23 | 0.01 | 0.15 | 0.56 | 0.07 | 0.084 | 0.01 |
| L2-425S | 3 | 1.4 | 54 | 48 | 168 | 5870 | 23 | 209 | 820 | 7.89 | 7 | 9 | 2 | 1 | 5 | 3 | 25 | 29 | 12 | 17 | 19 | 29 | 3 | 0.35 | 0.01 | 0.11 | 0.61 | 0.07 | 0.085 | 0.01 |
| L2-450S | 3 | 0.6 | 23 | 51 | 55 | 8646 | 36 | 239 | 1050 | 6.14 | 5 | 3 | 2 | 1 | 5 | 2 | 35 | 53 | 11 | 23 | 21 | 24 | 3 | 0.62 | 0.01 | 0.06 | 0.93 | 0.14 | 0.100 | 0.01 |
| L2-475S | 4 | 0.6 | 74 | 40 | 130 | 4435 | 23 | 118 | 296 | 6.17 | 13 | 7 | 2 | 1 | 5 | 4 | 25 | 44 | 8 | 21 | 28 | 31 | 3 | 0.53 | 0.01 | 0.1 | 0.74 | 0.17 | 0.077 | 0.01 |
| L2-500S | 4 | 0.4 | 117 | 35 | 77 | 8674 | 60 | 126 | 269 | 22.16 | 22 | 10 | 2 | 1 | 5 | 6 | 6 | 44 | 10 | 23 | 21 | 23 | 6 | 0.07 | 0.01 | 0.12 | 0.53 | 0.05 | 0.065 | 0.02 |
| L2-525S | 2 | 0.7 | 42 | 44 | 108 | 4327 | 18 | 253 | 1030 | 11.3 | 10 | 5 | 2 | 1 | 5 | 8 | 15 | 39 | 21 | 21 | 29 | 47 | 11 | 0.22 | 0.01 | 0.15 | 0.80 | 0.22 | 0.079 | 0.02 |
| L2-550S | 1 | 1.0 | 34 | 51 | 112 | 2663 | 11 | 255 | 376 | 6.4 | 8 | 4 | 2 | 1 | 5 | 4 | 19 | 30 | 11 | 17 | 23 | 58 | 3 | 0.30 | 0.01 | 0.1 | 0.95 | 0.21 | 0.071 | 0.01 |
| L2-575S | 3 | 0.3 | 21 | 42 | 54 | 2415 | 2 | 136 | 410 | 8.85 | 5 | 6 | 2 | 1 | 5 | 3 | 12 | 29 | 12 | 15 | 24 | 28 | 3 | 0.16 | 0.01 | 0.07 | 0.67 | 0.21 | 0.067 | 0.02 |
| L2-600S | 2 | 0.9 | 21 | 39 | 44 | 836 | 4 | 332 | 436 | 3.08 | 3 | 2 | 2 | 1 | 5 | 1 | 36 | 26 | 8 | 12 | 29 | 62 | 2 | 0.53 | 0.02 | 0.07 | 1.42 | 0.24 | 0.113 | 0.01 |
| L3-0S | 19 | 8.4 | 226 | 38 | 1294 | 480 | 2 | 91 | 268 | 7.87 | 9 | 46 | 2 | 1 | 5 | 4 | 38 | 14 | 7 | 16 | 32 | 19 | 3 | 0.15 | 0.01 | 0.42 | 0.39 | 0.15 | 0.098 | 0.02 |
| L3-25S | 5 | 2.1 | 68 | 17 | 355 | 279 | 2 | 108 | 244 | 5.61 | 11 | 17 | 2 | 2 | 5 | 4 | 45 | 4 | 3 | 4 | 9 | 21 | 7 | 0.05 | 0.01 | 0.37 | 0.19 | 0.03 | 0.072 | 0.01 |
| L3-50S | 5 | 2.6 | 67 | 16 | 416 | 208 | 1 | 273 | 162 | 4.37 | 9 | 15 | 2 | 1 | 5 | 2 | 38 | 4 | 3 | 6 | 11 | 16 | 3 | 0.15 | 0.01 | 0.17 | 0.22 | 0.05 | 0.071 | 0.01 |
| L3-75S | 11 | 54.9 | 150 | 63 | 2881 | 1338 | 16 | 603 | 253 | 3.62 | 7 | 97 | 2 | 1 | 5 | 3 | 56 | 26 | 12 | 14 | 34 | 27 | 4 | 0.24 | 0.01 | 0.13 | 0.44 | 0.08 | 0.067 | 0.01 |
| L3-100S | 50 | 20.4 | 175 | 49 | 1057 | 1640 | 20 | 397 | 306 | 4.28 | 7 | 63 | 2 | 1 | 5 | 3 | 63 | 24 | 12 | 12 | 27 | 27 | 3 | 0.38 | 0.01 | 0.15 | 0.49 | 0.07 | 0.068 | 0.01 |
| L3-125S | 6 | 3.8 | 131 | 109 | 149 | 3996 | 40 | 370 | 1587 | 7.35 | 4 | 18 | 2 | 1 | 5 | 7 | 52 | 51 | 41 | 21 | 27 | 46 | 2 | 0.47 | 0.01 | 0.16 | 0.80 | 0.08 | 0.131 | 0.01 |
| L3-150S | 1 | 6.0 | 87 | 73 | 349 | 1639 | 17 | 437 | 977 | 5.95 | 4 | 18 | 2 | 1 | 5 | 4 | 45 | 34 | 29 | 13 | 23 | 41 | 2 | 0.36 | 0.01 | 0.15 | 0.58 | 0.07 | 0.098 | 0.01 |
| L3-175S | 28 | 6.1 | 135 | 85 | 744 | 1851 | 18 | 414 | 828 | 5.73 | 6 | 23 | 2 | 1 | 5 | 4 | 31 | 24 | 19 | 13 | 27 | 37 | 3 | 0.31 | 0.01 | 0.17 | 0.47 | 0.08 | 0.080 | 0.01 |
| L3-200S | 5 | 2.2 | 83 | 74 | 178 | 1707 | 19 | 264 | 1337 | 6.11 | 4 | 12 | 2 | 1 | 5 | 6 | 22 | 32 | 28 | 12 | 20 | 45 | 2 | 0.42 | 0.01 | 0.18 | 0.56 | 0.10 | 0.104 | 0.01 |
| L3-225S | 8 | 5.0 | 81 | 66 | 406 | 1053 | 8 | 396 | 635 | 4.74 | 4 | 13 | 2 | 1 | 5 | 3 | 43 | 19 | 14 | 10 | 21 | 35 | 2 | 0.37 | 0.01 | 0.15 | 0.58 | 0.08 | 0.078 | 0.01 |
| L3-250S | 1 | 2.2 | 19 | 12 | 232 | 113 | 1 | 276 | 256 | 1.59 | 3 | 6 | 3 | 2 | 5 | 1 | 26 | 6 | 5 | 4 | 17 | 19 | 2 | 0.13 | 0.01 | 0.06 | 0.59 | 0.04 | 0.085 | 0.01 |
| L3-275S | 2 | 6.5 | 33 | 24 | 611 | 324 | 3 | 291 | 182 | 1.91 | 6 | 14 | 2 | 1 | 5 | 1 | 59 | 11 | 6 | 7 | 19 | 21 | 2 | 0.29 | 0.01 | 0.09 | 0.32 | 0.04 | 0.082 | 0.01 |
| L3-300S | 1 | 0.8 | 7 | 30 | 37 | 97 | 2 | 142 | 752 | 2.39 | 1 | 2 | 2 | 1 | 5 | 1 | 44 | 7 | 10 | 3 | 10 | 15 | 4 | 1.29 | 0.02 | 0.11 | 0.48 | 0.10 | 0.106 | 0.01 |
| L3-325S | 4 | 2.0 | 80 | 102 | 141 | 1758 | 8 | 211 | 1269 | 6.49 | 4 | 10 | 2 | 1 | 5 | 4 | 33 | 36 | 34 | 15 | 28 | 42 | 2 | 0.42 | 0.01 | 0.1 | 0.35 | 0.06 | 0.115 | 0.01 |
| L3-350S | 4 | 7.2 | 160 | 144 | 652 | 2053 | 16 | 452 | 1190 | 6.8 | 7 | 17 | 2 | 1 | 5 | 5 | 59 | 54 | 41 | 50 | 59 | 41 | 2 | 0.56 | 0.01 | 0.16 | 1.07 | 0.64 | 0.105 | 0.04 |
| L3-375S | 4 | 2.9 | 49 | 78 | 284 | 7761 | 19 | 311 | 3642 | 10.92 | 6 | 12 | 2 | 1 | 5 | 4 | 30 | 55 | 45 | 21 | 20 | 40 | 6 | 0.41 | 0.01 | 0.13 | 0.42 | 0.07 | 0.097 | 0.01 |

| | Au | Ag | As | Cu | Pb | Zn | Cd | Ba | Mn | Fe | Mo | Sb | Bi | W | U | Th | Sr | Ni | Co | Cr | V | La | B | Ca | Na | K | Al | Mg | P | Ti |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | ppb | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | ppm | % | % | % | % | % | % | % |
| L3-400S | 5 | 2.3 | 51 | 89 | 295 | 7532 | 19 | 386 | 5466 | 13.76 | 10 | 11 | 2 | 1 | 5 | 4 | 35 | 55 | 60 | 19 | 23 | 27 | 4 | 0.42 | 0.01 | 0.11 | 0.38 | 0.06 | 0.079 | 0.01 |
| L3-425S | 4 | 1.2 | 28 | 24 | 118 | 2787 | 6 | 199 | 517 | 4.38 | 7 | 10 | 2 | 1 | 5 | 3 | 44 | 14 | 8 | 11 | 18 | 40 | 3 | 0.19 | 0.01 | 0.09 | 0.50 | 0.05 | 0.058 | 0.01 |
| L3-450S | 3 | 0.4 | 14 | 20 | 80 | 1295 | 5 | 183 | 313 | 3.26 | 4 | 2 | 2 | 1 | 5 | 1 | 33 | 8 | 6 | 2 | 23 | 25 | 5 | 0.22 | 0.02 | 0.08 | 0.44 | 0.04 | 0.056 | 0.01 |
| L3-475S | 7 | 1.1 | 44 | 44 | 113 | 6581 | 26 | 295 | 1574 | 10.16 | 11 | 7 | 2 | 2 | 5 | 3 | 43 | 29 | 18 | 10 | 26 | 40 | 7 | 0.20 | 0.01 | 0.13 | 0.53 | 0.07 | 0.066 | 0.01 |
| L3-500S | 7 | 1.1 | 43 | 35 | 109 | 6595 | 28 | 295 | 1843 | 10.68 | 11 | 7 | 2 | 3 | 5 | 3 | 38 | 27 | 18 | 7 | 26 | 36 | 2 | 0.17 | 0.01 | 0.12 | 0.54 | 0.06 | 0.069 | 0.01 |
| L3-525S | 4 | 1.0 | 40 | 34 | 114 | 5848 | 24 | 275 | 1390 | 9.32 | 10 | 7 | 2 | 3 | 5 | 3 | 38 | 25 | 15 | 7 | 24 | 39 | 3 | 0.15 | 0.01 | 0.12 | 0.50 | 0.06 | 0.068 | 0.01 |
| L3-550S | 4 | 1.4 | 36 | 41 | 120 | 5777 | 19 | 158 | 1328 | 9.85 | 8 | 6 | 2 | 4 | 5 | 1 | 24 | 27 | 13 | 8 | 23 | 29 | 8 | 0.32 | 0.01 | 0.1 | 0.79 | 0.08 | 0.084 | 0.01 |
| L3-575S | 2 | 1.5 | 48 | 51 | 88 | 6391 | 28 | 170 | 4366 | 15.11 | 12 | 2 | 2 | 1 | 5 | 3 | 14 | 32 | 29 | 10 | 26 | 40 | 6 | 0.20 | 0.01 | 0.08 | 0.81 | 0.12 | 0.083 | 0.01 |
| L3-600S | 4 | 1.0 | 50 | 58 | 109 | 7273 | 22 | 196 | 2105 | 12.28 | 12 | 2 | 2 | 2 | 5 | 4 | 12 | 42 | 22 | 14 | 31 | 47 | 2 | 0.15 | 0.01 | 0.1 | 0.95 | 0.18 | 0.089 | 0.02 |
| L4-0S | 1 | 0.2 | 10 | 30 | 31 | 108 | 1 | 420 | 597 | 3.87 | 4 | 2 | 2 | 1 | 5 | 1 | 33 | 23 | 12 | 17 | 28 | 34 | 6 | 0.55 | 0.01 | 0.1 | 1.08 | 0.28 | 0.114 | 0.01 |
| L4-25S | 2 | 2.3 | 130 | 42 | 326 | 775 | 4 | 230 | 1057 | 6.25 | 3 | 12 | 2 | 1 | 7 | 1 | 39 | 25 | 16 | 20 | 25 | 36 | 2 | 0.38 | 0.01 | 0.11 | 0.71 | 0.30 | 0.148 | 0.01 |
| L4-50S | 5 | 4.5 | 225 | 36 | 834 | 1144 | 4 | 213 | 921 | 7.04 | 3 | 25 | 2 | 1 | 5 | 1 | 57 | 16 | 11 | 11 | 17 | 30 | 2 | 0.24 | 0.01 | 0.17 | 0.33 | 0.10 | 0.150 | 0.01 |
| L4-75S | 14 | 9.3 | 362 | 43 | 1513 | 745 | 4 | 291 | 533 | 6.9 | 5 | 25 | 2 | 1 | 5 | 3 | 75 | 20 | 13 | 13 | 26 | 30 | 4 | 0.27 | 0.01 | 0.31 | 0.52 | 0.14 | 0.170 | 0.01 |
| L4-100S | 13 | 8.1 | 251 | 45 | 1214 | 750 | 3 | 312 | 536 | 6.73 | 6 | 24 | 2 | 1 | 5 | 2 | 68 | 23 | 13 | 17 | 29 | 30 | 4 | 0.41 | 0.01 | 0.26 | 0.64 | 0.19 | 0.153 | 0.01 |
| L4-125S | 10 | 6.8 | 197 | 42 | 840 | 434 | 1 | 335 | 374 | 7.46 | 7 | 27 | 2 | 1 | 5 | 1 | 58 | 11 | 8 | 14 | 27 | 29 | 4 | 0.25 | 0.01 | 0.29 | 0.53 | 0.11 | 0.143 | 0.01 |
| L4-150S | 6 | 5.6 | 133 | 34 | 659 | 600 | 4 | 280 | 764 | 6.33 | 5 | 23 | 3 | 1 | 5 | 1 | 53 | 12 | 11 | 12 | 28 | 28 | 3 | 0.46 | 0.01 | 0.2 | 0.68 | 0.15 | 0.161 | 0.01 |
| L4-175S | 2 | 0.7 | 49 | 33 | 147 | 360 | 1 | 155 | 273 | 7.09 | 7 | 2 | 2 | 1 | 5 | 3 | 9 | 13 | 8 | 31 | 41 | 23 | 5 | 0.09 | 0.01 | 0.11 | 0.75 | 0.35 | 0.077 | 0.04 |
| L4-200S | 2 | 1.1 | 24 | 20 | 170 | 293 | 3 | 234 | 210 | 2.86 | 4 | 2 | 2 | 1 | 5 | 1 | 21 | 10 | 6 | 10 | 18 | 19 | 9 | 0.19 | 0.01 | 0.06 | 0.74 | 0.11 | 0.102 | 0.01 |
| L4-225S | 5 | 4.4 | 45 | 36 | 684 | 510 | 2 | 262 | 564 | 4.83 | 5 | 14 | 2 | 1 | 5 | 2 | 51 | 32 | 19 | 25 | 33 | 31 | 2 | 0.32 | 0.01 | 0.13 | 0.86 | 0.34 | 0.106 | 0.02 |
| L4-250S | 4 | 2.7 | 37 | 38 | 440 | 373 | 1 | 386 | 499 | 5.05 | 5 | 8 | 2 | 1 | 5 | 1 | 42 | 38 | 18 | 31 | 40 | 27 | 2 | 0.40 | 0.01 | 0.13 | 0.96 | 0.45 | 0.089 | 0.02 |
| L4-275S | 10 | 5.3 | 60 | 59 | 598 | 1073 | 6 | 405 | 839 | 5.83 | 7 | 14 | 2 | 1 | 5 | 2 | 27 | 29 | 21 | 11 | 22 | 49 | 2 | 0.23 | 0.01 | 0.13 | 0.77 | 0.16 | 0.106 | 0.01 |
| L4-300S | 13 | 8.1 | 66 | 39 | 1010 | 630 | 3 | 378 | 580 | 4.65 | 6 | 19 | 2 | 1 | 5 | 1 | 31 | 23 | 15 | 13 | 24 | 42 | 11 | 0.24 | 0.01 | 0.13 | 0.69 | 0.17 | 0.095 | 0.01 |
| L4-325S | 14 | 3.9 | 62 | 37 | 531 | 530 | 3 | 341 | 531 | 4.4 | 6 | 14 | 2 | 1 | 5 | 1 | 31 | 21 | 15 | 9 | 23 | 35 | 2 | 0.35 | 0.01 | 0.11 | 0.67 | 0.13 | 0.109 | 0.01 |
| L4-350S | 23 | 3.9 | 62 | 56 | 467 | 735 | 5 | 390 | 658 | 4.71 | 7 | 13 | 2 | 1 | 5 | 1 | 33 | 26 | 20 | 9 | 23 | 42 | 3 | 0.47 | 0.01 | 0.11 | 0.64 | 0.13 | 0.090 | 0.01 |
| L4-375S | 12 | 3.0 | 43 | 48 | 337 | 795 | 4 | 467 | 429 | 4.13 | 5 | 9 | 2 | 1 | 5 | 1 | 35 | 28 | 13 | 8 | 21 | 40 | 2 | 0.50 | 0.01 | 0.09 | 0.82 | 0.12 | 0.082 | 0.01 |
| L4-400S | 5 | 2.8 | 41 | 41 | 317 | 679 | 3 | 601 | 268 | 3.98 | 4 | 6 | 3 | 1 | 5 | 1 | 37 | 22 | 12 | 8 | 20 | 41 | 2 | 0.71 | 0.01 | 0.07 | 0.86 | 0.14 | 0.089 | 0.01 |
| L4-425S | 10 | 1.9 | 31 | 37 | 244 | 759 | 3 | 333 | 447 | 4.16 | 4 | 3 | 2 | 1 | 5 | 1 | 30 | 27 | 12 | 7 | 17 | 34 | 2 | 0.42 | 0.01 | 0.11 | 0.67 | 0.10 | 0.078 | 0.01 |
| L4-450S | 13 | 4.5 | 65 | 45 | 519 | 632 | 4 | 341 | 412 | 4.42 | 6 | 16 | 2 | 1 | 5 | 3 | 38 | 28 | 15 | 12 | 22 | 43 | 8 | 0.49 | 0.01 | 0.13 | 0.49 | 0.17 | 0.113 | 0.01 |
| L4-475S | 20 | 4.7 | 88 | 62 | 634 | 946 | 7 | 309 | 512 | 5.14 | 8 | 15 | 2 | 1 | 5 | 2 | 36 | 32 | 17 | 10 | 25 | 40 | 2 | 0.31 | 0.01 | 0.14 | 0.51 | 0.13 | 0.104 | 0.01 |
| L4-500S | 27 | 5.5 | 99 | 64 | 741 | 1148 | 10 | 333 | 710 | 5.43 | 9 | 17 | 2 | 1 | 5 | 2 | 40 | 30 | 21 | 9 | 26 | 42 | 5 | 0.41 | 0.01 | 0.15 | 0.54 | 0.13 | 0.106 | 0.01 |
| L4-525S | 13 | 3.9 | 64 | 46 | 510 | 737 | 7 | 284 | 697 | 4.64 | 6 | 12 | 2 | 1 | 5 | 3 | 37 | 28 | 20 | 11 | 23 | 44 | 4 | 0.53 | 0.01 | 0.14 | 0.47 | 0.15 | 0.148 | 0.01 |
| L4-550S | 22 | 4.7 | 90 | 59 | 607 | 1024 | 12 | 330 | 602 | 5.09 | 9 | 16 | 2 | 1 | 5 | 2 | 41 | 29 | 19 | 9 | 29 | 40 | 4 | 0.69 | 0.01 | 0.15 | 0.46 | 0.15 | 0.121 | 0.01 |
| TS-1 | 34 | 1.0 | 214 | 106 | 196 | 300 | 7 | 22 | 2101 | 8.93 | 2 | 7 | 2 | 1 | 5 | 9 | 43 | 43 | 21 | 16 | 8 | 20 | 2 | 5.85 | 0.01 | 0.02 | 0.16 | 1.79 | 0.101 | 0.01 |
| TS-2 | 116 | 78.6 | 3226 | 970 | 21953 | 123 | 2 | 11 | 3156 | 14.76 | 1 | 147 | 2 | 1 | 8 | 1 | 33 | 30 | 24 | 13 | 6 | 5 | 6 | 10.49 | 0.01 | 0.02 | 0.15 | 4.19 | 0.029 | 0.01 |
| VKR 401 | 30 | 0.1 | 24 | 3 | 13 | 5 | 1 | 1 | 2003 | 2.83 | 1 | 2 | 2 | 1 | 5 | 1 | 970 | 1 | 2 | 1 | 2 | 3 | 2 | 27.23 | 0.01 | 0.01 | 0.08 | 0.41 | 0.003 | 0.01 |
| VKR 402 | 6880 | 0.5 | 870 | 40 | 9 | 42 | 4 | 1 | 10438 | 20.81 | 1 | 2 | 2 | 2 | 6 | 4 | 371 | 4 | 11 | 4 | 4 | 2 | 2 | 12.67 | 0.01 | 0.01 | 0.57 | 0.89 | 0.003 | 0.01 |
| VKR 403 | 11 | 0.3 | 34 | 133 | 5 | 23 | 3 | 4 | 7184 | 15.31 | 1 | 2 | 2 | 1 | 5 | 3 | 153 | 14 | 16 | 3 | 4 | 2 | 2 | 13.81 | 0.01 | 0.02 | 0.19 | 1.86 | 0.020 | 0.01 |

# TWO POPULATION LOGNORMAL MODEL

## STATISTICAL PARAMETERS

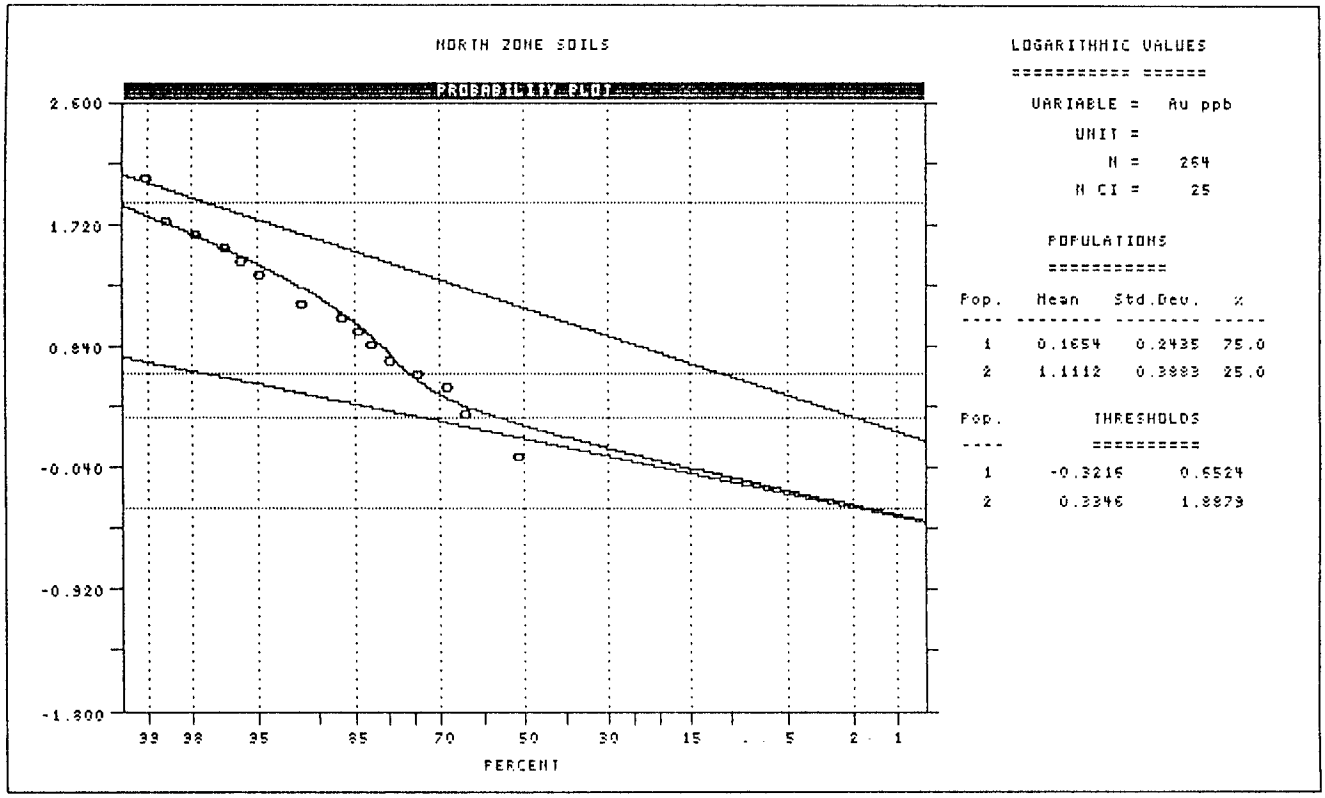



| | |
|---|---|
| $M_1$ | Mean for Population 1 |
| $M_2$ | Mean for Population 2 |
| $USD_1$ | One upper standard deviation for Population 1 |
| $2USD_1$ | Two upper standard deviations for Population 1 |
| $LSD_2$ | One lower standard deviation for Population 2 |
| $USD_2$ | One upper standard deviation for Population 2 |

| | |
|---|---|
| B | Background |
| PA | Possibly Anomalous |
| A | Anomalous |
| SA | Strongly Anomalous |

| | | | |
|---|---|---|---|
| Background | 0 | to | $2USD_1$ |
| Possibly Anomalous | $2USD_1$ | to | $LSD_2$ |
| Anomalous | $LSD_2$ | to | $USD_2$ |
| Strongly Anomalous | $USD_2$+ | | |

Figure 13.



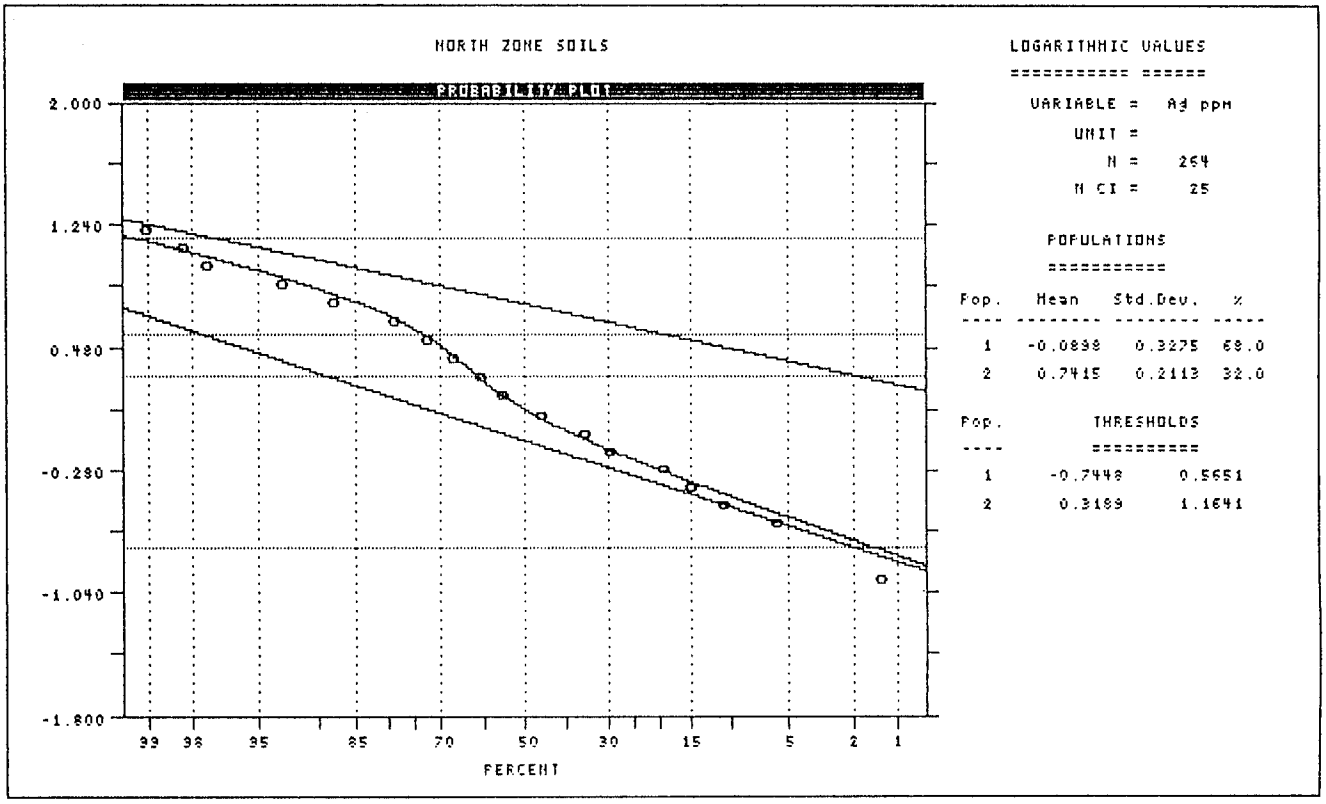
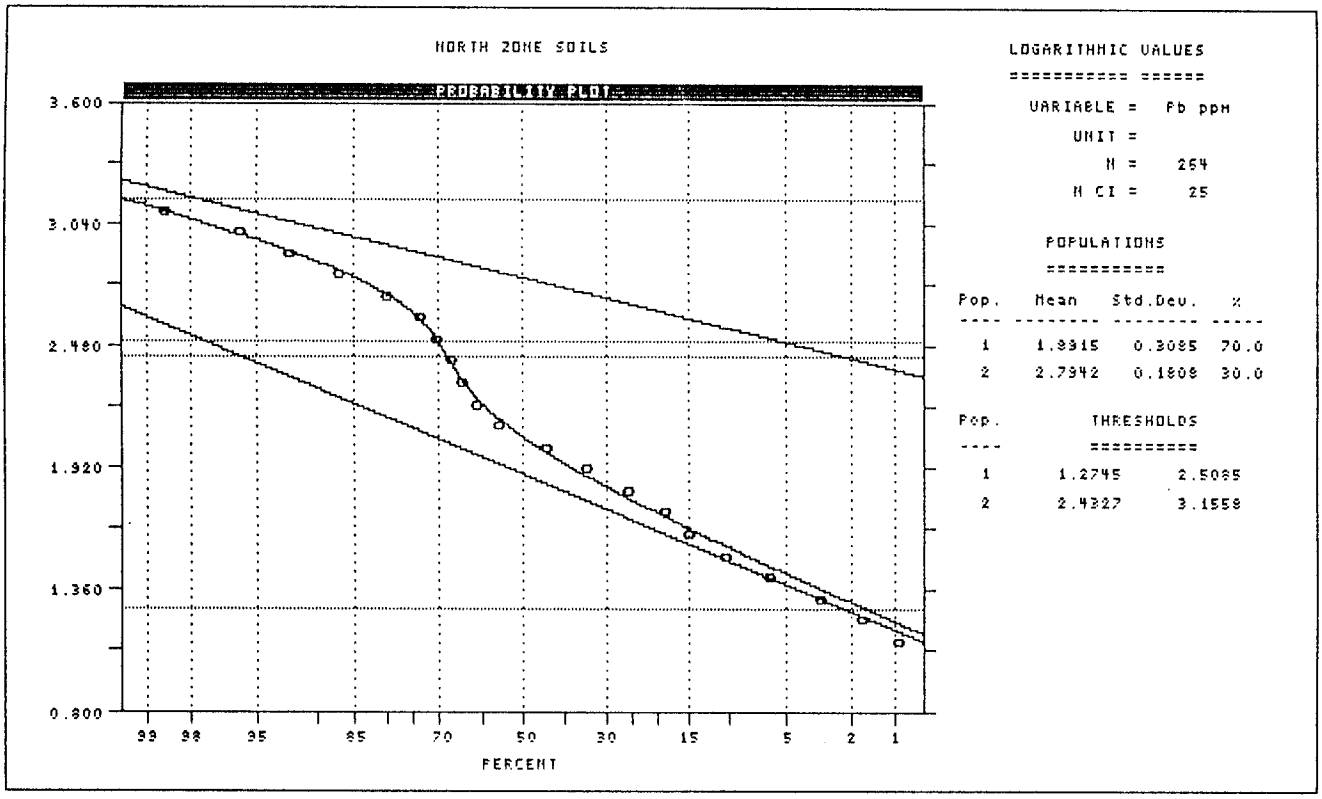




Figure 14. Probability Plots of Au and Ag: North Zone - Eve claims. 1989 and 1987 results combined.



