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SUMMARY REPORT OF EXPLORATION ON THE MR CLAIM GROUP

Watson Lake Mining District,
Meister River Area, Y.T.
NTS: 105-B-1,-8; Latitude 60°17'N; Longitude 130°18'W

091518 DECEMBER, 1983

VOLUME I OF II

This report consists of the following volumes:

VOLUME I - Text (also includes Tables, Figures & Appendices)

VOLUME II - Plates (plates 1-15 inclusive)

SUMMARY REPORT OF EXPLORATION ON THE

MR CLAIM GROUP

Watson Lake Mining District
Meister River Area, Yukon
Latitude 60°17'N; Longitude 130°18'W

FOR

REGIONAL RESOURCES LTD.
Vancouver
British Columbia

AND

GETTY CANADIAN METALS, LIMITED
Vancouver
British Columbia

BY

M.H. Sanguinetti, P.Eng.
Geologist

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

CORDILLERAN ENGINEERING
1418-355 Burrard Street
Vancouver, B.C. V6C 2G8

December 12, 1983

CLAIMS	MR #1-390 inclusive
GRANT NUMBERS	YA66451-66586, YA66587-66600, YA66603-66610, YA66797-66804, YA67385-67450, YA69414-69559, YA70394-70407
LOCATION	97 km (60 miles) west of Watson Lake, Yukon Territory, NTS 105B-1,-8
WORK PERIOD	May 15th to October 2nd, 1983

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1.0 SUMMARY AND CONCLUSIONS

The MR property consists of 390 full-sized claims in the Watson Lake Mining District (NTS: 105B1,8) 97 kilometres (60 miles) west of Watson Lake, Yukon Territory. Initial staking (MR 1-164) was undertaken in July and August, 1981 with subsequent staking in October, 1981 (MR 165-230), in January 1983 (MR 231-376) and in August, 1983 (MR 377-390). All claims were acquired by Cordilleran Engineering on behalf of Regional Resources Ltd. The property is under an option agreement to Getty Canadian Metals, Limited.

The MR claims cover both subalpine and forested terrain. Relief is low to moderate, with rolling hills throughout much of the property. Rock exposure is moderate at higher elevations but poor in the lower spruce and pine-covered terrain.

A bulldozer road (19 kilometres) suitable for 4 wheel drive vehicles was constructed from an existing road near the headwaters of Spencer Creek to a campsite near the West Showing. The camp, diamond drill, fuel and supplies were mobilized over this road.

Work conducted on the property in 1981 and 1982 consisted of grid preparation, geological mapping, prospecting, geochemical sampling, hand trenching and airborne electromagnetic, resistivity and magnetometer surveys (Dighem II). During the 1983 field season additional grid preparation, geochemical sampling, geological mapping and prospecting were conducted in addition to ground geophysical surveys (gravity, IP and EM), backhoe trenching, photo control surveying and diamond drilling.

The property is underlain by a series of metamorphosed sediments of the Omineca Crystalline Belt. Uppermost Precambrian to Lower Cambrian miogeoclinal sediments are exposed in a series of southeast plunging folds. Pleistocene to Recent glaciation has resulted in extensive till cover. Mapping and core logging have defined four basic geological units; minor litho-units, not previously seen in outcrop were observed in trenches and in core. The four main units are: the Windermere Supergroup (PLЄ1), quartzite; Lower Clastic or Transitional Group (LЄ2), sandstone, mica schist, quartzite; Upper Clastic or Phyllite Group (LЄ3), carbonates, siltstone schists, oxide; and the Atan Group (LЄ4), carbonates.

Two zones of mineralized outcrop have been located to date. The East Zone mineralization consists of disseminated to laminated pyrite, sphalerite and galena in argillaceous limestone, and small galena cobbles within limonitic, sericitic phyllite. Significant silver, lead and zinc values occur in this apparently stratiform mineralization. With the exception of geophysical tests, no exploration was conducted on the East Zone in 1983. The West Zone mineralization consists of layered iron and manganese oxides containing significant zinc, silver and lead values. This oxide, which has been exposed by 17 backhoe trenches in 3 segments over a total strike length of 1000 metres, has a maximum true thickness of 18 metres. Sulphide mineralization, as sphalerite or galena, was noted in only 5 trenches. The galena usually occurs as rounded cobbles encrusted with sericitic "clay" oxide. In trench 11A, submassive silver-rich galena occurs in faulted, pale grey limestone over a 3 metre by 2 metre area. This mineralization assayed 76.0 oz/ton silver and 67.32% lead. Five diamond drill holes were completed in the West Zone to define stratigraphy and to intersect the projected mineralized zone below the level of oxidation. Minor oxide was intersected in all holes, however, no sphalerite or galena, sufficient to account for the quantity of oxide present on surface, was seen in any hole. Small amounts of disseminated pyrite and pyrrhotite and narrow quartz veins bearing minor galena and sphalerite were intersected in hole MR 83-5.

Float occurrences of oxide mineralization were noted in the Farwest Zone and on the northeast side of the property. Trenching in the Farwest Zone failed to locate any oxide mineralization in outcrop and a moderately large geochemical soil anomaly was prospected and trenched without reaching bedrock.

Backhoe trenching of the 1982 geochemical anomalies in the South Zone failed to reach bedrock in most pits. Results of soil samples collected in these pits confirmed the existence of a strong zinc-lead-silver anomaly (maximum values of 13% zinc, 250 ppm lead, 2.3 ppm silver in pit G-38) over a width of at least 800 metres. Attempts to move the D-6 bulldozer and the backhoe into the East Zone were unsuccessful.

In all cases, known mineralization and geochemical anomalies are hosted within or adjacent to the contact between carbonates and graphitic, locally calcareous, schists (phyllites) of Lower Cambrian age. Geological and geophysical evidences suggest that this favourable unit can be traced over 13 kilometres of strike length. Similarities exist between the MR property and both the Faro Zn-Pb-Ag district in central Yukon and the Midway Ag-Pb-Zn deposit in northern British Columbia. The host unit for mineralization at both Faro and MR are similar in that at Faro the host is the Transition Zone of Mt. Mye Formation, a graphitic, locally calcareous and/or silty phyllite (schists) within a sequence of schists, phyllites and marble of Lower Cambrian age. Similarities in sericitic alteration and deformation history are indicated in core and outcrop. The genesis of the MR mineralization may be comparable to that of the Lower Zone at Regional Resource's Midway property. This would entail metal-rich hot water migrating from a magma body through permeable zones in a host rock and becoming trapped against an overlying impermeable cap. At Midway the permeable host is the McDame limestone and the caprock is Lower Sylvester shales while at the MR the (oxide) mineralization occurs at a carbonate-phyllite (schist) contact.

The favourable age and geological setting further enhance the high probability of locating economic massive sulphides on the MR property.

Continued exploration in the form of ground geophysics, trenching and rotary percussion drilling is warranted to further evaluate the South, East, Farwest and West Zones on the Meister Property.

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

Respectfully Submitted,

CORDILLERAN ENGINEERING

Michael H. Sanguinetti, P.Eng.

Geologist

Vancouver, B.C.

December, 1983.

2.0 INTRODUCTION

This report summarizes the results of the 1983 zinc-silver-lead exploration program carried out on the MR claim group on behalf of Regional Resources Ltd. and Getty Canadian Metals, Limited. The property comprises 390 full-sized mineral claims located near Meister Lake, 97 kilometres west of Watson Lake, Yukon Territory. Field work was conducted by Cordilleran Engineering during the period May 15th to October 2nd, 1983. The program consisted of grid preparation, geochemical sampling, prospecting, surveying, road construction, geological mapping, geophysical test surveys, backhoe trenching and diamond drilling. Project expenditures from January 1st, 1983 to December 31st, 1983 approximated $511,000.

Previous exploration in 1981 and 1982 had discovered significant zinc-silver-lead mineralization at two locations within the property. In the East Zone, Zn-Ag-Pb mineralization of an apparent stratiform nature was located by prospecting and surface trenching. Selected grab samples have assayed up to 52% lead and 8.46 oz/ton silver. In the West Zone, where much of the 1983 program was concentrated, a wide manganese-iron oxide zone has been exposed intermittently along a strike length of 1000 metres. Grab samples of this material have yielded assays exceeding 40% zinc, 6 oz/ton silver and 2% lead. Channel samples across 14 metres of the zone returned an average of 12.33% zinc + lead and 1.39 oz/ton silver. Minor amounts of silver-rich galena, sphalerite and pyrite were located at isolated spots within the trenches. The extent of the geochemical soil anomalies and geological mapping suggest that the West Zone may have an overall strike length exceeding 2 kilometres.

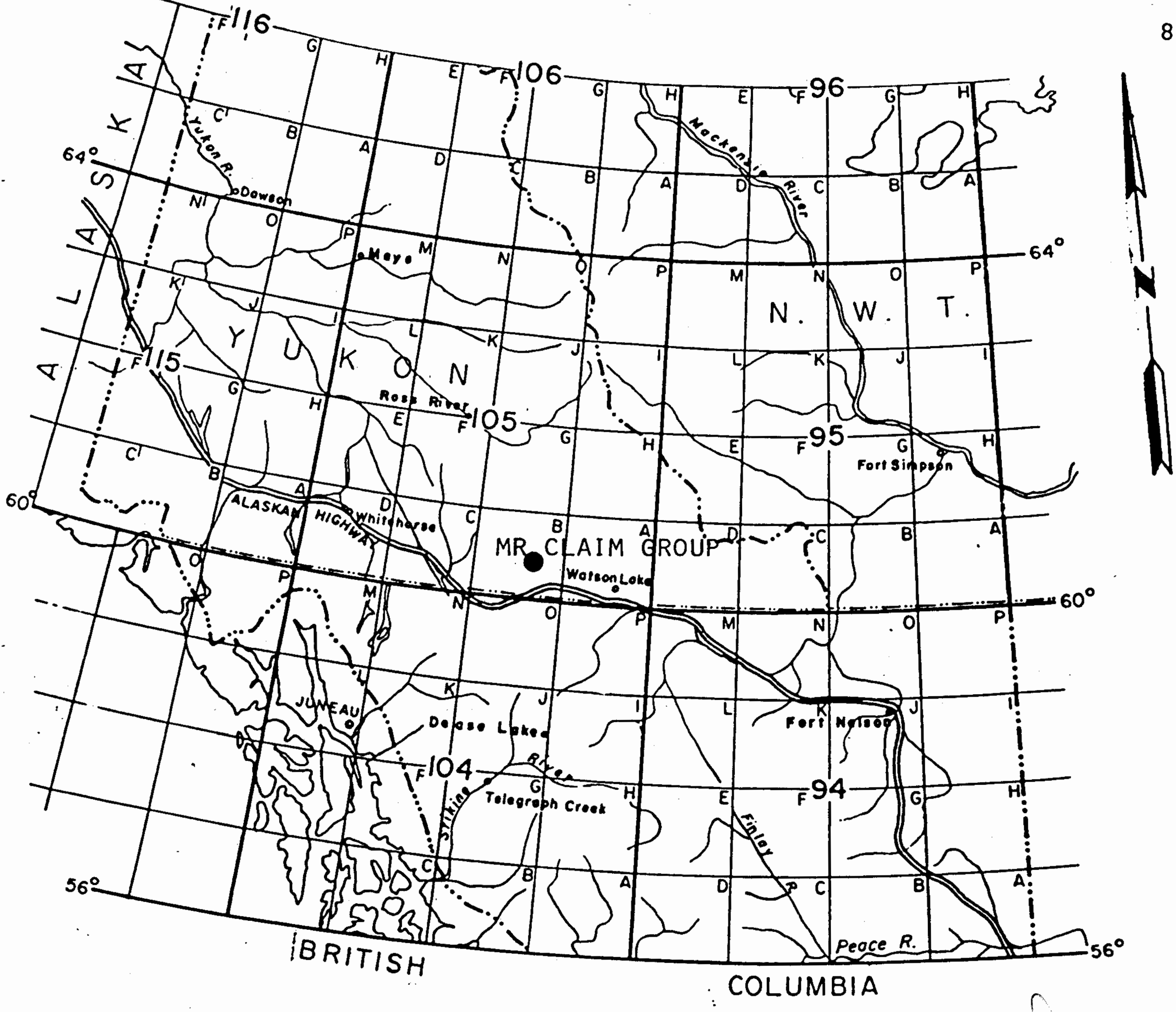
In addition to the above mineralized occurrences, coincident zinc, silver and lead geochemical anomalies have been located in the South, Farwest and North West Zones. These anomalies were partially investigated by prospecting and backhoe trenching.

In all cases, known mineralization and geochemical anomalies are hosted within or adjacent to the contact between carbonates and graphitic, locally calcareous, schists (phyllites) of Lower Cambrian age. This unit has been traced by geological mapping and airborne electromagnetic and resistivity anomalies over 13 kilometres of strike length, thus highlighting the excellent potential for locating economic mineralization on this property. Continued exploration is warranted for 1984.

3.0 LOCATION AND ACCESS

(Figure 1)

The MR claim group is located immediately south and east of Meister Lake at latitude 60°17' north and longitude 130°18' west. It lies 14 kilometres (9 miles) from Mile Post 690 on the Alaska Highway. An existing cat road, terminating at the headwaters of Spencer Creek, provides access to within about 10 kilometres of the claims. Nineteen kilometres of new cat road was constructed from this existing road to the campsite near the kill zones on the west side of the property. This road was completed by July 3rd. Prior to this time, access was by helicopter or by float plane to a fly camp beside Meister Lake.



M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
AND
REGIONAL RESOURCES LTD.

LOCATION MAP
MR CLAIM GROUP
Watson Lake Mining District, Y.T.

SCALE: 1" = 125 MILES

BY
CORDILLERAN ENGINEERING

1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8
December, 1983

FIGURE 1

4.0 PROPERTY

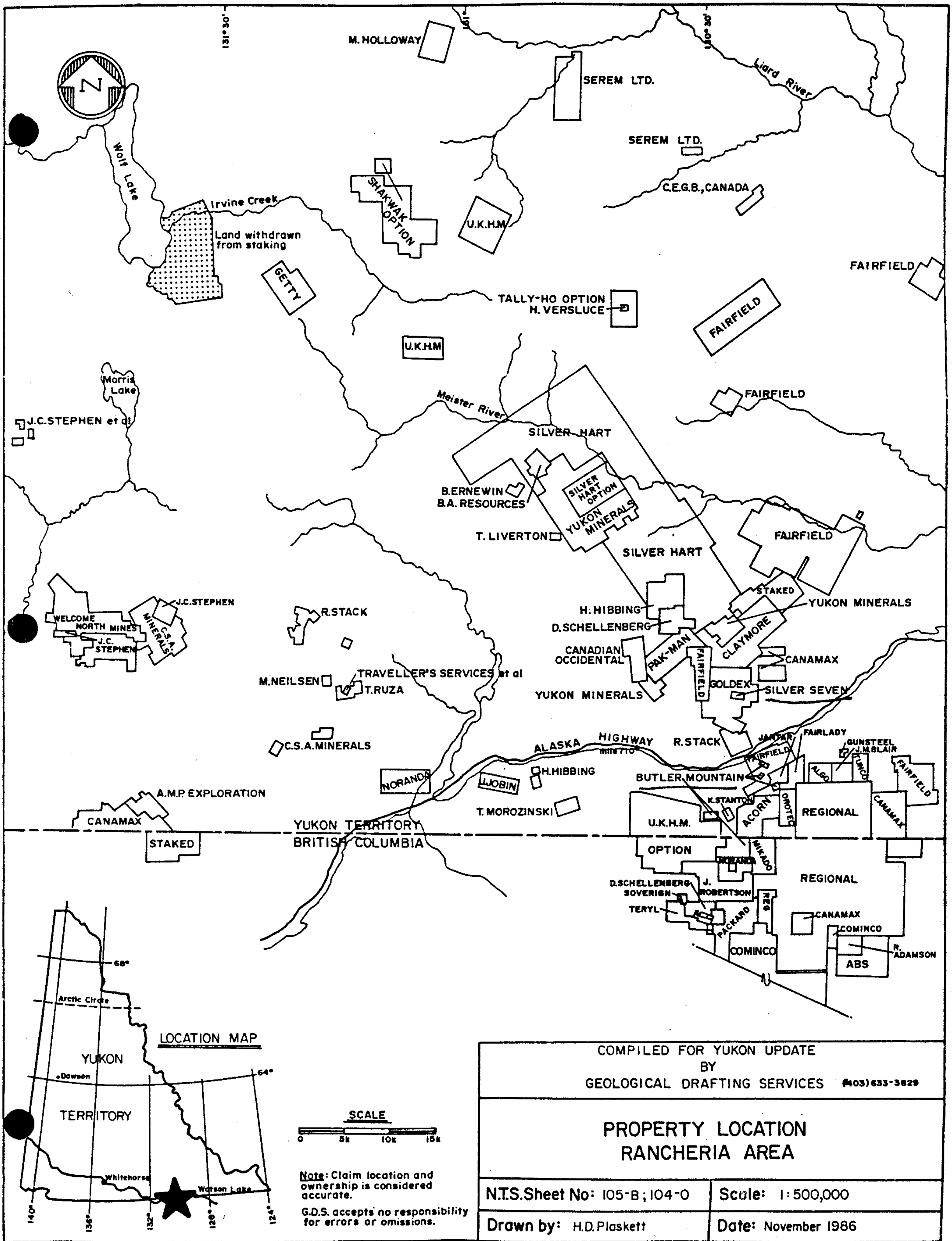
(Figure 2, Appendix "A")

The MR claim group consists of 390 full-sized mineral claims in the Watson Lake Mining District. Title to the claims is held by Regional Resources Ltd. Grant numbers and current expiry dates are as follows:

TABLE I CLAIM DATA

CLAIM NAME	GRANT NUMBER(S)	EXPIRY DATE(S)
MR 1-134	YA 66451 - 66584	31 Dec. 1986
MR 135-136	YA 66797 - 66798	31 Dec. 1986
MR 137-150	YA 66587 - 66600	31 Dec. 1986
MR 151-152	YA 66799 - 66800	31 Dec. 1986
MR 153-160	YA 66603 - 66610	31 Dec. 1986
MR 161-164	YA 66801 - 66804	31 Dec. 1986
MR 165-230	YA 67385 - 67450	31 Dec. 1985
MR 231-376	YA 69414 - 69559	26 Jan. 1984
MR 377-390	YA 70394 - 70407	16 Sept.1984

During the 1983 field season, geological, geophysical and geochemical surveys, in addition to diamond drilling, trenching and road construction were conducted over the property. A portion of the work has been applied for assessment.



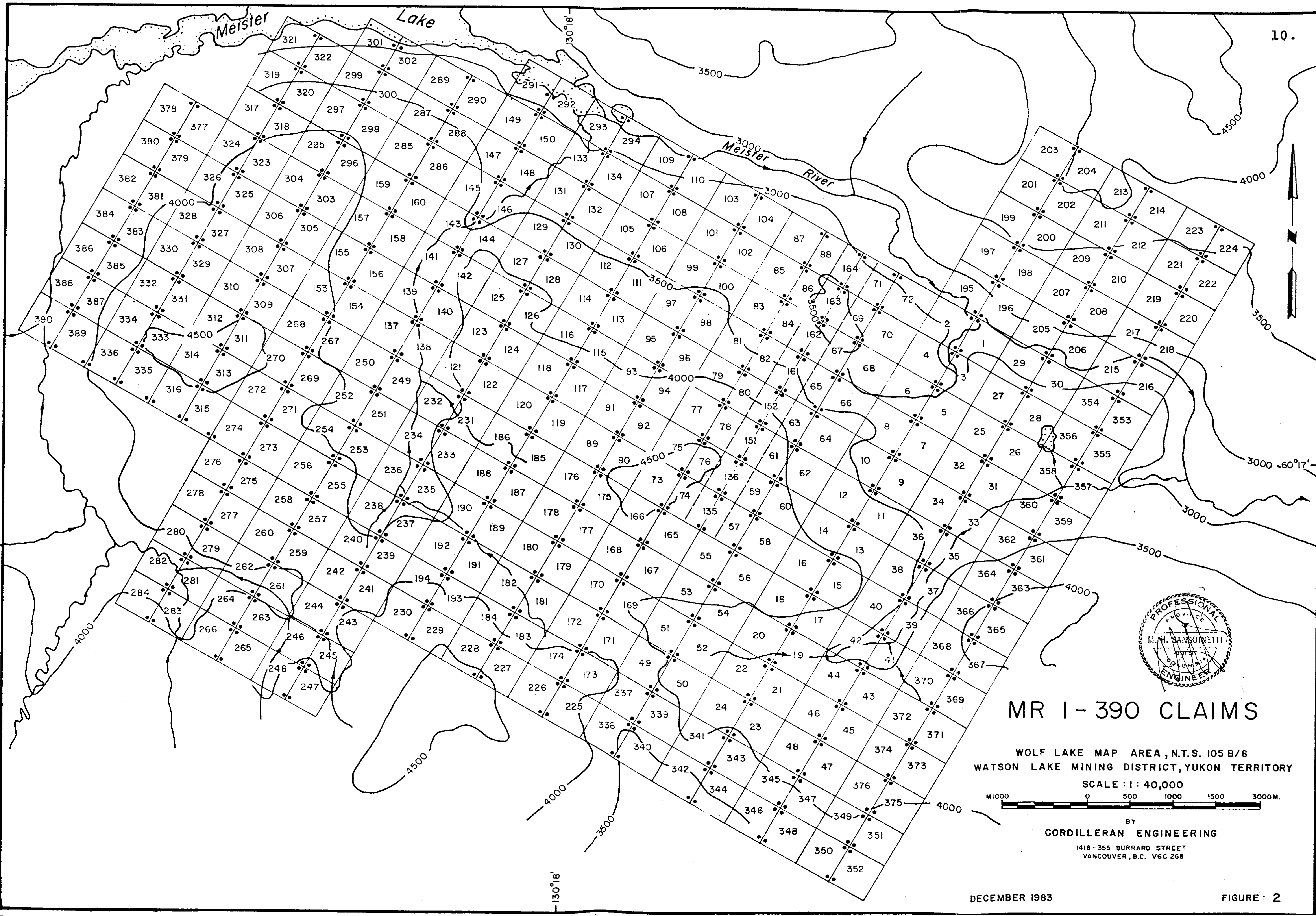
Note: Claim location and ownership is considered accurate.

G.D.S. accepts no responsibility for errors or omissions.

COMPILED FOR YUKON UPDATE
BY
GEOLOGICAL DRAFTING SERVICES (403) 633-3829

PROPERTY LOCATION
RANCHERIA AREA

N.T.S.Sheet No: 105-B ; 104-O	Scale: 1:500,000
Drawn by: H.D.Plaskett	Date: November 1986



MR 1-390 CLAIMS

WOLF LAKE MAP AREA, N.T.S. 105 B/8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE : 1 : 40,000

BY
CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

M.H. SANGUINETTI

DECEMBER 1983

FIGURE : 2

5.0 OPERATIONS

The 1983 program was designed to evaluate the West Zone mineralization by backhoe trenching, geophysics and diamond drilling; and to complete the geochemical soil sampling on the existing central and northern claims as well as the newly staked claims on the west side. Field work was started on June 9th and was ended by deep snow on September 29th. The 1983 program comprised:

GRID PREPARATION:	Baseline: 19 kilometres of baselines and 21.65 kilometres of geophysical lines were cut, secant chained and picketed by contract crews (C.R. Eastman). Crosslines: Approximately 70 kilometres of crossline were secant chained and flagged. Stations were marked at 50 metre intervals on lines established at 200 metre spacings and, in detailed areas, at 25 metre intervals on lines at 100 metre spacing.
GEOCHEMISTRY:	Totals of 2532 soil, 98 stream sediment, 6 water and 93 rock chip samples were collected from grid stations, backhoe pits and at irregular intervals within the grid system.
GEOPHYSICS:	Gravity: A reconnaissance gravity survey, consisting of 3 lines in the East Zone, 4 lines in the South Zone and 7 lines in the West Zone, was conducted by Ager, Berretta & Ellis, Inc., consulting geophysicists.

GEOPHYSICS: (Cont'd)	Electromagnetic Surveys: Single test lines on the West Zone (L2800E) and on the East Zone (L6200N) were surveyed by Getty personnel using MaxMin and VLF systems. Induced Polarization: A single test line (L2800E) in the West Zone was surveyed by Phoenix Geophysics Ltd. utilizing various electrode spacings.
ROAD CONSTRUCTION:	Approximately 19 kilometres of 4 wheel drive road was constructed from the existing Spencer Creek road to the campsite. A further 3 kilometres of 4 wheel drive road was constructed over the West Zone. Approximately 15 kilometres of cat trail was cleared to provide access for the D-4 mounted backhoe to geochemical anomalies on other areas on the property.
TRENCHING:	Seventeen deep trenches were dug by backhoe in the West Zone along the trace of the mineralized oxide zone. More than 50 small pits were dug over the remainder of the property to test geochemical anomalies and to determine underlying lithologies.
DIAMOND DRILLING:	Five NQWL holes, totalling 1076.6 metres, were drilled in the West Zone between August 13th and September 6th, 1983.
PROSPECTING:	The Northwest, West and Southwest portions of the MR claim block which are underlain by favourable metamorphic units were partially prospected.
GEOLOGICAL MAPPING:	The Western and Southern portions of the property were mapped at scales of 1:5000 and 1:10,000 using grid lines and a new airphoto-mosaic base for control. Portions of the central claim area were remapped.
SURVEYING:	A photo control survey covering 11 stations was carried out preparatory to aerial photography. Twenty-two other airphoto targets were set out.

6.0 GEOLOGY

(Plates 1, 2)

The MR property is located in metamorphosed autochthonous strata of the Omineca Crystalline Belt at the northern extremity of the Cassiar Mountains. Here, uppermost Precambrian to Lower Cambrian miogeoclinal sediments deposited on the western margin of the North American Craton are exposed in a series of southeast-plunging folds. A Cretaceous quartz-monzonite stock intrudes these sediments approximately 1.6 kilometres (1.0 mile) north of the claim group. Pleistocene to Recent glacial activity has resulted in extensive till cover at lower elevations. Mineralization at the MR property is hosted by graphitic, locally calcareous phyllites of Lower Cambrian age.

6.1 STRATIGRAPHY

(Figure 3, Appendix "I")

Mapping on the Meister property and logging of diamond drill core has defined the four basic geological units previously mapped. Minor litho-units, not previously seen in outcrop, were observed in trenches and in core.

LATE PROTEROZOIC and/or LOWER CAMBRIAN

Unit PLЄ1 Windermere Supergroup: Quartzite

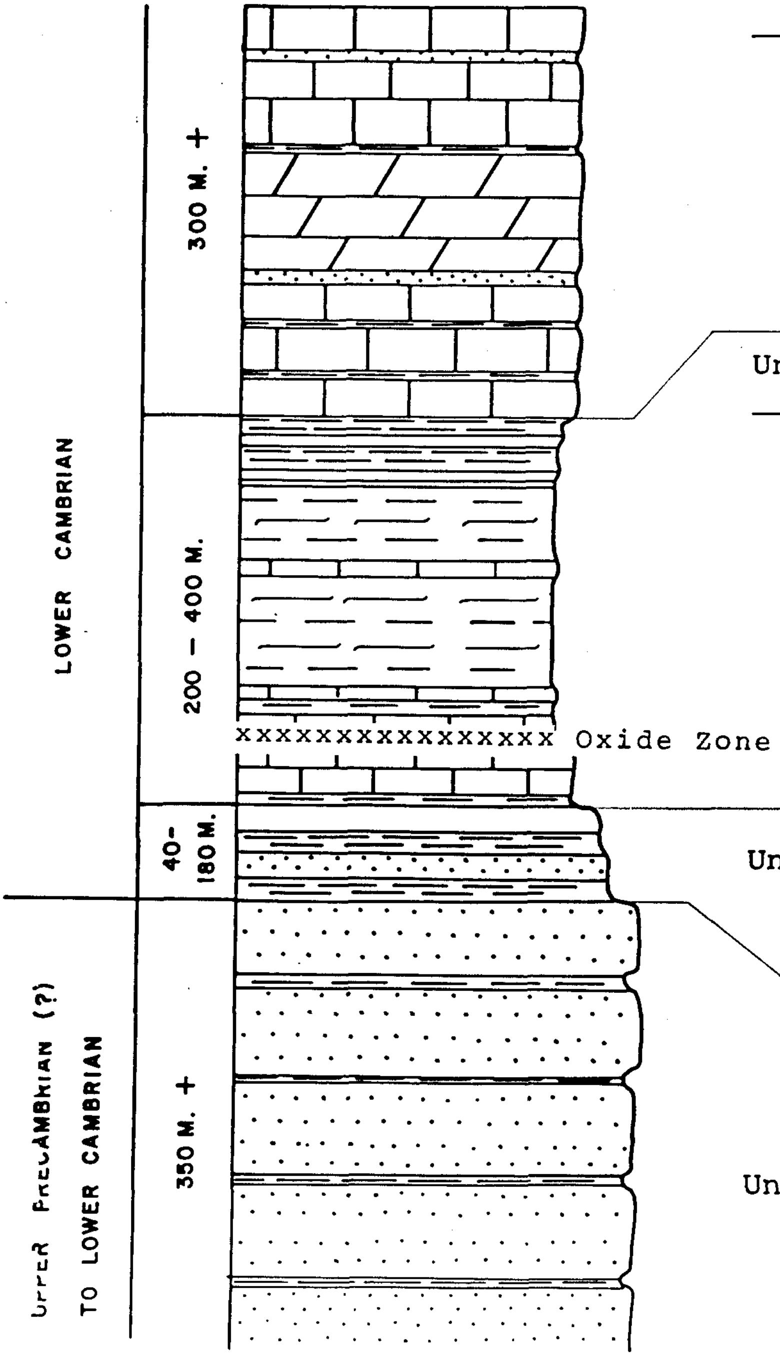
The dominant lithology of this unit is light grey to brown weathering, thick-bedded to massive, well-sorted, "clean" white quartzite. Thin interbeds of phyllite and quartz-mica schist are common. In addition, rusty-weathering, micaceous, "dirty" quartzite is locally present. Remnant graded bedding is preserved in isolated exposures. In many areas, mariposite(?) occurs as disseminated flakes and a bright green "stain" on fracture planes.

This relatively clean orthoquartzite appears to be correlative to the upper part of the Late Proterozoic to Lower Cambrian "Grit Unit" or Windermere Supergroup exposed throughout much of the Yukon and northeastern B.C. In excess of 350 metres of this resistant, cliff-forming unit is exposed on the MR claims.

LOWER CAMBRIAN

Unit LЄ2(LC): Lower Clastic Sandstones, interbedded mica schist, quartzite

The lower clastic sequence of rocks consists of sandstones or very arenaceous schists, interbedded with mica schists and quartzite.



Unit ℓЄ$_4$

Atan Group:
Limestone, Dolostone and Marble.

Platy to blocky limestone and buff weathering dolostone. Coarsely crystalline facies common. Frequent phyllite laminae. Local thin calcarenite beds.

Unit ℓЄ$_3$(UC)

Upper Clastic:
Limestone/Marble
Schist

Well foliated, ferruginous schist, locally calcareous, graphitic, silty and/or sericitic, interbedded to interlaminated with limestone and/or marble. Minor calc-schist and quartz biotite schist. Hosts Fe and Mn oxides and Zn-Pb-Ag, mineralization.

Unit ℓЄ$_2$(LC)

Lower Clastic:
Sandstone, Mica Schist, Quartzite.

Micaceous, "dirty" quartzite interbedded to interlaminated with pale green to black, arenaceous schist. Local quartz-mica schist.

Unit PℓЄ$_1$

Windermere Super-Group ("Grit Unit"): Quartzite

Thick bedded, "clean", white quartzite. Minor thin interbeds of phyllite and quartz-mica schist. Local graded bedding.

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MR CLAIM GROUP

STRATIGRAPHIC SECTION

FIGURE 3

Unit LЄ2(LC) : Lower Clastic (Cont'd)

In outcrop these litho-units are clearly arenaceous, banded, with a very gritty, sandy feel when touched. The micas appear to be muscovites and possibly biotites in the sandstones and schists of this sequence. These interbedded schists and sandstones are probably high in quartz and there is,in some places, abundant limonite. These rocks are laminated in appearance with alternating dark grey and brownish-white bands or lenses.

In some cases, the sandstones and/or arenaceous schists contain a green mineral, possibly mariposite. Minor sulphides as pyrite were observed in this sequence. In drill core some tourmaline(?) and/or zircons(?) were observed.

The quartzites, which are interbedded in this sequence, are a "dirty" or impure type, grading into a more pure quarzite lower in the section. Quartzite also forms a banded unit with alternating grey to white bands. Limonite is found in the bands of more muscovite-rich laminae. Quartz is dominant over micas throughout the quartzites, thus exhibiting a weakness in foliation designating it as quartzite. Minor mineralization as goethite(?) and pyrite(?) can at times be found in the quartzite material.

LOWER CAMBRIAN

Unit LЄ3(UC): Upper Clastic

Mica Schist, carbonate, siltstone, quartzose siltstone, calcareous ferruginous schist

Mica Schist: This unit is not too prevalent in core and is difficult to define as a mappable unit in outcrop. It may be very closely related to the quartzose siltstones and/or ferruginous schists. The rock is light to dark grey in colour with muscovite(?) laminae and at times contains granular quartz. Minor disseminated pyrite is sometimes present.

Carbonate: The carbonate rocks of the upper clastic appear to be primarily marbles, with some limestones and dolostones.

The marbles are a light grey to white colour with alternating bands of grey and white; the grey colour being thin laminae of probably "phyllitic" and silty horizons.

In outcrop, near the trenches of the West Zone, a "dirty marble" with large amounts of manganese (with varying amounts of rhodochrosite) lies adjacent to the clean marbles.

Unit Lϵ3(UC): Upper Clastic (Cont'd)

Some marbles are dolomitized which imparts an overall brown colour. Quite often there is pervasive limonite staining and hair-line fractures of limonite. The carbonate veining seen in some dolostones, especially in core, would appear to cut through earlier limonite veinlets. These carbonates appear not to contain any significant sulphide mineralization.

Oxide: This unit is usually found between the hanging wall schists ("phyllites") and the footwall carbonates (usually marbles) in the West Zone of the Meister property. It has a strike length of 1000+ metres, and a strike direction of roughly NW-SE. The width of this oxide zone varies from 0.0 metres to 18.0 metres, illustrating a pinch and swell along strike.

In the trenches the oxide zone appears to have a "pseudo-bedding" or layering? which imparts the impression of a vertical structure(s) coming from the floor of the trenches, and flattening as it approaches the surface. At times, this pseudo-bedding grades almost imperceptibly into the overlying glacial clays and tills.

The colour of the oxide material varies from deep purples, orange-browns, orange-reds, red, black-brown, and black, with these colours occurring as alternating bands.

Oxide material is, at times, in the form of botryoidal hematite and chalcedony(?), vuggy, with solution-like channels(?) and often graphitic looking. Pyrolusite and Wad, hemimorphite and limonite are also found in the oxide zone. Galena and sphalerite were found in varying amounts in trenches 2, 3A, 11, 11A and 13 at different depths of their respective trenches.

Near the oxide-hanging wall schist contact several quartz veins are found in most trenches. When oxidized the quartz appears in a saccharoidal form, at times limonitic but without sulphides. These quartz veins are either discordant or concordant(?) to the bedding of the hanging wall schists occurring either in the schists and/or within the oxide zone.

Oxide material also occurs in minor amounts within other parts of the upper and lower clastic units, as was evidenced by their intersections in the drilling.

Siltstone: This rock from outcrop and core appears as a very fine grained aphanitic unit characterized by minor, widely spaced banding of apparent relic bedding. It is generally dark grey to light grey in colour, at times calcareous, with muscovite on the bedding planes. Locally the rocks look argillaceous and were previously called "phyllites", but thin

Unit LЄ3(UC): Upper Clastic (Cont'd)

section examination of core has narrowed the unit down to more of a fine-grained muscovite schist and/or quartz calcite schist with some chlorite. This unit is not well exposed in outcrop. Often it is limonitic and contains minor pyrite.

Quartzose Siltstone: This unit is a well laminated, dark to light grey colour with lesser amounts of white-grey sericitic bands. This laminated unit at times contains smears of hematite between the bedding planes of the dark and light laminae. Quite often it contains quartz-calcite bands parallel to and along bedding planes. It appears to be a very disturbed rock and texturally is heterogeneous. The foliation of this unit is very crumpled. It at times contains pyrite and limonite.

Calcareous Ferruginous Schist: This litho-unit is characterized megascopically by alternating fine bands of brown to dark grey-tan coloured laminae. In some instances the rock is quite carbonaceous. The unit is known locally as "tiger rock". In many cases, the rock shows undisturbed parallel laminations of varying widths. This banding characteristic may be relic bedding, which in many instances may be undisturbed and undeformed.

There is megascopic evidence of shearing parallel to the layering, with additional evidence of drag folding, coupled with abundant visual evidence of a series of "S" and "Z" folds. Excellent examples of this complex structure can be seen in outcrop near DDH #3 and 4, and in most of the excavated large trenches of the West Zone. In some cases this unit may be quite calcareous. The rock has a high proportion of sericite, muscovite, quartz, calcite and limonite. In some cases it is quite siderite rich. This unit also contains some hematite as well as minor disseminated pyrite (which at times shows no consistent relation to the rock fabric) and minor disseminated sphalerite(?).

It appears there are at least 3 phases of foliation exhibited by this unit with some boudinage occurring. Some outcrops and core samples show a well developed fold axis and shearing in a direction perpendicular to the bedding. This unit may be a possible turbidite.

LOWER CAMBRIAN

Unit LЄ4: Atan Group Limestone, dolostone and marble

This carbonate unit can be subdivided into two members. The most prominent component is grey-brown weathering, platy to blocky, white to light grey limestone. Also present is buff weathering, blocky to massive, light grey to brown dolostone.

Unit LЄ4: Atan Group (Cont'd)

In both members, frequent silvery-grey to black phyllitic laminae and local calcarenite horizons were observed. In addition, coarsely crystalline varieties of both limestone and dolostone are common. These recrystallized facies grade laterally and vertically into micro-crystalline carbonate and do not appear to be restricted to one specific horizon or location on the property.

This upper unit is probably equivalent to the Lower Cambrian Atan Group exposed in northern B.C. The contact with the underlying phyllite and limestone/marble (unit LЄ3) is gradational. In excess of 300 metres of LЄ4 is exposed on the MR property.

6.2 STRUCTURE

Meta-sediments exposed on the MR property have undergone at least two major stages of deformation. Fine-grained phyllitic rocks of unit LЄ3 display a pronounced schistosity (S1) marked by parallel alignment of recrystallized micaceous minerals. This earliest deformation is probably related to burial metamorphism, as the resulting foliation appears to parallel primary compositional layering or bedding (So). Within these pelites, a second strong deformation has produced a tight crenulation folding of the initial schistosity (S1) accompanied by the formation of a prominent axial plane cleavage (S2). This pervasive feature, defined by a parallel alignment of recrystallized micas and remobilized graphite, locally obliterates or transposes the earlier formed schistosity (S1). In addition, there are local, poorly developed indications of at least one later deformation event.

The various lithologies present on the MR property display significantly different responses to these deformational processes. While the micaceous pelites (Unit LЄ3) exhibit a prominent S1 schistosity, this feature is only poorly-developed in other units with a low proportion of micaceous minerals. While all strata have been strongly affected by the second deformational episode, the scale of the resultant folding differs substantially. The relatively competent basal quartzite (Unit PLЄ1) has been folded into a series of broad (kilometre-scale), assymetrical, southeast-plunging anticlines and synclines. In contrast, the relatively incompetent fine-grained phyllitic rocks (Unit LЄ3) display a tight, millimetre to centimetre-scale crenulation folding. The overlying carbonate rocks (Unit LЄ4) have reacted in an intermediate manner, yielding meter-scale folds of a similar orientation. Field measurements indicate that the average fold axis trends towards 165 degrees and plunges at 25 degrees. The accompanying axial plane cleavage (S2) was found to dip moderately to the east.

The carbonates, phyllites and schists of LЄ2 and LЄ3 display complexly folded and fractured structures in diamond drill core. Two stages of deformation are readily noted while suggestions of a third stage are frequently observed in the deformed, compositionally banded lower clastic schists (LЄ3). Correlation of structures from surface to drill core was difficult because of the overlapping of stages. Some local overturning of beds, as on a fold limb or nose, was observed in holes 2, 4 and 5.

A series of steeply dipping to vertical faults which intersect in the central area of the MR claims have combined to elevate the favourable stratigraphy (Unit LЄ3) to surface exposure in the southern and western portions of the property. Without such movement, this phyllitic unit would have remained buried, due to the prominent southeasterly plunge of the folded strata.

7.0 MINERALIZATION

Two Zones of mineralization in outcrop have been located to date. The East Zone mineralization consists of disseminated to laminated pyrite, sphalerite and galena in argillaceous limestone, and small galena cobbles within limonitic, sericitic phyllite. Significant silver, lead and zinc values occur in this apparently stratiform mineralization. Sample results from 1982 of small cobbles of galena from the sericitic phyllite assayed 52% lead and 8.46 oz/ton silver (#7021) while selected grab samples of sulphides from the argillaceous limestone assayed up to 5.35% zinc, 0.44% lead and 0.29 oz/ton silver (#7019) (Sanguinetti & Youngman, 1982). With the exception of geophysical tests, no exploration was conducted on the East Zone in 1983.

The West Zone mineralization consists of layered iron and manganese oxides containing significant zinc, silver and lead values. The oxide has been exposed by trenching in 3 segments over a total strike length of 1000 metres. A maximum true thickness of 18 metres occurs in trench 3. Detailed mapping and sampling of the trenches were conducted (Appendix J). A summary of trench assay results (Table 3) with averages from continuous chip samples of the oxide zone is in the "Trenching" section of this report. In trench 2, sampling of 14 metres (across 9 metres of oxide) averaged 12.01% zinc, 0.32% lead and 1.39 oz/ton silver.

MINERALIZATION (Cont.d)

The oxide mineralization consists of an interlayering and intermixing of siliceous and earthy iron and manganese oxides. The iron oxides are brown, orange, black and purple minerals of which goethite, limonite and hematite (specular, botyroidal and earthy) have been identified. Manganese oxides are primarily black and silvery grey in colour of which pyrolusite (earthy, crystalline and dendritic forms) and psilomelane are probably the principal minerals present.

Sulphide mineralization, as sphalerite and galena, was exposed in 5 trenches. In trench 11A, submassive galena with minor pyrite, quartz and plagioclase feldspar is hosted in pale grey, faulted limestone (Appendix I, polished thin section 15, #190X). A thick layer of sericitic gouge and oxide surrounds the mineralization which is exposed over a 3 metre by 2 metre area. A grab sample of galena and oxide material assayed 76.0 oz/ton silver, 67.32% lead and 0.23% zinc (#93554). No sphalerite was observed associated with this galena occurrence.

In trench 3A (see description, Appendix J) sphalerite occurs as 2 to 3 cm wide, red-brown crystal aggregations within limonitic "nodules" or boundaries. Secondary euhedral calcite occurs with the sphalerite and the whole aggregate appears to lie within a bed or layer, concordant with the enclosing iron-manganese oxide layering and parallel to the footwall carbonate contact. No galena was observed in this trench, assay results for lead are significantly low relative to zinc, silver and manganese in comparison to some of the other trench results.

In trenches 1, 2 and 13, occasional rounded cobbles of galena have been found encased within light brown, limonitic, sericitic "clay" in the oxide horizon. The galena is normally medium to coarsely crystalline and is usually accompanied by limonite, minor pyrite and quartz. No sphalerite was noted in these trenches.

The principal zinc mineral within the oxide horizon is assumed to be hemimorphite [$Zn_4(Si_2O_7)(OH)_2.H_2O$] which occurs in pale green to colourless, crystalline to amorphous coating and layerings within the oxide mineralization. No preference was observed for its favouring the manganese or the iron rich oxide. A comparison of assay results of the oxide material shows no consistent relationship between zinc, lead, silver, manganese, gold and iron values. However, in a few of the trenches a gross relationship appears to exist between zinc and manganese values only.

Five diamond drill holes were completed in the West Zone to define stratigraphy and to intersect the projected mineralized zone below the level of oxidation. Oxide material was intersected in all holes, however, no sphalerite or galena, sufficent to account for the quantity of oxide present on surface, was seen in any hole. In DDH MR83-5 fine disseminated sphalerite (noted only in thin section) occurs within calcareous ferruginous schists of the Upper Clastic Unit at a depth of 254 metres. In addition, minor pyrite and pyrrhotite are also disseminated within this unit (150 - 320m); the pyrite appearing to be strataform. Narrow quartz veins carrying minor galena and sphalerite intersect this calcareous ferruginous schist between 140 and 150 metres in this hole.

Float Occurrences of oxide mineralization were noted in the Farwest Zone and on the northeast side of the property north of the Meister River (1982 program). Trenching in the Farwest Zone, in the vicinity of 3500N - 400W, failed to locate

MINERALIZATION (Cont'd)

any oxide mineralization in outcrop. A moderately large geochemical soil anomaly was prospected and trenched (backhoe) without reaching bedrock. (See Trenching section of this report).

The encrustation of mosses and talus by zincian calcite is readily apparent at the "hydrozincite swamp", located 500 metres northwest along strike from the West Zone oxides. A similar phenomenon has been described (Jonasson et al, 1982) at the XY zinc-lead sulphide deposit at Howard's Pass, Yukon. There, zinc-rich spring waters discharge into a series of blanket bogs along the slope, eventually resulting in a crustation and burial of mosses and talus by zincian calcite. Later replacement by smithsonite occurs, which in turn is replaced by hemimorphite.

The genesis of the Meister mineralization may be comparable to that of the Lower Zone at Regional Resources' Midway property. This would basically entail metal-rich hot water migrating from a cooling magma body (in both cases late Cretaceous-Tertiary intrusive activity) and flowing through permeable zones in the host rocks. The type(s) of sulphide(s) that were deposited were mainly a function of how far the solutions had travelled (distance vs temperature). At Midway the sulphide deposition site (especially for lead, zinc and silver) was partly a function of where the open spaces were located, whether tectonic breccia zones or unhealed Devonian karst (?) or reef zones. The main zones of sulphide mineralization occur at or near the top of the McDame limestone because groundwater solutions tend to move upward and were trapped against the overlying shaly cap. At Meister the mineralization also occurs at a carbonate-phyllite (schistose; impermeable cap) contact. The higher silver values in the lead-rich sections suggest a similarity to the many batholith-related(?) silver-lead-zinc deposits in the district. Trenching has shown that the oxide zone is podiform in shape and erratic in size and grade, but it does follow definite linear trends.

MINERALIZATION (Cont'd)

A good possibility exists that the Meister mineralization may, in part, be remobilized into a fault zone(s). Wide gouge zones and the presence of silver-rich galena near trench 11A suggest such channelling. The thickness of the carbonate unit at Meister is considerably less than at Midway, however, almost all of the mineralization at Midway is within 25 metres of the overlying caprock. The intense deformation of the Meister stratigraphy may have been partially the cause of remobilization and concentration of sulphides into lenses or pods within the permeable layer at the carbonate-phyllite contact.

Unit LЄ3 rocks which host mineralization on the MR property have some basic similarities to those in the Transition Zone of the Lower Cambrian Mt. Mye Formation at Cyprus-Anvil's zinc-lead-silver mine at Faro, Yukon. The similarities are in age, lithologies, deformation and, to a certain extent, in the alteration. At Faro this Transition Zone is composed of graphitic biotite-quartz schist, argillaceous calc-silicates, phyllite and marbles interfoliated with biotite schist.

8.0 GEOCHEMISTRY

(Plates 2, 5; Figures 4-7)

Geochemical sampling was conducted on the central and western claim areas extending the work done in 1981 and 1982. A total of 2532 soil samples, 98 stream sediment, 6 water and 93 rock chip samples were collected in 1983. Combined with the 1981 and 1982 sampling totals of 5204 soil, 169 stream sediment, 6 water and 105 rock chip samples have been collected on the MR property. The results to date of all sampling above a significant base values have been plotted on Plates 3, 4 and 5.

Soil samples were collected from the B horizon, stream sediments were taken from the active part of the channels and rock chips were cut from fresh material whenever possible. Each site was marked with flagging. Samples were placed in kraft envelopes and marked with a number corresponding to the sample site. Notes referring to depth, soil type, colour, texture, drainage, slope, stream dimensions and rock type were recorded at each site. Soil and sediment samples were dried and sieved (to -80 mesh) at base camp, then shipped to Bondar-Clegg and Company Ltd.'s laboratory in North Vancouver for analysis. Rock and water samples were shipped untreated. Soils and sediments were analyzed for Ag, Pb and Zn; rocks were analyzed for Ag, Pb, Zn, Mn, Fe, As, Hg and Au; waters were analyzed for Ag, Pb, Zn, Cu, Fe, Mn, As, Ca, K, Mg, Na, HCO_3, SO_4, Cl, S and pH. The

HISTOGRAM OF LEAD RESULTS

MR SOIL SAMPLES

DECEMBER, 1983

NOTE : This histogram includes results from 1981 & 1982

M. H. SANGUINETTI

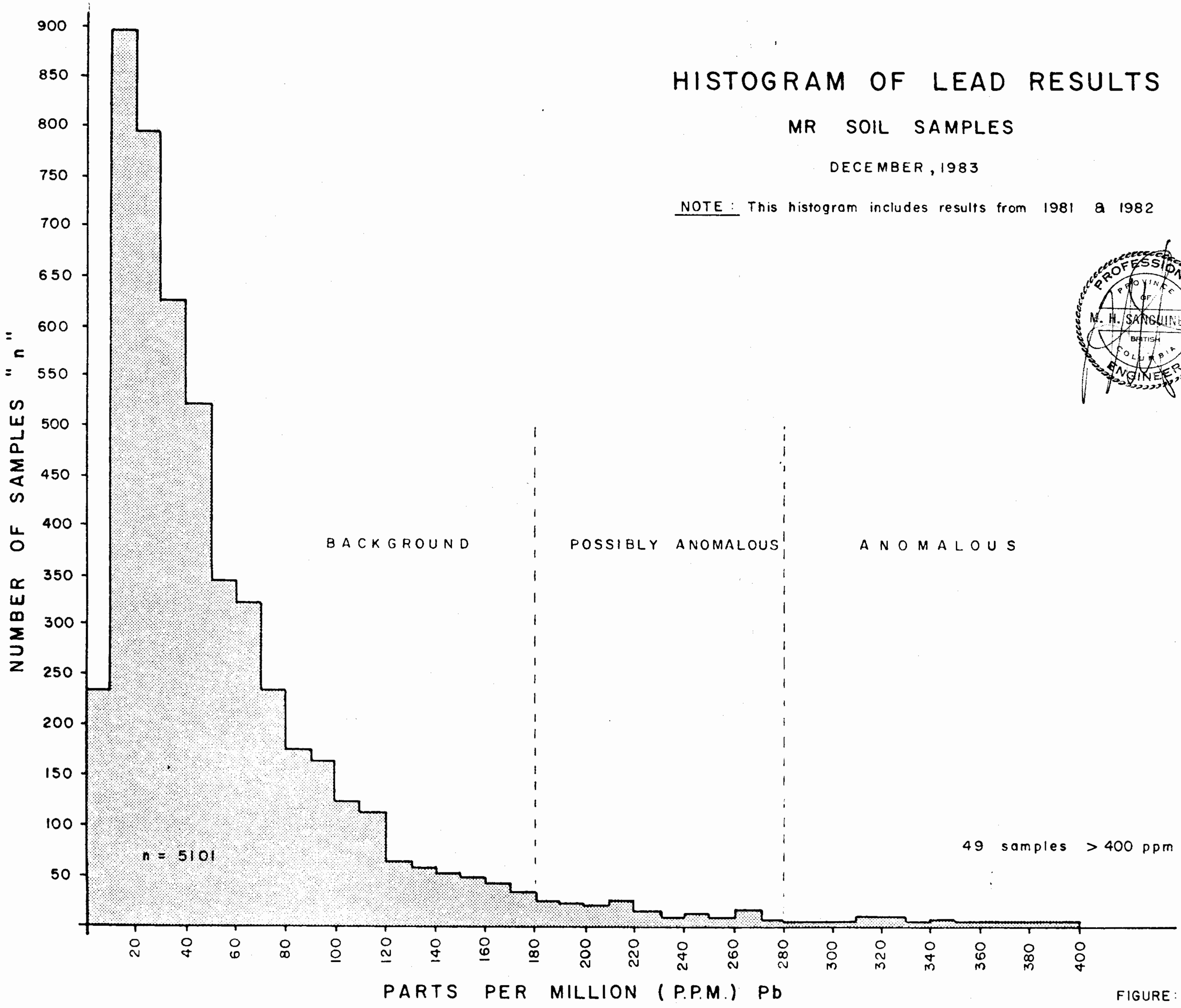
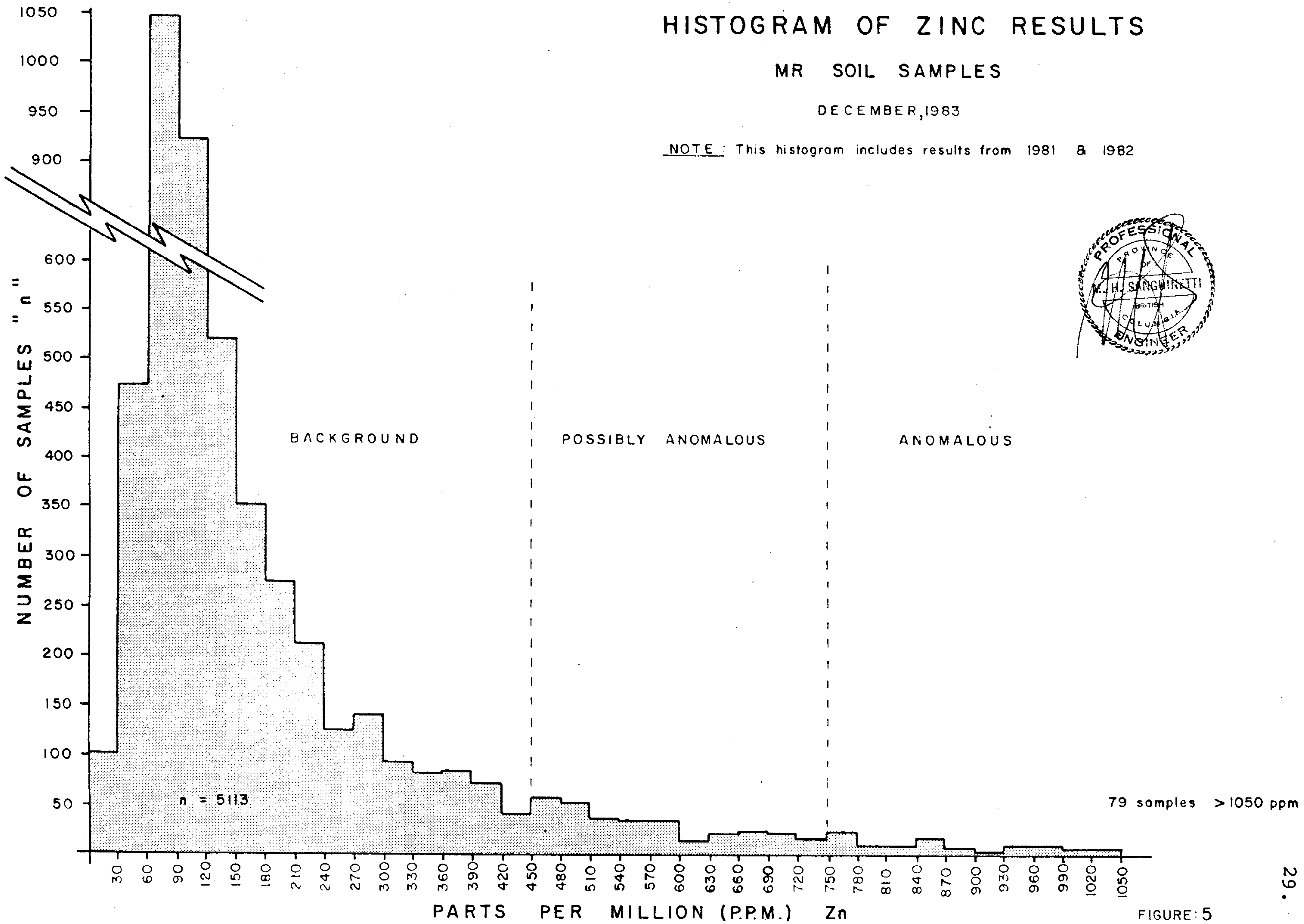


FIGURE: 4



HISTOGRAM OF ZINC RESULTS

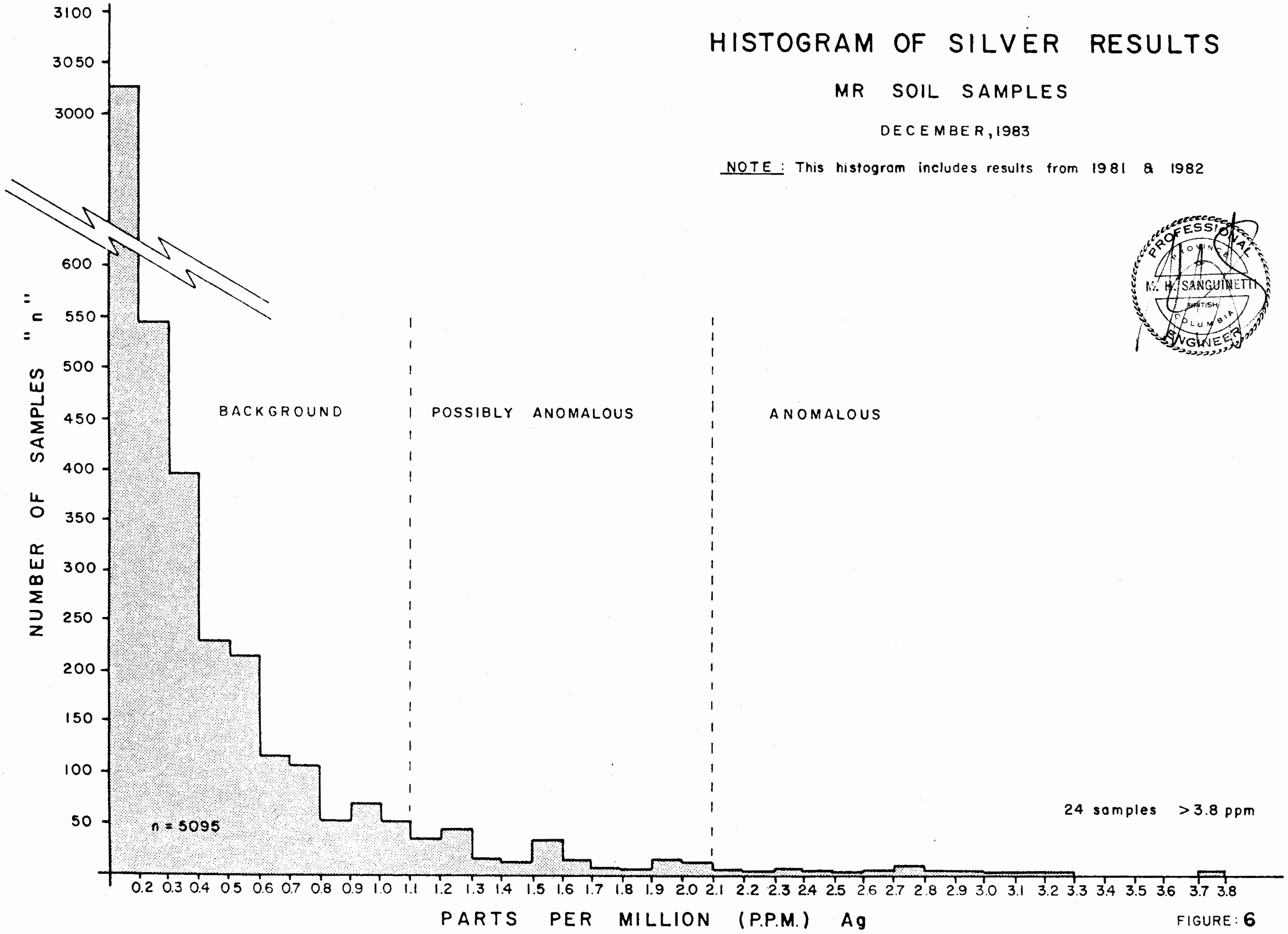
MR SOIL SAMPLES

DECEMBER, 1983

NOTE : This histogram includes results from 1981 & 1982

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

FIGURE: 5



HISTOGRAM OF SILVER RESULTS

MR SOIL SAMPLES

DECEMBER, 1983

NOTE : This histogram includes results from 1981 & 1982

M. H. SANGUINETTI

FIGURE: 6

analysis for water samples was by the atomic absorption method for Ag, Cu, Pb, Fe, Mn, Zn, Ca, K, Mg, Na; by the colourimetric method for As; by the titrametretic method for HCO_3 and Cl and by the gravimetric method for SO_4 and S. In the rock, soil and stream sediment samples lead, zinc, silver, manganese and iron were analyzed for by the atomic absorption method after hot HNO_3-HCl extraction. Gold was analyzed for by fire assay - atomic absorption after aqua regia extraction; arsenic by colourimetry after nitric-perchloric digestion and mercury by cold vapour-atomic absorption after controlled aqua regia extraction.

Statistical categories for each element were defined from normal histograms of the results of soil samples (Figures 4, 5 and 6) and are summarized on Table 2 following:

TABLE 2 STATISTICAL CATEGORIES

	Pb (ppm)	Zn (ppm)	Ag (ppm)
Background	0-180	0-450	0-1.0
Possibly Anomalous	181-280	451-750	1.1-2.0
Anomalous	281-580	751-1550	2.1-4.0
Strongly Anomalous	>580	>1550	>4.0

Geochemical results above selected threshold values are plotted on Plates 3, 4 and 5. Anomalous and strongly anomalous values are contoured for each element. These results show two large multielement anomalies in the West and South Zones and two smaller anomalies in the Farwest and Northwest Zones.

The West Zone anomaly was investigated by deep trenching, mapping and diamond drilling in the area of the oxide mineralization. The easternmost portion of this anomaly was investigated by prospecting with negative results. Values of up to 2360ppm Pb, 6670ppm Zn and 19.0ppm Ag were obtained from grid soil samples over the oxide zone, while results of samples collected 50 metres downslope were in the background range. Glacial "smearing" has resulted in an eastward to northward extension of this anomaly.

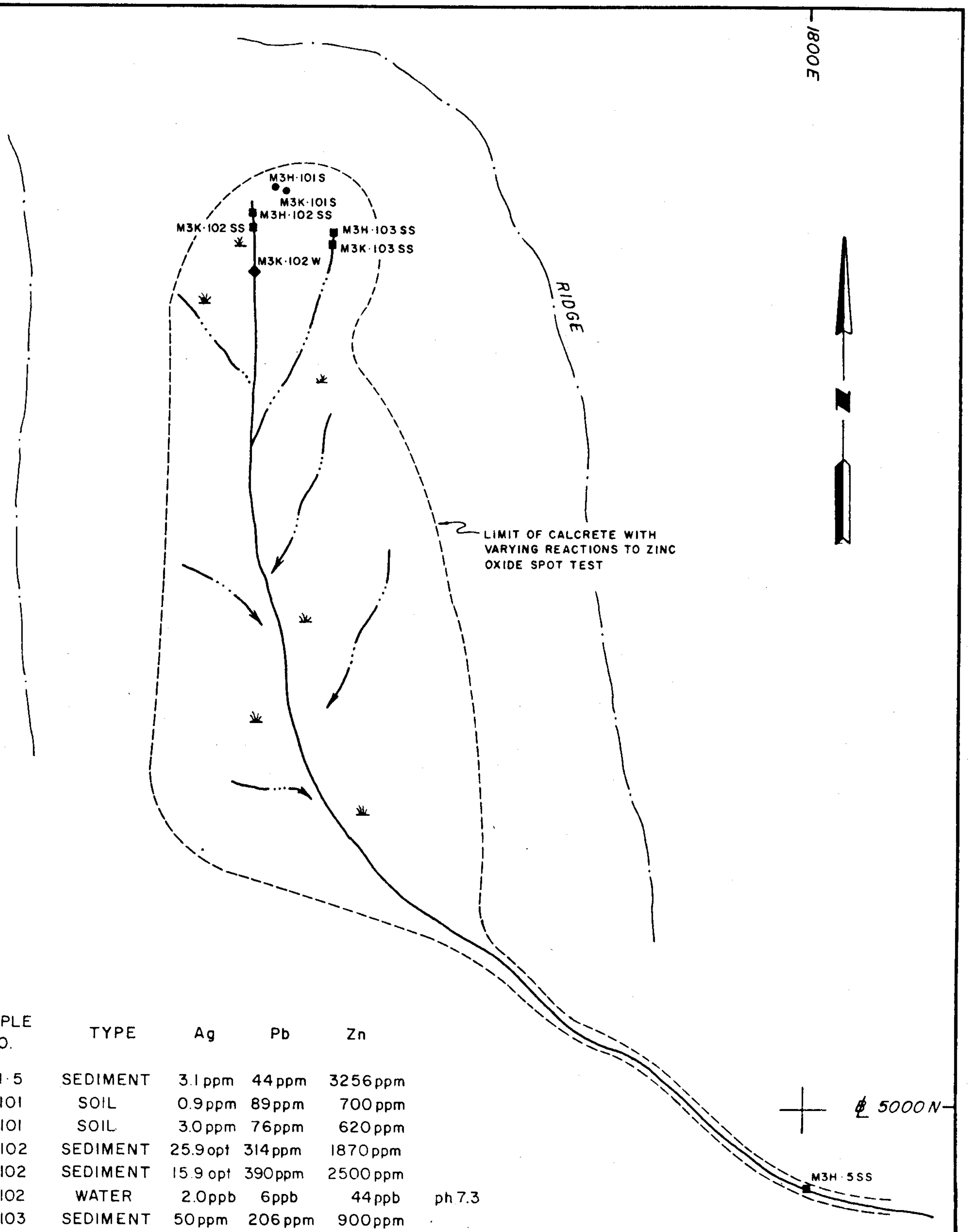
The South Zone anomaly was identified by sampling in 1982 and extended to the west during the 1983 program. Values of up to 1000ppm Pb, 1945ppm Zn and 9.8ppm Ag have been obtained from samples collected in this area. Backhoe trenching across the anomaly on line 3200N was attempted in 1983. No bedrock was located except for grey, LЄ3 marble along the creek near 7175E. The results of soil samples collected in each backhoe pit both confirmed and upgraded the anomaly. Values of 250ppm Pb, 13% Zn and 2.3ppm Ag were obtained from soils in Pit G-38 at 3200N, 6800E. The projected extent of this anomaly is from 5600E to 7600E and from 2800N to 4200N.

Two smaller coincident Pb-Zn-Ag anomalies, the Northwest and the Farwest Zones were located during the 1983 program. The Northwest Zone lies near the 5000N baseline between 400E and 900E. Maximum values of 1045ppm Pb, 1020ppm Zn and 4.3ppm Ag were obtained from samples in this area. Followup prospecting and backhoe trenching did not uncover the source of the anomaly. The underlying bedrock types are primarily quartzite (PLЄ1) and impure marbles (LЄ2); no schistose lithologies were noted. The source of this anomaly was not found. The Farwest Zone is a discontinuous group of anomalous samples extending along an east-west trend from 600W to 600E near the 3500N tie line. Anomalous values are primarily in lead and silver (maximum values 3600ppm Pb, 19.0ppm Ag) although some anomalous zinc values (1050ppm) occur. Several float boulders of iron-manganese oxide float were located in the

GEOCHEMISTRY (Cont'd)

area of 400W; 3300N. Underlying bedrock types are quartzite (PLЄ1) and impure marbles (LЄ3). The strongest anomalies occur over organic-rich meadows. Backhoe trenching was unable to reach bedrock in these meadows. The source of the oxide float boulders or the cause of the soil anomalies has not been determined.

The "Hydrozincite Swamp Area" (Figure 7) is located on the northwest extension of the West Zone at approximately 5100N, 1700E. A series of small springs which flow from the side of a small esker/moraine are depositing a zinc-rich calcrete. These springs converge to form a swamp and small creek. Bright green "zinc moss" is abundant in the wet areas. Soil and stream sediment samples were collected from near the head of the spring and from downstream. The sample results are shown on Figure 7 with a reported maximum silver value in sediments of 25.9 oz/t. A check sample from nearby this site returned a silver value of 15.9 oz/t. The material from which the springs issue is composed of rounded glacial boulders, primarily granitic, but including some quartzites, gneisses and schists. No gossan or mineralization is apparent. The source of water for the springs is thought to be a swamp located at a higher elevation approximately 250 metres to the northwest of the springs. Because of the apparent depth of glacial overburden, bulldozer trenching was not attempted.



SAMPLE NO.	TYPE	Ag	Pb	Zn	
M3H·5	SEDIMENT	3.1 ppm	44 ppm	3256 ppm	
M3K·101	SOIL	0.9 ppm	89 ppm	700 ppm	
M3H·101	SOIL	3.0 ppm	76 ppm	620 ppm	
M3K·102	SEDIMENT	25.9 opt	314 ppm	1870 ppm	
M3H·102	SEDIMENT	15.9 opt	390 ppm	2500 ppm	
M3K·102	WATER	2.0 ppb	6 ppb	44 ppb	ph 7.3
M3K·103	SEDIMENT	50 ppm	206 ppm	900 ppm	
M3H·103	SEDIMENT	4.78 opt	270 ppm	1620 ppm	

M. N. SANGUINETTI

MEISTER PROJECT

HYDROZINCITE SWAMP AREA

APPROX. SCALE : 1 : 1000

M10 0 10 20 30 M.

DECEMBER 1983

FIGURE : 7

9.0 GEOPHYSICS

Grid lines for geophysical surveys were cut, secant-chained and picketed in the West, East and South Zones. Reconnaissance gravity surveys were conducted in all three zones; a test line (L.2800E) of induced polarization was surveyed in the West Zone; and both VLF and Max-Min electromagnetic tests were conducted in the West and East Zones.

GRAVITY

(Appendix "G", Plates 6-9)

Reconnaissance gravity surveys were carried out by the consulting firm of Ager, Berretta & Ellis Inc. on the West, East and South Zones. A report by Gordon Ellis on this work is appended. The following notes are summarized from this report.

In the West Zone seven widely spaced grid lines from 1600E to 3600E were surveyed at station intervals of from 5 metres to 50 metres. Three lines (2800E, 3000E, 3200E) crossed the oxide zone in the area of trenching. Anomalies with residuals in the order of 0.11 to 0.16 milligals are reported on lines 3200E at 4290N, 2800E at 4550N and 2400E at 4770N which "...are consistent with what would be expected from a steeply dipping massive sulphide source a few metres thick." These anomalies are within a longer residual anomaly in the order of 0.1 to 0.2 milligals which exists on lines 2000E through 3600E (with the exception of line 3000E) which is in the projected vicinity of the known mineralization. Four other groups of residual anomalies were noted in the West Zone, which are shown on geophysical Plate 6.

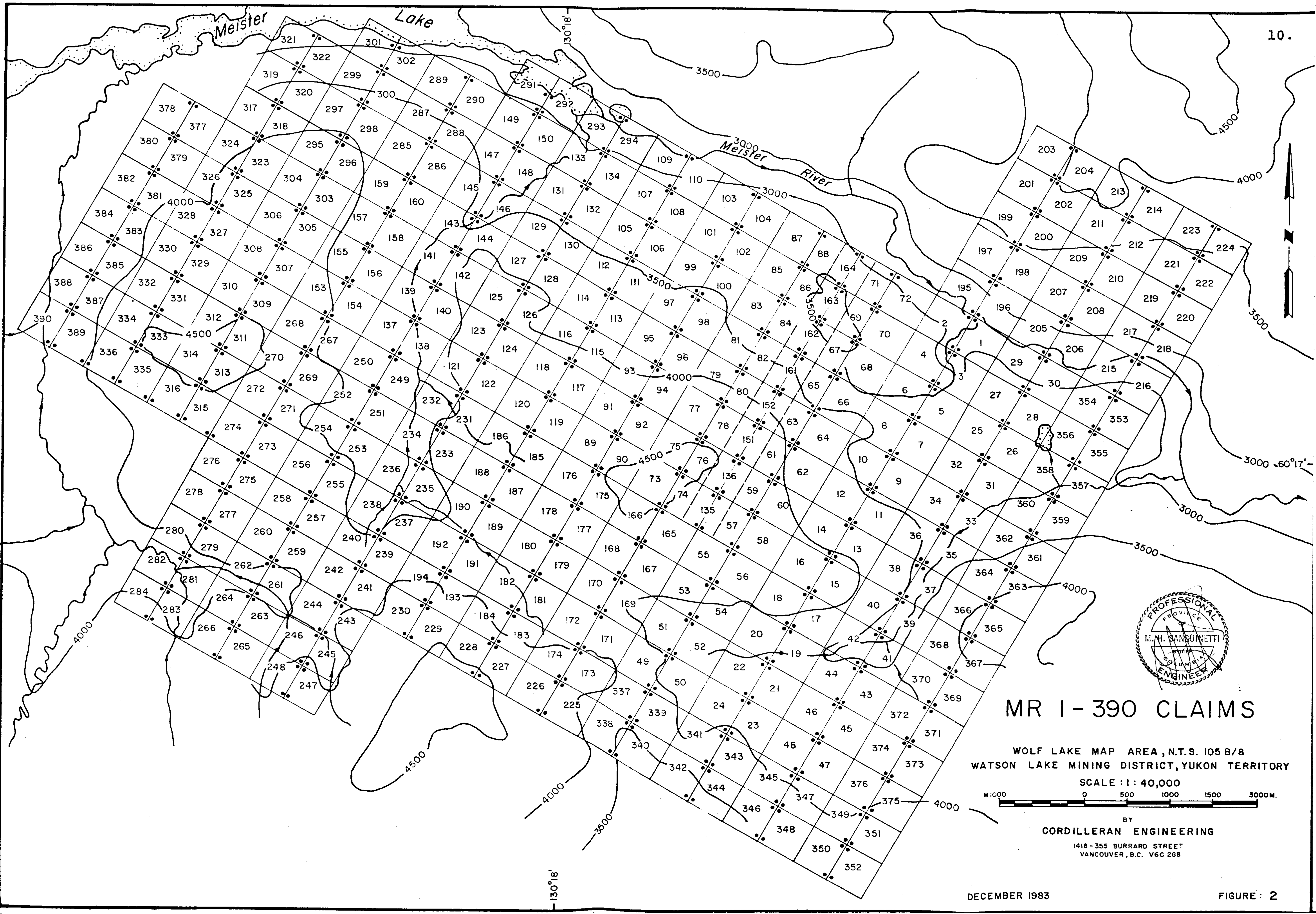
In the East Zone three grid lines and a connecting base line were surveyed at station intervals of from 12.5 metres to 50 metres. Four northeast trending anomalous zones are noted. The strongest zone has a maximum response of greater than 0.3 milligals on line 6600N, diminishing to less than 0.2 on lines 6200N and 5800N. Each anomalous zone may be indicative of underlying rock units, however, further investigations are warranted to determine this.