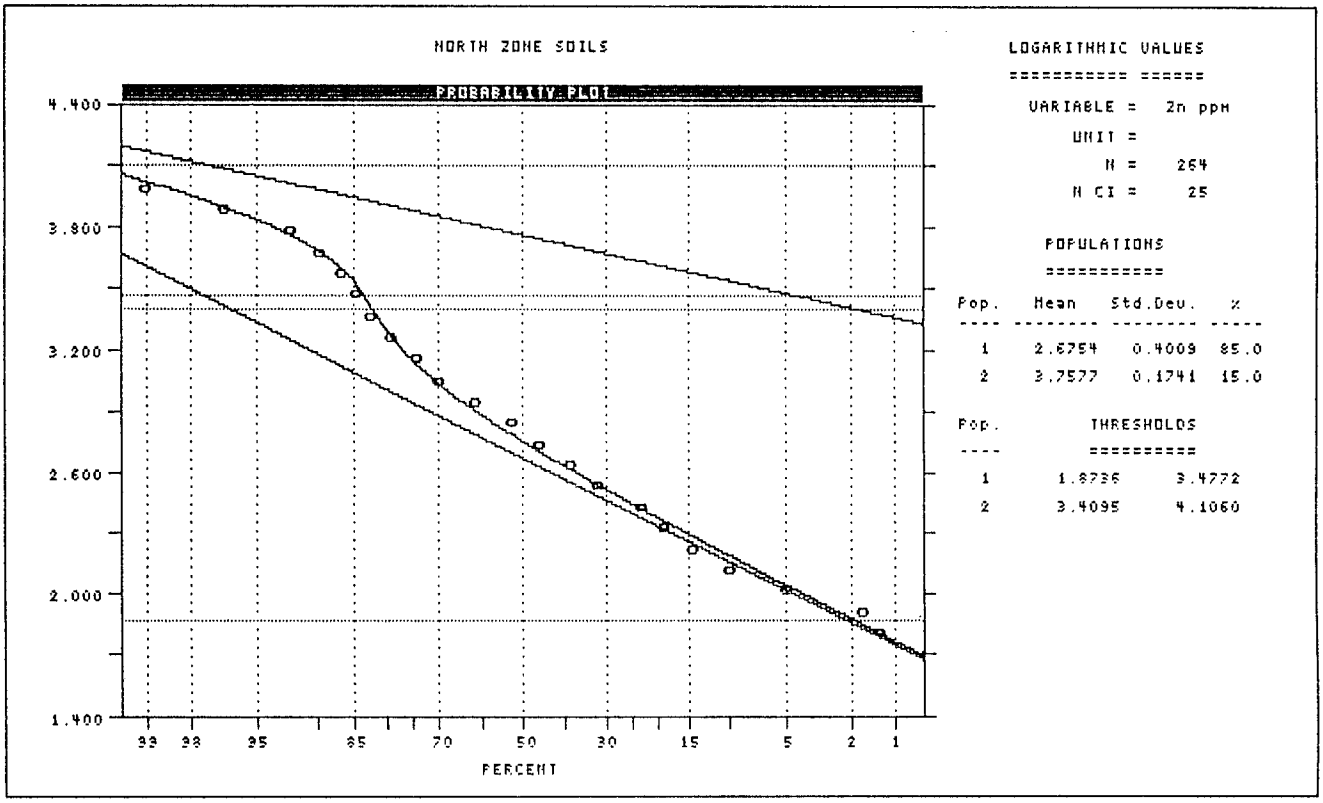
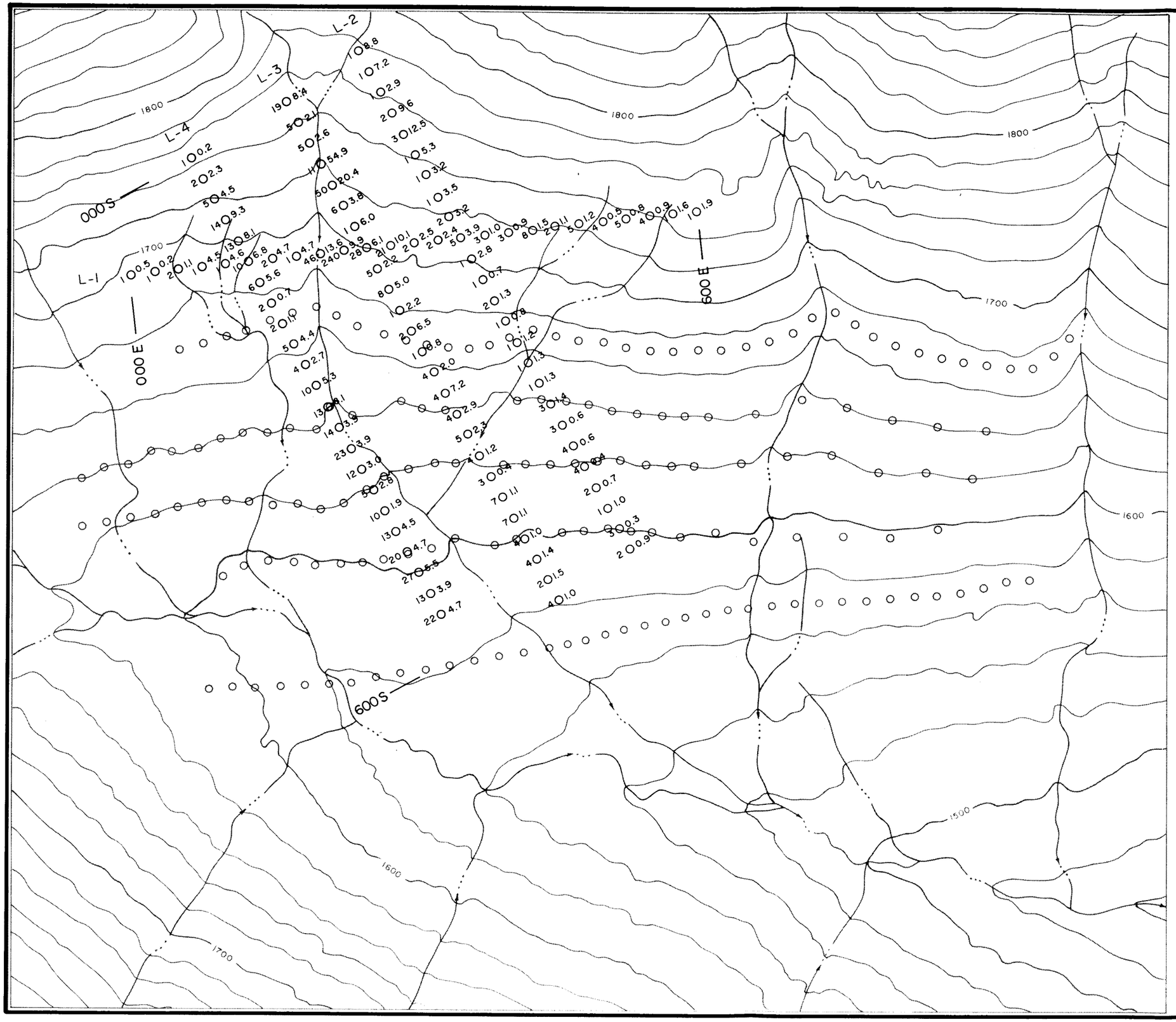




Figure 15. Probability Plots of Au and Ag: North Zone - Eve claims. 1989 and 1987 results combined.




N

## EXPLANATION

Au ○ Ag — SOIL SAMPLE SITE WITH GOLD IN ppb, SILVER IN ppm.

SAMPLE INTERVAL 25 METRES

| | GOLD (ppb) | SILVER (ppm) |
|---|---|---|
| BACKGROUND | 0 - 4 | 0 - 3.3 |
| POSSIBLY ANOMALOUS | 5 - 6 | 3.4 - 3.7 |
| ANOMALOUS | 7 - 32 | 3.8 - 8.9 |
| STRONGLY ANOMALOUS | 33+ | 9.0+ |

NOTE:

SCREENED SAMPLE SITES ARE LOCATIONS OF 1987 SAMPLING.

MOUNTAIN PROVINCE MINING INC.

# GEOCHEMISTRY

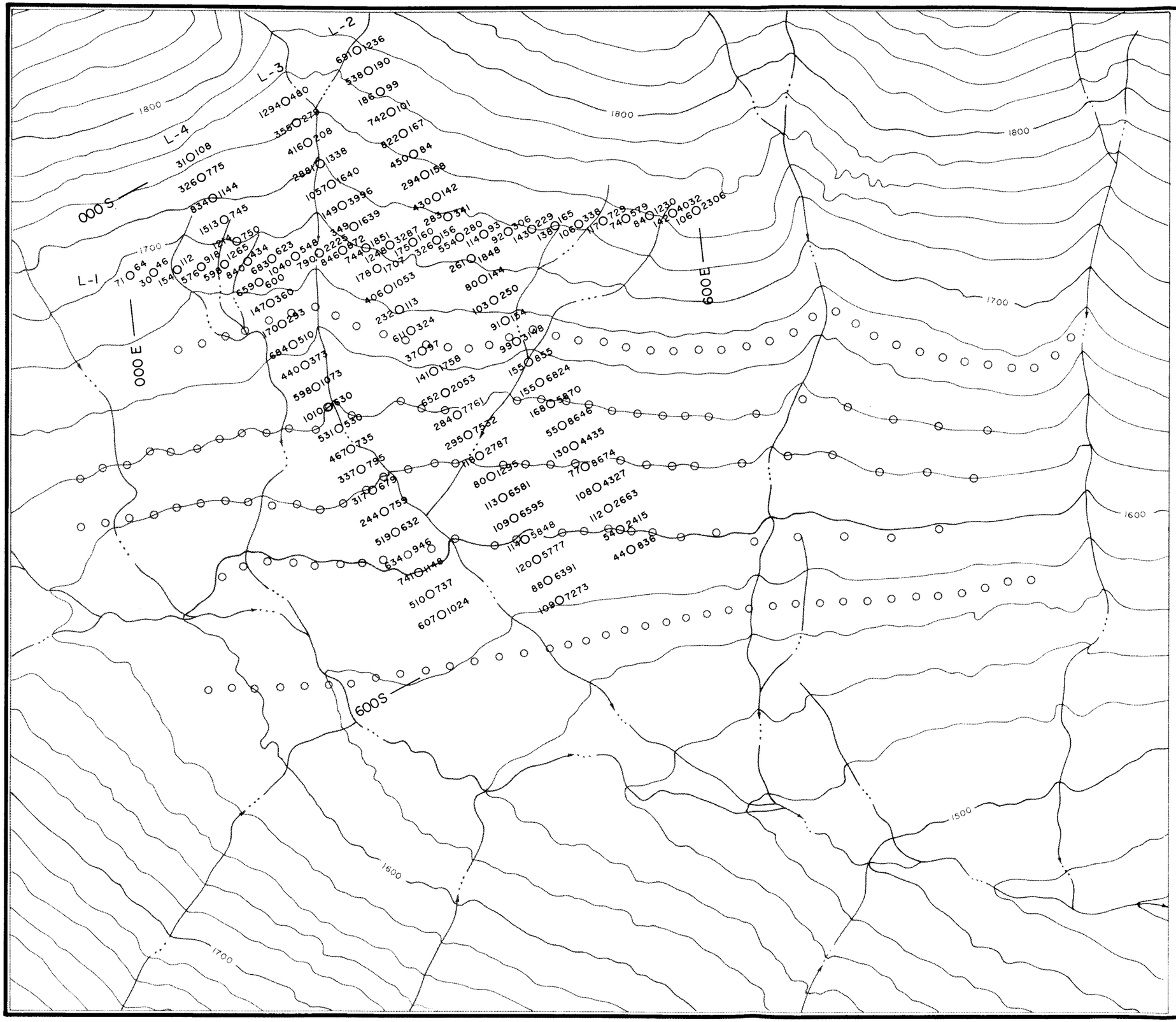
# GOLD AND SILVER

EVE 67-72 CLAIMS

SCALE 1: 4,000

0 100 200 300 m

FIGURE 16




## EXPLANATION

Pb O Zn — SOIL SAMPLE SITE WITH LEAD AND ZINC IN ppm.

SAMPLE INTERVAL 25 METRES

| | LEAD (ppm) | ZINC (ppm) |
|---|---|---|
| BACKGROUND | 0 - 324 | 0 - 2999 |
| POSSIBLY ANOMALOUS | 325 - 409 | 3000 - 3829 |
| ANOMALOUS | 410 - 944 | 3830 - 8549 |
| STRONGLY ANOMALOUS | 945+ | 8549+ |

NOTE:

SCREENED SAMPLE SITES ARE LOCATIONS OF 1987 SAMPLING.

MOUNTAIN PROVINCE MINING INC.

# GEOCHEMISTRY

# LEAD AND ZINC

EVE 67-72 CLAIMS

SCALE 1 : 4,000

0 100 200 300 m

FIGURE 17

# APPENDIX B

# GEOPHYSICAL REPORT

PACIFIC GEOPHYSICAL LTD.

REPORT ON THE

# INDUCED POLARIZATION AND RESISTIVITY SURVEY, AND THE MAGNETIC SURVEY

ON THE

KETZA PROJECT
WATSON LAKE M.D., YUKON

FOR

MOUNTAIN PROVINCE MINING INC.

N.T.S. 105F/9

BY

MARTIN ST. PIERRE, B.Sc.
Geophysicist

AND

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: DECEMBER 22, 1989

## TABLE OF CONTENTS

**PART A REPORT** **PAGE**


1. Introduction . . . . . 1
2. Presentation of Data . . . . . 3
3. Discussion of Results . . . . . 6
4. Conclusions and Recommendations. . . . . 13
5. Personnel. . . . . 17
6. Statement of Cost . . . . . 18
7. Certificate : Martin St. Pierre, B.Sc. . . . . 19
8. Certificate : Paul A. Cartwright, P.Geoph. . . 20


**PART B ILLUSTRATIONS**


Magnetic Contour Map/Induced Polarization Interpretation . . . . . File : MKETZAL.Ext

Magnetic Data Map . . . . . File : MKETDAT.Ext

Induced Polarization Contoured Plan Maps : Main Grid West/Lake Zones
n=1 Dwg. No. IPP-3024M1
n=2 Dwg. No. IPP-3024M2
North Grid
n=1 Dwg. No. IPP-2035M1
n=2 Dwg. No. IPP-2035M2

Resistivity Contoured Plan Maps : Main Grid West/Lake Zones
n=1 Dwg. No. IPP-3024R1
n=2 Dwg. No. IPP-3024R2
North Grid
n=1 Dwg. No. IPP-2035R1
n=2 Dwg. No. IPP-2035R2

Induced Polarization and Resistivity Pseudosections : . . . . . 13 Pseudosections

# 1. INTRODUCTION

An Induced Polarization (IP) and resistivity survey has been completed on the White and Eve Claims, Watson Lake M.D., Yukon at the request of Amerlin Exploration Services Ltd., project manager for Mountain Province Mining Inc.

The property is located approximately 10 km west of the Canamax Ketza Mine. Access to the property is mainly by helicopter from Ross River, although a very rough road exists from the Ketza Mine.

Geologically, the area is dominated by a thick carbonate unit with frequent horizons of graphite rich shales and limestones.

The IP and resistivity survey was carried out on lines 100 meters apart on the Lake and West Zones of the Main Grid and on the North Grid. The magnetometer survey was carried out on lines 50 meters and 100 meters apart on the Main Grid.

The objective of the present geophysical program was to detect gold bearing metallic sulfides of the type found at the Canamax Mine.

For the IP and resistivity survey, an EDA Model IP-6 induced polarization and resistivity receiver unit was used set

to "Mode 3", a software selectable sampling interval comprised of 10 logarithmically spaced windows following a delay time of 80 msec. The plotted IP effect is the cumulative average of the areas encompassed by each of the 10 windows. These are recorded as cheageabilities in the time domain (msec.). The receiver was used in conjunction with a Phoenix Model IPT-1 IP and resistivity transmitter producing a square wave using a 2 second on-2 second off cycle of alternating polarity. Dipole-dipole array was utilized to make all of the measurements using an interelectrode distance of 25 meters. An attempt was made to record 5 separations in every case, although due to the very low voltages caused by the abundance of very conductive graphite in the area, this was not always successful.

The magnetometer survey used three EDA Model Omni IV proton procession magnetometers with two units being used as field units and one as a base station to correct for diurnal variations.

The IP and resistivity field work took place during the period September 18, 1989 to September 29, 1989 under the direction of Martin St. Pierre, B.Sc., whose certificate of qualification is included in this report.

A total of 9.18 kilometers of line were surveyed using the

IP and resistivity technique. A total of 37.8 kilometers of line was surveyed with the magnetometers, at a sampling interval of 12.5 meters. Amerlin Exploration Services Ltd. personnel recorded the magnetic measurements.

## 2. PRESENTATION OF DATA

The IP and resistivity results are displayed in pseudosection format in the following order:

| Line | | Electrode Interval | Survey Interval |
|---|---|---|---|
| Main Grid | | | |
| West Zone | 2000E | 25 m | 2100N-3100N (1000 m) |
| | 2100E | 25 m | 2100N-3100N (1000 m) |
| | 2200E | 25 m | 2100N-3100N (1000 m) |
| | 2300E | 25 m | 2100N-2975N ( 875 m) |
| | 2400E | 25 m | 2100N-2950N ( 850 m) |
| Lake Zone | 2900E | 25 m | 3600N-4000N ( 400 m) |
| | 3000E | 25 m | 3500N-4000N ( 500 m) |
| | 3100E | 25 m | 3500N-4000N ( 500 m) |
| | 3450E | 25 m | 4400N-5100N ( 700 m) |
| North Grid | | | |
| | 1 | 25 m | 0-600E ( 600 m) |
| | 2 | 25 m | 0-600S ( 600 m) |
| | 3 | 25 m | 0-600S ( 600 m) |
| | 4 | 25 m | 0-550S ( 550 m) |

The IP and resistivity data has also been presented as contoured plan maps in the following manner:

Main Grid

| Scale | Dwg. No. | Contour Interval | n Separation | Value Plotted |
|---|---|---|---|---|
| 1:5000 | IPP-3024M1 | Logarithmic (10,20,30,50,75,100 msec) | n=1 | Obs. chargeability |
| 1:5000 | IPP-3024M2 | " " | n=2 | " " |
| 1:5000 | IPP-3024R1 | " ( " ohm-m) | n=1 | Resistivity |
| 1:5000 | IPP-3024R2 | " " | n=2 | " |

North Grid

| | | | | |
|---|---|---|---|---|
| 1:4000 | IPP-2035M1 | Logarithmic (10,20,30,50,75,100 msec) | n=1 | Obs. chargeability |
| 1:4000 | IPP-2035M2 | " " | n-2 | " " |
| 1:4000 | IPP-2035R1 | " ( " ohm-m) | n=1 | Resistivity |
| 1:4000 | IPP-2035R2 | " " | n=2 | " |

The magnetometer survey data is presented on two plan maps. These consist of a 1:5000 scale plan map of the posted values (corrected for diurnal variations) labelled "MKETDAT.EXT" as well as a 1:5000 scale contoured plan map of the same data set, labelled "MKETZAL.EXT".

The individual IP anomalies have been indicated by bars, in the manner shown on the legend, on the plan maps of the n=1 and n=2 observed chargeabilities, as well as on the plan map of the contoured magnetic data (labelled "MKETZAL.EXT"). This anomaly illustration technique is also used on the pseudosections included with this report. These bars represent the surface projection of the anomalous zones as interpreted from the location of the transmitter and receiver electrodes when the anomalous values were measured. The outlines of anomalous IP zones indicated on the contoured magnetic map of the Main Grid (MKETZAL.EXT) and n=1 observed chargeabilities map of the North Grid (IPP-2035M1) result from the line-to-line correlation of individual anomalies.

Since the induced polarization process is essentially an averaging process, as are all of the potential methods, it is frequently difficult to exactly pinpoint the source of an anomaly. Certainly, no anomaly can be located with more accuracy than the electrode interval length; i.e. when using a

25 meter electrode interval, the position of a narrow sulphide body can only be determined to lie between two stations 25 meters apart. In order to definitely locate, and fully evaluate a narrow, shallow source, it is necessary to use shorter electrode intervals. In order to locate sources at some depth, larger electrode intervals must be used, with a corresponding increase in the uncertainties of location. Therefore, while the center of the indicated anomaly corresponds fairly well with the source, the length of the indicated anomaly along the line should not be taken to represent the exact edges of the anomalous materials.

## 3. DISCUSSION OF RESULTS

The interpretation of the results has been complicated by the presence of graphite, of varying concentrations, within the rocks. On almost every line surveyed there is strong evidence of massive concentrations of graphite. These areas are characterized by very low resistivity ($<$ 50 Ohm-m) and very high or unreadable chargeabilities. Because the graphite affects the chargeability in the same way as metallic sulfides the resistivities may be the only key to distinguishing between them. The magnetometer data is also useful in distinguishing between graphite and metallic sulfides because of the possible presence of pyrrhotite, a magnetic metallic sulfide.

The individual induced polarization anomalies have been grouped into trends which are described individually in the following section, together with the magnetometer data.

## Main Grid - West Zone

Six induced polarization trends have been defined in the west zone and are presented in File: MKETZAL.EXT.

### Trend W-1

This anomalous trend extends from Line 2000E to Line 2300E. The chargeability amplitude increases from east to west and the resistivities decrease from east to west. The depth to the top of the source is within one dipole width (25 meters) of the surface. The nature of the source could be either graphite and/or sulfides. The very low resistivities, seen only on Line 2000E at Station 2275N, are characteristic of graphite whereas on the same line, at Station 2212.5N resistivities are higher, perhaps indicating a different type of source, such as metallic sulfides. A magnetic low on Line 2000E at Station 2275N supports the presence of graphite. This trend is unbounded to the west.

### Trend W-2

This anomalous trend extends from Line 2000E to Line 2400E.

The chargeability amplitude is strongly variable with a maximum on Line 2100E, Station 2287.5N. The resistivities decrease from east to west. The depth to the top of the source is within 25 meters of the surface. The moderate to high resistivities related to this trend are a favorable argument for a metallic sulfide source. This trend is unbounded to the east and west.

Trend W-3

This anomalous trend extends from Line 2000E to Line 2400E. The chargeabilities increase from east to west while the resistivities decrease from east to west. The depth to the top of the source is within 25 meters of the surface. The very low resistivities on Lines 2000E, 2100E and 2200E suggest a graphitic source. On Line 2400E the resistivities have increased dramatically.

Trend W-4

This anomalous trend extends from Line 2200E to 2400E. The chargeabilities are of moderate amplitude. The resistivities are moderate to high in magnitude. Depth to the top of the source is within 25 meters of the surface. The resistivity values indicate a metallic sulfide source may be present. Trend W-4 remains unbounded to the east.

Trend W-5

This anomalous trend extends from Line 2000E to Line 2400E. The amplitude of the IP effect is variable and reaches a maximum on Line 2100E, Station 2812.5E. The resistivity amplitudes vary from moderate to high. Depth to the top of the source is within 25 meters of the surface, and on Lines 2100E and 2000E the anomaly seems to be underlain by a very low resistivity zone, probably caused by graphite associated with Trend W-6. On Lines 2100E and 2300E, Trend W-5 is closely associated with high amplitude magnetic readings. These highs form a discontinuous trend extending from Line 1250E, Station 3012.5N to Line 2500E, Station 2650N. The source of the induced polarization anomaly may be metallic sulfides. The source of the magnetic high could be the metallic sulfide pyrrhotite, although thin mafic dikes, which are often magnetic, have been observed in the immediate area of these highs. This Trend is unbounded to the east and west.

Trend W-6

This anomalous trend extends from Line 2200E to Line 2400E. The amplitudes of the chargeability values are high while the resistivities are low in magnitude. The depth to the top of the source is within 25 meters of the surface on Line 2200E, Station 2987.5N, but on Lines 2300E and 2400E the anomaly is overlain by more resistive material. The main source is probably graphitic

material. This Trend remains unbounded to the east.

An area of strong magnetic activity is located between Lines 2400E and 2800E and Stations 1300N and 1850N. The sources of these variable magnetic responses are unknown, but the amplitude of the observed values is probably too great to have been caused solely by a pyrrhotitic source.

Main Grid - Lake Zone

Three induced polarization trends have been defined on the Lake Zone Grid, and are illustrated on the plan map labelled "MKETZAL.EXT".

Trend L-1

This anomalous trend extends from Line 2900E to Line 3000E. The chargeability amplitude is high and the resistivity amplitude is low. The depth to the top of the source is within 25 meters of the surface. The source is probably a graphite rich zone. The Trend is unbounded to the east and west.

Trend L-2

This anomalous zone extends from Line 2900E to Line 3100E. The chargeability amplitudes are moderate while the magnitudes of the resistivity values are moderate to high. Depth to the

top of the source appears to be within 25 meters sub-surface, although on Line 3100E it seems to have gained some depth compared to Lines 2900E and 3000E. The source of the anomaly is interpreted to be metallic sulfides. The Trend is unbounded to the east and west.

Trend L-3

This anomalous trend extends from Line 3100E to 3000E, although on Line 3000E only the southern edge has been defined. The chargeability is of moderate amplide. The resistivity measurements are of moderate to low amplitude. Depth to the source of the anomaly is probably in the range of 20 meters to 25 meters. The source of the anomaly could be either graphite or sulfide here because of the moderate to low resistivities. The Trend is unbounded to the east and west.

Line 3450E is isolated; therefore, no trends can be defined in this area. The chargeability amplitude is moderate to high along most of the line. At Station 4650N there is a chargeability peak which appears to be located at a depth greater than 25 meters. The chargeability peak at Station 4775N has low associated resistivities which are thought to indicate a graphitic zone. The high chargeabilities measured in the vicinity of Station 4550N have high associated resistivities, which may indicate a metallic sulfide source. The other areas

of anomalous IP effect are coincident with moderate to low resistivities and could be related to either graphite or metallic sulfides.

North Grid

Two induced polarization trends have been interpreted to be present in here and are illustrated on Dwg. No. IPP-2035M1.

Trend N-1

This anomalous trend extends from Line L-4 to Line L-2. Chargeability amplitudes are high while resistivity amplitudes are low. In almost all areas of this trend, depth to the top of the source appears to be within 25 meters of the surface, except in the case of L-3, where the depth of burial is somewhat greater. The source of the trend is probably a graphite rich region. This trend is open to the east, west and south.

Trend N-2

This anomalous trend extends from Line L-2 to Line L-3. Both the chargeability and the resistivity amplitudes are moderate in magnitude. The depth to the top of the source is felt to be in the order of 25 meters. The source may be metallic sulfides within volcanic rocks. On Line L-3, only the southern edge of the Trend is detected. This Trend is unbounded

to the east and west.

No magnetic data has been recorded on the North Grid.

## 4. CONCLUSIONS AND RECOMMENDATIONS

The magnetometer data has defined a trend in the West Zone which may be caused by the presence of magnetic pyrrhotite mineralization and/or mafic dykes.

It is recommended that a magnetometer survey be carried out to cover as much of the property as possible. If the recommended drilling proves encouraging, then further induced polarization and resistivity surveying would be warranted.

The IP and resistivity survey data has clearly defined areas of very polarizable material of low resistivity which are probably caused by graphite rich material. Other IP anomalies which are accompanied by higher apparent resistivity values have been selected as drill targets. The targeted anomalies are interpreted as being caused by metallic sulfides, although the possibility certainly exists that graphite is again the source.

Recommendations are made below for drill testing of some of the anomalous trends defined in this report. Dip and azimuth of drill holes are left to the discretion of the geologist due

to the inherent difficulties of dip determination when using induced polarization and resistivity data.

Geological and geophysical data should be taken into consideration when determining final target priority for drill testing.

Main Grid - West Zone

On Trend W-1, a drill hole, collared in such a way so as to intersect a point 35 meters below Station 2237.5N on Line 2100E is recommended.

On Trend W-2, a drill hole located so as to pass through a point 25 meters below Station 2287.5N on Line 2300E is recommended.

On Trend W-4, a drill hole collared so as to intersect a point 35 meters below Station 2700.0N on Line 2300E is recommended.

It is our understanding that bulldozer trenching has already been carried out in the vicinity of Trend W-5, and pyrrhotite, together with uninteresting gold values, was encountered. In spite of this, we feel drill testing the source of Trend W-5 at

depth should still be considered.

A drill hole positioned so as to intersect a point 25 meters below Station 2812.5N on Line 2300E is suggested due to coincidental IP and magnetic anomalies.

Also on Trend W-5, it is suggested that another drill hole be collared on Line 2100E at Station 2925N and drilled at -45° to the south, so as to intersect a combination of geochemical, magnetic and IP anomalies. This drill hole should be extended to approximately 175 meters downhole, if possible.

Main Grid - Lake Zone

On Trend L-2 a drill hole collared so as to intersect a point 25 meters below Station 3765N on Line 2900E is recommended.

Also on Trend L-2, a drill hole located in such a way so as to intersect a point 25 meters below Station 3875N, on Line 2900E is recommended to test the source of this target.

In the case of Line 3450N, no drilling is recommended at the present time. Additional IP and resistivity coverage would be required to establish the strike direction and shape of any

anomalous IP trends present before drill testing is considered.

North Grid

The main anomalous trend outlined by the IP data recorded on this Grid area is most likely caused by graphite, and no further work is recommended at this time. Additional IP and resistivity coverage is required to more fully define the source of Trend N-2, which is only outlined on one line.

PACIFIC GEOPHYSICAL LTD.

Martin St. Pierre per pste

MARTIN ST. PIERRE, B.Sc.
Geophysicist

Paul A. Cartwright

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

## 5. PESONNEL

Field Crew:

M. St. Pierre, 8621 Tulsy Crescent, East, Surrey, B.C.

Draftsman:

M. St. Pierre, 8621 Tulsy Crescent, East, Surrey, B.C.

Consultants:

M. St. Pierre, 8621 Tulsey Crescent East, Surrey, B.C.

P. A. Cartwright, 4238 West 11th Avenue, Vancouver, B.C.

PACIFIC GEOPHYSICAL LTD.

Paul A. Cartwright

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

## 6. STATEMENT OF COST

IP/Resistivity and Magnetic Surveys

Crew: M. St. Pierre

Period: September 18, 1989 to September 29,1989

| | | |
|---|---|---|
| 9½ | IP Operating Days @ $925.00 | $ 8,787.50 |
| 2 | Traveling Days @ $500.00 | 1,000.00 |
| ½ | Standby Day @ $500.00 | 250.00 |
| | Magnetometer Rental and Insurance | 3,916.80 |
| | Expenses (air fare, air freight, meals, etc.) | 2,097.33 |
| | Interpretation of data, Report Preparation and Data Plotting | 2,750.00 |
| | TOTAL | $18,801.63 |

PACIFIC GEOPHYSICAL LTD.

Paul A. Cartwright

PAUL A. CARTWRIGHT, P.Geoph.
Geophysicist

DATED: December 22, 1989

## 7. CERTIFICATE

I, Martin St. Pierre, of the City of Surrey, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 8621 Tulsy Crescent East, Surrey, British Columbia.

2. I am a graduate of McGill University, Montreal, Quebec with a B.Sc. Degree (1984).

3. I have been practicing my profession for five years.

4. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Mountain Province Mining Inc. or any affiliates.

5. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED at Vancouver, British Columbia this 22nd day of December 1989.

Martin St. Pierre

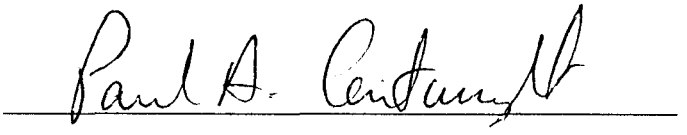
MARTIN ST. PIERRE

## 7. CERTIFICATE

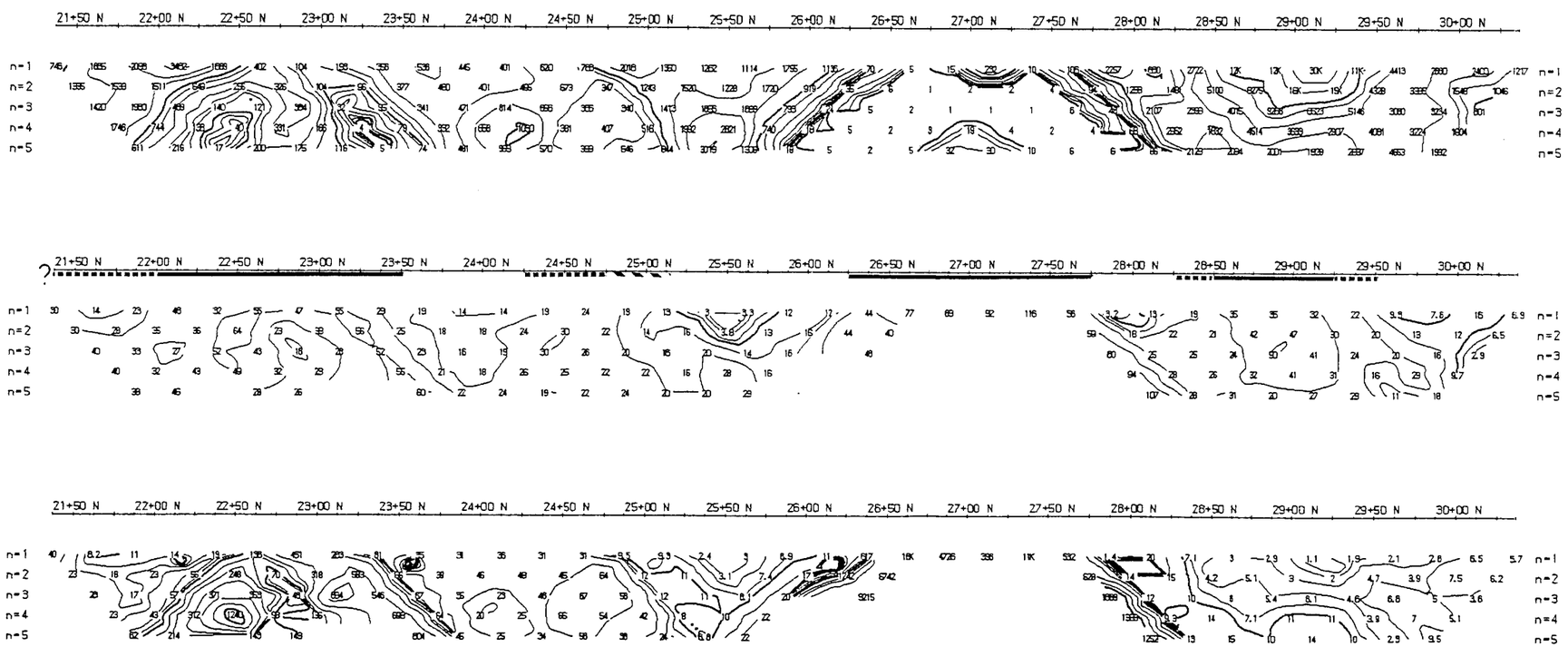
I, Paul A. Cartwright, of the City of Vancouver, Province of British Columbia, do hereby certify:

1. I am a geophysicist residing at 4234 West 11th Avenue, Vancouver, British Columbia.
2. I am a graduate of the University of British Columbia, with a B.Sc. Degree (1970).
3. I am a member of the Society of Exploration Geophysicists, the European Association of Exploration Geophysicists and the Canadian Society of Exploration Geophysicists.
4. I have been practicing my profession for 19 years.
5. I am a Professional Geophysicist licensed in the Province of Alberta.
6. I have no direct or indirect interest, nor do I expect to receive any interest, directly or indirectly, in the property or securities of Mountain Province Mining Inc. or any affiliates.
7. Permission is granted to use in whole or in part for assessment and qualification requirements but not for advertising purposes.

DATED at Vancouver, British Columbia this 22nd day of December 1989.

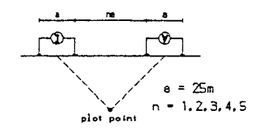


PAUL A. CARTWRIGHT, P.Geoph




Line 2000 E

Dipole-Dipole Array




Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

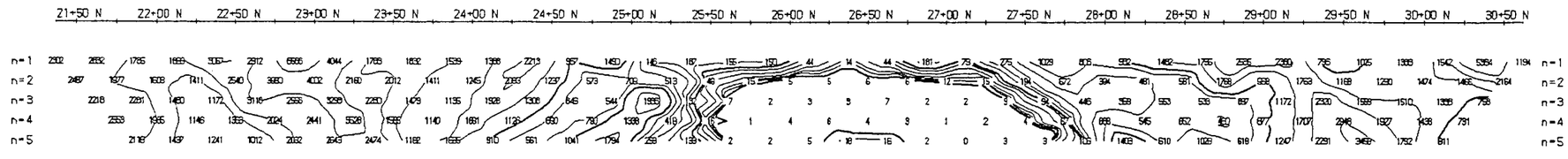
KETZA PROPERTY:WEST ZONE

Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P

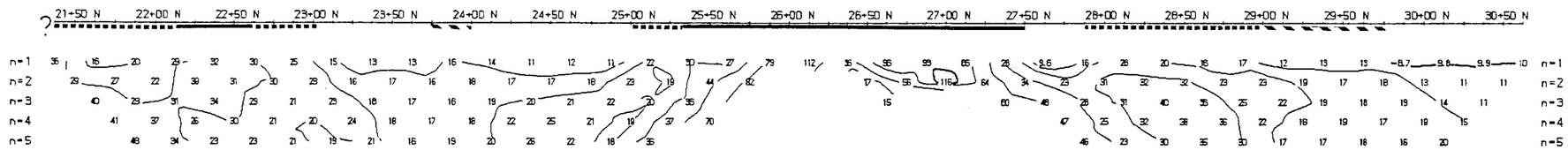
AMERLIN EXPLORATION SERVICES

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

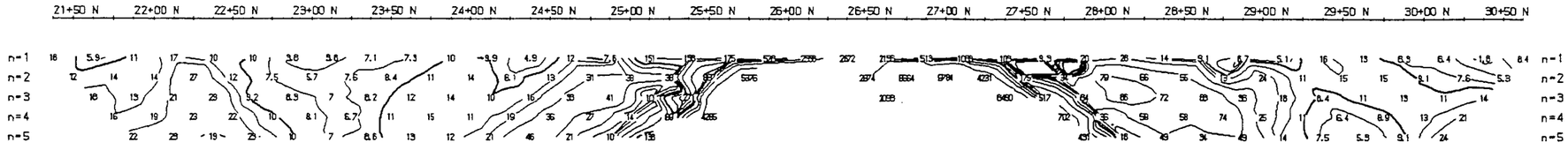
Figure 18.




RESISTIVITY
(ohm_m)



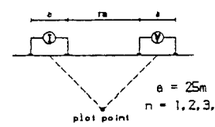

OBS. CHARGEABILITY
(msec)




METAL FACTOR
(1p/res * 10000)

# Line 2100 E

Dipole-Dipole Array




a = 25m
n = 1, 2, 3, 4, 5

Logarithmic Contours : 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

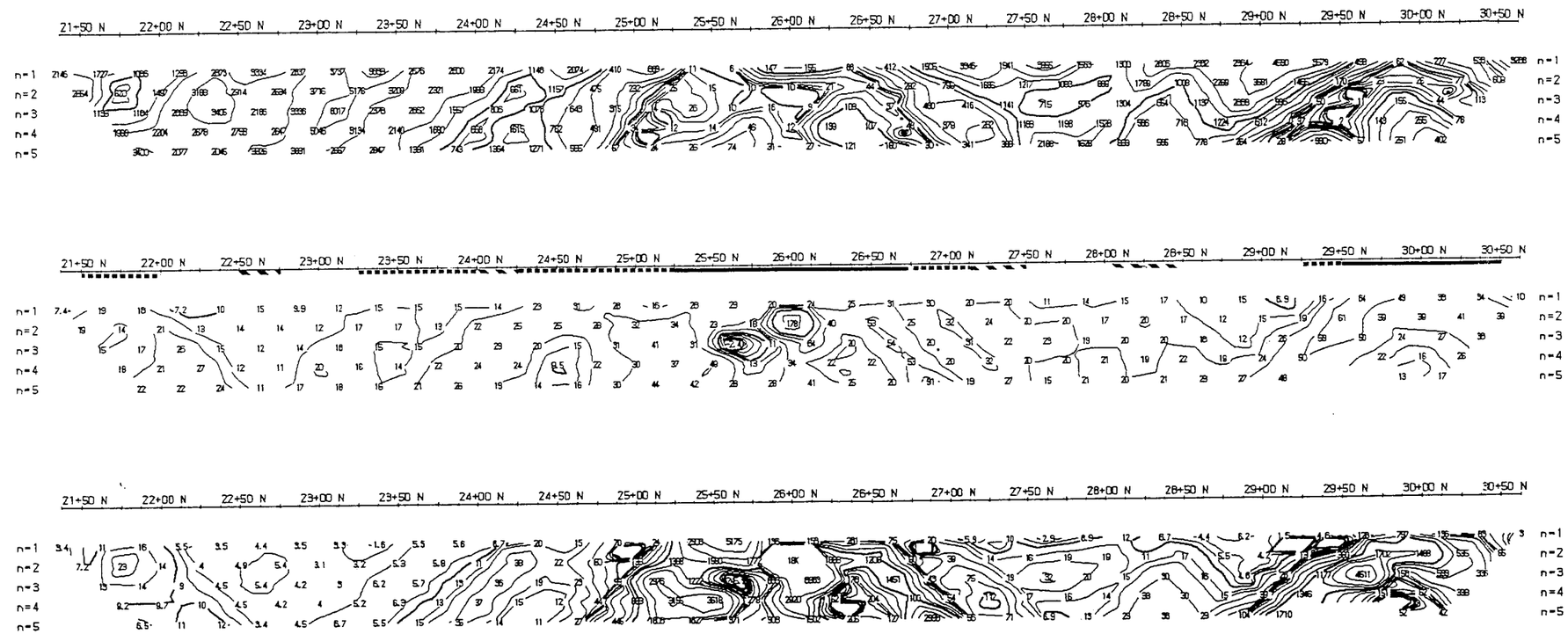
KETZA PROPERTY: WEST ZONE

Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

AMERLIN EXPLORATION SERVICES

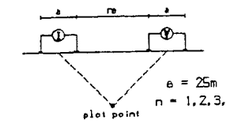
GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

Figure 19.




## Line 2200 E

Dipole-Dipole Array




Logarithmic Contours : 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

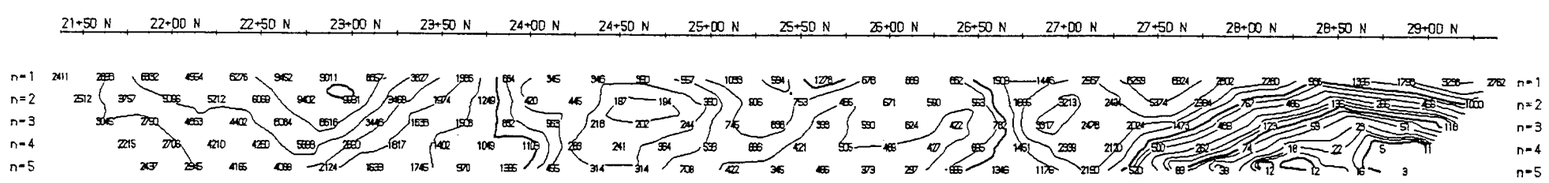
KETZA PROPERTY: WEST ZONE

Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

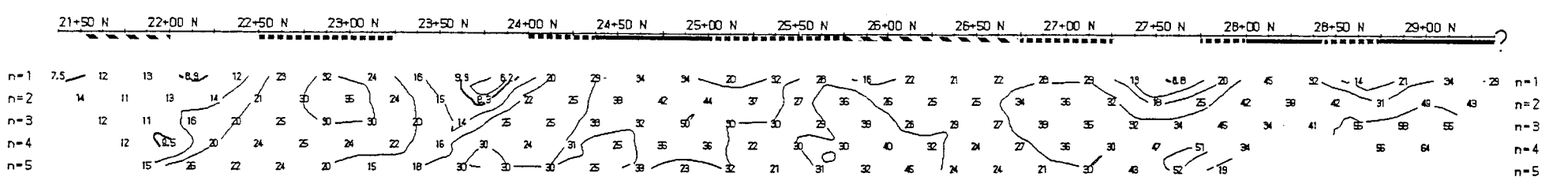
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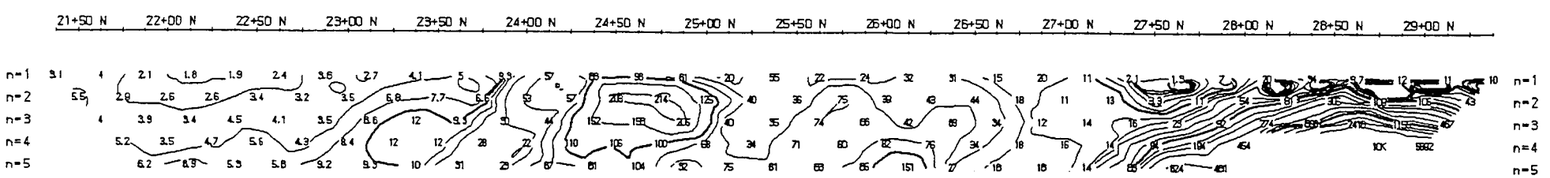
Figure 20.




RESISTIVITY
(ohm_m)



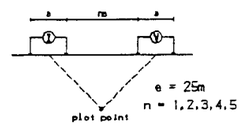

OBS. CHARGEABILITY
(msec)




METAL FACTOR
(ip/res * 1000)

## Line 2300 E

Dipole-Dipole Array




e = 25m
n = 1,2,3,4,5

Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

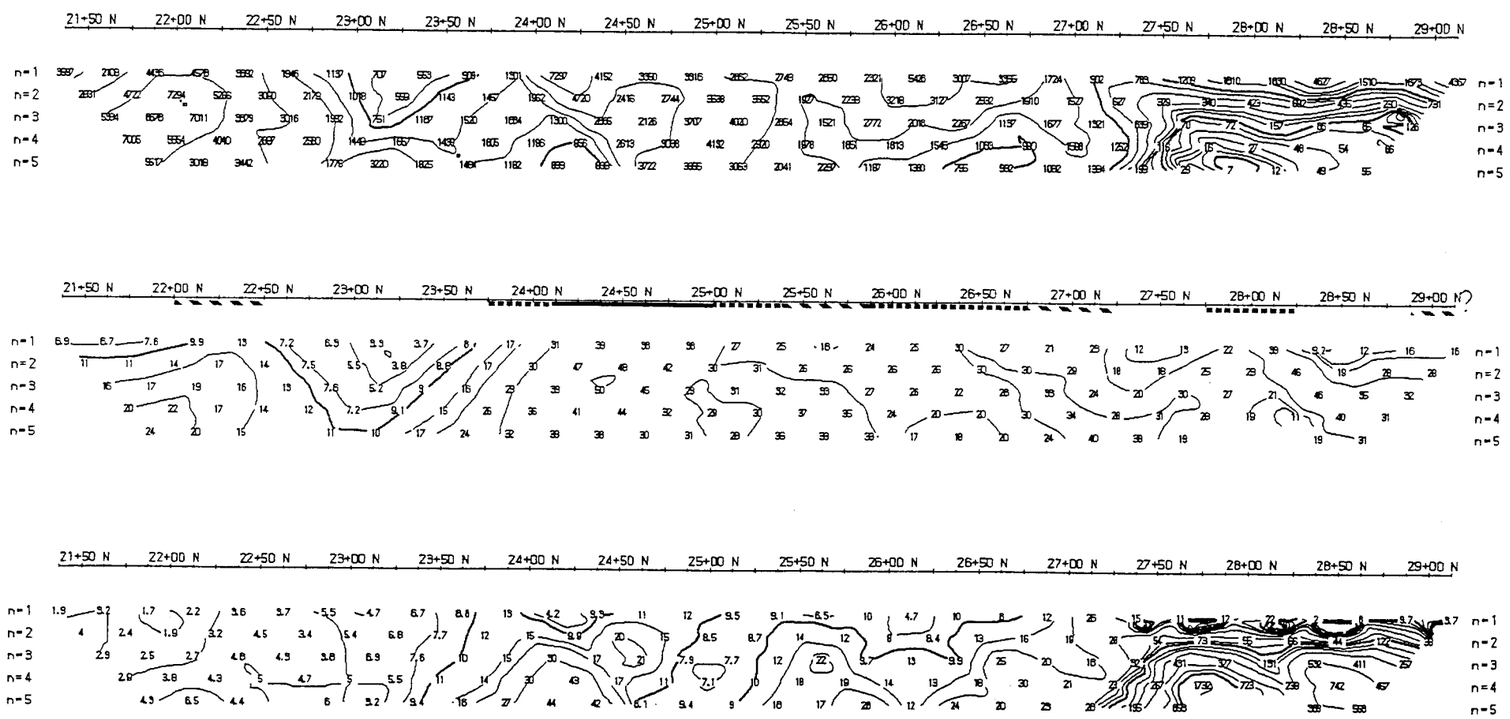
KETZA PROPERTY: WEST ZONE

Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P

AMERLIN EXPLORATION SERVICES

GEOSOFT (tm) Software for the Earth Sciences. Toronto, Canada

Figure 21.




## Line 2400 E

Dipole-Dipole Array

a na a

C V

e = 25m
n = 1, 2, 3, 4, 5

plot point

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

KETZA PROPERTY: WEST ZONE

Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

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Figure 22.

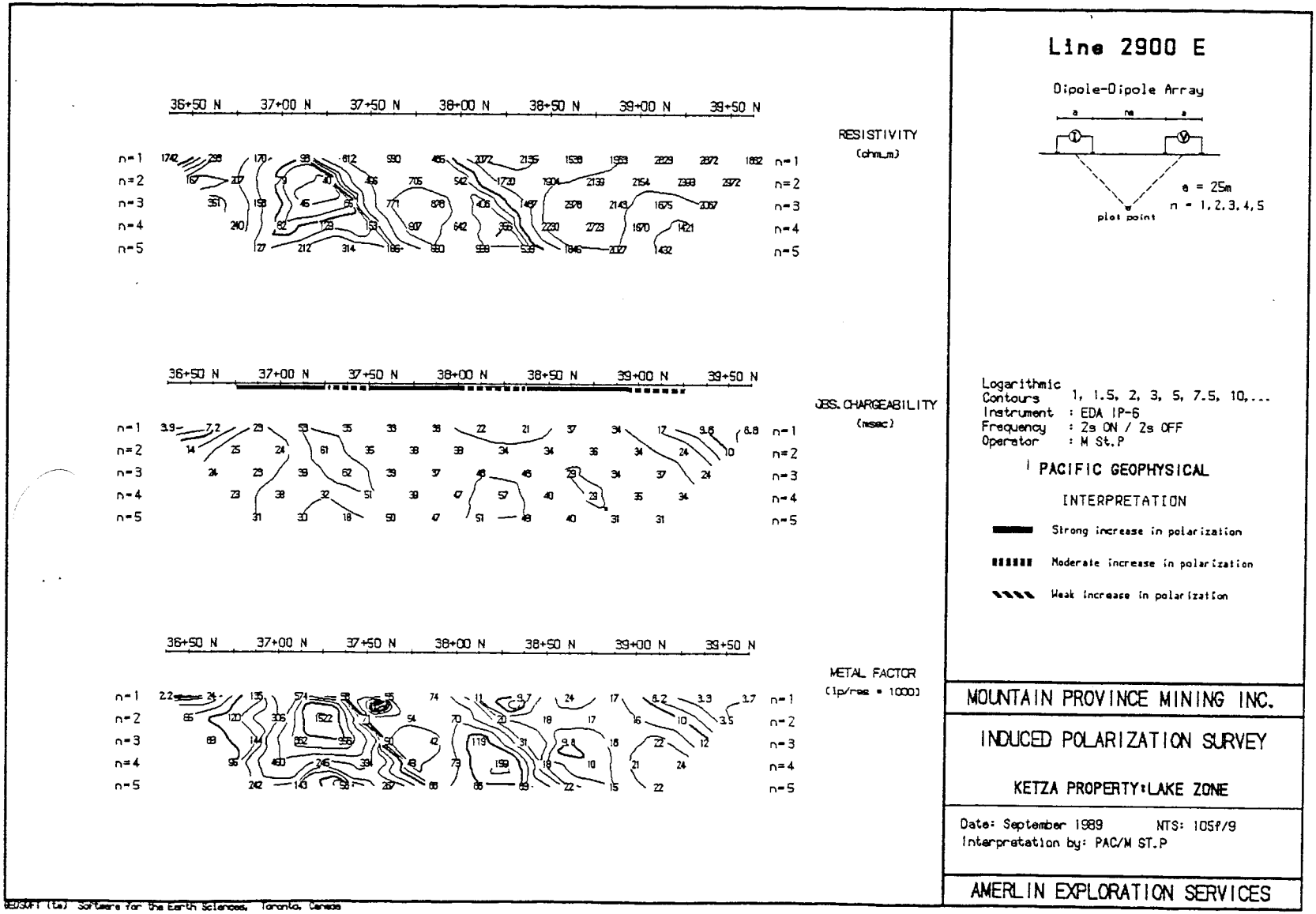
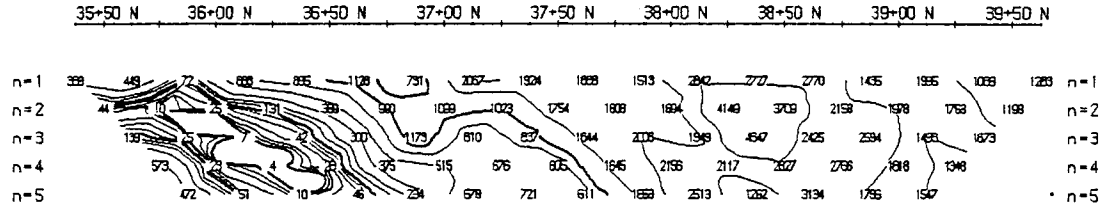
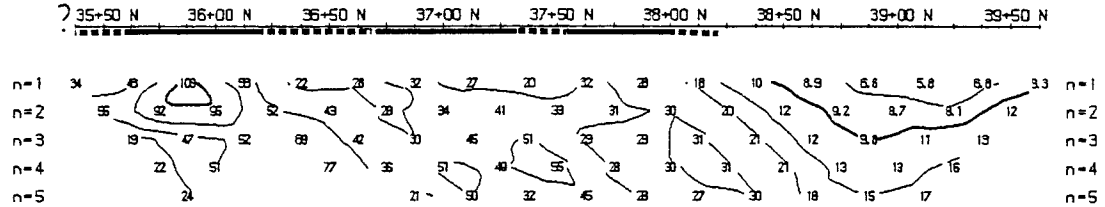

36+50 N
37+00 N
37+50 N
38+00 N
38+50 N
39+00 N
39+50 N
RESISTIVITY
(ohm_m)
IP. CHARGEABILITY
(msec)
METAL FACTOR
(1p/res * 1000)
n=1
n=2
n=3
n=4
n=5
Line 2900 E
Dipole-Dipole Array
a
na
a
C1
P2
a = 25m
n = 1, 2, 3, 4, 5
plot point
Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P
PACIFIC GEOPHYSICAL
INTERPRETATION
Strong increase in polarization
Moderate increase in polarization
Weak increase in polarization
MOUNTAIN PROVINCE MINING INC.
INDUCED POLARIZATION SURVEY
KETZA PROPERTY:LAKE ZONE
Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P
AMERLIN EXPLORATION SERVICES
GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

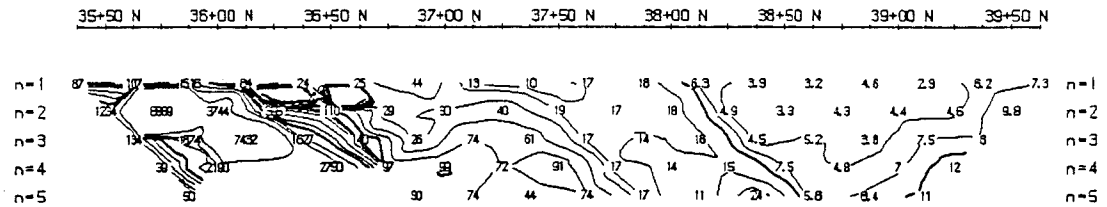
Figure 23.




RESISTIVITY
(ohm_m)




OBS. CHARGEABILITY
(msec)

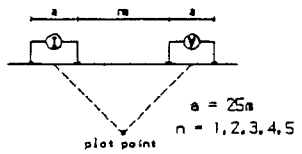



METAL FACTOR
(1p/rea * 10000)

BEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

## Line 3000 E

Dipole-Dipole Array




Logarithmic
Contours : 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

**PACIFIC GEOPHYSICAL**

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

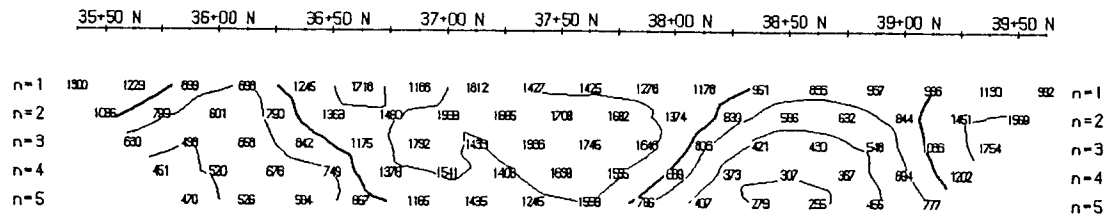
INDUCED POLARIZATION SURVEY

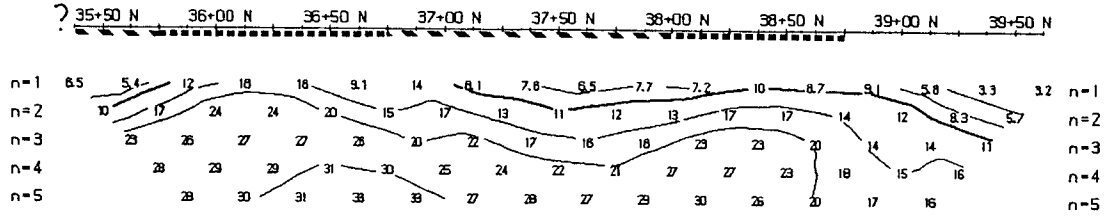
KETZA PROPERTY:LAKE ZONE

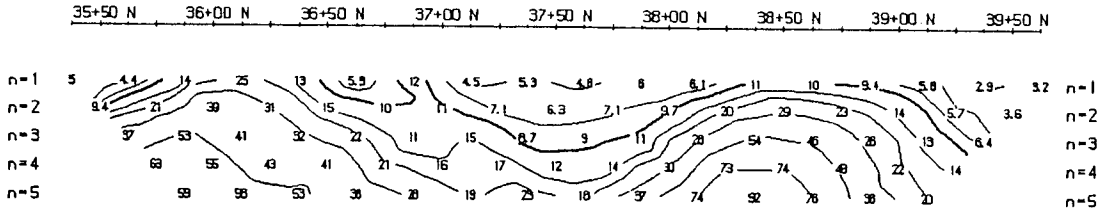
Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

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Figure 24.