In the South Zone four grid lines and a connecting baseline were surveyed at 12.5 metre to 50 metre station intervals. Two anomalous zones were located. At 6200E, 2125N a response of 0.2 milligals may warrant further investigation. The broad eastward continuation of this zone may be the result of a stratigraphic feature. The second anomalous group, which has a response of 0.1 milligals, extends from 6200E to 7000E. This may be related to the underlying L€3 stratigraphy.

INDUCED POLARIZATION

(Figures 8, 9)

An induced polarization test survey was conducted on line 2800E by Phoenix Geophysics Ltd. under the direction of Dr. J. Hanneson of Getty to test the polarizability of the West Zone mineralization.



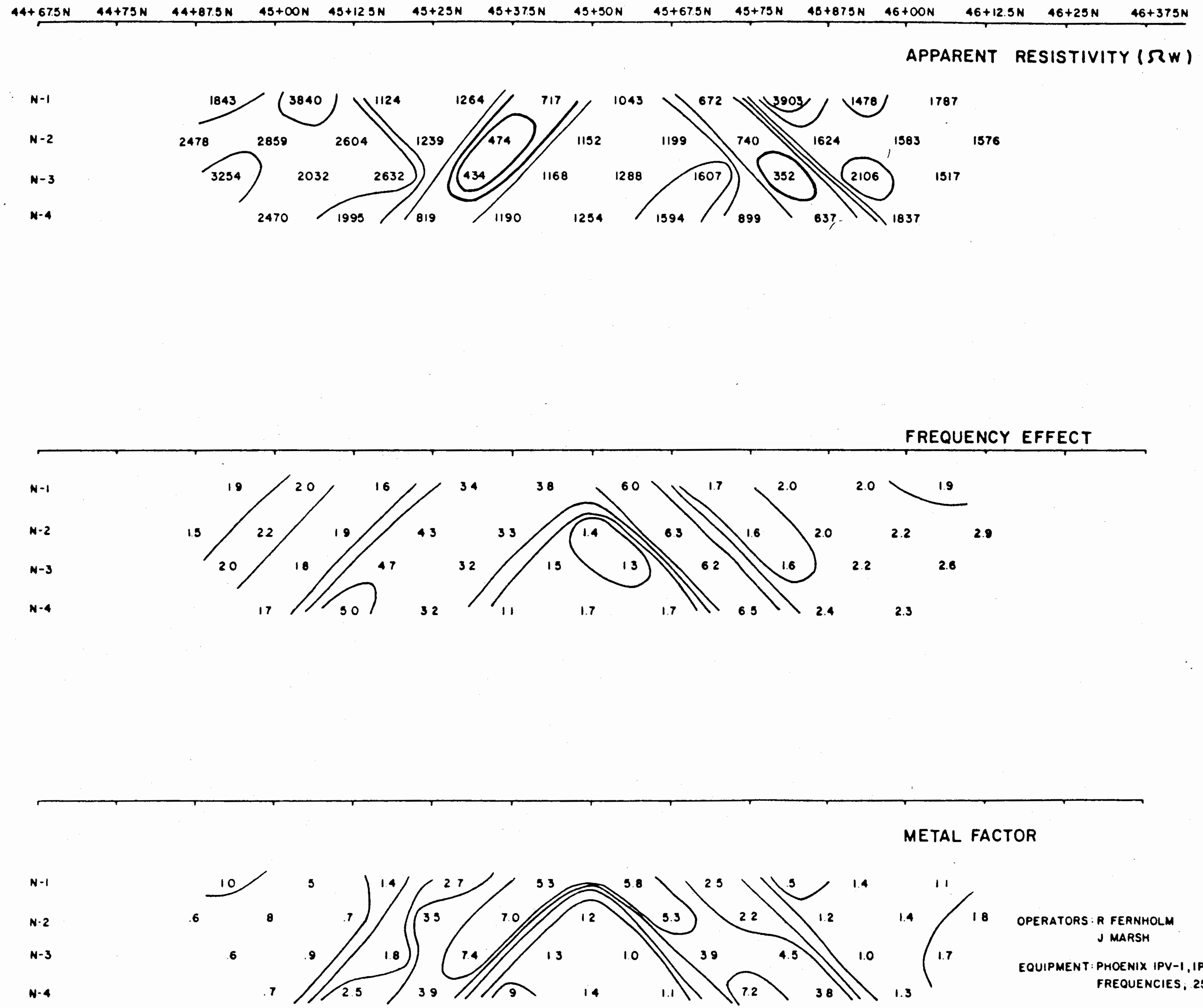
MR 1-390 CLAIMS

WOLF LAKE MAP AREA, N.T.S. 105 B/8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY
SCALE : 1 : 40,000

BY
CORDILLERAN ENGINEERING
1418-355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

DECEMBER 1983

FIGURE: 2



OPERATORS: R FERNHOLM
J MARSH

EQUIPMENT: PHOENIX IPV-1, IPT-1
FREQUENCIES, .25 Hz & 4 Hz

M. H. SANGUINETTI

Figure 8

MEISTER RIVER PROJECT

IP/ RESISTIVITY SURVEY
LINE 2800 E
DIPOLE-DIPOLE ARRAY
(a=12.5m)

DRAWN BY H.D.K.	DATE AUG 2, 1983
CHECK'D BY	DRAW'G No FIG. 2
NTS	SCALE 2cm = 12.5m

Getty Canadian Metals, Ltd.

GEOPHYSICS (Cont'd)

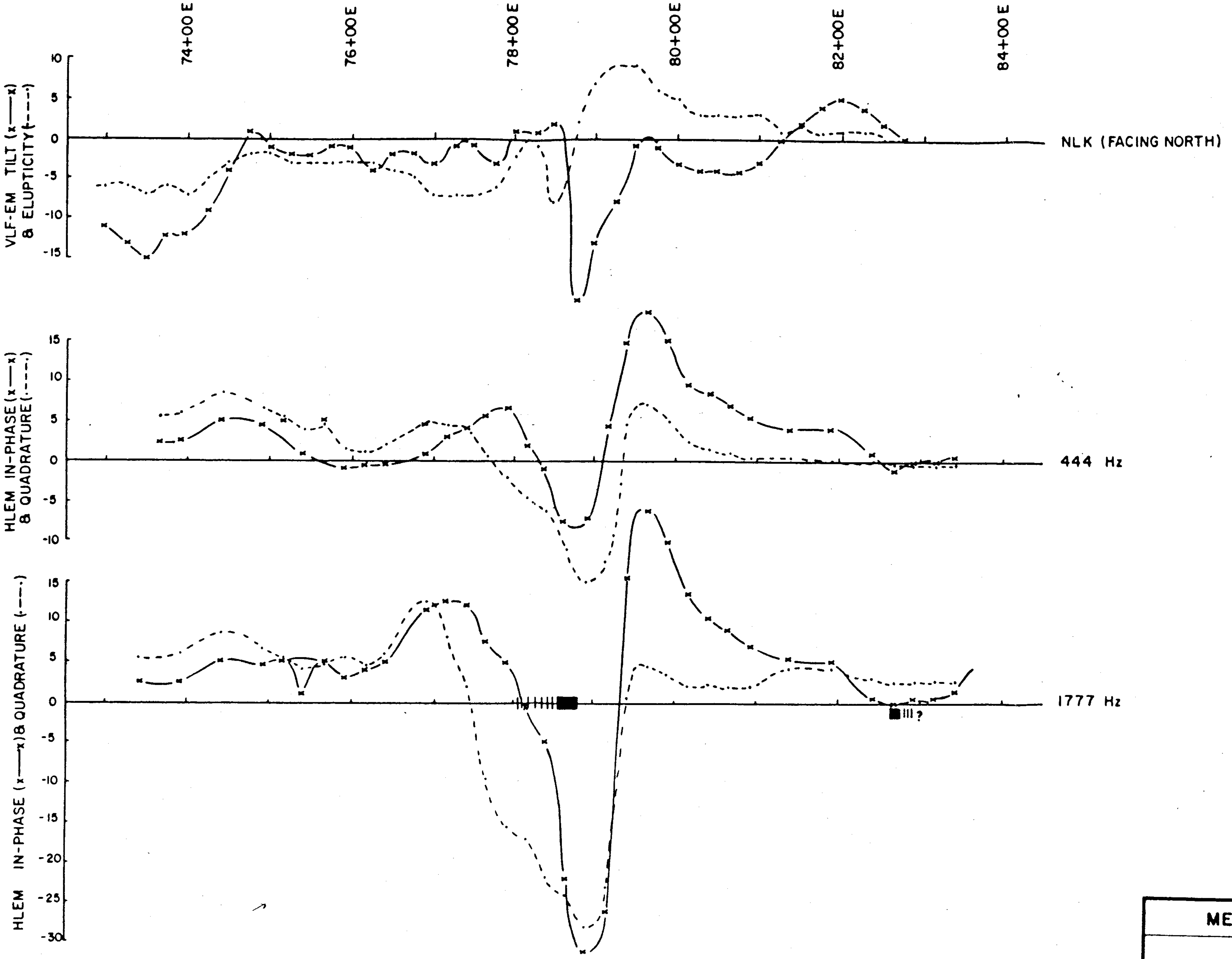
The response of different dipole spacings (12.5 and 50 metre) was measured and is shown on Figures 8 and 9. A memorandum describing the results of this test is included in Appendix "E". The oxide mineralization in Trench 3 was only detected using very short (12.5 metre) dipoles and no coherent response was observed using 50 metre dipoles.

ELECTROMAGNETIC SURVEYS

(Figures 10, 11)

Horizontal loop EM (Max-Min II) and VLF-EM (Geonics EM-16) test surveys were conducted in the West Zone on line 2800E and in the East Zone on line 6200N by personnel from Getty under the direction of Dr. J. Hanneson.

Results of this work are shown on Figures 10, 11 and noted in the appended memorandum. In the West Zone on line 2800E, prominent conductive zones were detected at 3730N and 4000N with a possible broad zone from 4280N to 4330N. These were delineated by the 1981 Dighem II airborne survey. A less prominent weak conductor is noted at 4790N. In the East Zone (Y-53 Pits) the survey on line 6200N shows a broad conductor from 7800E to 7880E and a weak zone near 8300E.



M. H. SANGUINETTI

Figure 10

OPERATORS: J HANNESON
E McGOWAN

COIL SEPARATION = 121.9 m

MEISTER PROJECT

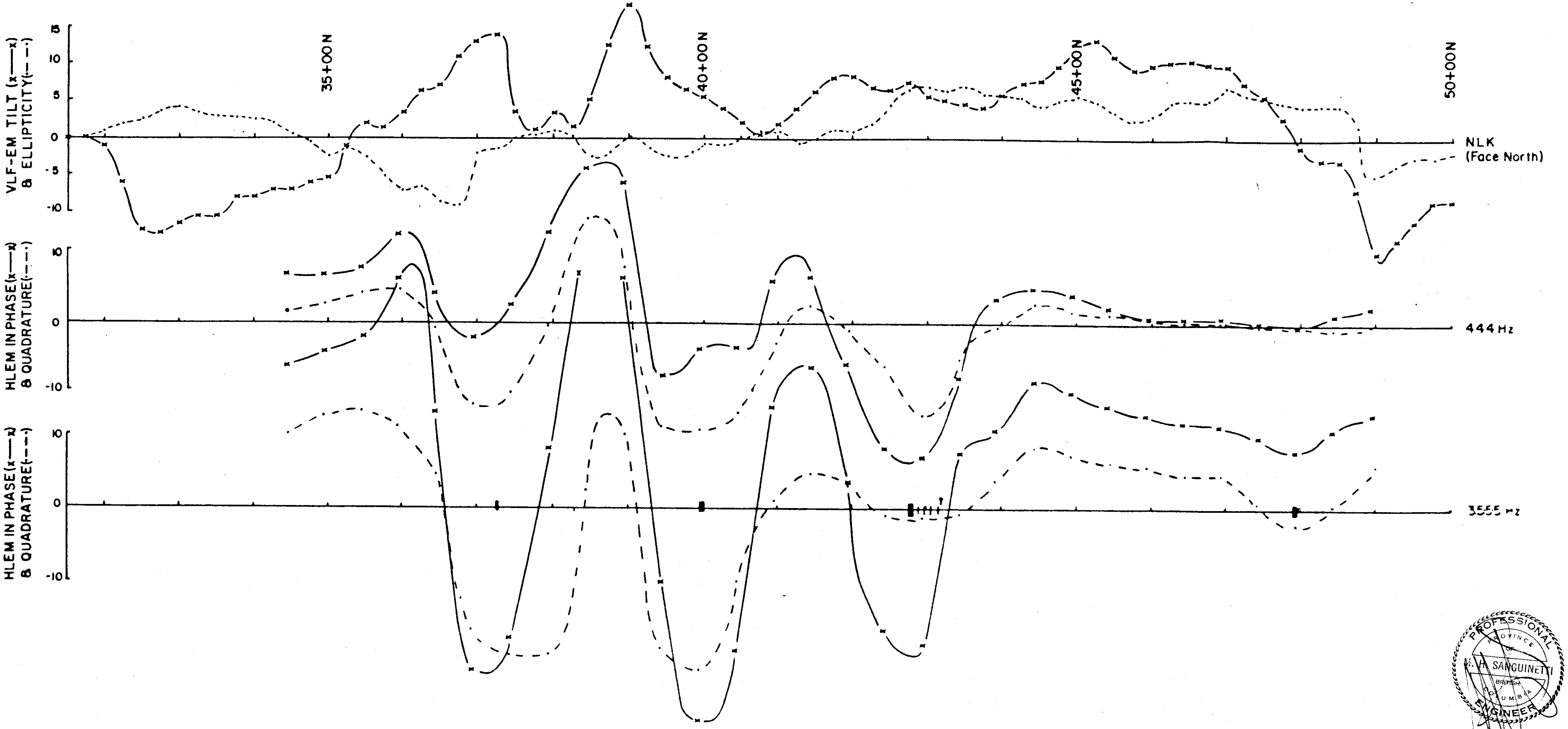
(Y53 PITS)

VLF & HORIZONTAL LOOP EM TEST

LINE 6200 N

DRAWN BY HDK
CHECK'D BY
NTS
DATE JULY 1983
DRAWING No FIG. 4
SCALE 1cm = 50m

Getty Canadian Metals, Ltd.



H. SANGUINETTI

Figure 11

OPERATORS: J. HANNESON
E. McGOWAN
D. HAWKE

COIL SEPARATION = 182.9 m

MEISTER PROJECT

(WEST ZONE)
VLF & HORIZONTAL LOOP EM TEST
LINE 2800 E

DRAWN BY HDK.	DATE JULY 1983
CHECK'D BY	DRAW'G No FIG 1
NTS	SCALE 1cm=50 m

Getty Canadian Metals, Ltd.

10.0 SURVEYING

(Appendix "H")

A photo control survey was carried out by NorthWest Survey Corporation (Yukon) Ltd. in preparation for compiling a more accurate topographic base map. Eleven stations were surveyed and plastic airphoto targets were laid out. In addition, a total of 22 additional airphoto targets were laid out at intersecting grid points over the property. Copies of the survey data showing latitude, longitude and elevation for each station are appended (Appendix "H"). Because of adverse weather conditions the photography was not completed.

11.0 TRENCHING

Because of the extensive overburden cover, a program of trenching was carried out to define the extent of the known oxide mineralization in the West Zone, to evaluate the East Zone mineralization, to investigate the numerous significant geochemical anomalies and to expose bedrock as an aid to mapping. The equipment used consisted of a D-6 bulldozer with a straight blade and a D-4 bulldozer with a short blade on front and a backhoe mounted on the rear. The D-6 was used to prepare access in the heavily timbered areas and on steep sidehills. Because of permafrost and swampy conditions, access to the East Zone was not attained. Glacial overburden and permafrost were limiting factors in effectiveness of the trenching program.

A. WEST ZONE TRENCHING

(Table 3, Appendix "J", Plate 2)

Seventeen deep trenches were dug along the surface trace of the West Zone oxide mineralization to test the continuity of material along strike and at depth. The oxide material was exposed in 3 separate sections over a total strike length of 1000 metres; the west section (150 metres), the central section (450 metres) and the east section (40 metres). True thickness of the oxide material samples varies from discontinuous patches (Pit 3 in Trench 10) to 18 metres (Trench 3). Channel samples were cut

TABLE 3

SUMMARY OF TRENCH RESULTS

TRENCH No.	DIMENSIONS LxWxD m	OXIDE ZONE	ASSAY INTERVAL	% Zn	% Pb	AVERAGE ASSAYS oz/t Ag	% Mn	% Fe	ppb Au
1	12x5x2.2	2.0 to 8.5	8m	10.25	0.69	0.94	10.22	>10	36.2
2	98 x 5 Pit 18x5x2.8	1.0-10.0	14m	12.01	0.32	1.39	7.21	>10	22.1
3	167 x 3.5 Pit 25x0.8x3.5	81 - 99	18m	6.1	0.11	1.62	13.84	>10	30.4
3A	10.5x3.2x4.0	0 - 3.6	4m	8.55	0.03	0.76	10.99	>10	22.5
4	300 x 4.0 Pit 6.2x4.5x5	-	15cm	0.50	0.03	0.13	0.71	5.50	<5
5	55x4x4.1	27.0-28.2	5m	0.18	0.08	0.1	0.07	4.14	11
6	15x4.5x3	3.5-10.0	10m	5.50	0.52	0.99	10.92	>10	46.5
7	7x1x3	No oxide	-	-	-	-	-	-	-
8	22.5x4.0x3.3	3.0 - 5.5 15.7-17.0	-	-	-	-	-	-	-
9	22.0x4.5x3.5	No oxide	-	-	-	-	-	-	-
10	29.2x4x0.5 (Pit 2x0.5x1.0 (Pit 2.2x0.5x0.8 (Pit 5.6x0.5x2.0 (((Pit 3.1x0.5x1.5	Irregular patches in pit 3	10cm (M3M10S)	5.30	1.07	23.0 ppm	-	-	-
11	35x3.5x1.0 Pit 5.2x1.0x2.3 Pit 6.5x1.0x3.0	10.1-20.5	0-22 (22m)	4.05	0.43	0.51	4.02	>10	46.4
12	Incomplete	-	-	-	-	-	-	-	-
13	13.5x1.0x2.5	0.5-10.5	0-12 (12m)	3.15	2.76	2.43	16.62	25.55	33.75
14	34x3x0.5 Pit 12x1x3.0	0-9.0	0-10 (10m)	10.86	0.47	1.29	12.97	20.69	15
15	24x1.0x1.5	0 - 9 20-24	at 4m at 7m at 21m	2.98 2.90 23.84	0.38 0.93 0.11	2.58 1.60 0.99	8.05 0.22 7.30	27.11 45.93 22.79	40 85 15
16	28x1.0x1.5	0 - 6 13-21	at 6m at 15m at 20m	1.46 16.83 10.80	0.48 0.16 0.25	0.66 0.17 1.48	0.20 1.29 7.90	31.43 34.10 32.53	125 20 50

across the width of the oxide zone and generally included a short segment of host rock. Trench dimensions and average assays are shown on Table 3. Maximum values were noted in Trench 2 where the average across 14 metres is 12.33% Zn + Pb and 1.39 oz/ton Ag. Nodules and veinlets containing pyrite, galena and sphalerite mineralization were uncovered in Trenches 1, 2, 3A, 11A and 13. The galena is invariably associated with minor amounts of pyrite and quartz and is usually covered with a thick (1-2 cm) sericitic layer of iron and lead oxides. No sphalerite was observed with the galena.

Detailed trench records were prepared which are included in Appendix "J". In correlating the assay results of the different elements tested (Ag, Pb, Zn, Mn, Fe, Au), there appears to be a gross relationship between zinc and manganese values only. The assay results of the other elements do not appear to be interdependent.

The colours of the oxide material did not correlate to any metal enrichment with the exception of higher manganese values which correspond to sections of darker, pyrolusite-rich material. One of the more prominent features of the oxide mineralization revealed by trenching was an apparent layering of iron-rich and manganese-rich horizons. Also apparent is a down-slope migration and mixing of the oxide material with glacial till. This downslope migration is not reflected in the results of geochemical soil sampling.

B. RECONNAISSANCE TRENCHING

(Table 4; Plate 10)

A total of 77 small backhoe test pits were dug to evaluate the source of several geochemical soil anomalies and to

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm) Pb	Zn	Ag
G#1	G-4	4+00E 49+00N	7x5	sandstone marble	220	355	1.7
G#2	G-5R rock	6+00E 49+75N	9x5	dk.grey marble minor pyrite	260	700	4.8
	G-6				330	510	3.0
G#3	N.S.	6+00E 49+50N	6x4	marble			
G#4	G-7	7+00E 50+99N	5x6	marble	148	268	1.4
G#5	G-8	7+00E 49+75N	7x6	marble quartzite	230	390	2.3
G#6	G-9	7+00E 49+25N	7x6	green phyllite	94	325	2.0
G#7	G-10	7+00E 48+25N	7x6	phyllite marble quartzite	36	128	0.7
G#8	G-11	8+25E 50+50N	7x6	quartzite marble	171	263	2.0
G#9	G-12	8+25E 50+00N	7x6	silty chloritic phyllite	116	298	2.0
G#10	G-13	8+25E 49+00N	7x4	quartzite marble	79	156	1.8
G#11	G-14	32+00E 32+50N	7x6	grey & brown marble	166	312	0.5

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm) Pb	Zn	Ag
G#12	G-15	32+50E 32+75N	7x5	brown, orange marble, manganiferous, phyllitic	137	280	0.5
G#13	G-16	33+00E 33+00N	7x6	brown, orange marble Mn staining	165	260	0.5
G#14	G-17	33+50E 33+25N	7x6	brown, grey marble	116	256	0.4
G#15	G-18	33+75E 33+00N	7x6	marble	148	234	0.8
G#16	G-19	46+00E 44+50N	4x2	marble subcrop	149	156	0.6
G#17	G-20	45+50E 44+50N	4x2	marble subcrop	105	133	0.4
G#18	G-21	45+00E 44+00N	4x1-1/2	marble subcrop	220	312	1.2
G#19	G-22	44+50E 43+75N	4x2	marble subcrop	300	510	2.2
G#20	G-23	44+00E 43+50N	4x1-1/2	marble outcrop	410	540	2.5
G#21	G-24	44+00E 43+00N	5x3	marble	75	180	0.4
G#22	G-25	43+75E 42+50N	4x2	marble	112	223	0.3

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm)		
					Pb	Zn	Ag
G#23	G-26	43+50E 42+00N	4x2	marble subcrop with chl.sch.	22	80	<0.2
G#24	G-27	43+25E 41+50N	4x2	phyllite, minor marble	28	75	<0.2
G#25	G-28	43+00E 41+00N	5x3	marble, rust zone 1"x12"	59	206	0.2
G#26	G-29	42+50E 40+50N	4x2	sericitic marble	74	130	0.4
G#27	G-30	42+00E 40+50N	5x3	sericitic marble outcrop, minor rust	410	580	1.3
G#28	G-31	47+00E 45+00N	4x2	sericitic marble	300	430	2.1
G#29	G-32	47+50E 44+25N	5x3	phyllite and marble	51	94	0.2
G#30	G-33	48+00E 43+50N	4x2	marble	55	114	0.2
G#31	G-36	61+00E 32+00N	5x3	marble/ phyllitic marble	470	780	0.3
G#32	G-37	62+00E 32+00N	5x3	phyllite, carbonate	99	322	0.2

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm)		
					Pb	Zn	Ag
G#33	G-38	63+00E 32+00N	5x3	phyllite, marble	138	374	0.2
G#34	G-39	64+00E 32+00N	5x3	marble	139	322	0.3
G#35	G-40	65+00E 32+00N	5x3	marble	88	213	0.2
G#36	G-41	66+00E 32+00N	5x3	marble	91	204	0.2
G#37	G-42	67+00E 32+00N	5x3	marble	660	4200	1.6
G#38	G-43	68+00E 32+00N	5x3	grey phyllite, pyritic, oxidized, sericitic schist	250	>2000 13%	2.3
G#39	G-44	69+00E 32+00N	5x3	marble and phyllite	220	3950	1.7
G#40	G-45	70+00E 32+00N	5x3	glacial	460	1380	3.1
G#41	G-46	8+00E 48+00N	6x4	glacial (marble + phyllite)	35	196	1.4
G#42	G-47	8+00E 47+00N	7x6	glacial + 20% carb.	87	111	0.5

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm) Pb	Zn	Ag
G#43	G-48	7+00E 46+50N	7x6	glacial + marble	300	353	2.0
G#44	G-49	6+00E 45+50N	7x6	glacial + dirty clastics	35	128	0.4
G#45	G-50	6+00E 44+50N	7x6	marble, phyllite	23	94	<0.2
G#46	G-52	6+00E 47+00N	4x1	rusty, grey phyllite	36	85	3.7
G#47	G-54	8+00E 46+00N	7x5	glacial + marble + phyllite	200	480	4.8
M-1	H-6	24+00E 47+25N	7x6	phyllite, limonitic, frost	27	1100	1.5
M-2	H-7	24+50E 47+25N	12x3	phyllitic, red soil, frost	420	6600	25.0
M-3	H-8	25+00E 47+10N	10x5	phyllite, frost	880	4800	10.0
M-5	H-9	22+00E 49+00N	5x6	grey phyllite	28	129	0.4
M-6	H-10	21+75E 49+50N	6x6	grey phyllite	25	142	0.4

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm)		
					Pb	Zn	Ag
K1	N.S.	400W 33+00N	5x5	marble + quartzite			
K2	M3M 2	5+50W 32+25N	3x2	marble outcrop, Mn0 minor limonite	155	255	3.2
K2A	N.S.	5+50W 32+20N	3x2	marble, phyllite. minor stain			
K3		6+00W 32+50N	12x5	marble, quartzite, phyllite, Mn, + Fe stain	178	620	1.1
K4	4A centre of pit	4+00W 32+50N	25x5	marble, sericite schist, limonitic	76	135	3.3
	4B at old anomaly site				22	100	0.8
	4R				6	39	<0.2
K5		0+00E 35+50N	13x4	phyllite, limonite, till	230	390	2.1
K6		0+50E 35+00N	10x5	phyllite, quartzite, till	320	430	1.5
K7		0+00E 33+50N	12x4	marble, quartzite, till	230	405	5.6

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm) Pb	Zn	Ag
K8		2+00E 34+00N	10x4	quartzite, marble, phyllite	111	285	2.4
K9		3+00W 33+00N	10x5	marble, manganese, iron, phyllite	250	550	8.9
K10		2+00W 33+00N	13x4	talc schist, limonitic, sericite, quartzite	52	141	3.0
K11		1+00W 33+00N	13x4	talc schist, marble, phyllite	33	105	0.7
K12		1+00E 34+00N	10x4	quartzite, marble, phyllite	102	158	0.9
K13		3+10E 35+00N	10x5	marble, phyllite, limonite	80	164	0.7
K14		4+00E 36+50N	10x4	quartzite, phyllite, marble	111	219	1.6
K15		46+00E 23+50N	10x4	marble	92	880	<0.2
K16		47+00E 23+00N	12x3	marble, phyllite	35	366	<0.2

TABLE 4 - RECONNAISSANCE TRENCHING RESULTS

PIT NO.	SAMPLE NO.	STATION	DIMENSIONS* (LxD ft.)	ROCK TYPES	ANALYSES (ppm) Pb	Zn	Ag
K17		48+00E 24+00N	16x4	marble, quartzite, limonite + Mn	240	600	<0.2
K18		49+00E 24+50N	13x5	quartzite, marble, phyllite till	72	176	<0.2
K19		50+00E 25+00N	12x4	calc-phyllite o/c? sericite, marble quartzite	67	302	<0.2
K20		71+00E 32+00N	10x3	till, marble, some limonite	1090	4950	3.6
K21		72+00E 32+00N	12x5	marble, quartzite, phyllite with limonite	74	214	0.4
K22		73+00E 32+00N	12x5	phyllite, limonite, marble	240	650	1.5
K23		74+00E 32+00N	14x5	quartzite, phyllite, marble	310	660	1.6
K24		75+00E 32+00N	10x5	quartzite, marble, phyllite	430	920	2.2

* NOTE: Width of all pits was 3.75 feet

TRENCHING (Cont'd)

investigate bedrock lithologies. The locations of these are noted in Table 4 and are shown on Plate 10. Soil samples collected from each pit were analyzed for lead, zinc and silver. In addition, the dimensions of each pit and the dominant rock types were noted. Upon completion of the sampling the pits were filled in. At each geochemical soil anomaly investigated, analytical results from the pits were also anomalous. However, in no instance was any in situ mineralization located.

In the South Zone one east-west "fence" of pits was dug across the trend of the existing silver-lead-zinc anomaly on line 3200N. Soil analyses from these pits returned strongly anomalous zinc and lead results at 8 locations, with a maximum of 13% zinc occurring in pit G-38. The observed rocks in this pit were grey phyllite and pyritic, oxidized sericitic schist. Anomalous zinc, lead and silver values occur in pits extending across 800 metres on this line with maximum values of up to 1090ppm lead and 3.6ppm silver noted in pit K-20. The sampling in these pits confirms the soil anomaly in the South Zone and indicates that it is more extensive than it appears on the soil geochemistry map.

Attempts to walk the D-6 bulldozer and the D-4 backhoe in to the East Zone showing area were unsuccessful. An extensive wet area lies to the south of this zone and, to the west, the bulldozer was stopped by permafrost on a steep sidehill. A more circuitous route exists by approaching the zone from either the east or the northwest.

Seventeen pits were dug in the Northwest Zone to examine anomalous silver-lead-zinc geochemical soil results. Underlying bedrock exposed in these pits was mainly marble (LЄ2, LЄ3) and quartzite (PLЄ1). Float material was primarily marble and

and phyllite derived from LЄ3. A large number of the pit sample analyses were anomalous, with maximum values of 4.8ppm silver in pit G-47 and 330ppm lead in pit G-2. Zinc, however, was anomalous (max. 1110ppm) in the grid soil samples but was not anomalous in the pit samples. No mineralized outcrop or float was found; the source of the anomaly is suggested to be within the LЄ3 schists which probably adjoin the marbles to the south or southwest of the existing anomaly. Trenching in these projected sources failed to reach bedrock.

Reconnaissance trenching in the Farwest Zone was conducted to investigate the source of several oxide float boulders found near 400W, 3300N. Soil sampling had indicated a widespread discontinuous lead-silver (-zinc) anomaly extending from approximately 600W to 600E and from 3000N to 3800N. Maximum soil values were 3600ppm lead, 19ppm silver and 2400ppm zinc. A total of 15 pits were dug, none of which succeeded in locating further mineralization. The strongest soil anomalies are situated in areas of open meadows; pits dug at these sites failed to reach bedrock. Within the overburden minor amounts of iron and manganese oxide stainings were noted in yellow-brown clayey silt, in addition to phyllite, marble and quartzite boulders. Outcrops of LЄ3 phyllite, mica schist and marble occur within this area. Other pits near these outcrops also contained manganese and iron oxide staining in silt horizons and on phyllite and marble boulders.

12.0 DIAMOND DRILLING

(Table 5, Appendix "K", Plates 11-14)

Five diamond drill holes totalling 1076.6 metres were drilled in the West Zone during the period August 14th to September 6th, 1983 (Table 5, Diamond Drill Summary Record). This work was contracted to E. Caron Diamond Drilling Ltd. of Whitehorse, Yukon. A skid-mounted Longyear 38 drilling machine was used; site preparation and drill moves were with a D-6 bulldozer.

Holes MR83-1 and MR83-2 (Plate 11) were drilled to test the down-dip extension of the oxide zone exposed in Trench 3. Surface mapping along the trench indicated a 45 to 70 degree dip to the southwest for the sediments. No sulphides and only minor oxides were intersected in these holes. Interpretation of the drill logs suggests that the oxide zone narrrows very quickly with depth or is faulted off along the fault contact it occupies between the footwall carbonates and the hangingwall schists (and phyllites). Hole 83-1 continued into lower clastic sandstone as projected from surface mapping, however, hole 83-2 stayed in upper clastic carbonates and calcareous schists. This suggests that the holes were drilled near the nose or through the limb of a fold which trends subparallel to the oxide zone. Assay results of samples of the oxide material all returned very low results.

Hole MR83-3 was drilled beneath Trench 11 in an attempt

TABLE 5

CORDILLERAN ENGINEERING

DIAMOND DRILL SUMMARY RECORD

PROPERTY: MEISTER

HOLE No.	NORTHING	EASTING	ELEV'N	SECTION	INCLINATION	AZIMUTH	O'BURDEN	CLAIM	% REC'Y	DATE START	DATE FINISH	REMARKS	HOLE DEPTH	TOTAL
MR83-1	44+60	27+75	1185.9		-45	070	0	MR140	64.6	Aug 14D	Aug 19D	Tricone 20' Casing out No return	145.4	145.4
MR83-2	44+60	27+75	1185.9		-85	070	0	MR140	90.8	Aug 19D	Aug 24D	Tricone 20' 20' casing No return	238.4	383.8
MR83-3	43+20	30+65	1210.5		-65	070	0	MR123	69.0	Aug 24N	Aug 25N	Tricone 20' 10'Casing/no ret/hole lost sand	75.3	459.1
MR83-4	43+00	31+90	1245.1		-88	030	0	MR123	70.7	Aug 26N	Sept 1D	No return Tricone 10' 10'casing in	236.5	695.6
MR83-5	42+00	28+00	1172.3		-88	030	0	MR138	92.9	Sept 1D	Sept 6D	Tricone 30' 30'casing in	381.0	1076.6

to intersect the oxide material exposed in this trench and the carbonate-hosted, submassive galena outcropping in Trench 11A. The hole was stopped at 75.3 metres after passing through a wide fault zone from 25 to 37 metres which, it is suggested, corresponds to the zone of surface oxide mineralization. Minor oxide was recovered in the fault material of which the best sample assayed 0.20 oz/ton silver, 0.09% lead and 3.70% zinc across 1.6 metres (34.1 to 35.7 metres). No sulphide mineralization was encountered. The lithologies and structure encountered in the hole were as projected from the surface trench except for the absence of the wide oxide zone.

Hole MR83-4 was drilled to test the axis of an anomalous gravity feature lying along the eastward extension of the oxide zone. This hole was collared approximately 50 metres southeast of Trench 15 where an east-west trending fault contact between carbonates and calcareous schist of the upper clastic unit host an eastward extension of the oxide mineralization. This surface mineralization was discovered after the hole had been drilled. Discontinuous oxide mineralization was intersected in the fault zone interval from 42 to 52 metres. Recovery was low, however, a grab sample of oxide material across 5.5 metres (45.1 to 50.6 metres) assayed 0.52 oz/ton silver, 0.16% lead and 1.29% zinc. Several oxide zones were intersected within mica schists of the lower clastic unit, a grab sample of which assayed 1.37 oz/ton silver, 0.13% lead and 1.32% zinc across 0.4 metres (101.4 to 101.8 metres). A comparison of the bedding angles from surface and drill core suggests a major change across the fault contact between the carbonates (footwall) and the calcareous schist (hangingwall). Bedding angles down the hole are relatively consistent with an apparent gradual steepening of beds with depth. Minor graded bedding within sandstone subunits of the lower clastics shows that the stratigraphic tops are the right way up in this succession. Moderate pervasive sericite alteration was noted in the lower clastic subunits in this hole.

Hole MR83-5, which was collared on the axis of a preliminary, arcuate gravity anomaly south of the oxide zone, intersected 381 metres of upper clastics, primarily calcareous ferruginous schists carrying minor disseminated pyrite. A wide graphitic zone bearing varying amounts of pyrite and pyrrhotite occurs in the interval 229 to 290 metres. Bedding angle measurements and cleavage alignments show that the hole intersected a series of S and Z folds suggesting that it has cut down and across the west dipping limb of a broad, southeast trending fold. Two minor oxide zones were encountered in the upper 60 metres of the hole. In the interval between 85 and 145 metres several narrow quartz veins carrying graphite, sphalerite, galena and pyrite occur within calcareous ferruginous schist. Assay samples of up to 0.33 oz/ton silver, 0.36% lead and 2.22% zinc over 1.5 metres (137.2 to 138.7 metres) were reported from this material. Thin section examination (Appendix I) of a "sulphide bearing phyllonite" (254.0 metres) contained pyrite and minor associated sphalerite in coarse granular quartz within a folded band in a very fine grained sericite schist (calcareous ferruginous schist). This sphalerite was not observed during the routine logging of the core. Subsequent re-evaluation of the preliminary gravity results on which basis this hole was drilled indicate that the anomaly does not in fact exist, and that the hole is situated between two arcuate anomalies.

APPENDIX "A"

STATUTORY DECLARATION
OF COSTS

CANADA) In the matter of a geological, geochemical and geophysical report on the
) MR 1-390 claims, Watson Lake Mining District, on behalf of Regional
TO WIT :) Resources Ltd.

I, Michael H. Sanguinetti, agent for Regional Resources Ltd.

of 1418-355 Burrard Street, Vancouver, B.C. V6C 2G8

do solemnly declare, - that an exploration program of grid preparation, road construction, geological mapping, geochemical sampling (rock,soil,water) geophysical surveys (gravity, IP, VLF and Max Min EM tests), bulldozer trenching and diamond drilling was conducted on the MR #1-390 (incl.) claims, during the period May 15 to October 2, 1983. Expenditures for this program, exclusive of trenching, diamond drilling and their related costs, are as follows:

Salaries	$ 32,287.08
Professional services, consulting	23,000.00
Line cutting (contract)	16,869.75
Rentals (camp,vehicle,radio)	9,400.00
Food	6,674.31
Photomosaic,airphoto targets,control	13,187.91
Fixed wing aircraft	594.72
Access road construction (partial)	16,321.50
Drafting, printing	2,033.00
Helicopter (Frontier & Northern Mountain)	17,113.00
Gravity Survey	36,292.41
Freight, sample shipment	2,400.00
Equipment, field supplies	12,390.00
Analyses	10,609.49
Travel, hotel, meals	4,180.60
Miscellaneous (petrography,telephone,fuel)	3,384.00
Management fee	20,000.00
TOTAL	$226,737.77

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of the Canada Evidence Act.

Declared before me at Vancouver)
in the province of British Columbia this)
12 day of December 19 83)

A notary Public in and for the
Yukon Territory

Appendix "A" ii.

CANADA)
)
)
TO WIT:)

In the matter of a program of trenching and diamond drilling on the MR claim group, Watson Lake Mining District, Yukon, on behalf of Regional Resources Ltd.

I, Michael H. Sanguinetti, agent for Regional Resources Ltd.

of 1418-355 Burrard Street, Vancouver, B.C. V6C 2G8

do solemnly declare, - that an exploration program of grid preparation, road construction, geological mapping, geochemical sampling (rock,soil,water), geophysical surveys (gravity,IP, VLF and Max Min EM tests), bulldozer trenching and 1076.6 metres of NQ diamond drilling was conducted on the MR claim group during the period May 15 to October 2, 1983. Expenditures for the trenching, diamond drilling and related costs only are as follows:

Salaries	$ 16,143.55
Professional services, consutling	23,000.00
Project management	20,000.00
Access road construction	5,440.50
Diamond drilling	112,611.71
Bulldozer/hoe trenching	16,191.00
Assays, analyses	6,186.33
Rentals (camp,vehicle)	3,137.88
Food	6,674.31
Helicopter	5,704.30
Freight, sample shipment	2,401.00
Equipment, field supplies	4,527.22
Miscellaneous (drafting,printing,petrography, fuel,travel,telephone)	4,178.08
TOTAL	**$226,195.88**

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of The Canada Evidence Act.

Declared before me at Vancouver)
in the Province of British Columbia **this**)
12 **day of** December **19**83)

A Commissioner for Oaths for Yukon Territory OR Notary Public for

APPENDIX "B"

WRITER'S CERTIFICATE

APPENDIX "B"

CORDILLERAN ENGINEERING

1418 MARINE BUILDING, 355 BURRARD STREET, VANCOUVER, BRITISH COLUMBIA V6C 2G8 TEL: (604) 681-8381

WRITER'S CERTIFICATE

I, Michael H. Sanguinetti of Vancouver, British Columbia hereby certify that:

1. I am a geologist residing at 2208 West 35th Avenue, and employed by Cordilleran Engineering of 1418-355 Burrard Street, Vancouver, British Columbia.

2. I am a graduate of the University of British Columbia, B.Sc., in 1965, and have practised my profession since that time.

3. I am a member of the Association of Professional Engineers of the Province of British Columbia.

4. I am the author of this report which is based on the results of a field program conducted on the MR claim group by Cordilleran Engineering during the period May 15th and October 2nd, 1983.

M. H. SANGUINETTI

CORDILLERAN ENGINEERING

M H Sanguinetti

Michael H. Sanguinetti, B.Sc.,P.Eng.,
Geologist

December 12, 1983

MHS/jb

Vancouver, B.C.

GEOLOGICAL ENGINEERS • MINERAL EXPLORATION CONSULTANTS • MANAGEMENT

APPENDIX "C"

PERSONNEL & CONTRACTORS

APPENDIX "C"

PERSONNEL

The following personnel worked on the MR 1-390 claim group during the 1983 field season:

Bruce A. Youngman	8364 Fremlin Avenue Vancouver, B.C.	Geologist
Teresa A. MacKenzie	4050 Cartier Street Vancouver, B.C.	Geologist
Tony G. Simard	#5 - 1536 Wilmot Place Victoria, B.C.	Sampler, linecutter
Kelinda Sax	Box 222, Lougheed, Alberta	Sampler, prospector
John M. Slack	#5 - 363 West 4th Street North Vancouver, B.C.	Prospector
Gary L. Wesa	1836 Parker Avenue Vancouver, B.C.	Geologist
Lawrence R. Solkoski	Box 573, Vancouver, B.C.	Geologist
Brian Goodacre	3354 Heather Street Vancouver, B.C.	Sampler
Edward A. Balon	1418 - 355 Burrard Street Vancouver, B.C.	Prospector
Michael H. Sanguinetti	1418 - 355 Burrard Street Vancouver, B.C.	Geologist
Janice L. Tindle	Box 615, Whistler, B.C.	Cook, sampler

CONTRACTORS

C.R. Eastman	Box 4411, Whitehorse, Y.T.	Linecutting
Northern Mountain Helicopters, Inc.	Box 368, Prince George, B.C.	Helicopter
Frontier Helicopters Ltd.	Box 10, Watson Lake, Y.T.	Helicopter
NorthWest Survey Corporation (Yukon) Ltd.	Box 4418, Whitehorse, Y.T.	Survey control
E. Caron Diamond Drilling Ltd.	#7 Roundel Road, Whitehorse, Y.T.	Diamond drilling and bulldozing
Ager, Berretta & Ellis Inc.	606 - 595 Howe Street Vancouver, B.C.	Gravity survey

APPENDIX "D"

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APPENDIX "E"

GEOPHYSICAL MEMORANDUM

(GETTY)

TORONTO, ONTARIO
2 December 1983

DEC - 5 1983
FILE

TO: MR. D.R. HAWKE

FROM: J.E. HANNESON

SUBJECT: GEOPHYSICAL TESTING OF THE MEISTER RIVER LEAD-ZINC OCCURRENCES

The Meister Project was visited briefly in July of 1983 by myself, E. McGowan (Raven Geophysics Ltd. under contract to Getty), D.R. Hawke and L. Bloom for the purpose of examining lead/zinc occurrences. Horizontal loop EM (MaxMin II) and VLF-EM (Geonics EM-16) surveys were carried out near two known showings: the Northwest Zone (L2800E) and the Y53 Pits (L6200N). In early August 1983 the property was revisited with an IP/Resistivity crew (R. Fernholm and J. Marsh) and equipment (IPV-1 Receiver, IPT-1 Transmitter) from Phoenix Geophysics Ltd., Toronto, to test the polarizability of the Northwest Zone.

Northwest Zone (L2800E)

The VLF-EM survey of L2800E ranged from 5000N to 3175N in 25 m stations while the HLEM survey points range from 4900N to 3450N. Prominant conductive zones (see Figure 1) were detected at 3730N and 4000N along with a broad or multiple zone from 4280N to 4330N. These features are well-delineated by the DIGHEM Ltd. airborne EM survey and could reasonably be evaluated as stratigraphic graphite unless the final report on gravity surveying by Ager, Baretta and Ellis, Vancouver, suggests coincident gravity anomalies. Less prominant is a conductor at 4790N. It is a weakly conductive zone revealed only by the VLF-EM and high frequency (1777 H_z) HLEM surveys. The strike and strike extent are unknown and it was not detected by the airborne EM survey.

Perhaps of greater importance is the exceedingly weak VLF-EM response at 4550N coincident with lead-zinc mineralization in the nearby trench. The anomaly could conceiveably be traced along strike by an ardent and determined EM-16 operator. This zone was also detected by the induced polarization survey but only when very short (12.5m) dipoles were employed (see Figure 2). The lack of coherent response using 50 metre dipoles (Figure 3) makes it improbable that the zone has a significant depth extent. We have recently been informed by Phoenix Geophysics, Ltd. that even the 12.5 metre dipole data is not sufficiently coherent to permit an automated computer interpretation.

Y53 Pits (L6200N)

VLF-EM and HLEM test surveys on line 6200N (see Figure 4) revealed a conductor at 7860E (more likely a broad or multiple zone from 7800E to 7880E) along with weak zone near 8300E. This latter zone occurs at the end of the survey line and is not completely defined. The prominent zone at 7860E was revealed by the airborne EM survey although its location was uncertain due to poor flight line orientation. Further qualification of the conductors as being related to sulphides rather than graphite should await the final report on gravity surveying.

J.E. Hanneson
/sf

APPENDIX "F"

ASSAYS AND ANALYSES

SOIL, STREAM SEDIMENT AND WATER SAMPLE RESULTS
DIAMOND DRILL HOLE RESULTS
ROCK GEOCHEMISTRY AND RECONNAISSANCE TRENCHING RESULTS
WEST ZONE TRENCH RESULTS

SOIL, STREAM SEDIMENT AND WATER SAMPLE RESULTS

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S 00E-2100N		32	149	0.4		S 200E-2900N		10	46	<0.2	
S 00E-2150N		27	127	0.6		S 200E-2950N		24	82	0.2	
S 00E-2250N		18	40	0.2		S 200E-3000N		27	126	0.3	
S 00E-2300N		22	110	0.3		S 200E-3050N		28	91	0.3	
S 00E-2350N		6	30	<0.2		S 200E-3100N		45	207	0.4	
S 00E-2400N		12	56	0.2		S 200E-3150N		74	136	0.4	
S 00E-2450N		25	91	0.4		S 200E-3200N		82	129	0.4	
S 00E-2500N		23	48	<0.2		S 200E-3250N		35	201	1.0	
S 00E-2550N		15	58	0.7		S 200E-3300N		46	209	1.4	
S 00E-2600N		24	54	<0.2		S 200E-3350N		54	210	1.4	
S 00E-2650N		25	86	0.3		S 200E-3400N		140	279	2.4	
S 00E-2700N		52	132	0.5		S 200E-3450N		50	229	1.5	
S 00E-2750N		44	102	0.5		S 200E-3550N		76	207	2.0	
S 00E-2800N		54	105	0.9		S 200E-3600N		170	296	2.0	
S 00E-2850N		45	105	0.2		S 200E-3650N		140	291	2.3	
S 00E-3050N		50	143	0.6		S 200E-3700N		67	182	0.7	
S 00E-3100N		93	193	0.4		S 200E-3750N		80	200	0.9	
S 00E-3150N		51	74	<0.2		S 200E-3800N		92	141	0.4	
S 00E-3200N		32	128	0.3		S 200E-3850N		82	147	0.4	
S 00E-3250N		38	161	0.4		S 200E-3900N		65	200	0.5	
S 00E-3350N		108	397	3.9		S 200E-4000N		120	315	1.5	
S 00E-3400N		66	220	1.6		S 200E-4050N		83	226	0.9	
S 00E-3450N		98	376	2.8		S 200E-4100N		53	115	<0.2	
S 200E-2050N		19	172	<0.2		S 200E-4150N		17	128	0.4	
S 200E-2100N		25	122	0.3		S 200E-4200N		23	59	<0.2	
S 200E-2150N		29	185	0.3		S 200E-4250N		30	82	<0.2	
S 200E-2200N		17	115	0.3		S 200E-4300N		24	41	0.4	
S 200E-2250N		16	174	1.0		S 200E-4350N		21	40	0.3	
S 200E-2300N		26	41	0.5		S 200E-4400N		15	23	<0.2	
S 200E-2350N		25	45	<0.2		S 200E-4450N		20	40	0.2	
S 200E-2400N		20	21	<0.2		S 200E-4500N		20	64	0.4	
S 200E-2450N		31	60	0.4		S 200E-4550N		20	21	<0.2	
S 200E-2500N		52	58	0.4		S 200E-4600N		35	18	0.2	
S 200E-2550N		30	66	0.2		S 200E-4650N		25	33	0.3	
S 200E-2600N		24	63	0.2		S 200E-4700N		47	48	1.1	
S 200E-2650N		42	93	<0.2		S 200E-4750N		15	9	0.7	
S 200E-2700N		41	85	0.3		S 200E-4800N		24	24	0.5	
S 200E-2750N		18	54	0.2		S 200E-4850N		34	53	1.4	
S 200E-2800N		47	115	<0.2		S 200E-4900N		15	16	<0.2	
S 200E-2850N		4	17	<0.2		S 200E-4950N		14	13	0.2	

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SAMPLE ELEMENT	Pb	Zn	Ag	NOTES	SAMPLE ELEMENT	Pb	Zn	Ag	NOT
NUMBER UNITS	PPM	PPM	PPM		NUMBER UNITS	PPM	PPM	PPM	
S 200E-5050N	15	32	0.2		S 400W-2550N	65	440	0.6	
S 200E-5100N	14	20	0.2		S 400W-2600N	41	110	0.3	
S 200E-5150N	9	26	<0.2		S 400W-2650N	150	159	2.3	
S 200E-5200N	9	17	<0.2		S 400W-2700N	66	293	1.9	
S 200E-5250N	13	22	0.2		S 400W-2750N	41	108	<0.2	
S 200W-2050N	21	61	0.3		S 400W-2800N	99	229	0.3	
S 200W-2150N	30	106	0.4		S 400W-2850N	30	90	<0.2	
S 200W-2300N	30	135	0.2		S 400W-2900N	52	67	<0.2	
S 200W-2350N	36	90	0.3		S 400W-2950N	46	135	<0.2	
S 200W-2400N	22	99	0.5		S 400W-3000N	45	185	0.6	
S 200W-2450N	30	144	0.7		S 400W-3050N	95	265	3.1	
S 200W-2500N	10	35	<0.2		S 400W-3100N	25	49	<0.2	
S 200W-2550N	35	87	0.3		S 400W-3150N	40	57	<0.2	
S 200W-2600N	38	171	<0.2		S 400W-3200N	27	69	<0.2	
S 200W-2650N	69	215	0.5		S 400W-3250N	150	196	4.3	
S 200W-2700N	71	111	0.2		S 400W-3300N	110	1050	19.0	
S 200W-2750N	65	206	0.6		S 400W-3350N	67	201	0.6	
S 200W-2800N	34	67	0.2		S 400W-3400N	92	166	0.3	
S 200W-2850N	54	90	0.3		S 400W-3450N	80	420	0.6	
S 200W-2900N	26	82	<0.2		S 400W-3500N	44	136	<0.2	
S 200W-2950N	30	59	<0.2		S 400W-3550N	42	301	0.3	
S 200W-3000N	46	171	0.4		S 400W-3600N	76	322	<0.2	
S 200W-3050N	54	153	0.4		S 400W-3650N	41	142	<0.2	
S 200W-3150N	22	111	<0.2		S 400W-3700N	47	148	0.3	
S 200W-3200N	22	70	<0.2		S 400W-3750N	52	175	<0.2	
S 200W-3250N	54	107	1.0		S 400W-3800N	45	245	<0.2	
S 200W-3300N	44	201	0.4		S 400W-3850N	31	220	<0.2	
S 200W-3350N	80	235	0.8		S 400W-3900N	53	107	0.3	
S 200W-3400N	78	400	0.5		S 400W-3950N	44	178	1.1	
S 200W-3450N	160	250	0.5		S 400W-4000N	54	231	1.2	
S 400W-2050N	11	53	<0.2		S 400W-4050N	39	198	0.8	
S 400W-2100N	20	49	<0.2		S 400W-4100N	44	100	1.3	
S 400W-2150N	27	81	0.2		S 400W-4150N	48	116	2.3	
S 400W-2200N	40	162	0.6		S 400W-4200N	16	43	0.3	
S 400W-2250N	16	77	0.5		S 400W-4250N	21	76	0.7	
S 400W-2300N	27	63	0.8		S 400W-4300N	18	43	0.3	
S 400W-2350N	28	80	0.5		S 400W-4350N	12	46	0.5	
S 400W-2400N	34	108	0.7		S 400W-4400N	65	57	0.5	
S 400W-2450N	19	50	<0.2		S 400W-4450N	116	100	2.8	
S 400W-2500N	25	62	<0.2		S 400W-4500N	45	66	0.5	

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S 400W-4550N	31	26	0.2		S 600E-3800N	170	480	2.7	
S 400W-4600N	15	14	0.2		S 600E-3850N	75	219	0.2	
S 400W-4650N	50	99	0.3		S 600E-3900N	75	194	0.4	
S 400W-4700N	23	53	0.3		S 600E-3950N	90	111	0.4	
S 400W-4750N	19	108	0.2		S 600E-4000N	74	193	0.5	
S 400W-4800N	95	142	1.0		S 600E-4050N	40	136	0.2	
S 400W-4850N	64	57	0.3		S 600E-4100N	55	138	1.0	
S 400W-4900N	54	76	0.2		S 600E-4150N	44	242	<0.2	
S 400W-4950N	26	38	0.2		S 600E-4200N	100	176	0.6	
S 600E-2050N	14	30	<0.2		S 600E-4250N	93	278	0.5	
S 600E-2100N	20	63	0.2		S 600E-4300N	94	257	0.3	
S 600E-2150N	4	10	<0.2		S 600E-4350N	35	85	<0.2	
S 600E-2300N	14	39	<0.2		S 600E-4400N	125	309	0.4	
S 600E-2350N	10	21	<0.2		S 600E-4450N	72	640	0.8	
S 600E-2400N	26	33	<0.2		S 600E-4500N	27	116	1.1	
S 600E-2450N	22	38	0.3		S 600E-4550N	12	18	0.3	
S 600E-2500N	19	32	<0.2		S 600E-4600N	16	58	1.3	
S 600E-2550N	21	42	<0.2		S 600E-4650N	16	73	0.4	
S 600E-2600N	12	58	0.2		S 600E-4700N	19	63	0.5	
S 600E-2650N	12	46	<0.2		S 600E-4750N	29	400	0.4	
S 600E-2700N	13	39	<0.2		S 600E-4800N	71	180	0.9	
S 600E-2750N	15	35	<0.2		S 600E-4850N	69	398	1.5	
S 600E-2800N	19	59	<0.2		S 600E-4900N	98	240	0.4	
S 600E-2850N	27	95	0.5		S 600E-4950N	370	565	1.0	
S 600E-2900N	32	96	0.2		S 600E-5050N	38	94	<0.2	
S 600E-2950N	7	24	<0.2		S 600E-5100N	145	935	0.6	
S 600E-3000N	30	115	0.3		S 600E-5250N	12	10	<0.2	
S 600E-3050N	65	243	0.4		S 600E-5300N	24	31	0.4	
S 600E-3100N	56	311	0.5		S 600E-5350N	27	74	0.3	
S 600E-3150N	60	230	0.4		S 600E-5400N	33	58	<0.2	
S 600E-3200N	40	154	0.3		S 600E-5450N	24	39	0.3	
S 600E-3250N	43	200	0.5		S 600E-5500N	31	53	0.2	
S 600E-3300N	65	143	<0.2		S 600E-5550N	19	55	<0.2	
S 600E-3350N	64	143	0.8		S 600E-5600N	15	48	<0.2	
S 600E-3400N	41	87	0.2		S 800E-2050N	15	50	<0.2	
S 600E-3550N	73	264	<0.2		S 800E-2100N	14	26	<0.2	
S 600E-3600N	62	162	0.8		S 800E-2150N	10	27	<0.2	
S 600E-3650N	63	150	1.5		S 800E-2200N	2	15	<0.2	
S 600E-3700N	116	198	0.9		S 800E-2250N	6	14	<0.2	
S 600E-3750N	278	356	3.2		S 800E-2300N	5	17	<0.2	

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SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTE
S 800E-2350N	9	16	<0.2		S 800E-4400N	51	249	0.8	
S 800E-2400N	10	20	<0.2		S 800E-4450N	83	184	0.4	
S 800E-2450N	17	22	<0.2		S 800E-4500N	56	227	1.0	
S 800E-2500N	17	28	<0.2		S 800E-4550N	65	297	0.9	
S 800E-2550N	18	39	<0.2		S 800E-4600N	67	330	1.0	
S 800E-2600N	25	118	<0.2		S 800E-4650N	56	98	0.5	
S 800E-2650N	17	88	<0.2		S 800E-4700N	169	435	2.6	
S 800E-2700N	9	39	<0.2		S 800E-4750N	80	195	3.1	
S 800E-2750N	24	48	<0.2		S 800E-4800N	201	158	2.6	
S 800E-2800N	15	32	<0.2		S 800E-4850N	49	146	0.9	
S 800E-2850N	18	56	<0.2		S 800E-4900N	52	199	0.7	
S 800E-2900N	22	46	<0.2		S 800E-4950N	72	287	1.0	
S 800E-2950N	12	67	<0.2		S 800E-5050N	279	415	3.2	
S 800E-3000N	21	91	<0.2		S 800E-5100N	166	257	1.0	
S 800E-3050N	44	139	<0.2		S 800E-5200N	46	194	0.2	
S 800E-3100N	49	148	0.4		S 800E-5250N	25	103	0.9	
S 800E-3150N	125	125	0.5		S 800E-5300N	27	81	0.2	
S 800E-3200N	46	90	<0.2		S 800E-5350N	15	80	0.2	
S 800E-3250N	39	95	<0.2		S 800E-5400N	27	55	0.3	
S 800E-3300N	32	76	<0.2		S 800E-5450N	37	64	0.4	
S 800E-3350N	28	82	<0.2		S 800E-5500N	19	53	0.4	
S 800E-3400N	56	152	0.4		S 800E-5550N	36	144	1.4	
S 800E-3450N	52	119	<0.2		S 800E-5600N	10	44	0.4	
S 800E-3550N	23	89	<0.2		S 800E-5650N	10	41	0.2	
S 800E-3600N	52	148	0.3		S 800E-5700N	25	55	1.0	
S 800E-3650N	78	192	1.7		S 800E-5750N	13	51	0.2	
S 800E-3700N	81	159	1.5		S 800E-5800N	17	100	0.2	
S 800E-3750N	89	348	1.0		S 1000E-2050N	33	52	0.2	
S 800E-3800N	42	142	0.3		S 1000E-2100N	13	27	<0.2	
S 800E-3850N	169	284	2.1		S 1000E-2150N	20	33	<0.2	
S 800E-3900N	93	189	1.7		S 1000E-2200N	30	30	<0.2	
S 800E-3950N	94	163	0.3		S 1000E-2250N	8	28	<0.2	
S 800E-4000N	68	142	0.2		S 1000E-2300N	7	22	<0.2	
S 800E-4050N	75	108	1.0		S 1000E-2350N	9	28	<0.2	
S 800E-4100N	83	147	0.6		S 1000E-2400N	10	34	0.2	
S 800E-4150N	80	141	0.6		S 1000E-2450N	11	45	0.2	
S 800E-4200N	144	142	0.4		S 1000E-2500N	15	39	0.3	
S 800E-4250N	130	127	0.6		S 1000E-2550N	14	94	<0.2	
S 800E-4300N	60	109	0.2		S 1000E-2600N	23	110	0.2	
S 800E-4350N	33	133	0.5		S 1000E-2650N	21	125	<0.2	

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOT
S 1000E-2700N	16	37	<0.2		S 1000E-4800N	88	345	0.4	
S 1000E-2750N	12	39	<0.2		S 1000E-4850N	92	328	0.6	
S 1000E-2800N	43	59	0.2		S 1000E-4900N	77	340	1.7	
S 1000E-2850N	13	66	<0.2		S 1000E-4950N	68	201	1.2	
S 1000E-2900N	23	53	<0.2		S 1000E-5050N	110	430	1.6	
S 1000E-2950N	24	133	0.7		S 1000E-5100N	94	221	0.4	
S 1000E-3000N	27	77	<0.2		S 1000E-5150N	135	465	2.1	
S 1000E-3050N	30	87	0.2		S 1000E-5200N	69	382	0.7	
S 1000E-3100N	27	90	0.5		S 1000E-5250N	29	121	<0.2	
S 1000E-3150N	35	152	0.3		S 1000E-5300N	40	141	0.2	
S 1000E-3200N	34	96	<0.2		S 1000E-5350N	24	101	0.5	
S 1000E-3250N	16	29	<0.2		S 1000E-5400N	24	40	0.2	
S 1000E-3300N	42	126	<0.2		S 1000E-5450N	20	41	0.2	
S 1000E-3350N	38	171	0.4		S 1000E-5500N	18	47	0.2	
S 1000E-3400N	47	224	0.4		S 1000E-5550N	24	59	0.6	
S 1000E-3450N	64	168	0.6		S 1000E-5600N	79	83	0.3	
S 1000E-3550N	41	105	0.2		S 1000E-5650N	35	113	0.7	
S 1000E-3600N	100	158	1.2		S 1000E-5700N	44	88	0.5	
S 1000E-3650N	86	217	1.1		S 1000E-5750N	16	46	<0.2	
S 1000E-3700N	84	296	1.2		S 1000E-5800N	25	67	0.8	
S 1000E-3750N	117	193	1.9		S 1000E-5850N	17	36	0.4	
S 1000E-3800N	80	219	0.2		S 1000E-5900N	22	43	0.4	
S 1000E-3850N	115	328	1.2		S 1000E-5950N	17	25	0.3	
S 1000E-3900N	62	135	0.7		S 1000E-6000N	19	41	<0.2	
S 1000E-3950N	106	138	1.2		S 1200E-2050N	39	103	<0.2	
S 1000E-4000N	79	163	1.2		S 1200E-2100N	32	64	<0.2	
S 1000E-4100N	94	172	1.2		S 1200E-2150N	46	86	<0.2	
S 1000E-4150N	109	204	0.2		S 1200E-2200N	21	57	0.2	
S 1000E-4200N	61	120	<0.2		S 1200E-2250N	32	74	<0.2	
S 1000E-4250N	95	119	0.4		S 1200E-2300N	13	56	0.2	
S 1000E-4300N	61	144	<0.2		S 1200E-2350N	17	74	<0.2	
S 1000E-4350N	109	114	<0.2		S 1200E-2400N	13	47	<0.2	
S 1000E-4400N	75	156	0.3		S 1200E-2450N	15	50	<0.2	
S 1000E-4450N	58	127	0.3		S 1200E-2500N	10	24	<0.2	
S 1000E-4500N	64	137	0.6		S 1200E-2550N	12	89	0.3	
S 1000E-4550N	62	239	<0.2		S 1200E-2600N	11	71	<0.2	
S 1000E-4600N	70	208	0.6		S 1200E-2650N	12	38	<0.2	
S 1000E-4650N	69	152	1.8		S 1200E-2700N	27	146	<0.2	
S 1000E-4700N	64	372	1.9		S 1200E-2750N	17	115	<0.2	
S 1000E-4750N	66	307	1.4		S 1200E-2800N	30	177	<0.2	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S 1200E-2850N		24	134	<0.2		S 1400E-2400N		14	106	0.2	
S 1200E-2900N		40	178	<0.2		S 1400E-2450N		18	104	0.2	
S 1200E-2950N		28	185	<0.2		S 1400E-2500N		13	40	<0.2	
S 1200E-3000N		43	161	0.3		S 1400E-2550N		14	35	<0.2	
S 1200E-3050N		30	163	0.3		S 1400E-2600N		16	96	0.2	
S 1200E-3100N		27	192	<0.2		S 1400E-2650N		12	99	0.2	
S 1200E-3150N		42	95	0.3		S 1400E-2700N		11	59	0.2	
S 1200E-3200N		27	85	0.2		S 1400E-2750N		348	845	<0.2	
S 1200E-3250N		39	210	0.5		S 1400E-2800N		107	445	0.3	
S 1200E-3300N		43	155	0.3		S 1400E-2850N		115	285	4.2	
S 1200E-3350N		32	152	0.2		S 1400E-2900N		43	297	0.4	
S 1200E-3400N		38	344	0.6		S 1400E-2950N		48	400	1.0	
S 1200E-3450N		33	103	0.2		S 1400E-3000N		30	535	0.3	
S 1200E-5050N		69	117	1.3		S 1400E-3050N		21	52	0.2	
S 1200E-5100N		61	137	0.6		S 1400E-3100N		25	125	0.2	
S 1200E-5150N		75	212	0.7		S 1400E-3150N		19	106	0.4	
S 1200E-5200N		62	121	0.5		S 1400E-3200N		34	132	<0.2	
S 1200E-5250N		41	141	0.7		S 1400E-3250N		36	156	0.3	
S 1200E-5300N		110	450	1.0		S 1400E-3300N		36	122	0.6	
S 1200E-5350N		41	199	1.0		S 1400E-3350N		32	113	0.2	
S 1200E-5400N		25	56	0.3		S 1400E-3400N		37	136	0.4	
S 1200E-5450N		23	46	0.3		S 1400E-3450N		52	170	0.4	
S 1200E-5500N		27	53	0.3		S 1400E-3500N		49	167	0.6	
S 1200E-5550N		39	53	0.4		S 1400E-3550N		42	219	0.3	
S 1200E-5600N		27	49	0.3		S 1400E-3600N		30	95	0.2	
S 1200E-5650N		17	46	0.2		S 1400E-3650N		49	126	0.5	
S 1200E-5700N		18	33	0.4		S 1400E-3700N		60	360	0.7	
S 1200E-5750N		17	51	0.2		S 1400E-3750N		74	192	1.0	
S 1200E-5800N		14	42	<0.2		S 1400E-3800N		49	190	0.5	
S 1200E-5850N		44	44	<0.2		S 1400E-3850N		112	207	1.0	
S 1200E-5900N		10	14	<0.2		S 1400E-3900N		65	350	0.8	
S 1200E-5950N		10	18	<0.2		S 1400E-3950N		61	191	0.7	
S 1200E-6000N		27	49	<0.2		S 1400E-4000N		102	180	1.1	
S 1400E-2050N		16	82	<0.2		S 1400E-4050N		73	192	1.1	
S 1400E-2100N		24	101	0.2		S 1400E-4100N		80	217	0.9	
S 1400E-2150N		39	129	<0.2		S 1400E-4150N		69	228	0.7	
S 1400E-2200N		38	159	<0.2		S 1400E-4200N		62	226	1.1	
S 1400E-2250N		56	156	<0.2		S 1400E-4250N		119	267	1.6	
S 1400E-2300N		40	100	<0.2		S 1400E-4300N		64	221	0.5	
S 1400E-2350N		23	106	<0.2		S 1400E-4350N		79	216	0.3	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTE
S 1400E-4400N		87	226	1.0		S 2000N-1850E		11	89	<0.2	
S 1400E-4450N		74	144	1.2		S 2000N-1900E		9	84	<0.2	
S 1400E-4500N		27	117	0.5		S 2000N-1950E		8	78	<0.2	
S 1400E-4550N		62	207	0.3		S 2000N-2000E		9	79	<0.2	
S 1400E-4600N		79	186	0.2		S 2000N-2050E		13	80	<0.2	
S 1400E-4650N		64	254	0.9		S 2000N-2100E		5	43	<0.2	
S 1400E-4700N		69	198	0.4		S 2000N-2150E		8	74	<0.2	
S 1400E-4750N		71	196	0.2		S 2000N-2200E		9	59	<0.2	
S 1400E-4800N		45	110	<0.2		S 2000N-2250E		12	72	<0.2	
S 1400E-4850N		48	249	1.3		S 2000N-2300E		8	72	<0.2	
S 1400E-4900N		68	254	1.5		S 2000N-2350E		11	81	<0.2	
S 1400E-4950N		100	167	1.3		S 2000N-2400E		7	61	<0.2	
S 2000N-400E		29	163	<0.2		S 3500N-00E		331	545	2.0	
S 2000N-450E		27	106	<0.2		S 3500N-50E		535	515	1.4	
S 2000N-500E		13	66	<0.2		S 3500N-100E		100	276	1.5	
S 2000N-600E		26	119	<0.2		S 3500N-150E		72	221	2.0	
S 2000N-650E		28	83	<0.2		S 3500N-200E		80	264	1.8	
S 2000N-700E		31	65	<0.2		S 3500N-250E		68	233	1.9	
S 2000N-750E		32	67	<0.2		S 3500N-300E		89	213	2.1	
S 2000N-800E		36	54	<0.2		S 3500N-350E		65	317	2.4	
S 2000N-850E		50	59	<0.2		S 3500N-400E		68	179	2.0	
S 2000N-900E		44	81	0.4		S 3500N-450E		92	172	1.3	
S 2000N-950E		23	36	<0.2		S 3500N-500E		78	238	0.5	
S 2000N-1000E		59	154	0.2		S 3500N-550E		92	1065	1.2	
S 2000N-1050E		28	73	<0.2		S 3500N-600E		79	161	1.1	
S 2000N-1100E		30	58	0.2		S 3500N-650E		55	170	0.6	
S 2000N-1150E		38	84	<0.2		S 3500N-700E		50	145	1.2	
S 2000H-1200E		46	110	<0.2		S 3500N-750E		48	106	0.2	
S 2000N-1250E		47	134	<0.2		S 3500N-800E		37	99	0.2	
S 2000N-1300E		42	140	<0.2		S 3500N-850E		31	130	<0.2	
S 2000N-1350E		43	159	0.3		S 3500N-900E		38	183	<0.2	
S 2000N-1400E		18	93	<0.2		S 3500N-950E		47	137	0.3	
S 2000N-1450E		17	80	<0.2		S 3500N-1000EA		48	211	<0.2	
S 2000N-1500E		22	91	<0.2		S 3500N-1000EB		51	217	0.3	
S 2000N-1550E		14	81	<0.2		S 3500N-1050E		40	108	0.2	
S 2000N-1600E		16	90	<0.2		S 3500N-1100E		56	103	0.4	
S 2000N-1650E		11	84	<0.2		S 3500N-1150E		57	125	0.4	
S 2000N-1700E		15	111	<0.2		S 3500N-1200E		49	271	0.5	
S 2000N-1750E		11	77	<0.2		S 3500N-1250E		56	114	<0.2	
S 2000N-1800E		12	90	<0.2		S 3500N-1300E		49	197	0.2	

SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S 3500N-1350E	49	210	<0.2		S 5000N-1700E	21	62	<0.2	
S 3500N-50W	254	615	1.6		S 5000N-1750E	17	43	<0.2	
S 3500N-100W	356	555	2.0		S 5000N-1800E	20	149	<0.2	
S 3500N-200W	117	247	0.3		S 5000N-50W	99	43	<0.2	
S 3500N-250W	52	373	0.3		S 5000N-100W	54	56	0.6	
S 3500N-300W	52	189	0.4		S 5000N-150W	71	78	0.3	
S 3500N-350W	48	285	0.4		S 5000N-200W	49	31	0.3	
S 5000N-00E	19	37	<0.2		S 5000N-250W	35	132	0.2	
S 5000N-50E	30	55	<0.2		S 5000N-300W	12	22	<0.2	
S 5000N-100E	14	35	<0.2		S 5000N-350W	28	60	<0.2	
S 5000N-150E	31	41	0.5		S 5000N-400W	27	56	<0.2	
S 5000N-200E	45	84	0.4		T M3J-001SS	26	95	<0.2	
S 5000N-250E	19	27	<0.2		T M3J-002SS	29	96	<0.2	
S 5000N-300E	27	22	0.2		T M3J-003SS	28	101	<0.2	
S 5000N-350E	10	8	<0.2		T M3J-004SS	25	92	<0.2	
S 5000N-400E	39	41	0.2		T M3J-005SS	27	112	<0.2	
S 5000N-450E	27	34	<0.2		T M3J-006SS	24	102	<0.2	
S 5000N-500E	34	79	1.7		T M3J-007SS	24	99	<0.2	
S 5000N-550E	1045	1020	7.6		T M3J-008SS	25	106	<0.2	
S 5000N-600E	124	600	0.5		T M3J-009SS	26	109	<0.2	
S 5000N-650E	505	815	4.3		T M3J-010SS	54	131	<0.2	
S 5000N-700E	127	935	1.9		T M3J-011SS	29	110	<0.2	
S 5000N-750E	183	315	2.0		T M3J-012SS	26	95	<0.2	
S 5000N-800E	74	257	0.4		T M3J-013SS	26	106	<0.2	
S 5000N-850E	109	370	2.1		T M3J-014SS	32	120	<0.2	
S 5000N-950E	49	247	1.9		T M3J-015SS	35	120	<0.2	
S 5000N-1000E	80	216	0.4		T M3J-016SS	25	99	<0.2	
S 5000N-1050E	63	156	0.2		T M3J-017SS	25	101	<0.2	
S 5000N-1100E	58	167	0.4		T M3J-018SS	22	94	<0.2	
S 5000N-1150E	70	153	1.2		T M3J-019SS	36	207	0.7	
S 5000N-1200E	142	555	1.5		T M3J-020SS	22	85	<0.2	
S 5000N-1250E	74	169	0.3		T M3J-021SS	29	105	<0.2	
S 5000N-1300E	73	184	0.9		T M3J-022SS	22	102	<0.2	
S 5000N-1350E	127	302	2.0		T M3J-023SS	29	97	<0.2	
S 5000N-1400E	149	272	0.9		T M3J-024SS	23	84	<0.2	
S 5000N-1450E	84	223	1.5		T M3J-025SS	33	102	0.2	
S 5000N-1500E	105	237	3.9		T M3K-001SS	8	44	0.2	
S 5000N-1550E	58	120	0.2		T M3K-002SS	42	475	1.0	
S 5000N-1600E	47	74	0.3		T M3K-003SS	37	575	1.0	
S 5000N-1650E	28	102	<0.2		T M3K-004SS	36	635	1.6	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTE
T M3K-005SS		31	400	0.7		T M3K-049SS		44	76	<0.2	
T M3K-006SS		33	371	0.9		T M3K-053SS		69	226	1.0	
T M3K-007SS		30	239	0.3		T M3K-054SS		87	382	0.3	
T M3K-008SS		23	185	<0.2							
T M3K-009SS		21	114	0.4							
T M3K-010SS		26	353	0.7							
T M3K-011SS		27	225	0.4							
T M3K-012SS		27	310	0.8							
T M3K-013SS		28	211	0.5							
T M3K-014SS		36	450	1.1							
T M3K-015SS		24	162	0.2							
T M3K-016SS		27	269	0.8							
T M3K-017SS		29	195	0.2							
T M3K-019SS		28	296	0.6							
T M3K-020SS		35	355	1.7							
T M3K-021SS		23	165	0.2							
T M3K-022SS		21	153	0.2							
T M3K-023SS		25	177	0.2							
T M3K-024SS		31	107	0.2							
T M3K-025SS		17	111	<0.2							
T M3K-026SS		36	154	0.3							
T M3K-027SS		45	188	0.3							
T M3K-028SS		35	202	0.3							
T M3K-029SS		34	152	0.2							
T M3K-030SS		37	246	0.3							
T M3K-031SS		26	120	<0.2							
T M3K-032SS		19	104	<0.2							
T M3K-033SS		34	189	0.2							
T M3K-034SS		24	135	<0.2							
T M3K-035SS		31	174	<0.2							
T M3K-036SS		23	112	<0.2							
T M3K-037SS		51	188	0.3							
T M3K-038SS		27	144	<0.2							
T M3K-039SS		25	134	<0.2							
T M3K-040SS		27	179	<0.2							
T M3K-041SS		23	99	<0.2							
T M3K-042SS		83	163	0.2							
T M3K-043SS		145	235	0.4							
T M3K-046SS		94	104	1.3							
T M3K-047SS		49	58	0.2							

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NO
S 00E-3550N		383	480	2.4		S 200W-4200N		44	101	0.4	
S 00E-3600N		313	415	2.2		S 200W-4250N		21	79	0.6	
S 00E-3650N		169	294	1.1		S 200W-4300N		20	42	0.7	
S 00E-3700N		165	329	1.1		S 200W-4350N		35	51	0.5	
S 00E-3750N		130	302	1.2		S 200W-4400N		48	41	0.3	
S 00E-3800N		145	195	0.5		S 200W-4450N		24	14	0.4	
S 00E-3850N		66	181	0.2		S 200W-4500N		38	33	0.3	
S 00E-3900N		91	295	0.7		S 200W-4550N		52	38	0.6	
S 00E-3950N		153	372	1.2		S 200W-4650N		39	53	<0.2	
S 00E-4000N		149	390	1.2		S 200W-4700N		17	63	0.2	
S 00E-4050N		88	194	<0.2		S 200W-4750N		41	108	0.2	
S 00E-4100N		42	118	<0.2		S 200W-4800N		450	690	1.0	
S 00E-4150N		32	64	0.2		S 200W-4850N		16	22	<0.2	
S 00E-4200N		31	67	<0.2		S 200W-4900N		76	95	<0.2	
S 00E-4250N		27	56	0.2		S 200W-4950N		47	48	<0.2	
S 00E-4300N		25	59	0.3		S 400E-2050N		38	111	<0.2	
S 00E-4350N		30	50	0.2		S 400E-2100N		30	110	<0.2	
S 00E-4400N		18	21	<0.2		S 400E-2150N		8	17	<0.2	
S 00E-4450N		19	8	0.2		S 400E-2200N		15	65	<0.2	
S 00E-4500N		45	37	<0.2		S 400E-2250N		14	64	<0.2	
S 00E-4550N		54	44	1.8		S 400E-2300N		15	71	<0.2	
S 00E-4600N		18	16	<0.2		S 400E-2350N		11	23	<0.2	
S 00E-4650N		39	44	0.2		S 400E-2450N		49	34	0.2	
S 00E-4700N		46	51	0.2		S 400E-2600N		16	35	<0.2	
S 00E-4750N		76	46	0.3		S 400E-2650N		22	94	<0.2	
S 00E-4800N		10	19	0.3		S 400E-2700N		11	44	<0.2	
S 00E-4850N		13	10	<0.2		S 400E-2750N		29	75	0.2	
S 00E-4900N		29	38	<0.2		S 400E-2800N		29	63	<0.2	
S 00E-4950N		96	298	0.2		S 400E-2850N		21	30	<0.2	
S 200W-3550N		87	420	0.3		S 400E-2900N		28	62	0.2	
S 200W-3600N		146	303	0.3		S 400E-2950N		32	185	0.2	
S 200W-3650N		111	246	0.3		S 400E-3000N		25	122	0.2	
S 200W-3700N		47	131	0.3		S 400E-3100N		84	287	0.4	
S 200W-3750N		48	138	0.2		S 400E-3150N		37	174	0.3	
S 200W-3800N		83	174	0.8		S 400E-3200N		59	121	<0.2	
S 200W-3850N		58	266	0.7		S 400E-3250N		44	105	<0.2	
S 200W-3900N		325	535	0.7		S 400E-3300N		75	410	0.4	
S 200W-4000N		141	221	0.4		S 400E-3350N		66	605	0.2	
S 200W-4100N		56	90	<0.2		S 400E-3400N		47	386	0.4	
S 200W-4150N		52	109	0.3		S 400E-3450N		58	144	0.7	

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	Ag PPM	NO
S 400E-3550N	114	254	1.7		S 1200E-3900N	84	273	0.9	
S 400E-3600N	206	222	1.6		S 1200E-3950N	59	371	1.4	
S 400E-3650N	200	277	3.3		S 1200E-4000N	105	260	0.8	
S 400E-3700N	223	267	1.6		S 1200E-4050N	76	174	0.7	
S 400E-3750N	91	255	1.1		S 1200E-4100N	79	249	1.8	
S 400E-3800N	173	272	1.7		S 1200E-4150N	97	203	2.0	
S 400E-3850N	68	170	0.6		S 1200E-4200N	73	287	1.5	
S 400E-3950N	160	222	0.5		S 1200E-4250N	117	174	0.7	
S 400E-4100N	114	342	0.4		S 1200E-4300N	86	162	0.3	
S 400E-4150N	28	62	<0.2		S 1200E-4350N	97	126	0.6	
S 400E-4200N	140	420	0.3		S 1200E-4400N	112	164	0.6	
S 400E-4250N	120	530	0.3		S 1200E-4450N	129	176	0.5	
S 400E-4300N	79	211	0.8		S 1200E-4500N	118	134	0.2	
S 400E-4350N	43	109	<0.2		S 1200E-4550N	133	121	<0.2	
S 400E-4400N	89	440	0.4		S 1200E-4600N	75	233	0.5	
S 400E-4450N	36	82	0.4		S 1200E-4650N	56	278	0.4	
S 400E-4500N	33	55	<0.2		S 1200E-4700N	84	125	0.9	
S 400E-4550N	14	22	0.7		S 1200E-4750N	68	298	0.8	
S 400E-4600N	23	168	1.2		S 1200E-4800N	99	218	1.4	
S 400E-4650N	24	51	0.5		S 1200E-4850N	101	342	0.5	
S 400E-4700N	23	44	<0.2		S 1200E-4900N	67	199	1.4	
S 400E-4750N	54	103	0.5		S 1200E-4950N	85	205	0.4	
S 400E-4800N	46	400	0.6		S 1400E-5050N	103	475	0.5	
S 400E-4850N	183	590	1.0		S 1400E-5100N	132	183	0.4	
S 400E-4900N	710	1110	2.3		S 1400E-5150N	94	118	0.4	
S 400E-4950N	114	393	1.7		S 1400E-5200N	82	277	1.2	
S 400E-5050N	39	60	0.3		S 1400E-5250N	67	213	1.0	
S 400E-5100N	33	23	<0.2		S 1400E-5300N	76	202	2.1	
S 400E-5150N	23	39	<0.2		S 1400E-5400N	50	309	0.9	
S 400E-5200N	17	42	0.2		S 1400E-5450N	39	147	0.5	
S 400E-5250N	28	40	<0.2		S 1400E-5500N	17	50	<0.2	
S 400E-5300N	28	54	0.4		S 1400E-5550N	50	106	0.5	
S 400E-5350N	32	49	<0.2		S 1400E-5600N	48	97	<0.2	
S 1200E-3550N	43	151	0.4		S 1400E-5650N	27	50	<0.2	
S 1200E-3600N	60	114	0.4		S 1400E-5700N	68	174	1.6	
S 1200E-3650N	59	146	0.2		S 1400E-5750N	23	44	<0.2	
S 1200E-3700N	75	132	0.3		S 1400E-5800N	23	69	<0.2	
S 1200E-3750N	40	109	<0.2		S 1400E-5850N	26	47	<0.2	
S 1200E-3800N	72	226	0.4		S 1400E-5900N	25	50	<0.2	
S 1200E-3850N	103	276	0.9		S 1400E-5950N	20	64	<0.2	

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NO
S 1400E-6000N	19	71	0.3		S 1600E-6000N	28	66	0.5	
S 1600E-3750N	47	114	0.2		S 1600E-6150N	16	43	0.2	
S 1600E-3800N	70	133	0.4		S 1600E-6200N	16	61	<0.2	
S 1600E-3850N	62	173	0.5		S 1600E-6250N	12	47	<0.2	
S 1600E-3900N	126	334	0.8		T M3K-018SS	27	208	0.3	
S 1600E-3950N	64	181	0.6		T M3K-055SS	455	246	0.5	
S 1600E-4000N	69	234	1.1						
S 1600E-4050N	92	198	0.8						
S 1600E-4100N	69	165	0.3						
S 1600E-4150N	93	210	0.9						
S 1600E-4200N	93	175	0.4						
S 1600E-4250N	93	174	0.9						
S 1600E-4300N	89	200	1.0						
S 1600E-4350N	82	395	0.8						
S 1600E-4400N	73	194	0.7						
S 1600E-4450N	85	213	1.0						
S 1600E-4500N	281	142	<0.2						
S 1600E-4550N	111	147	<0.2						
S 1600E-4600N	69	87	0.3						
S 1600E-4650N	94	139	0.3						
S 1600E-4700N	85	98	0.2						
S 1600E-4750N	89	118	<0.2						
S 1600E-4800N	57	98	0.6						
S 1600E-4850N	44	128	0.5						
S 1600E-4900N	46	85	0.4						
S 1600E-4950N	150	109	<0.2						
S 1600E-5050N	61	149	<0.2						
S 1600E-5150N	28	84	0.2						
S 1600E-5200N	42	87	0.3						
S 1600E-5250N	30	56	<0.2						
S 1600E-5300N	44	101	<0.2						
S 1600E-5350N	26	64	<0.2						
S 1600E-5450N	33	80	<0.2						
S 1600E-5500N	19	49	<0.2						
S 1600E-5650N	23	67	<0.2						
S 1600E-5700N	23	49	<0.2						
S 1600E-5750N	17	56	<0.2						
S 1600E-5800N	24	108	<0.2						
S 1600E-5850N	26	96	0.5						
S 1600E-5900N	12	44	0.2						

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Geochemical Lab Report

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PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM
S 200S 1450E		18	50	<0.2		S 1400E 50N		19	73	<0.2
S 200S 1500E		33	65	<0.2		S 1400E 100N		21	89	<0.2
S 200S 1550E		22	47	<0.2		S 1400E 150N		24	96	<0.2
S 200S 1650E		43	131	<0.2		S 1400E 250N		34	92	<0.2
S 200S 1700E		36	123	0.4		S 1400E 300N		31	75	<0.2
S 200S 1750E		29	117	<0.2		S 1400E 350N		34	147	<0.2
S 200S 1800E		28	116	<0.2		S 1400E 400N		50	173	<0.2
S 200S 1850E		34	115	<0.2		S 1400E 450N		115	155	<0.2
S 200S 1900E		35	93	<0.2		S 1400E 500N		93	142	<0.2
S 200S 1950E		28	101	<0.2		S 1400E 550N		85	179	<0.2
S 200S 2000E		27	140	<0.2		S 1400E 600N		97	158	<0.2
S 200S 2050E		77	104	0.3		S 1400E 650N		35	121	<0.2
S 200S 2100E		64	131	0.3		S 1400E 700N		33	154	<0.2
S 200S 2150E		177	143	<0.2		S 1400E 750N		28	136	<0.2
S 200S 2200E		76	126	0.4		S 1400E 800N		25	119	<0.2
S 200S 2250E		109	174	<0.2		S 1400E 850N		26	131	<0.2
S 200S 2300E		328	251	0.6		S 1400E 900N		20	74	<0.2
S 200S 2350E		175	134	<0.2		S 1400E 950N		24	104	<0.2
S 200S 2400E		69	94	<0.2		S 1400E 1000N		23	125	<0.2
S 200S 2450E		56	95	<0.2		S 1400E 1050N		21	92	<0.2
S 200S 2500E		58	93	<0.2		S 1400E 1100N		16	82	<0.2
S 200S 2550E		49	84	<0.2		S 1400E 1150N		9	87	<0.2
S 200S 2600E		71	98	0.2		S 1400E 1200N		10	92	<0.2
S 200S 2650E		71	64	0.2		S 1400E 1250N		12	77	<0.2
S 200S 2700E		92	83	<0.2		S 1400E 1300N		17	95	<0.2
S 200S 2750E		71	71	<0.2		S 1400E 1350N		5	73	<0.2
S 200S 2800E		13	42	0.3		S 1400E 1400N		12	96	<0.2
S 200S 2850E		57	64	<0.2		S 1400E 1450N		12	99	<0.2
S 200S 2900E		58	77	<0.2		S 1400E 1500N		9	79	<0.2
S 200S 2950E		74	64	<0.2		S 1400E 1550N		14	54	<0.2
S 200S 3000E		58	77	<0.2		S 1400E 1600N		6	61	<0.2
S 200S 3050E		67	58	<0.2		S 1400E 1650N		10	58	<0.2
S 200S 3100E		57	65	<0.2		S 1400E 1700N		15	82	<0.2
S 200S 3150E		47	66	<0.2		S 1400E 1750N		9	37	<0.2
S 200S 3200E		31	74	<0.2		S 1400E 1800N		18	81	<0.2
S 200S 3250E		33	81	<0.2		S 1400E 1850N		12	72	<0.2
S 200S 3300E		45	72	<0.2		S 1400E 1900N		13	84	<0.2
S 200S 3350E		38	58	<0.2		S 1400E 1950N		18	90	<0.2
S 200S 3400E		42	91	<0.2		S 1400E 50S		24	99	<0.2
S 1400E 0N		19	70	<0.2		S 1400E 100S		19	58	<0.2

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SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	As PPM
S 1400E 150S	24	83	<0.2		S 1400W 4450N	19	111	0.2
S 1400E 200S	31	65	<0.2		S 1400W 4500N	24	154	0.2
S 1400W 2150N	30	73	<0.2		S 1400W 4550N	25	81	0.3
S 1400W 2200N	25	75	<0.2		S 1400W 4650N	21	77	<0.2
S 1400W 2250N	29	85	<0.2		S 1400W 4750N	26	100	<0.2
S 1400W 2350N	29	67	<0.2		S 1400W 4850N	26	92	<0.2
S 1400W 2400N	38	58	<0.2		S 1400W 4900N	27	110	<0.2
S 1400W 2450N	24	67	<0.2		S 1400W 4950N	30	68	<0.2
S 1400W 2500N	41	88	<0.2		S 1600E 0N	39	109	0.2
S 1400W 2550N	58	83	<0.2		S 1600E 50N	28	127	<0.2
S 1400W 2600N	35	88	<0.2		S 1600E 100N	32	115	<0.2
S 1400W 2650N	40	81	<0.2		S 1600E 150N	129	415	0.3
S 1400W 2700N	128	306	0.2		S 1600E 200N	46	107	<0.2
S 1400W 2750N	42	110	<0.2		S 1600E 250N	28	88	<0.2
S 1400W 2800N	22	73	<0.2		S 1600E 300N	68	240	<0.2
S 1400W 2900N	18	81	<0.2		S 1600E 350N	30	142	<0.2
S 1400W 2950N	24	97	<0.2		S 1600E 400N	91	118	<0.2
S 1400W 3000N	51	143	<0.2		S 1600E 450N	60	144	0.2
S 1400W 3050N	24	106	<0.2		S 1600E 500N	56	154	<0.2
S 1400W 3100N	24	76	<0.2		S 1600E 550N	52	106	<0.2
S 1400W 3150N	24	80	<0.2		S 1600E 600N	35	96	<0.2
S 1400W 3200N	19	49	<0.2		S 1600E 650N	32	91	<0.2
S 1400W 3300N	18	60	0.2		S 1600E 700N	27	89	<0.2
S 1400W 3350N	12	54	<0.2		S 1600E 750N	24	99	<0.2
S 1400W 3400N	13	59	0.2		S 1600E 800N	28	103	<0.2
S 1400W 3450N	134	240	0.2		S 1600E 850N	39	74	<0.2
S 1400W 3550N	129	164	0.5		S 1600E 900N	25	89	<0.2
S 1400W 3600N	50	119	<0.2		S 1600E 950N	16	83	<0.2
S 1400W 3650N	45	177	0.2		S 1600E 1000N	24	87	<0.2
S 1400W 3750N	19	131	<0.2		S 1600E 1050N	21	100	<0.2
S 1400W 3800N	20	101	<0.2		S 1600E 1100N	14	83	<0.2
S 1400W 3850N	17	116	<0.2		S 1600E 1150N	17	74	<0.2
S 1400W 3900N	41	94	<0.2		S 1600E 1200N	13	74	<0.2
S 1400W 3950N	15	99	<0.2		S 1600E 1250N	12	77	<0.2
S 1400W 4000N	16	70	<0.2		S 1600E 1300N	10	77	<0.2
S 1400W 4150N	19	62	<0.2		S 1600E 1350N	9	77	<0.2
S 1400W 4200N	26	61	<0.2		S 1600E 1400N	15	85	<0.2
S 1400W 4300N	11	60	<0.2		S 1600E 1450N	10	87	<0.2
S 1400W 4350N	22	100	<0.2		S 1600E 1500N	11	68	<0.2
S 1400W 4400N	20	101	<0.2		S 1600E 1550N	11	81	<0.2

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM
S 1600E 1600N	5	75	<0.2		S 1800E 1600N	8	55	<0.2
S 1600E 1650N	11	53	<0.2		S 1800E 1650N	16	105	<0.2
S 1600E 1700N	7	72	<0.2		S 1800E 1700N	17	76	<0.2
S 1600E 1750N	8	71	<0.2		S 1800E 1750N	9	67	<0.2
S 1600E 1800N	6	74	<0.2		S 1800E 1800N	9	69	<0.2
S 1600E 1850N	10	70	<0.2		S 1800E 1850N	8	65	<0.2
S 1600E 1900N	12	92	<0.2		S 1800E 50S	25	104	<0.2
S 1600E 1950N	8	54	<0.2		S 1800E 100S	29	88	<0.2
S 1600E 50S	27	90	<0.2		S 1800E 150S	41	145	<0.2
S 1600E 100S	42	86	<0.2		S 2000E 00N	28	95	<0.2
S 1600E 150S	28	83	<0.2		S 2000E 250N	29	96	<0.2
S 1800E 0N	39	101	<0.2		S 2000E 300N	26	84	<0.2
S 1800E 50N	62	75	<0.2		S 2000E 350N	28	99	<0.2
S 1800E 100N	49	101	<0.2		S 2000E 400N	29	88	<0.2
S 1800E 150N	81	115	0.2		S 2000E 450N	26	77	<0.2
S 1800E 200N	31	60	0.2		S 2000E 500N	28	10	<0.2
S 1800E 250N	43	79	<0.2		S 2000E 550N	33	111	<0.2
S 1800E 300N	38	68	<0.2		S 2000E 600N	24	97	<0.2
S 1800E 350N	24	68	<0.2		S 2000E 650N	24	87	<0.2
S 1800E 400N	21	67	<0.2		S 2000E 700N	22	82	<0.2
S 1800E 450N	32	113	<0.2		S 2000E 750N	16	85	<0.2
S 1800E 500N	32	125	<0.2		S 2000E 800N	27	94	<0.2
S 1800E 550N	55	103	0.2		S 2000E 850N	10	65	<0.2
S 1800E 600N	39	104	<0.2		S 2000E 900N	18	62	<0.2
S 1800E 650N	28	99	<0.2		S 2000E 950N	17	83	0.2
S 1800E 700N	23	97	<0.2		S 2000E 1000N	16	83	<0.2
S 1800E 750N	31	62	<0.2		S 2000E 1050N	16	69	0.3
S 1800E 800N	18	80	<0.2		S 2000E 1100N	21	69	<0.2
S 1800E 850N	20	80	<0.2		S 2000E 1150N	23	97	<0.2
S 1800E 900N	30	81	<0.2		S 2000E 1200N	19	78	<0.2
S 1800E 1100N	18	83	<0.2		S 2000E 1250N	12	72	<0.2
S 1800E 1150N	18	73	<0.2		S 2000E 1300N	15	65	<0.2
S 1800E 1200N	21	84	<0.2		S 2000E 1350N	12	72	0.4
S 1800E 1250N	15	74	<0.2		S 2000E 1400N	13	63	<0.2
S 1800E 1300N	15	89	<0.2		S 2000E 1450N	12	78	0.2
S 1800E 1350N	14	85	<0.2		S 2000E 1500N	13	65	<0.2
S 1800E 1400N	19	91	<0.2		S 2000E 1550N	9	68	<0.2
S 1800E 1450N	10	75	<0.2		S 2000E 1600N	14	86	<0.2
S 1800E 1500N	13	77	<0.2		S 2000E 1650N	10	79	<0.2
S 1800E 1550N	13	77	<0.2		S 2000E 1700N	10	81	<0.2

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM
S 2000E	1750N	10	71	<0.2		S 2600E	1000N	19	86	<0.2
S 2000E	1800N	10	80	<0.2		S 2600E	1050N	23	81	<0.2
S 2000E	1850N	9	72	0.2		S 2600E	1100N	15	78	<0.2
S 2000E	1900N	14	87	<0.2		S 2600E	1150N	20	93	<0.2
S 2000E	150S	31	121	0.3		S 2600E	1200N	24	66	<0.2
S 2000N	2450E	8	43	<0.2		S 2600E	1250N	12	68	<0.2
S 2000N	2500E	7	61	<0.2		S 2600E	1300N	12	58	<0.2
S 2000N	2550E	8	63	<0.2		S 2600E	1350N	23	95	0.2
S 2000N	2600E	3	42	<0.2		S 2600E	1450N	17	72	<0.2
S 2000N	2650E	18	71	<0.2		S 2600E	1500N	15	84	<0.2
S 2000N	2700E	7	56	<0.2		S 2600E	1550N	20	69	<0.2
S 2000N	2750E	10	87	<0.2		S 2600E	1600N	23	85	<0.2
S 2000N	2800E	12	95	<0.2		S 2600E	1650N	21	74	<0.2
S 2000N	2850E	11	75	<0.2		S 2600E	1700N	27	78	<0.2
S 2000N	2950E	54	68	<0.2		S 2600E	1750N	16	72	<0.2
S 2000N	3000E	104	110	0.7		S 2600E	1800N	59	58	<0.2
S 2000N	3050E	88	65	0.2		S 2600E	1850N	15	52	<0.2
S 2000N	3100E	44	76	<0.2		S 2600E	1900N	12	58	<0.2
S 2000N	3150E	62	85	<0.2		S 2600E	1950N	8	62	<0.2
S 2000N	3200E	22	66	<0.2		S 2600E	0S	93	116	0.6
S 2000N	3250E	46	107	<0.2		S 2600E	50S	55	90	<0.2
S 2000N	3300E	27	86	<0.2		S 2600E	100S	131	80	0.3
S 2000N	3350E	25	44	0.3		S 2600E	150S	66	84	<0.2
S 2000N	3400E	26	99	<0.2		S 3400E	0N	42	76	<0.2
S 2600E	50N	60	135	0.2		S 3400E	50N	23	62	0.2
S 2600E	200N	36	123	0.3		S 3400E	100N	45	80	<0.2
S 2600E	250N	51	148	0.3		S 3400E	150N	26	65	<0.2
S 2600E	300N	46	116	<0.2		S 3400E	200N	58	83	<0.2
S 2600E	350N	47	118	<0.2		S 3400E	250N	27	117	<0.2
S 2600E	450N	29	119	<0.2		S 3400E	300N	29	87	<0.2
S 2600E	500N	23	99	<0.2		S 3400E	350N	37	104	<0.2
S 2600E	550N	26	80	<0.2		S 3400E	400N	27	73	<0.2
S 2600E	600N	28	93	<0.2		S 3400E	450N	19	28	<0.2
S 2600E	650N	21	90	<0.2		S 3400E	500N	12	31	<0.2
S 2600E	700N	24	98	<0.2		S 3400E	550N	21	67	<0.2
S 2600E	750N	23	100	<0.2		S 3400E	600N	46	39	<0.2
S 2600E	800N	18	85	<0.2		S 3400E	650N	37	48	<0.2
S 2600E	850N	19	100	<0.2		S 3400E	700N	28	68	<0.2
S 2600E	900N	8	47	<0.2		S 3400E	750N	36	181	<0.2
S 2600E	950N	26	78	<0.2		S 3400E	800N	37	88	<0.2

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Geochemica
Lab Repor

REPORT: 123-2042 PROJECT: MEISTER

SAMPLE ELEMENT	Pb	Zn	As	NOTES	SAMPLE ELEMENT	Pb	Zn	As
NUMBER UNITS	PPM	PPM	PPM		NUMBER UNITS	PPM	PPM	PPM
S 3400E 850N	26	83	<0.2		T M3J 029SS	27	108	<0.2
S 3400E 900N	24	91	<0.2		T M3K 056SS	15	85	<0.2
S 3400E 950N	28	101	<0.2		T M3K 057SS	13	69	<0.2
S 3400E 1000N	25	98	0.2		T M3K 058SS	18	60	<0.2
S 3400E 1050N	40	102	<0.2		T M3K 059SS	17	47	<0.2
S 3400E 1100N	27	110	0.2		T M3K 060SS	33	68	<0.2
S 3400E 1150N	25	102	0.2		T M3K 061SS	59	117	<0.2
S 3400E 1200N	26	101	0.2		T M3K 062SS	64	140	<0.2
S 3400E 1250N	31	90	<0.2		T M3K 070SS	21	64	<0.2
S 3400E 1300N	25	128	<0.2					
S 3400E 1350N	88	97	<0.2					
S 3400E 1400N	26	52	0.2					
S 3400E 1450N	21	82	<0.2					
S 3400E 1500N	44	75	0.2					
S 3400E 1550N	44	78	<0.2					
S 3400E 1600N	28	73	<0.2					
S 3400E 1650N	51	76	<0.2					
S 3400E 1700N	4	112	<0.2					
S 3400E 1750N	37	84	<0.2					
S 3400E 1800N	32	73	<0.2					
S 3400E 1850N	32	70	<0.2					
S 3400E 1900N	29	95	0.2					
S 3400E 1950N	27	69	<0.2					
S 3400E 50S	31	75	<0.2					
S 3400E 100S	32	58	<0.2					
S 3400E 150S	26	56	<0.2					
S 3400E 200S	36	120	<0.2					
S M3K 063S	23	72	<0.2					
S M3K 075S	46	57	<0.2					
S M3K 076S	14	71	0.4					
S M3K 080S	11	33	0.2					
S M3K 081S	27	91	0.4					
S M3K 082S	15	56	<0.2					
S M3K 083S	13	44	0.2					
S M3K 084S	17	20	<0.2					
T MR6 002SS	27	90	<0.2					
T MR6 003SS	31	96	<0.2					
T M3J 026SS	29	83	<0.2					
T M3J 027SS	37	112	<0.2					
T M3J 028SS	27	91	<0.2					

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SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTE
S L50N-450W	33	49	0.3		S L800W-3350N	13	79	<0.2	
S L50N-500W	12	50	<0.2		S L800W-3400N	15	123	<0.2	
S L50N-700W	18	37	<0.2		S L800W-3450N	48	229	0.2	
S L50N-750W	16	48	<0.2		S L800W-3500N	15	71	<0.2	
S L50N-850W	17	45	<0.2		S L800W-3550N	20	36	<0.2	
S L50N-900W	2	11	<0.2		S L800W-3600N	14	29	<0.2	
S L50N-950W	8	16	<0.2		S L800W-3650N	17	35	0.4	
S L50N-1000W	28	46	0.3		S L800W-3700N	12	33	<0.2	
S L50N-1050W	8	16	0.4		S L800W-3750N	20	40	<0.2	
S L50N-1150W	3	15	<0.2		S L800W-3800N	253	82	4.4	
S L50N-1200W	27	83	0.2		S L800W-3850N	480	54	2.7	
S L50N-1250W	26	90	<0.2		S L800W-3900N	119	82	0.9	
S L50N-1300W	21	69	<0.2		S L800W-3950N	84	98	0.9	
S L50N-1350W	16	52	<0.2		S L800W-4000N	32	11	0.2	
S L800W-2050N	50	131	0.4		S L800W-4050N	31	18	0.7	
S L800W-2100N	34	91	<0.2		S L800W-4100N	28	48	0.3	
S L800W-2150N	28	54	<0.2		S L800W-4150N	41	125	1.2	
S L800W-2200N	37	72	0.2		S L800W-4200N	8	25	<0.2	
S L800W-2250N	29	44	<0.2		S L800W-4250N	11	21	<0.2	
S L800W-2300N	40	80	<0.2		S L800W-4300N	8	46	0.8	
S L800W-2350N	24	42	<0.2		S L800W-4350N	16	44	<0.2	
S L800W-2400N	43	62	0.2		S L800W-4400N	31	55	<0.2	
S L800W-2450N	45	61	<0.2		S L800W-4450N	22	55	<0.2	
S L800W-2500N	39	69	<0.2		S L800W-4500N	22	53	<0.2	
S L800W-2550N	43	70	<0.2		S L800W-4600N	30	68	<0.2	
S L800W-2600N	38	161	<0.2		S L800W-4650N	15	56	<0.2	
S L800W-2650N	54	103	<0.2		S L800W-4700N	32	57	<0.2	
S L800W-2700N	24	81	<0.2		S L800W-4800N	24	70	<0.2	
S L800W-2750N	46	175	<0.2		S L800W-4850N	97	155	0.4	
S L800W-2800N	37	125	<0.2		S L800W-4900N	23	101	<0.2	
S L800W-2850N	37	115	<0.2		S L800W-4950N	9	41	<0.2	
S L800W-2900N	37	79	<0.2		S L800W-5000N	19	41	<0.2	
S L800W-2950N	32	113	<0.2		S L1100W-2000N	49	118	<0.2	
S L800W-3000N	267	399	<0.2		S L1100W-2050N	32	188	<0.2	
S L800W-3050N	148	297	<0.2		S L1100W-2100N	30	81	0.2	
S L800W-3100N	156	314	0.2		S L1100W-2150N	29	48	<0.2	
S L800W-3150N	28	166	<0.2		S L1100W-2200N	44	72	0.2	
S L800W-3200N	72	286	0.2		S L1100W-2250N	36	68	<0.2	
S L800W-3250N	12	30	<0.2		S L1100W-2300N	95	46	0.2	
S L800W-3300N	16	45	<0.2		S L1100W-2350N	53	53	<0.2	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
S L1100W-2400N		42	63	<0.2		S L1100W-4500N		47	95	<0.2	
S L1100W-2450N		52	77	<0.2		S L1100W-4550N		42	127	0.5	
S L1100W-2500N		59	99	<0.2		S L1100W-4600N		26	66	0.2	
S L1100W-2550N		51	71	<0.2		S L1100W-4650N		36	85	<0.2	
S L1100W-2600N		51	70	<0.2		S L1100W-4700N		53	119	0.3	
S L1100W-2650N		35	75	<0.2		S L1100W-4750N		11	49	0.2	
S L1100W-2700N		48	154	<0.2		S L1100W-4800N		22	69	<0.2	
S L1100W-2750N		27	126	<0.2		S L1100W-4850N		18	63	<0.2	
S L1100W-2800N		27	63	<0.2		S L1100W-4900N		22	70	<0.2	
S L1100W-2850N		24	118	<0.2		S L1100W-4950N		50	332	<0.2	
S L1100W-2900N		21	61	<0.2		S L1100W-5000N		25	70	0.2	
S L1100W-2950N		28	133	<0.2		S L2100N-450W		23	75	<0.2	
S L1100W-3000N		36	152	0.4		S L2100N-500W		41	353	<0.2	
S L1100W-3050N		55	139	0.8		S L2100N-550W		25	80	<0.2	
S L1100W-3100N		26	103	0.4		S L2100N-600W		61	87	0.4	
S L1100W-3150N		19	53	<0.2		S L2100N-650W		66	219	<0.2	
S L1100W-3200N		26	80	<0.2		S L2100N-700W		72	155	<0.2	
S L1100W-3250N		19	53	<0.2		S L2100N-750W		31	102	0.2	
S L1100W-3300N		32	94	0.2		S L2100N-800W		39	57	0.2	
S L1100W-3350N		24	63	<0.2		S L2100N-850W		38	92	0.3	
S L1100W-3400N		15	56	<0.2		S L2100N-900W		39	96	0.2	
S L1100W-3450N		24	63	<0.2		S L2100N-950W		32	51	0.2	
S L1100W-3500N		40	42	0.2		S L2100N-1000W		25	67	0.2	
S L1100W-3550N		15	38	0.2		S L2100N-1050W		114	62	0.2	
S L1100W-3600N		8	17	0.2		S L2100N-1100W		41	70	0.4	
S L1100W-3650N		24	38	<0.2		S L2100N-1150W		67	48	0.3	
S L1100W-3700N		3	32	<0.2		S L2100N-1200W		36	75	0.3	
S L1100W-3750N		21	59	0.2		S L2100N-1250W		31	85	<0.2	
S L1100W-3850N		8	37	<0.2		S L2100N-1300W		35	72	<0.2	
S L1100W-3900N		5	24	<0.2		S L2100N-1350W		36	77	<0.2	
S L1100W-3950N		<2	29	<0.2		S L2100N-1400W		39	56	<0.2	
S L1100W-4000N		7	34	<0.2		S L2200E-100N		47	76	<0.2	
S L1100W-4050N		13	50	1.4		S L2200E-150N		183	330	3.0	
S L1100W-4100N		13	46	<0.2		S L2200E-200N		236	425	2.0	
S L1100W-4200N		20	171	1.2		S L2200E-250N		29	104	<0.2	
S L1100W-4250N		17	65	0.2		S L2200E-350N		33	105	<0.2	
S L1100W-4300N		27	76	0.2		S L2200E-400N		30	109	<0.2	
S L1100W-4350N		26	67	0.2		S L2200E-450N		25	101	<0.2	
S L1100W-4400N		37	59	<0.2		S L2200E-500N		32	85	<0.2	
S L1100W-4450N		15	64	<0.2		S L2200E-550N		28	126	<0.2	

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SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE ELEMENT NUMBER UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S L2200E-600N	43	95	<0.2		S L2400E-500N	33	113	<0.2	
S L2200E-650N	26	69	<0.2		S L2400E-550N	26	95	<0.2	
S L2200E-700N	26	79	<0.2		S L2400E-600N	51	119	<0.2	
S L2200E-750N	20	83	<0.2		S L2400E-650N	26	53	<0.2	
S L2200E-800N	21	71	<0.2		S L2400E-750N	16	92	<0.2	
S L2200E-850N	12	52	<0.2		S L2400E-800N	27	79	<0.2	
S L2200E-900N	18	48	<0.2		S L2400E-850N	24	96	<0.2	
S L2200E-950N	17	70	<0.2		S L2400E-900N	26	79	<0.2	
S L2200E-1000N	9	62	<0.2		S L2400E-950N	20	62	<0.2	
S L2200E-1050N	17	80	<0.2		S L2400E-1000N	23	88	<0.2	
S L2200E-1100N	14	70	<0.2		S L2400E-1050N	25	98	<0.2	
S L2200E-1150N	10	58	<0.2		S L2400E-1100N	21	92	<0.2	
S L2200E-1200N	8	38	<0.2		S L2400E-1150N	20	91	<0.2	
S L2200E-1250N	13	59	<0.2		S L2400E-1350N	9	77	0.2	
S L2200E-1300N	11	69	<0.2		S L2400E-1400N	12	78	<0.2	
S L2200E-1400N	11	82	<0.2		S L2400E-1450N	15	67	<0.2	
S L2200E-1450N	18	69	<0.2		S L2400E-1500N	25	86	<0.2	
S L2200E-1500N	6	82	<0.2		S L2400E-1600N	17	69	<0.2	
S L2200E-1550N	17	76	<0.2		S L2400E-1650N	15	66	<0.2	
S L2200E-1600N	9	68	<0.2		S L2400E-1700N	12	65	<0.2	
S L2200E-1650N	11	71	<0.2		S L2400E-1750N	12	62	<0.2	
S L2200E-1700N	8	71	<0.2		S L2400E-1800N	7	71	<0.2	
S L2200E-1750N	10	69	<0.2		S L2400E-1850N	8	69	<0.2	
S L2200E-1800N	11	83	<0.2		S L2400E-1900N	9	68	<0.2	
S L2200E-1850N	11	77	<0.2		S L2400E-50S	123	86	0.7	
S L2200E-1900N	9	50	<0.2		S L2400E-100S	141	162	0.4	
S L2200E-1950N	6	61	<0.2		S L2400E-150S	50	98	<0.2	
S L2200E-50S	76	114	0.8		S L2800E-00N	49	85	0.2	
S L2200E-100S	218	209	1.8		S L2800E-50N	154	89	0.3	
S L2200E-150S	132	136	1.6		S L2800E-100N	57	62	<0.2	
S L2400E-00N	67	98	0.3		S L2800E-150N	100	106	0.8	
S L2400E-50N	126	226	1.9		S L2800E-250N	31	74	<0.2	
S L2400E-100N	53	93	<0.2		S L2800E-300N	29	89	<0.2	
S L2400E-150N	47	122	0.2		S L2800E-350N	41	94	<0.2	
S L2400E-200N	67	109	<0.2		S L2800E-400N	33	109	<0.2	
S L2400E-250N	76	305	0.6		S L2800E-450N	31	99	<0.2	
S L2400E-300N	33	104	<0.2		S L2800E-500N	34	108	<0.2	
S L2400E-350N	36	94	<0.2		S L2800E-550N	38	115	<0.2	
S L2400E-400N	32	86	<0.2		S L2800E-600N	40	100	0.3	
S L2400E-450N	27	95	<0.2		S L2800E-700N	35	68	<0.2	

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTE
S L2800E-750N		40	66	<0.2		S L3000E-850N		38	69	<0.2	
S L2800E-800N		43	91	<0.2		S L3000E-900N		38	57	<0.2	
S L2800E-850N		29	86	<0.2		S L3000E-950N		45	75	0.3	
S L2800E-900N		60	85	<0.2		S L3000E-1000N		20	80	<0.2	
S L2800E-950N		49	101	0.2		S L3000E-1050N		34	89	<0.2	
S L2800E-1000N		61	103	0.2		S L3000E-1100N		66	123	<0.2	
S L2800E-1050N		32	72	<0.2		S L3000E-1150N		84	88	0.2	
S L2800E-1100N		37	72	<0.2		S L3000E-1200N		63	117	0.2	
S L2800E-1200N		26	66	<0.2		S L3000E-1250N		63	134	<0.2	
S L2800E-1250N		25	78	<0.2		S L3000E-1300N		138	142	0.3	
S L2800E-1300N		52	85	<0.2		S L3000E-1400N		57	86	<0.2	
S L2800E-1350N		13	53	<0.2		S L3000E-1450N		44	99	<0.2	
S L2800E-1400N		15	68	0.2		S L3000E-1500N		25	66	<0.2	
S L2800E-1450N		16	51	0.2		S L3000E-1550N		79	110	<0.2	
S L2800E-1500N		35	79	0.2		S L3000E-1600N		68	158	0.2	
S L2800E-1550N		20	67	<0.2		S L3000E-1650N		89	98	<0.2	
S L2800E-1600N		21	68	<0.2		S L3000E-1700N		31	76	<0.2	
S L2800E-1650N		13	67	<0.2		S L3000E-1750N		27	57	<0.2	
S L2800E-1700N		16	67	<0.2		S L3000E-1850N		26	93	<0.2	
S L2800E-1750N		14	57	<0.2		S L3000E-1900N		19	48	<0.2	
S L2800E-1800N		20	76	0.2		S L3000E-50S		52	65	<0.2	
S L2800E-50S		56	49	<0.2		S L3000E-100S		309	107	0.4	
S L2800E-100S		77	78	0.2		S L3000E-150S		54	70	<0.2	
S L2800E-150S		112	87	0.2		S L3200E-00N		48	54	<0.2	
S L3000E-00N		124	85	<0.2		S L3200E-100N		31	108	<0.2	
S L3000E-50N		131	103	0.3		S L3200E-150N		69	85	<0.2	
S L3000E-100N		102	76	0.2		S L3200E-200N		103	107	<0.2	
S L3000E-150N		42	91	<0.2		S L3200E-250N		54	92	<0.2	
S L3000E-200N		179	126	<0.2		S L3200E-350N		88	160	<0.2	
S L3000E-250N		82	173	<0.2		S L3200E-400N		119	278	<0.2	
S L3000E-300N		316	435	0.9		S L3200E-450N		160	342	0.7	
S L3000E-350N		78	147	0.2		S L3200E-500N		135	225	<0.2	
S L3000E-400N		32	100	<0.2		S L3200E-550N		58	137	<0.2	
S L3000E-450N		117	180	0.5		S L3200E-600N		34	120	<0.2	
S L3000E-550N		46	97	0.2		S L3200E-650N		43	108	<0.2	
S L3000E-600N		34	71	0.2		S L3200E-700N		41	106	<0.2	
S L3000E-650N		30	88	<0.2		S L3200E-750N		30	72	0.2	
S L3000E-700N		40	84	<0.2		S L3200E-800N		570	119	0.4	
S L3000E-750N		40	70	<0.2		S L3200E-850N		26	110	<0.2	
S L3000E-800N		30	108	<0.2		S L3200E-950N		42	91	<0.2	

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SAMPLE ELEMENT	Pb	Zn	Ag	NOTES	SAMPLE ELEMENT	Pb	Zn	Ag	NOTES
NUMBER UNITS	PPM	PPM	PPM		NUMBER UNITS	PPM	PPM	PPM	
S L3200E-1000N	40	95	<0.2		S L3600E-5600N	52	171	<0.2	
S L3200E-1050N	75	219	0.3		S L3600E-5650N	98	187	<0.2	
S L3200E-1100N	67	80	<0.2		S L3600E-5700N	60	317	0.2	
S L3200E-1150N	35	117	<0.2		S L3600E-5750N	5	29	0.2	
S L3200E-1200N	102	112	0.3		S L3600E-5800N	30	299	0.2	
S L3200E-1250N	90	89	<0.2		S L3600E-5850N	26	172	<0.2	
S L3200E-1300N	25	91	<0.2		S L3600E-5900N	43	354	<0.2	
S L3200E-1350N	46	87	<0.2		S L3600E-5950N	5	32	<0.2	
S L3200E-1400N	112	59	<0.2		S L3600E-6000N	13	53	<0.2	
S L3200E-1450N	56	110	<0.2		S L3600E-6050N	47	103	<0.2	
S L3200E-1500N	28	79	<0.2		S L3600E-6100N	44	225	0.4	
S L3200E-1550N	49	105	<0.2		S L3600E-6150N	54	203	0.2	
S L3200E-1600N	126	87	<0.2		S L3600E-6200N	61	206	0.4	
S L3200E-1700N	65	99	<0.2		S L3600E-6250N	51	142	<0.2	
S L3200E-1750N	55	61	<0.2		S L3600E-6300N	11	60	<0.2	
S L3200E-1850N	43	77	0.3		S L3600E-6350N	12	65	<0.2	
S L3200E-1950N	106	106	<0.2		S L3600E-6400N	32	225	0.4	
S L3200E-100S	41	60	<0.2		S L3600E-6450N	78	505	0.3	
S L3200E-150S	63	72	<0.2		S L3600E-6500N	23	289	0.4	
S L3500N-450W	33	115	<0.2		S L3800E-5550N	53	202	0.6	
S L3500N-500W	32	89	<0.2		S L3800E-5600N	30	229	0.3	
S L3500N-550W	16	41	<0.2		S L3800E-5650N	54	146	0.2	
S L3500N-600W	27	93	<0.2		S L3800E-5700N	23	283	0.9	
S L3500N-650W	10	44	<0.2		S L3800E-5750N	49	177	0.2	
S L3500N-700W	12	70	<0.2		S L3800E-5800N	49	223	0.7	
S L3500N-750W	7	41	<0.2		S L3800E-5850N	19	107	0.3	
S L3500N-800W	7	36	<0.2		S L3800E-5900N	19	73	<0.2	
S L3500N-850W	20	86	<0.2		S L3800E-5950N	22	80	<0.2	
S L3500N-900W	8	44	0.2		S L3800E-6000N	93	267	0.8	
S L3500N-950W	13	67	<0.2		S L3800E-6050N	26	126	<0.2	
S L3500N-1000W	9	65	<0.2		S L3800E-6100N	47	455	0.3	
S L3500N-1050W	5	35	<0.2		S L3800E-6150N	44	220	0.7	
S L3500N-1100W	8	9	<0.2		S L3800E-6200N	24	312	0.2	
S L3500N-1150W	51	86	<0.2		S L3800E-6250N	13	56	<0.2	
S L3500N-1200W	29	83	<0.2		S L3800E-6300N	28	266	<0.2	
S L3500N-1250W	815	705	0.8		S L3800E-6350N	36	237	<0.2	
S L3500N-1300W	85	144	<0.2		S L3800E-6400N	19	104	<0.2	
S L3500N-1350W	95	346	<0.2		S L3800E-6450N	9	32	0.6	
S L3500N-1400W	38	355	0.4		S L3800E-6500N	9	52	0.3	
S L3600E-5550N	44	137	<0.2		S L4000E-5550N	62	225	<0.2	

REPORT: 123-2121 PROJECT: MEISTER

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES
S L4000E-5600N		78	239	0.3		S L4400E-5450N		63	323	<0.2	
S L4000E-5650N		89	252	0.4		S L4400E-5500N		32	87	<0.2	
S L4000E-5700N		70	242	0.3		S L4400E-5550N		20	135	<0.2	
S L4000E-5750N		41	220	0.4		S L4400E-5600N		41	138	<0.2	
S L4000E-5800N		47	279	<0.2		S L4400E-5650N		60	210	0.3	
S L4000E-5850N		49	203	<0.2		S L4400E-5700N		40	182	0.3	
S L4000E-5900N		35	118	<0.2		S L4400E-5750N		43	520	0.3	
S L4000E-5950N		47	865	0.4		S L4400E-5800N		53	510	0.5	
S L4000E-6000N		57	1935	1.4		S L4400E-5850N		45	102	<0.2	
S L4000E-6050N		20	80	<0.2		S L4400E-5900N		38	117	<0.2	
S L4000E-6100N		19	405	0.4		S L4400E-5950N		36	136	<0.2	
S L4000E-6150N		28	445	0.2		S L4400E-6000N		48	313	<0.2	
S L4000E-6200N		12	52	<0.2		S L4400E-6050N		49	327	<0.2	
S L4000E-6250N		8	40	<0.2		S L4400E-6100N		42	250	0.4	
S L4000E-6300N		12	61	<0.2		S L4400E-6150N		20	123	<0.2	
S L4000E-6350N		16	158	<0.2		S L4400E-6200N		47	86	<0.2	
S L4000E-6400N		32	259	<0.2		S L4400E-6250N		31	159	<0.2	
S L4000E-6450N		19	81	<0.2		S L4400E-6300N		22	108	<0.2	
S L4000E-6500N		25	122	<0.2		S L4400E-6350N		22	174	<0.2	
S L4200E-5550N		28	88	0.2		S L4400E-6400N		30	211	<0.2	
S L4200E-5600N		35	74	<0.2		S L4400E-6450N		23	130	0.4	
S L4200E-5650N		34	120	0.2		S L4400E-6500N		28	327	0.2	
S L4200E-5700N		98	465	0.3		S L4600E-5650N		21	150	1.1	
S L4200E-5750N		116	321	0.5		S L4600E-5700N		75	500	1.1	
S L4200E-5800N		106	142	0.5		S L4600E-5750N		33	305	0.2	
S L4200E-5850N		62	240	<0.2		S L4600E-5800N		10	110	0.8	
S L4200E-5900N		17	182	<0.2		S L4600E-5850N		25	326	1.2	
S L4200E-5950N		133	480	0.2		S L4600E-5900N		55	234	<0.2	
S L4200E-6000N		8	85	<0.2		S L4600E-5950N		33	116	<0.2	
S L4200E-6050N		31	510	<0.2		S L4600E-6000N		31	243	0.5	
S L4200E-6100N		43	147	<0.2		S L4600E-6050N		17	183	<0.2	
S L4200E-6150N		19	69	<0.2		S L4600E-6100N		51	192	0.2	
S L4200E-6200N		10	55	<0.2		S L4600E-6150N		25	55	<0.2	
S L4200E-6250N		2	20	<0.2		S L4600E-6200N		24	269	<0.2	
S L4200E-6300N		19	410	0.3		S L4600E-6250N		25	88	<0.2	
S L4200E-6350N		29	51	<0.2		S L4600E-6300N		18	64	<0.2	
S L4200E-6400N		35	455	<0.2		S L4600E-6350N		17	87	<0.2	
S L4200E-6450N		31	162	3.1		S L4600E-6400N		67	283	0.3	
S L4200E-6500N		7	37	<0.2		S L4600E-6450N		7	11	1.0	
S L4400E-5400N		69	292	0.2		S M3J-030SS		99	172	0.4	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
S M3K-100SS		76	144	0.4	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
S L1800E-2100N		18	94	<0.2	
S L1800E-2150N		15	73	0.2	
S L1800E-2200N		16	79	<0.2	
S L1800E-2250N		17	103	<0.2	
S L1800E-2300N		28	126	0.2	
S L1800E-2350N		36	183	<0.2	
S L1800E-2400N		44	171	0.2	
S L1800E-2450N		35	164	<0.2	
S L1800E-2500N		27	111	0.2	
S L1800E-2550N		40	105	<0.2	
S L1800E-2600N		20	67	<0.2	
S L1800E-2650N		19	49	<0.2	
S L1800E-2700N		21	61	0.2	
S L1800E-2750N		19	120	<0.2	
S L1800E-2800N		127	420	<0.2	
S L1800E-2900N		116	545	0.3	
S L1800E-2950N		182	261	0.3	
S L1800E-3000N		84	271	<0.2	
S L1800E-3050N		124	164	<0.2	
S L1800E-3100N		79	134	<0.2	
S L1800E-3150N		33	238	<0.2	
S L1800E-3200N		45	213	<0.2	
S L1800E-3300N		204	630	0.8	
S L1800E-3350N		37	191	<0.2	
S L1800R-3400N		39	204	<0.2	
S L1800E-3450N		44	108	0.2	
S L1800E-3500N		58	180	0.4	
S L1800E-3550N		33	125	<0.2	
S L1800E-3650N		43	131	<0.2	
S L1800E-3700N		38	106	0.2	
S L1800E-3750N		32	116	0.2	
S L1800E-3800N		47	127	0.4	
S L1800E-3850N		51	137	0.2	
S L1800E-3900N		30	138	0.3	
S L1800E-3950N		67	158	0.5	
S L2000E-2050N		13	96	<0.2	
S L2000E-2100N		10	85	<0.2	
S L2000E-2150N		14	87	<0.2	
S L2000E-2200N		8	67	<0.2	
S L2000E-2250N		13	72	<0.2	

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOT
S L2000E-2300N		11	81	<0.2	
S L2000E-2350N		10	54	<0.2	
S L2000E-2400N		13	78	<0.2	
S L2000E-2450N		28	128	<0.2	
S L2000E-2550N		33	105	<0.2	
S L2000E-2600N		41	181	<0.2	
S L2000E-2650N		21	88	<0.2	
S L2000E-2700N		20	60	<0.2	
S L2000E-2750N		19	58	0.3	
S L2000E-2800N		36	295	<0.2	
S L2000E-2850N		92	236	<0.2	
S L2000E-2900N		54	258	<0.2	
S L2000E-3000N		82	460	0.4	
S L2000E-3050N		132	425	0.3	
S L2000E-3100N		67	237	<0.2	
S L2000E-3150N		64	425	0.2	
S L2000E-3200N		90	735	0.7	
S L2000E-3350N		71	231	0.4	
S L2000E-3400N		63	180	0.3	
S L2000E-3450N		68	316	<0.2	
S L2000E-3550N		89	248	<0.2	
S L2000E-3600N		32	113	<0.2	
S L2000E-3650N		19	103	0.2	
S L2000E-3700N		35	159	<0.2	
S L2000E-3750N		31	97	<0.2	
S L2000E-3800N		34	101	<0.2	
S L2000E-3850N		33	82	0.2	
S L2000E-3900N		32	100	<0.2	
S L2000E-3950N		44	154	0.4	
S L2200E-2050N		7	57	<0.2	
S L2200E-2100N		9	75	<0.2	
S L2200E-2150N		11	80	<0.2	
S L2200E-2200N		12	79	<0.2	
S L2200E-2250N		13	73	<0.2	
S L2200E-2300N		14	75	<0.2	
S L2200E-2350N		15	54	<0.2	
S L2200E-2400N		18	97	<0.2	
S L2200E-2450N		20	112	<0.2	
S L2200E-2500N		19	93	<0.2	
S L2200E-2550N		18	81	<0.2	

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SAMPLE	ELEMENT	Pb	Zn	As	NOTES	SAMPLE	ELEMENT	Pb	Zn	As	NOTES
NUMBER	UNITS	PPM	PPM	PPM		NUMBER	UNITS	PPM	PPM	PPM	
S L2200E-2600N		18	113	<0.2		S L2400E-2400N		24	92	<0.2	
S L2200E-2650N		26	127	<0.2		S L2400E-2450N		16	77	<0.2	
S L2200E-2700N		24	76	<0.2		S L2400E-2500N		31	110	0.2	
S L2200E-2750N		25	90	<0.2		S L2400E-2550N		20	100	<0.2	
S L2200E-2800N		19	76	<0.2		S L2400E-2600N		29	129	<0.2	
S L2200E-2850N		18	69	<0.2		S L2400E-2650N		29	125	<0.2	
S L2200E-2900N		43	147	<0.2		S L2400E-2700N		31	133	<0.2	
S L2200E-3000N		70	316	<0.2		S L2400E-2750N		30	130	<0.2	
S L2200E-3050N		82	367	<0.2		S L2400E-2800N		29	101	<0.2	
S L2200E-3100N		120	535	<0.2		S L2400E-2850N		26	95	<0.2	
S L2200E-3150N		105	315	<0.2		S L2400E-2900N		23	141	<0.2	
S L2200E-3200N		64	383	<0.2		S L2400E-2950N		21	130	<0.2	
S L2200E-3250N		144	315	<0.2		S L2400E-3000N		57	215	<0.2	
S L2200E-3300N		63	319	0.3		S L2400E-3050N		75	390	0.2	
S L2200E-3350N		47	122	<0.2		S L2400E-3100N		77	165	<0.2	
S L2200E-3400N		36	125	<0.2		S L2400E-3150N		69	183	<0.2	
S L2200E-3450N		63	235	<0.2		S L2400E-3200N		25	285	<0.2	
S L2200E-3500N		28	124	<0.2		S L2400E-3250N		92	310	<0.2	
S L2200E-3550N		49	278	<0.2		S L2400E-3300N		72	320	<0.2	
S L2200E-3600N		73	217	<0.2		S L2400E-3350N		90	359	<0.2	
S L2200E-3650N		44	130	<0.2		S L2400E-3400N		91	490	<0.2	
S L2200E-3700N		32	228	0.2		S L2400E-3450N		53	352	<0.2	
S L2200E-3750N		41	111	<0.2		S L2400E-3500N		83	369	0.4	
S L2200E-3800N		41	194	<0.2		S L2400E-3550N		68	382	<0.2	
S L2200E-3850N		37	168	<0.2		S L2400E-3600N		45	163	<0.2	
S L2200E-3900N		34	91	<0.2		S L2400E-3650N		32	128	<0.2	
S L2200E-3950N		55	90	<0.2		S L2400E-3700N		52	123	<0.2	
S L2300E-4700N		33	103	<0.2		S L2400E-3750N		49	114	<0.2	
S L2300E-4750N		32	171	0.3		S L2400E-3800N		47	151	<0.2	
S L2300E-4800N		74	700	0.4		S L2400E-3850N		49	112	<0.2	
S L2300E-4850N		36	387	1.2		S L2400E-3900N		47	155	<0.2	
S L2300E-4900N		38	390	0.5		S L2400E-3950N		40	94	<0.2	
S L2300E-4950N		46	195	0.2		S L2500E-4700N		63	1730	0.5	
S L2400E-2050N		8	47	<0.2		S L2500E-4750N		163	1950	3.2	
S L2400E-2100N		9	36	<0.2		S L2500E-4800N		106	1650	0.6	
S L2400E-2150N		12	63	<0.2		S L2500E-4850N		39	236	0.3	
S L2400E-2200N		11	69	<0.2		S L2500E-4900N		213	1010	0.2	
S L2400E-2250N		10	57	<0.2		S L2500E-4950N		49	425	1.0	
S L2400E-2300N		8	59	<0.2		S L2600E-2050N		7	52	<0.2	
S L2400E-2350N		11	71	<0.2		S L2600E-2100N		6	50	<0.2	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTE
S L2600E-2150N		8	76	<0.2		S L2700E-4700N		16	69	0.6	
S L2600E-2200N		11	69	<0.2		S L2700E-4750N		42	167	0.5	
S L2600E-2250N		6	55	<0.2		S L2700E-4800N		38	183	0.6	
S L2600E-2300N		12	56	<0.2		S L2700E-4850N		164	328	1.9	
S L2600E-2350N		51	81	<0.2		S L2700E-4900N		37	330	1.5	
S L2600E-2400N		16	70	<0.2		S L2700E-4950N		15	49	0.4	
S L2600E-2450N		16	67	<0.2		S L2800E-2050N		16	59	<0.2	
S L2600E-2500N		20	97	<0.2		S L2800E-2100N		7	40	<0.2	
S L2600E-2550N		16	82	<0.2		S L2800E-2150N		15	78	<0.2	
S L2600E-2600N		28	115	<0.2		S L2800E-2200N		22	120	<0.2	
S L2600E-2650N		17	121	<0.2		S L2800E-2250N		5	31	<0.2	
S L2600E-2750N		26	111	<0.2		S L2800E-2300N		15	75	<0.2	
S L2600E-2800N		20	93	<0.2		S L2800E-2350N		14	50	<0.2	
S L2600E-2850N		24	78	<0.2		S L2800E-2400N		14	55	<0.2	
S L2600E-2900N		27	93	<0.2		S L2800E-2450N		22	78	<0.2	
S L2600E-2950N		22	102	<0.2		S L2800E-2500N		22	86	<0.2	
S L2600E-3000N		26	100	<0.2		S L2800E-2550N		29	74	<0.2	
S L2600E-3050N		23	81	<0.2		S L2800E-2600N		33	91	<0.2	
S L2600E-3100N		44	133	0.2		S L2800E-2650N		49	86	<0.2	
S L2600E-3150N		37	189	<0.2		S L2800E-2700N		36	115	<0.2	
S L2600E-3200N		58	128	<0.2		S L2800E-2750N		38	133	<0.2	
S L2600E-3250N		26	149	<0.2		S L2800E-2800N		24	68	<0.2	
S L2600E-3300N		59	132	<0.2		S L2800E-2850N		27	208	<0.2	
S L2600E-3350N		71	177	<0.2		S L2800E-2900N		42	85	<0.2	
S L2600E-3400N		65	219	<0.2		S L2800E-2950N		57	74	<0.2	
S L2600E-3450N		91	369	0.2		S L2800E-3000N		43	72	<0.2	
S L2600E-3500N		40	111	<0.2		S L2800E-3050N		27	89	<0.2	
S L2600E-3550N		37	154	<0.2		S L2800E-3100N		25	78	<0.2	
S L2600E-3600N		41	110	<0.2		S L2800E-3150N		41	83	<0.2	
S L2600E-3650N		42	159	<0.2		S L2800E-3200N		55	108	<0.2	
S L2600E-3700N		82	87	<0.2		S L2800E-3250N		36	86	<0.2	
S L2600E-3750N		75	119	<0.2		S L2800E-3300N		57	121	<0.2	
S L2600E-3800N		63	123	<0.2		S L2800E-3350N		27	93	<0.2	
S L2600E-3850N		33	123	<0.2		S L2800E-3400N		29	146	<0.2	
S L2600E-3900N		24	151	<0.2		S L2800E-3450N		30	81	<0.2	
S L2600E-3950N		62	144	0.3		S L2800E-3500N		39	89	<0.2	
S L2700E-4500N		25	135	0.6		S L2800E-3550N		32	158	0.2	
S L2700E-4550N		81	1710	0.5		S L2800E-3600N		67	171	0.3	
S L2700E-4600N		96	565	1.2		S L2800E-3650N		59	70	<0.2	
S L2700E-4650N		379	1040	7.2		S L2900E-4300N		161	600	0.5	

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REPORT: 123-2256 PROJECT: MEISTER

SAMPLE ELEMENT	Pb	Zn	As	NOTES	SAMPLE ELEMENT	Pb	Zn	As	NOTES
NUMBER UNITS	PPM	PPM	PPM		NUMBER UNITS	PPM	PPM	PPM	
S L2900E-4350N	267	735	0.6		S L3100E-4600N	50	465	0.4	
S L2900E-4400N	98	1600	0.6		S L3100E-4650N	32	410	0.5	
S L2900E-4450N	38	397	<0.2		S L3100E-4700N	115	188	0.5	
S L2900E-4550N	735	3160	1.5		S L3100E-4750N	47	369	1.8	
S L2900E-4600N	84	480	1.0		S L3100E-4800N	224	675	1.2	
S L2900E-4650N	129	495	1.0		S L3100E-4850N	104	266	0.3	
S L2900E-4700N	79	372	0.2		S L3100E-4900N	139	340	0.5	
S L2900E-4750N	50	305	1.2		S L3100E-4950N	288	226	0.6	
S L2900E-4800N	111	1100	1.2		S L3200E-2050N	44	83	<0.2	
S L2900E-4850N	306	2470	4.3		S L3200E-2100N	24	67	<0.2	
S L2900E-4900N	40	99	0.4		S L3200E-2150N	110	216	<0.2	
S L2900E-4950N	415	247	1.9		S L3200E-2200N	30	151	<0.2	
S L3000E-2050N	25	46	<0.2		S L3200E-2250N	28	94	<0.2	
S L3000E-2100N	14	92	<0.2		S L3200E-2300N	96	119	0.2	
S L3000E-2150N	21	105	<0.2		S L3200E-2350N	22	106	<0.2	
S L3000E-2250N	24	99	<0.2		S L3200E-2400N	18	109	<0.2	
S L3000E-2300N	19	102	<0.2		S L3200E-2450N	36	141	0.2	
S L3000E-2350N	29	100	<0.2		S L3200E-2500N	42	111	<0.2	
S L3000E-2400N	23	79	<0.2		S L3200E-2550N	32	86	<0.2	
S L3000E-2450N	42	116	0.2		S L3200E-2600N	28	99	<0.2	
S L3000E-2500N	60	150	0.5		S L3200E-2650N	14	64	0.2	
S L3000E-2550N	28	84	<0.2		S L3200E-2700N	21	66	<0.2	
S L3000E-2600N	34	100	<0.2		S L3200E-2750N	14	40	<0.2	
S L3000E-2650N	24	88	<0.2		S L3200E-2800N	15	65	<0.2	
S L3000E-2700N	74	129	<0.2		S L3200E-2850N	14	73	<0.2	
S L3000E-2750N	61	140	<0.2		S L3200E-2900N	14	80	<0.2	
S L3000E-2800N	49	84	<0.2		S L3200E-2950N	14	103	<0.2	
S L3000E-2850N	19	80	<0.2		S L3200E-3000N	25	78	<0.2	
S L3000E-2900N	31	114	<0.2		S L3200E-3050N	19	71	<0.2	
S L3000E-2950N	13	70	<0.2		S L3200E-3100N	27	71	<0.2	
S L3000E-3000N	42	92	0.2		S L3200E-3150N	34	149	0.3	
S L3000E-3050N	13	66	<0.2		S L3300E-4300N	164	495	0.9	
S L3000E-3100N	49	112	<0.2		S L3300E-4350N	137	372	0.7	
S L3000E-3150N	58	104	<0.2		S L3300E-4400N	210	445	0.3	
S L3100E-4300N	69	665	1.0		S L3300E-4450N	153	1040	1.0	
S L3100E-4350N	835	1150	<0.2		S L3300E-4500N	221	805	1.2	
S L3100E-4400N	65	397	0.2		S L3300E-4550N	133	900	0.6	
S L3100E-4450N	98	1810	1.1		S L3300E-4600N	12	58	0.2	
S L3100E-4500N	56	500	1.1		S L3300E-4650N	126	595	1.0	
S L3100E-4550N	34	117	<0.2		S L3300E-4700N	50	264	0.2	

REPORT: 123-2256 PROJECT: MEISTER

SAMPLE NUMBER	ELEMENT UNITS	Pb	Zn	As	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb	Zn	As	NOTE
		PPM	PPM	PPM				PPM	PPM	PPM	
S L3300E-4750N		68	301	<0.2		S L3600E-2150N		75	99	<0.2	
S L3300E-4800N		57	445	<0.2		S L3600E-2200N		31	105	<0.2	
S L3300E-4850N		133	475	0.4		S L3600E-2250N		37	113	<0.2	
S L3300E-4900N		118	333	<0.2		S L3600E-2300N		25	88	<0.2	
S L3300E-4950N		134	540	0.9		S L3600E-2350N		21	61	<0.2	
S L3400E-2150N		24	90	<0.2		S L3600E-2400N		41	71	<0.2	
S L3400E-2250N		27	89	<0.2		S L3600E-2450N		17	75	<0.2	
S L3400E-2300N		62	271	<0.2		S L3600E-2500N		13	74	<0.2	
S L3400E-2350N		32	91	<0.2		S L3600E-2550N		17	105	<0.2	
S L3400E-2400N		39	122	<0.2		S L3600E-2600N		12	95	<0.2	
S L3400E-2450N		50	174	<0.2		S L3600E-2650N		14	113	<0.2	
S L3400E-2550N		18	67	<0.2		S L3600E-2700N		23	151	<0.2	
S L3400E-2600N		21	89	<0.2		S L3600E-2750N		36	198	<0.2	
S L3400E-2650N		13	75	<0.2		S L3600E-2800N		29	169	<0.2	
S L3400E-2700N		18	73	<0.2		S L3600E-2850N		31	90	0.2	
S L3400E-2750N		12	91	<0.2		S L3600E-2950N		13	58	0.3	
S L3400E-2800N		23	173	<0.2		S L3600E-3000N		15	61	<0.2	
S L3400E-2850N		22	139	<0.2		S L3600E-3050N		14	91	0.2	
S L3400E-2900N		32	141	<0.2		S L3600E-3100N		22	109	<0.2	
S L3400E-2950N		15	82	<0.2		S L3600E-3150N		15	62	<0.2	
S L3400E-3000N		31	131	<0.2		S L3600E-3200N		32	99	<0.2	
S L3400E-3050N		23	102	<0.2		S L3600E-3250N		44	107	<0.2	
S L3400E-3100N		23	81	<0.2		S L3700E-4400N		57	330	0.2	
S L3400E-3150N		29	100	<0.2		S L3700E-4450N		120	720	1.1	
S L3400E-3200N		30	99	<0.2		S L3700E-4500N		170	770	0.6	
S L3400E-3250N		31	110	<0.2		S L3700E-4550N		125	590	0.8	
S L3500E-4400N		73	226	0.5		S L3700E-4600N		223	845	0.8	
S L3500E-4450N		440	4480	1.8		S L3700E-4650N		155	1480	0.7	
S L3500E-4500N		62	735	0.9		S L3700E-4700N		70	1020	<0.2	
S L3500E-4550N		208	765	0.4		S L3700E-4750N		129	1090	<0.2	
S L3500E-4600N		261	1040	0.5		S L3700E-4800N		118	440	0.4	
S L3500E-4650N		87	680	0.3		S L3700E-4850N		198	1300	<0.2	
S L3500E-4700N		104	238	0.2		S L3700E-4900N		405	2460	0.6	
S L3500E-4750N		60	179	0.3		S L3700E-4950N		40	485	<0.2	
S L3500E-4800N		91	315	0.7		S L3800E-2150N		86	108	<0.2	
S L3500E-4850N		65	344	0.3		S L3800E-2200N		31	55	<0.2	
S L3500E-4900N		82	645	0.4		S L3800E-2250N		31	105	<0.2	
S L3500E-4950N		159	341	0.5		S L3800E-2300N		21	90	<0.2	
S L3600E-2050N		26	84	<0.2		S L3800E-2350N		29	112	<0.2	
S L3600E-2100N		86	84	<0.2		S L3800E-2400N		34	152	<0.2	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
S L3800E-2450N		47	226	<0.2	
S L3800E-2500N		31	88	<0.2	
S L3800E-2550N		36	83	<0.2	
S L3800E-2600N		20	73	<0.2	
S L3800E-2650N		14	90	<0.2	
S L3800E-2700N		13	89	<0.2	
S L3800E-2750N		20	161	<0.2	
S L3800E-2800N		13	292	<0.2	
S L3800E-2850N		15	585	<0.2	
S L3800E-2900N		25	191	<0.2	
S L3800E-2950N		13	60	<0.2	
S L3800E-3000N		33	204	<0.2	
S L3800E-3050N		16	90	<0.2	
S L3800E-3100N		3	25	<0.2	
S L3800E-3150N		13	122	<0.2	
S L3900E-4700N		48	475	<0.2	
S L3900E-4750N		72	850	1.6	
S L3900E-4800N		93	985	1.2	
S L3900E-4850N		94	500	<0.2	
S L3900E-4900N		80	775	0.9	
S L3900E-4950N		80	550	0.5	
S M3J-031SS		31	117	<0.2	
S M3K-086S		31	136	0.3	
S M3K-101S		89	700	0.9	
S M3K-106S		151	369	0.6	
S M3K-107S		43	141	<0.2	
S M3K-109S		36	84	<0.2	
S M3K-110S		25	45	0.3	
S M3K-115S		18	83	<0.2	
S M3K-116S		16	81	<0.2	
S M3K-118S		41	160	<0.2	
T M3H-5SS					
T M3K-102SS		314	1870	> 50.0	
T M3K-103SS		206	930	50.0	
T M3K-104SS		23	108	0.5	
T M3K-114SS		32	78	<0.2	
T M3K-117SS		16	64	<0.2	

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REPORT: 623-2256 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	As OPT	NOTES
T M3K-102SS		25.90	