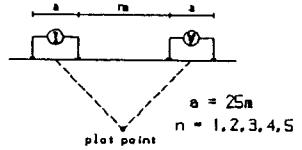




GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

## Line 3100 E

Dipole-Dipole Array




Logarithmic
Contours : 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

**PACIFIC GEOPHYSICAL**

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

**MOUNTAIN PROVINCE MINING INC.**

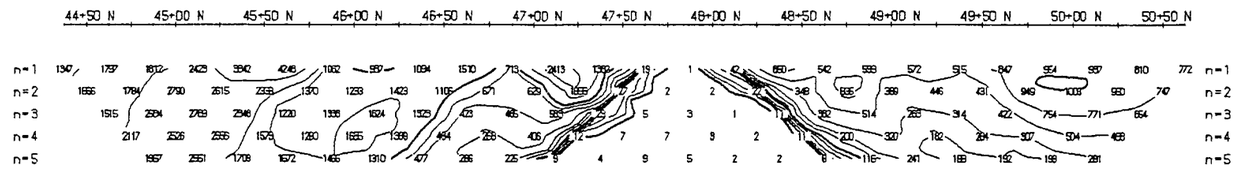
**INDUCED POLARIZATION SURVEY**

**KETZA PROPERTY:LAKE ZONE**

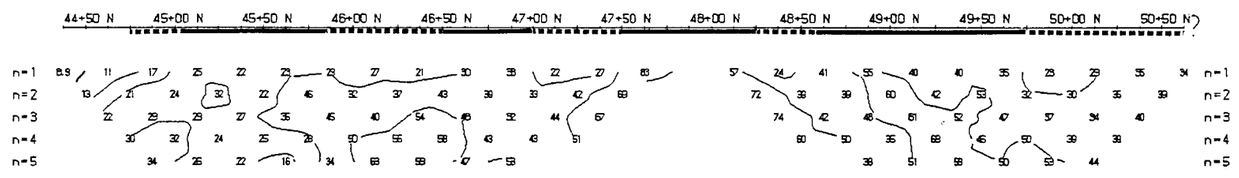
Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

**AMERLIN EXPLORATION SERVICES**

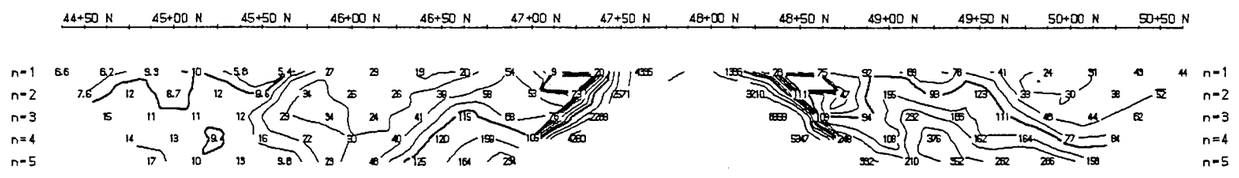
Figure 25.




RESISTIVITY
(ohm_m)




OBS. CHARGEABILITY
(msec)

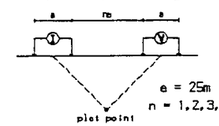



METAL FACTOR
(ip/res x 1000)

GEOSOFT (tm) Software for the Earth Sciences, Toronto, Canada

## Line 3450 E

Dipole-Dipole Array




Logarithmic Contours : 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

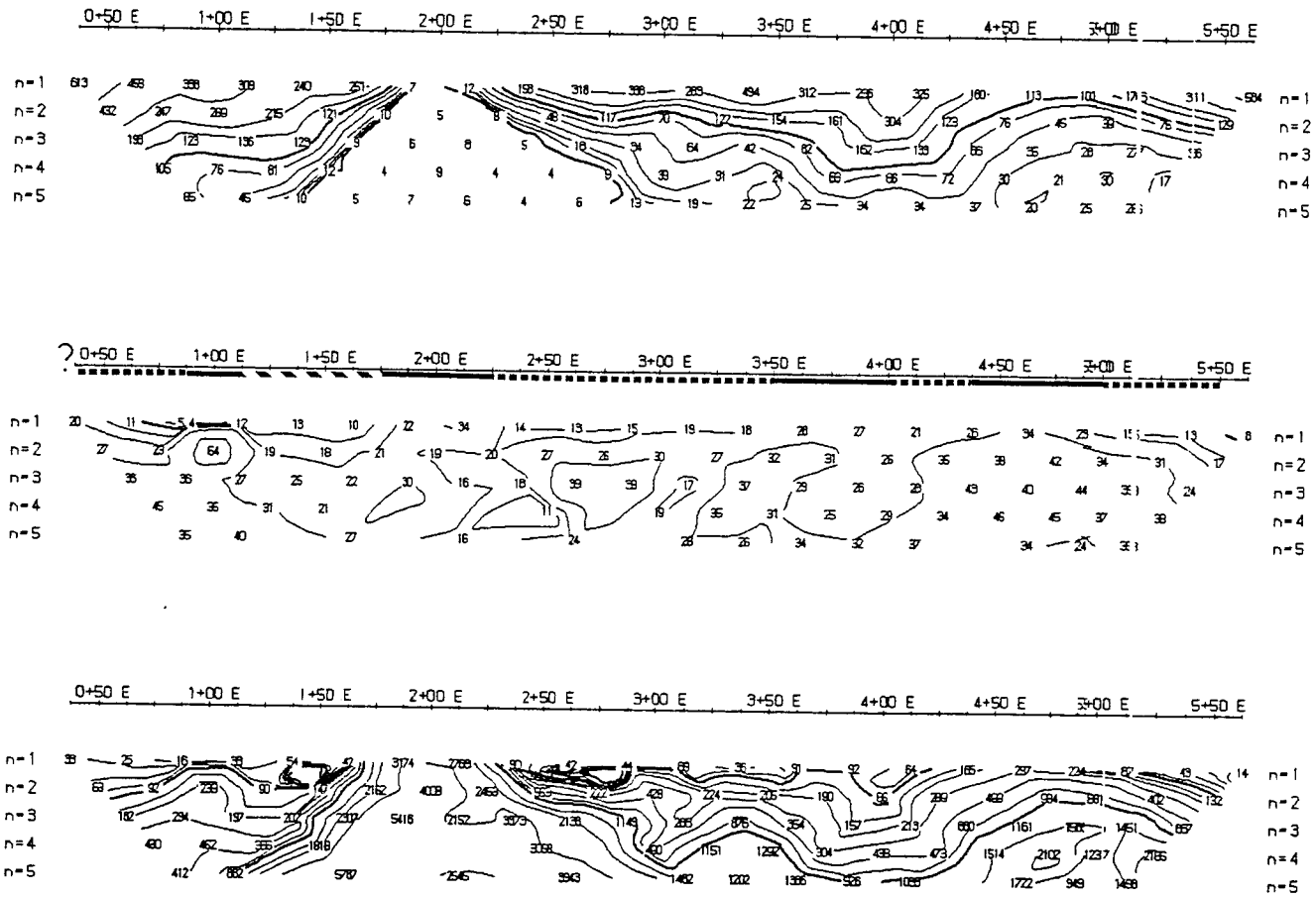
INDUCED POLARIZATION SURVEY

KETZA PROPERTY: LAKE ZONE

Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P

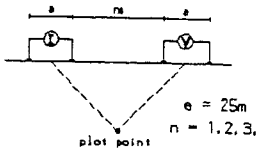
AMERLIN EXPLORATION SERVICES

Figure 26.




## Line 1

Dipole-Dipole Array




a = 25m
n = 1, 2, 3, 4, 5

Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

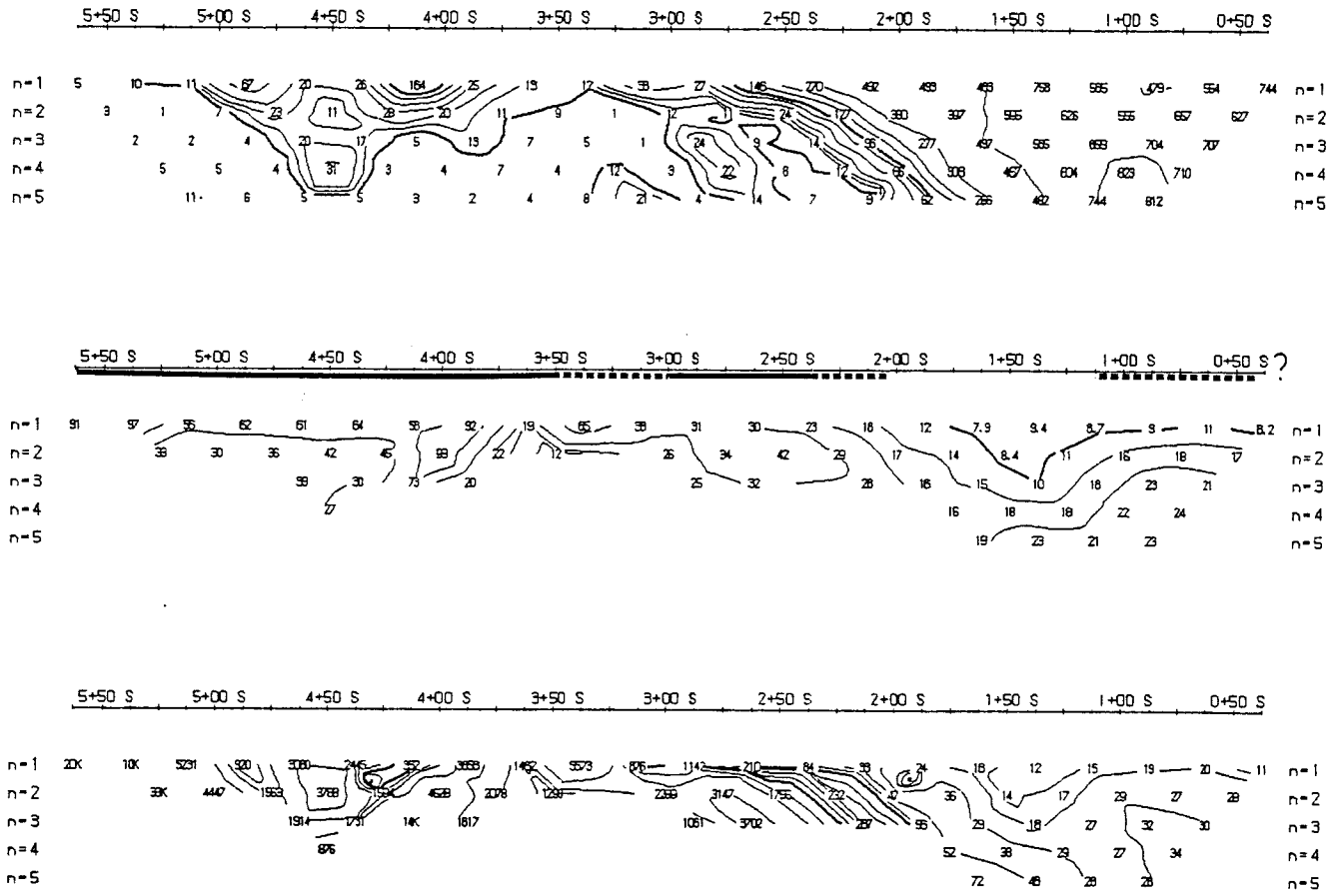
INDUCED POLARIZATION SURVEY

KETZA PROPERTY:NORTH ZONE GRID

Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P

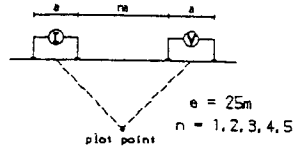
AMERLIN EXPLORATION SERVICES

Figure 27.




## Line 2

Dipole-Dipole Array




Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

**PACIFIC GEOPHYSICAL**

INTERPRETATION

- Strong increase in polarization
- Moderate increase in polarization
- Weak increase in polarization

**MOUNTAIN PROVINCE MINING INC.**

**INDUCED POLARIZATION SURVEY**

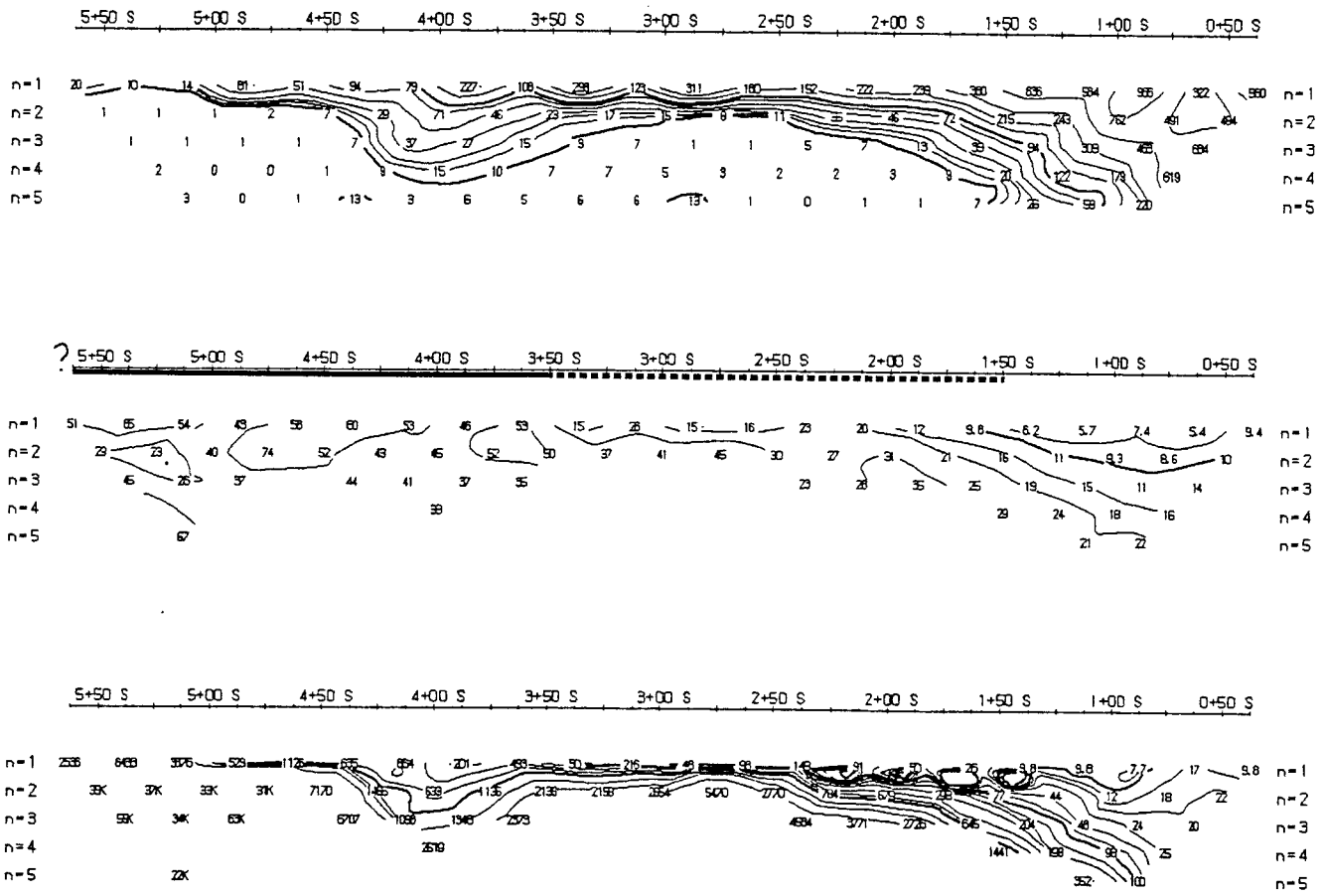
**KETZA PROPERTY:NORTH ZONE GRID**

Date: September 1989 NTS: 105F/9
Interpretation by: PAC/M ST.P

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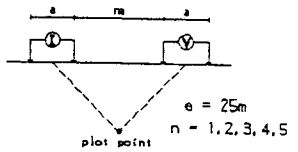
Software for the Earth Sciences, Toronto, Canada

Figure 28.




## Line 3

Dipole-Dipole Array




Logarithmic
Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

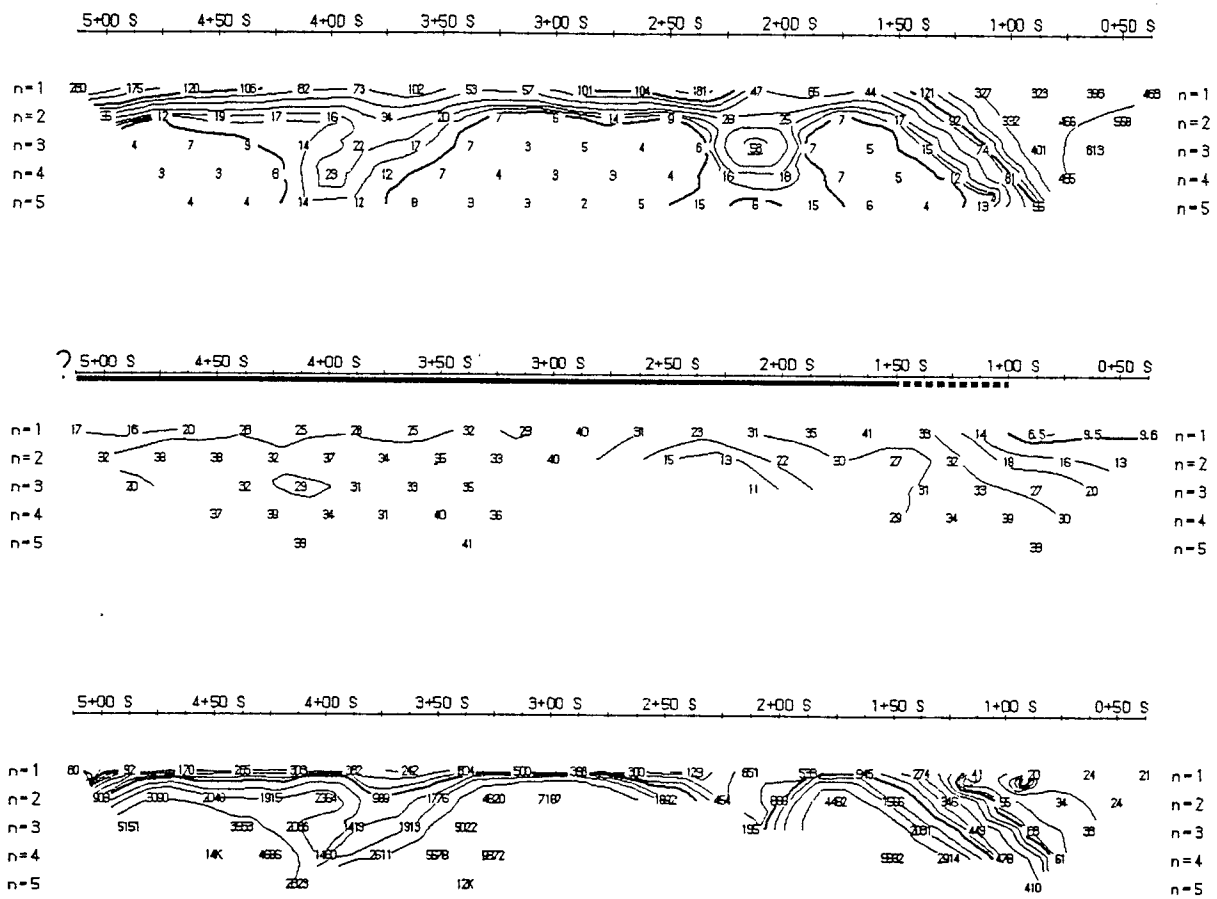
INDUCED POLARIZATION SURVEY

KETZA PROPERTY:NORTH ZONE GRID

Date: September 1989 NTS: 105P/9
Interpretation by: PAC/M ST.P

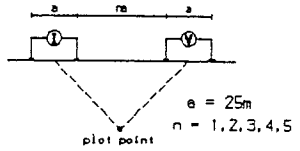
AMERLIN EXPLORATION SERVICES

Figure 29.




## Line 4

Dipole-Dipole Array




Logarithmic Contours 1, 1.5, 2, 3, 5, 7.5, 10,...
Instrument : EDA IP-6
Frequency : 2s ON / 2s OFF
Operator : M St.P

PACIFIC GEOPHYSICAL

INTERPRETATION

Strong increase in polarization

Moderate increase in polarization

Weak increase in polarization

MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION SURVEY

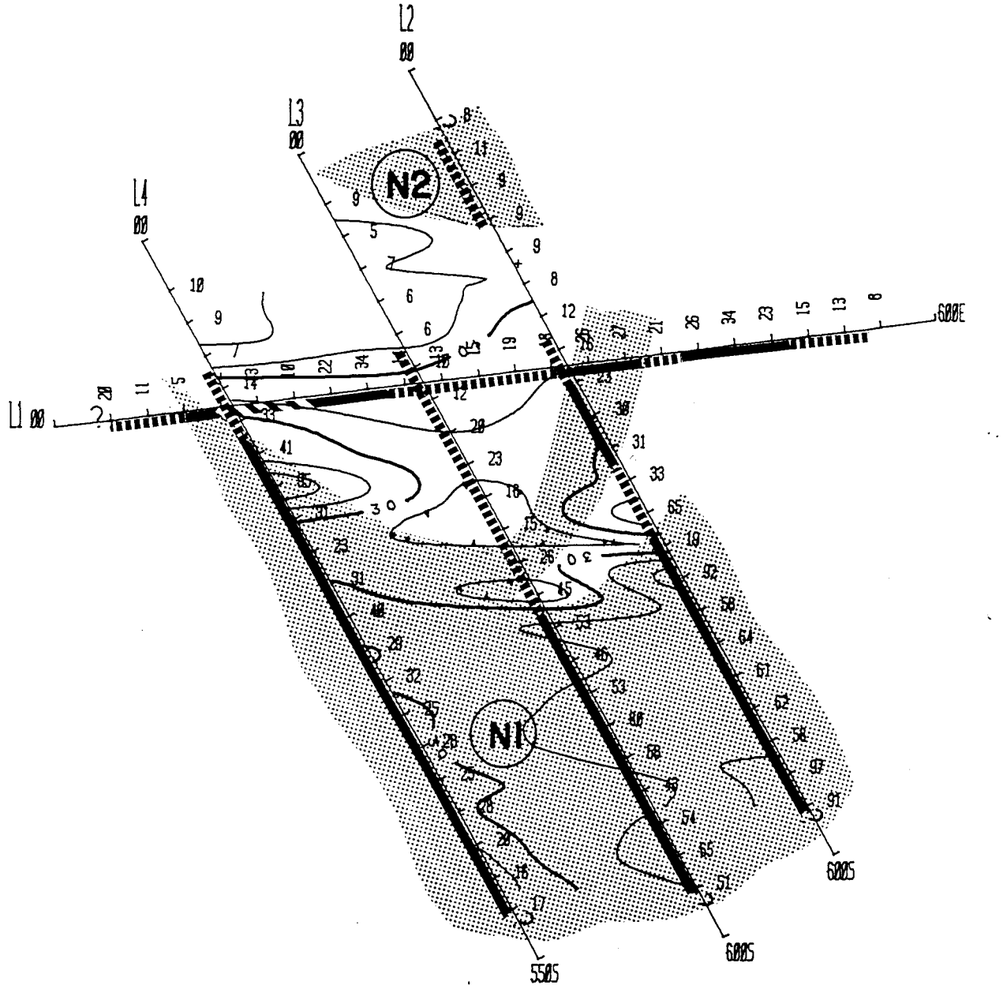
KETZA PROPERTY:NORTH ZONE GRID

Date: September 1989 NTS: 105f/9
Interpretation by: PAC/M ST.P

AMERLIN EXPLORATION SERVICES

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Figure 30.







Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6
IP Anomaly Class. :
Strong
Moderate
Weak
Contour Int: 7.5,10,15,20msec.eto (D-D,x=25m,n=1)

Near Surface Outline Of Anomalous IP Zone:

80m 40m 0m 80m 160m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

# MOUNTAIN PROVINCE MINING INC.

## INDUCED POLARIZATION SURVEY

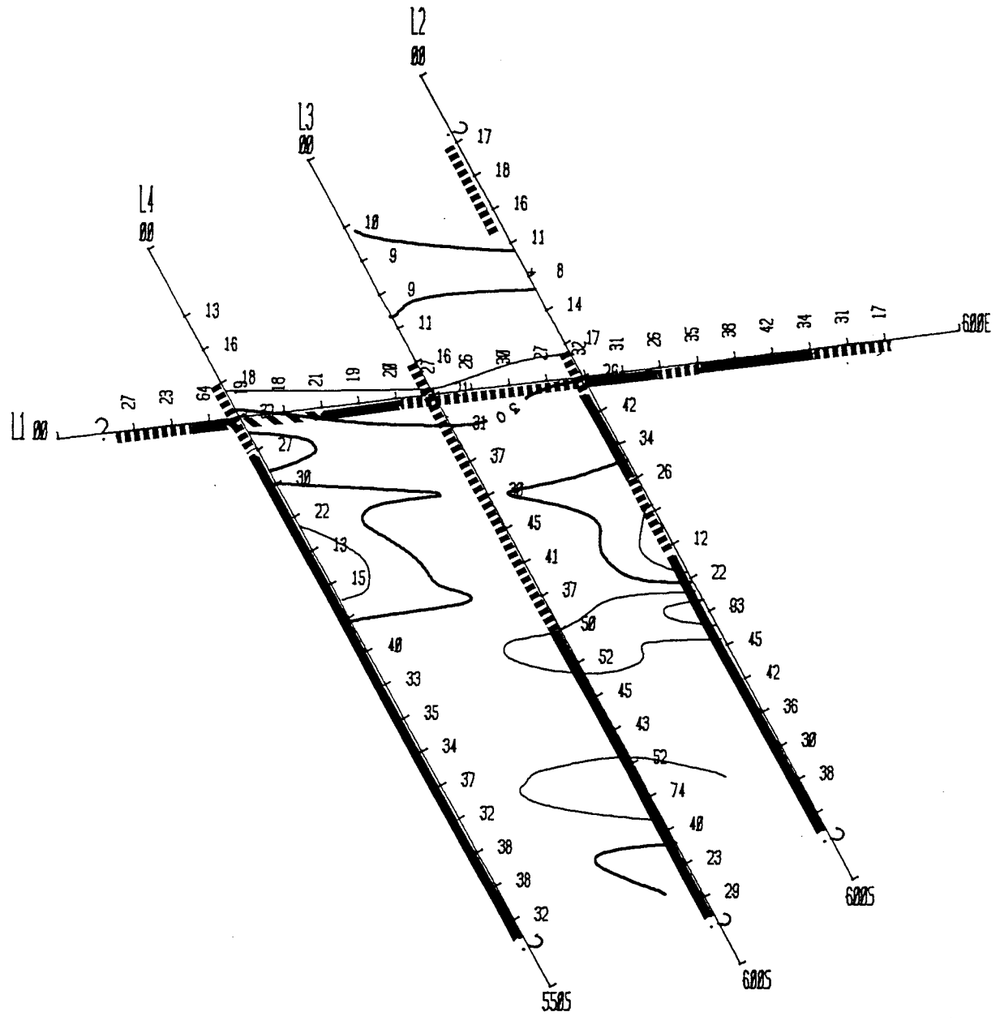
( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:EVE CLAIMS,WATSON LK. M.D.YUKON

**NORTH ZONE - Figure 31**

| | |
|---|---|
| SCALE = 1: 4000 | DATE :SEPT/OCT 89 |
| SURVEY BY : M.ST.P. | NTS : 105F/9 |
| FILE: MIP1KTN | Dwg.No.IPP-2035M1 |

Amerlin Exploration Services Ltd.







Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6
IP Anomaly Class. :
Strong
Moderate
Weak
Contour Int: 7.5,10,15,20meec.etc (D-D,x=25m,n=2)

80m 40m 0m 80m 160m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

*MOUNTAIN PROVINCE MINING INC.*

# INDUCED POLARIZATION SURVEY

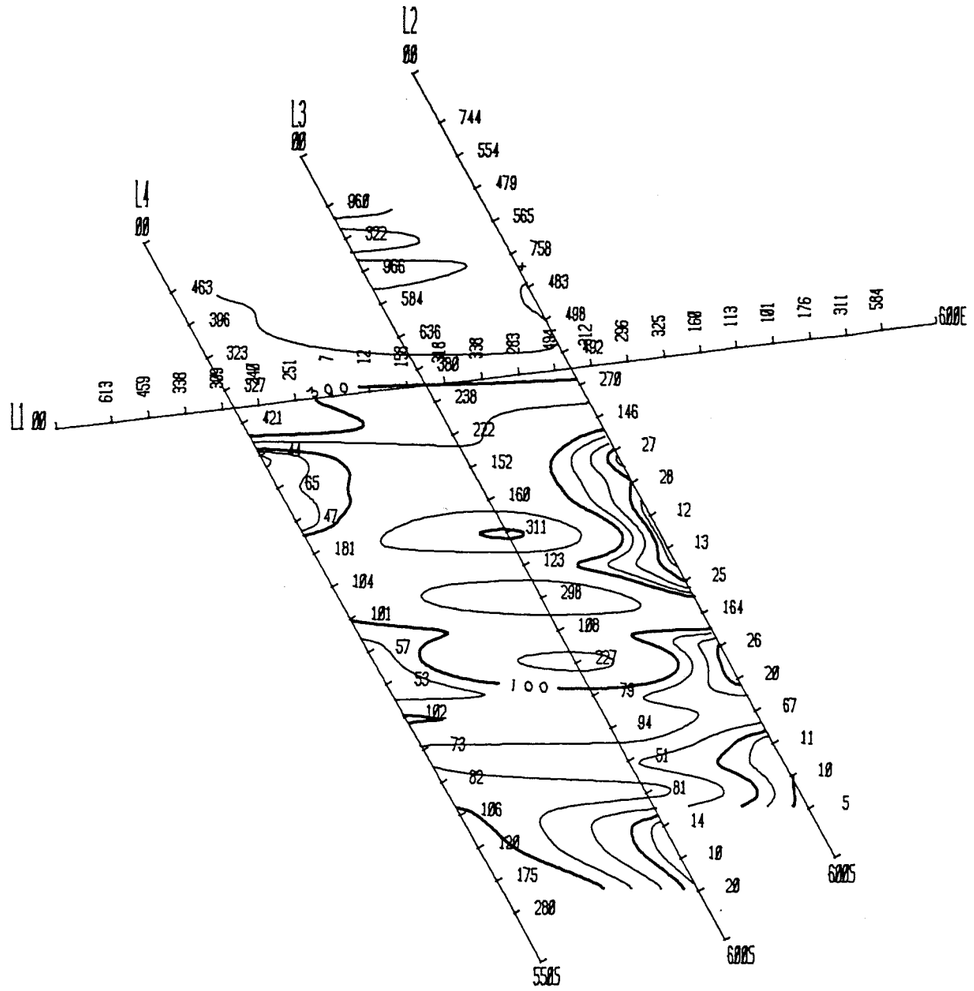
( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:EVE CLAIMS,WATSON LK. M.D.YUKON

**NORTH ZONE – Figure 32**

| | |
|---|---|
| SCALE = 1: 4000 | DATE :SEPT/OCT 89 |
| SURVEY BY : M.ST.P. | NTS : 105F/9 |
| FILE: MIP2KTN | Dwg.No.IPP-2035M2 |

Amerlin Exploration Services Ltd.










To Accompany Report by:
M.St.Pierre and P.A.Cartwright

Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6

Contour Int: 7.5,10,15,200hm-m.eto(D-D,x=25m,n=1)

*MOUNTAIN PROVINCE MINING INC.*

# RESISTIVITY SURVEY

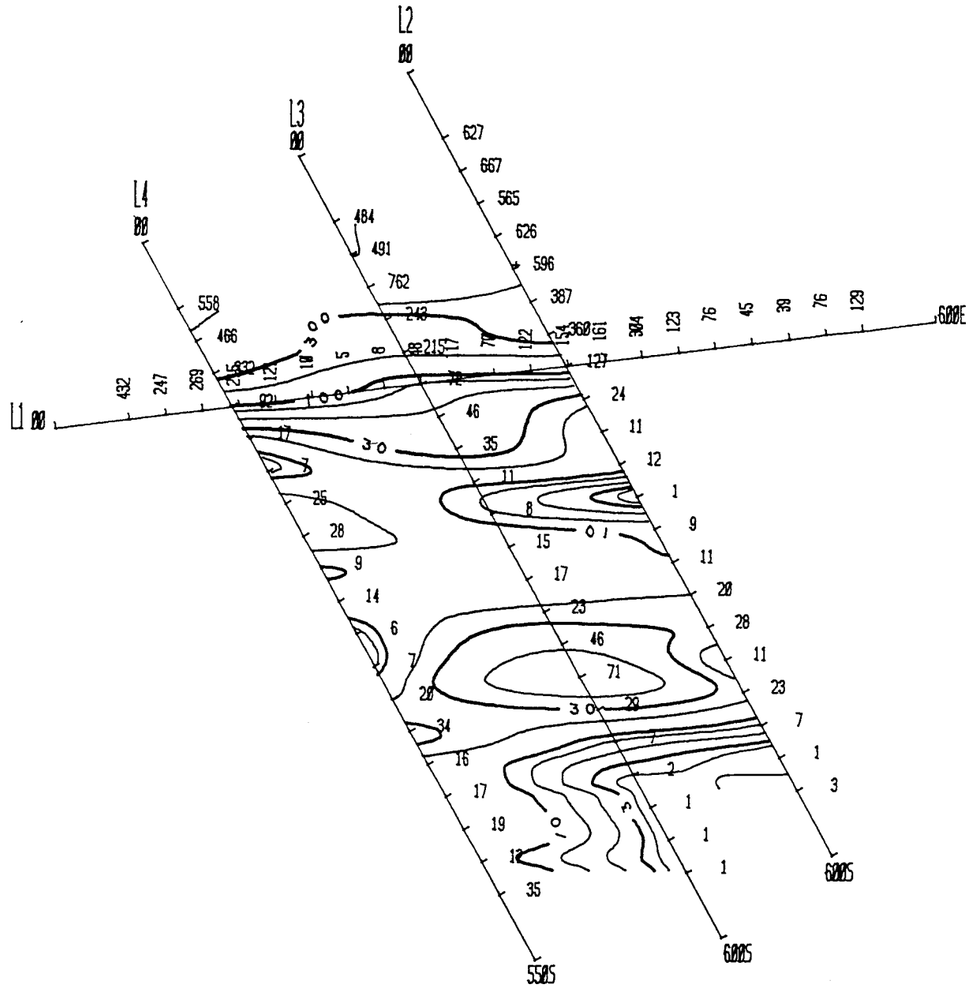
( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:EVE CLAIMS,WATSON LK. M.D.YUKON

**NORTH ZONE – Figure 33**

| | |
|---|---|
| SCALE = 1: 4000 | DATE :SEPT/OCT 89 |
| SURVEY BY : M.ST.P. | NTS : 105F/9 |
| FILE: MR01KTN | Dwg.No.IPP-2035R1 |

Amerlin Exploration Servicee Ltd.







Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6

Contour Int: 7.5,10,15,20Ohm-m.eto(D-D,x=25m,n=2)




To Accompany Report by:
M.St.Pierre and P.A.Cartwright

*MOUNTAIN PROVINCE MINING INC.*

# RESISTIVITY SURVEY

( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:EVE CLAIMS,WATSON LK. M.D.YUKON

**NORTH ZONE – Figure 34**

SCALE = 1: 4000 DATE :SEPT/OCT 89

SURVEY BY : M.ST.P. NTS : 105F/9

FILE: MR02KTN Dwg.No.IPP-2035R2

Amerlin Exploration Services Ltd.

# APPENDIX C

# PERSONNEL

## APPENDIX C - PERSONNEL

| | |
|---|---|
| Carl G. Verley<br>8191 Osler Street<br>Vancouver, B.C. | Project Supervisor |
| Stephen P. Williams<br>1191 W. 40th Avenue<br>Vancouver, B.C. | Geologist |
| Martin St. Pierre<br>8621 Tulsy Cresent East<br>Surrey, B.C. | Geophysicist |
| Gregory Sinitsin<br>13325 - 76th Avenue<br>Surrey, B.C. | Geophysical Technician |
| Jim Scarf<br>C/O Grant Stewart Construction Ltd.<br>Watson Lake, Yukon | Bulldozer Operator |
| Tony<br>C/O Grant Stewart Construction Ltd.<br>Watson Lake, Yukon | Excavator Operator |
| Norman Winther<br>C/O General Delivery<br>Ross River, Yukon | Field Assistant |
| Lonnie Hanson<br>C/O General Delivery<br>Ross River, Yukon | Field Assistant |
| Doug Campbell<br>C/O General Delivery<br>Ross River, Yukon | Cook |

# APPENDIX D

# WRITER'S CERTIFICATE

AMERLIN EXPLORATION SERVICES LTD.
812 - 525 Seymour Street, Vancouver, B.C. V6B 3H7 (604) 689-1868 Bus.

## WRITER'S CERTIFICATE

I, Carl G. Verley of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 8191 Osler Street, Vancouver B.C.

2. I am a graduate of the University of British Columbia, B.Sc. in 1974, and have practised my profession since that time.

3. I am a Fellow of the Geological Association of Canada.

4. I am the author of this report which is based on the work program described herein conducted on the EVE, WHITE and WHYTE claims during the period September 8 to October 22, 1989.

Amerlin Exploration Services Ltd.

Carl G. Verley

Carl G. Verley, F.G.A.C.

February 2, 1990.
Vancouver, B.C.

EVE I-150 CLAIMS

WHITE I-123 CLAIMS

CANAMAX RESOURCES INC.

STAKED

NORTH ZONE

SOIL ANOMALY

Anomalous Pb in soils/talus

LAKE ZONE

EAST ZONE

WEST ZONE

MAIN GRID AREA

EAST GRID AREA

KETZA UPLIFT

MINE SITE

MILL SITE

PEEL FAULT

Slide Lake

Shrimp Lake

Tarn Lake

Cache Creek

White Creek

FLINT

PENGUIN

TARN

PEEL

RIDGE

BREAK

NIOBIUM
ZIRCON
RARE EARTHS

Mva

uDMs

SDdq

uEOsl

lEc

PlEsq

My

Mc

4000 N

3100 N

2300 N

3100 E

1900 E

132°25'

132°15'

61°35'

61°30'

## LEGEND

### LITHOLOGIES

MISSISSIPPIAN

- Mc — Carbonatite
- My — Syenite
- Mva — Volcanics

UPPER DEVONIAN-MISSISSIPPIAN

- uDMs — Shale

SILURIAN-DEVONIAN

- SDdq — Carbonates

UPPER CAMBRIAN-ORDOVICIAN

- uEOsl — Limestone, slate

LOWER CAMBRIAN

- lEc — Carbonates

PRECAMBRIAN (?)-LOWER CAMBRIAN

- PlEsq — Quartzite and phyllite

### SYMBOLS

SOIL ANOMALIES-WHITE CLAIMS

- Gold (>10 ppb)
- Silver (>2.7 ppm)

- Canamax's sulphide and oxide chimneys and mantos respectively.
- Magnetic high
- Lithologic contact
- Fault: defined, inferred
- Thrust fault: defined, inferred
  Teeth on upper plate.
- Syncline axis
- Claim boundary
- Road

NOTES :

Geology outside of claim blocks adapted from M.S. Cathro, 1988.

Topography from Dept. of Energy, Mines and Resources: 1 : 50,000 scale map (105F/9) and 1 : 250,000 scale map (105F).

Contour interval : 100 metres.

Property boundaries are approximate.

299
105 F 8,9
092820

MOUNTAIN PROVINCE MINING INC.

# COMPILATION MAP

## EVE & WHITE CLAIM GROUPS

KETZA RIVER AREA 105F-8,9
WATSON LAKE MINING DISTRICT, YUKON

1 : 25,000

500 0 500 1000 1500 m

Scale in metres

BY

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

JANUARY 1990

PLATE I

LAKE ZONE

EAST ZONE

WEST ZONE

Camp

Shrimp Lake

N

## LEGEND

### LITHOLOGIES

MISSISSIPPIAN
- Md — Dyke rocks
- Mc — Carbonatite, Mcbx carbonatite breccia
- My — Syenite
- Mvc — Volcanics, pyroclastics

UPPER DEVONIAN-MISSISSIPPIAN
- uDMs — Shale

SILURIAN-DEVONIAN
- SDd — Carbonates

SILURIAN
- Sq — Quartzite

UPPER CAMBRIAN-ORDOVICIAN
- uЄOsl — Limestone, slate

LOWER CAMBRIAN
- lЄ4 — Green phyllitic mudstone
- lЄ3 — Limestone, fossiliferous lЄd-dolomitized, lЄu-undivided
- lЄ2 — Calcareous mudstone
- lЄ1 — Black laminated limestone

PRECAMBRIAN(?) - LOWER CAMBRIAN
- PlЄsq — Quartzite and phyllite

### SYMBOLS

- Outcrop distribution
- Bedding
- Foliation
- Fractures/joints
- Fold axis cleavage
- Fold axis lineation
- Axis of overturned fold
- Lithologic contact, definite, inferred
- Vein, quartz unless otherwise noted
- Fault, definite, inferred
- Syncline axis
- Limonitic-sideritic occurrence
- Structural cross-section Refer to figure 4
- 1989 geophysical test lines
- Access road
- Trench
- Magnetic highs

### ANOMALOUS 1988 SOIL GEOCHEMISTRY

- Gold (>10 ppb)
- Silver (>2.7 ppm)
- Arsenic (>320 ppm)
- Pb — Lead (>192 ppm)
- Cu — Copper (>329 ppm)
- Zn — Zinc (>289 ppm)

200
105F 89

MOUNTAIN PROVINCE MINING INC.

# COMPILATION MAP

## MAIN GRID - WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9
WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1:5,000

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

PLATE 2

092520

## EXPLANATION

Au ● As — SOIL SAMPLE SITE WITH GOLD IN ppb, ARSENIC IN ppm.

| | GOLD (ppb) | ARSENIC (ppm) |
|---|---|---|
| BACKGROUND | 1 - 6 | 1 - 184 |
| POSSIBLY ANOMALOUS | 7 - 10 | 185 - 320 |
| ANOMALOUS | 11 - 44 | 321 - 1389 |
| STRONGLY ANOMALOUS | 45+ | 1390+ |

NOTE:

NS NO SAMPLES.

REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

(30) 105F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY GOLD AND ARSENIC

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9

WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812 - 525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

PLATE 3

082220

## EXPLANATION

Ag o Pb — SOIL SAMPLE SITE WITH SILVER IN ppm, LEAD IN ppm.

| | SILVER (ppm) | LEAD (ppm) |
|---|---|---|
| BACKGROUND | 0.1-1.6 | 2-96 |
| POSSIBLY ANOMALOUS | 1.7-2.7 | 97-192 |
| ANOMALOUS | 2.8-9.8 | 193-1104 |
| STRONGLY ANOMALOUS | 9.9+ | 1105+ |

NOTE:
SILVER VALUES LESS THAN 0.2ppm NOT PLOTTED.
NS NO SAMPLE.
REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

(302) 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY SILVER AND LEAD

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9
WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres
Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

PLATE 4

092820

## EXPLANATION

Cu o Zn — SOIL SAMPLE SITE WITH COPPER IN ppm, ZINC IN ppm.

| | COPPER (ppm) | ZINC (ppm) |
|---|---|---|
| BACKGROUND | 1-153 | 0-194 |
| POSSIBLY ANOMALOUS | 154-329 | 195-289 |
| ANOMALOUS | 330-1599 | 290-639 |
| STRONGLY ANOMALOUS | 1600+ | 640+ |

NOTE:
NS NO SAMPLE

REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

303 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY COPPER AND ZINC

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9
WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

092c20

PLATE 5




[ ] Extent of I.P. Survey Coverage

Trench

Outline of Anomalous I.P. Zone :

To Accompany Report By

M. St. Pierre and P.A. Cartwright

Plotted By PACIFIC GEOPHYSICAL

| | |
|---|---|
| Instruments | : EDA OMNI4, EDA IP-6 |
| Field | : TOTAL |
| Datum | : 57,500 nT |
| Contour Interval | : 20.0 nT |
| I.P. Anomaly Class | : |
| Strong | |
| Moderate | |
| Weak | |

100m 50m 0m 100m 200m

304

PLATE 6

# MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION INTERPRETATION
MAGNETIC CONTOURS
KETZA PROJECT : WHITE CLAIMS, WATSON LK. M.D. YUKON
BASELINE AZIMUTH : 90 Deg.

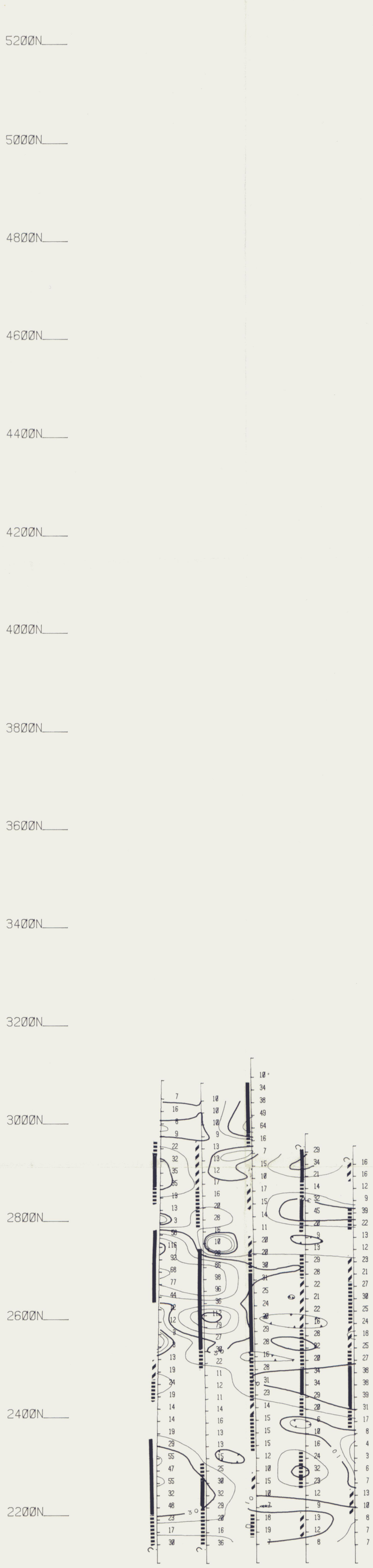
SCALE = 1 : 5000 DATE : OCT 1989
SURVEY BY : SW/GS NTS : 105F/9
FILE : Mketzal.ext

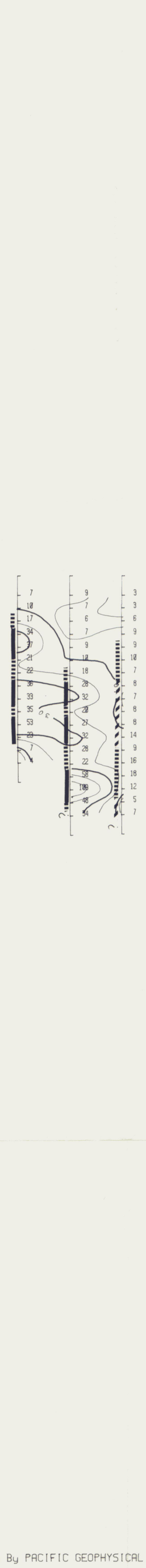
Amerlin Exploration Services Ltd.

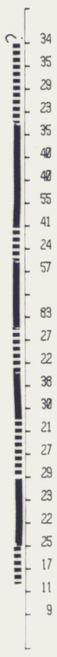
0220

2000E 2100E 2200E 2300E 2400E 2900E 3000E 3100E 3450E

5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N







Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6
IP Anomaly Class :
Strong
Moderate
Weak
Array :Dipole-Dipole.x=25m,n=1
Contour Interval:7.5.10.20 etc. msec

100m 50m 0m 100m 200m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

PLATE 7

# MOUNTAIN PROVINCE MINING INC.

## INDUCED POLARIZATION SURVEY

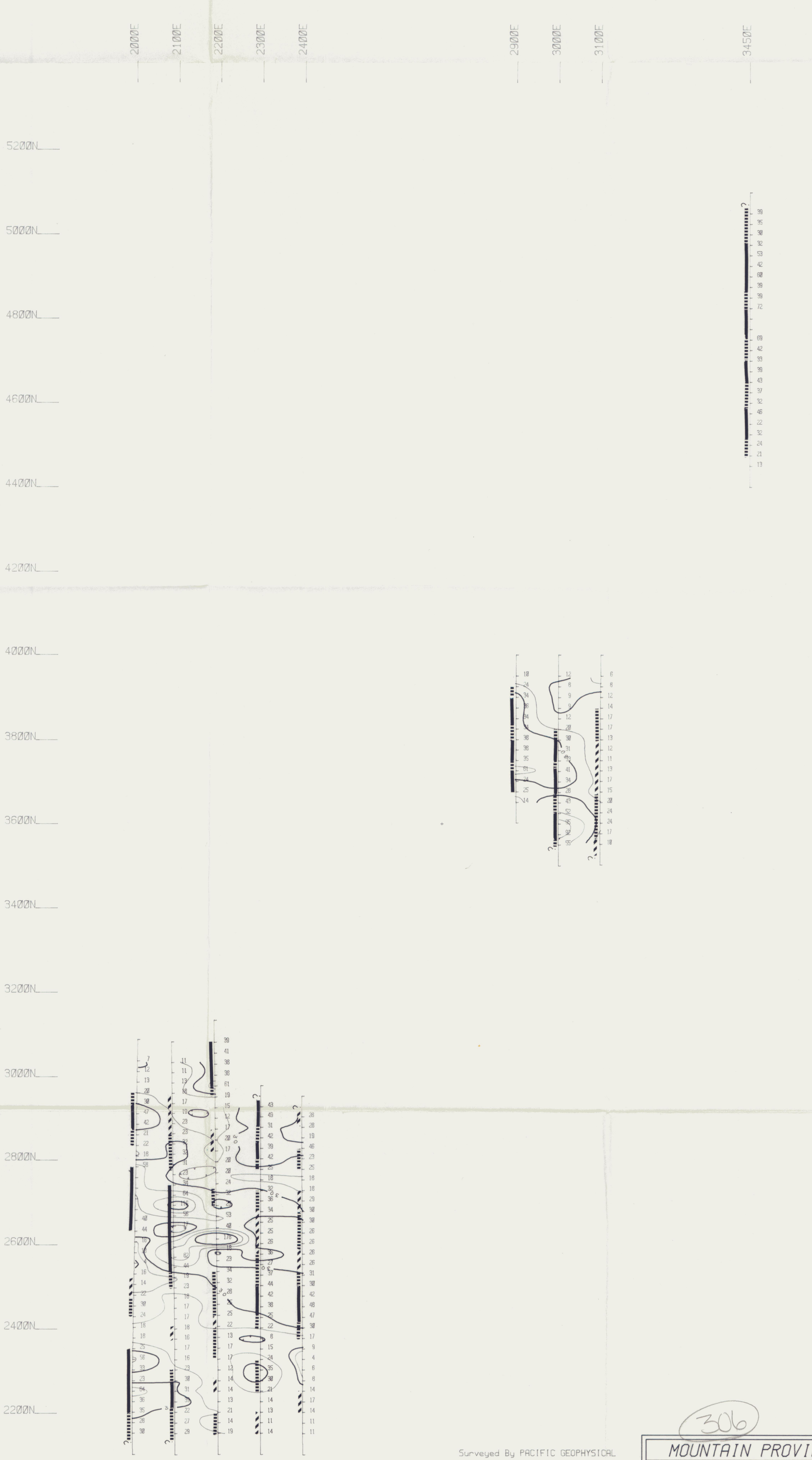
( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89
SURVEY BY : M.ST.P. NTS : 105F/9
FILE: MIP1KT Dwg.No.IPP-3024M1

Amerlin Exploration Services Ltd.

092820




Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6
IP Anomaly Class :
Strong
Moderate
Weak

Array :Dipole-Dipole.x=25m.n=2
Contour Interval:7.5.10.20 etc. msec

100m 50m 0m 100m 200m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

D2230

306

PLATE 8

# MOUNTAIN PROVINCE MINING INC.

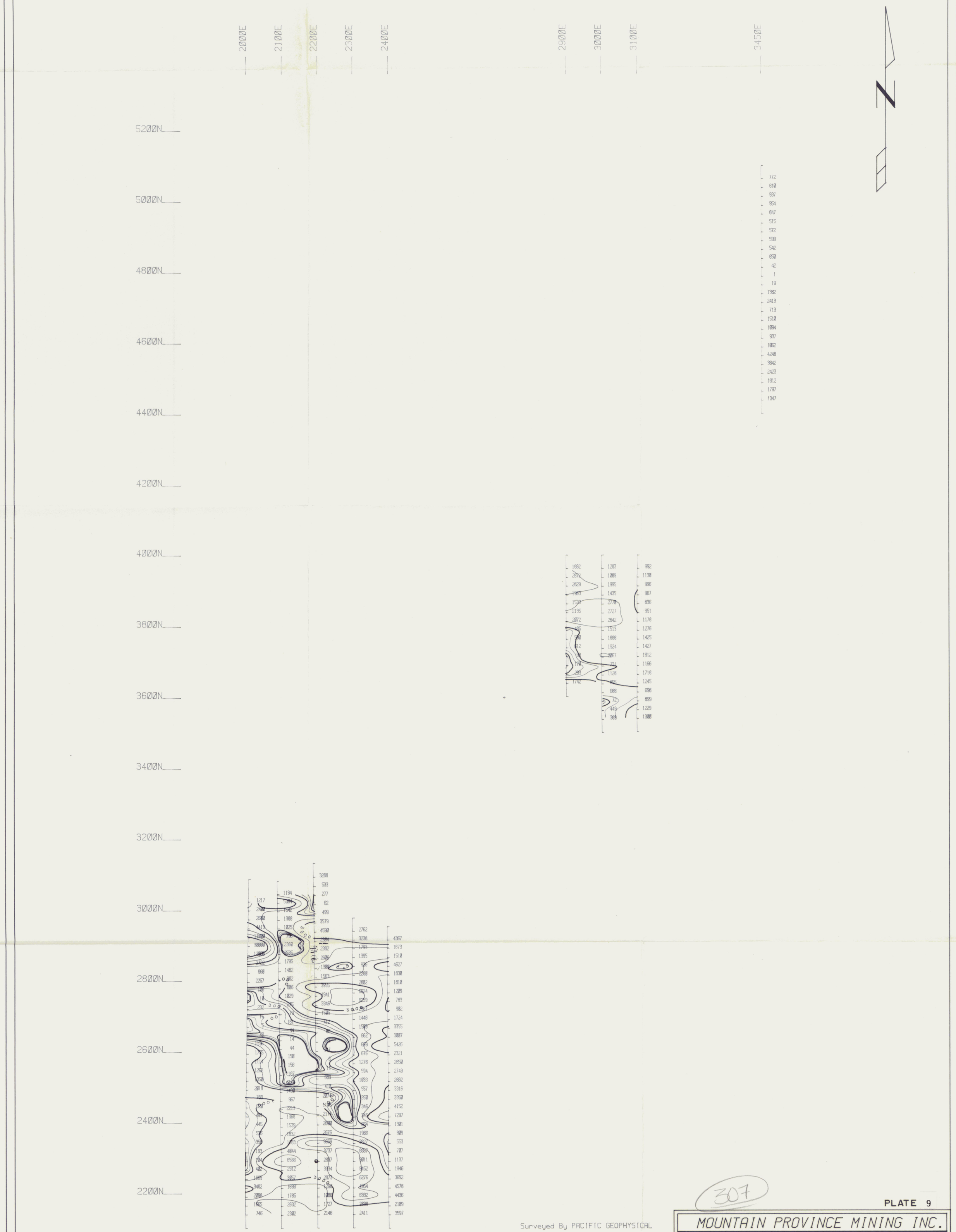
## INDUCED POLARIZATION SURVEY

( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89
SURVEY BY : M.ST.P. NTS : 105F/9
FILE: MIP2KT Dwg.No.IPP-3024M2

Amerlin Exploration Services Ltd.




Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6

Array :Dipole-Dipole.x=25m.n=1
Contour Interval:7.5.10.20 etc. Ohm-m

100m 50m 0m 100m 200m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

307

PLATE 9

# MOUNTAIN PROVINCE MINING INC.

## RESISTIVITY SURVEY

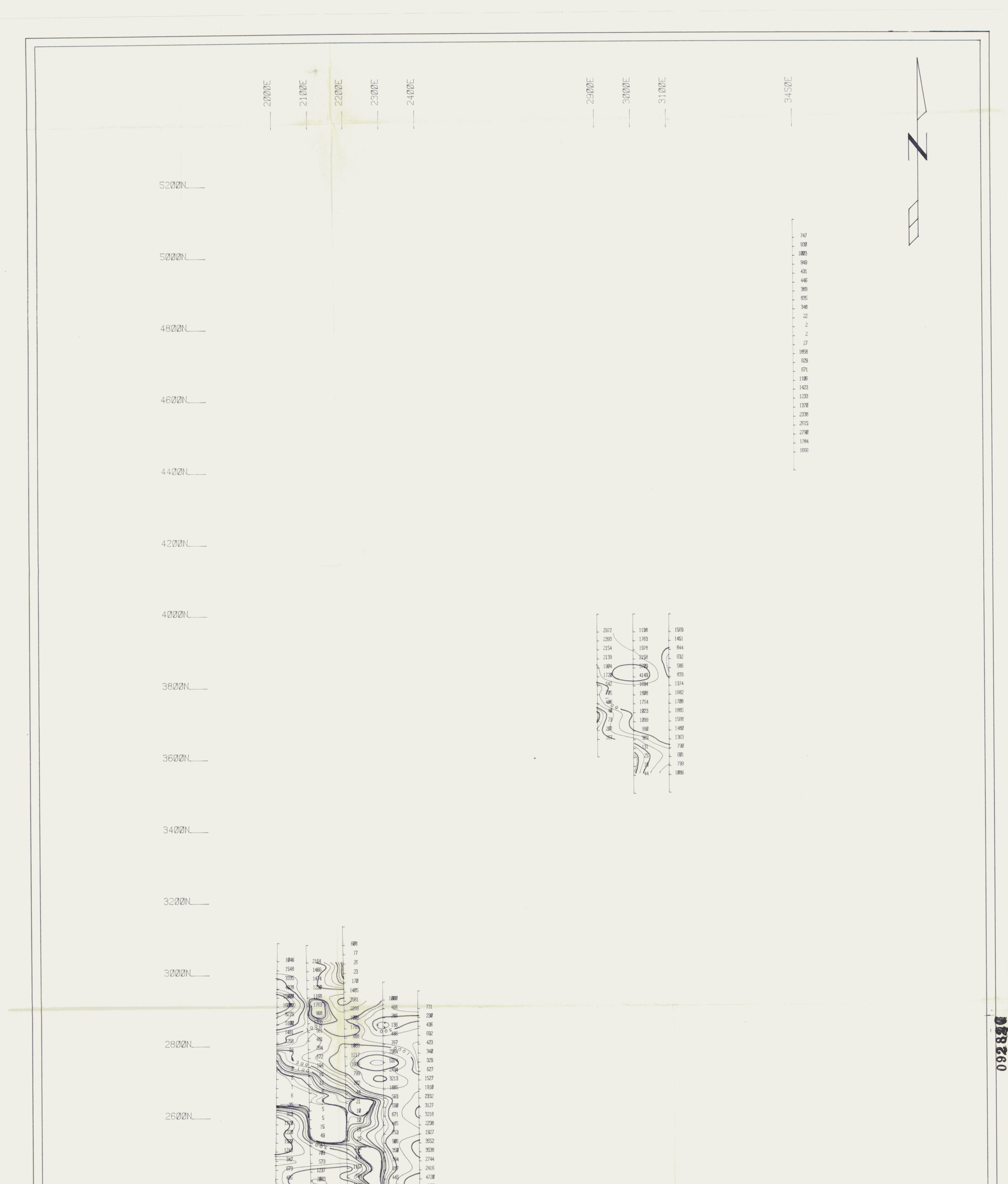
( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89
SURVEY BY : M.ST.P. NTS : 105F/9
FILE: MR01KT Dwg.No.IPP-3024R1

Amerlin Exploration Services Ltd.