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Geochemical Lab Report

REPORT: 223-2860 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	Fe PCT	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	Fe PCT	NOT
S L4200E	24+50N	54	1160	0.2			S L4400E	37+00N	90	142	0.2		
S L4200E	25+00N	24	500	<0.2			S L4400E	37+50N	68	118	0.4		
S L4200E	25+50N	29	275	<0.2			S L4400E	38+00N	87	136	0.3		
S L4200E	26+00N	22	280	<0.2			S L4400E	38+50N	77	210	0.4		
S L4200E	26+50N	15	73	<0.2			S L4600E	28+50N	26	130	0.2		
S L4200E	27+00N	13	45	<0.2			S L4600E	29+00N	15	88	<0.2		
S L4200E	27+50N	13	63	<0.2			S L4600E	29+50N	12	45	<0.2		
S L4200E	28+00N	17	58	<0.2			S L4600E	30+00N	16	41	<0.2		
S L4200E	28+50N	7	19	<0.2			S L4600E	30+50N	13	43	<0.2		
S L4200E	29+00N	17	50	<0.2			S L4600E	31+00N	15	48	<0.2		
S L4200E	29+50N	9	43	<0.2			S L4600E	31+50N	12	60	<0.2		
S L4200E	30+00N	10	39	<0.2			S L4600E	32+00N	14	77	<0.2		
S L4200E	30+50N	15	67	<0.2			S L4600E	32+50N	14	68	<0.2		
S L4200E	31+00N	12	30	<0.2			S L4600E	33+00N	13	105	<0.2		
S L4200E	31+50N	13	67	<0.2			S L4600E	33+50N	50	270	<0.2		
S L4400E	24+50N	39	180	<0.2			S L4600E	34+00N	14	85	<0.2		
S L4400E	25+00N	33	160	<0.2			S L4600E	34+50N	17	78	<0.2		
S L4400E	25+50N	32	130	<0.2			S L4600E	35+00N	1270	2800	6.5		
S L4400E	26+00N	100	248	<0.2			S L4600E	35+50N	240	820	3.7		
S L4400E	26+50N	32	280	<0.2			S L4600E	36+00N	61	290	<0.2		
S L4400E	27+00N	26	200	<0.2			S L4600E	36+50N	31	104	<0.2		
S L4400E	27+50N	20	140	<0.2			S L4600E	37+00N	50	117	0.2		
S L4400E	28+00N	20	105	<0.2			S L4600E	37+50N	133	117	0.4		
S L4400E	28+50N	14	74	<0.2			S L4600E	38+00N	56	105	0.3		
S L4400E	29+00N	19	84	<0.2			S L4600E	38+50N	55	114	0.2		
S L4400E	29+50N	20	81	<0.2			S L4600E	39+00N	68	140	0.4		
S L4400E	30+00N	17	58	<0.2			S L4600E	39+50N	48	145	0.2		
S L4400E	30+50N	10	27	<0.2			S L4800E	28+50N	34	180	<0.2		
S L4400E	31+00N	16	50	<0.2			S L4800E	29+00N	25	167	<0.2		
S L4400E	31+50N	19	70	<0.2			S L4800E	29+50N	17	100	0.2		
S L4400E	32+00N	16	65	<0.2			S L4800E	30+00N	13	65	<0.2		
S L4400E	32+50N	20	101	0.2			S L4800E	30+50N	14	38	<0.2		
S L4400E	33+00N	16	70	<0.2			S L4800E	31+00N	14	38	<0.2		
S L4400E	33+50N	18	90	0.2			S L4800E	31+50N	15	47	<0.2		
S L4400E	34+00N	33	125	0.2			S L4800E	32+00N	14	65	<0.2		
S L4400E	34+50N	24	95	0.2			S L4800E	32+50N	15	96	<0.2		
S L4400E	35+00N	26	120	<0.2			S L4800E	33+00N	87	660	<0.2		
S L4400E	35+50N	30	110	<0.2			S L4800E	33+50N	340	710	0.3		
S L4400E	36+00N	28	73	<0.2			S L4800E	34+00N	32	174	<0.2		
S L4400E	36+50N	57	204	0.2			S L4800E	34+50N	14	81	<0.2		

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SAMPLE ELEMENT	Pb	Zn	As	Fe	NOTES
NUMBER UNITS	PPM	PPM	PPM	PCT	
S L4800E 35+00N	29	160	0.2		
S L4800E 35+50N	101	460	<0.2		
S L4800E 36+00N	39	144	<0.2		
S L4800E 36+50N	45	80	<0.2		
S L4800E 37+00N	49	116	<0.2		
S L4800E 37+50N	35	8	0.3		
S L4800E 38+00N	109	123	0.3		
S L4800E 38+50N	76	102	0.4		
S L4800E 39+00N	51	115	0.3		
S L4800E 39+50N	63	244	0.5		
S L5000E 29+00N	72	220	0.2		
S L5000E 29+50N	26	156	<0.2		
S L5000E 30+00N	16	110	<0.2		
S L5000E 30+50N	25	110	<0.2		
S L5000E 31+00N	13	90	<0.2		
S L5000E 31+50N	14	61	<0.2		
S L5000E 32+00N	11	44	0.2		
S L5000E 32+50N	16	57	<0.2		
S L5000E 33+00N	20	77	<0.2		
S L5000E 33+50N	14	68	<0.2		
S L5000E 34+00N	14	103	<0.2		
S L5000E 34+50N	15	78	<0.2		
S L5000E 35+00N	18	135	<0.2		
S L5000E 35+50N	69	400	<0.2		
S L5000E 36+00N	40	195	0.2		
S L5000E 36+50N	79	181	0.4		
S L5000E 37+00N	151	420	0.4		
S L5000E 37+50N	49	112	0.2		
S L5000E 38+00N	40	90	0.2		
S L5000E 38+50N	48	89	0.3		
S BL400W-3300N	640	1260	25.0		
S M3G-6	330	510	3.0		
S M3G-7	148	268	1.4		
S M3G-8	230	390	2.3		
S M3G-9	94	325	2.0		
S M3G-10	36	128	0.7		
S M3G-11	171	263	2.0		
S M3G-12	116	298	2.0		
S M3G-13	79	156	1.8		
S M3H-6	27	1100	1.5		
S M3H-7	420	6600	25.0		
S M3H-8	880	4800	10.0		
S M3K-122S	1300	1090	> 50.0		
S M3K-126S	58	125	0.3		
S M3K-127S	145	440	0.6		
S M3K PIT-3	178	620	1.1		
S M3K PIT-4A	76	135	3.3		
S M3K PIT-4B	22	100	0.8		
S M3K PIT-5	230	390	2.1		
S M3K PIT-6	320	430	1.5		
S M3K PIT-7	230	405	5.6		
S M3K PIT-8	111	285	2.4		
S M3M PIT-2	155	255	3.2		
S M3M TRIOS	> 10000	> 20000	23.0		
R 93557				3.70	
R 93558				1.55	
R 93559				3.05	
R 93560				>10.00	
R 93561				>10.00	
R 93562				>10.00	
R 93563				>10.00	
R 93564				>10.00	
R 93565				>10.00	
R 93566				>10.00	
R 93567				>10.00	
R 93568				>10.00	
R 93569				>10.00	
R 93570				9.50	

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SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Bi PPM	Fe PCT	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM	NOTES
M3H-5SS		3	44	3256	<1	<1	5	7	58	4.0	3.1	<2	0.20	<1	<5	<3	<2	<1	<2	6	<1	

Hydrozincite Spring
Sediment (Zincian Calcrete)

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SAMPLE NUMBER	ELEMENT UNITS	As PPB	Ca PPM	K PPM	Mg PPM	Na PPM	pH PH	HCO3 PPM	SO4 PPM	Cl PPM	S ide PPM	NOTES
W M3K-102W		<4	40	<0.1	6.4	1.2	7.3	200	9	5	<1	
W M3K-161W		<4	42	<0.1	5.0	1.8	7.8	205	10	<5	<1	
W M3K-162W		<4	36	<0.1	6.6	1.5	7.8	168	6	5	<1	
W M3K-163W		<4	48	<0.1	5.9	1.5	7.7	205	<5	<5	<1	
W M3K-164W		<4	40	<0.1	5.2	1.6	7.9	190	<5	6	<1	
W M3K-165W		<4	50	<0.1	4.1	2.0	7.8	245	<5	6	<1	

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SAMPLE NUMBER	ELEMENT UNITS	Ag PPB	Cu PPB	Pb PPB	Fe PPB	Mn	M PPB	Zn PPB	NOTES
W M3K-102W		<2	3	6	40		2.	44	
W M3K-161W		<2	<2	<5	70		4	5	
W M3K-162W		<2	2	10	80		4	5	
W M3K-163W		<2	<2	<5	110		2	5	
W M3K-164W		<2	<2	6	110		4	5	
W M3K-165W		<2	3	8	100		2	5	

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REPORT: 423-2433 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	Pb PCT	Zn PCT	Ba PCT	NOTES
D 93576		<0.002	<0.02	0.01	0.04	0.22	67.6-69.1 DDH-1 67.6M~ 69.19M
D 93577		<0.002	<0.02	<0.01	0.03	0.07	53.4 ~ 53.9
D 93578		<0.002	0.02	0.01	0.04	0.07	55.4 ~ 56.9
D 93579		0.002	0.86	0.02	0.20	0.05	119.0
D 93580		<0.002	0.02	0.01	0.02	0.25	184.0 ~ 185.0 DDH 83-2
D 93581		<0.002	0.05	<0.01	0.02	0.25	185.0 ~ 186.0
D 93582		<0.002	<0.02	<0.01	0.02	0.25	186.0 ~ 187.0
D 93583		<0.002	0.06	<0.01	0.02	0.17	187.0 ~ 188.0
D 93584		<0.002	0.03	0.01	0.01	0.08	232.0 ~ 233.0

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REPORT: 013-2587/113-2587

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Cu PPM	Pb PPM	Zn PPM	Mo PPM	Co PPM	Ni PPM	Cr PPM	Mn PPM	Cd PPM	Ag PPM	Bi PPM	Fe PCT	V PPM	As PPM	Te PPM	U PPM	W PPM	Sb PPM	Se PPM	Sn PPM	NOTES
93576	H-1 FAULT OXIDE ZONE	100	0.008% 89	0.041% 411	6	15	67	278	1318	1.5	% 0.9	<2	4.4	493	170	<3	<2	3	<2	<5	9	DDH 83-1
93577		11	0.002 25	64 0.006	<1	7	25	78	250	<0.5	<0.2	<2	2.6	38	<5	<3	<2	2	<2	<5	2	
93578	← FAULT OXIDE →	182	0.003 35	109 0.010	23	23	125	205	42	<0.5	1.5	<2	8.2	356	179	<3	<2	4	<2	<5	<1	
93579		14	0.002 28	98 0.009	27	4	32	164	18	<0.5	0.4	<2	3.5	434	36	<3	<2	2	<2	<5	<1	
~~93580~~	H-2	~~10~~	~~28~~	~~51~~	~~29~~	~~3~~	~~27~~	~~136~~	~~39~~	~~<0.5~~	~~0.5~~	~~<2~~	~~3.2~~	~~406~~	~~65~~	~~<3~~	~~<2~~	~~8~~	~~2~~	~~<5~~	~~<1~~	DDH 83-2
93581		7	0.002 27	0.006% 69	22	2	21	158	30	<0.5	0.8	<2	3.2	334	84	<3	<2	8	<2	<5	<1	
93582	→ GRAPHITE ZONE	83	0.010 108	0.201% 2019	<1	36	72	106	7473	9.6	20.1	<2	17.2	48	128	<3	<2	8	10	<5	<1	
93583		68	0.003 36	360 0.036	7	14	67	236	173	0.8	0.6	<2	5.1	201	55	<3	6	2	3	<5	<1	
93584		58	0.003 37	274 0.027	1	14	45	212	74	<0.5	0.4	<2	4.3	157	14	<3	<2	<1	<2	<5	<1	

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REPORT: 423-2861 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	Pb PCT	Zn PCT	Ba PCT	NOTES DDH #
D 93588		<0.002	0.08	0.06	0.74	0.09	H-3 (24.9m ~ 26.5m)
D 93589		<0.002	0.20	0.09	3.70	0.17	H-3 (34.1 ~ 35.7) → PROBABLE OXIDE ZONE PROTECTED FROM TR# I
D 93590		<0.002	0.04	0.04	0.16	0.04	H-3 (54.6 ~ 55.5)
D 93591		<0.002	0.05	0.08	0.40	0.10	H-4 (11.9m ~ 13.7)
D 93592		<0.002	0.05	0.01	0.82	0.04	H-4 (28.6 ~ 29.5) w̄ carbonate
D 93593		<0.002	0.02	<0.01	0.12	0.07	H-4 (42.7 ~ 44.2) LOST CORE HERE
D 93594		<0.002	0.02	<0.01	0.16	0.06	H-4 (44.2 ~ 45.1)
D 93595		<0.002	0.52	0.16	1.29	0.15	H-4 (45.1 ~ 50.6) LOST CORE (ONLY 1.3 M RECOVERED)
D 93596		<0.002	0.05	0.02	0.96	0.12	H-4 (50.6 ~ 51.2) → Dolomitic manganiferous
D 93597		<0.002	1.37	0.13	1.32	0.12	H-4 (101.4 ~ 101.8)
D 93598		<0.002	0.07	<0.01	0.22	0.03	H-4 (181.7 ~ 183.5)
D 93599		<0.002	0.11	<0.01	0.16	0.05	H-4 (185.0 ~ 186.5) → should be at 185.0 to 186.5
D 93600		<0.002	0.06	<0.01	0.16	0.02	H-4 (162.8 ~ 164.3)
D 93601		<0.002	0.02	<0.01	1.54	0.12	H-5 (131.3 ~ 131.6)
D 93602		<0.002	0.02	0.03	0.21	0.13	H-5 (132.2 ~ 132.5) QTZ VEIN w̄ SPH
D 93603		0.002	0.03	0.02	2.10	0.14	H-5 (135.0 ~ 135.7) 1cm QTZ VEIN w̄ SPH + (Pb?)
D 93604		<0.002	0.13	0.14	2.50	0.11	H-5 (135.9 ~ 137.2) 1cm QTZ. VEIN w̄ SPH + Pb(?)
D 93605		<0.002	0.33	0.36	2.22	0.10	H-5 (137.2 ~ 138.7) QTZ VEIN w̄ SPH + Pb
D 93606		<0.002	0.04	0.06	0.48	0.10	H-5 (142.9 ~ 144.1) QTZ VEIN w̄ SPH + Pb
D 93607		<0.002	<0.02	<0.01	0.04	0.22	H-5 (44.1 ~ 44.3) POOR OXIDE ZONE
D 93608		<0.002	<0.02	<0.01	0.19	0.01	H-5 (85.9 ~ 86.0) QTZ. VEIN w̄ SPECKS SPHALERITE.
D 93609		<0.002	<0.02	<0.01	0.02	0.05	H-5 (89.3 ~ 89.33) QTZ. VEIN
D 93610		<0.002	<0.02	<0.01	0.02	0.33	H-5 (231.2 ~ 232.3) STRATIFORM Py (10%) + <1% Po IN U.C.T.I.

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ROCK GEOCHEMISTRY AND RECONNAISSANCE TRENCHING RESULTS

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REPORT: 123-1827 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	NOTES
R M3K-044R		2	22	<0.2	85	
R M3K-048R		<2	8	<0.2	150	
R M3K-050R		2	21	<0.2	15	
R M3K-051R		<2	<1	<0.2	48	
R M3K-052R		81	52	0.4	90	
R M3K-064R		38	40	0.2	570	
R M3K-065R		49	20	0.3	60	
R M3K-066R		33	22	<0.2	65	
R M3K-067R		11	8	<0.2	52	
R M3K-068R		12	15	<0.2	665	
R M3K-069R		8	8	<0.2	98	
R M3K-071R		11	8	<0.2	71	
R M3K-072R		113	71	0.4	128	
R M3K-073R		6	33	<0.2	7650	
R M3K-074R		14	81	<0.2	219	
R M3K-077R		6	10	<0.2	180	
R M3K-078R		3	5	<0.2	50	
R M3K-079R		13	47	<0.2	1650	

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SAMPLE NUMBER	ELEMENT UNITS	As OPT	Pb PCT	Zn PCT	NOTES
R M3K-045R		0.73	0.06	0.07	

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
R M3K-085R		7	12	<0.2	
R M3K-087R		133	103	0.4	
R M3K-088R		21	97	<0.2	
R M3K-089R		247	455	0.7	
R M3K-090R		68	575	0.5	
R M3K-091R		18	125	1.9	
R M3K-092R		11	31	<0.2	
R M3K-093R		5	7	<0.2	
R M3K-094R		4	7	<0.2	
R M3K-095R		29	37	0.3	
R M3K-096R		6	27	<0.2	
R M3K-097R		3	44	<0.2	
R M3K-098R		4	21	<0.2	
R M3K-099R		8	10	<0.2	

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REPORT: 423-2257 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	As OPT	Pb PCT	Zn PCT	Ba PCT	NOTES
#M3M-001-R R NO 93555		<0.002	0.04	<0.01	<0.01	0.01	Line 3600 E
#M3M-0002-R R NO 93556		<0.002	0.06	<0.01	0.74	0.05	51+50N

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REPORT: 123-2257 PROJECT: MEISTER

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	NOTES
R M3K-104R		9	24	<0.2	
R M3K-108R		500	525	> 50.0	
R M3K-111R		10	12	0.7	
R M3K-112R		12	11	0.9	
R M3K-113R		8	14	0.3	

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SAMPLE NUMBER	ELEMENT UNITS	As OPT	NOTES
R M3X-108R		3.91	

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REPORT: 123-3038

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
R 200S 1650E R		7	108	<0.2	
R M3G-5R		260	700	4.8	
R M3G-34R		17	74	1.7	
R M3G-35R		14	70	0.2	
R M3K-124R		53	59	2.4	
R M3K-125R		24	75	0.7	
R M3K-128R		9	24	0.4	
R M3K-129R		4	50	<0.2	
R M3K-130R		14	95	<0.2	
R M3K-131R		2	88	<0.2	
R M3K-132R		7	16	0.3	
R M3K-133R		24	10	0.2	
R M3K-134R		19	99	0.3	
R M3K-135R		18	328	0.2	
R M3K-137R		12	59	0.4	
R M3K-138R		3	64	<0.2	
R M3K-139R		14	58	0.2	
R M3K-140R		<2	25	<0.2	
R M3K-141R		9	37	0.2	
R M3K-142R		12	25	0.2	
R M3M Pit 4 R		6	39	<0.2	

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REPORT: 423-3038

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SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	Pb PCT	Zn PCT	Mn PCT	Ba PCT	NOTES
R M3K-119R			<0.02		<0.01	0.01			
R M3K-121R			1.72		0.06	0.10			
R M3K-123R			0.60		0.04	0.13			
R 93585		<0.002	0.05	<0.01	<0.01	0.11	0.06	0.03	DANE PROPERTY SAMPLE A H.W.?
R 93586		0.002	0.06	0.02	0.04	4.70	8.00	0.01	DANE PROPERTY SAMPLE B (MANGAN Pb ZON
R 93587		<0.002	<0.02	<0.01	<0.01	0.04	0.12	0.03	DANE PROPERTY SAMPLE C F.W.?

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REPORT: 123-3049

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Mn PPM	Fe PCT	As PPM	Hg PPB	Au PPB	NOTES
R 93643		> 10000	730	19.0	185	2.70	240	20	<5	
R 93644		74	36	0.3	3800	5.50	125	20	5	
R 93645		52	24	0.7	148	1.00	230	5	10	
R 93646		14	10	<0.2	72	0.45	27	20	<5	
R 93647		8	19	<0.2	70	0.60	7	10	10	
R 93648		4	79	<0.2	70	2.60	20	10	<5	

Line 36+00E.

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SAMPLE NUMBER	ELEMENT UNITS	Pb PCT	NOTES
R 93643		1.17	36+00E , 46+50N

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SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	NOTES
R M3G-51R		4	4	0.2	
R M3G-53R		19	20	1.5	
R M3K-143R		2	22	0.4	
R M3K-144R		3	56	2.2	
R M3K-145R		4	39	2.5	
R M3K-146R		11	48	0.4	
R M3K-147R		4	83	<0.2	
R M3K-148R		9	4	0.2	
R M3K-149R		4	11	0.2	
R M3K-150R		7	4	<0.2	
R M3K-152R		2	25	<0.2	
R M3K-153R		7	108	<0.2	
R M3K-154R		3	108	<0.2	
R M3K-155R		7	73	<0.2	
R M3K-156R		6	20	0.3	
R M3K-157R		15	148	0.4	
R M3K-158R		13	114	0.3	
R M3K-159R		4	82	0.2	
R M3K-160R		4	15	<0.2	

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SAMPLE NUMBER	ELEMENT UNITS	Zn PCT	Ag OPT	NOTES
S M3G-43		13.00		
S M3H-102			15.90	
S M3H-103			4.78	

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WEST ZONE TRENCH RESULTS

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SAMPLE NUMBER	ELEMENT UNITS	Ag oz OPT	Pb % PCT	Zn % PCT	Mn PCT	NOTES
TR3 R 93508	0 - 1	0.50	0.04	3.10	13.80	TR3
R 93509	1 - 2	0.45	0.04	3.15	14.50	
R 93510	2 - 3	1.10	0.04	1.37	14.00	
R 93511	3 - 4	1.56	0.20	7.65	12.60	
R 93512	4 - 5	4.03	0.18	7.30	16.80	
R 93513	5 - 6	1.24	0.11	7.20	13.00	
R 93514	6 - 7	3.98	0.26	6.40	11.40	
R 93515	7 - 8	3.76	0.31	9.50	13.80	
R 93516	8 - 9	1.27	0.08	11.40	14.40	
R 93517	9 - 10	1.81	0.11	4.70	12.60	
R 93518	10 - 11	1.31	0.04	6.10	13.30	
R 93519	11 - 12	0.62	0.04	6.00	14.55	
R 93520	12 - 13	0.93	0.04	5.90	12.90	
R 93521	13 - 14	1.03	0.07	5.85	11.70	
R 93522	14 - 15	1.18	0.04	5.83	13.70	
R 93523	15 - 16	0.96	0.02	4.35	15.25	
R 93524	16 - 17	1.92	0.10	3.00	13.50	
R 93525	17 - 18	1.47	0.18	10.95	17.40	
R R 93526	0 - 2	0.49	0.35	2.10	2.88	TR2
2 R 93527	2 - 4	1.32	0.98	17.00	11.00	
R 93528	4 - 6	1.57	0.19	16.60	13.40	
R 93529	6 - 8	1.68	0.19	13.70	4.60	
R 93530	8 - 10	1.30	0.18	14.10	7.60	
R 93531	10 - 12	3.09	0.22	17.10	9.15	
R 93532	12 - 14	0.27	0.12	3.00	1.85	
TR 6 R 93533	0 - 1	1.19	1.26	6.95	10.60	TR 6
R 93534	1 - 2	0.25	0.49	7.03	3.97	
R 93535	2 - 3	0.64	1.17	11.10	11.70	
R 93536	3 - 4	0.82	1.07	12.40	22.00	
R 93537	4 - 5	0.30	0.14	3.35	16.20	
R 93538	5 - 6	0.15	0.02	2.70	11.70	
R 93539	6 - 7	1.44	0.04	2.15	12.70	
R 93540	7 - 8	3.10	0.06	4.40	11.55	
R 93541	8 - 9	1.60	0.32	3.65	6.50	
R 93542	9 - 10	0.40	0.58	1.28	2.24	
TR1 R 93543	0 - 2	0.81	1.14	7.70	12.10	TR1
R 93544	2 - 4	0.57	0.10	14.25	13.00	
R 93545	4 - 6	1.06	1.40	14.90	11.30	
R 93546	6 - 8	1.33	0.13	4.15	4.50	
TR 3A R 93547	0 - 1	1.30	0.05	7.10	16.80	TR 3A

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Pb PCT	Zn PCT	Mn PCT	NOT
TR3A R 93548	1 - 2	0.62	0.02	3.70	9.15	TR 3A
R 93549	2 - 3	0.46	0.03	8.60	10.40	
R 93550	3 - 4	0.65	0.03	14.80	7.60	
TR4 R 93551		0.13	0.03	0.50	0.71	TR4
TR5 R 93552	1 - 3	0.12	0.12	0.23	0.05	TR 5
R 93553	3 - 5	0.07	0.02	0.10	0.10	

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REPORT: 123-2117 PROJECT: MEISTER

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SAMPLE NUMBER	ELEMENT UNITS	Fe PCT	Au PPB	NOTES
R 93508	TR [illegible]	>10.00	10	
R 93509		>10.00	5	
R 93510		>10.00	5	
R 93511		>10.00	30	
R 93512		>10.00	<5	
R 93513		>10.00	15	
R 93514		>10.00	20	
R 93515		>10.00	<5	
R 93516		>10.00	10	
R 93517		>10.00	25	
R 93518		>10.00	10	
R 93519		>10.00	20	
R 93520		>10.00	55	
R 93521		>10.00	70	
R 93522		>10.00	50	
R 93523		>10.00	45	
R 93524		>10.00	20	
R 93525	TR 3	>10.00	25	
R 93526	TR 2	>10.00	5	
R 93527		>10.00	25	
R 93528		>10.00	80	
R 93529		>10.00	95	
R 93530		>10.00	65	
R 93531		>10.00	25	
R 93532	TR 2	>10.00	15	
R 93533	TR 6	>10.00	115	
R 93534		7.50	25	
R 93535		>10.00	55	
R 93536		>10.00	65	
R 93537		>10.00	30	
R 93538		>10.00	50	
R 93539		>10.00	35	
R 93540		>10.00	25	
R 93541		>10.00	45	
R 93542	TR 6	>10.00	20	
R 93543	TR 1	>10.00	35	
R 93544		>10.00	25	
R 93545		>10.00	50	
R 93546	TR 1	>10.00	35	
R 93547	TR 2A	>10.00	5	
R 93548	TR 2A	>10.00	5	
R 93549		>10.00	10	
R 93550	TR 2A	>10.00	70	
R 93551	TR [illegible]	5.50	<5	
R 93552	TR	3.90	15	
R 93553	TR	4.50	<5	

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REPORT: 423-2211 PROJECT: MEISTER

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au OPT	Ag OPT	Cu PCT	Pb PCT	Zn PCT	Ba PCT	NOTES
R $TR-11: 93554		0.010	76.00	0.02	67.32	0.23	0.04	Grab of high grade Sulphide from 11A

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REPORT: 423-2860 PROJECT: MEISTER

PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	As OPT	Pb PCT	Zn PCT	Mn PCT	Au	NOTES
R 93557	0-3	0.16	0.53	1.40	2.54		Trench 11
R 93558	3-6	0.05	0.19	0.54	0.42		
R 93559	6-9	0.12	0.22	2.50	0.69		
R 93560	9-12	0.39	0.27	8.85	7.00		
R 93561	12-13	0.70	0.12	10.80	12.80		
R 93562	13-14	0.56	0.10	9.60	12.90		7m Zn 8.90%
R 93563	14-15	0.80	0.27	8.30	11.20		Mn 9.18%
R 93564	15-16	1.10	0.33	7.06	6.40		
R 93565	16-17	3.11	0.73	3.55	4.10		
R 93566	17-18	0.73	2.38	1.30	0.59		
R 93567	18-19	0.56	0.81	3.70	0.92		
R 93568	19-20	1.11	0.18	3.40	6.16		
R 93569	20-21	0.37	0.34	1.00	1.06		
R 93570	21-22	0.06	0.64	0.60	0.31		
	22m	0.51	0.43	4.05	4.02		

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REPORT: 223-2860 PROJECT: MEISTER

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Fe PCT	Au PPB	NOTES	SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	Ag PPM	Fe PCT	Au PPB	NO
S L4800E 35+00N		29	160	0.2				S M3H-7		420	6600	25.0			
S L4800E 35+50N		101	460	<0.2				S M3H-8		880	4800	10.0			
S L4800E 36+00N		39	144	<0.2				S M3K-122S		1300	1090	> 50.0			
S L4800E 36+50N		45	80	<0.2				S M3K-126S		58	125	0.3			
S L4800E 37+00N		49	116	<0.2				S M3K-127S		145	440	0.6			
S L4800E 37+50N		35	8	0.3				S M3K PIT-3		178	620	1.1			
S L4800E 38+00N		109	123	0.3				S M3K PIT-4A		76	135	3.3			
S L4800E 38+50N		76	102	0.4				S M3K PIT-4B		22	100	0.8			
S L4800E 39+00N		51	115	0.3				S M3K PIT-5		230	390	2.1			
S L4800E 39+50N		63	244	0.5				S M3K PIT-6		320	430	1.5			
S L5000E 29+00N		72	220	0.2				S M3K PIT-7		230	405	5.6			
S L5000E 29+50N		26	156	<0.2				S M3K PIT-8		111	285	2.4			
S L5000E 30+00N		16	110	<0.2				S M3M PIT-2		155	255	3.2			
S L5000E 30+50N		25	110	<0.2			TRENCH 10	S M3M TRIOS		> 10000	> 20000	23.0			
S L5000E 31+00N		13	90	<0.2			TRENCH 11 0-3	R 93557	TR 11				3.70	5	
S L5000E 31+50N		14	61	<0.2			3-6	R 93558					1.55	<5	
S L5000E 32+00N		11	44	0.2			6-9	R 93559					3.05	10	
S L5000E 32+50N		16	57	<0.2			9-12	R 93560					>10.00	10	
S L5000E 33+00N		20	77	<0.2			12-13	R 93561					>10.00	25	
S L5000E 33+50N		14	68	<0.2			13-14	R 93562	TR11				>10.00	30	
S L5000E 34+00N		14	103	<0.2			14-15	R 93563					>10.00	45	
S L5000E 34+50N		15	78	<0.2			15-16	R 93564					>10.00	90	
S L5000E 35+00N		18	135	<0.2			16-17	R 93565	FAULT				>10.00	345	
S L5000E 35+50N		69	400	<0.2			17-18	R 93566	ZONE				>10.00	265	
S L5000E 36+00N		40	195	0.2			18-19	R 93567					>10.00	20	
S L5000E 36+50N		79	181	0.4			19-20	R 93568					>10.00	30	
S L5000E 37+00N		151	420	0.4			20-21	R 93569					>10.00	50	
S L5000E 37+50N		49	112	0.2			21-22	R 93570					9.50	30	
S L5000E 38+00N		40	90	0.2											
S L5000E 38+50N		48	89	0.3											
S BL400W-3300N		640	1260	25.0											
S M3G-6		330	510	3.0											
S M3G-7		148	268	1.4											
S M3G-8		230	390	2.3											
S M3G-9		94	325	2.0											
S M3G-10		36	128	0.7											
S M3G-11		171	263	2.0											
S M3G-12		116	298	2.0											
S M3G-13		79	156	1.8											
S M3H-6		27	1100	1.5											

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REPORT: 623-2860

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	As OPT	Pb PCT	Zn PCT	NOTES
S M3K-122S		1.78			
S M3M-TRIOS			1.07	5.30	TRENCH 10

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REPORT: 423-3039

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Ag OPT	Pb PCT	Zn PCT	Mn PCT	FeTot PCT	NOTES Au ppb	
R 93571	0-2	0.35	0.54	3.15	14.84	18.67	10	TRENCH 13
R 93572	2-3	0.59	1.15	1.60	1.34	16.57	5	
R 93573	3-4	4.82	7.90	3.68	16.09	25.30	50	
R 93574	4-5	4.02	3.89	3.55	22.54	26.81	40	
R 93575	5-6	0.65	0.69	4.40	15.55	36.19	15	
R 93611	6-7	4.79	7.45	3.73	7.85	37.10	50	
R 93612	7-8	3.47	3.05	3.40	8.83	38.30	65	
R 93613	8-9	3.17	3.13	5.74	11.98	29.67	70	
R 93614	9-12	2.30	1.60	1.79	4.55	19.78	30	
R 93615	0-1	0.35	0.64	11.60	15.78	27.26	10	TRENCH 14
R 93616	1-2	0.27	0.16	13.00	29.92	15.56	10	
R 93617	2-3	0.70	0.18	26.81	26.48	9.02	10	
R 93618	3-4	0.80	0.60	26.74	12.00	16.82	10	
R 93619	4-5	3.56	1.16	13.65	11.60	30.02	30	
R 93620	5-6	2.64	0.74	7.32	12.10	37.10	30	
R 93621	6-7	2.71	0.62	3.66	13.20	34.14	15	
R 93622	7-8	1.72	0.50	3.70	7.90	25.15	25	
R 93623	8-9	0.12	0.08	1.23	0.40	6.28	<5	
R 93624	9-10	0.08	0.06	0.85	0.30	5.57	<5	

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REPORT: 123-3039

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Au PPB	NOTES
R 93571	TR 13	10	
R 93572		5	
R 93573		50	
R 93574		40	
R 93575		15	
R 93611	TR 13	50	
R 93612		65	
R 93613		70	
R 93614		30	
R 93615	TR.14	10	
R 93616		10	
R 93617		10	
R 93618		10	
R 93619		30	
R 93620		30	
R 93621		15	
R 93622		25	
R 93623		<5	
R 93624		<5	

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Geochemical Lab Report

REPORT: 123-3048

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	Pb PPM	Zn PPM	As PPM	Mn PPM	Fe PCT	As PPM	Hg PPB	Au PPB	NOTES
R 93629	TR.16								125	OXIDE WITHIN FAULT ZONE HIGH AU.
R 93630	TR.16								20	
R 93631	TR.16								50	
R 93632	TR.15								40	
R 93633	TR.15								85	
R 93634	TR.15								15	
R 93635									<5	LOW AU AWAY FROM FAULT ZONE
R 93636	o/c MARBLE	16	65	<0.2	150	0.10	8	<5	<5	20 M. EAST TR. 16 (L32+00E EAST OF E)
R 93637	o/c AT DDH-4 SITE T.I.	40	95	0.2	350	1.55	12	5	<5	→ 43+00N L32+00E
R 93638	o/c L32+00E 43+62N MARBLE	11	151	<0.2	2500	0.45	100	<5	<5	
R 93639	o/c L32+00E 43+76N MARBLE	11	13	<0.2	210	0.30	7	5	<5	
R 93640	o/c L32+00E 43+87N	12	45	<0.2	245	0.20	18	<5	<5	→ MARBLE
R 93641	o/c U.C. TI L32+00E 42+75N	6	97	<0.2	55	4.50	9	10	<5	
R 93642	o/c CARBONATE w SCHIST F.S.? L32+00E 42+50N	4	35	<0.2	395	1.75	5	15	<5	

VALUES FOR ELEMENTS GENERALLY < ~~SOUTH OF~~ FAULT SYSTEM DOWN L32+00E FOR ABOVE SAMPLES

RANDOM ROCK SAMPLES ~~T~~ TAKEN IRRESPECTIVE OF LITHOLOGY

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REPORT: 423-3048

PROJECT: MEISTER PAGE 1

SAMPLE NUMBER	ELEMENT UNITS	As OPT	Pb PCT	Zn PCT	Mn PCT	FeTot PCT	NOTES
R 93629	at 6m	0.66	0.49	1.46	0.20	31.43	TR #16
R 93630	at 15m	0.17	0.16	16.83	1.29	34.10	
R 93631	at 20m	1.48	0.25	10.80	7.90	32.53	
R 93632	at 4m	2.58	0.38	2.98	8.05	27.11	TR #15
R 93633	at 7m	1.60	0.93	2.90	0.22	45.93	
R 93634	at 21m	0.99	0.11	23.84	7.30	22.79	
R 93635	at 0.0m	0.07	0.03	0.12	0.06	3.46	

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APPENDIX "G"

GRAVITY REPORT

(Ager, Baretta & Ellis)

APPENDIX "G"

CORDILLERAN ENGINEERING

MEISTER PROPERTY - MR CLAIM GROUP
YUKON TERRITORY

WEST, EAST AND SOUTH GRIDS
60° 18′ North 130° 20′ West

GRAVITY SURVEY 1983

Ager, Berretta & Ellis Inc.

November 1983

AGER, BERRETTA & ELLIS INC.

Telephone: (604) 669-7748
CONSULTING
GEOPHYSICISTS
606 - 595 Howe Street
Vancouver, B.C., Canada
V6C 2T5

SUMMARY

Gravity surveys were carried out on the West, East and South Zones of the Meister Property, Yukon Territories. Close spaced, detail stations were read over some areas of known mineralization. The gravity survey results indicate that the zone of known mineralization extends a few hundreds of metres along strike but that in some areas it has no depth extent.

Other areas of interest have been specified and further work has been recommended on all three grids.

Yours truly,

AGER, BERRETTA & ELLIS INC.

Gordon Ellis

TABLE OF CONTENTS

At the request of Regional Resources Ltd., Ager, Berretta & Ellis Inc. completed gravity surveys over three grids on the MR claim Group, Yukon territories (Figure 1). The project area is located approximately 15 kilometres north west of mile 690 on the Alaska Highway. Steeply dipping beds containing massive sulphides were known to exist in the area.

SURVEY PROCEDURES

Crews stayed in Regional Resources' camp on the west grid (Figure 2). A gravity base was established at the camp and on each of the other grids. (See descriptions in Appendix A.)

Gravity observations were made using a Lacoste & Romberg model G gravity meter with a reading accuracy of ± 0.01 milligals. Instrument and diurnal drift were accounted for by making internal grid ties and base station ties and drifting the data accordingly.

Elevations were determined by using optical levels and rods. Standard leveling and survey closure methods were used and station elevations were calculated to within a relative accuracy of ± 0.03 metres.

Field results were calculated and plotted on micro-computers in the field. Field maps were left with the client on site.

GENERAL GEOLOGY

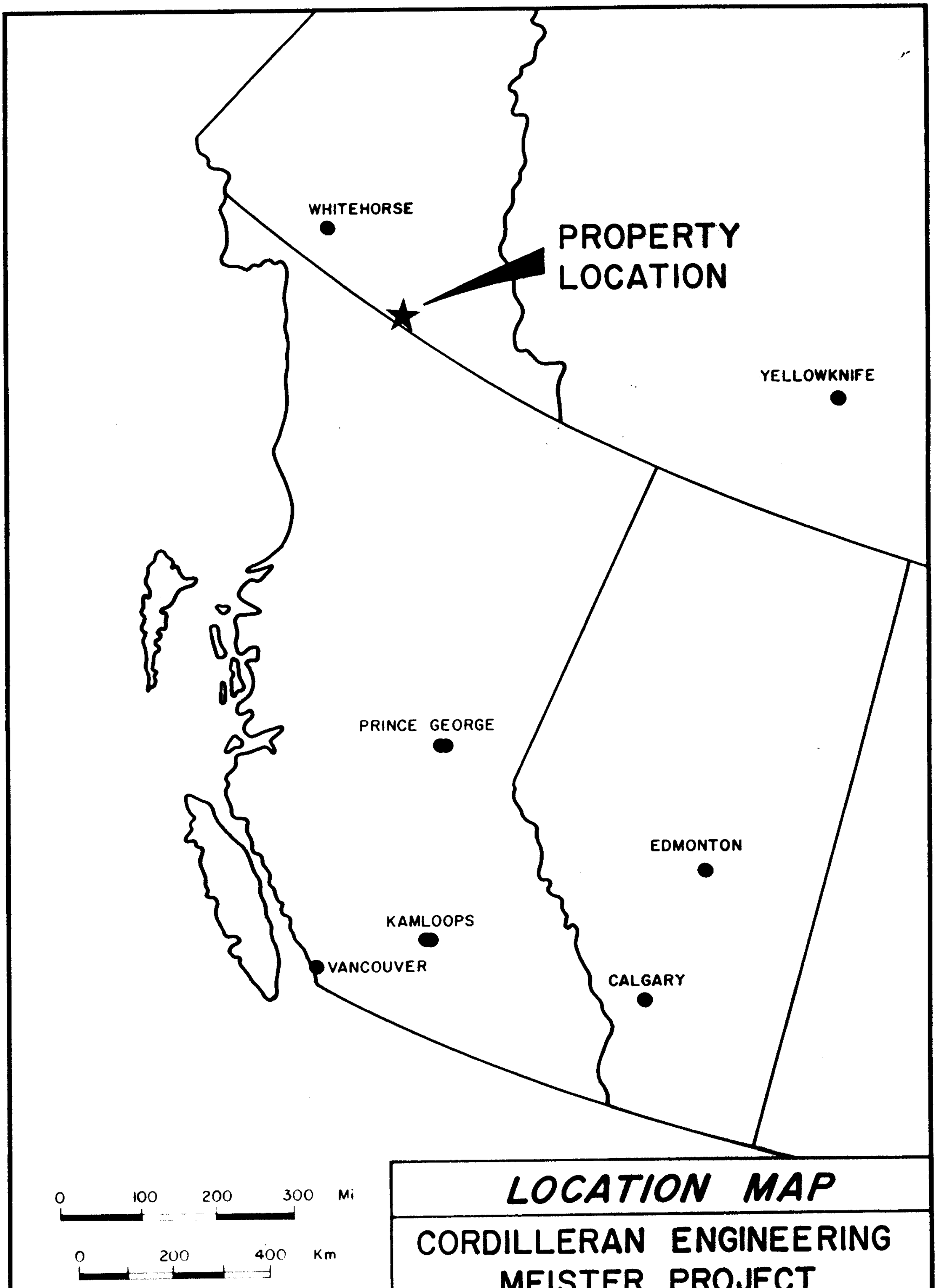
A brief description of the rock units within the project area are given in Figure 3. Carbonates predominate throughout the region but Unit 3, Phyllite, Limestone, Marble, Schist is the potential mineralization host.

SURVEY RESULTS

WEST ZONE

In the West zone (Figure 4) a highly oxidized zone of mineralization outcrops to the north of the road between lines 3200E and 2800E and again briefly on 2400E. The following signatures were obtained on the gravity traverses crossing the exposed mineralization.

- line 3200 east @ 4290 north, a residual of approximately 0.11 milligals.
- line 3000 east, a detail line resulted in no obvious anomaly.



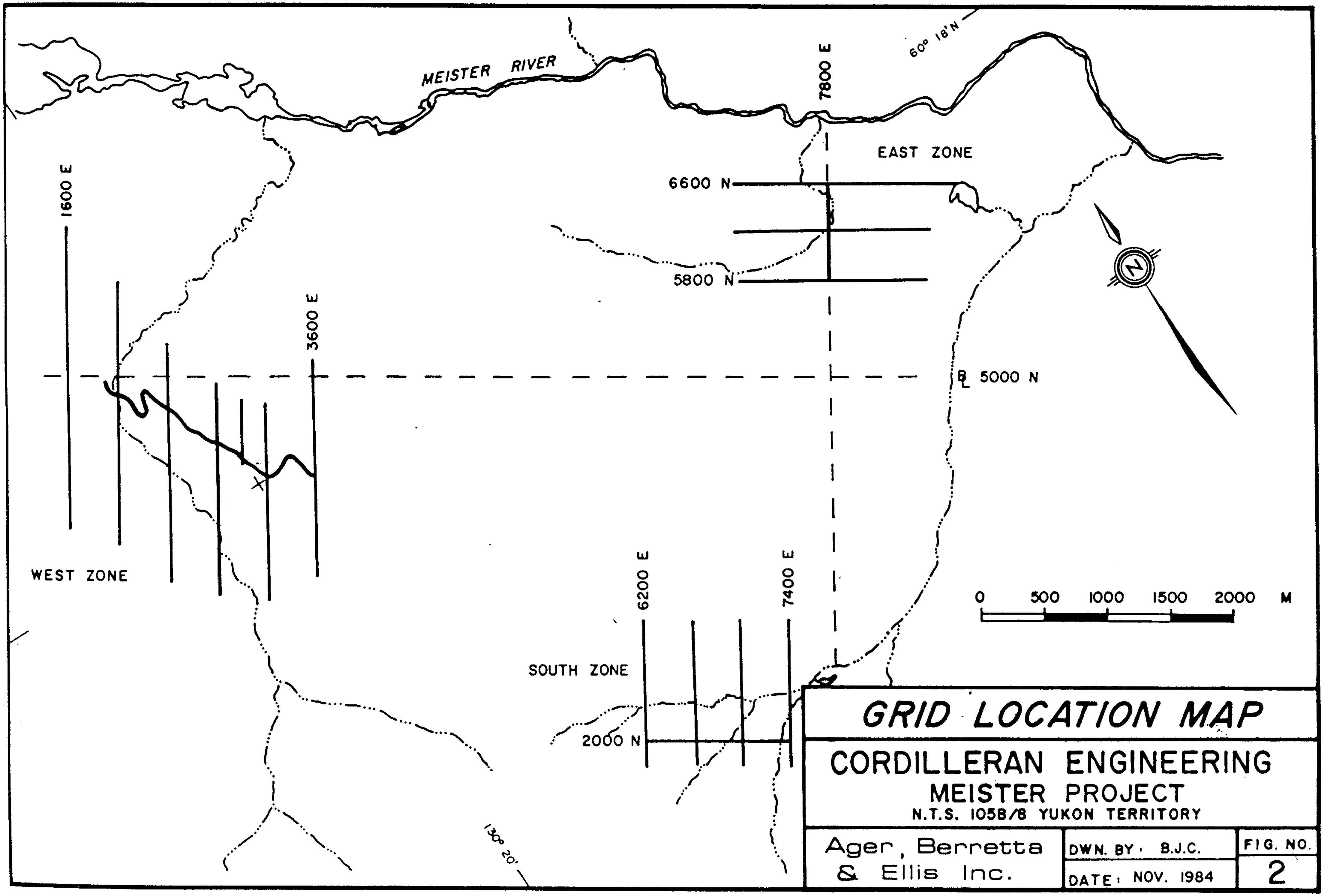
LOCATION MAP

CORDILLERAN ENGINEERING
MEISTER PROJECT

Ager, Berretta
& Ellis Inc.

DWN BY B.J.C.
DATE NOV 1983

FIG NO
1

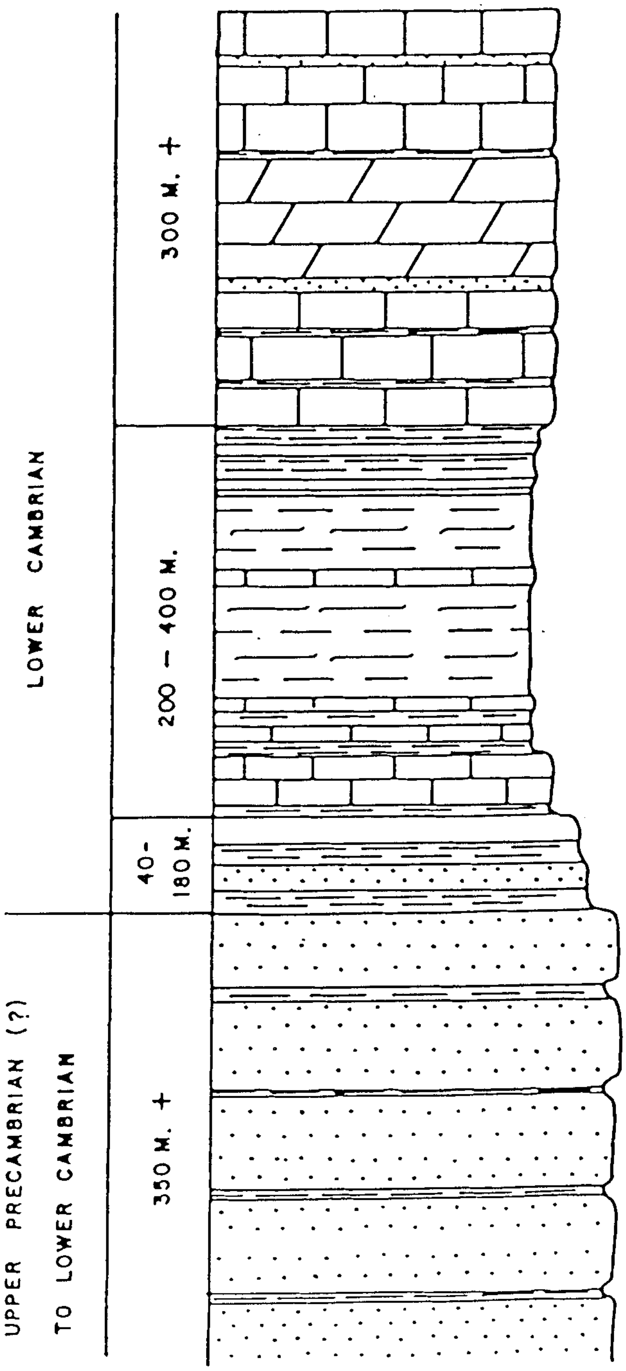


GRID LOCATION MAP

CORDILLERAN ENGINEERING
MEISTER PROJECT
N.T.S. 105B/8 YUKON TERRITORY

Ager, Berretta & Ellis Inc.

DWN. BY: B.J.C.		FIG. NO.
DATE: NOV. 1984		2



Unit 4

Atan Group: Limestone, Dolostone and Marble.

Platy to blocky limestone and buff weathering dolostone. Coarsely crystalline facies common. Frequent phyllite laminae. Local thin calcarenite beds.

Unit 3

Phyllite, Limestone/ Marble, Schist.

Well foliated, graphitic phyllite, locally calcareous, silty and/or sericitic, interbedded to interlaminated with white to light gray limestone and/or marble. Minor calc-schist and quartz biotite schist. Hosts Zn-Pb-Ag mineralization.

Unit 2

Quartzite and Phyllite.

Transitional unit: micaceous, "dirty" quartzite interbedded to interlaminated with pale green to black, silty phyllite Local quartz-mica schist.

Unit 1

Windermere Super-Group ("Grit Unit"): Quartzite.

Thick bedded, "clean", white quartzite. Minor thin interbeds of phyllite and quartz-mica schist. Local graded bedding.

MR CLAIM GROUP

STRATIGRAPHIC SECTION

FIGURE 3

- line 2800 east, at 4550 north, a residual anomaly of 0.16 milligals.

- line 2400 east at 4770 north a residual anomaly of approximately 0.15 milligals.

The anomalies on lines 3200, 2800 and 2400 are consistent with what would be expected from a steeply dipping massive sulphide source a few metres thick.

Uphill to the north end of these lines, interpretation of the gravity data is confused by the obviously large terrain effect caused by the steep hill and cliff at the end of the lines.

In the projected vicinity of the known mineralization there is a residual anomaly in the order of 0.1 to 0.2 milligals on lines 2000E through 3600E with the exception of line 3000 (Figure 6). The entire length of this anomaly warrants further investigation.

A number of other residual anomalies are outlined on Figure 6. Anomaly 2 has a maximum amplitude of almost 0.3 milligals at 4700 on line 2000. Anomaly 3 has a maximum amplitude of over .3 milligals on line 2000 and line 2400. Both anomaly 2 and anomaly 3 are much broader than 1. These signatures are more indicative of a deeper, more massive source than the source from anomaly 1. These signatures could also be a function of variation in overburden depth or different rock units. Their location in geological unit 3 renders them priority targets.

Group 4 is a number of smaller responses. The anomaly is probably caused by deepening overburden in the swampy areas north and south of the camp. The group on line 2400 consists of three signatures in the order of 0.1 milligals. The northern most is approximately 30 metres wide. The two southern ones are one or two station responses. These and the two on line 2000 are similar to the signatures of anomaly 1.

The two anomalies in Group 5 are similar to those in 2 and their source may be an extension of the source of 2.

Due to the distance between lines and the changing strike of the stratigraphy, the relationships between anomalies on adjacent lines is sometimes questionable.

EAST ZONE

The steep gravity gradient on the east side of the grid infers a major contact, probably the unit 3 to unit 4 contact.

Anomalous zone 1 continues through all three lines. A broad response of greater than 0.3 milligals on line 6600N diminishes to less than 0.2 on lines 6200 and 5800. These broad signatures are indicative of a rock unit or a deeper, narrow, steeply dipping massive source. This anomaly warrants further investigation.

Anomalous zone 2 is in the vicinity of a known graphitic outcrop near 6300. Depending on the geologic significance of the graphitic zone and potential for associated mineralization this signature could warrant further investigation. This group again is representative of a rock unit or a steeply dipping, more dense source at depth.

Anomalous zone 3 is coincident with the transition zone between units 2 and 3. Once again this signature is indicative of a rock unit such as the transition zone. The signature on line 6600 has an additional response within the broad high. This warrants further investigation.

Anomalous group 4, is within rock unit 1 and therefore of secondary interest.

SOUTH ZONE

Anomalous zone 1 is on the unit 3, unit 4 contact. The signature within this zone on line 6200 warrants further investigation. The broad high on line 6600 of the Simple Bouguer map appears to be related to a large, local stratigraphic feature and is of secondary interest in a massive sulphide search.

Anomalous group 2 are within unit 3 and of low priority interest.

RECOMMENDATIONS

Reconnaissance induced polarization and electromagnetic surveys were carried out on the west zone during the 1983 field season. The results of these surveys are in the hands of Jim Hennison of Getty Canadian Metals Limited. The I.P. and E.M. survey data should be correlated carefully with the gravity data and known geological parameters in order to determine the most effective follow-up exploration methods. If a definitive correlation is found between any one of the geophysical methods, the gravity and favourable geology, that geophysical method should be used on the following areas as outlined in Figures 6 and 7.

WEST ZONE

LINE 2000E, 3800 to 5400N
LINE 2400E, 3600 to 5000N

Upon assessing the results on the above lines, the following lines may warrant surveying:

LINE 1600E, 4200 to 5400N
LINE 2800E, 3600 to 4600N
LINE 3200E to be determined.

EAST ZONE

LINE 6600N, 7000E to 8500E
LINE 6200N, 7400E to 8400E

If results are favourable, complete line 5800N also.

SOUTH ZONE

LINE 6200E, 2000N to 2600N

The order of priority for these areas is as above;

West zone, East zone, South zone

If it is shown that any of these anomalies are of economic interest, intermediate gravity lines should be completed in order to assist in tracing the extend of the source. In the case of a response such as zone 1 in the West zone, the station spacing should be reduced to 5 metres over the target.

APPENDIX A - DATA LISTING

Elevation Datum: Adjusted from NTS Sheet 105B
Gravity Datum as Printed: Arbitrary
Elevation Factor Density as Printed: 2.67 grams/cc

Gravity Datum, approximately 981,589.8 milligals at GB83-1

Gravity Base Station

GB83-1	35 + 40N	28 + 50E	981,589.80
GB83-2	26 + 37N	76 + 75E	981,588.68
GB83-3	61 + 95N	81 + 00E	981,623.50

Gravity Meters: July 6-13: LaCoste & Romberg Model G, S/N 393
July 14-end:LaCoste & Romberg Model G, S/N 353

Field Work: July 6 to August 9, 1983

Crew:
Rob Thompson - Party Chief
Larry Carlson - Operator
Tom Roney - Operator
Peter Peller - Geophysicist (July only)
Gordon Ellis - Supervision, interpretation

LINE 1600E WEST ZONE

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 6250N	1038.50	3407.15	138.89	1.00	0.00	344.16
0E 6200N	1042.74	3421.05	138.00	1.03	0.00	344.14
0E 6150N	1045.07	3428.71	137.48	1.06	0.00	344.11
0E 6100N	1050.23	3445.63	136.55	1.09	0.00	344.22
0E 6050N	1056.74	3467.01	135.25	1.12	0.00	344.23
0E 6000N	1063.47	3489.07	133.83	1.15	0.00	344.16
0E 5950N	1070.03	3510.60	132.47	1.18	0.00	344.13
0E 5925N	1074.91	3526.60	131.50	1.20	0.00	344.14
0E 5900N	1081.85	3549.37	130.04	1.21	0.00	344.05
0E 5875N	1085.71	3562.04	129.29	1.23	0.00	344.08
0E 5850N	1089.53	3574.59	128.48	1.24	0.00	344.03
0E 5825N	1092.94	3585.76	127.81	1.26	0.00	344.05
0E 5800N	1095.68	3594.75	127.28	1.27	0.00	344.07
0E 5775N	1098.51	3604.03	126.73	1.29	0.00	344.10
0E 5750N	1101.11	3612.57	126.18	1.30	0.00	344.07
0E 5737N	1102.27	3616.36	125.98	1.31	0.00	344.11
0E 5725N	1103.15	3619.25	125.74	1.32	0.00	344.05
0E 5712N	1105.03	3625.42	125.34	1.32	0.00	344.02
0E 5700N	1106.10	3628.95	125.11	1.33	0.00	344.01
0E 5687N	1106.73	3630.99	125.07	1.34	0.00	344.10
0E 5675N	1107.91	3634.86	124.82	1.35	0.00	344.10
0E 5662N	1109.49	3640.05	124.53	1.35	0.00	344.12
0E 5650N	1109.12	3638.85	124.60	1.36	0.00	344.12
0E 5637N	1107.84	3634.65	124.90	1.37	0.00	344.18
0E 5625N	1107.66	3634.05	124.92	1.38	0.00	344.18
0E 5612N	1107.16	3632.40	125.08	1.38	0.00	344.24
0E 5600N	1107.00	3631.88	125.05	1.39	0.00	344.19
0E 5587N	1106.98	3631.83	125.07	1.40	0.00	344.21
0E 5575N	1107.75	3634.34	124.93	1.41	0.00	344.23
0E 5562N	1107.56	3633.72	124.95	1.41	0.00	344.22
0E 5550N	1108.34	3636.28	124.76	1.42	0.00	344.19
0E 5537N	1108.73	3637.55	124.69	1.43	0.00	344.21
0E 5525N	1109.44	3639.88	124.50	1.44	0.00	344.17
0E 5512N	1109.82	3641.15	124.58	1.44	0.00	344.32
0E 5500N	1110.02	3641.81	124.37	1.45	0.00	344.16
0E 5487N	1110.37	3642.94	124.26	1.46	0.00	344.13
0E 5475N	1110.82	3644.41	124.20	1.47	0.00	344.17
0E 5462N	1111.47	3646.56	123.95	1.47	0.00	344.05
0E 5450N	1112.47	3649.84	123.73	1.48	0.00	344.03
0E 5437N	1112.59	3650.24	123.71	1.49	0.00	344.05
0E 5425N	1113.06	3651.76	123.63	1.50	0.00	344.07
0E 5412N	1113.51	3653.25	123.53	1.50	0.00	344.06
0E 5387N	1114.25	3655.68	123.31	1.52	0.00	344.00
0E 5375N	1115.02	3658.20	123.10	1.53	0.00	343.95
0E 5362N	1115.25	3658.97	123.08	1.53	0.00	343.98
0E 5350N	1115.48	3659.72	122.99	1.54	0.00	343.95
0E 5337N	1115.66	3660.31	122.95	1.55	0.00	343.95
0E 5325N	1114.53	3656.59	123.13	1.56	0.00	343.92
0E 5312N	1114.61	3656.86	123.10	1.56	0.00	343.90
0E 5300N	1114.03	3654.95	123.20	1.57	0.00	343.90

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 5287N	1112.62	3650.34	123.42	1.58	0.00	343.85
0E 5275N	1112.24	3649.08	123.48	1.59	0.00	343.85
0E 5262N	1112.01	3648.34	123.46	1.59	0.00	343.78
0E 5250N	1111.60	3646.97	123.56	1.60	0.00	343.81
0E 5237N	1111.07	3645.23	123.66	1.61	0.00	343.82
0E 5225N	1110.67	3643.94	123.76	1.62	0.00	343.85
0E 5212N	1110.24	3642.53	123.80	1.62	0.00	343.80
0E 5162N	1109.97	3641.64	123.63	1.65	0.00	343.61
0E 5150N	1109.69	3640.70	123.71	1.66	0.00	343.65
0E 5137N	1109.18	3639.05	123.77	1.67	0.00	343.62
0E 5125N	1108.47	3636.71	123.85	1.68	0.00	343.57
0E 5112N	1107.48	3633.47	124.10	1.68	0.00	343.62
0E 5100N	1106.83	3631.34	124.22	1.69	0.00	343.62
0E 5087N	1105.83	3628.05	124.54	1.70	0.00	343.76
0E 5075N	1104.91	3625.02	124.72	1.71	0.00	343.77
0E 5062N	1105.23	3626.08	124.68	1.72	0.00	343.80
0E 5050N	1106.46	3630.11	124.46	1.72	0.00	343.82
0E 5037N	1106.67	3630.80	124.40	1.73	0.00	343.81
0E 5025N	1103.42	3620.16	124.95	1.74	0.00	343.73
0E 5012N	1101.01	3612.23	125.47	1.75	0.00	343.79
0E 5000N	1100.20	3609.57	125.58	1.75	0.00	343.74
0E 4987N	1101.23	3612.96	125.32	1.76	0.00	343.69
0E 4975N	1101.64	3614.29	125.17	1.77	0.00	343.63
0E 4962N	1101.93	3615.26	125.14	1.78	0.00	343.67
0E 4950N	1101.46	3613.73	125.23	1.78	0.00	343.67
0E 4937N	1102.11	3615.84	125.15	1.79	0.00	343.73
0E 4925N	1103.14	3619.23	124.87	1.80	0.00	343.66
0E 4912N	1103.49	3620.39	124.86	1.81	0.00	343.73
0E 4900N	1101.35	3613.35	125.20	1.81	0.00	343.65
0E 4887N	1099.67	3607.85	125.52	1.82	0.00	343.65
0E 4875N	1097.96	3602.24	125.81	1.83	0.00	343.61
0E 4862N	1096.99	3599.06	126.02	1.84	0.00	343.64
0E 4850N	1096.11	3596.15	126.12	1.84	0.00	343.57
0E 4837N	1097.86	3601.89	125.77	1.85	0.00	343.57
0E 4825N	1100.49	3610.53	125.19	1.86	0.00	343.52
0E 4812N	1099.26	3606.48	125.41	1.87	0.00	343.50
0E 4800N	1096.39	3597.07	126.09	1.87	0.00	343.62
0E 4787N	1097.07	3599.31	125.90	1.88	0.00	343.57
0E 4775N	1097.73	3601.49	125.83	1.89	0.00	343.64
0E 4762N	1098.36	3603.53	125.53	1.90	0.00	343.48
0E 4750N	1099.86	3608.48	125.21	1.90	0.00	343.45
0E 4737N	1103.13	3619.19	124.65	1.91	0.00	343.55
0E 4725N	1107.48	3633.46	123.79	1.92	0.00	343.55
0E 4712N	1107.52	3633.58	123.92	1.93	0.00	343.70
0E 4700N	1107.90	3634.85	123.89	1.93	0.00	343.74
0E 4687N	1108.74	3637.60	123.73	1.94	0.00	343.76
0E 4675N	1109.04	3638.59	123.64	1.95	0.00	343.74
0E 4662N	1109.84	3641.20	123.47	1.96	0.00	343.74
0E 4650N	1109.64	3640.56	123.44	1.96	0.00	343.67
0E 4637N	1109.55	3640.25	123.48	1.97	0.00	343.70
0E 4625N	1109.96	3641.59	123.43	1.98	0.00	343.74

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E	4612N	1110.51	3643.39	123.32	1.99	0.00	343.75
0E	4600N	1111.65	3647.14	123.09	1.99	0.00	343.74
0E	4587N	1113.73	3653.98	122.70	2.00	0.00	343.77
0E	4575N	1115.83	3660.86	122.20	2.01	0.00	343.69
0E	4562N	1121.50	3679.47	121.05	2.02	0.00	343.67
0E	4550N	1125.54	3692.73	120.27	2.02	0.00	343.68
0E	4537N	1131.06	3710.83	119.19	2.03	0.00	343.70
0E	4525N	1132.35	3715.07	118.95	2.04	0.00	343.72
0E	4512N	1127.79	3700.11	119.88	2.05	0.00	343.77
0E	4500N	1131.13	3711.07	119.28	2.05	0.00	343.82
0E	4487N	1135.54	3725.54	118.35	2.06	0.00	343.77
0E	4475N	1134.25	3721.29	118.62	2.07	0.00	343.80
0E	4462N	1132.51	3715.60	119.06	2.08	0.00	343.91
0E	4450N	1134.37	3721.70	118.69	2.08	0.00	343.90
0E	4437N	1136.21	3727.73	118.33	2.09	0.00	343.91
0E	4425N	1137.98	3733.52	117.93	2.10	0.00	343.87
0E	4412N	1140.26	3741.00	117.47	2.11	0.00	343.87
0E	4400N	1142.35	3747.87	117.06	2.11	0.00	343.87
0E	4387N	1145.04	3756.70	116.51	2.12	0.00	343.86
0E	4375N	1148.08	3766.67	115.86	2.13	0.00	343.82
0E	4362N	1150.79	3775.56	115.37	2.14	0.00	343.87
0E	4350N	1153.00	3782.82	114.85	2.14	0.00	343.79
0E	4337N	1156.57	3794.52	114.11	2.15	0.00	343.76
0E	4325N	1159.51	3804.18	113.57	2.16	0.00	343.81
0E	4312N	1163.70	3817.93	112.68	2.17	0.00	343.75
0E	4300N	1166.52	3827.15	112.19	2.17	0.00	343.81
0E	4287N	1170.08	3838.83	111.46	2.18	0.00	343.80
0E	4275N	1173.17	3848.97	110.89	2.19	0.00	343.84
0E	4262N	1175.94	3858.08	110.30	2.20	0.00	343.81
0E	4250N	1179.12	3868.49	109.76	2.20	0.00	343.89
0E	4237N	1182.37	3879.18	109.09	2.21	0.00	343.87
0E	4225N	1185.02	3887.85	108.61	2.22	0.00	343.92
0E	4212N	1187.96	3897.51	108.09	2.23	0.00	343.99
0E	4200N	1189.82	3903.61	107.75	2.23	0.00	344.02
0E	4187N	1191.91	3910.48	107.41	2.24	0.00	344.10
0E	4175N	1194.12	3917.73	106.95	2.25	0.00	344.08
0E	4162N	1197.09	3927.46	106.30	2.26	0.00	344.03
0E	4150N	1199.56	3935.58	105.89	2.26	0.00	344.10
0E	4137N	1201.51	3941.97	105.48	2.27	0.00	344.09
0E	4125N	1203.71	3949.18	105.13	2.28	0.00	344.18
0E	4112N	1205.45	3954.88	104.79	2.29	0.00	344.19
0E	4100N	1207.34	3961.09	104.39	2.29	0.00	344.16
0E	4087N	1208.96	3966.42	104.12	2.30	0.00	344.22
0E	4075N	1211.06	3973.31	103.68	2.31	0.00	344.21
0E	4062N	1211.96	3976.25	103.59	2.32	0.00	344.30
0E	4050N	1213.01	3979.68	103.43	2.32	0.00	344.35
0E	4037N	1213.55	3981.46	103.31	2.33	0.00	344.35
0E	4025N	1214.42	3984.32	103.15	2.34	0.00	344.37
0E	4012N	1214.98	3986.15	103.01	2.35	0.00	344.35
0E	4000N	1215.29	3987.17	103.03	2.35	0.00	344.43
0E	3975N	1216.72	3991.85	102.81	2.37	0.00	344.51

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 3950N	1218.14	3996.52	102.56	2.38	0.00	344.55
0E 3925N	1219.53	4001.09	102.38	2.40	0.00	344.66
0E 3900N	1220.02	4002.69	102.23	2.41	0.00	344.62
0E 3850N	1223.30	4013.45	101.59	2.45	0.00	344.66
0E 3800N	1224.64	4017.85	101.39	2.48	0.00	344.76
0E 3750N	1224.27	4016.62	101.53	2.51	0.00	344.85

<u>LINE 2000E</u>

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 5800N	1043.82	3425.16	137.46	1.64	0.00	344.42
0E 5750N	1046.26	3433.16	136.96	1.65	0.00	344.41
0E 5700N	1044.61	3427.21	137.13	1.65	0.00	344.26
0E 5650N	1048.68	3440.55	136.33	1.66	0.00	344.27
0E 5600N	1049.87	3444.47	135.99	1.66	0.00	344.16
0E 5550N	1056.59	3466.49	134.45	1.67	0.00	343.95
0E 5500N	1060.65	3479.82	133.56	1.68	0.00	343.87
0E 5475N	1060.85	3480.48	133.43	1.68	0.00	343.78
0E 5450N	1063.07	3487.75	132.97	1.69	0.00	343.77
0E 5425N	1063.82	3490.21	132.74	1.69	0.00	343.68
0E 5400N	1063.46	3489.03	132.82	1.70	0.00	343.70
0E 5375N	1068.07	3504.16	131.80	1.70	0.00	343.59
0E 5350N	1069.40	3508.52	131.48	1.71	0.00	343.54
0E 5325N	1073.54	3522.10	130.21	1.72	0.00	343.10
0E 5300N	1062.90	3487.20	132.20	1.72	0.00	342.99
0E 5290N	1058.70	3473.44	132.93	1.73	0.00	342.91
0E 5280N	1054.99	3461.25	133.60	1.73	0.00	342.85
0E 5270N	1052.15	3451.94	134.07	1.74	0.00	342.77
0E 5260N	1046.96	3434.91	135.01	1.75	0.00	342.70
0E 5250N	1041.23	3416.64	136.05	1.75	0.00	342.61
0E 5240N	1036.30	3399.93	136.93	1.76	0.00	342.53
0E 5230N	1034.27	3393.26	137.30	1.76	0.00	342.50
0E 5220N	1034.47	3393.94	137.24	1.77	0.00	342.49
0E 5210N	1035.10	3396.00	137.13	1.77	0.00	342.50
0E 5200N	1034.92	3395.42	137.14	1.78	0.00	342.49
0E 5190N	1035.31	3396.68	137.02	1.79	0.00	342.46
0E 5180N	1035.65	3397.81	136.95	1.79	0.00	342.45
0E 5170N	1036.05	3399.12	136.90	1.80	0.00	342.49
0E 5160N	1036.97	3402.13	136.79	1.80	0.00	342.56
0E 5150N	1037.48	3403.79	136.64	1.81	0.00	342.52
0E 5140N	1038.30	3406.50	136.50	1.82	0.00	342.55
0E 5130N	1037.96	3405.39	136.58	1.82	0.00	342.57
0E 5120N	1038.72	3407.88	136.45	1.83	0.00	342.60
0E 5110N	1039.16	3409.32	136.26	1.83	0.00	342.49
0E 5100N	1040.45	3413.55	136.06	1.84	0.00	342.56
0E 5090N	1043.14	3422.39	135.69	1.84	0.00	342.72
0E 5080N	1045.26	3429.33	135.32	1.85	0.00	342.77
0E 5070N	1045.94	3431.57	135.23	1.86	0.00	342.83
0E 5060N	1046.38	3433.02	135.14	1.86	0.00	342.82
0E 5050N	1047.74	3437.48	134.84	1.87	0.00	342.80
0E 5040N	1047.07	3435.28	134.87	1.87	0.00	342.70

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 5030N	1047.01	3435.06	134.95	1.88	0.00	342.78
0E 5020N	1047.22	3435.77	134.92	1.90	0.00	342.81
0E 5010N	1048.29	3439.27	134.74	1.90	0.00	342.84
0E 5000N	1048.90	3441.27	134.61	1.91	0.00	342.84
0E 4990N	1050.86	3447.72	134.28	1.91	0.00	342.89
0E 4980N	1053.05	3454.90	133.95	1.92	0.00	343.01
0E 4970N	1055.13	3461.72	133.67	1.92	0.00	343.13
0E 4960N	1056.90	3467.53	133.42	1.93	0.00	343.24
0E 4950N	1056.77	3467.10	133.42	1.94	0.00	343.23
0E 4940N	1057.52	3469.56	133.27	1.94	0.00	343.22
0E 4930N	1057.61	3469.85	133.26	1.95	0.00	343.24
0E 4920N	1059.58	3476.32	132.91	1.95	0.00	343.28
0E 4910N	1060.57	3479.57	132.71	1.96	0.00	343.28
0E 4900N	1060.93	3480.73	132.69	1.97	0.00	343.35
0E 4890N	1061.19	3481.61	132.65	1.97	0.00	343.36
0E 4880N	1061.12	3481.35	132.59	1.98	0.00	343.29
0E 4870N	1060.07	3477.91	132.82	1.98	0.00	343.32
0E 4860N	1060.88	3479.91	132.71	1.99	0.00	343.35
0E 4850N	1059.72	3476.77	132.89	1.99	0.00	343.33
0E 4840N	1060.41	3479.05	132.78	2.00	0.00	343.36
0E 4830N	1060.93	3480.75	132.70	2.01	0.00	343.40
0E 4820N	1061.01	3480.99	132.69	2.01	0.00	343.40
0E 4810N	1062.06	3484.44	132.61	2.02	0.00	343.54
0E 4800N	1062.22	3484.97	132.51	2.02	0.00	343.47
0E 4790N	1062.29	3485.22	132.50	2.03	0.00	343.48
0E 4780N	1061.23	3481.74	132.67	2.04	0.00	343.45
0E 4770N	1062.58	3486.17	132.49	2.04	0.00	343.54
0E 4760N	1062.56	3486.08	132.51	2.05	0.00	343.57
0E 4750N	1063.36	3488.71	132.42	2.05	0.00	343.63
0E 4740N	1064.45	3492.30	132.21	2.06	0.00	343.65
0E 4730N	1064.85	3493.60	132.16	2.06	0.00	343.68
0E 4720N	1065.40	3495.42	132.10	2.07	0.00	343.73
0E 4710N	1065.43	3495.50	132.13	2.08	0.00	343.78
0E 4700N	1065.46	3495.61	132.12	2.08	0.00	343.78
0E 4690N	1065.32	3495.15	132.22	2.09	0.00	343.86
0E 4680N	1065.21	3494.79	132.21	2.09	0.00	343.83
0E 4670N	1066.01	3497.40	132.06	2.10	0.00	343.84
0E 4660N	1065.78	3496.66	132.11	2.11	0.00	343.86
0E 4650N	1065.42	3495.48	132.18	2.11	0.00	343.86
0E 4640N	1064.94	3493.89	132.16	2.12	0.00	343.75
0E 4630N	1064.29	3491.75	132.22	2.12	0.00	343.69
0E 4620N	1063.81	3490.18	132.25	2.13	0.00	343.63
0E 4610N	1064.33	3491.91	132.17	2.13	0.00	343.65
0E 4600N	1065.15	3494.60	132.00	2.14	0.00	343.66
0E 4590N	1066.59	3499.31	131.73	2.15	0.00	343.68
0E 4580N	1067.30	3501.63	131.74	2.15	0.00	343.83
0E 4570N	1068.53	3505.68	131.50	2.16	0.00	343.84
0E 4560N	1069.50	3508.86	131.30	2.16	0.00	343.83
0E 4550N	1070.50	3512.15	131.07	2.17	0.00	343.81
0E 4540N	1071.16	3514.29	130.99	2.18	0.00	343.87
0E 4530N	1071.91	3516.75	130.86	2.18	0.00	343.89