092820260


2000E
2100E
2200E
2300E
2400E
2900E
3000E
3100E
3450E
5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N
N
747
930
1003
949
431
446
389
835
348
22
2
2
27
1858
629
671
1106
1423
1233
1370
2338
2515
2790
1784
1666
2972
2393
2154
2139
1904
1720
542
705
486
1198
1763
1978
2158
3709
4149
1694
1808
1754
1023
1099
990
369
131
25
44
1569
1451
844
632
586
839
1374
1682
1708
1885
1568
1480
1363
790
601
799
1086
608
77
26
23
170
1485
2581
2258
1088
1769
888
1869
1217
1666
799
482
24
21
10
10
15
25
1000
468
286
136
486
767
2384
5374
2494
3213
1885
563
590
671
485
753
906
350
494
187
445
430
1249
1974
3468
4931
9402
6089
5212
5096
3757
2512
731
230
436
692
423
340
329
627
1527
1910
2332
3127
3218
2238
1927
3552
3538
2744
2416
4720
4962
1457
1143
559
1018
2179
3090
5266
7294
4722
2831
1046
1548
3335
4028
1600
1275
5100
1481
258
94
2
1
6
35
919
1720
1228
1550
1248
347
673
485
401
460
370
95
104
328
296
648
1511
1539
1335
2154
1466
1474
1250
1168
1763
968
1428
581
481
394
672
194
14
12
5
5
15
49
709
573
1237
2083
1245
1411
2012
2150
4002
3930
2540
1411
1603
1977
2487
1157
1988
2321
3209
5176
3716
2934
2914
3188
1497
620
2654
1000
2001
3000
2000
1000
500
0
500
1000
2000
3000
0
500
1000
2000
3000
0
500
1000
2000
3000




Plotted By PACIFIC GEOPHYSICAL

Instrument : EDA OMNI4
Field : TOTAL
Datum : 57.500 nT

100m 50m 0m 100m 200m

309

PLATE II

# MOUNTAIN PROVINCE MINING INC.

## MAGNETOMETER SURVEY

KETZA PROJECT : WHITE CLAIMS, WATSON LK. M.D. YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1 : 5000 DATE : OCT 1989
SURVEY BY : SW/GS NTS : 105F/9
FILE : Mketdat .ext

Amerlin Exploration Services Ltd.

092E 0220

# GEOLOGICAL, GEOCHEMICAL AND GEOPHYSICAL REPORT ON THE EVE, WHITE AND WHYTE CLAIMS

## VOLUME II

Watson Lake Mining District, Y.T.
NTS 105F/8,9
(61$^0$29' to 61$^0$37'N, 132$^0$19' to 132$^0$27'W)

for

MOUNTAIN PROVINCE MINING INC.
304 - 850 Burrard Street
Vancouver, B.C. V6Z 2J1
(604)682-4787

by

CARL G. VERLEY, B.Sc., Geologist
Amerlin Exploration Services Ltd.
812 - 525 Seymour Street
Vancouver, B.C. V6B 3H7
(604)689-1868

20
09288

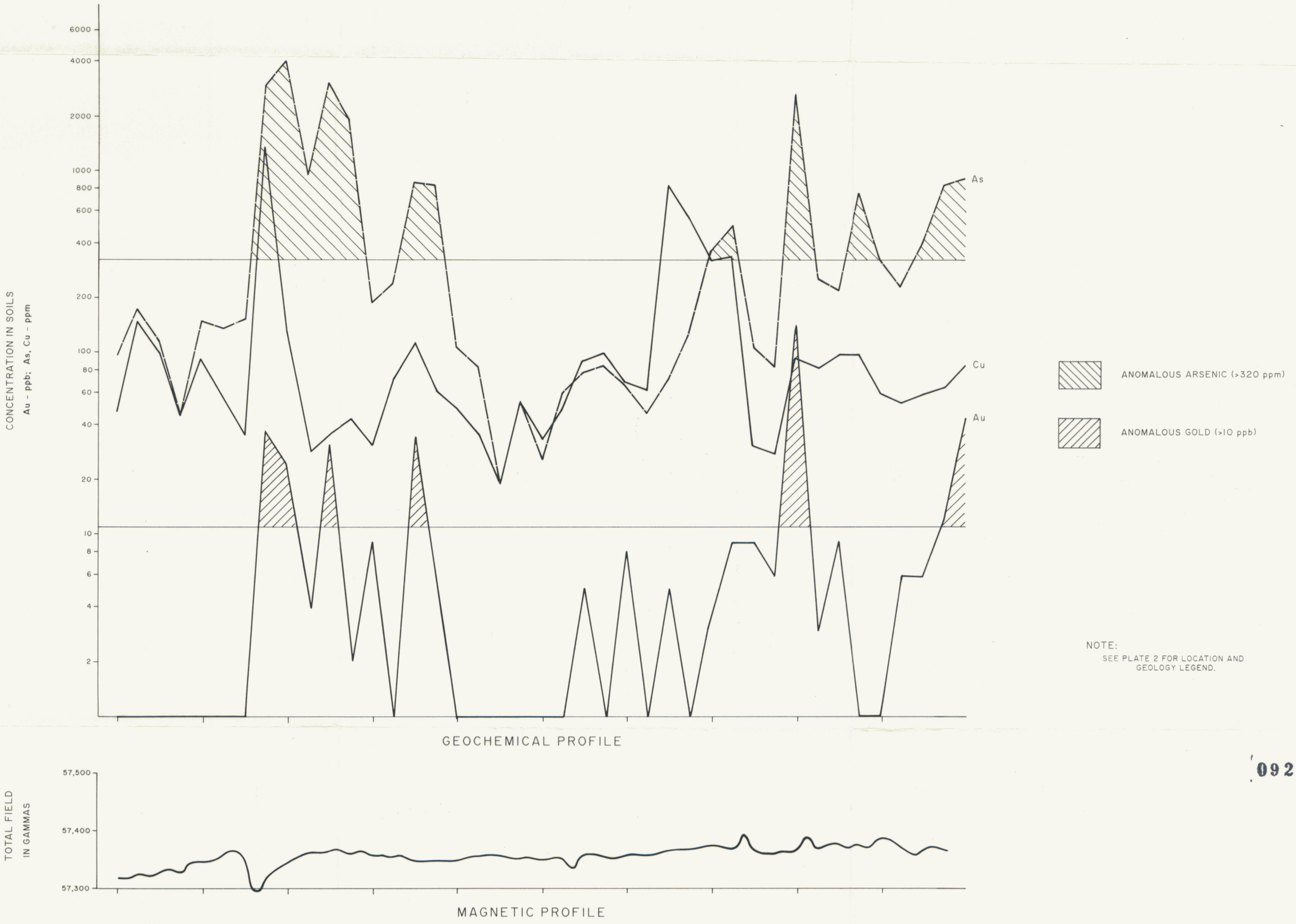
February 1990

EXPLORATION INCENTIVES PROGRAM: Designation number EIP89005
CLAIMS: EVE 1-138, WHITE 1-123 AND WHYTE 1-24.
LOCATION: 45 Km(28 Mi) south of Ross River.
DATE: September 8 to October 22, 1989.

## TABLE OF CONTENTS - VOLUME II


Plates

3 Composite Section, West Zone, Line 2000E. . . .in pockets
4 Composite Section, West Zone, Line 2100E. . . . . "
5 Composite Section, West Zone, Line 2200E. . . . . "
6 Composite Section, West Zone, Line 2300E. . . . . "
7 Composite Section, West Zone, Line 2400E. . . . . "
8 Composite Section, Lake Zone, Line 2900E. . . . . "
9 Composite Section, Lake Zone, Line 3000E. . . . . "
10 Composite Section, Lake Zone, Line 3100E. . . . . "
11 Composite Section, Lake Zone, Line 3450E. . . . . "
12 Composite Section, North Zone, Line L2. . . . . "
13 Composite Section, North Zone, Line L3. . . . . "
14 Composite Section, North Zone, Line L4. . . . . "
15 Soil Geochemistry: Main Grid, White Claims, Au & As . "
16 Soil Geochemistry: Main Grid, White Claims, Ag & Pb . "
17 Soil Geochemistry: Main Grid, White Claims, Cu & Zn . "
18 Magnetic Contour Map and Induced Polarization . . . . "
Interpretation, Main Grid . . . . . "
19 Plan of Chargeability at n=1, Main Grid . . . . . "
20 Plan of Chargeability at n=2, Main Grid . . . . . "
21 Plan of Resistivity at n=1, Main Grid . . . . . "
22 Plan of Resistivity at n=2, Main Grid . . . . . "




0928 20

312 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

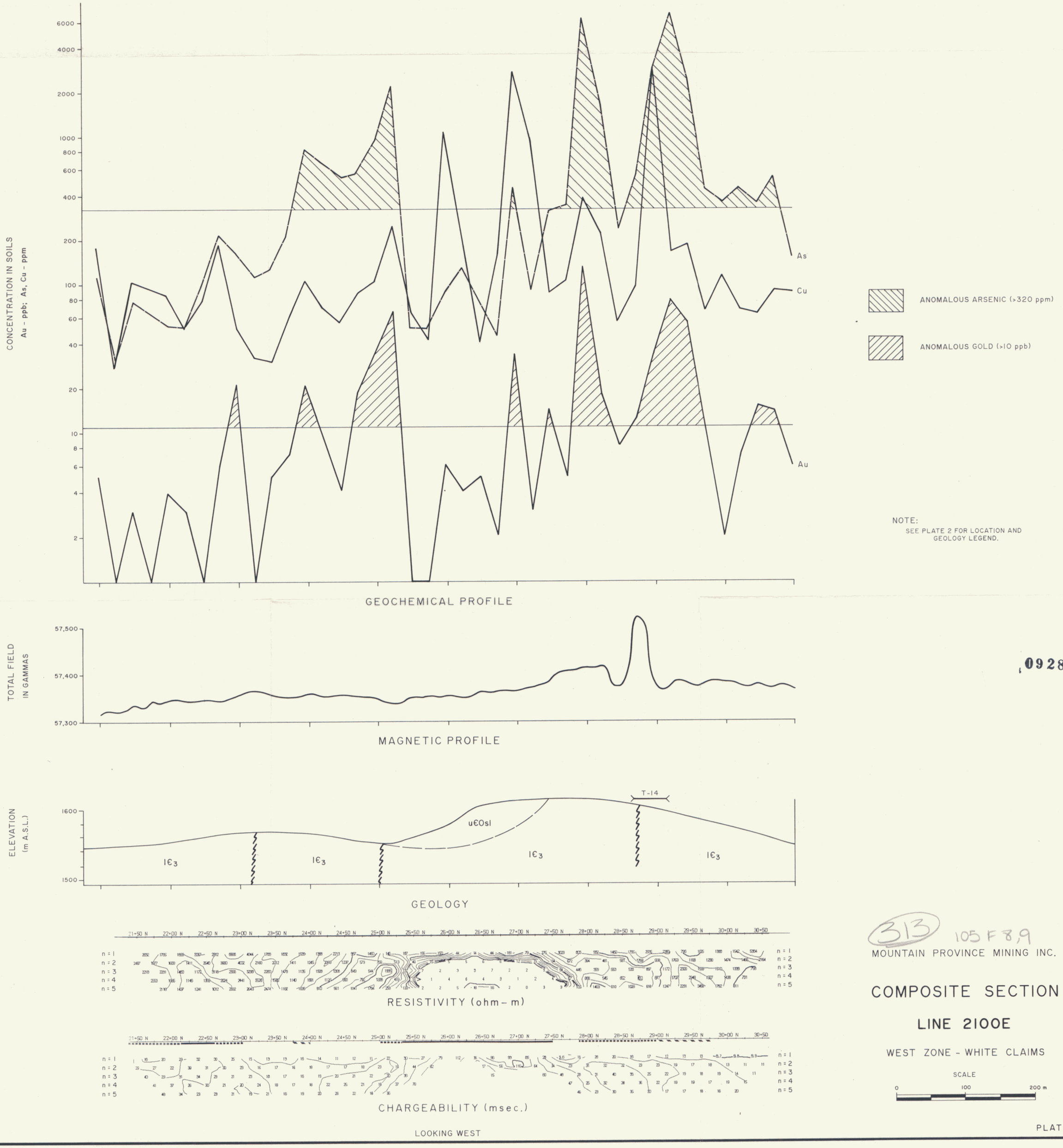
## LINE 2000E

WEST ZONE - WHITE CLAIMS

SCALE

0 100 200 m

PLATE 3




0928 20

313 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE 2100E

WEST ZONE - WHITE CLAIMS

SCALE

0 100 200 m

PLATE 4

CONCENTRATION IN SOILS
Au - ppb; As, Cu - ppm

6000
4000
2000
1000
800
600
400
200
100
80
60
40
20
10
8
6
4
2

As
Cu
Au

ANOMALOUS ARSENIC (>320 ppm)

ANOMALOUS GOLD (>10 ppb)

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

GEOCHEMICAL PROFILE

TOTAL FIELD
IN GAMMAS

57,500
57,400
57,300

MAGNETIC PROFILE

ELEVATION
(m A.S.L.)

1600

T-12 0.173 oz/t Au

$L\epsilon_3$
$u\epsilon Osl$
$l\epsilon_3$
$u\epsilon Osl$
$l\epsilon_3$

GEOLOGY

21+50 N | 22+00 N | 22+50 N | 23+00 N | 23+50 N | 24+00 N | 24+50 N | 25+00 N | 25+50 N | 26+00 N | 26+50 N | 27+00 N | 27+50 N | 28+00 N | 28+50 N | 29+00 N | 29+50 N | 30+00 N | 30+50

n = 1
n = 2
n = 3
n = 4
n = 5

RESISTIVITY (ohm-m)

CHARGEABILITY (msec.)

LOOKING WEST

314 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

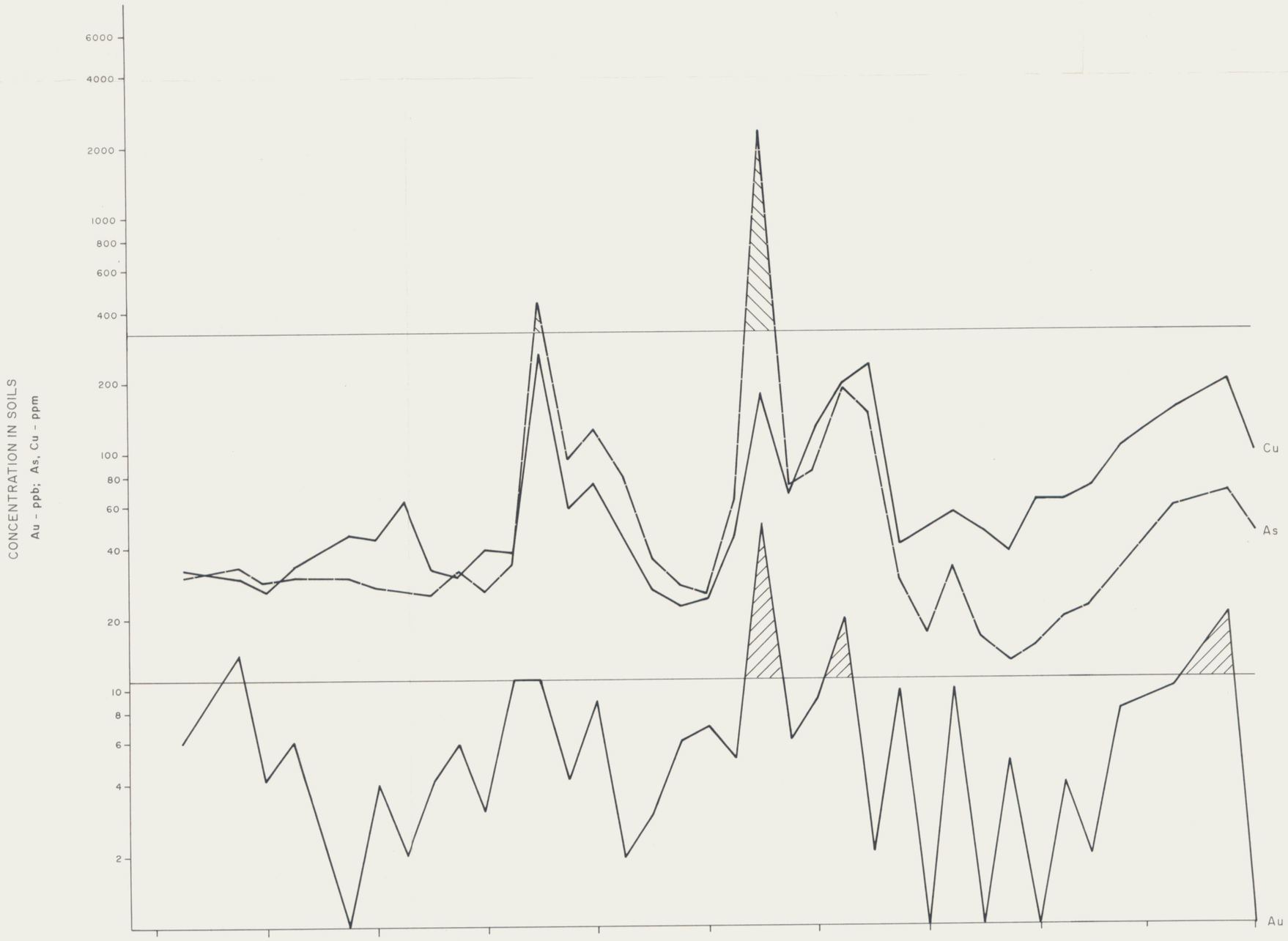
# COMPOSITE SECTION
# LINE 2200E

WEST ZONE - WHITE CLAIMS

SCALE
0 100 200 m

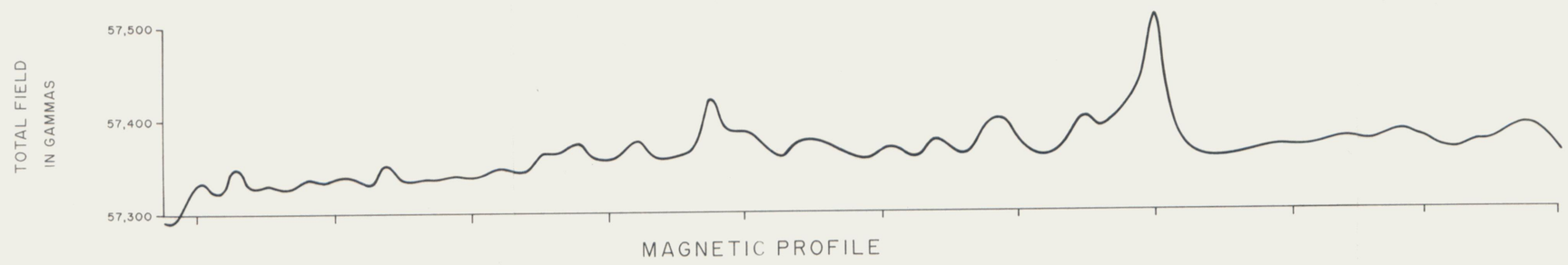
PLATE 5

20
092812

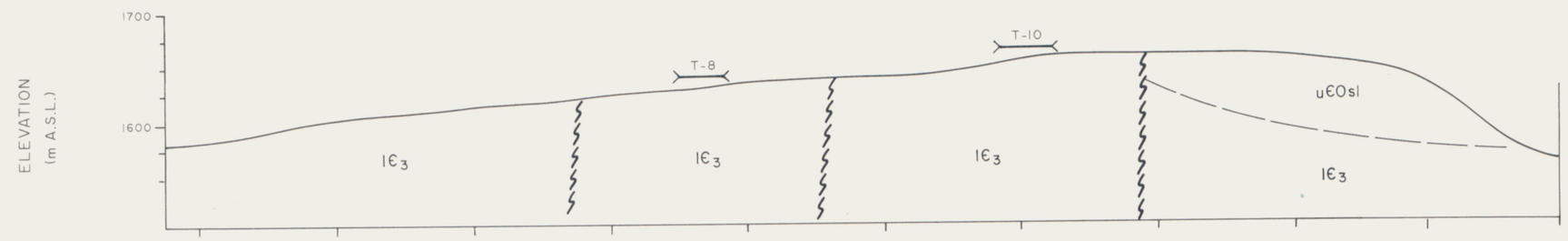



GEOCHEMICAL PROFILE

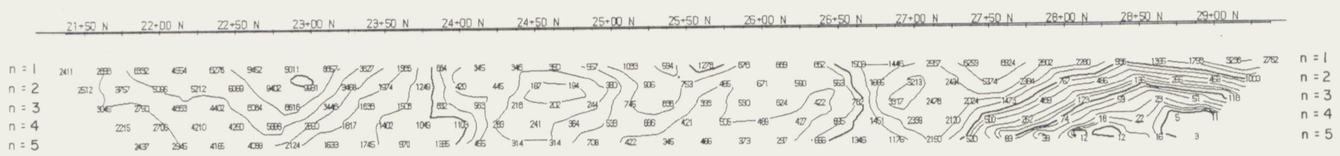
NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.



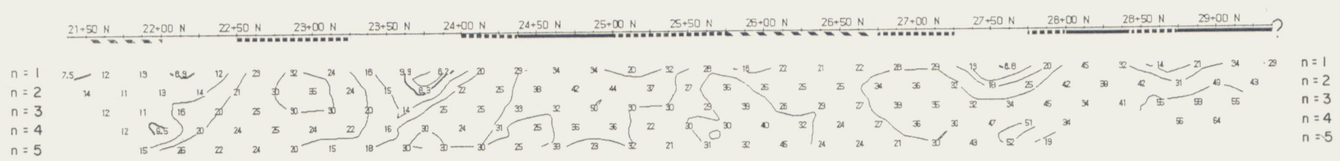

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

315 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE 2300E

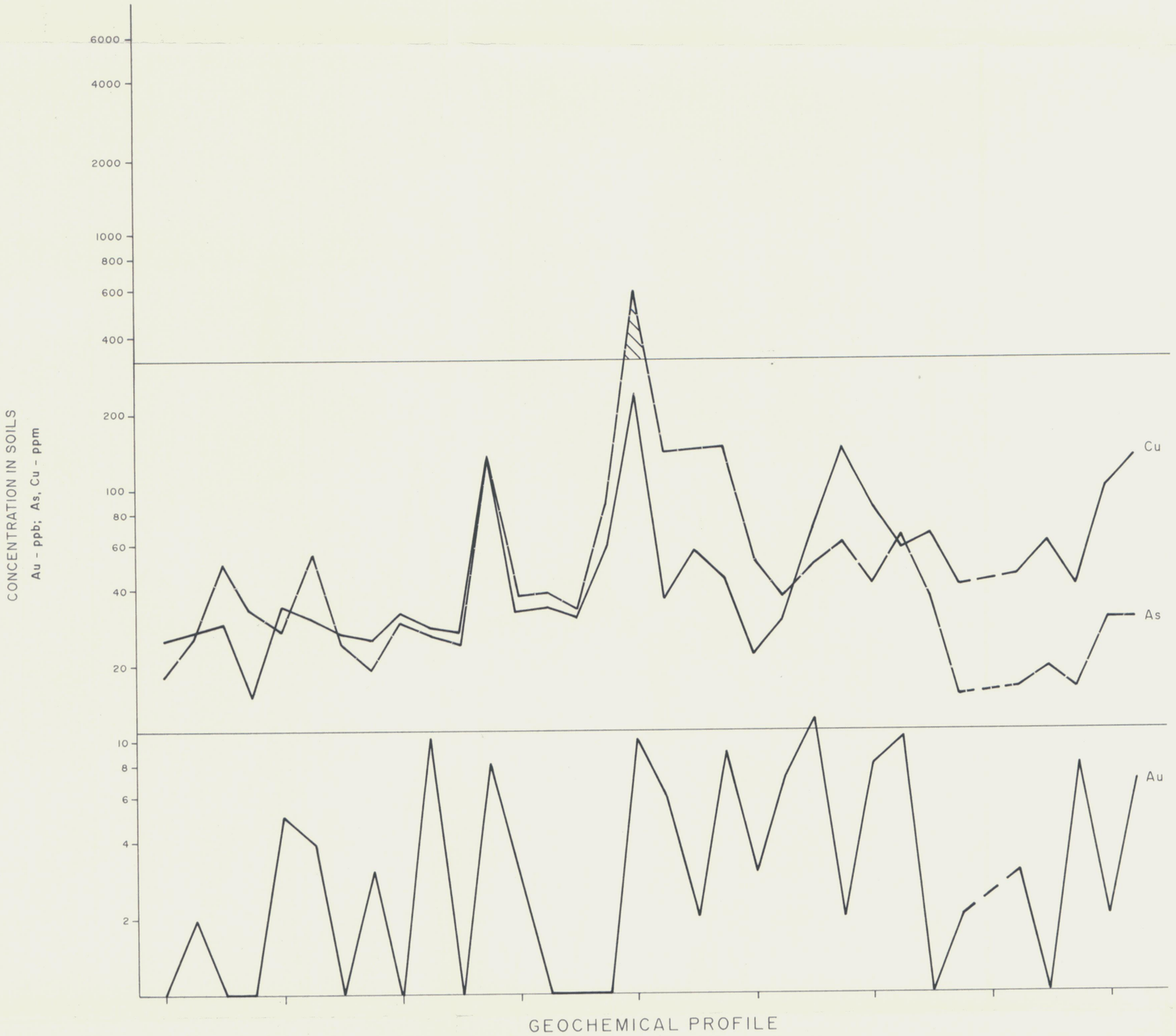
WEST ZONE - WHITE CLAIMS

SCALE

0 100 200 m

20
82601

PLATE 6

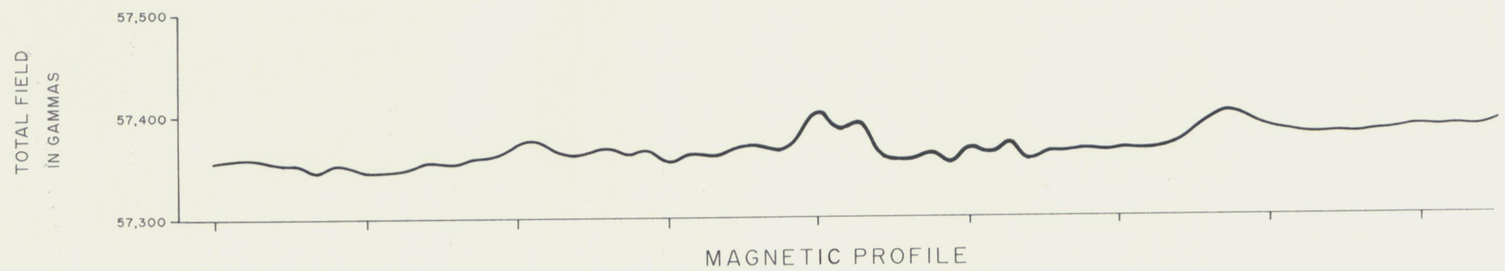



GEOCHEMICAL PROFILE

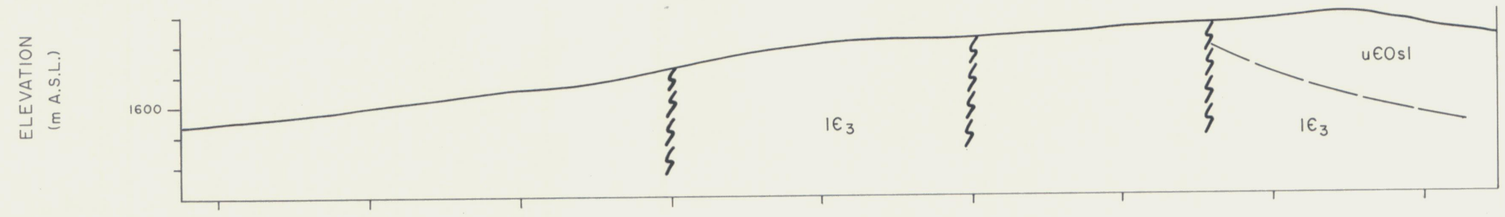
ANOMALOUS ARSENIC (>320 ppm)

ANOMALOUS GOLD (>10 ppb)

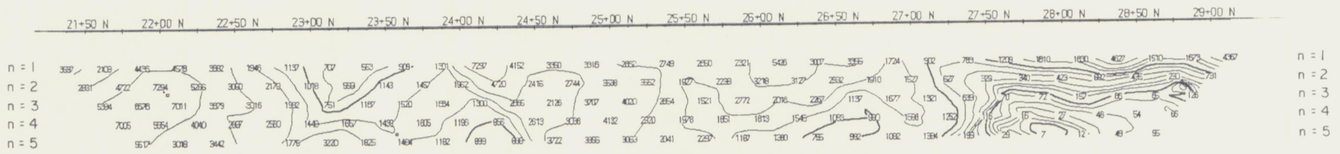
NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.