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 4520N	1072.96	3520.20	130.79	2.19	0.00	344.03
0E 4510N	1074.59	3525.56	130.38	2.19	0.00	343.94
0E 4500N	1074.73	3526.03	130.40	2.20	0.00	344.00
0E 4490N	1075.79	3529.51	130.21	2.21	0.00	344.03
0E 4480N	1076.93	3533.25	130.00	2.21	0.00	344.04
0E 4470N	1078.03	3536.85	129.84	2.22	0.00	344.11
0E 4460N	1078.77	3539.26	129.69	2.22	0.00	344.10
0E 4450N	1080.15	3543.81	129.44	2.23	0.00	344.14
0E 4440N	1081.35	3547.73	129.25	2.23	0.00	344.18
0E 4430N	1082.36	3551.05	129.06	2.24	0.00	344.20
0E 4420N	1083.35	3554.30	128.88	2.25	0.00	344.23
0E 4410N	1083.89	3556.07	128.78	2.25	0.00	344.23
0E 4400N	1084.03	3556.54	128.72	2.26	0.00	344.21
0E 4390N	1085.06	3559.92	128.57	2.26	0.00	344.26
0E 4380N	1085.94	3562.78	128.33	2.27	0.00	344.20
0E 4370N	1086.88	3565.88	128.15	2.28	0.00	344.22
0E 4360N	1088.10	3569.87	127.84	2.28	0.00	344.15
0E 4350N	1088.99	3572.80	127.67	2.29	0.00	344.16
0E 4340N	1090.40	3577.43	127.36	2.29	0.00	344.13
0E 4330N	1091.21	3580.10	127.15	2.30	0.00	344.09
0E 4320N	1092.48	3584.24	126.90	2.30	0.00	344.09
0E 4310N	1095.03	3592.62	126.43	2.31	0.00	344.13
0E 4300N	1097.16	3599.61	126.15	2.32	0.00	344.28
0E 4290N	1100.01	3608.97	125.56	2.32	0.00	344.25
0E 4280N	1101.36	3613.37	125.43	2.33	0.00	344.40
0E 4270N	1102.38	3616.74	125.23	2.33	0.00	344.40
0E 4260N	1103.41	3620.11	125.08	2.34	0.00	344.46
0E 4250N	1104.87	3624.91	124.63	2.35	0.00	344.31
0E 4240N	1106.44	3630.04	124.39	2.35	0.00	344.38
0E 4230N	1107.95	3635.02	124.05	2.36	0.00	344.34
0E 4220N	1109.37	3639.66	123.69	2.36	0.00	344.26
0E 4210N	1111.86	3647.85	123.28	2.37	0.00	344.35
0E 4200N	1113.82	3654.27	122.89	2.37	0.00	344.35
0E 4190N	1115.56	3659.99	122.33	2.39	0.00	344.15
0E 4180N	1116.81	3664.07	122.13	2.40	0.00	344.21
0E 4170N	1118.33	3669.05	121.82	2.40	0.00	344.20
0E 4160N	1119.87	3674.12	121.45	2.41	0.00	344.14
0E 4150N	1121.71	3680.14	120.99	2.41	0.00	344.04
0E 4140N	1121.85	3680.60	120.97	2.42	0.00	344.06
0E 4130N	1121.81	3680.49	120.97	2.43	0.00	344.06
0E 4120N	1124.03	3687.76	120.37	2.43	0.00	343.90
0E 4110N	1125.95	3694.06	120.05	2.44	0.00	343.96
0E 4100N	1127.63	3699.57	119.75	2.44	0.00	344.00
0E 4090N	1128.82	3703.49	119.50	2.45	0.00	343.99
0E 4080N	1129.87	3706.92	119.23	2.45	0.00	343.93
0E 4070N	1131.11	3711.00	119.03	2.46	0.00	343.98
0E 4060N	1132.64	3716.02	118.80	2.47	0.00	344.06
0E 4050N	1133.64	3719.29	118.61	2.47	0.00	344.07
0E 4040N	1134.52	3722.17	118.53	2.48	0.00	344.17
0E 4030N	1135.27	3724.65	118.42	2.48	0.00	344.21
0E 4020N	1136.31	3728.06	118.28	2.49	0.00	344.28

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 4010N	1137.57	3732.19	118.04	2.50	0.00	344.30
0E 4000N	1138.55	3735.41	117.89	2.50	0.00	344.34
0E 3990N	1139.93	3739.92	117.66	2.51	0.00	344.39
0E 3980N	1140.22	3740.89	117.57	2.51	0.00	344.36
0E 3970N	1141.23	3744.20	117.32	2.52	0.00	344.32
0E 3960N	1142.51	3748.40	117.14	2.52	0.00	344.39
0E 3950N	1143.59	3751.92	117.00	2.53	0.00	344.47
0E 3940N	1144.28	3754.20	116.85	2.54	0.00	344.47
0E 3930N	1145.21	3757.24	116.65	2.54	0.00	344.45
0E 3920N	1146.21	3760.53	116.47	2.55	0.00	344.48
0E 3910N	1146.97	3763.02	116.37	2.55	0.00	344.53
0E 3900N	1147.57	3764.98	116.19	2.56	0.00	344.48
0E 3890N	1147.97	3766.29	116.16	2.57	0.00	344.54
0E 3880N	1148.32	3767.45	116.10	2.57	0.00	344.54
0E 3870N	1148.60	3768.37	115.95	2.58	0.00	344.46
0E 3860N	1149.00	3769.70	115.99	2.58	0.00	344.58
0E 3850N	1149.11	3770.05	115.99	2.59	0.00	344.61
0E 3825N	1147.61	3765.14	116.29	2.59	0.00	344.62
0E 3800N	1151.03	3776.33	115.78	2.60	0.00	344.79
0E 3775N	1154.01	3786.12	115.34	2.61	0.00	344.94
0E 3750N	1157.48	3797.52	114.68	2.61	0.00	344.97
0E 3700N	1166.10	3825.79	113.11	2.62	0.00	345.10
0E 3650N	1176.15	3858.77	111.15	2.62	0.00	345.12
0E 3600N	1184.54	3886.28	109.51	2.63	0.00	345.14

LINE 2400E

0 E 5300 N	1137.34	3731.42	119.44	1.87	0.00	345.03
0 E 5250 N	1149.97	3772.86	117.23	1.87	0.00	345.30
0 E 5200 N	1162.46	3813.85	114.90	1.89	0.00	345.45
0 E 5175 N	1168.96	3835.18	113.60	1.90	0.00	345.43
0 E 5150 N	1176.99	3861.52	112.58	1.91	0.00	346.00
0 E 5125 N	1177.59	3863.47	112.15	1.91	0.00	345.69
0 E 5100 N	1178.66	3867.01	112.00	1.93	0.00	345.77
0 E 5075 N	1180.17	3871.94	111.83	1.93	0.00	345.90
0 E 5050 N	1181.50	3876.30	111.70	1.95	0.00	346.05
0 E 5025 N	1182.39	3879.24	111.65	1.96	0.00	346.19
0 E 5000 N	1183.40	3882.54	111.64	1.97	0.00	346.39
0 E 4987 N	1183.34	3882.35	111.65	1.98	0.00	346.39
0 E 4975 N	1183.44	3882.69	111.63	1.99	0.00	346.40
0 E 4962 N	1183.61	3883.24	111.64	2.00	0.00	346.46
0 E 4650 N	1182.14	3878.42	111.70	2.01	0.00	346.24
0 E 4937 N	1183.02	3881.31	111.74	2.02	0.00	346.46
0 E 4925 N	1181.92	3877.71	111.92	2.03	0.00	346.43
0 E 4912 N	1181.36	3875.85	112.08	2.04	0.00	346.49
0 E 4900 N	1180.79	3873.98	112.21	2.05	0.00	346.52
0 E 4887 N	1180.46	3872.90	112.21	2.06	0.00	346.47
0 E 4875 N	1179.76	3870.62	112.35	2.07	0.00	346.48
0 E 4862 N	1179.62	3870.15	112.34	2.08	0.00	346.45
0 E 4850 N	1179.72	3870.46	112.49	2.09	0.00	346.63

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 4837 N	1179.15	3868.60	112.52	2.10	0.00	346.56
0 E 4825 N	1179.22	3868.84	112.58	2.11	0.00	346.64
0 E 4812 N	1179.08	3868.38	112.57	2.12	0.00	346.62
0 E 4800 N	1178.88	3867.70	112.58	2.13	0.00	346.60
0 E 4787 N	1178.62	3866.85	112.67	2.13	0.00	346.63
0 E 4775 N	1178.70	3867.11	112.80	2.15	0.00	346.80
0 E 4762 N	1178.63	3866.90	112.88	2.15	0.00	346.87
0 E 4750 N	1176.58	3860.18	113.15	2.17	0.00	346.75
0 E 4725 N	1174.15	3852.19	113.94	2.17	0.00	347.07
0 E 4712 N	1173.30	3849.42	114.12	2.19	0.00	347.10
0 E 4700 N	1173.86	3851.24	114.07	2.19	0.00	347.16
0 E 4687 N	1174.62	3853.73	113.85	2.21	0.00	347.11
0 E 4675 N	1178.04	3864.96	113.16	2.22	0.00	347.10
0 E 4662 N	1177.94	3864.64	113.20	2.23	0.00	347.13
0 E 4650 N	1176.33	3859.34	113.58	2.23	0.00	347.19
0 E 4637 N	1174.77	3854.22	113.84	2.25	0.00	347.17
0 E 4625 N	1173.01	3848.46	114.26	2.25	0.00	347.24
0 E 4612 N	1170.51	3840.26	114.73	2.27	0.00	347.24
0 E 4600 N	1168.27	3832.91	115.24	2.28	0.00	347.32
0 E 4587 N	1166.79	3828.05	115.56	2.29	0.00	347.36
0 E 4575 N	1165.32	3823.21	115.81	2.30	0.00	347.33
0 E 4562 N	1164.69	3821.15	115.89	2.31	0.00	347.29
0 E 4550 N	1163.21	3816.29	116.15	2.32	0.00	347.27
0 E 4537 N	1161.36	3810.25	116.45	2.33	0.00	347.22
0 E 4525 N	1160.56	3807.60	116.56	2.34	0.00	347.18
0 E 4512 N	1159.82	3805.18	116.68	2.35	0.00	347.17
0 E 4500 N	1158.25	3800.04	116.96	2.36	0.00	347.15
0 E 4487 N	1156.18	3793.23	117.34	2.37	0.00	347.13
0 E 4475 N	1154.93	3789.15	117.56	2.37	0.00	347.11
0 E 4462 N	1154.04	3786.23	117.65	2.39	0.00	347.04
0 E 4450 N	1152.62	3781.55	117.98	2.39	0.00	347.09
0 E 4437 N	1150.76	3775.47	118.35	2.41	0.00	347.11
0 E 4425 N	1150.06	3773.16	118.45	2.41	0.00	347.08
0 E 4412 N	1148.22	3767.12	118.79	2.43	0.00	347.08
0 E 4400 N	1146.22	3760.56	119.25	2.43	0.00	347.14
0 E 4387 N	1143.63	3752.07	119.83	2.45	0.00	347.23
0 E 4375 N	1143.16	3750.54	119.97	2.45	0.00	347.28
0 E 4362 N	1141.75	3745.91	120.27	2.47	0.00	347.32
0 E 4350 N	1139.36	3738.07	120.71	2.47	0.00	347.29
0 E 4337 N	1137.11	3730.66	121.17	2.49	0.00	347.33
0 E 4325 N	1134.79	3723.05	121.59	2.49	0.00	347.29
0 E 4312 N	1132.44	3715.36	122.01	2.50	0.00	347.26
0 E 4300 N	1131.03	3710.74	122.26	2.52	0.00	347.25
0 E 4287 N	1129.13	3704.49	122.62	2.52	0.00	347.24
0N 4250N	1124.34	3688.78	123.48	2.54	0.00	347.18
0N 4200N	1115.72	3660.51	125.01	2.54	0.00	347.01
0N 4175N	1110.84	3644.50	125.81	2.55	0.00	346.86
0N 4162N	1109.15	3638.93	126.12	2.56	0.00	346.85
0N 4150N	1108.13	3635.60	126.23	2.58	0.00	346.78
0N 4137N	1105.20	3625.97	126.66	2.58	0.00	346.63
0N 4125N	1102.59	3617.43	127.20	2.60	0.00	346.68

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
ON	4112N	1099.71	3607.97	127.75	2.60	0.00	346.66
ON	4100N	1098.91	3605.36	127.93	2.62	0.00	346.71
ON	4075N	1100.01	3608.94	127.85	2.62	0.00	346.84
ON	4050N	1100.32	3609.97	127.77	2.63	0.00	346.83
ON	4037N	1100.46	3610.44	127.80	2.64	0.00	346.90
ON	4025N	1101.63	3614.29	127.56	2.65	0.00	346.90
ON	4012N	1102.23	3616.23	127.46	2.66	0.00	346.93
ON	4000N	1102.06	3615.69	127.45	2.67	0.00	346.90
ON	3987N	1102.56	3617.31	127.36	2.68	0.00	346.91
ON	3975N	1103.20	3619.42	127.18	2.69	0.00	346.87
ON	3962N	1105.60	3627.30	126.73	2.70	0.00	346.90
ON	3950N	1107.26	3632.75	126.38	2.71	0.00	346.89
ON	3937N	1109.99	3641.69	125.89	2.72	0.00	346.95
ON	3925N	1112.22	3649.01	125.50	2.73	0.00	347.00
ON	3912N	1114.28	3655.76	125.09	2.74	0.00	347.01
ON	3900N	1116.57	3663.28	124.62	2.75	0.00	347.00
ON	3887N	1118.56	3669.82	124.30	2.76	0.00	347.08
ON	3875N	1120.00	3674.55	124.06	2.78	0.00	347.14
ON	3862N	1121.31	3678.84	123.80	2.78	0.00	347.14
ON	3850N	1123.95	3687.49	123.31	2.79	0.00	347.18
ON	3837N	1125.54	3692.73	122.91	2.80	0.00	347.10
ON	3825N	1127.47	3699.04	122.42	2.82	0.00	347.01
ON	3812N	1128.64	3702.89	122.30	2.82	0.00	347.12
ON	3800N	1129.92	3707.09	122.03	2.84	0.00	347.13
ON	3787N	1131.61	3712.62	121.53	2.84	0.00	346.96
ON	3775N	1132.59	3715.85	121.39	2.86	0.00	347.03
ON	3762N	1134.05	3720.63	121.01	2.86	0.00	346.94
ON	3750N	1136.13	3727.46	120.81	2.87	0.00	347.16
ON	3737N	1137.74	3732.75	120.33	2.88	0.00	347.00
ON	3725N	1139.47	3738.43	119.70	2.89	0.00	346.72
ON	3712N	1141.97	3746.63	119.25	2.90	0.00	346.78
ON	3700N	1144.16	3753.80	118.86	2.91	0.00	346.83
ON	3687N	1145.58	3758.45	118.60	2.92	0.00	346.86
ON	3675N	1147.44	3764.57	118.27	2.93	0.00	346.90
ON	3662N	1149.09	3769.97	117.91	2.94	0.00	346.88
ON	3650N	1150.86	3775.80	117.57	2.95	0.00	346.89
ON	3637N	1151.96	3779.40	117.34	2.96	0.00	346.89
ON	3625N	1152.83	3782.24	117.18	2.97	0.00	346.91
ON	3612N	1153.31	3783.82	117.08	2.98	0.00	346.92
ON	3600N	1154.62	3788.13	116.85	2.99	0.00	346.95
ON	3587N	1155.45	3790.84	116.69	3.00	0.00	346.97
ON	3575N	1157.60	3797.89	116.27	3.02	0.00	346.99
ON	3562N	1159.07	3802.72	115.98	3.02	0.00	346.99
ON	3550N	1161.82	3811.75	115.47	3.03	0.00	347.03
ON	3525N	1167.42	3830.11	114.42	3.04	0.00	347.09
ON	3500N	1172.83	3847.88	113.38	3.05	0.00	347.13
ON	3475N	1175.81	3857.63	112.96	3.06	0.00	347.30
ON	3450N	1175.64	3857.08	113.05	3.07	0.00	347.37
ON	3400N	1176.16	3858.78	113.10	3.08	0.00	347.53
ON	3350N	1184.64	3886.61	111.51	3.09	0.00	347.62
ON	3300N	1185.31	3888.81	111.35	3.10	0.00	347.60

LINE 2800E

2800 E 4950 N	1269.73	4165.79	92.06	2.24	0.00	344.06
2800 E 4925 N	1261.65	4139.26	94.42	2.25	0.00	344.84
2800 E 4900 N	1253.46	4112.41	96.60	2.26	0.00	345.42
2800 E 4875 N	1252.71	4109.95	96.85	2.26	0.00	345.52
2800 E 4850 N	1251.36	4105.53	97.31	2.27	0.00	345.72
2800E 4787N	1250.36	4102.23	97.61	2.29	0.00	345.85
2800E 4775N	1249.03	4097.86	97.93	2.30	0.00	345.91
2800E 4762N	1247.52	4092.93	98.22	2.30	0.00	345.91
2800E 4750N	1244.89	4084.28	98.82	2.31	0.00	346.00
2800E 4737N	1243.70	4080.38	99.04	2.32	0.00	346.00
2800E 4725N	1242.83	4077.52	99.27	2.33	0.00	346.07
2800E 4712N	1241.79	4074.10	99.48	2.34	0.00	346.08
2800E 4700N	1241.66	4073.68	99.54	2.34	0.00	346.11
2800E 4687N	1241.02	4071.59	99.69	2.36	0.00	346.16
2800E 4675N	1240.15	4068.74	99.89	2.37	0.00	346.20
2800E 4662N	1238.19	4062.32	100.29	2.38	0.00	346.22
2800E 4650N	1235.28	4052.76	100.87	2.39	0.00	346.24
2800E 4637N	1230.93	4038.49	101.83	2.39	0.00	346.34
2800E 4625N	1229.53	4033.89	102.16	2.40	0.00	346.41
2800E 4612N	1227.08	4025.85	102.56	2.41	0.00	346.34
2800E 4600N	1226.11	4022.66	102.83	2.42	0.00	346.43
2800E 4587N	1225.15	4019.52	103.09	2.42	0.00	346.50
2800E 4575N	1223.75	4014.92	103.50	2.44	0.00	346.65
2800E 4562N	1222.25	4009.99	103.78	2.45	0.00	346.65
0E 4550N	1220.34	4003.74	104.41	2.46	0.00	346.91
0E 4537N	1218.86	3998.90	104.68	2.47	0.00	346.90
0E 4525N	1217.26	3993.65	104.92	2.47	0.00	346.83
0E 4512N	1215.91	3989.20	105.32	2.48	0.00	346.97
0E 4500N	1213.77	3982.19	105.80	2.49	0.00	347.04
0E 4487N	1211.49	3974.71	106.34	2.50	0.00	347.14
0E 4475N	1208.58	3965.15	106.93	2.51	0.00	347.17
0E 4462N	1206.62	3958.74	107.40	2.52	0.00	347.26
0E 4450N	1205.83	3956.14	107.62	2.53	0.00	347.34
0E 4437N	1205.09	3953.72	107.88	2.54	0.00	347.46
0E 4425N	1204.54	3951.91	108.02	2.55	0.00	347.50
0E 4412N	1203.53	3948.58	108.16	2.55	0.00	347.44
0E 4400N	1202.73	3945.98	108.27	2.56	0.00	347.41
0E 4387N	1201.51	3941.96	108.63	2.57	0.00	347.54
0E 4375N	1199.62	3935.75	109.03	2.58	0.00	347.58
0E 4362N	1198.68	3932.67	109.08	2.59	0.00	347.45
0E 4350N	1198.38	3931.70	109.14	2.60	0.00	347.46
0E 4337N	1196.56	3925.72	109.50	2.61	0.00	347.47
0E 4325N	1195.57	3922.47	109.75	2.62	0.00	347.54
0 E 4312 N	1194.25	3918.15	109.93	2.63	0.00	347.47
0 E 4300 N	1194.01	3917.35	110.02	2.63	0.00	347.51
0 E 4287 N	1193.11	3914.40	110.24	2.64	0.00	347.57
0 E 4275 N	1193.04	3914.19	110.28	2.65	0.00	347.60
0 E 4262 N	1192.67	3912.96	110.42	2.67	0.00	347.69
0 E 4250 N	1192.45	3912.24	110.39	2.68	0.00	347.63
0 E 4237 N	1192.04	3910.89	110.53	2.68	0.00	347.68
0 E 4225 N	1192.51	3912.43	110.46	2.69	0.00	347.72
0 E 4212 N	1192.78	3913.31	110.38	2.70	0.00	347.70
0 E 4200 N	1193.00	3914.03	110.28	2.71	0.00	347.65

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 4187 N	1192.91	3913.74	110.30	2.71	0.00	347.66
0 E 4175 N	1192.53	3912.49	110.35	2.72	0.00	347.64
0 E 4162 N	1191.76	3909.96	110.53	2.73	0.00	347.68
0 E 4150 N	1190.39	3905.48	110.85	2.75	0.00	347.75
0 E 4137 N	1189.41	3902.27	111.06	2.76	0.00	347.78
0 E 4125 N	1188.07	3897.86	111.34	2.76	0.00	347.79
0 E 4112 N	1186.85	3893.85	111.45	2.77	0.00	347.67
0 E 4100 N	1185.90	3890.75	111.70	2.78	0.00	347.75
0 E 4087 N	1184.60	3886.48	112.02	2.79	0.00	347.82
0 E 4075 N	1183.52	3882.95	112.17	2.79	0.00	347.76
0 E 4062 N	1182.38	3879.19	112.33	2.80	0.00	347.70
0 E 4050 N	1180.05	3871.57	112.82	2.82	0.00	347.76
0 E 4037 N	1177.78	3864.10	113.29	2.83	0.00	347.79
0 E 4025 N	1176.03	3858.36	113.53	2.84	0.00	347.70
0 E 4012 N	1174.74	3854.13	113.77	2.84	0.00	347.68
0 E 4000 N	1172.42	3846.53	114.08	2.85	0.00	347.55
0 E 3987 N	1169.98	3838.53	114.60	2.86	0.00	347.60
0 E 3975 N	1168.22	3832.73	114.92	2.87	0.00	347.58
0 E 3962 N	1166.27	3826.35	115.25	2.87	0.00	347.53
0 E 3950 N	1164.22	3819.60	115.59	2.88	0.00	347.47
0 E 3937 N	1162.01	3812.37	116.00	2.90	0.00	347.47
0 E 3925 N	1158.99	3802.45	116.53	2.91	0.00	347.41
0 E 3912 N	1156.24	3793.45	117.01	2.92	0.00	347.36
0 E 3900 N	1153.33	3783.90	117.61	2.92	0.00	347.39
0 E 3887 N	1151.57	3778.12	117.91	2.93	0.00	347.35
0 E 3875 N	1148.99	3769.65	118.33	2.94	0.00	347.28
0 E 3862 N	1145.74	3759.00	118.82	2.95	0.00	347.14
0 E 3850 N	1142.38	3747.97	119.53	2.96	0.00	347.20
0 E 3837 N	1140.79	3742.76	119.78	2.97	0.00	347.14
0 E 3825 N	1139.60	3738.84	120.04	2.98	0.00	347.18
0 E 3812 N	1137.54	3732.09	120.38	2.99	0.00	347.12
0 E 3800 N	1134.80	3723.10	120.76	3.00	0.00	346.98
0 E 3787 N	1132.49	3715.51	121.29	3.00	0.00	347.05
0 E 3775 N	1131.07	3710.87	121.33	3.01	0.00	346.82
0 E 3762 N	1131.91	3713.63	121.21	3.02	0.00	346.88
0 E 3750 N	1130.67	3709.55	121.43	3.03	0.00	346.86
0 E 3737 N	1132.14	3714.39	121.29	3.04	0.00	347.02
0 E 3725 N	1133.09	3717.47	121.14	3.05	0.00	347.07
0 E 3712 N	1133.36	3718.38	121.05	3.06	0.00	347.04
0 E 3700 N	1133.66	3719.36	121.03	3.07	0.00	347.09
0 E 3687 N	1133.99	3720.42	120.99	3.08	0.00	347.13
0 E 3675 N	1134.22	3721.18	120.91	3.08	0.00	347.09
0 E 3662 N	1133.61	3719.21	120.99	3.09	0.00	347.06
0 E 3650 N	1132.48	3715.50	121.08	3.10	0.00	346.94
0 E 3637 N	1126.92	3697.25	122.14	3.11	0.00	346.92
0 E 3625 N	1123.96	3687.53	122.69	3.13	0.00	346.90
0 E 3612 N	1121.24	3678.60	123.25	3.13	0.00	346.93
0 E 3600 N	1120.94	3677.63	123.49	3.14	0.00	347.12
0 E 3587 N	1120.93	3677.58	123.57	3.15	0.00	347.21
0 E 3575 N	1121.35	3678.98	123.47	3.16	0.00	347.20
0 E 3562 N	1121.21	3678.52	123.46	3.16	0.00	347.16

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 3550 N	1121.36	3679.00	123.44	3.17	0.00	347.18
0 E 3537 N	1123.22	3685.12	123.16	3.18	0.00	347.28
0 E 3525 N	1126.27	3695.11	122.67	3.19	0.00	347.40
0 E 3512 N	1127.83	3700.23	122.40	3.21	0.00	347.45
0 E 3500 N	1130.24	3708.12	122.01	3.21	0.00	347.54
0 E 3487 N	1131.36	3711.80	121.80	3.22	0.00	347.56
0 E 3475 N	1132.88	3716.79	121.52	3.23	0.00	347.59
0 E 3462 N	1131.24	3711.43	121.82	3.24	0.00	347.58
0 E 3450 N	1128.23	3701.55	122.42	3.25	0.00	347.59
0 E 3425 N	1129.13	3704.50	122.28	3.25	0.00	347.63
0 E 3400 N	1130.34	3708.47	122.11	3.26	0.00	347.71
0 E 3375 N	1133.98	3720.41	121.43	3.28	0.00	347.76
0 E 3350 N	1138.31	3734.61	120.62	3.29	0.00	347.82
0 E 3300 N	1142.25	3747.54	119.88	3.29	0.00	347.85
0 E 3250 N	1145.27	3757.45	119.17	3.30	0.00	347.74
0 E 3200 N	1144.44	3754.73	119.29	3.31	0.00	347.71

LINE 3000E

3000 N 4830 N	1292.59	4240.78	88.00	2.39	0.00	344.41
3000 N 4820 N	1291.75	4238.04	88.33	2.40	0.00	344.82
3000 N 4810 N	1290.94	4235.36	88.67	2.40	0.00	345.00
3000 N 4800 N	1289.93	4232.04	88.85	2.41	0.00	344.99
3000 N 4790 N	1287.45	4223.91	89.55	2.41	0.00	345.20
3000 N 4780 N	1284.47	4214.13	90.36	2.42	0.00	345.44
3000 N 4770 N	1282.33	4207.11	90.94	2.42	0.00	345.59
3000 N 4760 N	1280.01	4199.49	91.57	2.43	0.00	345.78
3000 N 4750 N	1279.04	4196.33	91.83	2.43	0.00	345.85
3000 N 4745 N	1278.84	4195.66	91.89	2.43	0.00	345.87
3000 N 4740 N	1278.55	4194.73	91.95	2.43	0.00	345.87
3000 N 4735 N	1278.28	4193.83	92.04	2.44	0.00	345.92
3000 N 4730 N	1277.73	4192.01	92.18	2.44	0.00	345.95
3000 N 4725 N	1277.34	4190.74	92.24	2.45	0.00	345.94
3000 N 4720 N	1276.81	4188.99	92.40	2.46	0.00	346.01
3000 N 4715 N	1276.02	4186.40	92.55	2.46	0.00	346.00
3000 N 4710 N	1275.46	4184.57	92.68	2.47	0.00	346.03
3000 N 4705 N	1274.37	4181.00	92.92	2.47	0.00	346.06
3000 N 4700 N	1273.42	4177.90	93.19	2.48	0.00	346.15
3000 N 4695 N	1272.31	4174.26	93.44	2.48	0.00	346.18
3000 N 4690 N	1271.34	4171.07	93.66	2.49	0.00	346.22
3000 N 4685 N	1270.46	4168.19	93.85	2.49	0.00	346.24
3000 N 4680 N	1269.76	4165.87	94.04	2.50	0.00	346.30
3000 N 4675 N	1269.24	4164.19	94.17	2.50	0.00	346.33
3000 N 4670 N	1268.28	4161.04	94.38	2.51	0.00	346.36
3000 N 4660 N	1267.29	4157.77	94.64	2.51	0.00	346.43
3000 N 4650 N	1266.40	4154.87	94.78	2.51	0.00	346.39
3000 N 4640 N	1264.89	4149.90	95.17	2.51	0.00	346.48
3000 N 4630 N	1263.96	4146.85	95.38	2.52	0.00	346.52
3000 N 4620 N	1262.94	4143.49	95.65	2.53	0.00	346.60
3000 N 4610 N	1262.17	4140.99	95.79	2.53	0.00	346.59

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
3000 N 4600 N	1261.14	4137.60	96.08	2.54	0.00	346.69
3000 N 4590 N	1259.92	4133.61	96.38	2.54	0.00	346.75
3000 N 4580 N	1258.42	4128.66	96.67	2.55	0.00	346.75
3000 N 4570 N	1256.50	4122.39	97.09	2.55	0.00	346.79
3000 N 4560 N	1254.42	4115.55	97.51	2.56	0.00	346.81
3000 N 4550 N	1252.61	4109.60	97.94	2.56	0.00	346.89
3000 N 4540 N	1251.38	4105.57	98.19	2.57	0.00	346.91
3000 N 4530 N	1249.68	4100.00	98.55	2.57	0.00	346.93
3000 E 4525 N	1248.90	4097.44	98.75	2.58	0.00	346.99
3000 E 4515 N	1248.22	4095.21	98.88	2.58	0.00	346.99
3000 E 4505 N	1247.24	4092.00	99.08	2.59	0.00	347.00
3000 E 4495 N	1246.20	4088.57	99.25	2.60	0.00	346.98
3000 E 4485 N	1244.78	4083.91	99.61	2.60	0.00	347.06
3000 E 4475 N	1243.50	4079.73	99.85	2.60	0.00	347.05
3000 E 4465 N	1242.37	4076.02	100.05	2.60	0.00	347.02
3000 E 4455 N	1241.15	4072.01	100.38	2.61	0.00	347.12
3000 E 4445 N	1239.79	4067.55	100.64	2.61	0.00	347.12
3000 E 4440 N	1239.27	4065.85	100.78	2.62	0.00	347.16
3000 E 4435 N	1238.93	4064.72	100.85	2.62	0.00	347.17
3000 E 4430 N	1238.63	4063.74	100.83	2.63	0.00	347.10
3000 E 4425 N	1237.91	4061.38	100.95	2.63	0.00	347.08
3000 E 4420 N	1237.39	4059.67	101.14	2.64	0.00	347.17
3000 E 4415 N	1237.18	4058.98	101.18	2.64	0.00	347.17
3000 E 4410 N	1236.98	4058.33	101.23	2.65	0.00	347.19
3000 E 4405 N	1236.63	4057.18	101.35	2.65	0.00	347.25
3000 E 4400 N	1235.90	4054.79	101.48	2.66	0.00	347.24
3000 E 4395 N	1235.42	4053.21	101.59	2.67	0.00	347.27
3000 E 4390 N	1234.74	4051.00	101.68	2.67	0.00	347.22
3000 E 4385 N	1234.14	4049.03	101.84	2.68	0.00	347.28
3000 E 4375 N	1233.14	4045.74	102.09	2.68	0.00	347.33
3000 E 4365 N	1232.67	4044.20	102.17	2.68	0.00	347.32
3000 E 4355 N	1232.04	4042.13	102.38	2.68	0.00	347.40
3000 E 4345 N	1230.73	4037.84	102.71	2.69	0.00	347.48
3000 E 4335 N	1228.29	4029.82	103.17	2.69	0.00	347.47
3000 E 4325 N	1227.68	4027.81	103.39	2.70	0.00	347.58
3000 E 4315 N	1226.84	4025.07	103.54	2.70	0.00	347.56
3000 E 4305 N	1226.55	4024.10	103.59	2.71	0.00	347.56
3000 E 4295 N	1226.45	4023.79	103.63	2.71	0.00	347.58
3000 E 4285 N	1227.04	4025.72	103.59	2.72	0.00	347.67

<u>LINE 3200E</u>

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 4800N	1291.96	4238.72	87.98	2.48	0.00	344.59
0E 4750N	1277.13	4190.06	92.09	2.49	0.00	345.79
0E 4725N	1270.82	4169.35	93.87	2.49	0.00	346.33
0E 4700N	1268.40	4161.42	94.62	2.51	0.00	346.62
0E 4675N	1264.81	4149.63	95.55	2.52	0.00	346.86
0E 4650N	1262.40	4141.74	96.19	2.53	0.00	347.03
0E 4625N	1260.69	4136.12	96.67	2.53	0.00	347.18
0E 4600N	1259.92	4133.60	96.93	2.55	0.00	347.31

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E 4575N	1260.56	4135.68	96.89	2.56	0.00	347.40
0E 4550N	1260.20	4134.51	96.94	2.56	0.00	347.38
0E 4537N	1260.31	4134.89	96.90	2.57	0.00	347.37
0E 4525N	1261.44	4138.58	96.64	2.59	0.00	347.36
0E 4512N	1261.44	4139.00	96.61	2.59	0.00	347.33
0E 4500N	1261.00	4137.14	96.66	2.60	0.00	347.30
0E 4487N	1259.68	4132.82	96.96	2.61	0.00	347.35
0E 4475N	1258.89	4130.21	97.10	2.62	0.00	347.34
0E 4462N	1257.60	4125.99	97.32	2.63	0.00	347.32
0E 4450N	1256.00	4120.74	97.71	2.64	0.00	347.41
0E 4437N	1254.73	4116.58	97.90	2.65	0.00	347.36
0E 4425N	1253.12	4111.30	98.20	2.65	0.00	347.34
0E 4412N	1250.59	4103.00	98.85	2.67	0.00	347.51
0E 4400N	1247.17	4091.76	99.59	2.68	0.00	347.59
0E 4387N	1246.25	4088.75	99.83	2.68	0.00	347.65
0E 4375N	1248.27	4095.36	99.45	2.69	0.00	347.68
0E 4362N	1250.20	4101.70	99.02	2.71	0.00	347.64
0E 4350N	1252.46	4109.12	98.62	2.72	0.00	347.70
0E 4337N	1251.12	4104.74	98.87	2.72	0.00	347.69
0E 4325N	1250.96	4104.19	98.88	2.73	0.00	347.67
0E 4312N	1251.97	4107.51	98.66	2.74	0.00	347.66
0E 4300N	1254.62	4116.22	98.19	2.75	0.00	347.72
0E 4287N	1256.94	4123.82	97.77	2.76	0.00	347.77
0E 4275N	1258.52	4129.00	97.31	2.77	0.00	347.63
0E 4262N	1260.34	4134.96	96.96	2.78	0.00	347.65
0E 4250N	1262.28	4141.35	96.54	2.79	0.00	347.62
0E 4237N	1264.08	4147.24	96.06	2.80	0.00	347.50
0E 4225N	1265.71	4152.58	95.71	2.81	0.00	347.49
0E 4212N	1266.58	4155.44	95.57	2.81	0.00	347.52
0E 4200N	1266.96	4156.68	95.51	2.83	0.00	347.55
0E 4187N	1267.35	4157.98	95.44	2.84	0.00	347.57
0E 4175N	1267.21	4157.53	95.42	2.84	0.00	347.52
0E 4162N	1267.15	4157.32	95.44	2.85	0.00	347.54
0E 4150N	1266.68	4155.79	95.46	2.86	0.00	347.48
0E 4137N	1265.93	4153.32	95.67	2.88	0.00	347.56
0E 4125N	1264.62	4149.00	96.00	2.88	0.00	347.63
0E 4112N	1263.23	4144.47	96.30	2.89	0.00	347.67
0E 4100N	1261.02	4137.20	96.76	2.90	0.00	347.70
0E 4087N	1259.60	4132.56	96.98	2.91	0.00	347.65
0E 4075N	1257.71	4126.36	97.49	2.92	0.00	347.80
0E 4062N	1256.90	4123.70	97.58	2.93	0.00	347.74
0E 4050N	1255.75	4119.90	97.95	2.93	0.00	347.89
0E 4037N	1254.77	4116.71	98.12	2.95	0.00	347.88
0E 4025N	1253.77	4113.41	98.37	2.96	0.00	347.95
0E 4012N	1252.08	4107.87	98.68	2.97	0.00	347.93
0E 4000N	1250.82	4103.74	98.93	2.97	0.00	347.94
0E 3987N	1249.19	4098.40	99.24	2.99	0.00	347.95
0E 3975N	1247.31	4092.23	99.61	3.00	0.00	347.96
0E 3962N	1245.85	4087.45	99.94	3.00	0.00	348.00
0E 3950N	1244.30	4082.35	100.23	3.01	0.00	347.99
0E 3937N	1242.81	4077.45	100.55	3.02	0.00	348.03

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0E	3925N	1242.33	4075.90	100.67	3.04	0.00	348.08
0E	3912N	1241.02	4071.59	101.01	3.04	0.00	348.16
0E	3900N	1239.45	4066.45	101.28	3.05	0.00	348.13
0E	3887N	1238.62	4063.71	101.35	3.06	0.00	348.05
0E	3875N	1238.79	4064.26	101.31	3.07	0.00	348.05
0E	3862N	1238.05	4061.83	101.43	3.08	0.00	348.03
0E	3850N	1236.38	4056.35	101.79	3.09	0.00	348.08
0E	3837N	1235.13	4052.25	102.04	3.09	0.00	348.08
0E	3825N	1233.27	4046.15	102.42	3.11	0.00	348.11
0E	3812N	1231.58	4040.62	102.81	3.12	0.00	348.18
0E	3800N	1229.86	4034.96	103.09	3.13	0.00	348.13
0E	3787N	1228.16	4029.41	103.47	3.13	0.00	348.18
0E	3775N	1226.82	4025.01	103.71	3.14	0.00	348.17
0E	3762N	1225.27	4019.91	104.04	3.16	0.00	348.21
0E	3750N	1223.26	4013.31	104.39	3.16	0.00	348.17
0E	3737N	1223.51	4014.14	104.35	3.17	0.00	348.18
0E	3725N	1222.45	4010.66	104.58	3.18	0.00	348.22
0E	3712N	1220.69	4004.89	104.95	3.19	0.00	348.25
0E	3700N	1219.78	4001.89	105.11	3.20	0.00	348.24
0E	3687N	1218.39	3997.34	105.36	3.21	0.00	348.23
0E	3675N	1216.90	3992.46	105.58	3.22	0.00	348.16
0E	3662N	1214.67	3985.13	106.00	3.23	0.00	348.16
0E	3650N	1211.17	3973.65	106.67	3.24	0.00	348.15
0E	3637N	1207.72	3962.34	107.29	3.25	0.00	348.10
0E	3625N	1203.87	3949.72	107.96	3.25	0.00	348.01
0E	3612N	1200.13	3937.44	108.67	3.26	0.00	348.00
0E	3600N	1197.06	3927.36	109.19	3.28	0.00	347.93
0E	3587N	1192.50	3912.41	110.08	3.29	0.00	347.94
0E	3575N	1189.16	3901.43	110.69	3.29	0.00	347.89
0E	3562N	1183.96	3884.37	111.65	3.30	0.00	347.84
0E	3550N	1181.45	3876.14	112.15	3.32	0.00	347.86
0E	3537N	1180.64	3873.50	112.33	3.32	0.00	347.88
0E	3525N	1177.49	3863.16	112.86	3.33	0.00	347.80
0E	3512N	1176.01	3858.29	113.04	3.34	0.00	347.70
0E	3500N	1173.30	3849.41	113.66	3.35	0.00	347.80
0E	3487N	1171.20	3842.51	114.02	3.36	0.00	347.76
0E	3475N	1169.17	3835.85	114.40	3.37	0.00	347.75
0E	3462N	1167.91	3831.72	114.59	3.38	0.00	347.70
0E	3450N	1166.47	3827.00	114.82	3.38	0.00	347.64
0E	3437N	1165.53	3823.92	115.01	3.40	0.00	347.67
0E	3425N	1165.49	3823.78	115.08	3.41	0.00	347.74
0E	3412N	1164.80	3821.52	115.14	3.41	0.00	347.67
0E	3400N	1165.78	3824.75	114.99	3.42	0.00	347.72
0E	3375N	1166.93	3828.52	114.71	3.44	0.00	347.69
0E	3350N	1170.91	3841.57	113.98	3.44	0.00	347.74
0E	3325N	1174.30	3852.69	113.41	3.45	0.00	347.85
0E	3300N	1178.94	3867.90	112.44	3.46	0.00	347.80
0E	3250N	1186.17	3891.63	111.10	3.48	0.00	347.90
0E	3200N	1186.66	3893.25	111.22	3.48	0.00	348.12
0E	3150N	1188.95	3900.75	110.84	3.49	0.00	348.20

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 5150 N	1185.00	3887.80	112.83	2.42	0.00	348.34
0 E 5100 N	1188.39	3898.91	112.25	2.43	0.00	348.44
0 E 5050 N	1191.03	3907.59	111.11	2.44	0.00	347.83
0 E 5000 N	1198.38	3931.68	109.51	2.45	0.00	347.68
0 E 4950 N	1205.70	3955.70	108.04	2.46	0.00	347.66
0 E 4900 N	1210.36	3971.01	107.07	2.47	0.00	347.62
0 E 4850 N	1216.89	3992.43	105.85	2.48	0.00	347.69
0 E 4825 N	1218.81	3998.72	105.45	2.49	0.00	347.68
0 E 4800 N	1220.13	4003.04	105.19	2.51	0.00	347.70
0 E 4775 N	1225.72	4021.40	104.01	2.51	0.00	347.62
0 E 4750 N	1229.08	4032.40	103.46	2.53	0.00	347.75
0 E 4725 N	1229.80	4034.79	103.26	2.54	0.00	347.70
0 E 4700 N	1228.46	4030.38	103.69	2.54	0.00	347.87
0 E 4675 N	1226.67	4024.50	104.01	2.56	0.00	347.86
0 E 4650 N	1231.47	4040.25	103.01	2.57	0.00	347.81
0 E 4637 N	1234.31	4049.58	102.43	2.57	0.00	347.79
0 E 4625 N	1239.04	4065.10	101.66	2.59	0.00	347.97
0 E 4612 N	1240.21	4068.93	101.69	2.60	0.00	348.24
0 E 4600 N	1240.59	4070.19	101.43	2.61	0.00	348.06
0 E 4587 N	1242.83	4077.54	100.98	2.62	0.00	348.07
0 E 4575 N	1244.39	4082.63	100.64	2.63	0.00	348.04
0 E 4562 N	1246.36	4089.12	100.21	2.64	0.00	348.01
0 E 4550 N	1248.55	4096.30	99.72	2.65	0.00	347.96
0 E 4537 N	1250.69	4103.33	99.35	2.66	0.00	348.02
0 E 4525 N	1248.50	4096.13	99.88	2.67	0.00	348.13
0 E 4512 N	1250.83	4103.78	99.41	2.68	0.00	348.13
0 E 4500 N	1252.27	4108.50	99.09	2.69	0.00	348.10
0 E 4487 N	1256.05	4120.89	98.26	2.71	0.00	348.04
0 E 4475 N	1258.85	4130.07	97.70	2.71	0.00	348.03
0 E 4462 N	1263.13	4144.14	96.78	2.72	0.00	347.96
0 E 4450 N	1267.68	4159.07	95.90	2.74	0.00	347.99
0 E 4437 N	1272.81	4175.89	94.87	2.75	0.00	347.98
0 E 4425 N	1276.08	4186.62	94.29	2.75	0.00	348.05
0 E 4412 N	1275.04	4183.21	94.64	2.77	0.00	348.21
0 E 4400 N	1275.85	4185.86	94.49	2.78	0.00	348.23
0 E 4387 N	1277.69	4191.91	93.94	2.78	0.00	348.04
0 E 4375 N	1279.86	4199.01	93.63	2.80	0.00	348.18
0 E 4362 N	1281.84	4205.52	93.22	2.81	0.00	348.17
0 E 4350 N	1284.83	4215.33	92.61	2.81	0.00	348.15
0 E 4337 N	1286.89	4222.09	92.23	2.83	0.00	348.19
0 E 4325 N	1289.01	4229.02	91.68	2.84	0.00	348.07
0 E 4312 N	1290.87	4235.14	91.32	2.85	0.00	348.08
0 E 4300 N	1292.46	4240.37	91.10	2.86	0.00	348.19
0 E 4287 N	1294.28	4246.33	90.73	2.87	0.00	348.19
0 E 4275 N	1295.80	4251.31	90.47	2.89	0.00	348.24
0 E 4262 N	1297.20	4255.92	90.29	2.89	0.00	348.34
0 E 4250 N	1298.42	4259.92	90.08	2.90	0.00	348.38
0 E 4237 N	1299.82	4264.49	89.81	2.92	0.00	348.40
0 E 4225 N	1300.64	4267.18	89.66	2.92	0.00	348.42
0 E 4212 N	1301.44	4269.81	89.61	2.93	0.00	348.53
0 E 4200 N	1301.82	4271.07	89.47	2.95	0.00	348.49

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 4187 N	1302.44	4273.11	89.35	2.95	0.00	348.49
0 E 4175 N	1303.41	4276.27	89.18	2.96	0.00	348.52
0 E 4162 N	1304.40	4279.54	89.00	2.98	0.00	348.56
0 E 4150 N	1304.40	4279.54	88.97	2.99	0.00	348.54
0 E 4137 N	1304.79	4280.80	88.96	2.99	0.00	348.60
0 E 4125 N	1305.46	4283.02	88.84	3.01	0.00	348.63
0 E 4112 N	1306.07	4285.01	88.72	3.02	0.00	348.64
0 E 4100 N	1306.65	4286.91	88.56	3.02	0.00	348.60
0 E 4087 N	1306.85	4287.57	88.52	3.04	0.00	348.62
0 E 4075 N	1306.60	4286.73	88.59	3.05	0.00	348.65
0 E 4062 N	1306.28	4285.71	88.69	3.05	0.00	348.69
0 E 4050 N	1305.72	4283.85	88.83	3.07	0.00	348.74
0 E 4037 N	1304.91	4281.20	89.02	3.08	0.00	348.78
0 E 4025 N	1304.27	4279.10	89.13	3.09	0.00	348.77
0 E 4012 N	1304.27	4279.09	89.14	3.10	0.00	348.79
0 E 4000 N	1304.40	4279.53	89.03	3.11	0.00	348.72
0 E 3987 N	1304.65	4280.34	89.04	3.13	0.00	348.80
0 E 3975 N	1304.56	4280.05	89.07	3.13	0.00	348.81
0 E 3962 N	1304.34	4279.33	89.19	3.14	0.00	348.89
0 E 3950 N	1303.93	4277.97	89.24	3.16	0.00	348.88
0 E 3937 N	1303.81	4277.60	89.32	3.16	0.00	348.94
0 E 3925 N	1303.60	4276.90	89.31	3.17	0.00	348.90
0 E 3912 N	1303.23	4275.68	89.44	3.19	0.00	348.98
0 E 3900 N	1302.91	4274.63	89.48	3.19	0.00	348.95
0 E 3887 N	1302.58	4273.56	89.52	3.20	0.00	348.94
0 E 3875 N	1301.32	4269.41	89.79	3.22	0.00	348.98
0 E 3862 N	1300.02	4265.17	89.95	3.23	0.00	348.89
0 E 3850 N	1300.43	4266.50	89.82	3.23	0.00	348.84
0 E 3837 N	1299.71	4264.13	89.94	3.25	0.00	348.84
0 E 3825 N	1299.48	4263.40	89.96	3.26	0.00	348.83
0 E 3812 N	1299.51	4263.49	89.79	3.27	0.00	348.67
0 E 3800 N	1299.14	4262.28	89.95	3.28	0.00	348.77
0 E 3787 N	1299.39	4263.10	89.84	3.29	0.00	348.72
0 E 3775 N	1300.23	4265.84	89.60	3.30	0.00	348.66
0 E 3767 N	1301.77	4270.89	89.22	3.31	0.00	348.59
0 E 3750 N	1303.16	4275.45	88.93	3.32	0.00	348.58
0 E 3737 N	1304.59	4280.14	88.63	3.33	0.00	348.57
0 E 3725 N	1306.65	4286.90	88.09	3.34	0.00	348.45
0 E 3712 N	1306.30	4285.75	88.20	3.35	0.00	348.50
0 E 3700 N	1305.26	4282.34	88.38	3.37	0.00	348.50
0 E 3687 N	1303.13	4275.35	88.73	3.37	0.00	348.43
0 E 3675 N	1300.56	4266.94	89.35	3.38	0.00	348.55
0 E 3662 N	1297.65	4257.39	89.96	3.40	0.00	348.61
0 E 3650 N	1296.29	4252.93	90.22	3.40	0.00	348.60
0 E 3637 N	1294.60	4247.39	90.60	3.41	0.00	348.66
0 E 3625 N	1292.45	4240.32	91.03	3.43	0.00	348.69
0 E 3612 N	1289.56	4230.83	91.67	3.43	0.00	348.76
0 E 3600 N	1287.36	4223.61	92.12	3.45	0.00	348.79
0 E 3575 N	1280.99	4202.73	93.52	3.46	0.00	348.95
0 E 3550 N	1274.55	4181.61	94.86	3.47	0.00	349.03
0 E 3525 N	1270.99	4169.91	95.55	3.48	0.00	349.03

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
0 E 3500 N	1266.55	4155.34	96.35	3.49	0.00	348.97
0 E 3450 N	1256.57	4122.62	98.29	3.50	0.00	348.96
0 E 3400 N	1243.00	4078.09	101.00	3.51	0.00	349.01
0 E 3350 N	1220.43	4004.02	105.29	3.52	0.00	348.87
LINE ROAD						
ORO 3600AD	1271.89	4172.88	94.35	0.00	0.00	344.53
ORO 3550AD	1274.59	4181.74	93.70	0.00	0.00	344.41
ORO 3500AD	1275.32	4184.11	93.39	0.00	0.00	344.25
ORO 3450AD	1275.79	4185.67	93.49	0.00	0.00	344.44
ORO 3400AD	1274.07	4180.02	93.82	0.00	0.00	344.43
ORO 3350AD	1272.80	4175.84	93.95	0.00	0.00	344.31
ORO 3300AD	1267.55	4158.62	95.12	0.00	0.00	344.45
ORO 3250AD	1265.82	4152.96	95.73	0.00	0.00	344.72
ORO 3200AD	1266.96	4156.68	95.45	0.00	0.00	344.66
ORO 3150AD	1250.84	4103.79	98.73	0.00	0.00	344.77
ORO 3100AD	1242.93	4077.84	100.22	0.00	0.00	344.70
ORO 3050AD	1235.87	4054.69	101.65	0.00	0.00	344.75
ORO 3000AD	1228.29	4029.82	103.15	0.00	0.00	344.75
ORO 3001AD	1161.45	3810.53	103.24	0.00	0.00	331.70
ORO 2950AD	1223.88	4015.37	104.11	0.00	0.00	344.85
ORO 2900AD	1219.61	4001.34	104.85	0.00	0.00	344.75
ORO 2850AD	1217.88	3995.66	105.12	0.00	0.00	344.68
ORO 2800AD	1213.16	3980.18	106.11	0.00	0.00	344.74
ORO 2801AD	1195.48	3922.18	107.49	0.00	0.00	342.64
ORO 2750AD	1203.15	3947.35	108.19	0.00	0.00	344.85
ORO 2700AD	1200.04	3937.14	108.93	0.00	0.00	344.98
ORO 2650AD	1199.61	3935.73	108.99	0.00	0.00	344.95
ORO 2600AD	1197.29	3928.12	109.48	0.00	0.00	344.99
ORO 2550AD	1194.56	3919.15	109.96	0.00	0.00	344.93
ORO 2500AD	1192.05	3910.94	110.33	0.00	0.00	344.81
ORO 2450AD	1190.23	3904.97	110.62	0.00	0.00	344.74
ORO 2400AD	1188.04	3897.77	110.85	0.00	0.00	344.54
ORO 2401AD	1165.44	3823.62	113.15	0.00	0.00	342.39

EAST ZONE

LINE 5800N

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00N 7050E	1045.92	3431.48	147.00	3.32	0.00	346.60
00N 7100E	1044.28	3426.11	147.12	3.33	0.00	346.38
00N 7150E	1042.67	3420.82	147.60	3.34	0.00	346.51
00N 7200E	1044.48	3426.78	147.18	3.36	0.00	346.48
00N 7225E	1045.61	3430.48	146.96	3.36	0.00	346.50
00N 7250E	1045.64	3430.58	146.98	3.37	0.00	346.53
00N 7275E	1045.87	3431.33	146.99	3.38	0.00	346.58
00N 7300E	1047.98	3438.27	146.25	3.39	0.00	346.30
00N 7325E	1050.66	3447.06	145.64	3.40	0.00	346.27
00N 7350E	1050.93	3447.93	145.56	3.42	0.00	346.25
00N 7375E	1049.36	3442.78	145.91	3.42	0.00	346.27
00N 7400E	1048.37	3439.52	146.13	3.43	0.00	346.27
00N 7425E	1047.53	3436.77	146.30	3.44	0.00	346.26
00N 7450E	1046.57	3433.63	146.52	3.45	0.00	346.28
00N 7475E	1045.84	3431.24	146.62	3.46	0.00	346.23
00N 7500E	1043.82	3424.60	147.03	3.48	0.00	346.21
00N 7525E	1040.01	3412.09	147.79	3.48	0.00	346.16
00N 7550E	1035.73	3398.06	148.64	3.49	0.00	346.11
00N 7575E	1031.47	3384.09	149.61	3.50	0.00	346.17
00N 7600E	1028.22	3373.44	150.31	3.51	0.00	346.82
00N 7625E	1023.72	3358.67	151.33	3.53	0.00	346.23
00N 7650E	1021.13	3350.18	152.01	3.54	0.00	346.35
00N 7675E	1019.01	3343.20	152.52	3.55	0.00	346.41
00N 7700E	1018.98	3343.12	152.65	3.55	0.00	346.52
00N 7725E	1019.15	3343.66	152.73	3.56	0.00	346.63
00N 7750E	1018.27	3340.77	152.92	3.57	0.00	346.63
00N 7775E	1018.13	3340.33	153.01	3.59	0.00	346.69
00N 7800E	1017.43	3338.03	153.17	3.60	0.00	346.70
00N 7825E	1016.49	3334.93	153.39	3.61	0.00	346.72
00N 7850E	1016.00	3333.34	153.56	3.61	0.00	346.78
00N 7875E	1015.94	3333.15	153.65	3.62	0.00	346.86
00N 7900E	1016.53	3335.06	153.56	3.63	0.00	346.88
00N 7925E	1019.69	3345.43	152.92	3.65	0.00	346.91
00N 7950E	1022.19	3353.64	152.42	3.66	0.00	346.94
00N 7975E	1023.30	3357.27	152.21	3.67	0.00	346.97
00N 8000E	1025.29	3363.82	151.86	3.67	0.00	347.04
00N 8025E	1026.89	3369.07	151.64	3.68	0.00	347.15
00N 8050E	1028.08	3372.95	151.47	3.69	0.00	347.23
00N 8075E	1030.57	3381.14	150.99	3.71	0.00	347.28
00N 8100E	1032.18	3386.43	150.70	3.72	0.00	347.33
00N 8125E	1035.70	3397.97	149.92	3.73	0.00	347.30
00N 8150E	1035.34	3396.77	150.02	3.74	0.00	347.32
00N 8175E	1035.20	3396.31	150.06	3.74	0.00	347.33
00N 8200E	1034.88	3395.26	150.20	3.76	0.00	347.40
00N 8225E	1034.16	3392.90	150.31	3.77	0.00	347.35
00N 8250E	1032.01	3385.85	150.76	3.78	0.00	347.35
00N 8275E	1028.98	3375.92	151.42	3.79	0.00	347.36
00N 8300E	1026.57	3368.00	151.95	3.80	0.00	347.38

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00N 8325E	1025.38	3364.10	152.26	3.80	0.00	347.43
00N 8350E	1025.68	3365.09	152.28	3.82	0.00	347.51
00N 8375E	1024.35	3360.72	152.64	3.83	0.00	347.58
00N 8400E	1020.50	3348.10	153.65	3.84	0.00	347.77
00N 8425E	1020.05	3346.61	153.90	3.85	0.00	347.91
00N 8450E	1019.59	3345.11	154.12	3.86	0.00	348.02
00N 8475E	1019.63	3345.23	154.38	3.86	0.00	348.27
00N 8500E	1019.66	3345.35	154.37	3.88	0.00	348.27
00N 8550E	1036.30	3399.95	151.08	3.89	0.00	348.51
00N 8600E	1034.27	3393.28	151.72	3.90	0.00	348.71
<u>LINE 6200N</u>						
00N 7000E	1066.92	3500.38	142.67	3.07	0.00	345.42
00N 7050E	1062.55	3486.07	143.62	3.09	0.00	345.44
00N 7100E	1058.35	3472.28	144.49	3.09	0.00	345.42
00N 7150E	1062.81	3486.91	143.30	3.11	0.00	345.19
00N 7200E	1064.54	3492.57	142.75	3.11	0.00	345.02
00N 7225E	1064.69	3493.07	142.56	3.13	0.00	344.88
00N 7250E	1063.71	3489.87	142.64	3.13	0.00	344.75
00N 7275E	1061.03	3481.06	142.97	3.15	0.00	344.53
00N 7300E	1056.59	3466.50	143.77	3.15	0.00	344.39
00N 7325E	1049.24	3442.40	145.05	3.17	0.00	345.12
00N 7350E	1042.08	3418.90	146.43	3.18	0.00	345.40
00N 7375E	1034.96	3395.53	147.70	3.19	0.00	345.17
00N 7400E	1028.41	3374.06	148.95	3.20	0.00	345.04
00N 7425E	1021.60	3351.72	150.25	3.21	0.00	344.90
00N 7450E	1014.88	3329.67	151.62	3.22	0.00	344.85
00N 7475E	1012.95	3323.32	151.92	3.23	0.00	344.74
00N 7500E	1012.55	3322.01	152.13	3.24	0.00	344.85
00N 7525E	1012.49	3321.81	152.38	3.25	0.00	345.08
00N 7550E	1013.41	3324.83	152.30	3.26	0.00	345.18
00N 7575E	1017.61	3338.60	151.41	3.28	0.00	345.19
00N 7600E	1018.08	3340.17	151.42	3.28	0.00	345.29
00N 7625E	1019.43	3344.60	151.24	3.30	0.00	345.39
00N 7650E	1017.81	3339.27	151.67	3.30	0.00	345.47
00N 7675E	1015.40	3331.37	152.22	3.32	0.00	345.51
00N 7700E	1012.97	3323.40	152.78	3.32	0.00	345.54
00N 7725E	1006.98	3303.73	154.10	3.34	0.00	345.59
00N 7750E	1004.65	3296.08	154.82	3.34	0.00	345.80
00N 7775E	1002.70	3289.70	155.26	3.36	0.00	345.82
00N 7800E	1000.01	3280.88	155.87	3.37	0.00	345.86
00N 7825E	999.20	3278.23	156.04	3.38	0.00	345.86
00N 7850E	1000.54	3282.61	156.05	3.40	0.00	346.13
00N 7875E	1003.36	3291.87	155.47	3.40	0.00	346.16
00N 7900E	1006.25	3301.34	154.93	3.42	0.00	346.22
00N 7925E	1009.43	3311.78	154.29	3.42	0.00	346.26
00N 7950E	1005.80	3299.88	155.11	3.44	0.00	346.30
00N 7975E	1005.17	3297.81	155.41	3.44	0.00	346.46
00N 8000E	1008.92	3310.10	154.60	3.46	0.00	346.44

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00N	8025E	1011.82	3319.61	154.09	3.46	0.00	346.54
00N	8050E	1012.86	3323.03	153.96	3.48	0.00	346.63
00N	8075E	1014.68	3328.99	153.63	3.49	0.00	346.68
00N	8100E	1018.48	3341.48	152.88	3.50	0.00	346.74
00N	8125E	1017.07	3336.85	153.25	3.51	0.00	346.80
00N	8150E	1014.54	3328.55	153.83	3.52	0.00	346.85
00N	8175E	1011.61	3318.92	154.44	3.53	0.00	346.83
00N	8200E	1011.44	3318.37	154.48	3.54	0.00	346.84
00N	8225E	1015.60	3332.02	153.64	3.55	0.00	346.88
00N	8250E	1018.21	3340.57	153.13	3.56	0.00	346.92
00N	8275E	1020.36	3347.64	152.78	3.57	0.00	347.02
00N	8300E	1021.02	3349.80	152.69	3.59	0.00	347.07
00N	8325E	1022.97	3356.21	152.31	3.59	0.00	347.10
00N	8350E	1026.27	3367.03	151.67	3.61	0.00	347.16
00N	8375E	1023.58	3358.20	152.32	3.61	0.00	347.23
00N	8400E	1022.02	3353.08	152.72	3.63	0.00	347.60
00N	8450E	1025.09	3363.16	152.24	3.63	0.00	347.46
00N	8500E	1026.91	3369.13	152.03	3.65	0.00	347.63
00N	8550E	1023.89	3359.22	152.84	3.65	0.00	347.78
00N	8600E	1022.28	3353.95	153.34	3.67	0.00	347.93

LINE 6600N

0N	7000E	1031.19	3383.18	149.12	2.84	0.00	351.96
0N	7050E	1029.34	3377.10	149.35	2.85	0.00	351.82
0N	7100E	1031.36	3383.72	148.72	2.86	0.00	351.59
0N	7150E	1028.65	3374.82	149.11	2.87	0.00	351.45
0N	7175E	1025.80	3365.48	149.67	2.87	0.00	351.45
0N	7200E	1023.09	3356.61	150.21	2.89	0.00	351.45
0N	7225E	1020.27	3347.34	150.70	2.90	0.00	351.39
0N	7250E	1016.05	3333.49	151.48	2.90	0.00	351.34
0N	7275E	1010.46	3315.15	152.37	2.91	0.00	351.13
0N	7300E	1007.17	3304.36	152.91	2.92	0.00	351.02
0N	7325E	1000.92	3283.87	153.96	2.93	0.00	350.84
0N	7350E	995.55	3266.25	154.98	2.94	0.00	350.80
0N	7375E	991.85	3254.09	155.59	2.95	0.00	350.69
0N	7400E	989.12	3245.14	156.14	2.96	0.00	350.70
0N	7425E	985.59	3233.57	156.77	2.96	0.00	350.64
0N	7450E	986.45	3236.39	156.61	2.98	0.00	350.65
0N	7475E	989.94	3247.85	155.76	2.99	0.00	350.48
0N	7500E	991.34	3252.44	155.50	2.99	0.00	350.50
0N	7525E	989.01	3244.78	155.91	3.01	0.00	350.45
0N	7550E	984.15	3228.83	156.95	3.01	0.00	350.53
0N	7562E	978.71	3210.98	158.10	3.02	0.00	350.61
0N	7575E	974.19	3196.15	158.99	3.04	0.00	350.61
0N	7587E	974.24	3196.32	159.01	3.04	0.00	350.64
0N	7600E	975.10	3199.15	158.86	3.05	0.00	350.66
0N	7612E	974.02	3195.59	159.05	3.05	0.00	350.64
0N	7625E	971.39	3186.97	159.46	3.07	0.00	350.53

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
ON	7637E	967.21	3173.26	160.17	3.08	0.00	350.42
ON	7650E	967.05	3172.73	160.31	3.08	0.00	350.53
ON	7662E	968.10	3176.17	160.19	3.10	0.00	350.62
ON	7675E	967.82	3175.27	160.30	3.10	0.00	350.67
ON	7687E	970.12	3182.81	159.98	3.11	0.00	350.80
ON	7700E	971.66	3187.86	159.74	3.13	0.00	350.87
ON	7712E	973.26	3193.12	159.50	3.13	0.00	350.94
ON	7725E	975.11	3199.19	159.23	3.14	0.00	351.03
ON	7737E	978.63	3210.72	158.59	3.15	0.00	351.09
ON	7750E	983.07	3225.30	157.84	3.16	0.00	351.21
ON	7762E	985.92	3234.65	157.42	3.17	0.00	351.35
ON	7775E	987.05	3238.35	157.32	3.18	0.00	351.47
ON	7787E	987.66	3240.37	157.30	3.19	0.00	351.57
ON	7800E	990.60	3250.00	156.91	3.19	0.00	351.76
ON	7825E	993.33	3258.95	156.64	3.20	0.00	352.03
ON	7850E	997.82	3273.70	156.02	3.21	0.00	352.29
ON	7875E	1000.85	3283.64	155.66	3.22	0.00	352.53
ON	7900E	1003.98	3293.90	155.22	3.23	0.00	352.70
ON	7925E	1005.77	3299.77	154.95	3.24	0.00	352.79
ON	7950E	1007.14	3304.28	154.81	3.25	0.00	352.91
ON	7975E	1006.61	3302.53	154.94	3.25	0.00	352.94
ON	8000E	1005.70	3299.55	155.21	3.27	0.00	353.03
ON	8025E	1005.45	3298.71	155.33	3.28	0.00	353.10
ON	8050E	1004.62	3296.01	155.65	3.28	0.00	353.26
ON	8075E	1003.31	3291.70	155.99	3.30	0.00	353.34
ON	8100E	999.71	3279.90	156.82	3.30	0.00	353.46
ON	8125E	995.34	3265.55	157.70	3.31	0.00	353.48
ON	8150E	991.61	3253.32	158.47	3.33	0.00	353.52
ON	8175E	991.90	3254.27	158.55	3.33	0.00	353.66
ON	8200E	992.48	3256.18	158.59	3.34	0.00	353.81
ON	8225E	994.10	3261.47	158.38	3.34	0.00	353.92
ON	8250E	997.74	3273.42	157.76	3.36	0.00	354.02
ON	8275E	998.28	3275.20	157.72	3.37	0.00	354.08
ON	8300E	997.34	3272.10	157.93	3.37	0.00	354.11
ON	8325E	996.61	3269.72	158.02	3.39	0.00	354.05
ON	8350E	997.32	3272.04	157.78	3.39	0.00	353.95
ON	8375E	998.44	3275.72	157.48	3.40	0.00	353.87
ON	8400E	998.55	3276.08	157.44	3.42	0.00	353.86
ON	8425E	998.26	3275.12	157.50	3.42	0.00	353.86
ON	8450E	997.31	3272.00	157.75	3.43	0.00	353.92
ON	8475E	995.12	3264.82	158.20	3.44	0.00	353.94
ON	8500E	994.23	3261.91	158.41	3.45	0.00	353.98
ON	8525E	995.09	3264.73	158.23	3.46	0.00	353.96
ON	8550E	994.03	3261.25	158.47	3.47	0.00	354.00
ON	8575E	991.32	3252.37	158.96	3.48	0.00	353.95
ON	8600E	996.94	3270.80	157.94	3.48	0.00	354.04
ON	8625E	1001.40	3285.42	157.14	3.49	0.00	354.12
ON	8650E	1005.63	3299.31	156.43	3.51	0.00	354.24
ON	8700E	1010.14	3314.10	155.80	3.51	0.00	354.49
ON	8750E	1010.45	3315.14	156.02	3.52	0.00	354.78
ON	8800E	1013.08	3323.76	155.67	3.53	0.00	354.94
ON	8850E	1011.57	3318.80	156.16	3.54	0.00	355.14

LINE 7800E

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E	6600N	990.60	3250.00	156.91	3.15	0.00	344.96
00E	6550N	980.97	3218.39	158.76	3.18	0.00	344.76
00E	6500N	984.76	3230.83	158.23	3.21	0.00	345.03
00E	6450N	993.41	3259.23	156.76	3.24	0.00	345.38
00E	6400N	1003.81	3293.33	154.92	3.26	0.00	345.72
00E	6350N	1005.57	3299.13	154.64	3.30	0.00	345.82
00E	6300N	1002.62	3289.44	155.30	3.32	0.00	345.85
00E	6250N	1001.21	3284.80	155.62	3.35	0.00	345.86
00E	6200N	1000.01	3280.88	155.86	3.38	0.00	345.85
00E	6150N	1004.11	3294.33	155.21	3.41	0.00	346.05
00E	6100N	1010.03	3313.75	154.20	3.44	0.00	346.30
00E	6050N	1021.60	3351.70	151.75	3.46	0.00	346.31
00E	6000N	1022.95	3356.14	151.65	3.50	0.00	346.48
00E	5950N	1019.36	3344.35	152.54	3.52	0.00	346.60
00E	5900N	1018.32	3340.96	152.85	3.55	0.00	346.68
00E	5850N	1019.36	3344.35	152.73	3.58	0.00	346.78
00E	5800N	1017.43	3338.03	153.17	3.61	0.00	346.80

SOUTH ZONE

LINE 6200E

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E 3000N	1249.41	4099.13	82.08	4.63	0.00	320.30
00E 2987N	1246.42	4089.30	82.61	4.64	0.00	320.22
00E 2975N	1244.88	4084.25	83.10	4.64	0.00	320.37
00E 2962N	1243.64	4080.18	83.39	4.66	0.00	320.40
00E 2950N	1241.89	4074.45	83.74	4.66	0.00	320.39
00E 2937N	1239.60	4066.93	84.28	4.67	0.00	320.44
00E 2925N	1237.32	4059.45	84.80	4.67	0.00	320.49
00E 2912N	1235.22	4052.55	85.42	4.68	0.00	320.65
00E 2900N	1233.19	4045.91	85.82	4.68	0.00	320.62
00E 2887N	1230.29	4036.37	86.21	4.70	0.00	320.42
00E 2875N	1228.37	4030.09	86.62	4.71	0.00	320.43
00E 2862N	1226.99	4025.57	86.93	4.71	0.00	320.44
00E 2850N	1225.47	4020.58	87.24	4.72	0.00	320.41
00E 2837N	1224.42	4017.14	87.32	4.72	0.00	320.31
00E 2825N	1220.89	4005.56	88.16	4.73	0.00	320.39
00E 2812N	1218.49	3997.66	88.62	4.74	0.00	320.36
00E 2800N	1216.16	3990.02	89.11	4.75	0.00	320.36
00E 2787N	1213.10	3979.98	89.70	4.75	0.00	320.31
00E 2775N	1209.53	3968.27	90.50	4.76	0.00	320.36
00E 2762N	1207.25	3960.79	90.99	4.76	0.00	320.37
00E 2750N	1205.60	3955.38	91.33	4.78	0.00	320.37
00E 2737N	1203.92	3949.88	91.66	4.79	0.00	320.35
00E 2725N	1202.53	3945.32	91.99	4.79	0.00	320.38
00E 2712N	1201.51	3941.95	92.18	4.80	0.00	320.35
00E 2700N	1200.20	3937.65	92.44	4.80	0.00	320.34
00E 2687N	1199.03	3933.83	92.72	4.81	0.00	320.37
00E 2675N	1198.17	3930.99	92.85	4.82	0.00	320.33
00E 2662N	1196.26	3924.73	93.23	4.83	0.00	320.32
00E 2650N	1195.09	3920.90	93.44	4.83	0.00	320.28
00E 2637N	1192.46	3912.27	94.02	4.84	0.00	320.31
00E 2625N	1191.43	3908.88	94.25	4.85	0.00	320.32
00E 2612N	1189.98	3904.12	94.48	4.85	0.00	320.25
00E 2600N	1188.87	3900.49	94.75	4.87	0.00	320.29
00E 2587N	1186.47	3892.62	95.35	4.87	0.00	320.37
00E 2575N	1184.89	3887.43	95.56	4.88	0.00	320.26
00E 2562N	1183.55	3883.04	95.80	4.88	0.00	320.22
00E 2550N	1180.00	3871.40	96.54	4.89	0.00	320.21
00E 2537N	1178.87	3867.69	96.76	4.90	0.00	320.20
00E 2525N	1178.15	3865.32	96.89	4.91	0.00	320.18
00E 2512N	1177.82	3864.23	96.92	4.92	0.00	320.14
00E 2500N	1176.79	3860.86	97.10	4.92	0.00	320.12
00E 2487N	1175.56	3856.83	97.26	4.93	0.00	320.03
00E 2475N	1172.78	3847.72	97.83	4.93	0.00	321.44
00E 2462N	1170.67	3840.77	98.30	4.95	0.00	321.46
00E 2450N	1170.15	3839.07	98.34	4.95	0.00	321.40
00E 2437N	1170.03	3838.69	98.25	4.96	0.00	321.29
00E 2425N	1167.44	3830.19	98.64	4.96	0.00	321.15
00E 2412N	1163.34	3816.74	99.47	4.97	0.00	321.12