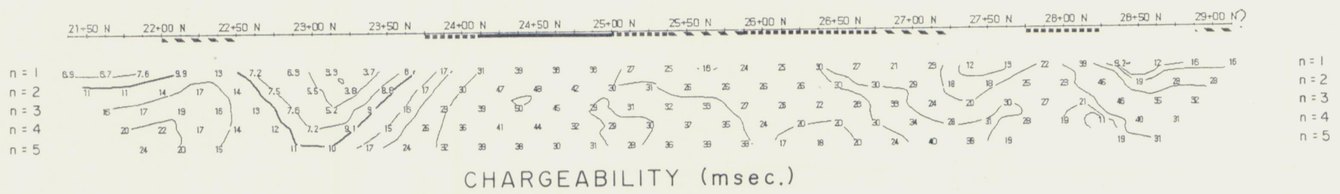

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

092820

316 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE 2400E

WEST ZONE - WHITE CLAIMS

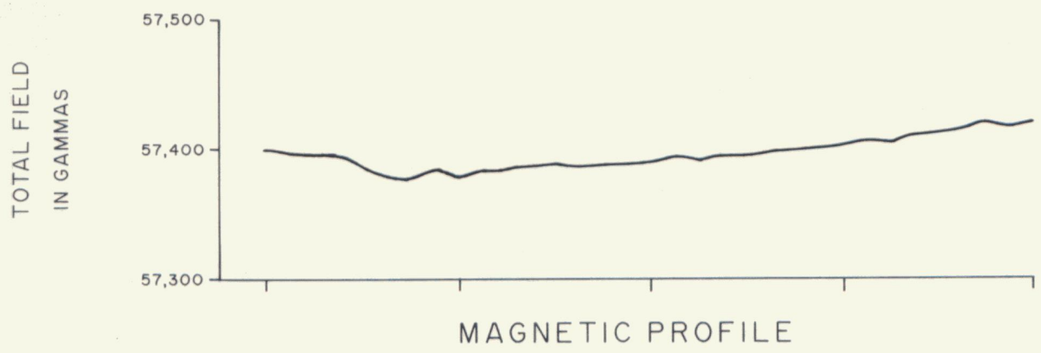
SCALE

0 100 200 m

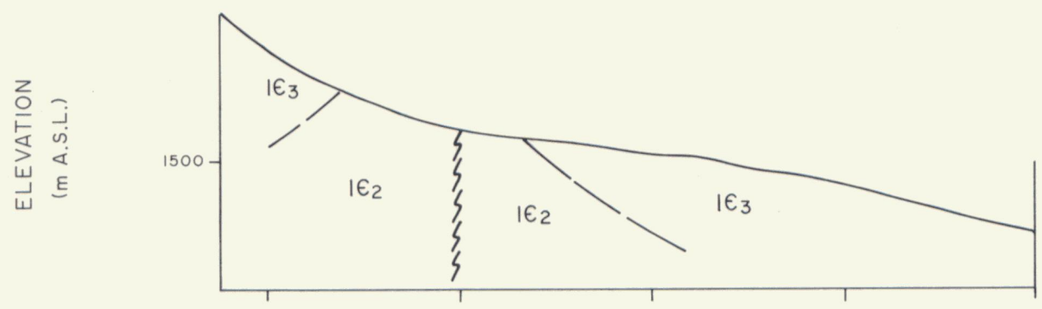
PLATE 7



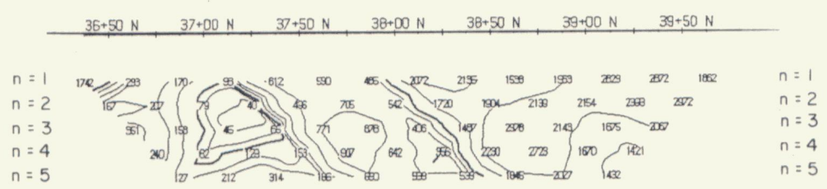

GEOCHEMICAL PROFILE



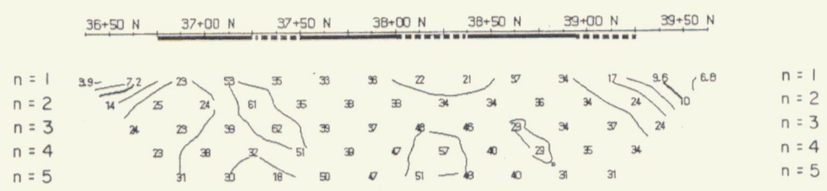

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.).

LOOKING WEST

ANOMALOUS SILVER (>2.7 ppm)

ANOMALOUS LEAD (>192 ppm)

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

092820

317 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

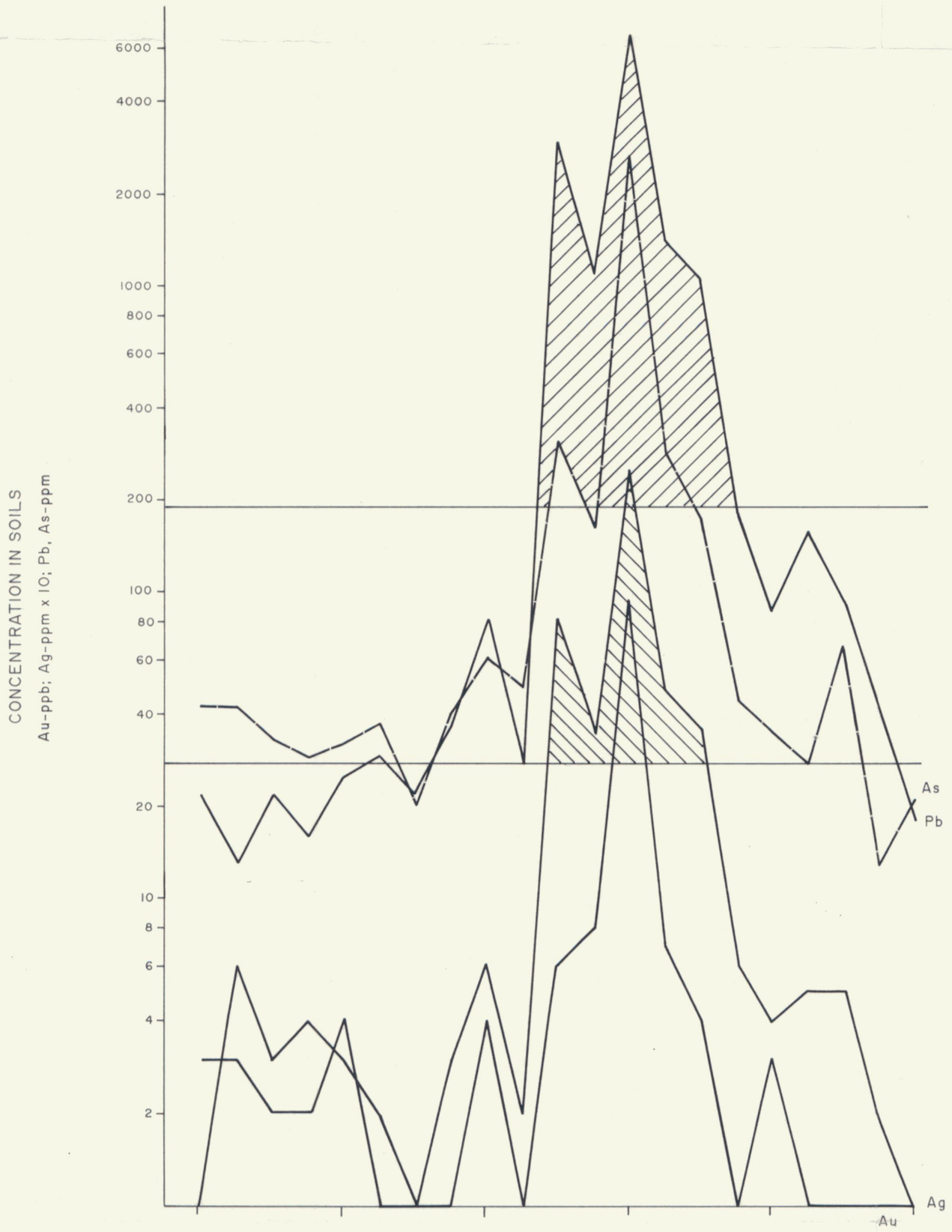
## LINE 2900E

LAKE ZONE - WHITE CLAIMS

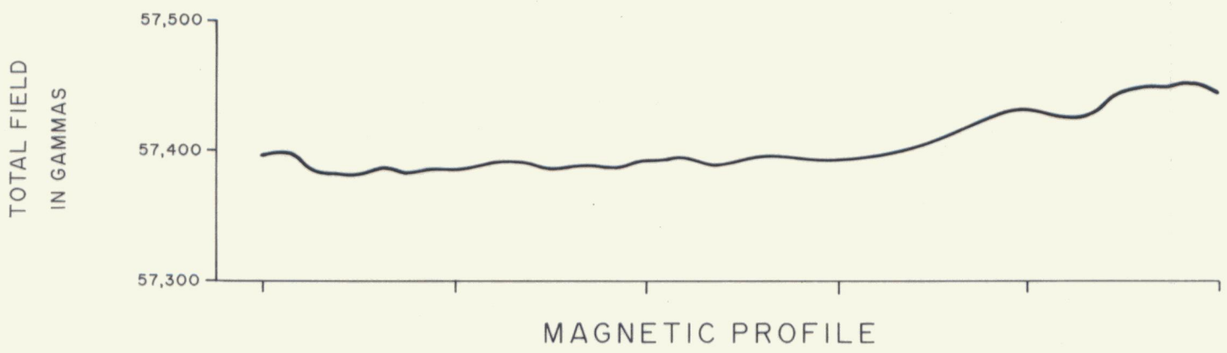
SCALE

0 100 200 m

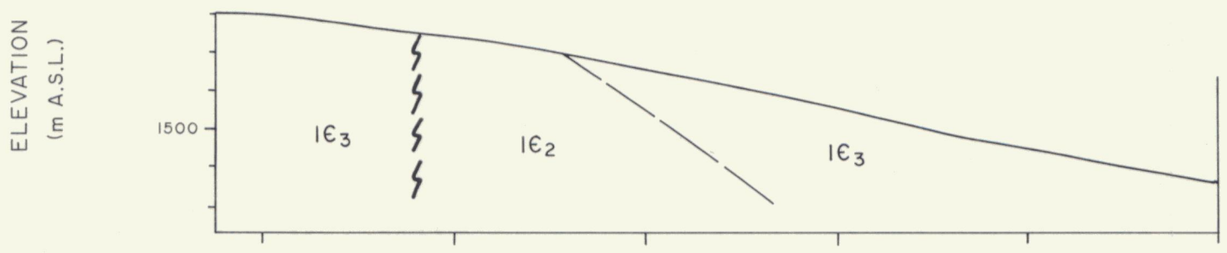
PLATE 8



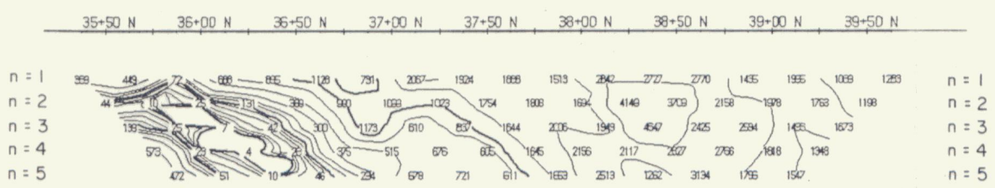

GEOCHEMICAL PROFILE



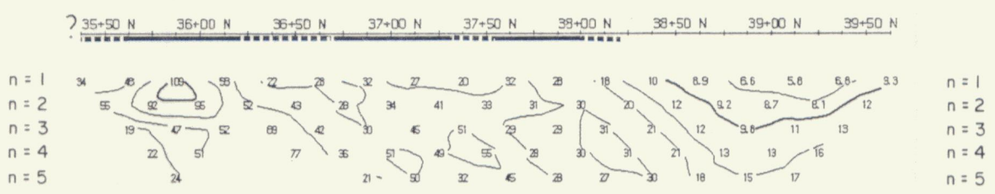

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

ANOMALOUS SILVER (>2.7 ppm)

ANOMALOUS LEAD (>192 ppm)

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

092820

318 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

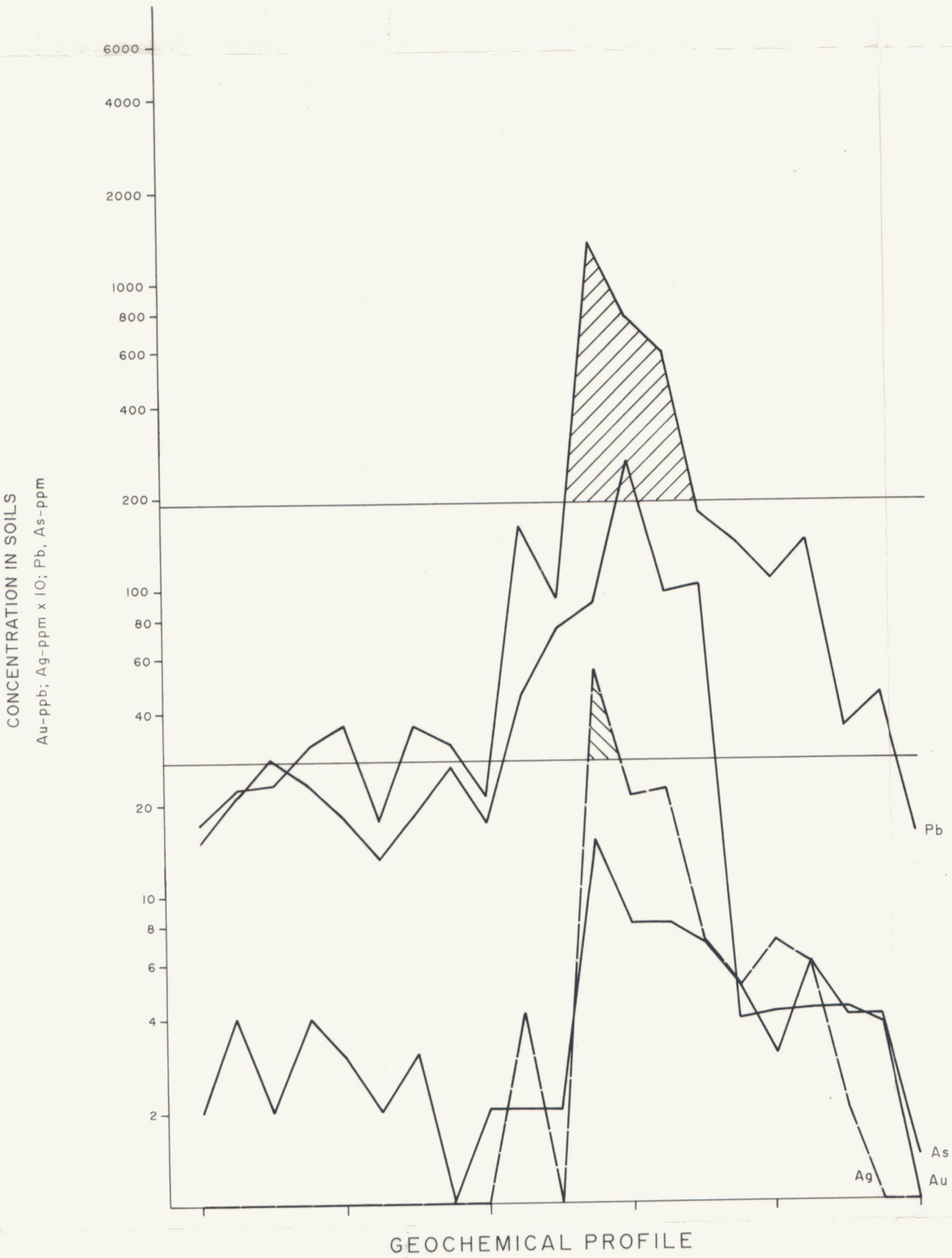
# COMPOSITE SECTION

## LINE 3000E

LAKE ZONE - WHITE CLAIMS

SCALE

0 100 200 m

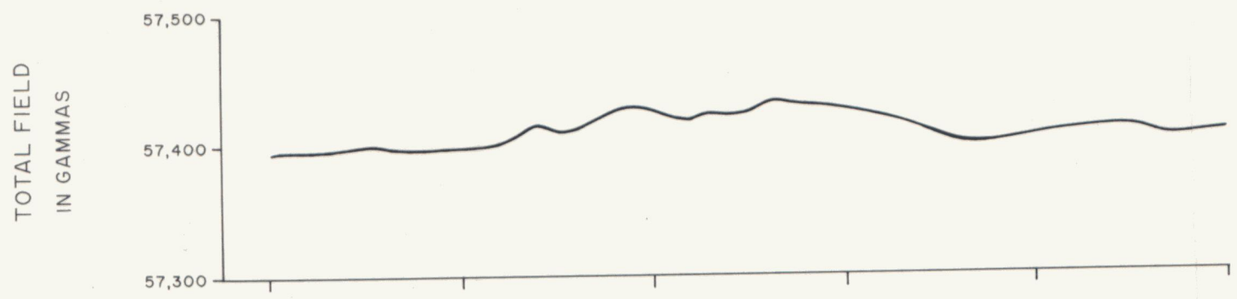



GEOCHEMICAL PROFILE

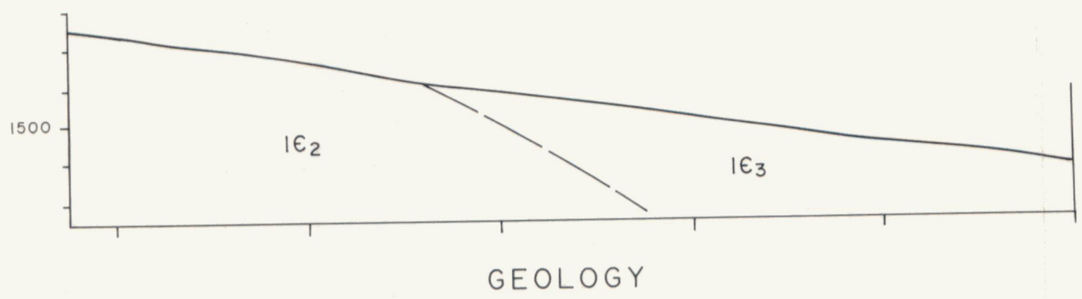
ANOMALOUS SILVER (>2.7 ppm)

ANOMALOUS LEAD (>192 ppm)

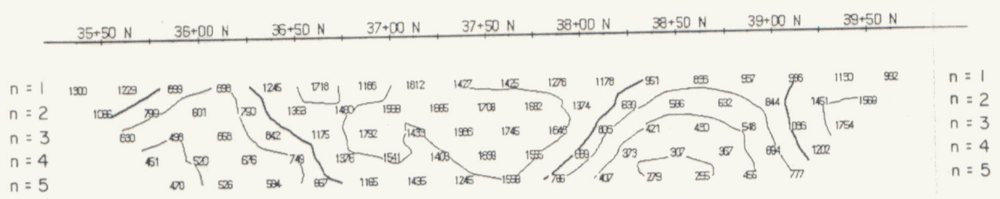
NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.



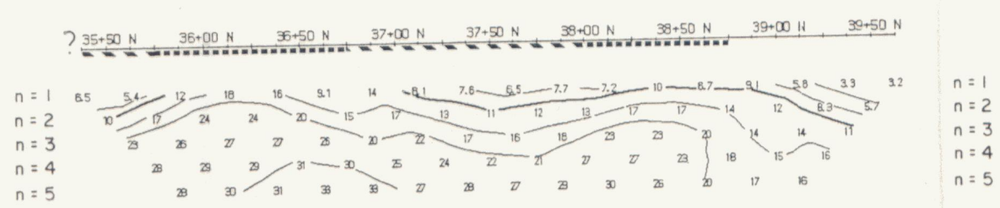

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

092619

319 F105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

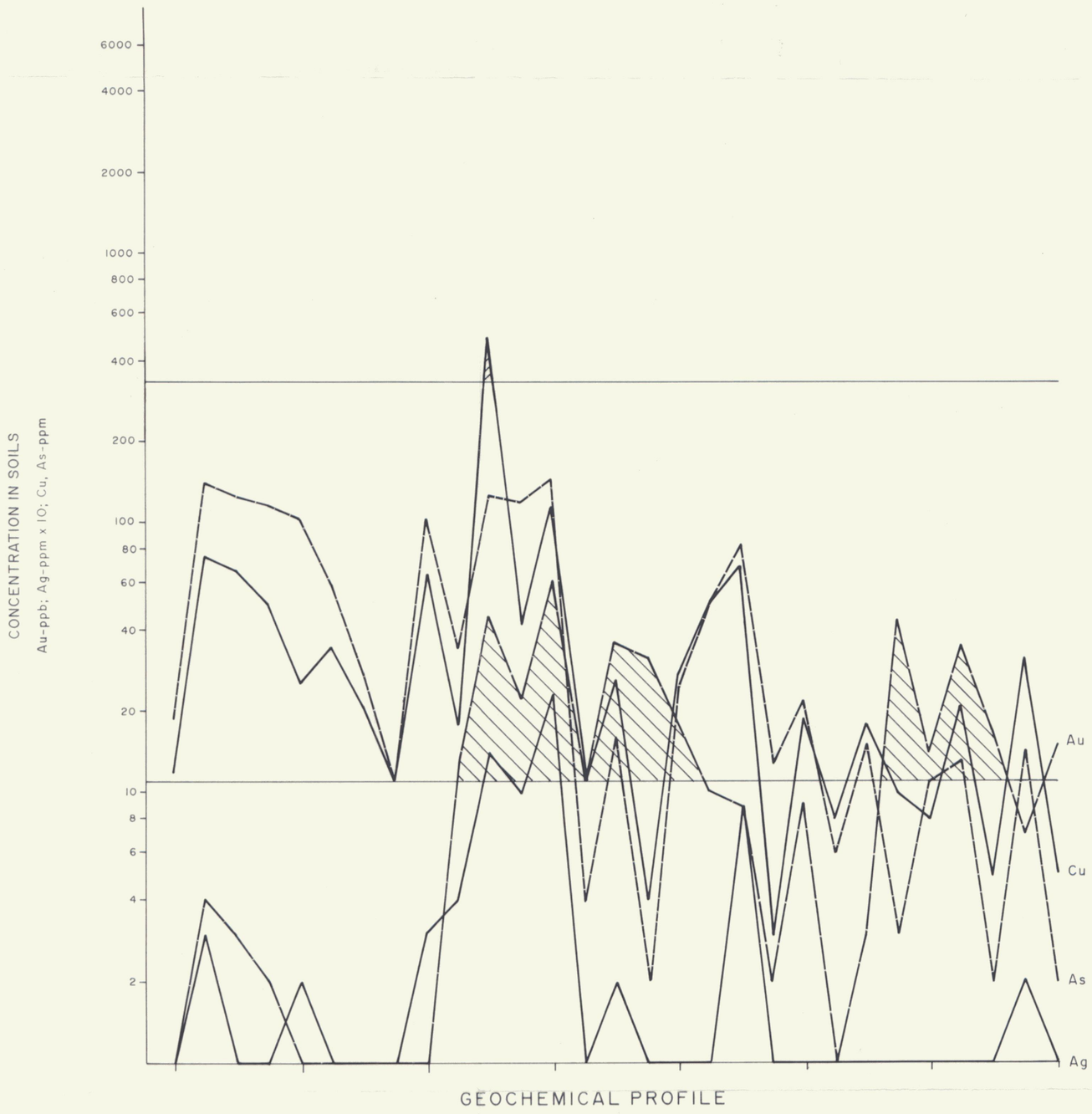
## LINE 3100E

LAKE ZONE - WHITE CLAIMS

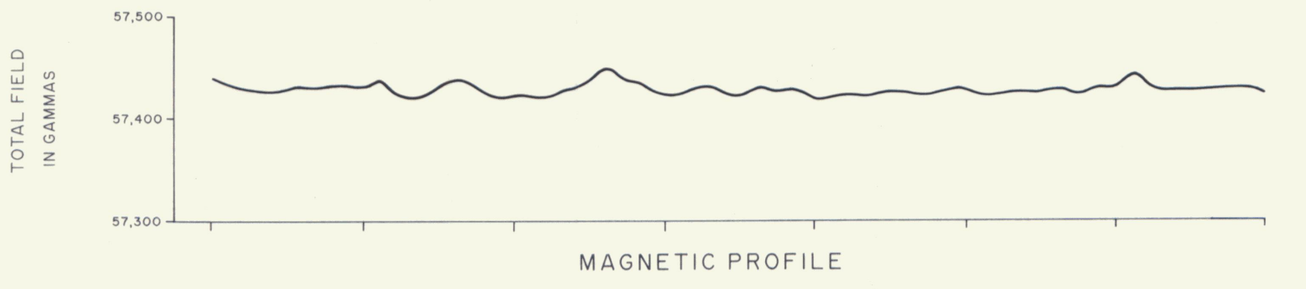
SCALE

0 100 200 m

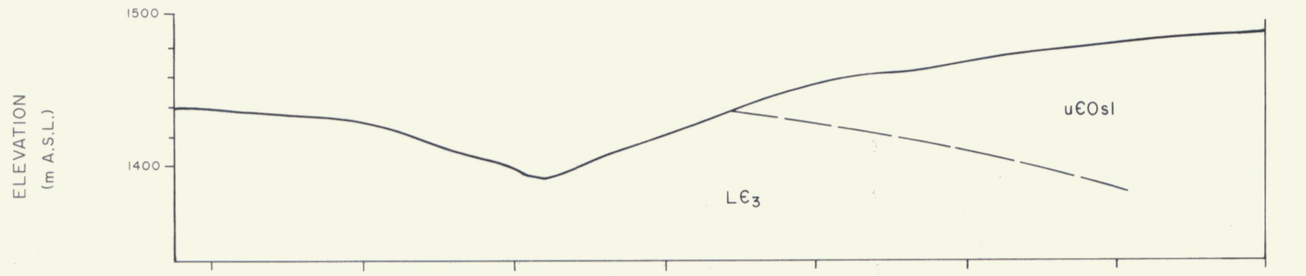
PLATE 10



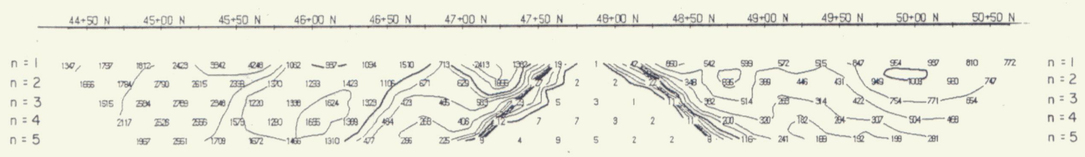

GEOCHEMICAL PROFILE



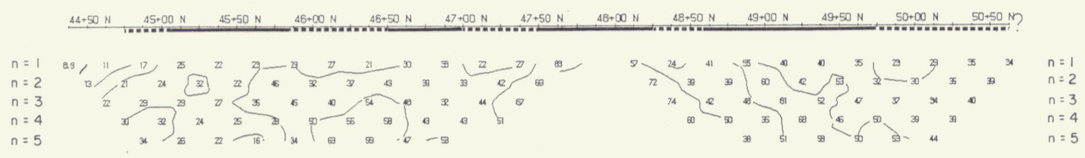

MAGNETIC PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

ANOMALOUS GOLD (>10 ppb)

ANOMALOUS COPPER (>330 ppm)

NOTE:
SEE PLATE 2 FOR LOCATION AND GEOLOGY LEGEND.