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E	2400N	1158.73	3801.62	100.28	4.99	0.00	322.23
00E	2387N	1151.26	3777.10	101.64	4.99	0.00	322.05
00E	2375N	1145.71	3758.90	102.62	5.00	0.00	321.87
00E	2362N	1140.94	3743.24	103.50	5.00	0.00	320.56
00E	2350N	1136.55	3728.85	104.22	5.01	0.00	321.57
00E	2337N	1133.05	3717.35	104.90	5.01	0.00	321.52
00E	2325N	1133.05	3717.36	104.96	5.03	0.00	321.57
00E	2312N	1135.36	3724.95	104.69	5.03	0.00	321.78
00E	2300N	1136.92	3730.05	104.49	5.04	0.00	321.89
00E	2287N	1139.74	3739.30	104.19	5.04	0.00	322.17
00E	2275N	1141.97	3746.62	103.50	5.05	0.00	321.97
00E	2262N	1144.64	3755.39	103.06	5.06	0.00	322.08
00E	2250N	1147.16	3763.66	102.65	5.07	0.00	322.19
00E	2237N	1150.60	3774.95	102.03	5.08	0.00	322.28
00E	2225N	1152.86	3782.36	101.65	5.08	0.00	322.38
00E	2212N	1155.84	3792.12	101.14	5.09	0.00	322.47
00E	2200N	1157.83	3798.65	100.78	5.09	0.00	322.53
00E	2187N	1162.19	3812.96	99.97	5.11	0.00	322.62
00E	2175N	1164.40	3820.22	99.52	5.11	0.00	322.64
00E	2162N	1168.74	3834.44	98.81	5.12	0.00	322.83
00E	2150N	1171.99	3845.11	98.16	5.13	0.00	322.86
00E	2137N	1173.91	3851.40	98.01	5.13	0.00	323.10
00E	2125N	1174.42	3853.10	97.82	5.14	0.00	323.02
00E	2112N	1176.19	3858.90	97.35	5.15	0.00	322.93
00E	2100N	1179.26	3868.96	96.77	5.16	0.00	322.98
00E	2087N	1180.48	3872.98	96.66	5.16	0.00	323.12
00E	2075N	1182.86	3880.78	96.12	5.17	0.00	323.08
00E	2062N	1185.28	3888.71	95.61	5.17	0.00	323.07
00E	2050N	1188.09	3897.92	95.11	5.18	0.00	323.67
00E	2037N	1191.09	3907.77	94.53	5.20	0.00	323.21
00E	2025N	1192.45	3912.24	94.29	5.20	0.00	323.26
00E	2012N	1194.03	3917.43	94.12	5.21	0.00	323.41
00E	2000N	1195.66	3922.78	93.73	5.21	0.00	323.36
00E	1987N	1198.50	3932.08	93.23	5.22	0.00	323.45
00E	1975N	1200.14	3937.46	92.96	5.23	0.00	323.52
00E	1962N	1202.91	3946.55	92.38	5.24	0.00	326.51
00E	1950N	1204.84	3952.89	92.06	5.24	0.00	323.43
00E	1937N	1206.45	3958.16	91.74	5.25	0.00	323.61
00E	1925N	1208.10	3963.59	91.43	5.25	0.00	323.64
00E	1912N	1209.72	3968.91	91.12	5.26	0.00	323.67
00E	1900N	1211.40	3974.40	90.76	5.28	0.00	323.67
00E	1887N	1213.38	3980.91	90.40	5.28	0.00	323.72
00E	1875N	1215.52	3987.93	89.97	5.29	0.00	323.74
00E	1862N	1217.76	3995.27	89.50	5.29	0.00	323.74
00E	1850N	1220.37	4003.83	88.96	5.30	0.00	323.75
00E	1837N	1222.06	4009.37	88.66	5.30	0.00	323.80
00E	1825N	1222.98	4012.39	88.53	5.32	0.00	323.86
00E	1812N	1224.19	4016.38	88.30	5.32	0.00	323.87
00E	1800N	1225.63	4021.11	87.99	5.33	0.00	323.86

LINE 6600E

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E 3000N	1223.10	4012.81	87.47	4.78	0.00	322.54
00E 2987N	1221.97	4009.09	87.74	4.79	0.00	322.57
00E 2975N	1219.96	4002.49	88.16	4.79	0.00	322.58
00E 2962N	1217.44	3994.21	88.75	4.80	0.00	322.64
00E 2950N	1214.94	3986.03	89.26	4.81	0.00	322.62
00E 2937N	1212.26	3977.22	89.80	4.82	0.00	322.60
00E 2925N	1210.04	3969.96	90.28	4.82	0.00	322.62
00E 2912N	1208.17	3963.82	90.71	4.83	0.00	323.34
00E 2900N	1205.69	3955.67	91.23	4.84	0.00	322.65
00E 2887N	1203.93	3949.90	91.63	4.84	0.00	322.67
00E 2875N	1201.89	3943.22	92.05	4.85	0.00	322.67
00E 2862N	1199.55	3935.53	92.56	4.86	0.00	322.68
00E 2850N	1196.97	3927.07	93.08	4.86	0.00	322.67
00E 2837N	1195.37	3921.82	93.36	4.87	0.00	322.62
00E 2825N	1193.50	3915.69	93.70	4.88	0.00	322.57
00E 2812N	1191.35	3908.63	94.17	4.89	0.00	322.59
00E 2800N	1188.92	3900.66	94.66	4.89	0.00	322.57
00E 2787N	1188.04	3897.76	94.90	4.90	0.00	322.62
00E 2775N	1187.03	3894.45	95.11	4.91	0.00	322.62
00E 2762N	1185.06	3888.00	95.57	4.91	0.00	322.66
00E 2750N	1184.05	3884.68	95.79	4.92	0.00	322.67
00E 2737N	1182.20	3878.60	96.18	4.93	0.00	322.67
00E 2725N	1180.90	3874.34	96.46	4.94	0.00	322.67
00E 2712N	1177.19	3862.16	97.26	4.94	0.00	322.70
00E 2700N	1172.66	3847.32	98.17	4.96	0.00	322.66
00E 2687N	1170.78	3841.14	98.57	4.97	0.00	322.67
00E 2675N	1170.05	3838.74	98.79	4.97	0.00	322.73
00E 2662N	1169.18	3835.88	98.99	4.98	0.00	322.75
00E 2650N	1168.35	3833.16	99.19	4.99	0.00	322.77
00E 2637N	1167.06	3828.93	99.50	5.00	0.00	322.81
00E 2625N	1166.83	3828.18	99.58	5.00	0.00	322.84
00E 2612N	1166.28	3826.39	99.71	5.01	0.00	322.85
00E 2600N	1164.63	3820.97	100.04	5.02	0.00	322.83
00E 2587N	1162.82	3815.04	100.37	5.02	0.00	322.79
00E 2575N	1161.47	3810.60	100.60	5.03	0.00	322.74
00E 2562N	1159.60	3804.46	100.96	5.04	0.00	322.70
00E 2550N	1157.63	3797.99	101.26	5.05	0.00	322.60
00E 2537N	1155.84	3792.12	101.62	5.05	0.00	322.59
00E 2525N	1153.26	3783.65	102.13	5.06	0.00	322.57
00E 2512N	1152.29	3780.48	102.35	5.07	0.00	322.58
00E 2500N	1149.61	3771.68	102.78	5.07	0.00	322.46
00E 2487N	1146.74	3762.26	103.32	5.08	0.00	322.39
00E 2475N	1144.92	3756.30	103.67	5.09	0.00	322.37
00E 2462N	1143.16	3750.54	103.97	5.09	0.00	322.30
00E 2450N	1139.43	3738.30	104.61	5.10	0.00	322.17
00E 2437N	1136.17	3727.58	105.19	5.11	0.00	322.06
00E 2425N	1132.53	3715.66	105.86	5.12	0.00	321.99
00E 2412N	1129.04	3704.20	106.56	5.12	0.00	321.95
00E 2400N	1125.87	3693.81	107.10	5.13	0.00	321.84

	STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E	2387N	1123.77	3686.91	107.47	5.14	0.00	321.78
00E	2375N	1121.26	3678.68	107.82	5.14	0.00	320.20
00E	2362N	1116.22	3662.13	108.75	5.15	0.00	321.48
00E	2350N	1111.17	3645.58	109.60	5.16	0.00	321.29
00E	2337N	1108.19	3635.79	110.04	5.17	0.00	321.11
00E	2325N	1103.83	3621.50	110.76	5.17	0.00	320.93
00E	2312N	1101.92	3615.21	111.03	5.18	0.00	320.82
00E	2300N	1103.88	3621.67	110.64	5.19	0.00	320.83
00E	2287N	1107.30	3632.89	110.03	5.19	0.00	320.93
00E	2275N	1110.55	3643.53	109.41	5.20	0.00	320.99
00E	2262N	1114.60	3656.84	108.63	5.21	0.00	321.05
00E	2250N	1119.00	3671.25	107.86	5.22	0.00	321.20
00E	2237N	1122.39	3682.39	107.24	5.22	0.00	321.28
00E	2225N	1126.73	3696.63	106.47	5.23	0.00	321.42
00E	2212N	1131.51	3712.31	105.60	5.24	0.00	321.54
00E	2200N	1139.24	3737.65	104.32	5.24	0.00	321.86
00E	2187N	1141.94	3746.53	103.93	5.25	0.00	322.02
00E	2175N	1144.15	3753.78	103.50	5.26	0.00	322.06
00E	2162N	1146.07	3760.08	103.23	5.26	0.00	322.18
00E	2150N	1147.94	3766.20	102.87	5.27	0.00	322.21
00E	2137N	1150.11	3773.32	102.52	5.28	0.00	322.31
00E	2125N	1153.19	3783.44	101.96	5.29	0.00	322.39
00E	2112N	1155.87	3792.22	101.32	5.29	0.00	322.31
00E	2100N	1158.48	3800.80	100.88	5.31	0.00	322.41
00E	2087N	1160.16	3806.31	100.55	5.32	0.00	322.43
00E	2075N	1162.00	3812.33	100.24	5.32	0.00	322.51
00E	2062N	1164.03	3819.00	99.82	5.33	0.00	322.52
00E	2050N	1165.63	3824.23	99.58	5.34	0.00	322.60
00E	2037N	1167.58	3830.65	99.19	5.35	0.00	322.62
00E	2025N	1168.26	3832.88	99.09	5.35	0.00	322.66
00E	2012N	1168.12	3832.43	99.14	5.36	0.00	322.68
00E	2000N	1168.69	3834.28	99.03	5.37	0.00	322.69
00E	1987N	1170.28	3839.49	98.69	5.37	0.00	322.68
00E	1975N	1172.17	3845.70	98.41	5.38	0.00	322.80
00E	1962N	1174.23	3852.45	98.05	5.39	0.00	322.86
00E	1950N	1176.97	3861.44	97.57	5.39	0.00	322.95
00E	1937N	1178.53	3866.56	97.26	5.40	0.00	322.97
00E	1925N	1179.67	3870.30	97.03	5.41	0.00	322.97
00E	1912N	1180.76	3873.90	96.86	5.42	0.00	323.03
00E	1900N	1182.13	3878.38	96.60	5.42	0.00	323.05
00E	1887N	1182.93	3880.99	96.48	5.43	0.00	323.09
00E	1875N	1184.24	3885.30	96.20	5.44	0.00	323.09
00E	1862N	1185.47	3889.34	95.98	5.44	0.00	323.12
00E	1850N	1186.51	3892.74	95.76	5.45	0.00	323.13
00E	1837N	1186.54	3892.86	95.77	5.46	0.00	323.14
00E	1825N	1185.70	3890.09	95.99	5.47	0.00	323.18
00E	1812N	1186.14	3891.53	95.86	5.47	0.00	323.14
00E	1800N	1186.68	3893.31	95.77	5.48	0.00	323.17

LINE 7000E

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E 3000N	1177.50	3863.20	96.87	4.93	0.00	322.43
00E 2987N	1176.11	3858.64	97.07	4.94	0.00	322.34
00E 2975N	1174.75	3854.17	97.28	4.95	0.00	322.28
00E 2962N	1172.94	3848.23	97.63	4.96	0.00	322.25
00E 2950N	1171.72	3844.21	97.85	4.95	0.00	322.22
00E 2937N	1170.90	3841.52	97.95	4.96	0.00	322.15
00E 2925N	1169.74	3837.74	98.23	4.97	0.00	322.19
00E 2912N	1168.77	3834.55	98.36	4.98	0.00	322.12
00E 2900N	1167.88	3831.64	98.50	4.99	0.00	322.07
00E 2887N	1166.00	3825.46	98.88	5.00	0.00	322.05
00E 2875N	1163.96	3818.78	99.28	5.01	0.00	322.03
00E 2862N	1161.46	3810.58	99.80	5.02	0.00	322.03
00E 2850N	1159.08	3802.75	100.26	5.01	0.00	321.99
00E 2837N	1157.11	3796.30	100.72	5.02	0.00	322.03
00E 2825N	1156.18	3793.24	100.86	5.03	0.00	321.98
00E 2812N	1155.27	3790.25	101.11	5.04	0.00	322.03
00E 2800N	1154.89	3789.02	101.25	5.05	0.00	322.09
00E 2787N	1154.55	3787.88	101.27	5.06	0.00	322.04
00E 2775N	1154.12	3786.47	101.38	5.07	0.00	322.05
00E 2762N	1153.43	3784.22	101.50	5.06	0.00	322.05
00E 2750N	1153.17	3783.35	101.58	5.07	0.00	322.07
00E 2737N	1152.93	3782.59	101.64	5.08	0.00	322.08
00E 2725N	1151.63	3778.31	101.92	5.09	0.00	322.09
00E 2712N	1150.36	3774.14	102.23	5.10	0.00	322.13
00E 2700N	1147.75	3765.58	102.77	5.11	0.00	322.11
00E 2687N	1146.28	3760.76	103.12	5.12	0.00	322.15
00E 2675N	1146.39	3761.13	103.06	5.11	0.00	322.13
00E 2662N	1148.12	3766.81	102.65	5.12	0.00	322.08
00E 2650N	1147.67	3765.32	102.66	5.13	0.00	322.00
00E 2637N	1143.27	3750.89	103.65	5.14	0.00	322.06
00E 2625N	1140.59	3742.10	104.21	5.15	0.00	322.05
00E 2612N	1138.36	3734.77	104.68	5.16	0.00	322.06
00E 2600N	1136.53	3728.78	105.05	5.17	0.00	322.05
00E 2587N	1135.36	3724.92	105.23	5.18	0.00	321.98
00E 2575N	1132.80	3716.54	105.74	5.17	0.00	321.96
00E 2562N	1130.55	3709.17	106.16	5.18	0.00	321.92
00E 2550N	1127.17	3698.05	106.86	5.19	0.00	321.90
00E 2537N	1124.71	3689.99	107.33	5.20	0.00	321.86
00E 2525N	1122.72	3683.46	107.67	5.21	0.00	321.79
00E 2512N	1120.15	3675.02	108.17	5.22	0.00	321.75
00E 2500N	1117.31	3665.73	108.69	5.23	0.00	321.68
00E 2487N	1112.35	3649.44	109.64	5.22	0.00	321.59
00E 2475N	1109.15	3638.94	110.20	5.23	0.00	321.50
00E 2462N	1105.22	3626.06	110.88	5.24	0.00	321.36
00E 2450N	1100.83	3611.66	111.74	5.25	0.00	321.30
00E 2437N	1098.15	3602.87	112.27	5.26	0.00	321.27
00E 2425N	1096.13	3596.23	112.52	5.27	0.00	321.11
00E 2412N	1091.44	3580.84	113.40	5.28	0.00	321.01
00E 2400N	1087.87	3569.12	114.01	5.28	0.00	320.87

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00E 2387N	1081.96	3549.75	115.18	5.28	0.00	320.82
00E 2375N	1081.52	3548.30	115.30	5.29	0.00	320.85
00E 2362N	1081.66	3548.76	115.26	5.30	0.00	320.83
00E 2350N	1082.01	3549.91	115.21	5.31	0.00	320.86
00E 2337N	1082.33	3550.96	115.13	5.32	0.00	320.85
00E 2325N	1082.50	3551.50	115.11	5.33	0.00	320.86
00E 2312N	1082.26	3550.72	115.09	5.34	0.00	320.79
00E 2300N	1082.17	3550.44	115.14	5.33	0.00	320.82
00E 2287N	1082.88	3552.76	115.01	5.34	0.00	320.84
00E 2275N	1083.82	3555.83	114.80	5.35	0.00	320.83
00E 2262N	1084.58	3558.34	114.61	5.36	0.00	320.80
00E 2250N	1086.82	3565.67	114.15	5.37	0.00	320.80
00E 2237N	1090.24	3576.91	113.43	5.38	0.00	320.80
00E 2225N	1093.91	3588.95	112.68	5.39	0.00	320.82
00E 2212N	1096.71	3598.13	112.28	5.38	0.00	320.99
00E 2200N	1099.08	3605.90	111.89	5.39	0.00	321.10
00E 2187N	1102.93	3618.54	111.27	5.40	0.00	321.28
00E 2175N	1105.34	3626.45	110.95	5.41	0.00	321.45
00E 2162N	1107.41	3633.22	110.59	5.42	0.00	321.52
00E 2150N	1107.49	3633.50	110.59	5.43	0.00	321.53
00E 2137N	1107.48	3633.45	110.64	5.44	0.00	321.58
00E 2125N	1107.82	3634.59	110.62	5.45	0.00	321.63
00E 2112N	1109.65	3640.57	110.33	5.44	0.00	321.72
00E 2100N	1111.76	3647.51	109.91	5.45	0.00	321.73
00E 2087N	1115.35	3659.28	109.27	5.46	0.00	321.84
00E 2075N	1118.70	3670.27	108.64	5.47	0.00	321.91
00E 2062N	1122.79	3683.71	107.80	5.48	0.00	321.92
00E 2050N	1124.39	3688.93	107.60	5.49	0.00	322.05
00E 2037N	1127.63	3699.56	106.93	5.50	0.00	322.06
00E 2025N	1130.21	3708.05	106.61	5.49	0.00	322.27
00E 2012N	1132.52	3715.61	106.06	5.50	0.00	322.21
00E 2000N	1134.68	3722.72	105.60	5.51	0.00	322.19
00E 1987N	1136.44	3728.48	105.30	5.52	0.00	322.26
00E 1975N	1138.33	3734.68	104.91	5.53	0.00	322.27
00E 1962N	1139.46	3738.39	104.73	5.54	0.00	322.32
00E 1950N	1141.22	3744.17	104.38	5.55	0.00	322.34
00E 1937N	1142.90	3749.67	104.14	5.54	0.00	322.45
00E 1925N	1144.82	3755.98	103.71	5.55	0.00	322.42
00E 1912N	1146.93	3762.88	103.30	5.56	0.00	322.45
00E 1900N	1148.92	3769.42	102.96	5.57	0.00	322.52
00E 1887N	1151.06	3776.44	102.51	5.58	0.00	322.52
00E 1875N	1152.75	3781.99	102.17	5.59	0.00	322.54
00E 1862N	1154.46	3787.61	101.85	5.60	0.00	322.57
00E 1850N	1157.06	3796.14	101.35	5.61	0.00	322.61
00E 1837N	1159.35	3803.65	100.89	5.60	0.00	322.63
00E 1825N	1161.14	3809.52	100.53	5.61	0.00	322.65
00E 1812N	1162.83	3815.06	100.21	5.62	0.00	322.68
00E 1800N	1164.86	3821.72	99.83	5.63	0.00	322.72

LINE 7400E

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00 E 3000 N	1134.59	3722.40	106.15	5.08	0.00	322.75
00 E 2987 N	1131.90	3713.58	106.68	5.09	0.00	322.72
00 E 2975 N	1129.19	3704.68	107.15	5.09	0.00	322.63
00 E 2962 N	1127.06	3697.70	107.54	5.10	0.00	322.57
00 E 2950 N	1124.99	3690.91	107.93	5.11	0.00	322.54
00 E 2937 N	1123.06	3684.59	108.26	5.12	0.00	322.47
00 E 2925 N	1121.13	3678.24	108.79	5.12	0.00	322.58
00 E 2912 N	1119.27	3672.13	109.18	5.13	0.00	322.58
00 E 2900 N	1116.33	3662.51	109.73	5.14	0.00	322.51
00 E 2887 N	1115.23	3658.88	109.93	5.14	0.00	322.49
00 E 2875 N	1113.99	3654.82	110.13	5.15	0.00	322.44
00 E 2862 N	1112.58	3650.20	110.29	5.16	0.00	322.31
00 E 2850 N	1110.44	3643.17	110.70	5.17	0.00	322.27
00 E 2837 N	1108.23	3635.92	110.99	5.17	0.00	322.11
00 E 2825 N	1105.19	3625.95	111.53	5.18	0.00	322.02
00 E 2812 N	1102.07	3615.72	112.17	5.19	0.00	322.01
00 E 2800 N	1099.67	3607.84	112.61	5.19	0.00	321.95
00 E 2787 N	1097.59	3601.01	113.02	5.20	0.00	321.92
00 E 2775 N	1095.72	3594.87	113.23	5.21	0.00	321.75
00 E 2762 N	1094.10	3589.57	113.59	5.21	0.00	321.77
00 E 2750 N	1092.12	3583.07	113.85	5.22	0.00	321.62
00 E 2737 N	1089.95	3575.94	114.16	5.23	0.00	321.48
00 E 2725 N	1086.31	3564.01	114.84	5.24	0.00	321.42
00 E 2712 N	1084.33	3557.52	115.23	5.24	0.00	321.39
00 E 2700 N	1082.19	3550.50	115.60	5.26	0.00	321.32
00 E 2687 N	1078.64	3538.83	116.21	5.27	0.00	321.19
00 E 2675 N	1076.21	3530.87	116.65	5.27	0.00	321.12
00 E 2662 N	1073.04	3520.46	117.25	5.28	0.00	321.06
00 E 2650 N	1072.22	3517.78	117.40	5.29	0.00	321.04
00 E 2637 N	1072.42	3518.45	117.40	5.30	0.00	321.08
00 E 2625 N	1071.25	3514.59	117.58	5.30	0.00	321.01
00 E 2612 N	1071.45	3515.26	117.45	5.31	0.00	320.93
00 E 2600 N	1071.21	3514.46	117.47	5.32	0.00	320.91
00 E 2587 N	1070.80	3513.13	117.57	5.32	0.00	320.92
00 E 2575 N	1070.47	3512.04	0.00	5.33	0.00	210.56
00 E 2562 N	1070.44	3511.94	117.59	5.34	0.00	320.87
00 E 2550 N	1070.56	3512.35	117.55	5.34	0.00	320.85
00 E 2537 N	1069.74	3509.65	117.59	5.35	0.00	320.73
00 E 2525 N	1067.66	3502.81	117.91	5.36	0.00	320.62
00 E 2512 N	1067.83	3503.39	117.89	5.37	0.00	320.63
00 E 2500 N	1068.45	3505.42	117.76	5.37	0.00	320.63
00 E 2487 N	1069.74	3509.66	117.41	5.38	0.00	320.56
00 E 2475 N	1073.17	3520.91	116.75	5.39	0.00	320.61
00 E 2462 N	1074.04	3523.75	116.55	5.39	0.00	320.60
00 E 2450 N	1073.97	3523.54	116.57	5.40	0.00	320.60
00 E 2437 N	1072.13	3517.48	116.90	5.41	0.00	320.55
00 E 2425 N	1070.85	3513.30	117.07	5.42	0.00	320.46
00 E 2412 N	1067.84	3503.41	117.38	5.42	0.00	320.15
00 E 2400 N	1065.68	3496.33	118.05	5.43	0.00	320.36

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
00 E 2387 N	1065.36	3495.29	118.12	5.44	0.00	320.37
00 E 2375 N	1065.12	3494.49	118.16	5.44	0.00	320.35
00 E 2362 N	1065.07	3494.34	118.23	5.45	0.00	320.41
00 E 2350 N	1065.91	3497.07	118.05	5.46	0.00	320.40
00 E 2337 N	1066.43	3498.79	117.95	5.47	0.00	320.42
00 E 2325 N	1067.06	3500.86	117.84	5.47	0.00	320.43
00 E 2312 N	1067.66	3502.83	117.71	5.48	0.00	320.43
00 E 2300 N	1068.03	3504.02	117.65	5.49	0.00	320.45
00 E 2287 N	1069.15	3507.70	117.40	5.49	0.00	320.43
00 E 2275 N	1069.66	3509.39	117.26	5.50	0.00	320.40
00 E 2262 N	1071.30	3514.75	117.00	5.51	0.00	320.48
00 E 2250 N	1072.80	3519.67	116.78	5.52	0.00	320.57
00 E 2237 N	1073.40	3521.64	116.63	5.52	0.00	320.55
00 E 2225 N	1073.78	3522.89	116.61	5.53	0.00	320.60
00 E 2212 N	1074.41	3524.98	116.44	5.54	0.00	320.57
00 E 2200 N	1075.25	3527.71	116.29	5.54	0.00	320.59
00 E 2187 N	1076.03	3530.27	116.16	5.55	0.00	320.62
00 E 2175 N	1076.98	3533.39	116.01	5.56	0.00	320.67
00 E 2162 N	1077.70	3535.76	115.91	5.56	0.00	320.72
00 E 2150 N	1078.90	3539.70	115.57	5.57	0.00	320.64
00 E 2137 N	1080.31	3544.32	115.33	5.58	0.00	320.69
00 E 2125 N	1081.08	3546.84	115.26	5.59	0.00	320.78
00 E 2112 N	1082.18	3550.45	115.01	5.59	0.00	320.75
00 E 2100 N	1084.26	3557.29	114.72	5.61	0.00	320.89
00 E 2087 N	1086.70	3565.30	114.28	5.62	0.00	320.95
00 E 2075 N	1087.25	3567.10	114.13	5.62	0.00	320.92
00 E 2062 N	1088.02	3569.63	113.97	5.63	0.00	320.92
00 E 2050 N	1090.14	3576.59	113.60	5.64	0.00	321.00
00 E 2037 N	1090.88	3579.01	113.36	5.65	0.00	320.92
00 E 2025 N	1092.39	3583.95	113.10	5.65	0.00	320.97
00 E 2012 N	1094.55	3591.05	112.63	5.66	0.00	320.96
00 E 2000 N	1097.28	3600.00	112.16	5.67	0.00	321.06
00 E 1987 N	1098.32	3603.41	111.95	5.67	0.00	321.06
00 E 1975 N	1099.87	3608.49	111.63	5.68	0.00	321.06
00 E 1962 N	1101.88	3615.08	111.22	5.69	0.00	321.08
00 E 1950 N	1103.93	3621.83	110.84	5.69	0.00	321.12
00 E 1937 N	1105.78	3627.88	110.41	5.70	0.00	321.09
00 E 1925 N	1107.91	3634.88	110.05	5.71	0.00	321.16
00 E 1912 N	1110.34	3642.85	109.54	5.72	0.00	321.16
00 E 1900 N	1112.24	3649.08	109.20	5.72	0.00	321.22
00 E 1887 N	1113.93	3654.64	108.83	5.73	0.00	321.20
00 E 1875 N	1114.81	3657.51	108.69	5.74	0.00	321.24
00 E 1862 N	1117.15	3665.18	108.20	5.74	0.00	321.24
00 E 1850 N	1120.23	3675.31	107.63	5.75	0.00	321.32
00 E 1837 N	1121.88	3680.71	107.37	5.76	0.00	321.40
00 E 1825 N	1124.74	3690.09	106.83	5.77	0.00	321.46
00 E 1812 N	1128.18	3701.38	106.14	5.77	0.00	321.48
00 E 1800 N	1131.09	3710.94	105.55	5.78	0.00	321.50

STN. NO.	ELEV. METRES	ELEV. FEET	OBSERVED GRAVITY	LATITUDE COR.	TERRAIN COR.	SIMPLE BOUGUER
LINE 2000N						
00N 6200E	1195.66	3922.78	93.72	5.21	0.00	322.97
00N 6250E	1196.77	3926.42	93.56	5.23	0.00	323.04
00N 6300E	1196.14	3924.35	93.71	5.25	0.00	323.06
00N 6350E	1193.32	3915.10	94.26	5.27	0.00	323.02
00N 6400E	1187.66	3896.51	95.42	5.28	0.00	297.98
00N 6450E	1184.91	3887.50	95.81	5.30	0.00	322.82
00N 6500E	1180.90	3874.36	96.56	5.33	0.00	322.73
00N 6550E	1175.56	3856.82	97.70	5.34	0.00	322.76
00N 6600E	1168.69	3834.28	99.03	5.36	0.00	322.65
00N 6650E	1162.92	3815.37	100.12	5.38	0.00	322.53
00N 6700E	1160.13	3806.20	100.80	5.40	0.00	322.62
00N 6750E	1156.34	3793.76	101.38	5.41	0.00	322.42
00N 6800E	1145.80	3759.18	103.42	5.44	0.00	322.26
00N 6850E	1136.14	3725.27	105.37	5.46	0.00	322.19
00N 6900E	1132.16	3714.45	106.01	5.47	0.00	322.15
00N 6950E	1130.29	3708.31	106.34	5.49	0.00	322.09
00N 7000E	1134.68	3722.72	105.61	5.51	0.00	322.26
00N 7050E	1135.30	3724.75	105.54	5.53	0.00	322.31
00N 7100E	1132.58	3715.82	106.07	5.55	0.00	322.29
00N 7150E	1129.77	3706.61	106.56	5.57	0.00	322.20
00N 7200E	1122.71	3683.44	107.81	5.59	0.00	321.98
00N 7250E	1115.13	3658.57	109.10	5.60	0.00	321.69
00N 7300E	1105.35	3626.47	110.78	5.62	0.00	321.35
00N 7350E	1098.45	3603.84	111.88	5.64	0.00	321.03
00N 7400E	1097.28	3600.00	112.13	5.66	0.00	321.03

APPENDIX "H"

SURVEYED STATIONS

NORTH WEST SURVEY CORPORATION (YUKON) LTD.

AUGUST 11,1983

JOB NUMBER 1971-83

CORDILLERAN ENGINEERING LIMITED

MEISTER PROPERTY - MEISTER LAKE Y.T. - MAP SHEET 105\B

PHOTO CONTROL SURVEY

UTM COORDINATES AND ELEVATIONS OF CONTROL POINTS, DERIVED FROM GEODEDIC STATIONS RANCH, MEISTER, AND SPENCER, AND FROM BENCH MARK 77-Y-026, ELEVATION 857.531 METRES.

U.T.M.- ZONE # 9

LATITUDE	LONGITUDE	NORTHING	EASTING
	GEODEDIC STATION	RANCH	
60 09 02.284	130 00 12.100	6,668,404.081	444,288.723
- 0 52 12.987	CONVERGENCE	0.9996380 SCALE FACTOR	
	GEODEDIC STATION	MEISTER	
60 19 31.064	130 12 04.532	6,688,037.994	433,655.322
- 1 02 37.505	CONVERGENCE	0.9996539 SCALE FACTOR	
1439.790	ELEVATION(M)	0.9994281 GRID FACTOR	
	GEODEDIC STATION	SPENCER	
60 10 12.115	130 34 12.729	6,671,177.147	412,869.666
- 1 21 44.077	CONVERGENCE	0.9996930 SCALE FACTOR	
2034.290	ELEVATION(M)	0.9993739 GRID FACTOR	
	TOPOGRAPHIC STATION	MOOSE	
60 15 19.673	130 20 02.294	6,680,402.573	426,169.119
- 1 09 29.758	CONVERGENCE	0.9996668 SCALE FACTOR	
1635.660	ELEVATION(M)	0.9994102 GRID FACTOR	

```
U.T.M.- ZONE # 9
--------------------------------------------------------------------------
       LATITUDE      LONGITUDE                NORTHING            EASTING
--------------------------------------------------------------------------

                         TOPOGRAPHIC STATION  DUKE

  60 14 48.094 130 15 14.131         6,679,338.826       430,580.419
-  1 05 19.188 CONVERGENCE       0.9996590 SCALE FACTOR
      1447.730 ELEVATION(M)         0.9994320 GRID  FACTOR


                          CONTROL STATION #1245

  60 20 33.367 130 17 56.275         6,690,067.558       428,297.499
-  1 07 43.852 CONVERGENCE       0.9996630 SCALE FACTOR
      1323.510 ELEVATION(M)         0.9994554 GRID  FACTOR


                          CONTROL STATION #1246

  60 17 22.486 130 22 45.114         6,684,252.978       423,745.569
-  1 11 52.612 CONVERGENCE       0.9996712 SCALE FACTOR
      1389.130 ELEVATION(M)         0.9994533 GRID  FACTOR


                          CONTROL STATION #1247

  60 16 35.667 130 17 56.486         6,682,714.723       428,149.406
-  1 07 41.367 CONVERGENCE       0.9996632 SCALE FACTOR
      1470.010 ELEVATION(M)         0.9994327 GRID  FACTOR


                          CONTROL STATION #1248

  60 12 20.572 130 16 06.321         6,674,790.813       429,690.197
-  1 06 02.881 CONVERGENCE       0.9996606 SCALE FACTOR
      1319.770 ELEVATION(M)         0.9994535 GRID  FACTOR


                          CONTROL STATION #1249

  60 16 01.914 130 27 50.805         6,681,861.895       418,995.933
-  1 16 17.137 CONVERGENCE       0.9996804 SCALE FACTOR
      1429.070 ELEVATION(M)         0.9994562 GRID  FACTOR
```

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U.T.M.- ZONE # 9
--------------------------------------------------------------------------
      LATITUDE      LONGITUDE               NORTHING            EASTING
--------------------------------------------------------------------------

                          CONTROL STATION #1250

  60 20 24.076 130 25 04.322          6,689,915.389       421,728.612
-  1 13 55.762 CONVERGENCE          0.9996750 SCALE FACTOR
      1342.820 ELEVATION(M)            0.9994644 GRID  FACTOR


                          CONTROL STATION #1251

  60 16 51.309 130 08 18.617          6,683,034.560       437,035.640
-  0 59 19.626 CONVERGENCE          0.9996486 SCALE FACTOR
       890.170 ELEVATION(M)            0.9995089 GRID  FACTOR


                          CONTROL STATION #1252

  60 13 30.495 130 30 37.848          6,677,236.090       416,321.820
-  1 18 40.232 CONVERGENCE          0.9996858 SCALE FACTOR
      1727.200 ELEVATION(M)            0.9994149 GRID  FACTOR


                          CONTROL STATION #1253 (NEAR CAMP)

  60 17 42.053 130 19 58.343          6,684,805.600       426,318.840
-  1 09 27.970 CONVERGENCE          0.9996665 SCALE FACTOR
      1190.780 ELEVATION(M)            0.9994797 GRID  FACTOR


                          TRAVERSE STATION N-1

  60 18 58.308 130 18 46.249          6,687,142.210       427,472.740
-  1 08 26.207 CONVERGENCE          0.9996644 SCALE FACTOR
       902.070 ELEVATION(M)            0.9995229 GRID  FACTOR


NEAR EAST END MEISTER LAKE, FOUND TWO CLAIM POSTS WITH TAGS
YA69474(POST NO.2) AND YA69475(POST NO.2) - PLACED IRON BAR.