092820

320 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

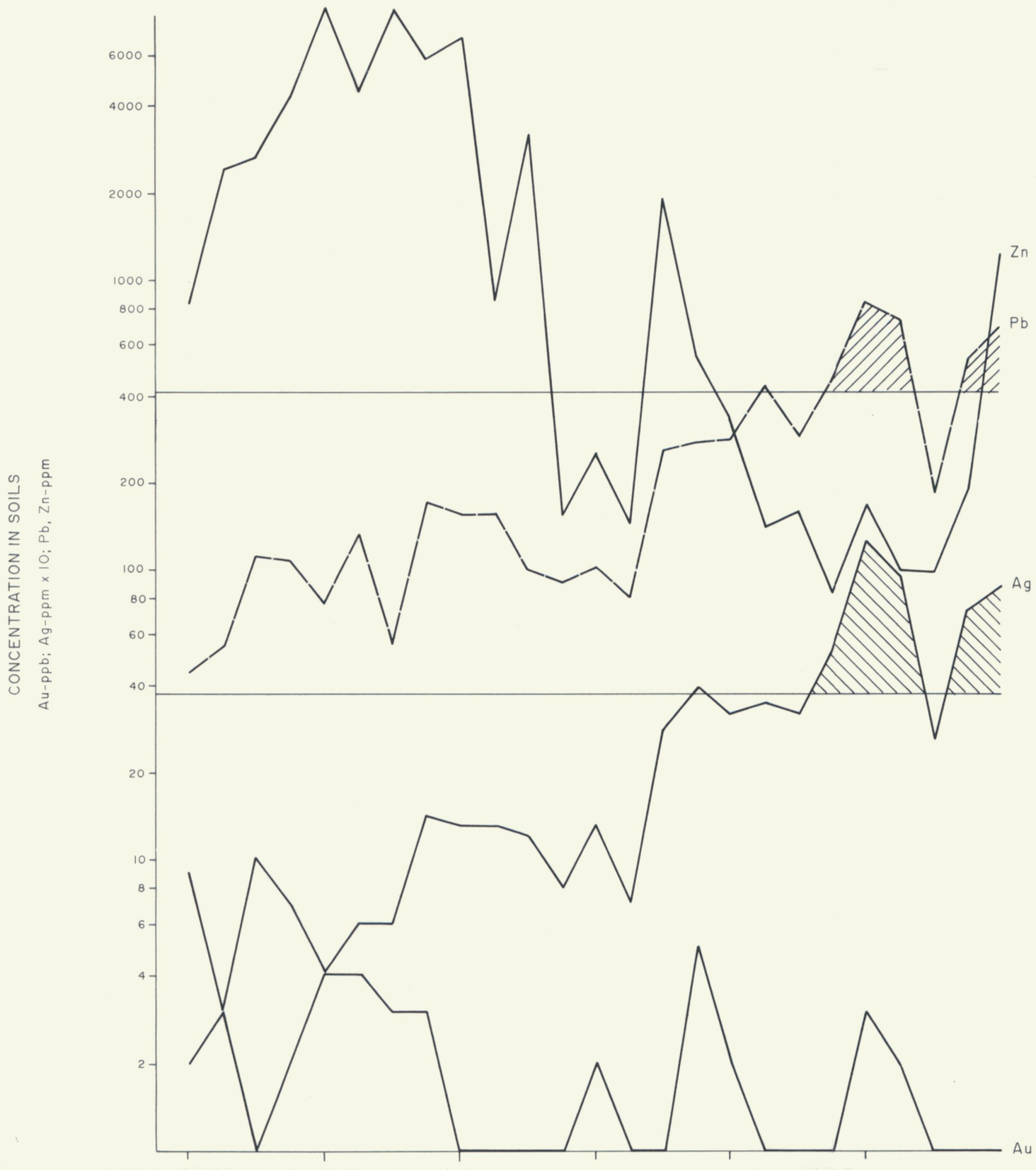
## LINE 3450E

MAIN GRID — WHITE CLAIMS

SCALE

0 100 200 m

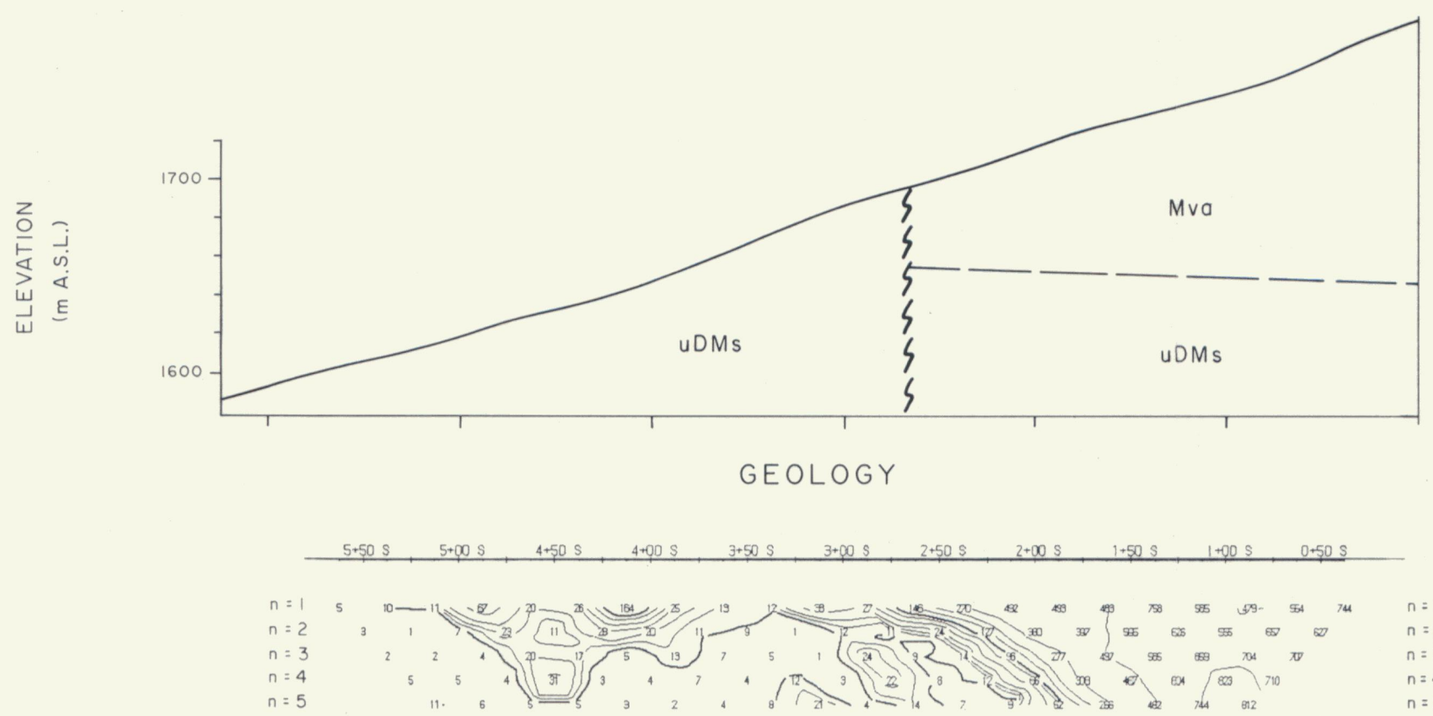
PLATE II




ANOMALOUS SILVER (>3.7 ppm)

ANOMALOUS LEAD (>409 ppm)

NOTE:
SEE FIGURE 5 FOR LOCATION AND GEOLOGY LEGEND.




LOOKING WEST

092820

321 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE L2

NORTH ZONE - WHITE CLAIMS

SCALE

0 100 200 m

PLATE 12

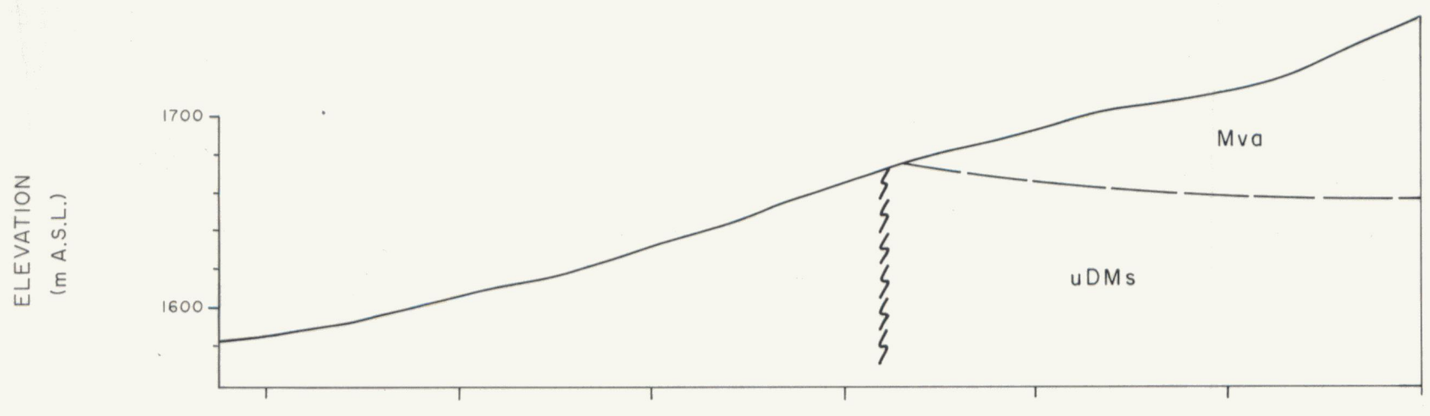



ANOMALOUS SILVER (>3.7 ppm)

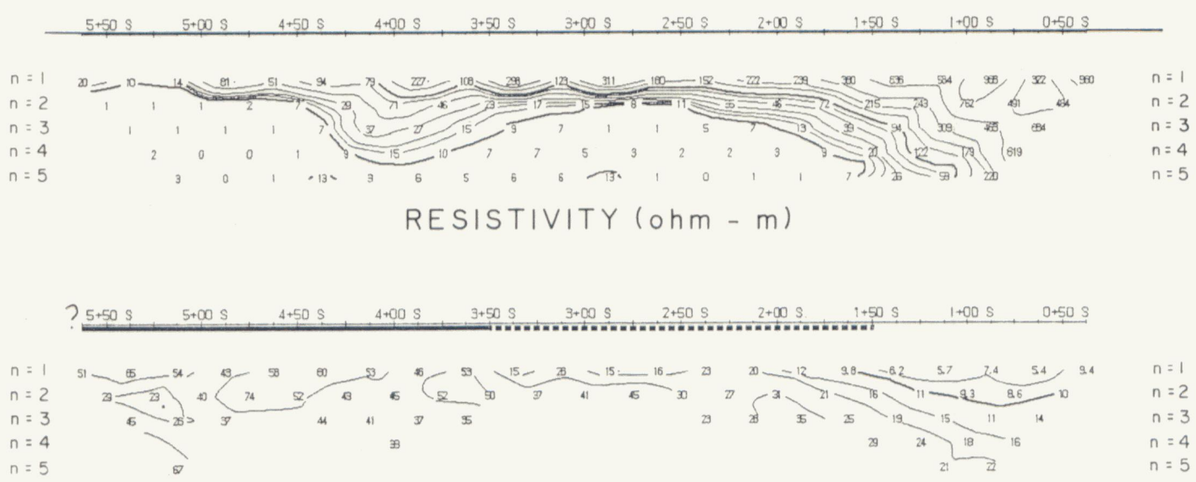
ANOMALOUS LEAD (>409 ppm)

NOTE:
SEE FIGURE 5 FOR LOCATION AND GEOLOGY LEGEND.

GEOCHEMICAL PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

322 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE L3

NORTH ZONE - WHITE CLAIMS

SCALE

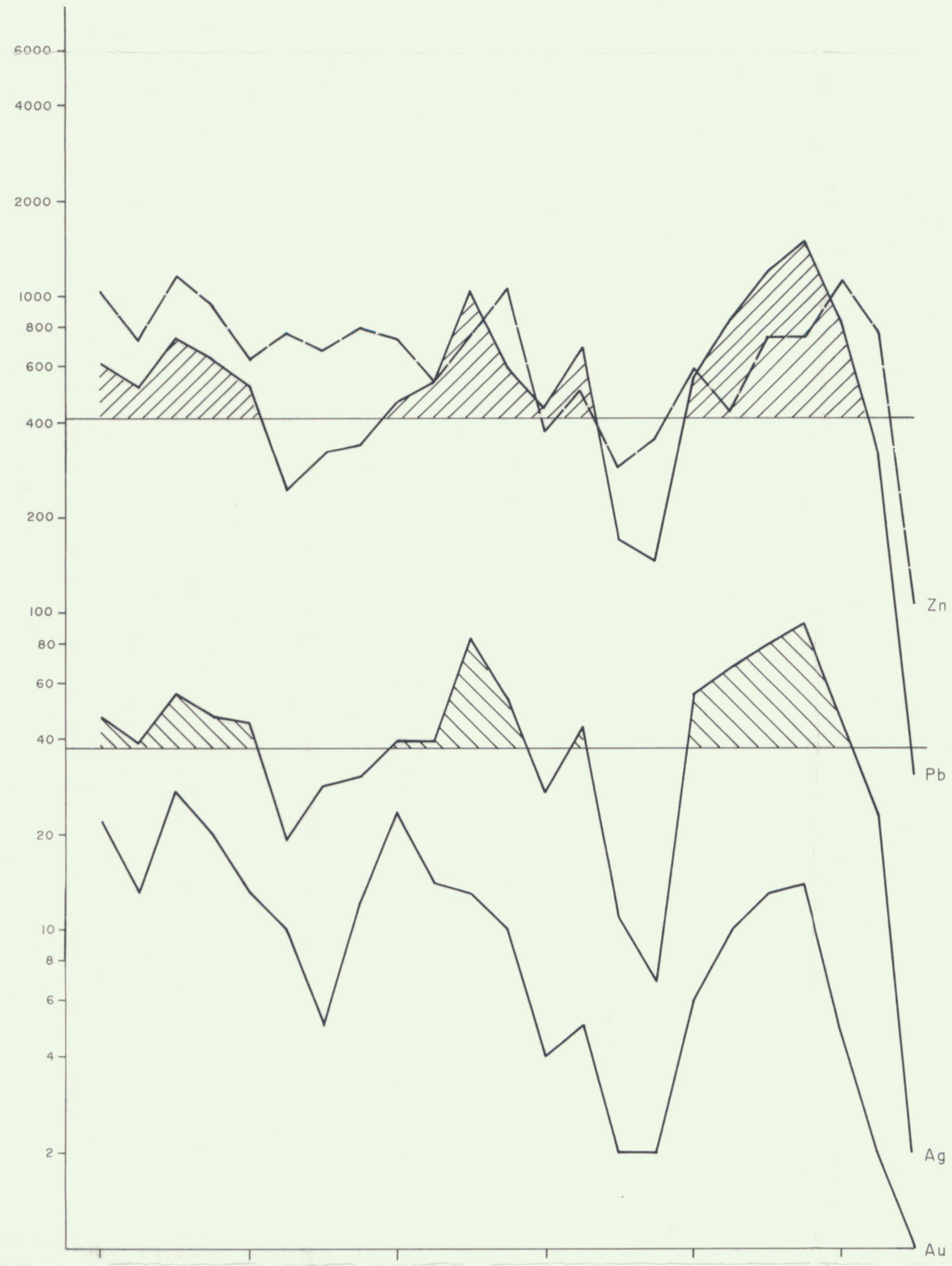
0 100 200 m

092820

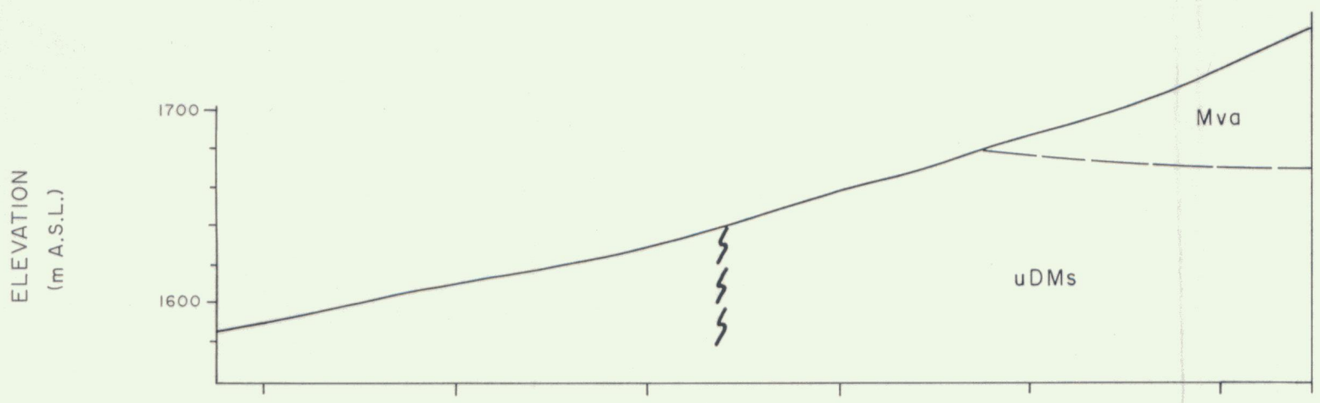
PLATE 13

CONCENTRATION IN SOILS

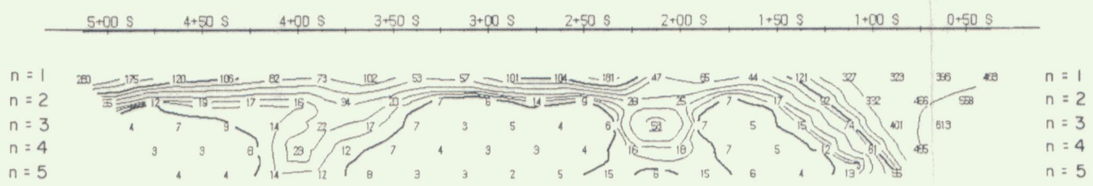
Au-ppb; Ag-ppm x 10; Pb, Zn-pm



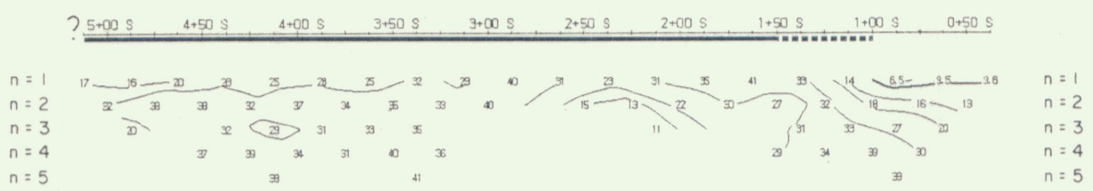

GEOCHEMICAL PROFILE




GEOLOGY




RESISTIVITY (ohm - m)




CHARGEABILITY (msec.)

LOOKING WEST

ANOMALOUS SILVER (>3.7 ppm)

ANOMALOUS LEAD (>409 ppm)

NOTE:

SEE FIGURE 5 FOR LOCATION AND GEOLOGY LEGEND.

0928

MOUNTAIN PROVINCE MINING INC.

# COMPOSITE SECTION

## LINE L4

NORTH ZONE - WHITE CLAIMS

SCALE

0 100 200 m

PLATE 14

## EXPLANATION

Au ◇ As — SOIL SAMPLE SITE WITH GOLD IN ppb, ARSENIC IN ppm.

| | GOLD (ppb) | ARSENIC (ppm) |
|---|---|---|
| BACKGROUND | 1 - 6 | 1 - 184 |
| POSSIBLY ANOMALOUS | 7 - 10 | 185 - 320 |
| ANOMALOUS | 11 - 44 | 321 - 1389 |
| STRONGLY ANOMALOUS | 45+ | 1390+ |

NOTE:

NS NO SAMPLES.

REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

0928

(324) 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY GOLD AND ARSENIC

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9

WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812 - 525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

PLATE 15

## EXPLANATION

Ag o Pb — SOIL SAMPLE SITE WITH SILVER IN ppm, LEAD IN ppm.

| | SILVER (ppm) | LEAD (ppm) |
|---|---|---|
| BACKGROUND | 0.1-1.6 | 2-96 |
| POSSIBLY ANOMALOUS | 1.7-2.7 | 97-192 |
| ANOMALOUS | 2.8-9.8 | 193-1104 |
| STRONGLY ANOMALOUS | 9.9+ | 1105+ |

NOTE:

SILVER VALUES LESS THAN 0.2ppm NOT PLOTTED.

NS NO SAMPLE.

REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

092815

325 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY SILVER AND LEAD

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9

WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

## EXPLANATION

Cu o Zn — SOIL SAMPLE SITE WITH COPPER IN ppm, ZINC IN ppm.

| | COPPER (ppm) | ZINC (ppm) |
|---|---|---|
| BACKGROUND | 1-153 | 0-194 |
| POSSIBLY ANOMALOUS | 154-329 | 195-289 |
| ANOMALOUS | 330-1599 | 290-639 |
| STRONGLY ANOMALOUS | 1600+ | 640+ |

NOTE:
NS NO SAMPLE
REFER TO PLATE 10 FOR LOCATION OF GRID WITH RESPECT TO GEOLOGY.

0928

326 105 F 8,9

MOUNTAIN PROVINCE MINING INC.

# SOIL GEOCHEMISTRY COPPER AND ZINC

## WHITE CLAIMS

CLOUTIER CREEK MAP SHEET, NTS 105F/9
WATSON LAKE MINING DISTRICT, YUKON

0 100 200 300 400 500 metres

Scale 1 : 5,000

AMERLIN EXPLORATION SERVICES LTD.
812-525 SEYMOUR STREET
VANCOUVER, B.C. V6B 3H7

PLATE 17




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Extent of I.P. Survey Coverage

Trench

Outline of Anomalous I.P. Zone :

To Accompany Report By

M. St. Pierre and P.A. Cartwright

Plotted By PACIFIC GEOPHYSICAL

Instruments : EDA OMNI4, EDA IP-6
Field : TOTAL
Datum : 57.500 nT

Contour Interval : 20.0 nT

I.P. Anomaly Class :

Strong
Moderate
Weak

100m 50m 0m 100m 200m

327

PLATE 18

# MOUNTAIN PROVINCE MINING INC.

INDUCED POLARIZATION INTERPRETATION
MAGNETIC CONTOURS
KETZA PROJECT : WHITE CLAIMS, WATSON LK. M.D. YUKON
BASELINE AZIMUTH : 90 Deg.

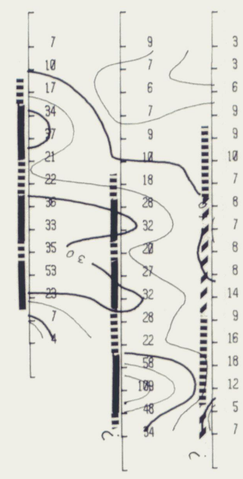
SCALE = 1 : 5000 DATE : OCT 1989
SURVEY BY : SW/GS NTS : 105F/9
FILE : Mketzal.ext

Amerlin Exploration Services Ltd.

2000E 2100E 2200E 2300E 2400E 2900E 3000E 3100E 3450E

5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N









0928 20

Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6
IP Anomaly Class :
Strong
Moderate
Weak
Array :Dipole-Dipole.x=25m,n=1
Contour Interval:7.5.10.20 etc. msec

100m 50m 0m 100m 200m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

328

PLATE 19

MOUNTAIN PROVINCE MINING INC.

# INDUCED POLARIZATION SURVEY

( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89
SURVEY BY : M.ST.P. NTS : 105F/9
FILE: MIP1KT Dwg.No.IPP-3024M1

Amerlin Exploration Services Ltd.




To Accompany Report by:
M.St.Pierre and P.A.Cartwright

Surveyed By PACIFIC GEOPHYSICAL

329

PLATE 20

# MOUNTAIN PROVINCE MINING INC.

## INDUCED POLARIZATION SURVEY

( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON

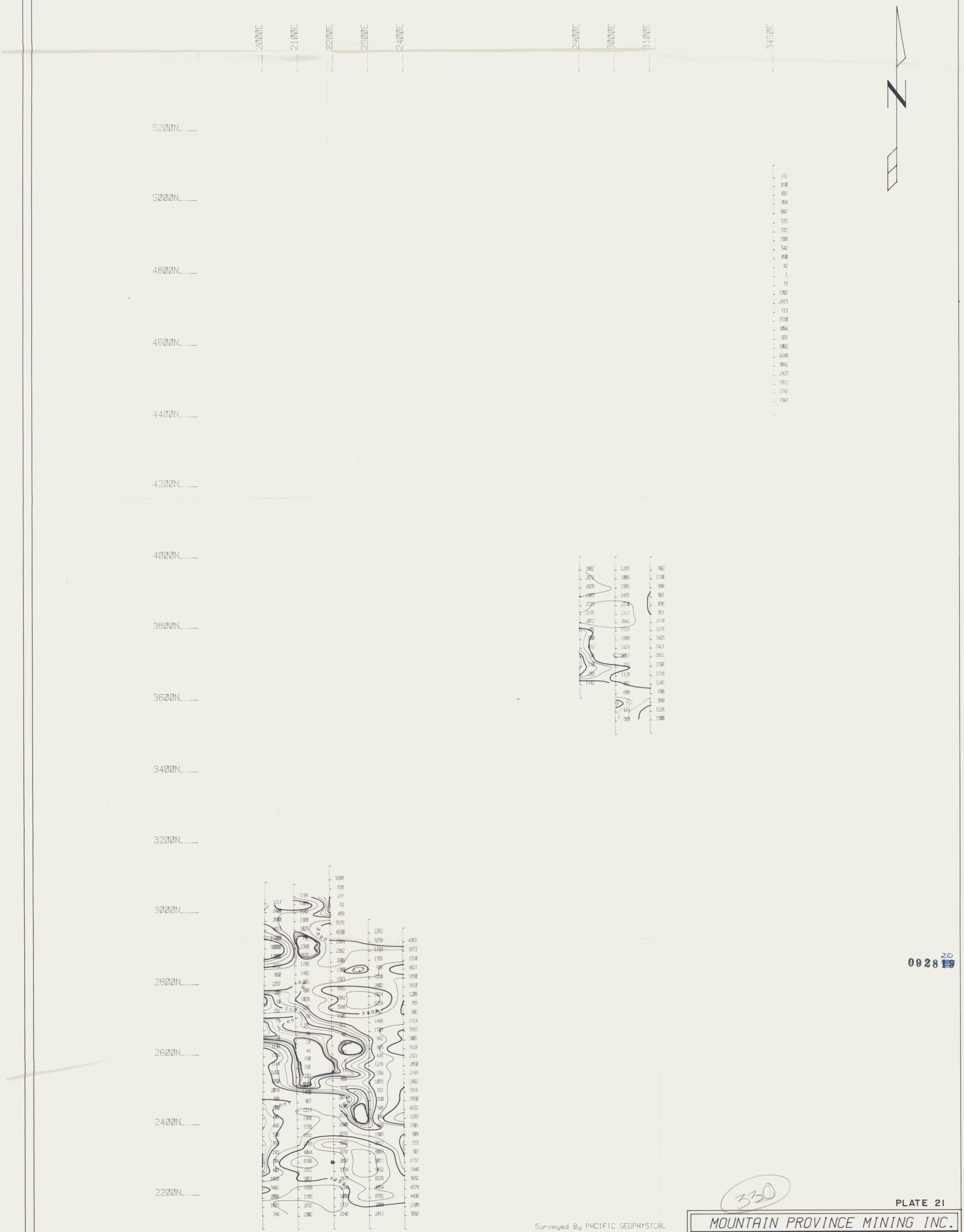
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89

SURVEY BY : M.ST.P. NTS : 105F/9

FILE: MIP2KT Dwg.No.IPP-3024M2

Amerlin Exploration Services Ltd.




Surveyed By PACIFIC GEOPHYSICAL

Instrument : IP6

Array :Dipole-Dipole.x=25m.n=1
Contour Interval:7.5.10.20 etc. Ohm-m

100m 50m 0m 100m 200m

To Accompany Report by:
M.St.Pierre and P.A.Cartwright

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PLATE 21

# MOUNTAIN PROVINCE MINING INC.

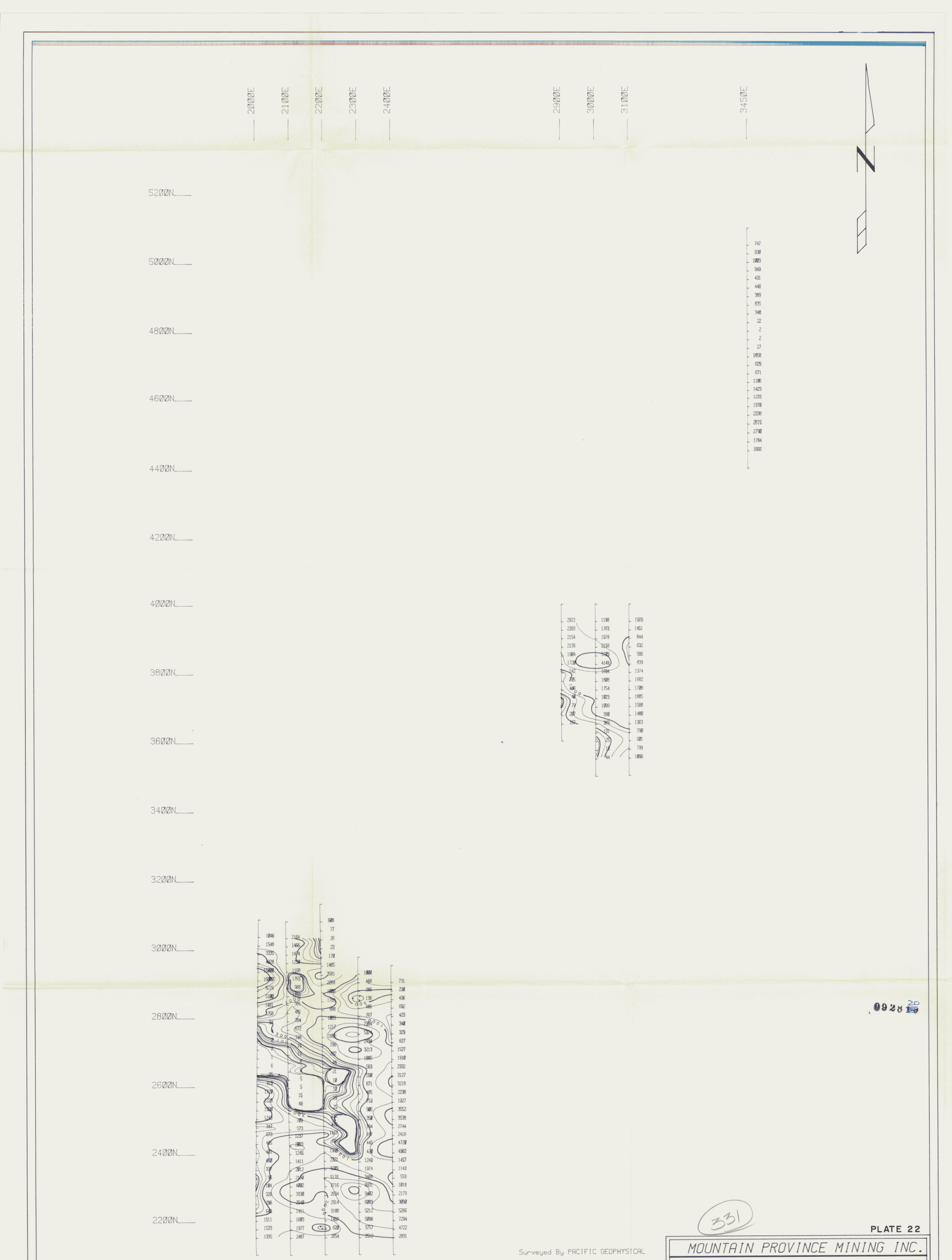
## RESISTIVITY SURVEY

( FILTERED CONTOUR PRESENTATION )

KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.

SCALE = 1: 5000 DATE : SEPT/OCT 89
SURVEY BY : M.ST.P. NTS : 105F/9
FILE: MR01KT Dwg.No.IPP-3024R1

Amerlin Exploration Services Ltd.


2000E
2100E
2200E
2300E
2400E
2900E
3000E
3100E
3450E
5200N
5000N
4800N
4600N
4400N
4200N
4000N
3800N
3600N
3400N
3200N
3000N
2800N
2600N
2400N
2200N
2000N
N
747
930
1003
949
431
446
389
835
348
22
2
2
27
1858
629
671
1106
1423
1239
1370
2398
2615
2790
1784
1666
2972
2393
2154
2139
1904
1198
1763
1978
4149
1694
1808
1754
1023
1099
990
569
1451
844
632
586
839
1374
1682
1708
1885
1568
1480
1363
790
601
799
1086
608
77
26
23
170
1485
3581
2268
1763
1046
1548
3335
1474
1168
731
230
436
692
423
340
329
627
1527
1910
2332
3127
3218
2238
1927
3552
3538
2744
2416
4720
4962
1457
1143
559
1818
2179
3090
5266
7294
4722
2831
Surveyed By PACIFIC GEOPHYSICAL
Instrument : IP6
Array :Dipole-Dipole.x=25m.n=2
Contour Interval:7.5.10.20 etc. Ohm-m
100m 50m 0m 100m 200m
To Accompany Report by:
M.St.Pierre and P.A.Cartwright
0928
331
PLATE 22
MOUNTAIN PROVINCE MINING INC.
RESISTIVITY SURVEY
( FILTERED CONTOUR PRESENTATION )
KETZA PROJECT:WHITE CLAIMS,WATSON LK. M.D.YUKON
BASELINE AZIMUTH : 90 Deg.
SCALE = 1: 5000
DATE : SEPT/OCT 89
SURVEY BY : M.ST.P.
NTS : 105F/9
FILE: MR02KT
Dwg.No.IPP-3024R2
Amerlin Exploration Services Ltd.