  60 18 58.671 130 18 41.815          6,687,152.100       427,541.000
-  1 08 22.358 CONVERGENCE          0.9996643 SCALE FACTOR
```

NORTH WEST SURVEY CORPORATION (YUKON) LTD.

JOB Nº 1971-83
CORDILLERAN ENGINEERING LTD
MEISTER PROPERTY, MEISTER LK, Y
MAP SHEET 105/B
PHOTO CONTROL SURVEY

STATION ELEVATIONS FOR
PHOTOGRAMMETRIC PURPOSES.

STATION	ELEVATION OF TOP of MONUMENT	ELEVATION OF GROUND
"MEISTER"	1439.79 m ✓	1439.79 m
"SPENCER" (NOT TARGETTED)	2034.29 m ✓	2034.29 m
"MOOSE"	1635.66 m ✓	1634.96 m
"DUKE"	1447.73 m ✓	1447.03 m
#1245	1323.51 m ✓	1323.41 m
#1246	1389.13 m ✓	1388.98 m
#1247	1470.01 m ✓	1470.01 m
#1248	1319.77 m ✓	1319.42 m ✓
#1249	1429.07 m ✓	1428.93 m ✓
#1250	1342.82 m ✓	1342.58 m ✓
#1251	890.17 m ✓	890.07 m ✓
#1252 (NOT TARGETTED)	1727.20 m ✓	1726.95 m ✓
#1253	1190.78 m ✓	1190.56 m ✓

APPENDIX "I"

PETROGRAPHIC REPORTS

Harris
**EXPLORATION
SERVICES**

MINERALOGY AND GEOCHEMISTRY

534 ELLIS STREET, NORTH VANCOUVER, B.C., CANADA V7H 2G6
TELEPHONE (604) 929-5867

Invoice 83-19

Report for:
Michael H. Sanguinetti,
Cordilleran Engineering,
1418-355 Burrard St.,
Vancouver, B.C. V6C 2G8

Samples

34 samples, as listed below, were prepared as thin sections.

Sample No.	Slide No.	Sample No.	Slide No.
H-1 18.8 m	79 X	H-3 23.4 m	96 X
24.9	80 X	69.0	97 X
52.0	81 X	H-4 29.0	98 X
64.6	82 X	42.6	99 X
92.6	83 X	51.2	100 X
99.1	84 X	92.5	101 X
100.8	85 X	108.2	102 X
108.8	90 X	143.8	103 X
118.2	86 X	157.8	104 X
141.7	88 X	165.8	105 X
H-2 41.0	89 X	174.3	106 X
113.6	91 X	188.6	107 X
136.0	92 X	226.3	108 X
141.4	87 X	H-5 67.7	109 X
223.0	93 X	86.2	110 X
H-3 11.2	94 X	116.4	111 X
15.8	95 X	254.0	112 X

Summary

This suite is made up largely of fine-grained metasediments. These rocks - originally a series of pelites, fine arenites and carbonates, often in finely interlaminated combinations - show mineralogy indicative of low level (greenschist facies) regional metamorphism, but exhibit microstructural deformation features indicative of strong dislocation (dynamic) metamorphism.

The naming of such rocks is a somewhat subjective matter. Because most of them show not only a well developed schistosity, but often exhibit microfolding and development of axial plane cleavage, I have tended to use the term "schist" - prefaced by the principal constituents.

It might be argued that these rocks are too fine-grained to merit the name schist and (when pelitic in character) would be better described as phyllites. Perhaps this is so. I feel the best solution to the problem is for you to take the petrographic data (I have tried to make my descriptions as factual as possible) and combine it with your knowledge of field relationships to come up, where necessary, with modified names that suit your own preference.

In a suite of this size there are many interesting features, similarities, differences, etc., which seem worthy of comment. You will no doubt recognize these when you compile the information from my descriptions.

Please bear in mind that the estimated modes relate to the thin section itself. Where the rocks show strong compositional differentiation, it may not necessarily represent the bulk composition.

Some notable generalities are:

i) The prevalence of finely laminated structures: these are believed to be primary sedimentary features which have survived metamorphism and recrystallisation.

ii) The restricted major mineralogy: quartz, muscovite and calcite are almost always the major constituents. Chlorite, biotite and epidote are seldom seen. Feldspars are apparently absent (though it is possible that clear, untwinned metamorphic albite could be an unrecognised minor constituent of some of the quartzose aggregates).

iii) The variable minor mineralogy: the occurrence of chloritoid (ottrelite) in some of the rocks: the occurrence of apatite, often rather abundantly, in the samples from H-4: the rather widespread development of tourmaline: the prevalence of fine-grained rutile in the schistose sericite component: and the widespread development of limonite, such that a number of these rocks should be prefaced "ferruginous".

iv) The variety of carbonate mineralogy: whilst calcite is by far the most abundant carbonate, XRD checks indicated the presence of significant dolomite in 7 samples, and siderite in 6. The presence of limonite staining in many of the carbonates (not only siderite) suggests that they may be ferroan varieties.

v) The variety of microstructural deformation: the descriptions, based as they are on a two-dimensional surface, cannot give a complete picture. The majority of the deformation (except for grain flattening) has been taken up by the fine-grained sericitic layers, though quartzose and carbonate interbeds sometimes show mobilisation. The deformation is often made more clearly visible by the concentration of fine-grained rutile and opaques into structurally controlled zones. The presence of these dark wisps in the sericite is a common feature of many of the rocks.

Specific petrographic descriptions of each of the rocks in the suite are attached. Should you have any queries or require further information please contact me.

Many of these rocks have features which would lend themselves well to illustration via photomicrographs. If the information is to be summarised for a report, some pictures might be particularly appropriate. Let me know if you would like me to provide these for you.

J.F Harris

J.F Harris Ph.D.
October 28th, 1983

79X (H-1 18.8 m) FINE-GRAINED MUSCOVITE-QUARTZ-CHLORITOID SCHIST

Estimated mode

Sericite) Muscovite)	78
Quartz	10
Chloritoid	7
Rutile and sub-opaque dust	3
Opaques) Limonite)	2

This rock is composed principally of fine-grained, flaky, well-oriented sericite. Minor quartz occurs within the sericite as scattered individual grains, 0.05 - 0.2mm, and small lenticular segregations. Tiny rutile needles and micron-sized opaque to sub-opaque material forms close-spaced wisps and streaks parallel to the foliation.

A few parallel, highly quartzose bands 1 - 5mm thick occur. These are composed of platy layers and lenses of quartz as grains, 0.2 - 0.5mm, strongly flattened parallel to the foliation. The layers of quartz grains are separated by semi-continuous laminae of well-crystallised muscovite. Localised lenses of coarser, less deformed quartz also occur.

Chloritoid occurs disseminated throughout the rock, in quartzose and sericitic bands alike. It forms individual, slender, prismatic crystals, 0.1 - 0.4mm, showing random orientation.

Minor anhedral opaques occur, generally associated with the coarsest quartz lenses. The main concentration of opaques is strongly altered to skeletal limonite pseudomorphs.

The schistosity of this rock (as defined by the orientation of the micas and the flattening of quartz grains) runs obliquely, at a low angle, to the plane of the quartzose bands (which are assumed to represent sandy layers defining original bedding). The schistosity shows folding or flexures along axes defining a third structural direction.

80X (H-1 24.9 m) CHLORITE-QUARTZ-CALCITE SCHIST.

Estimated mode

Chlorite	33
Quartz	28
Calcite	22
Muscovite	12
Rutile	3
Chloritoid	1
Limonite	1

This rock shows a compositional banding on the scale of 2 - 5mm. The bands consist of intergrowths of the three major constituents in various proportions.

The quartz consists of anhedral grains, 0.1 - 0.5mm. These sometimes show a distinct elongation parallel to the banding, but sometimes form patches of apparently undeformed polygonal mosaic. The quartz occurs as individual grains and lenticular aggregates within a matrix of flaky chlorite.

The chlorite is a well crystallised yellowish-green variety showing brownish-grey interference colours. It forms felted bands in which the crystals show a rough preferred orientation parallel to the compositional layering.

The calcite forms grains, 0.2 - 1.0mm, aggregating into elongate masses or discontinuous bands, locally taking over the role of the chlorite as matrix to the quartz grains. It is a dark coloured variety with cleavages emphasised by sub-opaque pigmentation and locally with patches of limonite staining. XRD indicates its composition as calcite with a possible minor component of dolomite.

Rutile is a relatively abundant component. It forms clusters of slender, golden-brown prisms, 0.05 - 0.2mm long. These occur in lines and elongate patches, particularly, but not exclusively, in the chlorite-rich bands.

Two components, muscovite and chloritoid, appear to have formed after the main metamorphic episode. They form coarse prismatic, often strikingly poikiloblastic, crystals up to 2mm long. These show random orientation and no preference for any particular compositional layer.

Minor disseminated opaques are altered to limonite.

81X (H-1 52.0 m) CONTORTED SERICITE-QUARTZ SCHIST WITH DIAPIRIC CALCITE

Estimated mode

Calcite	47
Sericite	30
Quartz	20
Limonite) Opaques)	3

This is a texturally heterogenous and highly disturbed rock.

One end of the slide is made up of relatively undisturbed, extremely fine-grained felted sericite with occasional minor laminae (about 0.5mm thick) of granular quartz and some parallel zones of fine-grained carbonate.

This gives way discordantly to the material making up the central 3/4 of the slide, which is a melange of quartz and carbonate veins and replacements (?) with dislocated slivers and fragments of the felted sericite component.

The carbonate is very coarse-grained calcite, making up large plates, 1cm or more in size. These are inclusion-free except for local patches of arborescent and skeletal limonite.

The coarse carbonate grades by way of a transition zone with islands of quartz set in an apparently invading (replacing? fluidised?) matrix of calcite, to a third component which is dominantly quartzose - consisting of lines of flattened grains, 0.1 - 0.4mm, separated by muscovite laminae. This material is interbanded with the sericite-rich material previously described and is locally veined by tongues of carbonate. Irregular patches of limonitised opaques are associated with the coarsest quartz lenses.

Deformation as evidenced by crumpling of the foliation and disruption of quartz bands is intense adjacent to and within the margins of the carbonate. mass which appears to have been mobilised into its present position.

82X (H-1 64.6 m) SERICITE-QUARTZ-CALCITE SCHIST

Estimated mode

Sericite) Muscovite)	45
Quartz	25
Calcite	25
Rutile) Sub-opaque dust)	4
Opaques) Limonite)	1

In hand specimen this rock shows alternating stripes of dark grey and tan. In thin section the dark grey is seen to be a fine-grained felted sericite and the tan an intergrowth of carbonate and quartz. The banding is generally on the scale of 2 - 5mm and is quite sharp.

The sericite component is the same as occurs in many rocks of this suite - a well-oriented mass of fine-grained sericite with occasional small quartz grains (0.05 - 0.1mm) and a high concentration of micron-sized sub-opaque material (dominantly tiny rutile needles) which forms close-spaced wisps paralleling the foliation and imparting the dark colour.

The quartzose bands consist of grains, 0.1 - 0.5mm, sometimes in a matrix of calcite. A component intermediate between the sericite schist and the quartz bands, consisting of lines of fine-grained, highly flattened quartz grains interlayered with sericite also occurs.

The calcite forms mosaics of grains, 0.5 - 1.0mm. As indicated above it frequently contains intergrown quartz and also flakes of muscovite. It is a dark coloured variety with limonite-stained cleavages.

Although the parallelism of the banding (presumably relict bedding) is essentially undisturbed, the sericitic layers show well developed fold axes and shearing in a direction almost perpendicular to the banding.

83X (H-1 92.6 m) DOLOMITISED MARBLE

Estimated mode

Calcite	50
Dolomite	50

This is a pure carbonate rock consisting of calcite as a medium-grained (c. 0.5mm) anhedral mosaic showing slight, but perceptible, preferred orientation (grain elongation). It contains dispersed, micron-sized sub-opaque inclusions which impart an overall brown colour.

The dolomite occurs as clear, inclusion-free granules of much smaller size (0.05 - 0.2mm). These form irregular chains and networks controlled by the calcite grain boundaries, and aggregated clumps, often elongate, from 1 to 5mm in size. The distribution of the dolomite patches emphasises the crudely parallel structural grain of the rock.

84X (H-1 99.1 m) CARBONATE SCHIST

Estimated mode

Siderite	35
Calcite	25
Quartz	22
Muscovite	15
Opaques) Limonite)	3

This rock shows undisturbed parallel laminations on the scale of 1 - 5mm. These are made up of bands of the four main components, strongly segregated or in various degrees of intergrowth.

The siderite occurs as brown high-relief granules c. 0.1mm in size. These form lenticular aggregates and en-echelon strings with more or less interstitial calcite, muscovite flakes and strongly flattened quartz grains.

Calcite also forms bands in which it is the dominant component, as strongly elongate grains, 0.5 - 2mm with intergrown parallel flakes of muscovite and minor quartz.

Quartz forms lines of strongly flattened grains and lenticular aggregates throughout the bands of dominant carbonate or sericite.

Opaques form scattered anhedra, 0.5 - 1.5mm,and also, with associated limonite, are concentrated as finer granules in some of the sericite-quartz layers.

This rock shows apparently undeformed layering. However, some of the more sericitic bands show clear evidence of shearing parallel to the layering and it may be that much of the strong foliation and grain elongation has developed in response to these shearing stresses.

85X (H-1 100.8 m)   SKARN? HORNFELS?

Estimated mode

Chlorite	25
Calcite	23
Quartz	22
Muscovite	20
Epidote	6
Sphene	3
Zircon	1

This rock differs from almost all of the others in the suite by having no compositional banding or oriented fabric. A weak platy structure or lineation is perceptible on some fractured surfaces of the hand specimen but is not seen in the thin section.

The rock is made up of a granular intergrowth of the various constituents, with a mesh-like texture bestowed by the randomly oriented, rather coarse, muscovite.

Quartz occurs as individual anhedral grains, 0.05 - 0.2mm, and small granular aggregates. The quartz commonly contains abundant tiny high relief inclusions (zircon).

The carbonate occurs most commonly as individual grains, 0.2 - 1.0mm, strongly impregnated along cleavages and randomly blotched with dark brown pigmentation (limonite?). Locally the carbonate is altered to epidote as replacement rims and patches. Epidote also forms skeletal subhedra intergrown with quartz and chlorite.

Sphene forms abundant disseminated dark brown granules, 0.05 - 0.2mm.

The chlorite (a green variety with strong anomalous blue birefringence) is a felted aggregate of stumpy crystals about 0.2mm in size. It effectively forms a matrix to all the other constituents.

Muscovite forms ragged-ended prismatic crystals, 0.2 - 1.0mm, mostly as random individuals but also as local intersecting meshworks.

The texture is strongly reminiscent of an igneous rock. However, the apparent lack of feldspar makes this unlikely. It also has some of the attributes of a hornfels or a skarn.

90X (H-1 108.8 m) SERICITE SCHIST WITH CHLORITOID

Estimated mode

Sericite	47
Quartz	36
Chloritoid	11
Rutile	5
Tourmaline	1

This rock consists of thin parallel lenticular laminae of granular quartz (0.2 - 0.4mm) in a dominant component which consists of fine-grained sericite with more or less tiny, flattened, interstitial grains of quartz (0.1 - 0.2mm).

Tiny sub-oriented prisms of rutile are disseminated through the more sericitic layers. Small tourmaline prisms are less common but occur in both sericitic and quartzose layers.

Chloritoid is an abundant constituent as disseminated non-oriented, subhedral prisms, 0.2 - 0.5mm.

Diffuse limonite staining is widely distributed, especially in the sericitic layers, and also in partings and fractures in the chloritoid crystals.

The direction of foliation, though generally parallel to the layering, shows sinuous fluctuations. A second direction oblique to the banding is clearly defined by fold axes in the sericitic layers.

86X (H-1 118.2 m) SERICITE SCHIST WITH CHLORITOID

Estimated mode

Sericite) Muscovite)	45
Quartz	40
Chloritoid	10
Tourmaline	2
Sphene	2
Rutile	1

This is a finely banded rock composed of alternating thin quartzose and sericitic layers, often on a scale of as little as a millimeter or so.

The sericitic layers sometimes contain minor fine-grained quartz but are often essentially monomineralic. The quartzose layers are composed of dominantly polygonal grains, 0.2 - 0.5mm, locally with minor interstitial sericite.

The two components are mainly well segregated though gradational zones are sometimes seen, with quartz as strongly flattened grains in foliaceous streaks of sericite.

Tourmaline, sphene and rutile occur as tiny prismatic grains in lines and swarms paralleling the local foliation, especially in the sericitic laminae.

Chloritoid is abundantly disseminated throughout as subhedral prismatic grains, 0.2 - 1.0mm. These locally follow the foliation but are mostly of random orientation.

Despite the undisturbed appearance of the laminae, this rock is strongly deformed. There has been intense shearing parallel to the layering and adjacent layers commonly show somewhat divergent directions of foliation, oblique to the compositional banding. The thicker sericitic layers particularly show close-spaced alternations of foliation parallel to and oblique to the primary banding direction.

88X (H-1 141.7 m) FERRUGINOUS QUARTZ-SERICITE SCHIST

Estimated mode

Quartz	49
Sericite	40
Limonite	5
Opaques) Rutile)	4
Muscovite	1
Tourmaline	1

In hand specimen this is a striped rock with alternating dark grey and brownish-white bands or lenses.

In thin section these layers are seen to range from essentially pure sericite to dominantly fine-grained quartz.

The quartzose layers consist of anhedral grains, 0.1 - 0.2mm, showing somewhat variable degrees of elongation parallel to the banding, and with interstitial oriented sericite flakes.

The sericitic layers (and some of the more quartzose ones also) contain clusters of rhombic (?) limonite pseudomorphs and rimmed cavities, 0.2 - 1.0mm, and are strongly stained by streaks of pervasive limonite. They also contain numerous small elongate anhedra (0.1 - 0.4mm) of opaques, sub-opaque rutile and stumpy prisms of tourmaline, generally paralleling the foliation.

There is also an intermediate type of band which consists of abundant individual elongate quartz grains "floating" in a matrix of very fine-grained sericite. This type of band also has the small opaque/rutile inclusions.

Occasional coarse, randomly oriented plates of muscovite, packed with rutile needles occur; these are apparently porphyroblastic, post-deformational.

Many of the bands are clearly lenticular with tapering lateral terminations. In places these have the appearance of sharp fold crests. Some of the more sericitic layers certainly show local puckering of the foliation.

89X (H-2 41.0 m) CARBONATE-QUARTZ-SCHIST

Estimated mode

Calcite	40
Quartz	32
Chlorite	10
Sericite	10
Rutile	5
Limonite)	2
Opaques)	
Tourmaline	1

This is a fine-grained deformedrock in which compositional layering is poorly developed or largely obliterated by the deformation.

It consists dominantly of an intergrowth of quartz and carbonate. The quartz forms grains 0.2 - 0.5mm - sometimes as individuals elongated parallel to the local foliation and also as lenses of mosaic. These are set in a matrix of fine-grained carbonate. The quartz/carbonate grain contacts are often complex, ill-defined.

The carbonate contains abundant tiny inclusions of rutile needles, sub-opaque dust and tourmaline prisms; it is also extensively and pervasively stained by limonite.

Fine-grained chlorite is intergrown with the carbonate as ill-defined patches and networks.

There are sparse disseminated grains and veinlets of limonitised opaques.

The slide is traversed by numerous narrow sub-parallel sericitic shears. Within the slices defined by these planes the rock shows strong sinusoidal folding, with disruption of quartzose laminae and (probably) flowage of the carbonate indicated by the schlieren-like distribution of rutile/opaque inclusions.

91X (H-2 113.6 m) DOLOMITISED MARBLE

Estimated mode

Calcite	80
Dolomite	15
Quartz	3
Limonite	2

The rock is composed dominantly of an anhedral mosaic of calcite grains 0.2 - 1.0mm. These show a general parallel elongation and complex, frilled grain boundaries. There are sparse tiny quartz inclusions.

Superimposed on this is dolomite as rounded granules, 0.05 - 0.2mm, occurring as networks and elongate clusters parallel to the general structural grain.

Sometimes, but not always, the dolomite has strongly developed intergranular films and dusty inclusions of limonite.

The rock is cut by a 1mm veinlet of quartz which contains skeletal limonite, particularly where it crosses zones of ferro-dolomite.

92X (H-2 136.0 m) GRAPHITIC SCHIST (?)

Estimated mode

Black opaque material	75
Sericite	18
Quartz	7

Little can be said about this rock from thin section examination. Almost all detail is obscured by the pervasive, structureless black pigmentation.

The other constituents are apparently sericite and fine interlayered quartz (sometimes cherty in appearance).

The rock is intensely deformed, with the foliation crumpled into chevron folds. Attenuation and shearing of fold limbs is also seen.

The cut-off chip contains small pyritic segregations and it is possible that a proportion of the opaque material in the slide may be very fine-grained pyrite.

87X (H-2 141.4 m) MARBLE

Estimated mode

Calcite	80
Dolomite)	17
Siderite)	
Sub-opaques)	3
Limonite)	

The grey/tan colour variations in hand specimen seen to relate to the extent of development of fine-grained dolomite and siderite in the dominant calcite.

The calcite forms an anhedral mosaic of grain size 0.2 - 0.8mm. The grain margins tend to be somewhat frilled, probably indicative of incipient dolomitisation.

This mosaic is set with crudely parallel streaks and small clumps of finely granular (0.1 - 0.2mm) carbonate (dolomite and/or siderite) which locally has brown limonitic staining in the grain boundaries.

Limonite staining also occurs as sinuous lines of small granules and is strongly developed marginal to a cross-cutting veinlet of coarse carbonate.

93X (H-2 223.0 m) CALC SCHIST

Estimated mode

Calcite	75
Quartz	10
Muscovite	7
Chlorite	3
Rutile)	3
Sub-opaque dust)	
Tourmaline	1
Opaques	1

This rock consists dominantly of calcite showing banded variations in grain size and proportion of intergrown quartz and micas.

The coarser bands are composed of mosaics of grains, 0.2 - 0.4mm thick, elongated to about 3 times their thickness. They sometimes contain narrow bands or lenticular segregations of quartz. Muscovite occurs interstitially between the carbonate grains emphasising the platy structure. Locally it is accompanied by chlorite.

The finer layers show intense grain flattening with thicknesses of 0.02 - 0.05mm and lengths up to 10 times the thickness. These bands contain a high content of parallel lines of tiny rutile needles and sub-opaque dust, as well as scattered tourmaline prisms.

These fine-grained layers appear to be the loci of strong shearing and flowage. Drag folding is clearly visible in places.

Opaques (scattered disseminated pyrite) show no consistent relation to the rock fabric.

94X (H-3 11.2 m) SERICITE-CALCITE SCHIST

Estimated mode

Sericite	47
Calcite	15
Siderite	8
Quartz	18
Limonite	5
Chlorite	2
Rutile) Sub-opaque dust)	3

Much of this rock is very fine-grained (0.02 - 0.1mm). It consists of dominant sericite with considerable interstitial quartz as flattened grains. It contains occasional thin laminae and ovoid patches of essentially monomineralic quartz, and of limonite-stained calcite with limonite pseudomorphs. The usual oriented rutile needles and trains of sub-opaque dust occur paralleling the foliation.

Siderite occurs as small ovoid granular clusters (of porphyroblastic appearance) scattered through the fine sericitic schist. It is strongly impregnated with limonite.

The rock is cut by hair-line veinlets of carbonate often with marginal limonitisation.

This rock, though displaying a general parallelism of structure, is apparently intensely deformed by folding and shearing parallel to the banding. Isoclinal fold closures are seen and often the layers of coarse carbonate and quartz are lenticular - possibly remobilised into the cores of the folds - or crumpled and fragmented by the flowage of enclosing layers.

95X (H-3 15.8 m) CALC SCHIST

Estimated mode

Calcite	50
Sericite	20
Quartz	15
Limonite)	15
Opaques)	
Siderite)	

This is a rock of similar general character to 94X though richer in carbonate and not as fine-grained. It consists of banded alternations of the constituent minerals intergrown in different proportions and in different grain sizes.

Quartz occurs principally as individual grains, 0.1 - 0.3mm, or small lenses or strings of grains set in a matrix of granular calcite.

The latter forms an anhedral mosaic of strongly elongated grains 0.2 -0.5mm

Other bands consist of dominant flaky sericite, with abundant limonite as irregular-shaped granules, 0.02 - 0.1mm often aggregating into patches 1mm or more. Sometimes this limonite is associated with carbonate (a minor sideritic component) and sometimes it occurs independently.

The structure appears to consist of attenuated sharp folding along axes parallel to the compositional banding.

96X (H-3 23.4 m) SERICITE-CALCITE SCHIST

Estimated mode

Calcite	45
Sericite	35
Quartz	7
Rutile) Sub-opaque dust)	5
Limonite	8

A coarsely banded grey and tan rock consisting of two well-differentiated components:

i) Calcite as a medium-grained (0.3 - 0.7mm) polygonal mosaic, showing simple grain margins and little or no grain elongation. Intergranular limonite is strongly developed.

Occasional individual grains or strings and clumps of anhedral quartz, 0.2 - 0.5mm, and fine-grained sericitic laminae occur within the granular carbonate areas.

This component forms bands 2 - 10mm with sharp contacts against component ii.

ii) This consists of fine-grained felted sericite with occasional small included quartz grains and a high content of tiny oriented rutile needles and sub-opaque dust.

In fact this is typical of the sericite schist component of many of the rocks of the suite. The difference is that this shows no simple foliation parallel to a compositional banding, but is intricately crumpled along close spaced parallel axes oblique to the coarse carbonate/sericite banding. A quartzose band on the contact of the sericte and carbonate is also strongly crumpled and dislocated.

The carbonate bands show no evidence of the intense deformation in the sericite bands on either side, suggesting that they now exhibit a post-deformational recrystallisation texture.

The rock is strongly impregnated by limonite along the carbonate/sericite contacts (and the dislocated quartzose bands at that contact) and along axial plane fractures (cleavage) in the sericite schist.

97X (H-3 69.0 m) DOLOMITISED MARBLE

Estimated mode

Calcite	70
Dolomite	29
Quartz	1

This is a similar type of rock to 83X and 91X.

The calcite forms a mosaic of slightly elongated, frilled-margin grains, 0.3 - 0.8mm, with banded grain size variations.

Dolomite as granules, 0.1 - 0.2mm, has developed in the calcite grain boundaries and coalesces into elongate lenticular patches paralleling the structural grain. The dolomite locally shows intergranular limonite films.

Also present are scattered large (1 - 2mm) rounded (unflattened) carbonate crystals of porphyroblastic aspect. These lack the strong twinning shown by the calcite mosaic and may represent post-deformational recrystallisation features.

98X (H-4 29.0 m) FERRUGINOUS CARBONATE PSEUDO-BRECCIA

Estimated mode

Calcite	80
Dolomite	10
Limonite	10

This rock is composed essentially of carbonate and limonite.

The textural variations are best shown in the off-cut chip. It is composed dominantly of pink carbonate containing diffuse patches and streaks of grey carbonate. At one end the texture appears fragmental, with ovoid patches of pink carbonate (1 - 5mm) set in a matrix of grey. There are also several varieties of carbonate veins, and zones of limonite impregnation.

In the thin section the colour varieties are not readily distinguishable. Most of the carbonate is a very fine, even-grained anhedral mosaic (c. 0.2mm grain size). The ovoid "fragments" at the brecciated end are clearly apparent. The cementing material is sometimes a coarser carbonate but is often just mosaic carbonate with strong limonite replacement along grain boundaries.

Limonite also occurs as cross cutting veinlets and irregular masses. The latter are seen to be cut by a late phase of carbonate veining.

XRD indicates that the carbonate is largely calcite with minor dolomite. The two are not distinguishable in the slide.

99X (H-4 42.6 m) QUARTZ-MUSCOVITE SCHIST WITH CHLORITOID

Estimated mode

Quartz	44
Muscovite	40
Chloritoid	12
Rutile	2
Tourmaline	1
Apatite	1

This is a rather homogenous rock, without the banded compositional differentiation of others in the suite.

It is made up of quartz as anhedral grains, 0.2 - 0.4mm, occurring as close-spaced thin laminae and strings of grains separated by muscovite flakes, and as small lenticular aggregates. Fine-grained muscovite also forms concentrated lenses interspersed between the quartzose layers.

The rock does not show a simple foliation parallel to the layering, but a rather variable one, following undulations, lensy deformation and drag folding in the quartzose laminae, on axes paralleling the overall lamination. The quartz grains are strongly elongated on fold limbs and equidimensional in fold crests.

Rutile, as small golden-brown needles, stumpy tourmaline prisms and euhedral apatite occur throughout, especially in the more sericitic laminae.

Chloritoid forms prismatic porphyroblasts 0.2 - 2mm in size, scattered throughout. These show a rather poorly developed but perceptible preferred orientation oblique to the general direction of banding and fold axes.

100X (H-4 51.2 m) DOLOMITE

Estimated mode

Dolomite	88
Calcite	10
Limonite	2

This is an almost completely dolomitised rock. It consists of a fine-grained polygonal aggregate of dolomite grains, 0.05 - 0.2mm, in which are set scattered, rounded to elongate, coarser grains, 0.5 - 1.0mm, of calcite.

These represent either undolomitised remnants of original calcite, or porphyroblastic growths representing a de-dolomitisation process.

The rock shows weak pervasive limonite staining and also hair-line fractures with limonite.

No structural grain is apparent in this rock.

101X (H-4 92.5 m) LIMONITISED QUARTZ-MUSCOVITE SCHIST

Estimated mode

Quartz	45
Muscovite	45
Tourmaline	1
Apatite	1
Opaques) Limonite)	8

This rock is compositionally very similar to 99X (except for a lack of chloritoid). It is a rather even-textured intergrowth of quartz and sericite in which intensely flattened quartz grains, 0.5 - 0.2mm thick are arranged in en echelon swarms (like shoals of fish) and elongate strings in a matrix of strongly foliated muscovite.

The rock is closely folded along axes parallel to the layering.

The tourmaline and apatite are minor constituents as tiny disseminated euhedra.

Opaques - often strongly limonitised - form lines of small elongate grains paralleling the foliation, and coarser segregations, particularly in the axes of drag folds.

A 1mm veinlet of solid limonite transects the rock and pervasive intergranular limonitisation extends from it along foliae and fold axes.

102X (H-4 108.2 m) FERRUGINOUS QUARTZITE

Estimated mode

Quartz	78
Muscovite	10
Tourmaline	2
Apatite	2
Zircon	trace
Limonite	8

This is the first of a series of rocks in the suite in which quartz is strongly dominant over micas and in which the weakness of foliation merits designation as quartzite rather than schist.

Quartz is an even-grained anhedral mosaic, 0.1 - 0.3mm, showing only slight grain elongation. The grain boundaries are crenulate in part.

Muscovite forms scattered scrappy flakes interstitial to the quartz, with very occasional more through-going wisps which import a rudimentary, rather undulating foliation.

Tourmaline and apatite are relatively abundant minor constituents as disseminated euhedra, 0.1 - 0.4mm in size.

Limonite forms irregular granules, 0.1 - 0.5mm, disseminated throughout and concentrated particularly with the more muscovitic laminae. It also occurs in a system of parallel veinlets oblique to the foliation.

103X (H-4 143.8 m) QUARTZ-SERICITE SCHIST

Estimated mode

Quartz	46
Sericite	46
Rutile	2
Tourmaline	2
Apatite	1
Zircon) Sphene)	1
Opaques	2

This rock is a familiar type in the suite, consisting of various proportions of sericite and quartz forming laminae on a scale of 2 - 10mm. The quartz occurs as grains, 0.1 - 0.4mm, showing highly variable degrees of grain elongation; it is more or less equidimensional in the more quartzitic laminae and some coarse segregations which may represent low-pressure areas in fold crests, and strongly elongated in the dominantly sericitic layers, which appear sometimes to be the loci of intense shearing.

The nature of the laminae ranges from close-packed quartz grains with interstitial sericite flakes to felted sericite containing discontinuous lines of small flattened quartz grains.

The more sericitic layers have disseminated rutile needles and tourmaline prisms, 0.05 - 0.2mm. These are generally elongated parallel to the banding and are strongly concentrated in lines marking the axes of a strong crumpling oblique to the foliation. They can often be seen following around the closures of microfolds.

Limonite occurs as scattered pseudomorphs (0.2 - 1.0mm) after pyrite (?)

This rock exhibits complex deformation in a number of directions.

104X (H-4 157.8 m) QUARTZITE

Estimated mode

Quartz	74
Biotite	6
Chlorite	8
Muscovite	3
Apatite	5
Epidote	1
Limonite	3

This rock consists of an anhedral mosaic of quartz, 0.2 - 0.5mm. Margins are locally crenulate. Grain elongation is just enough to define a structural grain.

Biotite (dark brown) and chlorite form ragged shreds showing a rough preferred orientation but insufficiently abundant to produce a foliation.

Biotite predominates in some parts, chlorite in others; there is no indication that one is forming from the other.

Apatite is unusually abundant, forming clusters and strings of subhedral grains, 0.1 - 0.3mm.

A single 2mm concordant micaceous lens occurs. It is composed of muscovite, chlorite and ovoid to subhedral granular clusters and porphyroblastic masses of epidote. Intergranular limonite is associated with this lens and its margins.

105X (H-4 165.8 m) APATITE QUARTZITE (?)

Estimated mode

Quartz	82
Apatite	10
Muscovite	5
Limonite	3

This is a quartz-rich rock of rather peculiar texture and composition.

The quartz shows a huge range of grain size (0.2 - 4.0mm) and forms an anhedral mosaic of strongly strained grains with strongly sutured boundaries. The grains show a weak but perceptible preferred orientation. There are sparse tiny interstitial muscovite flakes.

Apatite occurs as clusters of subhedral grains, 0.1 - 0.2mm, sometimes coalescing to form large, sieved patches. Sometimes the concentrations of apatite granules form cuspate streaks interstitial to quartz megacrysts. In this form the apatite is often intergrown with flaky sericite.

Limonite forms scattered irregular patches and intergranular films, sometimes associated with the apatite/sericite wisps.

In some respects this rock has more the texture of vein quartz than a quartzite.

106X (H-4 174.3 m) SCHISTOSE BIOTITE LAMINITE

Estimated mode

Quartz	50
Biotite	30
Muscovite	13
Limonite) Opaques)	7
Tourmaline	trace

This fine-grained rock exhibits a remarkable texture of minutely interlaminated quartz and biotite on a varve-like scale of c. 0.2mm, which has been closely corrugated on axes perpendicular to the lamination causing breakage of the quartz layers into small block-like segments.

The dislocated lines of quartz grains are angular, flattened, and in the size range 0.05 - 0.15mm.

The micas between the quartz grains are a mixture of biotite and muscovite.

Irregular shaped grains of opaques and/or limonite are disseminated throughout. Limonite staining emphasises the crinkled foliation and the close spaced perpendicular cleavage.

At one end of the slide there is an abrupt mineralogical change marked by a single crenulated but unbroken line of quartz grains, 0.2 - 0.4mm. Thereafter the rock changes to quartz-muscovite instead of quartz biotite, and is intensely pervaded by limonite. This persists for about 5mm, then the rock reverts to quartz biotite again. This limonitised muscovite material may be an alteration zone associated with a concordant quartz veinlet.

107X (H-4 188.6 m) QUARTZITE

Estimated mode

Quartz	85
Muscovite	10
Apatite	3
Tourmaline	1
Chlorite	1
Limonite	trace
Rutile	trace

This rock consists of a simple polygonal mosaic of quartz, 0.1 - 0.4mm. Boundaries are simple and there is essentially no grain elongation. Muscovite forms sparse small flakes, 0.05 - 0.2mm, in the grain boundaries; it forms a discontinuous network rather than a foliation.

Apatite is rather widely distributed as small euhedra, 0.1 - 0.2mm. Tourmaline is a less abundant accessory.

Limonite occurs as small disseminated grains.

The rock is traversed by a thin discontinuous sericitic shear (0.1 - 0.5mm thick), strongly enriched in tourmaline, apatite, rutile and sphene, and by a hair-line fracture in a different direction along which are developed intermittent rosettes of chlorite.

108X (H-4 226.3 m) QUARTZITE

Estimated mode

Quartz	72
Muscovite	20
Apatite	4
Tourmaline	2
Rutile	1
Limonite	1

This is a generally similar rock to 107X but has a little more mica and quartz grain elongation which combine to define a weak structural grain.

The quartz is a mosaic of grains, 0.1 - 0.5mm. The muscovite is quite dispersed and is developed as scrappy flakes in only a proportion of the quartz grain boundaries. It also forms rather equidimensional felted patches of sericite which appear to have replaced certain grains in the mosaic (probably an original minor component of feldspar).

Disseminated apatite is quite prominent, sometimes forming small clusters. Tourmaline is a less abundant accessory.

The slide has an 0.5mm concordant lamina of muscovite across the middle and a thicker one at one end. These layers (like the one in 107X) contain abundant disseminated rutile with tourmaline, zircon and limonite.

109X (H-5 67.7 m) CALC SCHIST

Estimated mode

Calcite	70
Quartz	18
Muscovite	7
Chlorite	2
Rutile) Sub-opaque) dust)	2
Opaques	1

This rock is composed dominantly of carbonate, showing fine banding (on a scale of 1 - 2mm) of different grain sizes and proportions of intergrown quartz and muscovite.

Some types of layers are:

Calcite as mosaics of elongate grains, 0.2 - 0.5mm, containing c. 20% quartz as angular individuals or small lenticular aggregates -

Laminae and discontinuous lenses of mosaic quartz -

Narrow, very fine-grained, intensely sericitic schlieren, often with abundant dark dusty inclusions of rutile -

Very fine-grained mosaics of platy (sheared) carbonate without quartz -

Laminae composed of long plates of muscovite with intergrown chlorite and extremely elongated platy quartz grains.

The whole rock shows strong deformation. The sericitic and, to some extent, the quartzose layers show micro scale isoclinal folding, parallel to the compositional banding, with shearing and attenuation of limbs and thickening of crests (including the mobilisation of quartz into coarse blobs.) Fold closures are often apparent from the disposition of lines of fine-grained inclusions.

110X (H-5 86.2 m) CALCITE-QUARTZ VEIN

Estimated mode

Calcite	73
Quartz	25
Muscovite	2

This is a very coarse intergrowth of carbonate and quartz.

The calcite shows great variation in grain size. One end of the slide is a granular mosaic on the scale 0.5 - 2.0mm. This abuts a zone of coarse crystalline plates of 1cm or more with patches of strongly strained quartz in the same size range.

At the quartz/carbonate contacts there are minor replacement and mutual inclusion effects (rounded small blobs of quartz in the massive carbonate, vein-like apophyses of quartz in the carbonate and frilled, interpenetrating contacts).

Muscovite occurs as occasional flakes on quartz and carbonate grain boundaries.

111X (H-5 116.4 m) CARBONACEOUS QUARTZ-CALCITE SCHIST

Estimated mode

Quartz	40
Dolomite	22
Siderite	5
Black opaque material	25
Muscovite	5
Pyrite	3

This is a chaotic-textured rock composed of crudely banded intergrowths of quartz and carbonate containing close spaced, crumpled laminae of black opaque material paralleling the main compositional banding.

Most of the quartz and carbonate are in the size range 0.1 - 0.4mm, but there are often rapid local changes to coarse lenticular masses composed of grains 1mm or more.

The fine-grained black streaks define a layering corrugated by folding along axes approximately normal to the layering.

Muscovite forms scattered small flakes throughout.

Pyrite occurs as disseminated euhedra, 0.5 - 2.0mm, especially in the coarser quartz or carbonate segregations.

The black opaque material is granular on a scale of 1 - 10 microns and includes a proportion of tiny rutile needles. It is assumed to be dominantly carbonaceous in character.

112X (H-5 254.0 m) SULFIDE-BEARING PHYLLONITE

Estimated mode

Sericite	47
Quartz	16
Chlorite	4
Carbonate	4
Opaque & sub-opaque dust	3
Sulfides	26

This slide consists of two distinct components:

i) a very fine-grained sericitic schist
ii) a coarse granular quartz with pyrite

Component (i) is a very fine-grained aggregate of felted sericite. It contains occasional thin discontinuous laminae and augen of quartz, and numerous sub-parallel dark wisps of fine-grained dusty inclusions. These show complex, anastomosing, lenticular, phyllonitic structures indicating complex drag folding and shearing. Axes of crumpling oblique to the main foliation define a strong cleavage.

Component (ii) forms the central part of the slide. It forms folded bands and dislocated pods of non-oriented mosaic quartz, 0.2 - 0.5mm, with local patches of carbonate, and muscovite and chlorite as random prisms and mesh-like aggregates. It contains intergrown streaks and layers of the sericitic schist which describes tight folds around noses of the coarse mosaic, which appears to have undergone mobilisation and boudinage.

Sulfides are a prominent constituent of component (ii). They consist of pyrite euhedra, 0.5 - 2.0mm, with associated minor sphalerite. Irregular patches of opaques (sometimes with included remnants of quartz/carbonate) also occur as inclusions in the sericite schist.

APPENDIX "I" ii

Harris
EXPLORATION SERVICES

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Petrographic Study of Surface Samples from the Meister Property, Y.T.

Samples:

This report refers to 20 samples from surface exposures at the Meister Property, Y.T., submitted for petrographic study.

Samples are numbered as follows:

Sample No	Slide No	Sample No	Slide No
1	176X	11	186X
2	177X	12	187X
3	178X	13	188X
4	179X	14	189X
5	180X	15	190X
6	181X	16	191X
7	182X	17	192X
8	183X	18	193X
9	184X	19	194X
10	185X	20	195X

Sample 15 is sulfidic and was prepared as a polished thin section; the remainder contained negligible amounts of opaque minerals and were prepared as normal thin sections.

Summary:

This suite shows many similarities to the drill core suite previously examined from this property (my report 83-19 of October 28th).

It is composed dominantly of metasedimentary rocks, commonly of carbonate-rich composition.

Samples 16 and 17 are crystalline dolomites (comparable to sample 100X in the previous suite) and sample 4 is a partially dolomitised marble (similar to 83X and 97X). Samples 2 and 9 are foliated impure marbles containing dolomite as a minor component with the dominant calcite; rocks of similar composition from the previous suite are 87X and 91X.

Sample 20 is a coarse-grained, sparry calcite which appears more like vein material than a metasediment.

All the rocks with carbonate as a major constituent were checked by XRD to establish carbonate composition. Calcite and dolomite were the only components detected (c.f. the presence of siderite in some of the drill core suite).

Sample 18 is a highly distinctive (and somewhat enigmatic) rock type not seen in the previous suite. It is a calcitic rock of metasedimentary aspect with abundant intergrown plagioclase, K-feldspar and quartz.

Samples 3, 5 and 8 are calcareous schists, often strongly limonitic and showing well-defined schistosity. Comparable rocks from the previous suite are 93X and 95X.

Metasediments of more pelitic type are represented by samples 1 and 14. They are chlorite-rich schists with abundant post-deformational chloritoid. They compare with a number of the chloritoid-bearing rocks from the previous suite - perhaps most closely to 80X (most of the others being sericitic rather than chloritic in character).

Sample 7 is also of pelitic composition, being a quartz-sericite schist. It possesses distinctive and somewhat atypical textural features.

Only one of the present suite is of quartzitic type. The rock in question is sample 19, which is very similar in type to 104X and others from Hole 4 in the drill core suite. Its relatively high content of accessory apatite is a distinctive correlative feature.

A prominent characteristic of the previous suite was the ferruginous character of many of the metasediments, as manifested by the prevalence of dispersed limonite. The present suite shows this characteristic, though to a somewhat more restricted degree. Samples 2, 3, 4, 8 and 9 are typical cases.

The strong deformation, expressed by quartz and carbonate grain elongation, crumpling of schistosity and development of axial plane cleavage, noted in many of the drill core suite, is also seen here (e.g. in samples 2, 3, 5, 7, 8 and 9). Overall the content of micaceous minerals tends to be lower than in the previous suite, and the expression of micro-deformational features correspondingly somewhat less striking.

Two samples from the present suite are of high-grade mineralised material. They are extensively oxidised and their detailed mineralogy, as regards the secondary products, remains undefined. Galena is the dominant economic sulfide and sphalerite is noticeably absent. The galena(in the one slide in which it was studied) appears mineralogically homogenous; Ag values presumably are held in solid solution. Minor amounts of Ag species no doubt exist also within the oxidised minerals.

A somewhat unexpected feature is the presence of minor plagioclase in the gangue component of sample 15.

The remaining four rocks of the suite (nos 10 - 13) are quite distinct from the metasediments previously discussed. No 10 is undoubtedly an igneous rock; it shows strong deuteric alteration but still retains an unmistakable diabasic texture.

The other three rocks share some compositional similarities with No. 10; however, they are texturally quite unlike it and their origin remains obscure. They are all characterised by a high content of very fine-grained felsitic chert-like plagioclase. In No. 12 this alternates in lensoid fashion with a mafic component consisting of chlorite, biotite, hornblende and sphene. This rock could well be a metamorphosed fine-grained volcanic.

Sample 11 has a generally similar mineralogy but has clearly been affected extensively by metasomatic processes. Its content of accessory tourmaline is notable.

Sample 13 is distinctive in its high content of fine-grained biotite and its hornfelsic texture (c.f. nos 106X and 85X from the drill core suite). Macroscopically it exhibits a faint lamination which suggests the possibility that it was once a fine-grained ashy tuff.

Your knowledge of field relationships may enable you to place a better interpretation on the nature of these four rocks.

J F Harris

J.F. Harris Ph.D.

November 30th, 1983

Sample 1 CHLORITOID SCHIST

Estimated mode

Quartz	25
Calcite	25
Chlorite	24
Muscovite	10
Chloritoid	12
Sphene	4

This rock consists of a weakly banded alternation of various proportions of chlorite, carbonate, quartz and muscovite. Metamorphic segregation has not reached the stage of developing monomineralic layers, and crystallographic orientation, even of the flaky minerals, is imperfect. However, there is a distinguishable parallelism of texture.

Quartz occurs as anhedral grains or patches of granular mosaic on the scale 0.2 - 0.5mm. It shows a weak flattening and preferred orientation, emphasised by the parallelism of intergranular flakes of chlorite.

The chlorite also forms more concentrated, felted bands or lenses containing individual grains and patches of quartz and carbonate.

The carbonate forms elongate lenses of grains in the 0.5 - 2.0mm range, and also smaller grains intergrown with the other constituents. A proportion (approximately 25%) shows strong limonitic impregnation of cleavages. The possibility that this may be a separate carbonate species is refuted by an XRD check which shows only calcite.

Muscovite occurs both as elongate schlieren associated with chlorite and as less well-oriented clusters and pockets.

Sphene is noticeably abundant. It forms strings of subhedral, often elongate, grains, 0.1 - 0.4mm, paralleling the mineralogic banding; it is particularly associated with the chlorite and chloritoid.

Chloritoid is a prominent constituent of this rock. It forms abundant ragged-ended poikiloblastic prisms reaching several cm. in size. These are full of inclusions, dominantly of quartz, carbonate and sphene. The chloritoid crystals are randomly oriented with respect to the textural grain.

The slide includes a vein-like mass of granular quartz with accessory carbonate which cuts obliquely across the banding. It is notable, however, that the grain orientation of the quartz and interstitial chlorite within this body is co-linear with the rest of the rock. Perhaps this was a pre-metamorphic vein.

Sample 2 SCHISTOSE IMPURE MARBLE

Estimated mode

Calcite	60
Dolomite	15
Quartz	15
Sericite	5
Limonite	4
Sub-opaque dust	1

This rock consists of alternating (2 - 5mm) laminae of strongly foliated, fine-grained carbonate and thinner bands and lenses of coarser, non-schistose quartz/carbonate intergrowths.

The foliated carbonate consists of parallel intergrowths of intensely flattened grains, 0.2 - 0.5mm long and about one-fifth as thick. Approximately 30% of this fine-grained carbonate is a brown, strongly limonite-stained variety. This forms elongate streaks and networks paralleling the strong foliation and appears to contain a proportion of very fine-grained and scaly sericite. XRD analysis shows the carbonate in this rock to be dominantly calcite with subsidiary dolomite. The brown carbonate is almost certainly the dolomite.

The coarser siliceous interlayers are composed of quartz, 0.1 - 0.5mm, showing virtually no grain elongation, intergrown with carbonate, 0.2 - 1.0mm, which forms lenticular clumps and interstitial grains. Sparse interstitial, sub-oriented flakes of sericite are also present.

Occasional clumps of small limonitized opaques are seen. Wisps of micron-sized sub-opaque dust occur throughout: these appear to be largely rutile.

Sample 3 FERRUGINOUS CALC-SCHIST

Estimated mode

Calcite	60
Limonite (?)	18
Miscovite/sericite	10
Quartz	8
Sub-opaque dust	4

Carbonate occurs as an oriented mosaic of flattened, elongate grains 0.1 - 0.4mm in length. It is a brown variety, coloured by a diffuse limonite staining throughout. In addition, more intense brown staining occurs as abundant strings and elongate clumps of granules, c. 0.05mm in size, distributed throughout the carbonate mosaic. These do not appear to be a separate mineralogical phase but merely centres of intense fluffy brown staining superimposed on the carbonate. This observation is confirmed by XRD analysis, which shows calcite to be the only carbonate present. A proportion of very fine-grained sericite and possibly clays are associated with the dark brown material, as are wisps of dusty, micron-sized sub-opaques (dominantly rutile).

Muscovite forms well-developed parallel flakes and laminae throughout, bestowing a definite schistosity.

Quartz is a minor component, occurring as discontinuous laminae and small augen, sometimes with associated coarser, non-ferruginous carbonate and muscovite.

The schistosity shows open folding, sometimes with incipient shearing on fold limbs.

This rock closely resembles sample 2 but is more strongly deformed.

Sample 4 LIMONITIZED DOLOMITIC MARBLE

Estimated mode

Calcite	50
Dolomite	40
Limonite	10

This rock exhibits features very similar to the dolomitized marbles identified in the previous suite (of drill-core specimens).

It consists of an anhedral mosaic of slightly elongated calcite grains, 0.2 - 0.5mm, superimposed on which is a much finer-grained phase (dolomite) of granules 0.02 - 0.1mm in size as elongate clumps, streaks and intergranular networks.

The rock is extensively impregnated by limonite. This has no particular affinity for one or the other carbonate species and appears to be of introduced origin. It is associated with a system of cross-cutting carbonate veinlets and also fills fractures and impregnates grain boundaries and cleavages in its own right. Locally it forms dense, diffuse-margined replacement patches.

Sample 5 IMPURE CALC-SCHIST

Estimated mode

Calcite	55
Quartz	20
Sericite	15
Chlorite	5
Sub-opaque dust	3
Opaques	2

This is a strongly deformed rock which probably consisted originally of finely interlaminated carbonate, siltstone and argillite layers.

It consists of crumpled bands of essentially pure carbonate (as a mosaic of grains 0.2 - 0.5mm) and thinner inter-layers consisting of intergrown quartz, sericite, chlorite and fine-grained platy carbonate in various proportions. The more sericite-rich layers show a strongly developed foliation, emphasized by dark, wispy sub-opaque dusty material. XRD analysis shows calcite to be the only carbonate present.

The foliaceous laminae show intense crumpling, with the development of sharp folds, often with sheared-out limbs. Locally a strong axial-plane cleavage is developed, approximately perpendicular to the compositional layering.

The intervening carbonate and thin quartzose layers also show the small-scale crumpling, but exhibit comparatively little grain deformation - except locally where stretching of beds and shearing has occurred on the limbs of some of the micro-folds.

Some clumps of coarser quartz and carbonate appear to be the result of local flowage and remobilisation.

Sample 6 OXIDIZED Pb ORE

Estimated mode

Oxidized Pb (and Zn?) minerals	80
Limonite	15
Quartz	4
Sericite	1

This sample is a Pb-rich sulfide ore, now almost completely oxidized to various secondary products. A little remnant galena is visible in the hand specimen but does not occur in the slide.

The mineralogy is not readily decipherable by optical means alone. It appears to consist dominantly of a sub-opaque carbonate, thought to be cerussite, probably with some associated smithsonite. These minerals show the typical crustified, platy, cellular and pseudo-breccia textures of secondary Pb-Zn ores. Limonite, ranging in colour from ruby red through golden brown to a muddy olive brown, impregnates throughout as concretionary blobs and intergranular permeations.

Quartz and sericite occur as scattered clumps of small anhedral grains and swarms of tiny flakes.

Sample 7 QUARTZ-SERICITE SCHIST

Estimated mode

Quartz	50
Sericite	45
Rutile)	3
Opaques)	
Tourmaline	2
Monazite	trace

This rock consists of somewhat anastomosing dark (sericite-rich) bands in a predominantly light (quartzitic) rock.

Though simple in mineralogy, it shows unusual textural features.

The quartzose layers consist of more or less equidimensional anhedral grains of quartz, 0.1 - 0.4mm in size, with more or less abundant intergranular, very fine-grained, scaly, non-oriented sericite. The sericite forms a semi-continuous network surrounding the quartz grains and locally is sufficiently abundant as to form a matrix in which the individual quartz grains "float". The complete lack of any preferred orientation of either quartz grains or sericite, and the relative lack of contact of the quartz grains, are striking and anomalous features, atypical of both sedimentary and metamorphic fabrics.

The interlayered, dark component consists of a felted aggregate of extremely fine-grained sericite in which the foliation is minutely crumpled, producing a strong, close-spaced cleavage oblique to the general banding. A high content of small elongate rutile needles and opaques emphasises the crumpled foliation and cleavage (shear) planes.

The sericitic component forms sub-parallel, but somewhat ramifying bands, often cutting through, or including islands of, the quartzose material. At the contacts the fine-grained interstitial sericite of the quartzose bands appears gradational to the concentrated sericite of the dark bands, the latter differing only in their intense deformation and a total lack of quartz.

Small stumpy grains of tourmaline (to 0.2mm) and less abundant monazite are disseminated throughout, particularly in the quartzose bands.

Sample 8 FERRUGINOUS CALC-SCHIST

Estimated mode

Calcite	65
Muscovite/Sericite	15
Quartz	10
Chlorite	5
Limonite	5

This is a finely banded rock composed dominantly of carbonate. Grain size variations in the carbonate and variations in the proportions of intergrown quartz and micas define the banding. Calcite is the only carbonate species present.

Grain flattening is pronounced. Much of the slide consists of brown, pervasively limonitic carbonate as parallel, platy grains, 0.4 - 1.0mm long and 0.1 - 0.2mm thick, with long intergranular flakes of muscovite and/or chlorite. Quartz occurs in this material as scattered individuals or short strings or augen of elongate grains, 0.2 - 0.5mm.

One end of the slide is much finer-grained and contains a higher content (c. 50%) of flaky minerals. The strongly developed schistosity shows a gentle rippling.

Throughout the rock, but especially in the fine-grained sericite-rich bands, carbonate forms sub-rounded glomero-porphyroblasts, 0.5 - 2.0mm in size. These are made prominent by virtue of a high content of dark-brown limonite in cleavages and grain boundaries. Where they occur in the coarser, silty bands, these porphyroblasts are sometimes associated with augen-like segregations of quartz.

Sample 9

LAMINATED IMPURE MARBLE

Estimated mode

Calcite	70
Dolomite	10
Quartz	10
Sericite	7
Limonite)	3
Opaques)	

This rock consists dominantly of a fine-grained granular mosaic of carbonate. A finely laminated appearance is produced by slight variations in grain size and content of sericite and limonite. These banded variations are on the scale of 1.0mm or so, and consist of clear carbonate c. 0.2mm in grain size alternating with finer-grained carbonate, 0.05 - 0.1mm, containing relatively abundant fine-grained sericite and micron-sized intergranular brown opaque material (limonite?).

Quartz occurs throughout as a minor disseminated component - generally as single anhedral grains similar in size to the carbonate. Sericite flakes also occur sparsely distributed throughout. They show little or no preferred orientation and the rock lacks any schistosity, nor does the carbonate show any grain flattening or elongation (except very locally in association with more concentrated sericitic schlieren).

Nevertheless, the rock is strongly deformed, as evidenced by small scale crumpling made clearly visible in the finer-grained laminae by virtue of the intergranular opaque staining. Locally an incipient axial plane cleavage is developed normal to the general layering. Sericite and dusty opaques tend to concentrate in these zones.

The rock contains scattered augen, 1 - 10mm, of coarse carbonate and/or quartz, around which the fine-grained limonitic carbonate layers "flow". These may be boudinaged remnants of concordant veins. A few crystals of pyrite, 0.5 5.0mm, are associated.

The fine-grained limonitic/sericitic carbonate in this rock resembles that in sample 2 (except that it lacks the strong grain flattening) and, like it, is confirmed as dolomite by XRD analysis.

Sample 10 ALTERED DIORITE

Estimated mode

Hornblende	37
Biotite	12
Chlorite	10
Plagioclase	28
Epidote	10
Sericite	3
Opaques	trace

This is an altered mafic-rich igneous rock with diabasic texture.

The major constituents are hornblende, as stumpy subhedral grains, 0.5 - 5.0mm, and interstitial prismatic plagioclase of similar grain size. Both were probably originally more abundant. They are now extensively replaced by alteration products: the hornblende by brown biotite and chlorite, and the plagioclase by epidote and minor sericite.

The biotite could be, in part, of primary origin, but its mode of occurrence suggests that it is largely a deuteric product. Both hornblende and biotite are extensively chloritized. The epidote alteration, though most prominent in the feldspar, also replaces the mafic constituents.

The primary mineralogy of hornblende and plagioclase suggests that the rock be classified as a diorite. Its fine granular character indicates that it may be of hypabyssal intrusive origin.

Sample 11 METASOMATIC ALBITE-EPIDOTE ROCK

Estimated mode

Plagioclase	40
Epidote	24
Hornblende	14
Chlorite	5
Carbonate	2
Sphene	3
Quartz	3
Biotite	2
Tourmaline	2
K-feldspar	5

The dominant component in this rock is plagioclase (probably albite) as an extremely fine-grained, cherty-textured felsitic aggregate, in the size range 0.01 - 0.1mm. This contains abundant disseminated epidote as granules 0.02 - 0.05mm, frequently coalescing to form elongate strings and irregular clumps. The former define a striking parallel pattern possibly related to micro-fracturing. Epidote granules are also locally distributed as curving, parallel bands. Also present in the felsite as finely disseminated tiny grains, are chlorite, hornblende and - a notable feature - tourmaline. Locally small irregular splashes of carbonate are developed.

The other main component of the rock is a more coarsely crystalline assemblage of epidote, plagioclase, hornblende, chlorite and sphene, as intergrowths of subhedral grains, 0.2 - 1.0mm in size. This forms more or less well-defined branching veinlike bodies. The poikiloblastic character of some of the crystals (sieved with felsite inclusions) and the gradational boundaries with the surrounding felsite and the disseminated epidote etc. within it, suggest a replacement origin.*

In fact, the whole rock has a metasomatic aspect. Although the mineralogy is compatible with that of an altered mafic igneous rock, none of the textures are typical of normal igneous, sedimentary or metamorphic processes.

*K-feldspar is another component of this phase, particularly at one end of the slide where the vein-like bodies are composed of K-spar, carbonate, amphibole, quartz and sphene - apparently without epidote.

Sample 12 GREENSTONE

Estimated mode

Plagioclase	35
Quartz	5
Hornblende	10
Chlorite	25
Biotite	5
Epidote	4
Carbonate	8
Sphene	8
Apatite	trace

This is another rock with the mineralogy of an altered mafic igneous rock.

It consists of felsitic plagioclase (0.02 - 0.05mm) with intergrown coarser carbonate and quartz (0.2 - 0.4mm) in streaky, lensoid alternation with a dark, mafic-rich component consisting of chlorite and biotite with scattered (remnant?) hornblende and abundant granular sphene and epidote.

The mafic areas have abundant inclusions of felsite and the intervening quartzo-feldspathic lenses often contain dispersed crystals of the mafics.

This is a non-foliated rock , but a general orientation of the flaky minerals and prismatic hornblende, parallel to the elongate dark/light lensy banding, defines a distinct structural grain.

This is a fine-grained greenstone (altered amphibolite?) of unknown origin. The lack of foliation perhaps favours an igneous rather than sedimentary origin.

Sample 13 ALTERED TUFF? HORNFELS.

Estimated mode

Biotite	35
Amphibole	10
Sericite	20
Plagioclase	30
Sphene) Epidote)	2
Opaques) Sub-opaques)	3
K-feldspar	?

This is a very fine-grained rock consisting of a felsitic aggregate of plagioclase (grain size C. 0.02mm) set with abundant, slightly coarser individual anhedral grains up to 0.1mm. This is heavily impregnated with fine-grained biotite, sericite and amphibole which form patches and networks throughout the felsite on a scale of 0.5 - 1.0mm, with darker (biotite-rich) areas surrounding lighter (sericite-rich) ones, sometimes with streaks and patches of unaltered felsite. The individual grain size of the micas and amphiboles is generally 0.02 - 0.05mm; the crystals are blocky or irregularly felted and there is no preferred orientation whatever. Tiny sub-opaque granules - frequently of acicular form - are disseminated throughout the biotitized felsite.

The rock is cut by plagioclase veinlets with accessory sphene and epidote, and by limonite-filled fractures. The former are conformable to a faint banding produced by variations in the intensity and coarseness of the biotitization.

The texture of the felsitic matrix, its feldspathic composition, the cryptic fine lamination and the abundance of biotite in this rock, suggest that it may be an altered tuff. The lack of schistosity or segregation banding suggests metamorphism of hornfelsic rather than regional or dislocation type.

The rock takes a diffuse cobaltinitrite stain, suggesting that the felsitic matrix may contain a proportion of K-feldspar.

Sample 14 — CHLORITE SCHIST WITH CHLORITOID

Estimated mode

Quartz	25
Chlorite	33
Chloritoid	20
Muscovite	9
Carbonate	10
Rutile	3

This rock consists of a weakly foliated intergrowth of chlorite and quartz with accessory carbonate. The quartz is as grains 0.05 - 0.2mm and the carbonate a little coarser. They show a weak parallel elongation emphasised by the orientation of the network of interstitial chlorite. Locally chlorite is the dominant constituent and forms a felted matrix set with individual quartz grains.

Overall this rock shows a weak schistosity and poorly-developed mineralogical banding.

Superimposed on this fabric are abundant, large, randomly oriented, prismatic porphyroblasts of chloritoid, 1 - 3mm in size. These are extensively replaced by coarse muscovite which, in some cases, forms total pseudomorphs of chloritoid. Some patches of coarse carbonate are also associated with the chloritoid/muscovite porphyroblasts.

Rutile forms rather abundant disseminated clusters of euhedral, often skeletal, grains 0.1 - 0.5mm in size.

Sample 15 PARTIALLY OXIDIZED GALENA

Estimated mode

Gangue	Quartz
	Sericite
	Carbonate
	Plagioclase
Opaques	Limonite
	Galena
	Pyrite

This slide consists of remnants of galena set in a field of limonite and gangue minerals. The latter are dominantly quartz, but include lesser amounts of sericite, carbonate and plagioclase. These occur as scattered irregular pockets in the limonitized sulfides.

Sulfides are dominantly galena, with minor pyrite (often as brecciated, limonitized euhedra), and traces of arsenopyrite. The galena appears homogenous, without inclusions or exsolved phases. Sphalerite is conspicuously rare.

Sample 16 DOLOMITE MARBLE

Estimated mode

Dolomite	80
Calcite	4
Quartz	10
Chlorite	3
Sericite	1
Sphene) Rutile)	1
Opaques	1

This rock consists essentially of an anhedral, sutured-margined aggregate of carbonate. This shows rather variable grain size from 0.2 to 1.0mm. The smaller grains frequently form intergranular networks to the larger ones. The mosaic includes scattered individual grains of quartz of similar grain size.

Scattered chlorite and sericite occur as intergranular flakes and small interstitial pockets.

Sphene occurs as scattered tiny high relief subhedra; rutile as acicular clusters; and opaques as small grains of limonitised pyrite.

This rock lacks foliation or layering on the thin section scale. It appears totally recrystallised but undeformed. XRD analysis indicates dolomite as by far the predominant constituent, though a very small calcite peak is also present.

Sample 17 DOLOMITE MARBLE

Estimated mode

Dolomite	80
Calcite	8
Quartz	5
Chlorite	5
Muscovite	2

This rock is of similar appearance in thin section to #16, and XRD analysis confirms its composition as largely dolomite. The carbonate tends to be slightly coarser overall and includes some large fretted-margined crystals up to 3mm in size (which have apparently grown by grain aggregation).

The accessory quartz is generally finer-grained than the carbonate and occurs as individual grains or interstitial pockets.

Chlorite forms rosette-textured pockets as well as random single flakes - which often cross-cut carbonate grain boundaries. Muscovite occurs as small flakes generally independent of the chlorite.

Again this is a totally recrystallized marble showing no foliation or deformation.

Sample 18 FELDSPATHIC MARBLE

Estimated mode

Calcite	48
Plagioclase	20
K-feldspar	10
Quartz	10
Muscovite	10
Opaques) Limonite)	2
Monazite	trace

This rock consists of an evenly fine-grained polygonal mosaic of carbonate, 0.1 - 0,3mm, with a high content of feldspars and lesser quartz. These occur as individual anhedral grains similar in size to the carbonate mosaic and, seemingly, co-genetic with it.

The relative proportions of K-feldspar, plagioclase and quartz are hard to estimate. The feldspars are totally clear and unaltered and, except when obviously twinned (which is not always the case), look just like quartz. Cobaltinitrite staining of the cut-off chip aids somewhat (although the grains concerned are very tiny), and is the basis of the estimated mode.

Muscovite occurs as small, rather stubby, individual flakes 0.1 - 0.2mm in size, randomly distributed interstitially to the carbonate/feldspar/quartz mosaic.

Small disseminated grains of opaques - principally limonite - occur. Intergranular limonite staining of the carbonate is widespread.

Traces of monazite (?) occur as occasional small stumpy prismatic grains.

The carbonate mosaic here is distinctly different from that of samples 16 and 17 in that it is a simple, angular, polygonal mosaic without the fretted margins, coarse crystalloblasts and fine intergranule development seen in these rocks. XRD indicates its composition as calcite.

The association of carbonate, feldspars and quartz in apparent equilibrium is a somewhat puzzling one. Texturally this appears to be a recrystallised mosaic and the feldspars to be part of it. Certainly their extreme freshness supports a metamorphic origin. The lack of any of the calc-silicate minerals like garnet, diopside or wollastonite, typical of high-grade metamorphic associations in which feldspars might be expected to have developed from original pelitic components, and the lack of gneissic textures or deformation, suggests that this is a relatively mildly metamorphosed rock.

Perhaps it was an arkosic arenite with calcareous cement, though this would seem a rather unusual rock type.

Sample 19

QUARTZITE

Estimated mode

Quartz	85
Biotite) Chlorite)	8
Apatite	5
Rutile	2
Monazite) Tourmaline)	trace

This rock is composed essentially of quartz, as an anhedral mosaic of somewhat flattened grains, 0.2 - 0.6mm in size. Scrappy, partially chloritized, greenish-brown biotite occurs interstitially, paralleling the quartz crystal elongation but in insufficient amount to produce a schistosity.

Another interstitial constituent (sometimes, but not always, associated with the biotite) is apatite, as tiny euhedra, 0.02 - 0.1mm in size. These occur as individuals and small clusters.

Rutile is disseminated as tiny needles, granules and skeletal euhedra. Traces of accessory monazite and tourmaline occur as small subhedral prisms.

The presence of rather abundant accessory apatite is a distinctive feature which suggests a possible relationship with similar quartzites from Hole H-4 in the drill core suite examined previously.

Sample 20

Estimated mode

Calcite	100
Quartz	trace

This sample is a coarse-grained, smooth-margined aggregate of white, sparry calcite. It consists mainly of anhedral crystals 1 - 5 mm in size, with some megacrysts up to several cm in size.

Traces of quartz occur as a fine-grained interstitial phase: also, one end of the slide shows a thin wisp of finely-granular intergrown quartz and carbonate, apparently with a high content of apatite.

APPENDIX "J"

WEST ZONE TRENCH MAPS

TRENCH RECORD SHEET
MR PROPERTY, YUKON TERRITORY

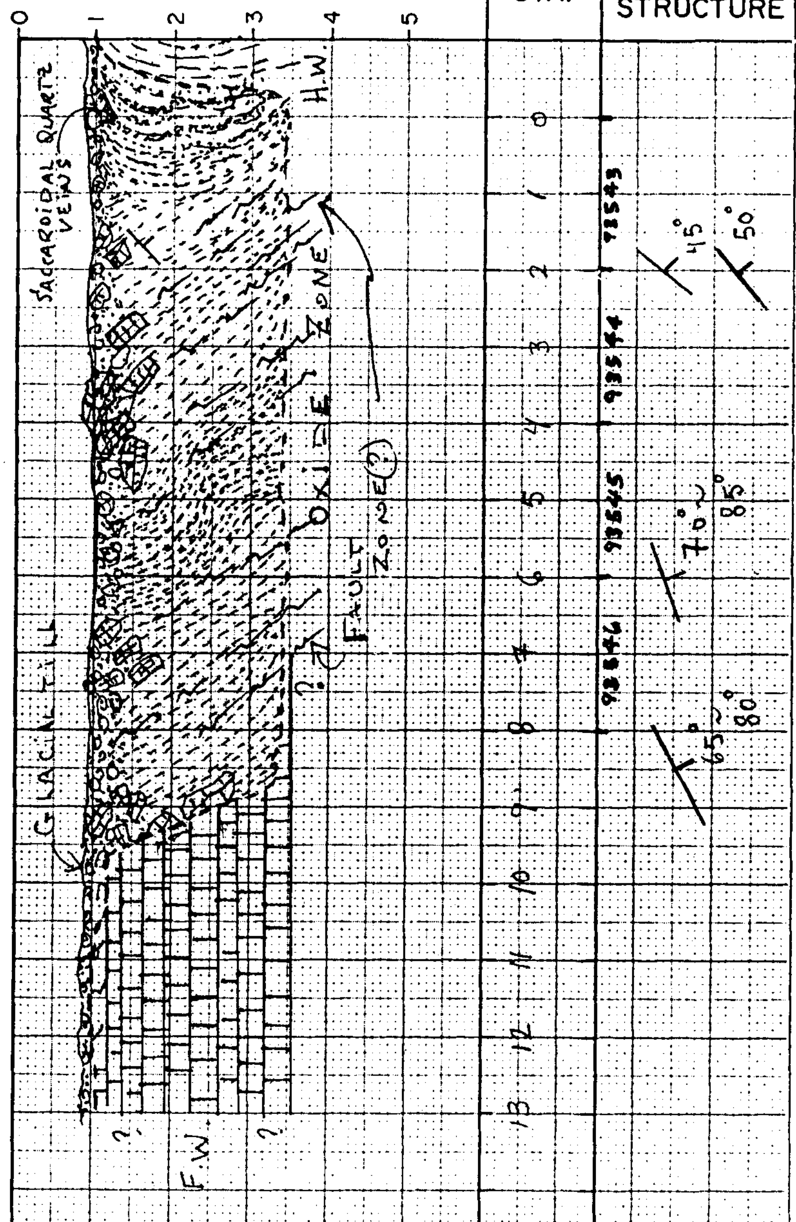
TRENCH No. 1.

PAGE No. 1 of 1

DATE: AUGUST 1983
MAPPED BY: [illegible]. R. Solkoski
S.E. WALL OF TRENCH #1.

ZERO POINT ON GRID: APPROX. 90 METERS S.E. OF TR. #2
NORTHING: 44+15N
EASTING: 29+80E
AZIMUTH: 060°
AV. WIDTH: 2.3M.
LENGTH: 13.0 M.
SCALE: 1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE



DESCRIPTION

The hanging wall consists of "phyllitic" sericitic, biotite? schists, crenulated, with abundant micro folds; "S" and "Z" variety. These highly crenulated, tight folds appear to be the remains of relict bedding masked by foliation and deformation with well developed schistosity.

Several 3cm -5 cm wide saccaroidal quartz veins occur in the H.W.schists.

A 10 cm wide zone of silicic/sericitic quartz may be a minor sericitic schist alteration zone(?) due to metamorphism(?) or fault movements. There appears to be an infilling(?) of carbonate blocks in the glacial clays and till near the H.W. The H.W.schists appear to "fold into" the oxide zone near surface of the trench and "roll" under themselves at depth and then dip away from the oxides at 45-50 degrees. These schists appear not to be mineralized but are limonitic with minor black graphite(?) and minor manganese.

The oxide zone consists of hematite (botryoidal) (hemimorphite(?), limonite, manganese, and all of this fairly well stratified material indicative of relict bedding(?).

With apparent extensive amount of foliation kink banding, numerous "S"/"Z"(?) folds and shearing along probable breccia like blocks of marble(?) within oxide zone, and extensive fault(?) gouge, and alteration of schists near schist-oxide contact; would be indicative of fault zone(?)

The footwall marbles are poorly exposed in the trench, but do impart a very steep dip in contact with the oxides. Abundant manganese coats the exposed marbles.

Looking S.E.

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No. 2

PAGE No. 1 of 1

DATE: AUG 19/83

MAPPED BY: G. L. WESA

S.E WALL OF TR # 2.

ZERO POINT ON GRID: 83m BRG 300° FROM L30+00E 44+85N

NORTHING: 44+85N

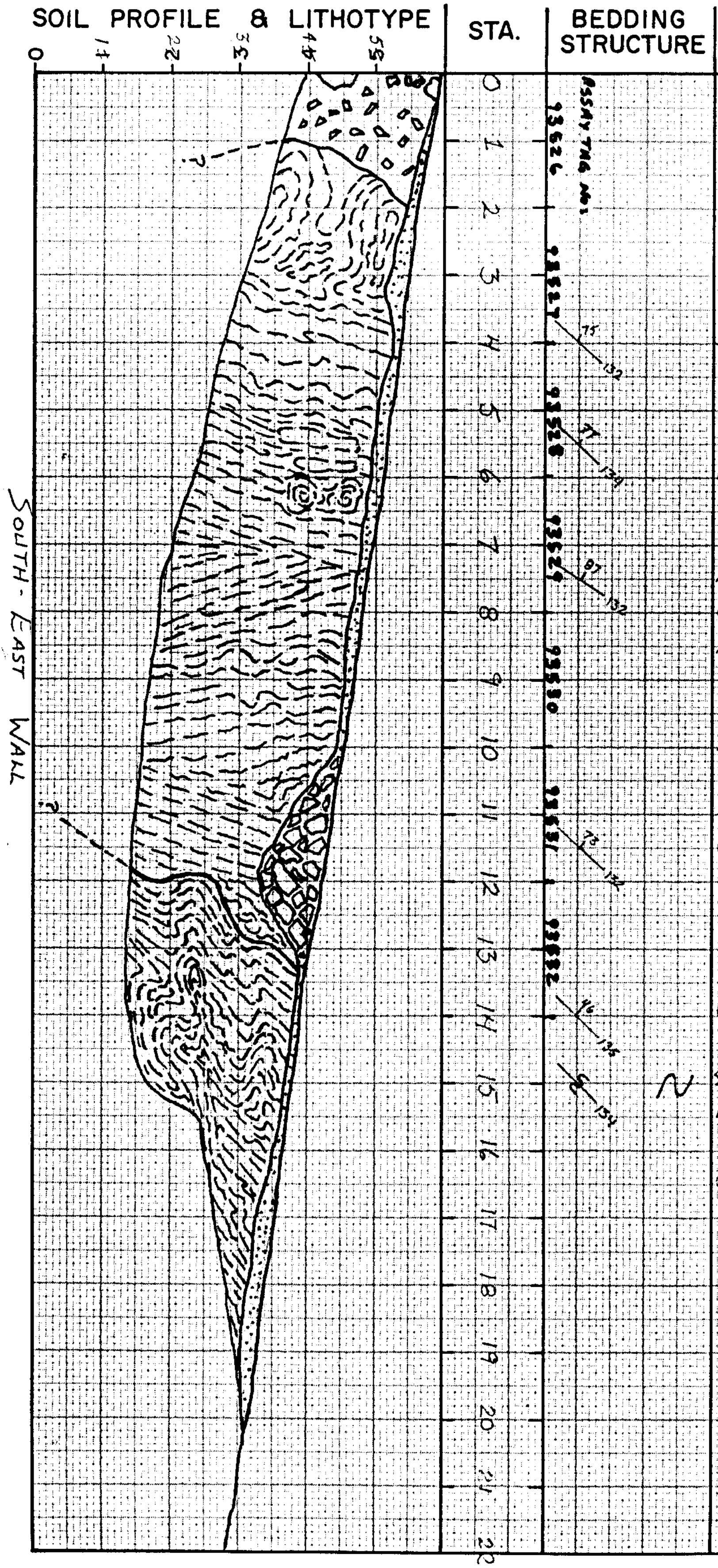
EASTING: 29+17E

AZIMUTH: 062°

AV. WIDTH: 4m - SURFACE 0.8m - OXIDES

LENGTH: 98m

SCALE: 1:100



DESCRIPTION

NORTH END. MAINLY FAULT BRECCIA - MUSC-SERICITE
SCHIST FRAGS IN ORN SERICITIC CLAY MATRIX. Lg
MARBLE BLKS & HEAD OF TR IN CLAY GOUGE.
CLAY GOUGE W/ MINOR OXIDE / RUST STAIN
LIMONITIC CLAY - EXTENSIVE RUST STAINED.
PARTLY SERICITIC. BLK MnO SURF. STAIN
HIGHLY GOSSANOUS CLAY. MINOR Fe-OXIDE IN FORM
OF HEMATITE. NO DEFINEABLE STRUCTURE
Fe-OXIDE (90%), Mn-OXIDE (10%) FAIRLY
GOSSANOUS, MASSIVE + BOTRYOIDAL HEM,
MAINLY BLK MnO STAIN W/ MINOR LIMONITE
ON MASSIVE + BOTRYOIDAL HEM. (MINOR SPEC HEM)
MASSIVE RUST STAINED HEM. (80%)

MASSIVE HEM (70%) + ROTTED, BROKEN LIMONITE
(30%)
HEM + LIMONITE (80%) Mn-OXIDE (20%)

LIMONITE + HEM (70%) Mn-OXIDES (30%)
STRATIFIED W/ MINOR DEFORMATION.
Fe-OXIDES (60%) Mn-OXIDES (40%)
FAIRLY WELL STRATIFIED (NEAR VERTICAL DIPS)
GOSSANOUS HEM (MASSIVE) - 90%. THICK O/B
COVER.
CONTACT OXIDES W/ H. FOLDED + CRENULATED,
FRACTURED SERICITIC MUSC SCHIST
EXTENSIVE ALTRTN OF SCHISTS TO RUSTY ORN
CLAY FAULT CONTACT.
RESIDUAL PATCHES OF WT, SERICITIC MICA
SCHIST IN ORN CLAY. EXTENSIVE DEFORMTN
MAINLY FRAGMENTED MICA - SERICITE
SCHIST IN YELLOW / ORN SILTY, SERICITIC
CLAY MATRIX. MAY CLASSIFY AS SCHIST
BRECCIA RETAINING RELICT BEDDING
STRUCTURE ALTHOUGH EXTENSIVELY
MASKED BY FOLIATION + DEFORMATION

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No. 3

PAGE No. 1 **of** 6

DATE: Aug 17/83

MAPPED BY: G. L. Wesa

NW WALL OF TR #3

ZERO POINT ON GRID: 124m BRG 300° FROM L30+00E 45+80N

NORTHING: 45+80N

EASTING: 28+76E

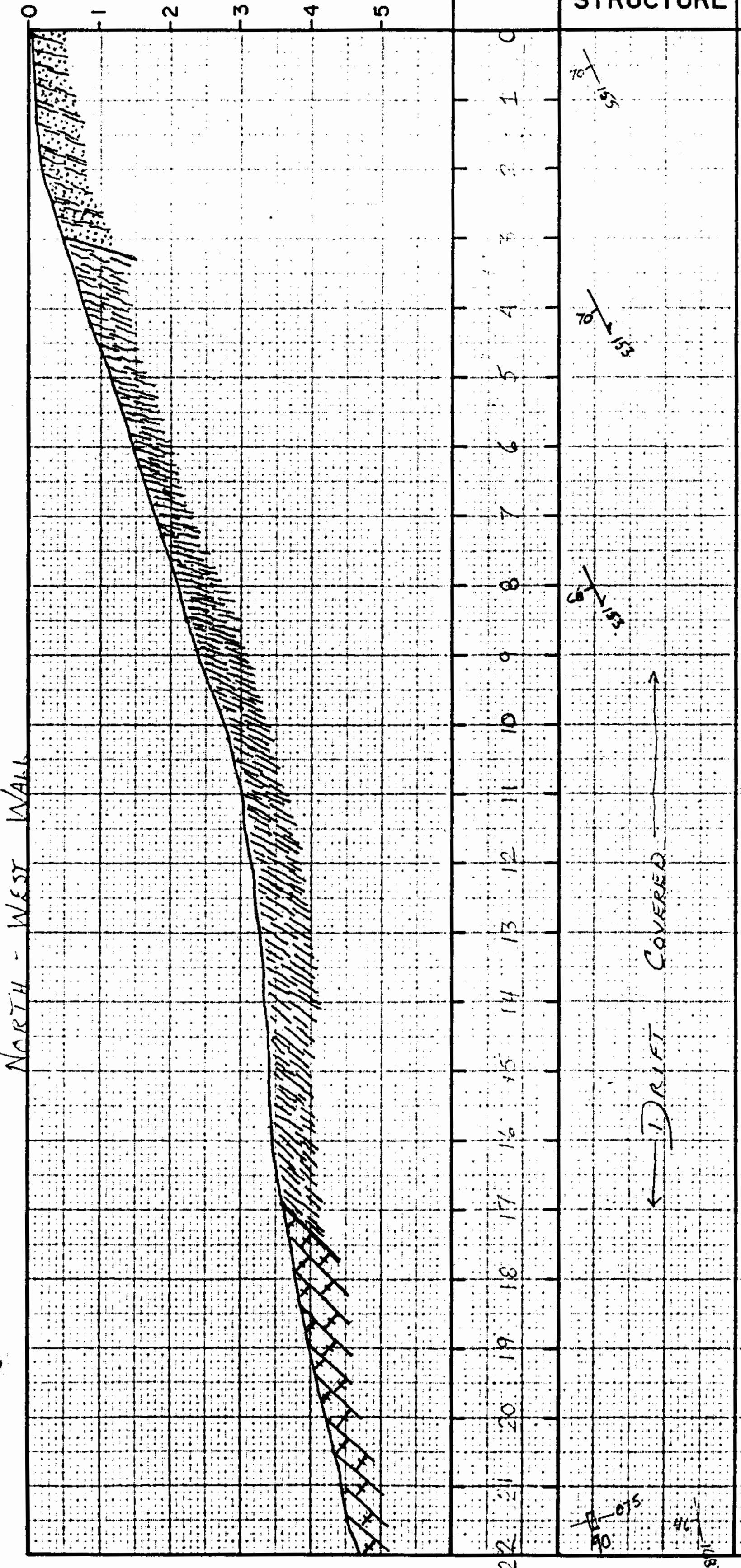
AZIMUTH: 070°

AV. WIDTH: 3.5m-SURFAC

LENGTH: 167m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



UNIT $1E_3$ (LOWER CAMBIAN PHYLLITE, CARBS, SCHIST

[illegible]ITZOSE S.S.: CREAMY, WHITE, BRN, REDDISH-BRN. H, SL[illegible], MED. GRAINED W/ BANDS OF BRN OR RUSTY [illegible]. NARROW PHYLLITE TO SERICITIC PHYLLITE. [illegible] ORIENTATIONS FROM O/C 10m WEST OF TRENCH. BROKEN O/C IN TRENCH.

CONTACT PARTLY OBSCURED BY BROKEN ROCK

CHLORITIC PHYLLITE: PALE GREEN TO GREYISH-GREEN. CONTAINS NARROW SILTY BANDS, WHICH WTH RUSTY ORN.

BADLY BROKEN EXPOSURE - ORIENTATION NOT OBTAINED FROM O/C IN TRENCH

INTRBD'D NARROW BANDS (½ cm - 1cm WIDE) OF GREEN CHLORITIC PHYLLITE + TAN-BRN SERICIT FINE-GRND S.S.

FRACT. SURF COVERED BY BLK CARBONACEOUS MA

MAINLY ELONGATED FRAGMENTS + SLIVERS OF PALE GREEN TO OLIVE-BROWN CHLORITIC PHYLLITE. NO VISIBLE O/C.

MARBLE: "DIRTY", CHOC. BROWN, BADLY FRACT BROKEN W/ V. NARROW VEINLETS OF DARK POSSIBLY CARBONACEOUS MAT'L

TRANSITION TO "CLEAN" MARBLE - LT GREY TO PALE GREEN - OR BLUEISH GREY. W/ DARK V. NARROW FRACT. + VEINLETS.

POSSIBLE BEDDING: STR 168° DIP 46° SW

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No. 3

PAGE No. 2 of 6

DATE: Aug 17 / 83

MAPPED BY: G. L. Wesa

NW WALL OF TR #3

ZERO POINT ON GRID: 124m Brg 300° From 45+80 N ∠30+00E

NORTHING: 45+80 N

EASTING: 28+76 E

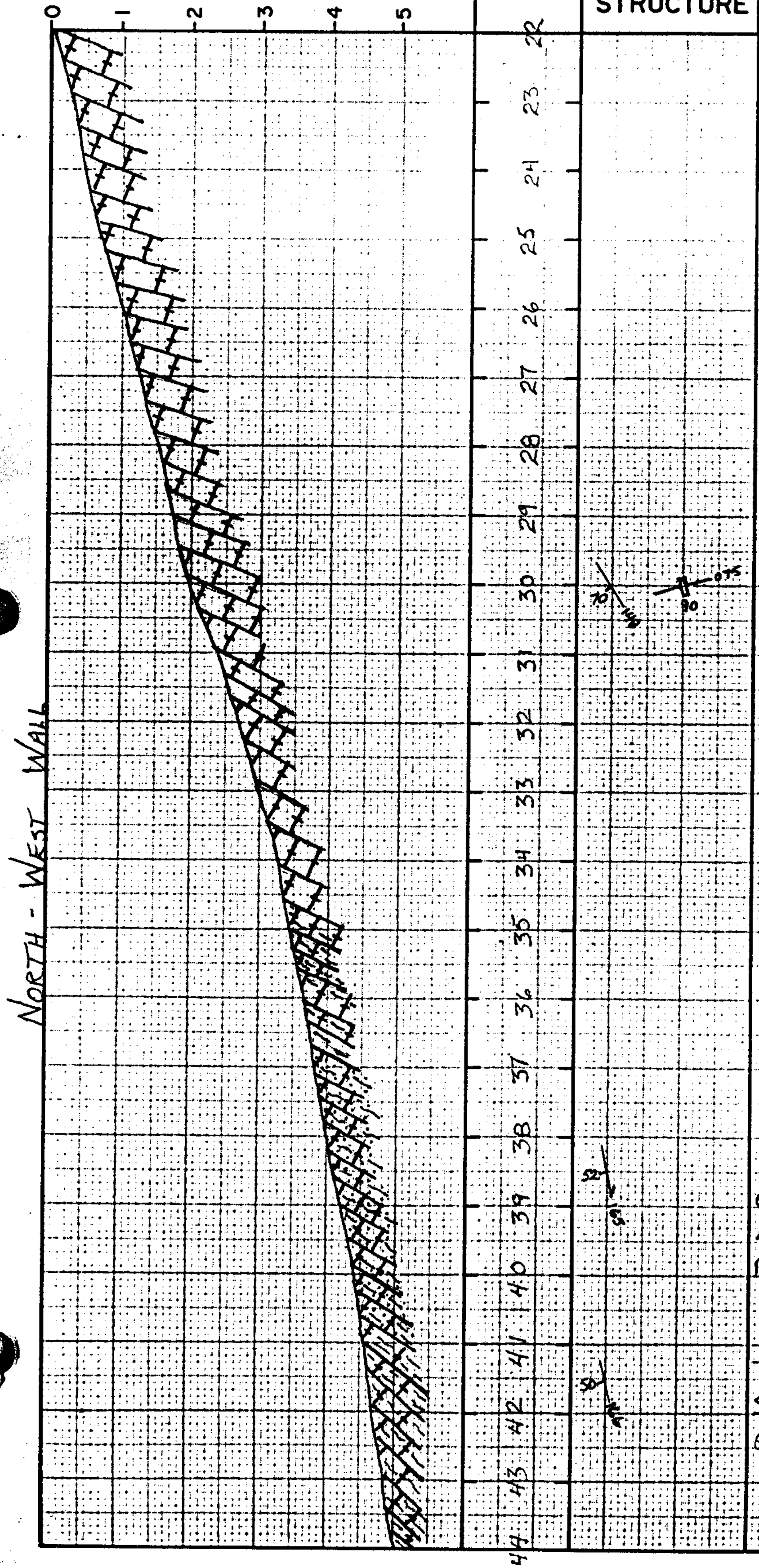
AZIMUTH: 070°

AV. WIDTH: 3.5m - Surface

LENGTH: 167m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE | DESCRIPTION



Homogenous, "Clean", Pale Bluish Grey CRSE Cryst. Marble, Lt. Buff to Lt. Brn with, Well Jointed, MASSIVE

Fractures + Veinlets infilled w/ Dark Brn to Blk (Carbonaceous?) Matl

Bedded Marble; Grey to Med-Grey, CRSE-Cryst; w/ Rusty Partings Distinct Bedding Evidenced By Differential Color Banding.

CRSE-Cryst Grey Marble w/ V. Narrow Sericitic Partings

Well-Bedded, Lt. Brn, Foliatious, Silty Marble, Marble contains laminations of Foliatious Musc-Sericite Schist, up to ½cm wide. V. Distinct color banding (1cm wide) Altrnting Brn, Gry color banded sequence Breaks well along sericite partings.

Transition Zone: Interbdd Brn, Med-CRSE Cryst Slightly Sucrosic Marble and Pale Green to Olive Brn, Crenulated, Chloritic Phyllite

TRENCH RECORD SHEET

MR. PROPERTY, Y.T.

DATE: AUG 17/83

MAPPED BY: G. L. WESA

NW WALL OF TR #3

TRENCH No. 3

PAGE No. 3 of 6

ZERO POINT ON GRID: 124m BRB 300° FROM 45+80N L 30+00E

NORTHING: 45+80N

EASTING: 28+76E

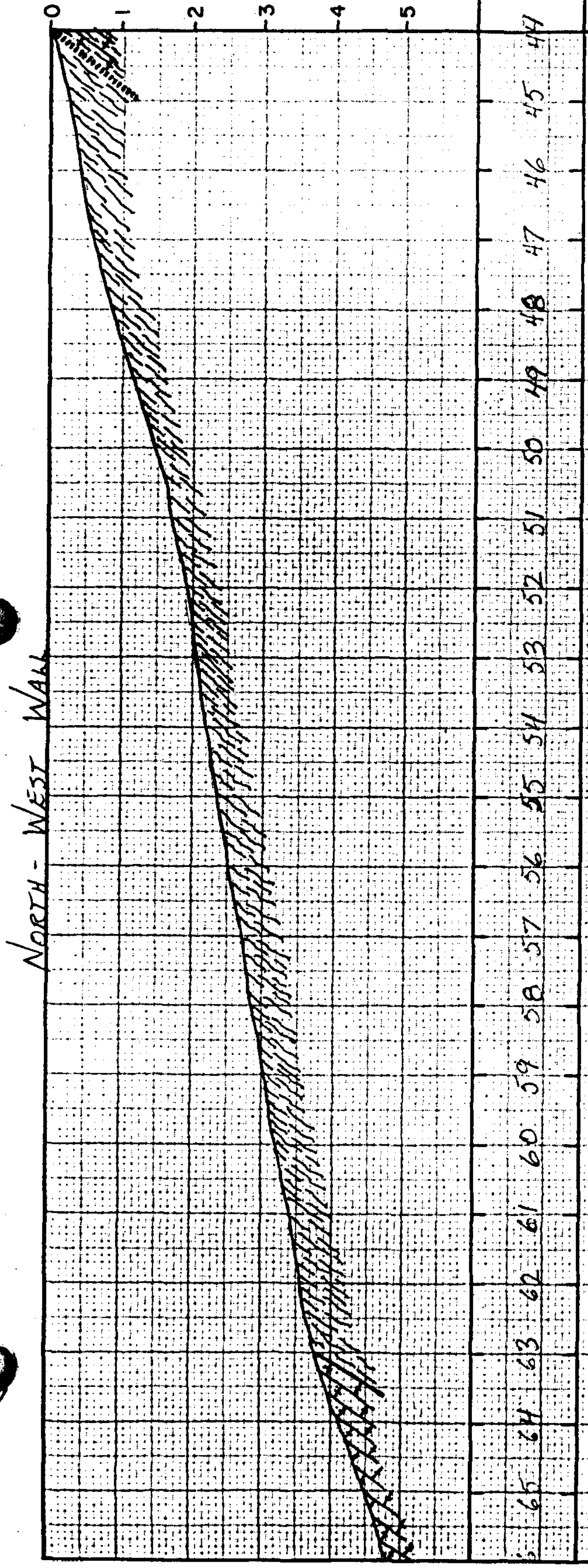
AZIMUTH: 070°

AV. WIDTH: 3.5m-SURFACE

LENGTH: 167m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



ROCK EXPOSURE BADLY BROKEN OR DRIFT COVERED

GRADATIONAL CONTACT

CHLORITIC PHYLLITE: PALE GREEN TO OLIVE-GREEN, BRN W/ MINOR RUST STAINING ON FRESH SURFACES

CHLORITIC PHYLLITES CONTINUES - LACK OF O/C ALONG CUT. SMALL EXPOSURE 2m BEFORE MARBLE CONTACT @ 61m

PHYLLITE BECOMES MORE FOLIATIOUS W/ SILVERY-GREEN LUSTRE
MICA SCHISTS?

CONTACT! LT BLUISH-GREY, CRSE CRYST, MARBLE.

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No. 3

PAGE No. 4 of 6

DATE: AUG 17/83

MAPPED BY: G. L. WESA

N.W. WALL OF TR. #3

ZERO POINT ON GRID: 124m BRG 300° FROM L 30+00E 45+80N

NORTHING: 45+80N

EASTING: 28+76E

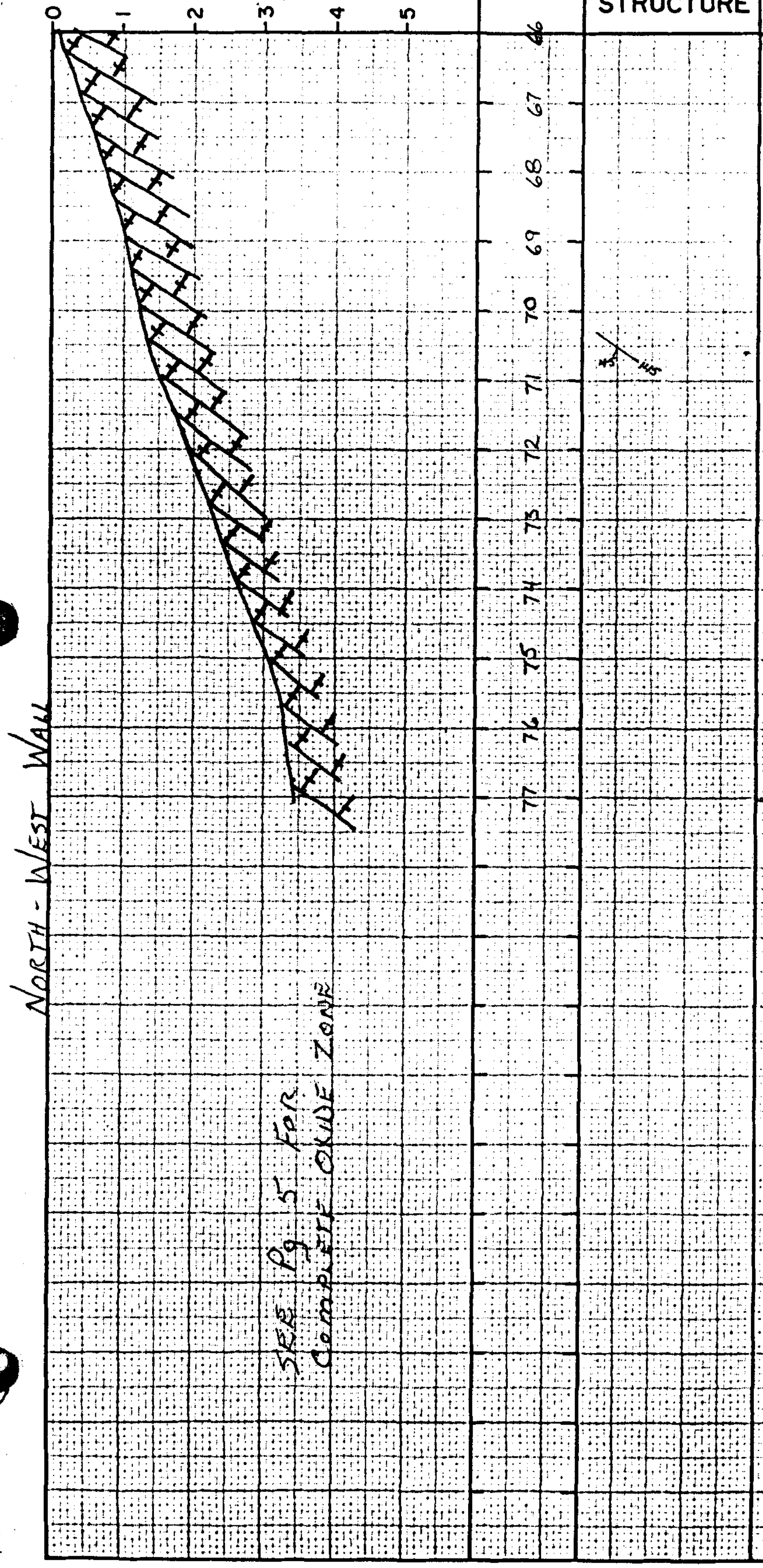
AZIMUTH: 070°

AV. WIDTH: 3.5m-SURFACE

LENGTH: 167m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE



DESCRIPTION

"CLEAN" BLUISH-GREY MARBLE; THICKLY BEDDED, REDDISH BROWN LWTH (NEAR OXIDE CONTACT) TO LT. BRN LWTH.

COMPLETE OXIDE ZONE (22 m TOTAL LENGTH) ON PAGE 5
77m → 99m

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No. 3

PAGE No. 5 of 6

DATE: AUG 17/83

MAPPED BY: G. L. WESA

N.W. WALL OF TR #3

ZERO POINT ON GRID: 124m BRG 300° FROM 45+80N L30+00E

NORTHING: 45+80N

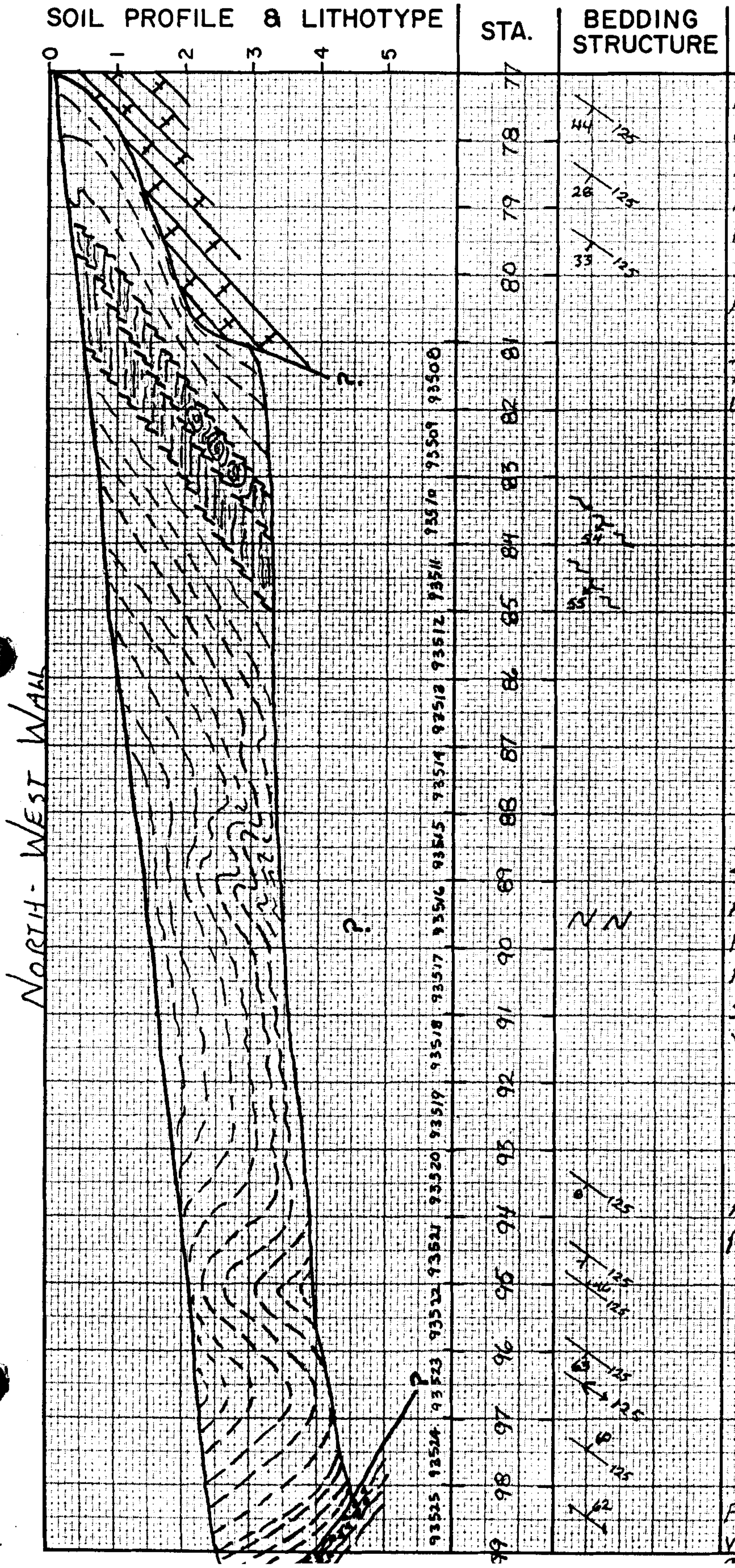
EASTING: 28+76 E

AZIMUTH: 070°

AV. WIDTH: 0.8m-OXIDE ZONE

LENGTH: 167m

SCALE: 1:100



DESCRIPTION

MARBLE FOOTWALL / OXIDE CONTACT MED-CRSE CRYST, BLUE-GRY, MARBLE. Mn + Fe-OXIDES WELL STRATIF. HIGHLY GOSSANOUS, APPR 70% MnO, 30% FeO. CHIEFLY LIMONITE. MASSIVE RED-BRN HEM NEAR SURFACE. WELL STRATIF. LIMONITE (90%) MnO (10%) OCCURS ABOVE CARBONATE CONTACT.

THREE DISTINCT FAULT DISPLACEMENTS - STRATIFTN WITHIN FAULT ZONES HORIZONTAL OR ROLLED

OXIDE ZONE - VIVID COLORS: ORANGE, RED YELLOW, RUSTY LIMONITE, DK GREY - BLK Mn-OXIDE.
CHIEF IRON MINERAL IS HEMATITE IN FORM OF MASSIVE, BOTRYOIDAL, SPECULAR (MINOR FORM, USUALLY AS VEIN FILLINGS). ALSO, RED OCHEROUS.
METALLIC STEEL-GREY OR BLACK TO DULL, FIBROUS VEINS IN MASSIVE, VUGGY BLOCKS W/ SPLENDENT, SPECULAR HEM. GENERALLY FILLING VUGS. HEM. OFTEN RED OR BRN STAINED.
MANGANESE MINERAL PROB. PYROLUSITE - SOFT, GRANULAR, READILY SOILS FINGERS GRAPHITIC BLACK.
OXIDE ZONE GENERALLY WELL STRATIFIED AS EVIDENCED BY LAYERED COLORS + PRECIPITATION OF Fe/Mn-OXIDES.
Fe-OXIDE ≃ 80%, Mn-OXIDE ≃ 20%

FOLIATIOUS MUSC-SERICITE SCHIST W/ H. ALTRD QTZ VEINS (UP TO 5-6 cm WIDE) V. SHARP HANGING WALL CONTACT

TRENCH RECORD SHEET

M.R. PROPERTY, C. [illegible] Y.T.

TRENCH No. 3

PAGE No. 6 of 6

DATE: Aug 17 / 83

MAPPED BY: G. L. Wesa

N.W WALL OF TR # 3

ZERO POINT ON GRID: 124 m, Brg 300° From 45+80 N L30+00E

NORTHING: 45+80 N

EASTING: 28+76 E

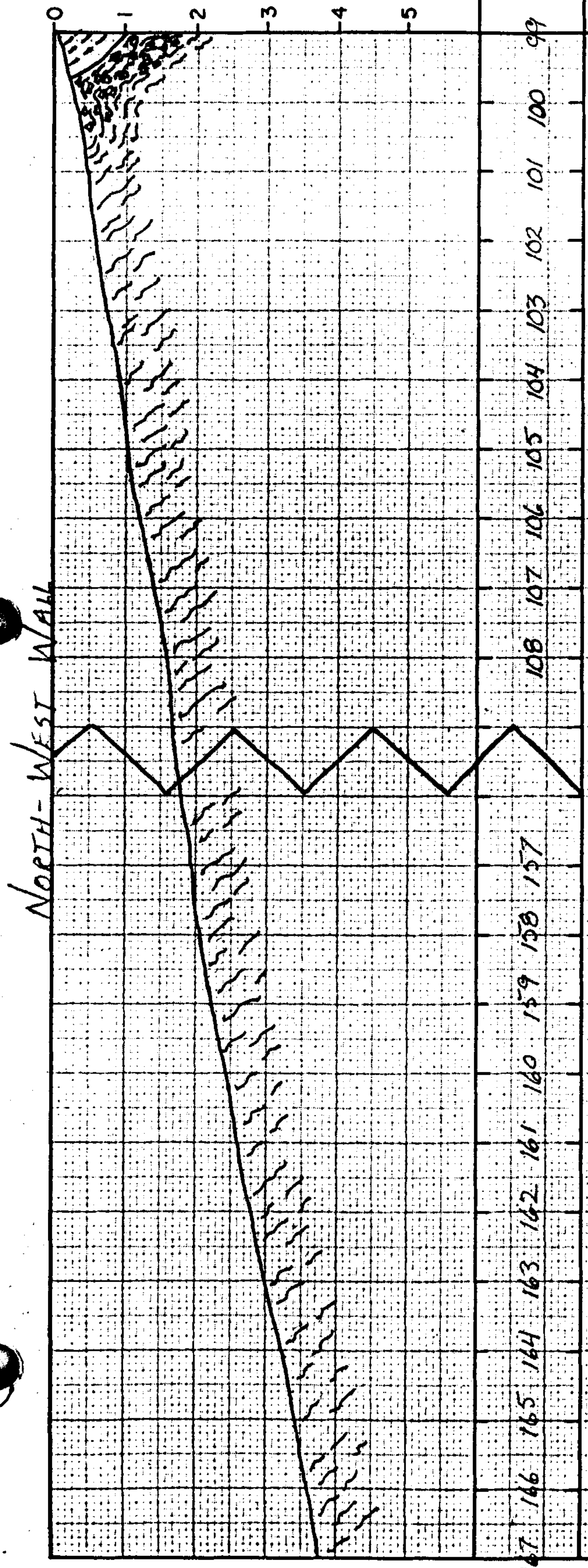
AZIMUTH: 070°

AV. WIDTH: 3.5m - SURFACE

LENGTH: 167m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



BRECCIATED MUSC-SERICITE SCHIST ON OXIDE CONTACT. BROKEN, H. FRACTURED SCHIST FRAGMENTS IN ORN CLAY MATRIX. ASSOCIATED WHITE QTZ VEINS REDUCED TO CRSE, ANGULAR SAND GRAINS.

MUSC - SERICITE SCHIST - SILVERY GREY, HIGHLY FOLIATIOUS, FRACTURED W/ EXTENSIVE RUST STAINING ON FRESH, BROKEN SURFACES.

GRAPHITIC PARTINGS ALONG THE PLANE OF SCHISTOSITY.

SCHISTS HIGHLY CRENULATED W/ EXTENSIVE MINOR FOLDS.

NO o/c ALONG SURFACE CUT; ONLY SURFACE RUBBLE, BOULDERS, ETC. FROM TRENCHING OPERATION.

TRENCH RECORD SHEET

TRENCH No. 3A

PAGE No 1 **OF** 1

M.R. PROPERTY , Y.T.

DATE: SEPT 19, 1983

MAPPED BY: G. L. WESA

S.E. WALL OF TR#3A

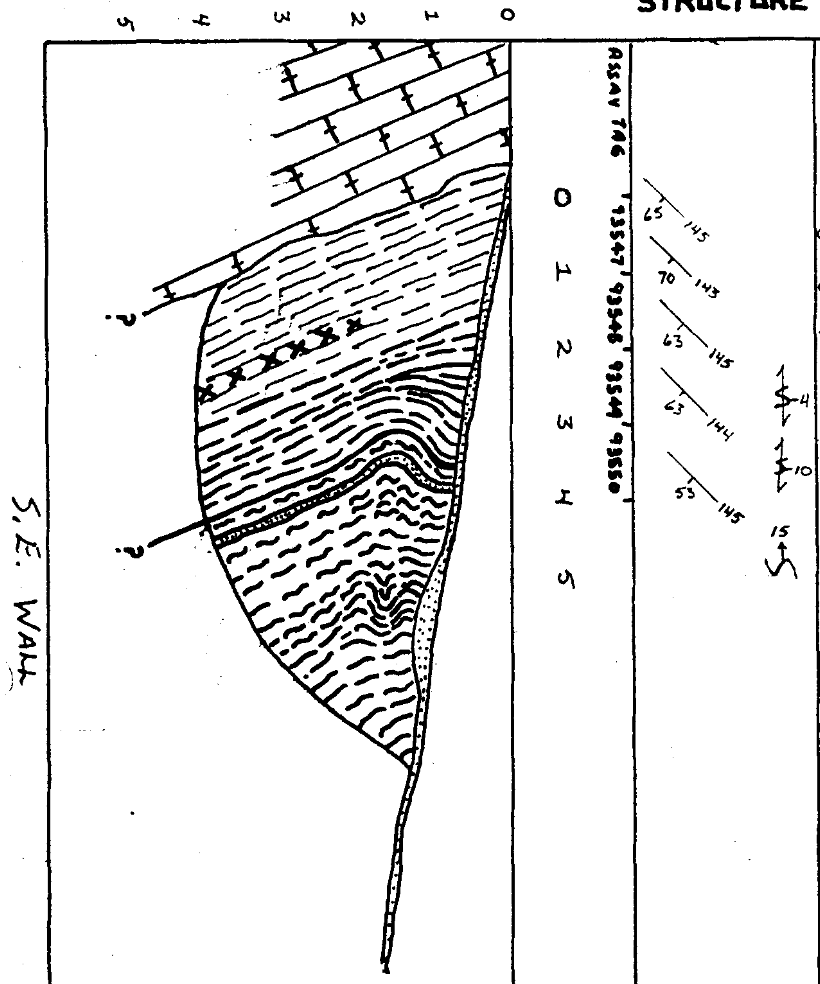
ZERO POINT ON GRID: 81 m, BRG 120° FR; Δ45+52N L28+00E

NORTHING: 45+52N **EASTING:** 27+19E

AZIMUTH: 068° **AV WIDTH:** 1 m

LENGTH ≃ 7.5 m. **SCALE:** 1:100

SOIL PROFILE + LITHOTYPE **STA** **BEDDING STRUCTURE** **DESCRIPTION**



FOOTWALL MARBLE; LT TO MED GRY, CRSE CRYST. MARBLE/OXIDE CONTACT ETCHED + PITTED W/ A RESULTANT SILTY, SUCROSIC TEXTURE. DK BRNISH-BLK Mn-OXIDE STAIN ON ALL FRACT. SURFACES.

CONTACT: V. SHARP; NARROW (2-3cm) Mn-OXIDE + ORN, LIMONITIC BAND @ CONTACT W/ EARTHY YELLOW, ORN, RED, PURPLE LIMONITIC COATING ON MASSIVE, BOTRYOIDAL + "KIDNEY" HEMATITE, OCCURING OUTWARD FROM CONTACT. MINOR SPHALERITE FERRIC-OXIDES = 90%; Mn-OXIDES ≃ 10%. MINOR SPEC. HEM + DRUSY HEM. IN CAVITIES, VUGS + FRACTURES PROMINENT (>90%) LIMONITIC STAIN W/ MINOR BLK GRAPHITIC Mn-OXIDE COATING ON ALL HEMATITE. SMALL FRAGS + CHIPS OF SILVERY MUSC SCHIST FOUND CONCORDANT W/ LIMONITIC BANDS (BEDDED FERRIC-OXIDE). APPEARS EVIDENCE OF REPLACEMENT.

HANGING WALL CONTACT:

H. FOLIATED, FRACT'D, SERICITIZED MUSC SCHIST CONTACT H. ALTERED W/ FORMATION OF SERICITE + TALC. SCHISTS EXTENSIVELY DEFORMED W/ FORMATION OF KINK BANDS, S-FOLDS + WELL-DEVELOPED SCHISTOSITY.

SACHAROIDAL QTZ VEIN, VARIABLE IN WIDTH (AVG ≃ 3cm) OCCURS IN SCHIST.

MORE COMPACT, CRENULATED PHYLLITIC SCHIST W/ DRUSY CALCITE CRYST. ON FRACT. SURFACES. SCHISTS BRN TO RUSTY WTH., DK GRY TO BLK W/ V. FINE SILTY CLAY IN CORE OF TIGHTLY FOLDED LAYERS.

OXIDE ZONE, NEAR OXIDE/SCHIST CONTACT, CONTAINS SOME MASSIVE HEMATITE. CHIEFLY BRIGHTLY GOSSANOUS LIMONITE + LIMONITIC CLAY W/ MINOR BLK Mn-OXIDE BANDS IN LIMONITIC CLAY

LIMONITIC ≃ 80% Mn-OXIDE ≃ 20%

SPHALERITE MINERALIZATION (1-2 m INTERVAL) OCCURS IN FORM OF LG (2-3 cm), BRN TO REDDISH BRN, RESINOUS LUSTRE CRYSTALS IN LIMONITIC NODULES. DRUSY CALCITE + UNKNOWN RADIATING CRYSTALS OCCUR W/ SPHL IN NODULES.

TRENCH RECORD SHEET

M. R. PROPERTY, Y.T.

TRENCH No. 4

PAGE No. 1 of 2

DATE: Sept 5, 1983

MAPPED BY: T. MACKENZIE

ZERO POINT ON GRID: 2800 E ; 4800 N

NORTHING:

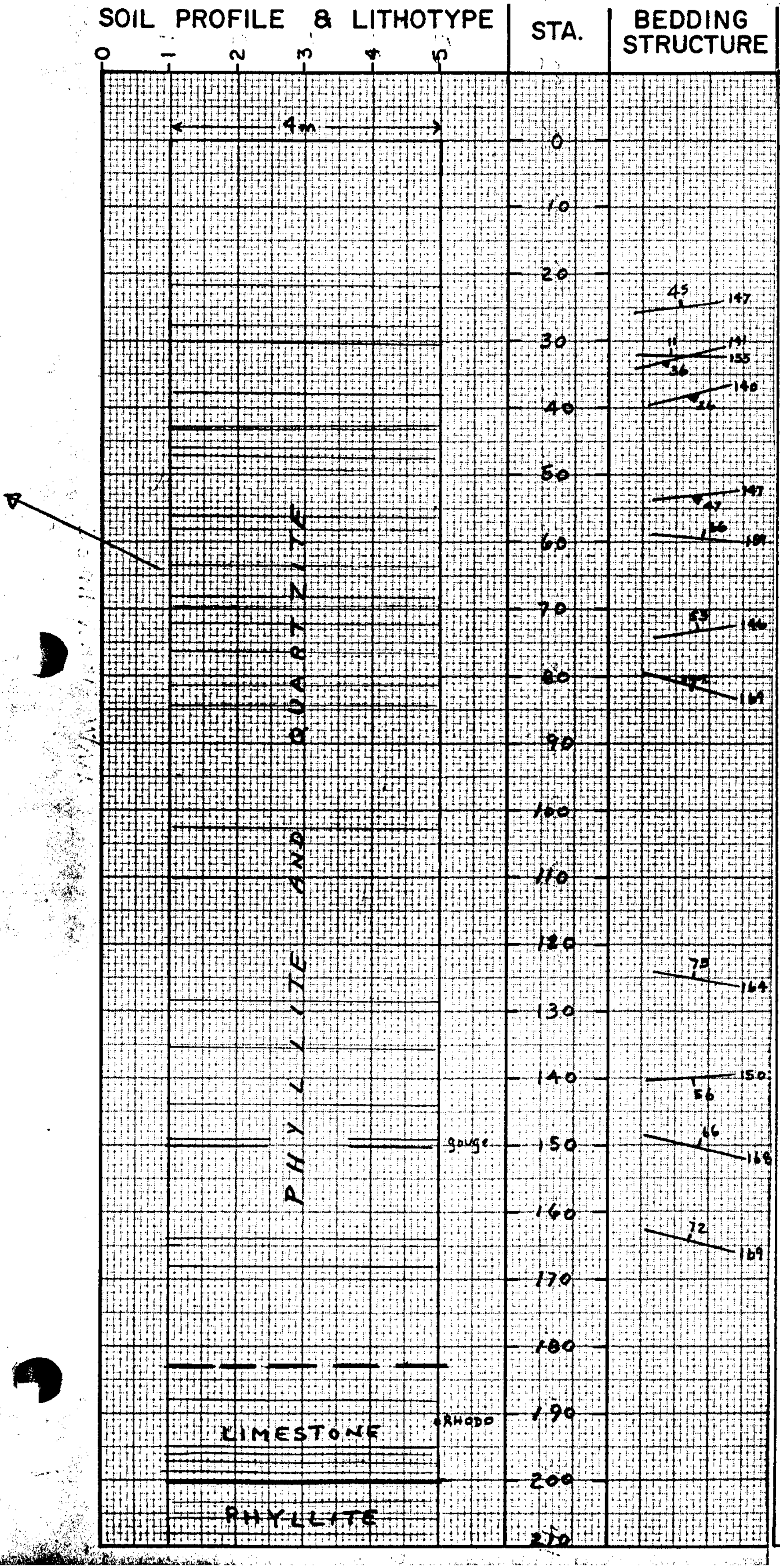
EASTING:

AZIMUTH: 065°

AV. WIDTH: 4m

LENGTH: 300m

SCALE: 1:1000



DESCRIPTION

0.0-21.5m Mud

Inferred outcrop: quartzite-phyllite transition zone.

21.5-27.5m Interlaminated phyllite & quartzite, slightly crenulated; phyllite is dark grey-black & carbonaceous to 3cm thick. Quartzite is red-brown to 2 cm thick.

30.0-37.5m Phyllite with minor quartzite laminations. Phyllite is dark grey to black, graphitic, crenulated.

42.5-43m Blocky boulders of dirty quartzite.

46-47m Micaceous, slightly phyllitic, dull grey SST?

49-50m Light brown, siliceous SST.

50-56m Dull grey-brown grangy phyllite, crenulated, weathered red-brown.

58.0-58.5m Meta-SST boulders, dirty.

58.5-61.5m Quartzite-phyllite interlaminated. Phyllite dark grey to black, graphitic. Quartzite is dirty, oxidized & micaceous.

61.5-63m Meta-SSt to quartzite.

68.0-69.0m dirty quartzite.

72.0-74.0m Interlam phyllite-quartzite. Phyllite dom. dk grey, graphitic. Quartzite is dirty, layers to 1cm, weathers red-brown.

74-76m dirty micaceous quartzite, weathers orn-brn.

81.0-82.5m Interlam. phyllite & quartzite; phyllite is dk grey & graphitic, layers to 5cm; quartzite is red-brn to 2 cm.

82.5-84.0m Quartzite. Phyllite-quartzite interbeds.

102-106m Light grey oxidized quartizte, weathers red-brown on fracture faces.

109.5-122m Phyllite-quartzite laminae.

122-128m Quartzite & phyllite interlaminated. QT dom. lt grey-white, very f-gr. layers to 5cm, weathers orn-brn. Phyllite dk grey, graphitic, to 1 cm.

135-143.5m 135-139m is as 122-128m. 130-143.5m lt. grey to wht graded quartzite, f-c gr. graded bedding weathers orange to red-brown.

143.5-148.5m Loose churned up. Phyllite-QT interlam.

148.5-149.5m Gouge zone? limonitic (orn-brn) clayey mush, completely weathered zone.

149.5-151.2m Interlaminated phyllite-quartzite.

152-163.5 Quartzite rubble.

163.5-164.5m Interlam. quartzite-phyllite, abund. MnO.

164.5-167.5m Quartzite with minor phyllite layer. QT is lt grey to wht with dk MnO on fracture faces. Some is strongly oxidized.

167.5-187.8m Mud with quartzite, phyllite & marble rubble.

Inferred contact.

187.8-190m LMST, lt grey-wht, not crystalline. Weathers orn-brn, some MnO on fracture faces (pinkish -purple black).

190-194.5m LMST as above; rhodochrosite from 190.3-194.5 also pyrolucite dendrite, weathers orn-brn

195.8-196.8m Highly weathered LMSt-limonitic alt.

198.5-199.5m LMST rubble-highly variable. abund. MnO on fracture faces, weathers orn-brn.

203-209 Phyllite rubble, o/c @ 205-5.5+207.3-208.5.

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

TRENCH No. 4

PAGE No. 2 of 2

DATE: Sept 5, 1983

MAPPED BY: T. MACKENZIE

ZERO POINT ON GRID: 2800 E ; 4800 N

NORTHING:

EASTING:

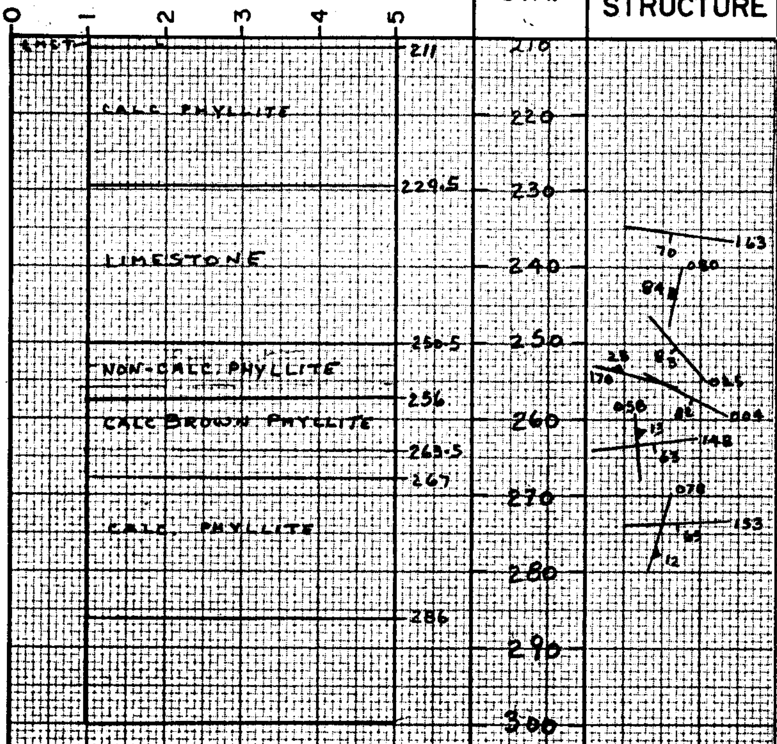
AZIMUTH: 065°

AV. WIDTH: 3-4m

LENGTH: 300m

SCALE: 1:1000

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE



DESCRIPTION

210-211m LMST dirty, lt.orn-brn. MnO on fracture faces & veinlets, weathers red-brn. Minor dissem. sulfides (pyrite).

214-215m Calcareous phyllite, med-grey,weathers brn-red,crenulated,flecks of FeO oxide - sulfides alt?

229.5-250.5m Lt-med grey,massive LMST.Weathers dull brn color banded, lt grey-wht & dk grey layers/lam. Calcite veining prep.to bedding.

250.5m Contact between LMST and phyllite.

250.5m grey,lam.non-calc,crenulated phyllite.Layers are quartzite-phyllite. QT is wht,forms lenses and pods. Phyllite is dk grey & graphitic, weathers red-brown.

256-257.5m Phyllite is dk grey, v.micaceous,"slatey" non-calc and crenulated. Weathers brown.

259.5-263.5m Lt-med dull grey, calc.,crenulated. Phyllite weathers brown.

267-286m Med grey,calc,crenulated. Phyllite weathers brn-orn. Red-brn (FeO) laminated, micaceous. As go down trench, calc.lam. become larger (to 2mm) & are oxidized to lt orn-brn (FeO).

286-300m Mud and soil.

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

PAGE No. 1 of 2

TRENCH No. 5

DATE: SEPT 5 1983

MAPPED BY: T. MACKENZIE

ZERO POINT ON GRID: L2400E, 47+97MN X's the centre of the trench @ 36.5M (trench leg)

NORTHING:

EASTING:

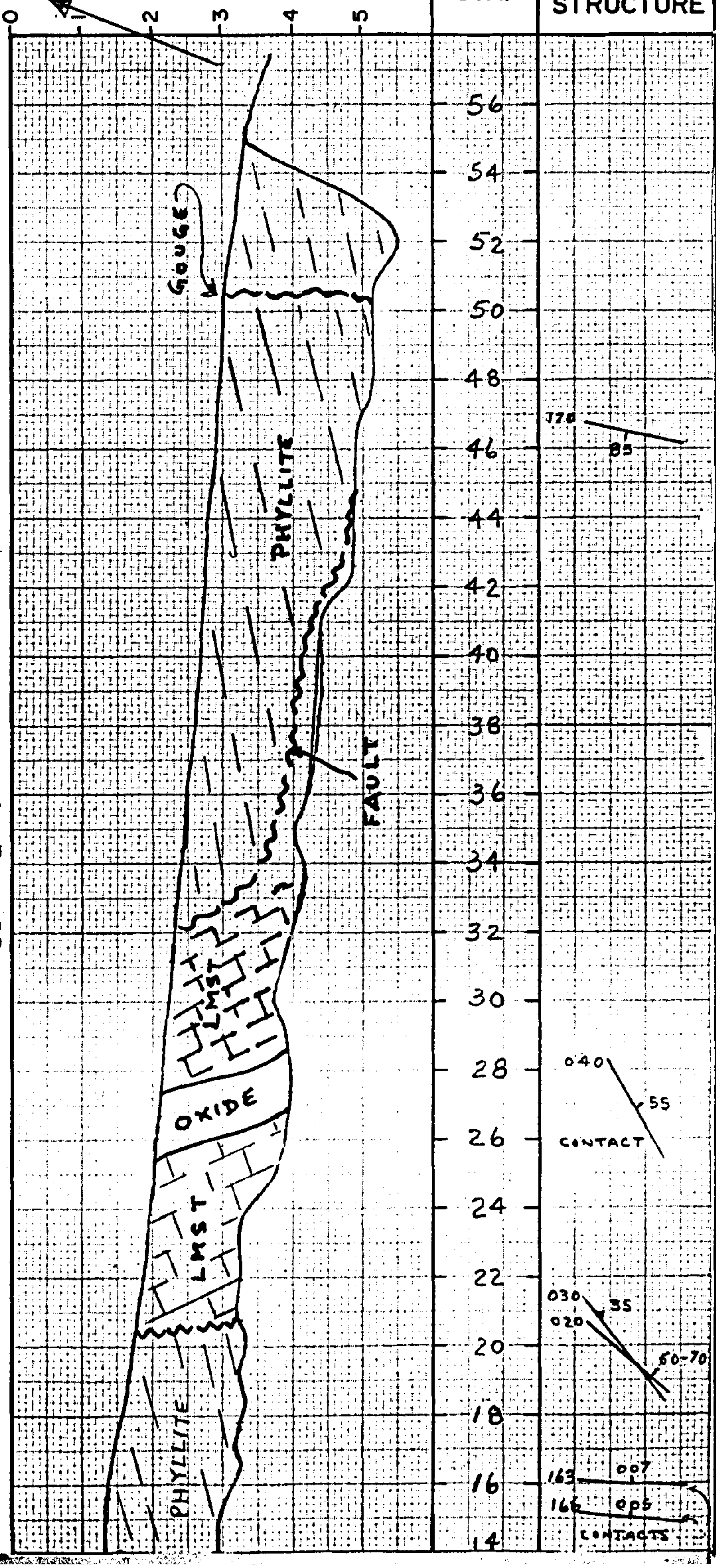
AZIMUTH: ~ 069°

AV. WIDTH: 4M @ SURFACE 0.9M @ DEPTH.

LENGTH: 55 M

SCALE: 1:200

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



50.5m Small vertical gouge zone. Highly altered material - limonitic?

32.5m First appearance of phyllite underlain by LMST. Phy llite is grey & highly deformed, mainly mush. There is LMST rubble in the phyllite,rounded pebbles to boulders. The contact of LMST-phyllite is altered & oxidized. It is a zone of intensely alt. material, bright orn-brn (FeO) limonitic? soft mush with some lt colored layers (quartzite material?).The phyllite near this material is also altered & is dark grey-black & intensely deformed. This gouge zone is probably a fault.

The LMST remains below the phyllite to 43.5m.

The phyllite is lt grey and is actually compacted, deformed, mushed, soft phyllite. It is highly sericitic and feels very greasy.

There are some weathered,crumbly patches of quartzite material in the phyllite. They are up to approx 5cm in diameter and are micaceous.

27.0-28.2m FeO + MnO oxidization. Patch is clean,no LMST in it & no oxide scattered in LMST. The patch is underlain by the LMST, boulders of which appear @ 28.2m.

26.5-27.0m Altered mush gouge zone? some wht layers. LMST to 26.5m Blocky & bouldery (some weathered and soft) appears again after oxide to 32.5m.

20.5m LMST boulders? O/C? Lt grey to wht LMST and strong MnO oxidation on fracture faces,it is also somewhat pervasive.

17.0-18.0m Highly chloritized phyllitic schist.Dark green,sericitic,some MnO,somewhat calcareous.

16.0 25cm max.(T.T.) oxidized layer & gouge.Oxidized layers are soft mush with FeO & MnO. Highly altered, banded (lt-dk) by Fe/Mn content.

15.0m 10cm (T.T.) oxidized layer & gouge?

TRENCH RECORD SHEET
M.R. PROPERTY, YUKON TERRITORY

TRENCH No. 5

PAGE No. 2 of 2

DATE: Sept 5, 1983

MAPPED BY: T. MACKENZIE

ZERO POINT ON GRID:

NORTHING:

EASTING:

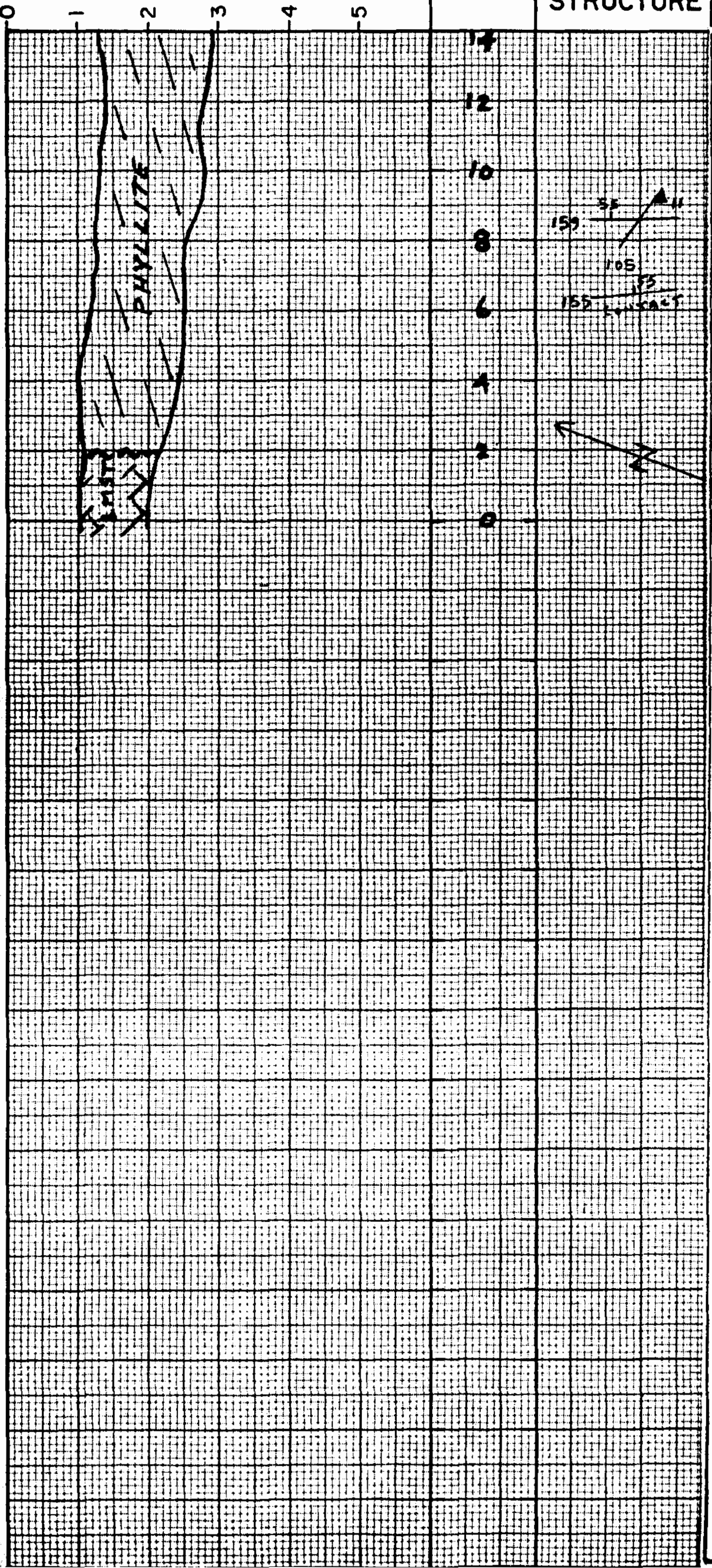
AZIMUTH: 069°

AV. WIDTH:

LENGTH: 55m

SCALE:

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE



DESCRIPTION

6.5m 10-12cm layered MnO, FeO oxide and gouge. Phyllite has red=brown oxide specks (after pyrite). Also MnO oxide of phyllite; may contain talc(?).

2.0-20.5m Green, highly sericitic, crenulated phyllite which is blocky and bouldery, but also soft, mushy and highly weathered.

0.0-2.0m Limestone boulders and outcrop. Light grey with sericite, slightly phyllitic, weathered surface is brown-red.

TRENCH RECORD SHEET
MR. PROPERTY, YUKON TERRITORY

TRENCH No. 6

PAGE No. 1 of 1

DATE: August. 17/83

MAPPED BY: L. R. Solkoski

N. W. WALL OF TRENCH 6

ZERO POINT ON GRID: 48M FROM ROAD AT 070° TO S. END OF TRENCH

NORTHING: 43+60N

EASTING: 30+60E.

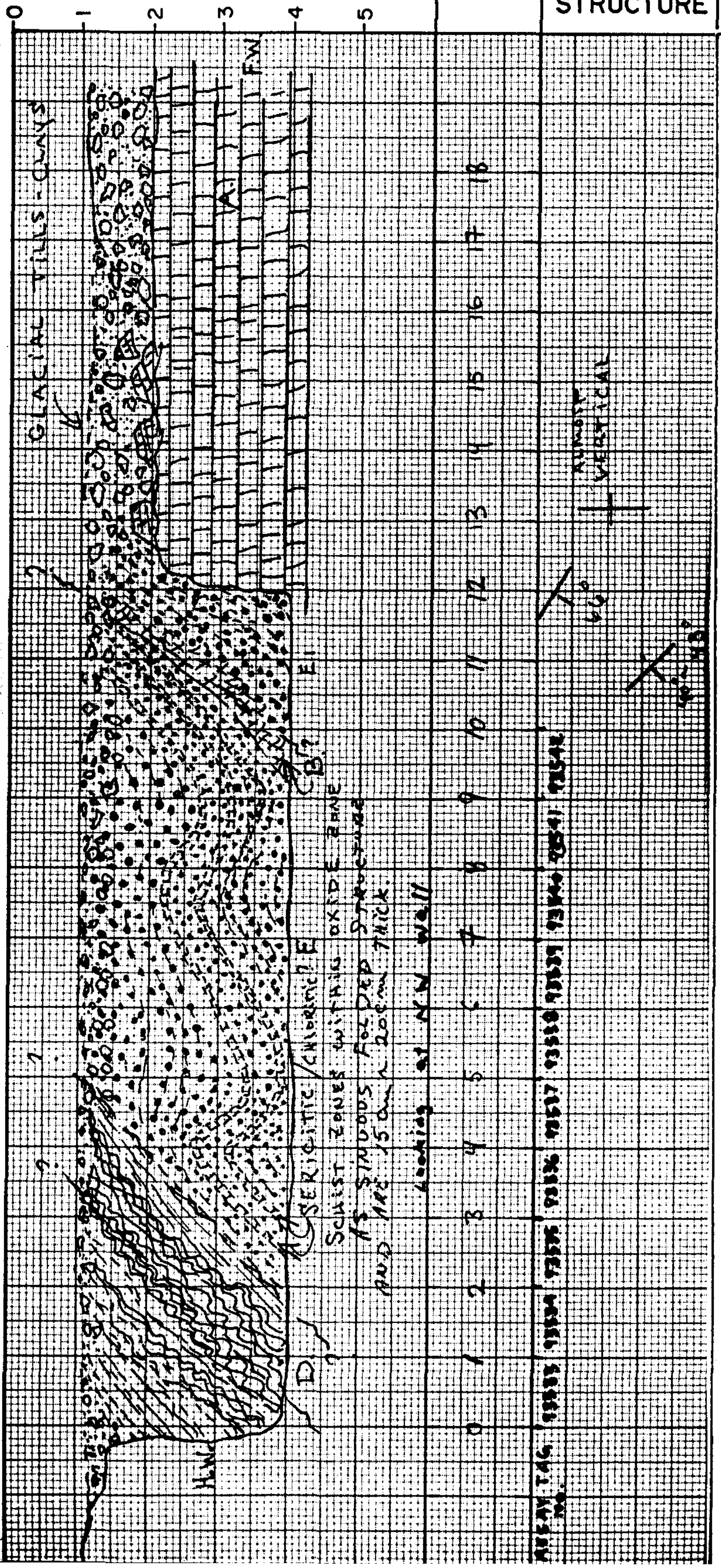
AZIMUTH: 070°

AV. WIDTH: 1M ~ 4.5 M. AT SURF

LENGTH: 16.0M

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



The footwall marble (A) is vertical. Near the oxide contact is abundant manganese associated with the carbonate along fractures, and occurs as heavy coatings, and in-fillings(?)

Unit E, with steep dips near the surface, flattens out closer to the floor of the trench. Unit E, is either a separate oxide zone or part of the same oxide package in the trench. The oxide material is of limonite, hematite ochre? manganese.

In contact with E, is Unit B, a 0.5m wide clay seam (glacial(?) lacustrine) which acts as a wedge between the oxide units.

Unit E, is the main oxide unit, consisting of hematite, limonite, manganese, possible hemimorphite. Within this oxide zone are several sinuous 10-20 cm thick bands of sericitic, possibly chloritic schist zones. Oxide material also has pseudo remnants of bedding and shearing(?) particularly in Unit D. The oxide material itself is black to orange-browns, purples. The oxide zone also contains apparent breccia type(?) material. No noticeable mineralization of any sulfides was seen(?).

Some 10 samples were taken for analysis. Sample #'s 93533 through 93542, sampled oxide material of fine fraction limonitic, hematitic, and possibly graphitic. Also sampled was botryoidal hematite and some schists near the hanging wall.

Unit D, is the probable start of the hanging wall, which appears to consist of very sericitic, possible chloritic, schists. These H.W. schists exhibit very extensively crenulated, kink banded, S-Z folded symmetry with probable shearing. These schists appear highly altered and contain a clay-like gouge (grey in color).

The oxide zones here in trench 6 may quite possibly be within the fault zone host to other trenches along strike.

TRENCH RECORD SHEET

MR. PROPERTY, YUKON TERRITORY

TRENCH No. 7

PAGE No. 1 of 1

DATE: AUGUST 16, 1983

MAPPED BY: L. R. Sohkoski

N.W. WALL OF TR. 7

ZERO POINT ON GRID: SOUTH END OF TR. IS 55 M FROM DRILL ROAD AT 070°

NORTHING: 43+48N

EASTING: 31+05E

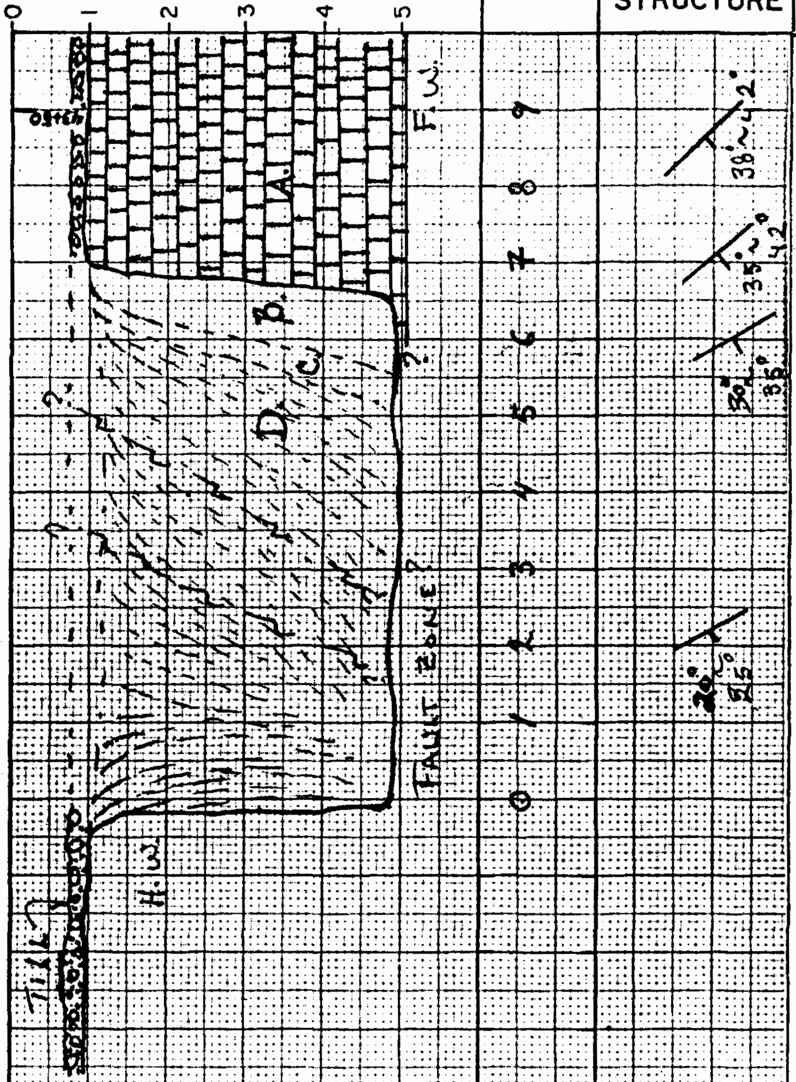
AZIMUTH: 070°

AV. WIDTH: 1M.

LENGTH: 7.0M.

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



Width of trench 1 meter.

Footwall (A) marble of this trench has minor manganese only at the contact of the marble and schist unit. The marble itself appears not to be mineralized.

Unit (B) from 10-15cm thick (wide) appears to be a chloritic? probably sericitic and boititic(?) rich zone of highly altered schists with some limonite.

Unit (C) a 5cm-15cm wide zone of silicified (quartzite?). Sericitic schist contains granular, saccaroidal quartz (previously vein material(?)) as in trenches 15 and 16.

Unit (D) with contact at Unit (C) and extends to south end of trench. Unit D consists of H.W.sericitic schists and probably units (B) and (C) are included. Unit D is quite limonitic and also contains some saccaroidal quartz(?)

There is no definable oxide zone in trench 7 as in other trenches. Only minor to heavy limonite. Units (B) (C) (D) probbaly are within a fault zone. No visible mineralization was noted in any units.

Trench not sampled.

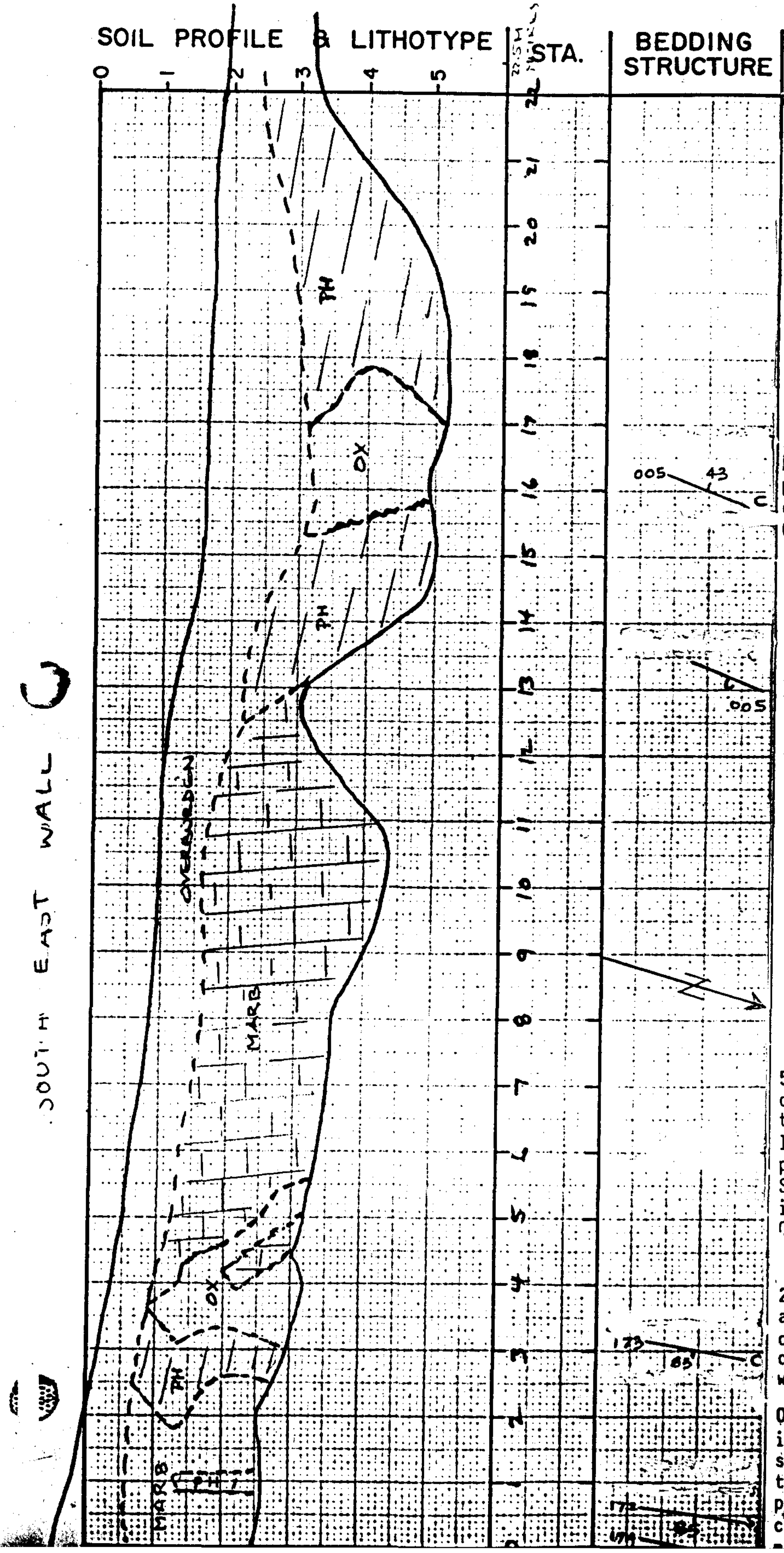
N.W. WALL

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

TRENCH No.	8
PAGE No.	1 of 1
DATE:	August 19 '83
MAPPED BY:	T. MACKENZIE [illegible] S.E. WALL
ZERO POINT ON GRID:	@ 120°, TR8 is 16.0m east of 24+00 47+66N
NORTHING:	
EASTING:	
AZIMUTH:	073°
AV. WIDTH:	4.0m @ SURFACE 1.0m @ Depth
LENGTH:	22.5 M
SCALE:	1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE | DESCRIPTION



17.0-22.0m East wall. Phyllite, some is highly altered & contorted to a limonitic clayey (no plasticity though) mush. Some is more competent. A dark grey graphitic phyllite highly irregular and contorted. Patches of quartz material (granular to crystalline) throughout.

15.7-17.0m East wall. Patch of MnO + FeO oxide. Blue-black, MnO mostly, some orn-red FeO. Some dark grey phyllite mixed in. Some mush, some crumbly. The "Wad" contains specularite in moderate amounts. Contact 005/43 W (v.approx.).

13.5-15.7m East wall. Phyllite pale green sericite & dark grey graphitic mush. Highly contorted and altered. Some is completely altered to an orange FeO limonitic mush(clayey). There is a large patch of this ochre material on the west wall below the overlying phyllite mush (from 13.0-14.5m). There are also isolated patches of wht quartz, some of which is granular, some crystalline. Contact (very approx.) 178/80 SW.

5.5-13.5m Blue-grey marble with pervasive MnO oxidation, causing marble to be red-black often throughout. Purple-black on fracture faces and veinlets. Rock is schistose altered to a reddish-black pyrolusite. Blocky and massive. Lots of fracturing. Some irregular oxidized patches occur between blocks i.e., @ 5.5m - 20cm wide. Prominent fracture faces 039/63 N.W. Dendrites common.

2.5-3.0m Mixture of highly altered sericitic phyllite and quartz veining. Becoming schistose where it contacts the quartz vein. The other side is mainly a contorted mush, very talcose(?). It is more competent where it contacts the quartz vein.

0-2.5m Weathered, blocky marble-phyllite. Discontinuous interbeds of pale green to wht highly altered sericitic phyllite. The marble is dominant with beds to 5.0m with the phyllite laminae to a few mm. and phyllite interbeds to 10-20cm. The marble is dark in color (red-brn to orn) with abundant MnO and is

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

TRENCH No. 9

PAGE No. 1 of 1

DATE: August 19 '83

MAPPED BY: T. MACKENZIE

MAP OF THE SE WALL OF TR 9.

ZERO POINT ON GRID: L24 00E, 48+39N ∧ TR 9 @ 16.0 m

NORTHING:

EASTING:

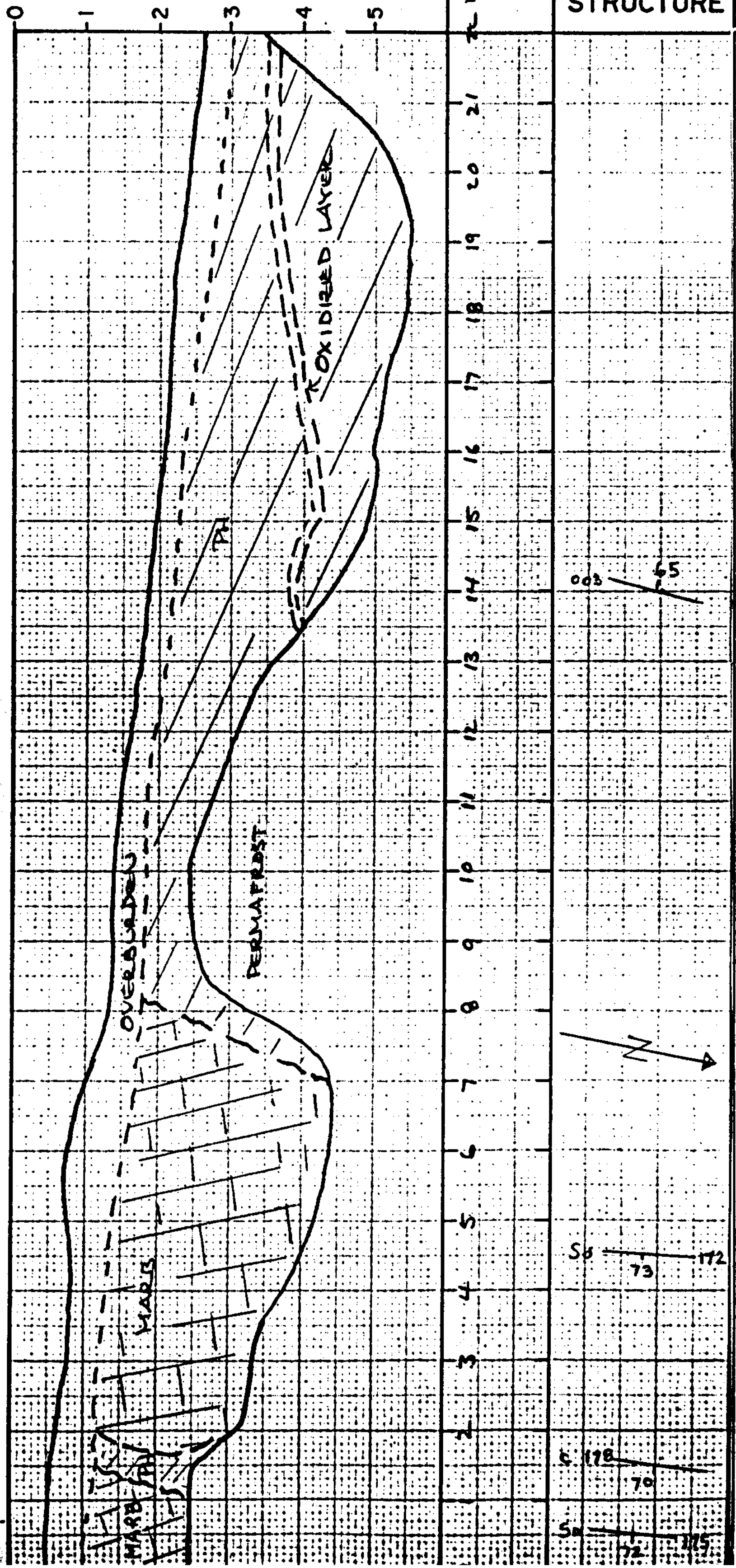
AZIMUTH: 079°

AV. WIDTH: 4.5 m @ surface 0.9 m @ depth

LENGTH: 22.0 M

SCALE: 1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE | DESCRIPTION



15.0-22.0 Pale grn, sericitic, crenulated phyllite rubble. Mixture of phyllite pieces, mush & mud. Some oxidized soil patches, orn-brn in color, FeO, limonite? @ 16.5-20m, irregular layer of FeO oxidation & gouging? Runs horizontally in trench, probably a weathering fracture (water table). Minor MnO in this layer, some wht clay alteration.

14.0-15.0m More competent, blocky rock of the kind described above, pale grn-grey crenulated, phyllite-schist, abundant red-brn FeO flecks & pods. Tiny (up to 0.5mm) specks of biotite throughout. Weathered surface brn. Some oxidized layers.

7.0-14.0m Mushed phyllite and competent chunks throughout. Permafrost. Mainly mud and pale grey-grn crenulated phyllite chunks and mush. Some oxidation occurs (mainly FeO) in a horizontal layering, probably a surficial weathering limonite.

1.5-7.0m Marble, as before but less phyllite-schist.

1.0-1.5m Phyllite schist interbed. Dark grey to brown tightly folded phyllite-schist, highly micaceous foliation surfaces, silver-grey in color, weathers orn-brn, some is pale green sericitic phyllite.

0.1m Blue-grey with pervasive MnO oxidation. MnO on fracture faces and through marble colouring it red-black. Blocky chunks fracture & massive. Weathered surface orn-brn. Some black Mn mineralization, flecks, patches & veinlets. Very fine laminae of phyllite schist, makes a very micaceous sheen on marble surfac Highly micaceous, silver-grey in color.

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

TRENCH No. 10

PAGE No. 1 of 1

DATE: SEPT 5, 1983

MAPPED BY: T MACKENZIE

ZERO POINT ON GRID: L24+00E, 48+80N.

NORTHING:

EASTING:

AZIMUTH: 060°

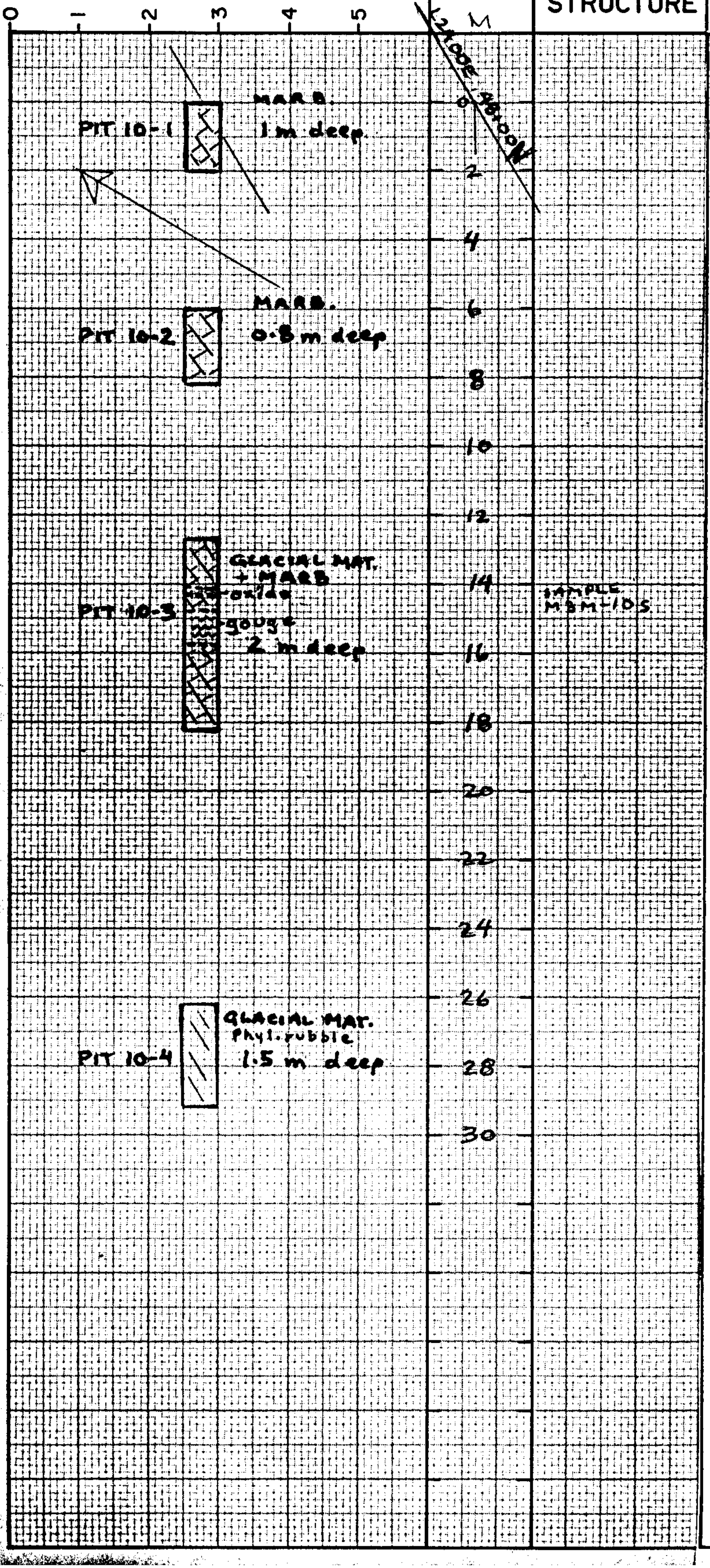
AV. WIDTH: 1 M

LENGTH: OVERALL ≈ 29.2 M

SCALE: 1:200

PLAN VIEW

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE | DESCRIPTION



MARBLE: Blocky,massive,bouldery marble. Blue-grey, crystalline,fine-to-coarse grained; some light grey to white coarse grained, weathers brown to orange-brown. Very minor phyllitic surfaces + MnO - mainly clean marble.

MARBLE: As above; some is oxidized to a red-brown colour and shows phyllitic surfaces - very thin phyllite laminae? Some MnO on fracture faces; mainly cherty marble.

GLACIAL MATERIAL (mainly): Brown soil to alt.mush; some is oxidized giving red-brown & black patches, however, these are very localized.
Sample TR 10S is of the red-brn (FeO?) to blk (MnO?) oxidized material. This zone is 10cm wide maximum. Occurs @ 1.5m from N.E. end.
There is a wide (1.0m) patch of orange silty mush-limonitic? gouge zone? @ 20-30m. The rock type is blocky,massive,dirty (oxidized) marble (see P 10-2) Abundant MnO on fracture faces; marble occurs on both sides of the limonitic gouge zone.
Beside the oxide patches, most of P10-3 is a grey-brown clayey mush to soil with blocky boulders & cobbles of mud-coated marble. There are not any oxide patches W of the limonitic gouge zone - there they occur only in the first 2m. These patches are not clean, there is marble rubble throughout.

GLACIAL MATERIAL: Grey glacial mush overlying brown glacial mush. Grey material contains some black carbonaceous? phyllite rubble, quite plastic, clay. Brown material contains pale green sericitic phyllite rubble, much larger chunks than in the grey. Some is quite highly oxidized to red-brown FeO. Minor patches of weathered out quartzite material in upper, grey phyllite. The lower 0.7m of brown material is overlain by 0.8m of grey material.

TRENCH RECORD SHEET

TRENCH No. 11

PAGE No. 1 **of** 1

M.R. PROPERTY, Y.T.

DATE: SEPT 15, 1983

MAPPED BY: G. L. WESA

S.E. WALL OF TR. # 11

ZERO POINT ON GRID: 104 m BRG 300° FR. L32+00E 43+54N

NORTHING: 43+54N

EASTING: 30+96E

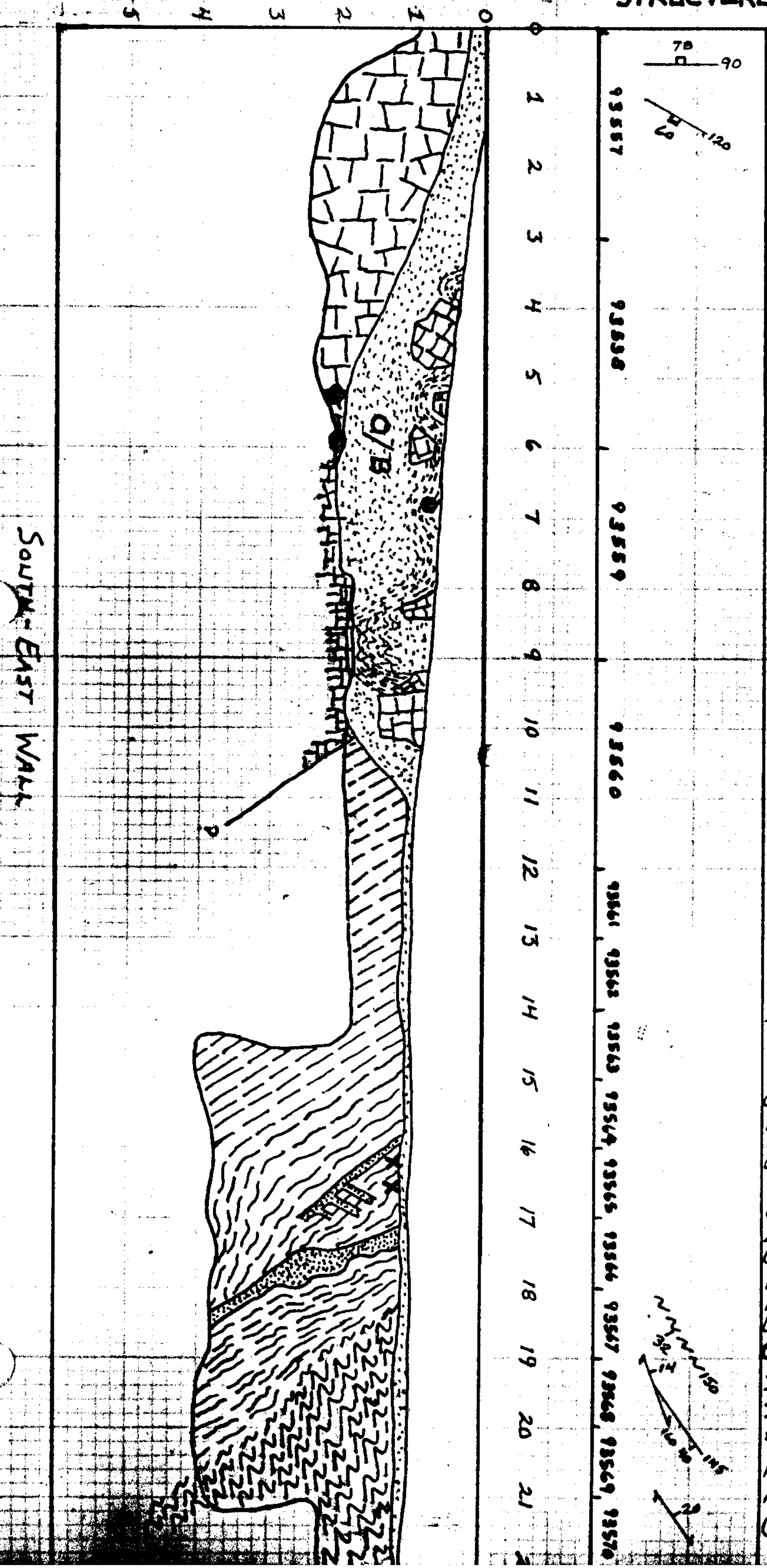
AZIMUTH: 084°

AV. WIDTH: 3.5 m - SURFACE

LENGTH: 22 m - OXIDE ZONE

SCALE: 1:100

SOIL PROFILE + LITHOTYPE | **STA** | **BEDDING STRUCTURE** | **DESCRIPTION**



MARBLE FOOTWALL: DK BRN TO CHOC BRN WTH. MOTTLED BRN, GREYISH WHITE TO GRNISH WHITE IN COLOR. H. FRACT'D W/ MINOR Mn-OXIDE STAIN ON FRACT. SURF.

LIMONITIC CLAY/SILT MAT'L INFILLING FRACT + JOINTS IN MARBLE (MINOR OXIDE ZONE)

LIMONITIC SILT + SILTY CLAY W/ NARROW IRREG BLK MANGANIFEROUS BAND IMMEDIATELY ABOVE FRACT'D MARBLE.

Lg BLKS OF MARBLE IN LIMONITIC C-HORIZON IMMEDIATELY BELOW HUMIC A-HORIZON.

Lg FRACT'D MARBLE BLOCKS (BROKEN REGOLITH) IN SITU IN SILTY, LIMONITIC C-HORIZON. ABOVE FRACT'D, BROKEN MARBLE BEDROCK.

MARBLE/OXIDE CONTACT

OXIDE ZONE: RED, ORN, OCHRE, PURPLE IN COLOR. FERRIC OXIDE ≃ 85-90%, MANGANIFEROUS OXIDE ≃ 10-15%.

MAINLY MASSIVE HEMATITE W/ H. GOSSANOUS WTH. SURF., BREAKS IN HACKLY FRACTURE

TRENCHED OXIDES DISPLAY BRILLIANT COLOR BANDS, W/ FERRIC MAT'L IN FORM OF MASSIVE HEMATITE, LIMONITE (GOETHITE?) + LIMONITIC CLAY (90%); MANGANIFEROUS MAT'L (10%) IN FORM OF MINOR SMALL CRYSTALLINE MASSES + BLK, GRAPHITIC, SECONDARY COATING ON FERRIC-OXIDE

HIGHLY ALTERED, WHITE/PALE PINK SACHAROIDAL QTZ VEIN NETWORK

ZONE OF Pb-Ag MINRLZTN, NEAR SURFACE ONLY; CLOSELY ASSOC W/ ALTERED QTZ VEINS. Pb-Ag IN SINUOUS, ISOLATED PODS @ SURFACE - PROBABLY FAULT CONTROLLED, ASSOC. W/ WHITE-YELLOWISH-WHITE, SACHAROIDAL QTZ VEIN SYSTEM.

OXIDE/SCHIST CONTACT

SILVERY-GRY, RUST-STAINED, H. SERICITIC MICA SCHIST. EXTENSIVELY CRENULATED, KINK BANDED W/ PROMINENT S-FOLD SYMETRY - BEDDING FAIRLY OBSCURED.

HANGING WALL SCHISTS ALSO CUT BY NARROW (1 cm) DISCORDANT, ALTERED QTZ VEINS

TRENCH RECORD SHEET

M. R. PROPERTY, Y.T.

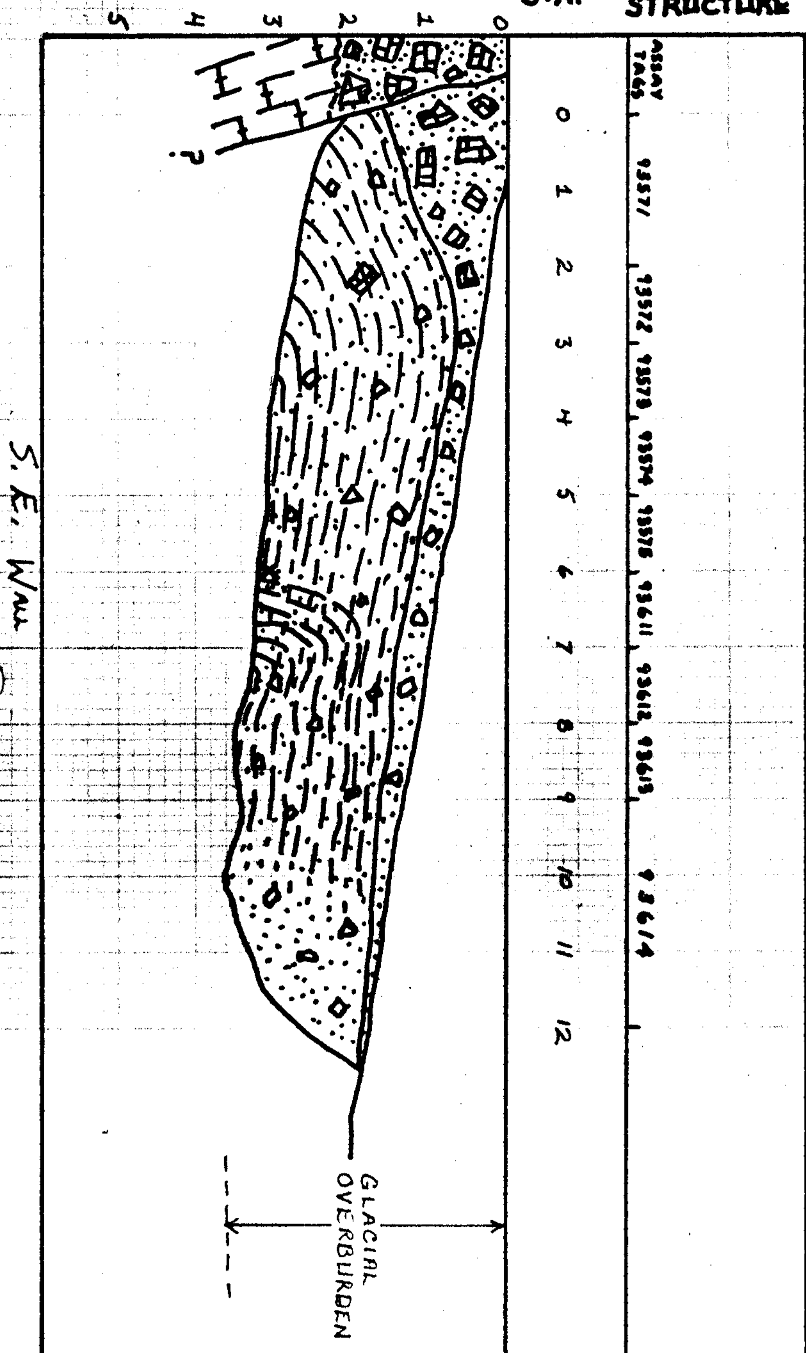
TRENCH No: 13

PAGE No: 1 OF 1

DATE: SEPT 20 / 1983
MAPPED BY: G. L. WESA
S.E WALL OF TR# 13

ZERO POINT ON GRID: 44 m BRG 300° FR: Δ47+50N L24+00E
NORTHING 47+50N **EASTING:** 24+44E
AZIMUTH 090° **AV. WIDTH:** 1 m
LENGTH: ≃ 13 m **SCALE:** 1:100

SOIL PROFILE + LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



FOOTWALL MARBLE: Mn-OXIDE STAINED + RUST STAINED, CRSE CRYST, BLUE-GREY IN COLOR.
MARBLE/OXIDE CONTACT:
MASSIVE, GOSSANOUS, STEEL GREY HEMATITE @ CONTACT, NEAR BASE OF TRENCH. OVERLAYN BY GLACIAL CLAYS CONTAINING MARBLE BLDRS.
BLK, GRAPHITIC, Mn-OXIDE COATING ON HEMATITE
MAJORITY OF FERRIC MAT'L IN FORM OF HIGHLY GOSSANOUS LIMONITE / LIMONITE NODULES + CLAY MAT'L.
FRAGMENTS OF PHYLLITE/PHYLLITIC SCHIST + MARBLE IN O/B. OXIDE ZONE PRECIPITATED WITHIN O/B. COVER.
GLACIAL CLAYS/SILTS = 80%; BLDRS ≃ 20%

ISOLATED, UNALTERED PATCHES OF TILL MAT'L IN UPPER PART OF TRENCH
MINOR GALENA IN SMALL LIMONITIC NODULES FOUND @ BASE OF TRENCH IN H. LIMONITIC, FRACT'D HEMATITE

Fe-OXIDE MAINLY IN FORM OF OCHRE, ORN, BANDED LIMONITE W/ MINOR BANDS OF BLK Mn-OXIDE COATING
MASSIVE HEMATITE V. MINOR, COMPRISING <1% OF FERRIC MAT'L.
FLOW(?) BANDED LIMONITE CONSISTENT + CONTINUOUS THROUGHOUT O/B. NOT BROKEN OR DISRUPTED BY SLUMP MOVEMENT OF ANY TYPE.
BANDED LIMONITE DISAPPEARS TOTALLY @ SOUTH END OF TRENCH. GRADATIONAL INTO BRN TO GREENISH-BRN GLACIAL CLAYS.

TRENCH RECORD SHEET

M.R. PROPERTY, Y.T.

TRENCH No: 14

PAGE No 1 **OF** 1

DATE: SEPT 20/1983

MAPPED BY G. L. WESA
S.E. WALL OF TR # 14

ZERO POINT ON GRID: 70m, BRG 300° FR: L24+00E Δ 47+24N

NORTHING: 47+24N

EASTING: 24+70E

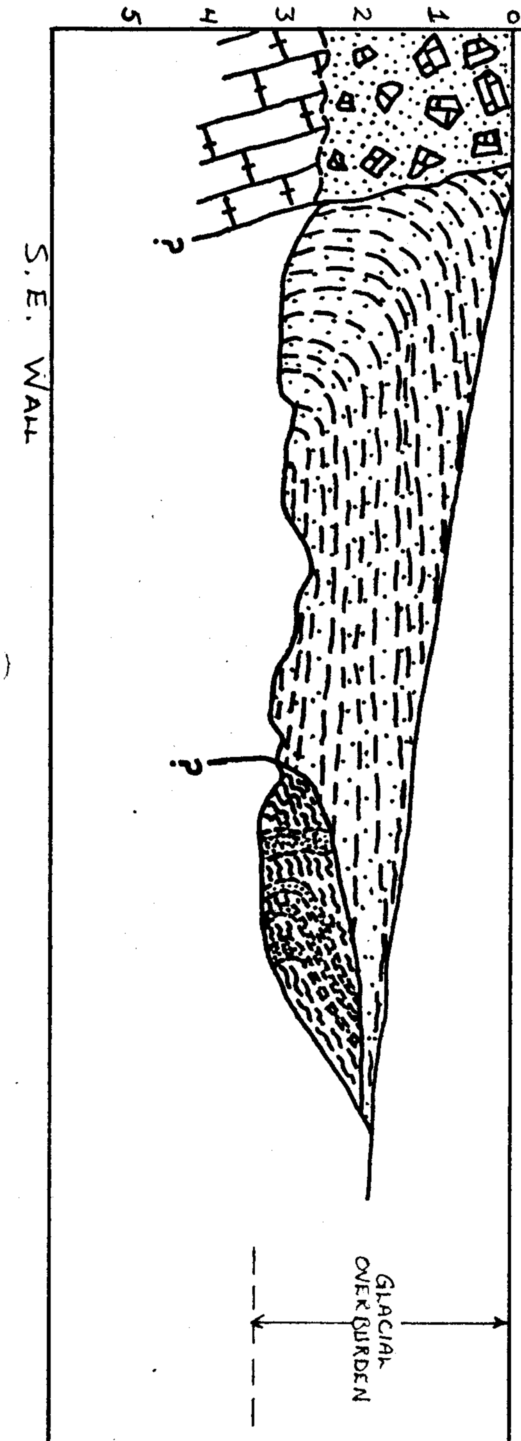
AZIMUTH: 115°

AV. WIDTH: 1 m

LENGTH: ≃ 12m

SCALE: 1:100

SOIL PROFILE + LITHOTYPE



STA	ASSAY TAGS	BEDDING STRUCTURE
0	93615	
1	93616	
2	93617	
3	93618	
4	93619	
5	93620	
6	93621	
7	93622	
8	93623	
9	93624	11(?) 180
10		185(?)
11		
12		

DESCRIPTION

FOOTWALL MARBLE: DK BRN, Mn-OXIDE STAIN ON FRACTURES, CRSE CRYST, BLUE-GRY, PALE GRY IN COLOR

CARBONATE/OXIDE CONTACT: OXIDE ZONE COMPRISED OF >90% OCHRE, ORN, EARTHY BRN, REDDISH-BRN, BLK LIMONITIC BANDS (FLOW BANDS?) IN GLACIAL TILL, MINOR Mn-OXIDE COATING ON LIMONITIC MAT'L FERRIC + MANGANIFEROUS OXIDES PRECIP. TOTALLY IN O/B. MAT'L. (CLAYS ≃ 90%, CRSE FRACTION, IE. BLDRS, COBBLES, PEBBLES OF CARBONATE + PHYLLITE ≃ 10%)

<10% OF FERRIC OXIDE IN FORM OF MASSIVE HEMATITE. CHIEFLY LIMONITE NODULES, LIMONITIC CLAY - BANDED + BRIGHTLY COLORED W/ NO DISRUPTION OR DEFORMATION OF BANDS.

LIMONITE (GOETHITE?) PRIMARY Fe-OXIDE W/ BLK, GRAPHITIC Mn-OXIDE AS BLK BANDS + COATINGS ON LIMONITE.

RESIDUAL, UNALTERED PATCHES OF GREENISH-BRN - BRN GLACIAL CLAY (UP TO 6" DIAM) OCCUR WITHIN BANDED LIMONITE.

HIGHLY ALTERED, SERICITIC, LIMONITIC, HANGING WALL SCHISTS IN SHARP CONTACT WITH BANDED LIMONITE.

FOUR SACHAROIDAL QTZ VEINS, CONCORDANT W/ BE BEDDING(?) OBSERVED IN H. FRACTURED, SILVERY, GREENISH-GRY MICA SCHISTS. SCHISTS HIGHLY ALTERED TO LIMONITIC, SERICITIC CLAY - BEDDING OBSCURED.

TRENCH RECORD SHEET

MR PROPERTY, Y.T.

TRENCH No. 15

PAGE No. 1 of 2

DATE: SEPT 25, 1983

MAPPED BY: L. R. SOLKOSKI

S.E. WALL OF TR. 15

ZERO POINT ON GRID: 40.0m @ 068° from DDH 83-4

NORTHING: 43+20N

EASTING: 32+25E

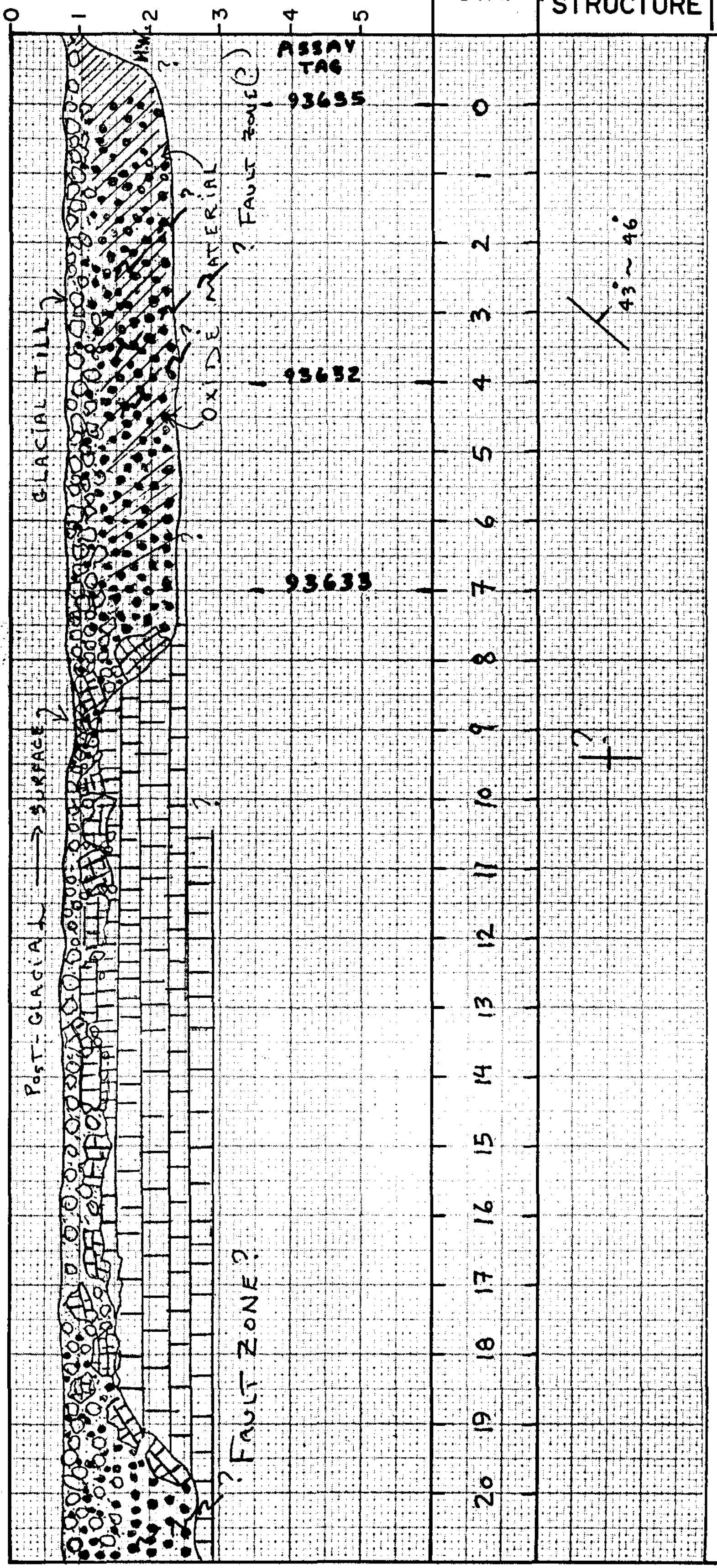
AZIMUTH: 030°

AV. WIDTH: 1.0M.

LENGTH: 23.0m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



Hanging wall consists of altered phyllite schists. Schists very limonitic with minor hematite, chlorite? sericite, and altered (oxidized) limonitic quartz veins.

Oxide zone(s) appears to lie within altered schist and lie within altered schist and glacial lacustrine clays and sand. (••) illustrates the oxide material. The oxide zones appear to lie on both sides of the carbonate (marble) unit. The oxide zones appear to be possibly pre and post glacial origin(?) Oxide material consists of limonite, hematite, manganese, possible botryoidal chalcedony(?).

Pseudo bedding appears in oxide zone, as indicated by various color bands.

Carbonate material appears to consist of marble. Large amounts of manganese appears to be associated with the carbonate along fractures and bedding planes. This marble unit occupies the footwall of this trench.

No apparent visible mineralization was seen in the trench in schists or carbonate.

Four selected random samples were taken from the trench for analysis.

With amount of broken bedrock material in footwall and hanging wall, this is indicative of a fault zone between the schists and carbonate units, with additional broken bedrock material due to glaciation.

Oxide zones in trench exhibit brightly colored, brown-orange zones of hematite, limonite, managanese (black).

The Quartz veins which are found in most trenches are quite competent, but certain sections oxidized out to a saccaroidal texture, as in trench 15. No quartz veining is to be found in the footwall of this trench.

Quartz veining in the H.W. is concordant(?) with bedding partially obscured due to the highly altered nature of the schists to a blue-grey gouge.

Contact between the oxide zone and H.W.schists is very gradual and oxide material appears to grade into the schists.

Samples for analysis were taken in four locations within oxide zone(s):

#93632 at 4m mark
#93633 at 7m mark
#93634 at 21m mark
#93635 at 0.0m mark
(in schist H.W.Side)

SOUTH EAST WALL

TRENCH RECORD SHEET

MR. PROPERTY, Y.T.

TRENCH No. 15

PAGE No. 2 of 2

DATE: SEPT. 1983

MAPPED BY:

ZERO POINT ON GRID:

NORTHING: 43+20N

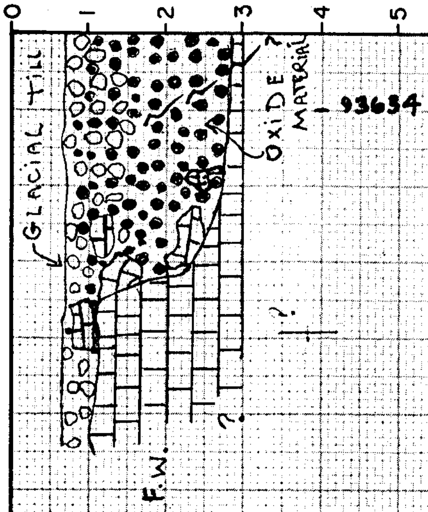
EASTING: 32+25E

AZIMUTH:

AV. WIDTH:

LENGTH:

SCALE:

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION
	21 22 23 24		

South East Wall

TRENCH RECORD SHEET
M.R. PROPERTY, YUKON TERRITORY

TRENCH No. 16

PAGE No. 1 of 2

DATE: September 26, 1983

MAPPED BY: L. R. Solkoski

SE wall of TR 16

ZERO POINT ON GRID: 50 m at 078° from DDH 83-4

NORTHING: 43+30N

EASTING: 32+40E

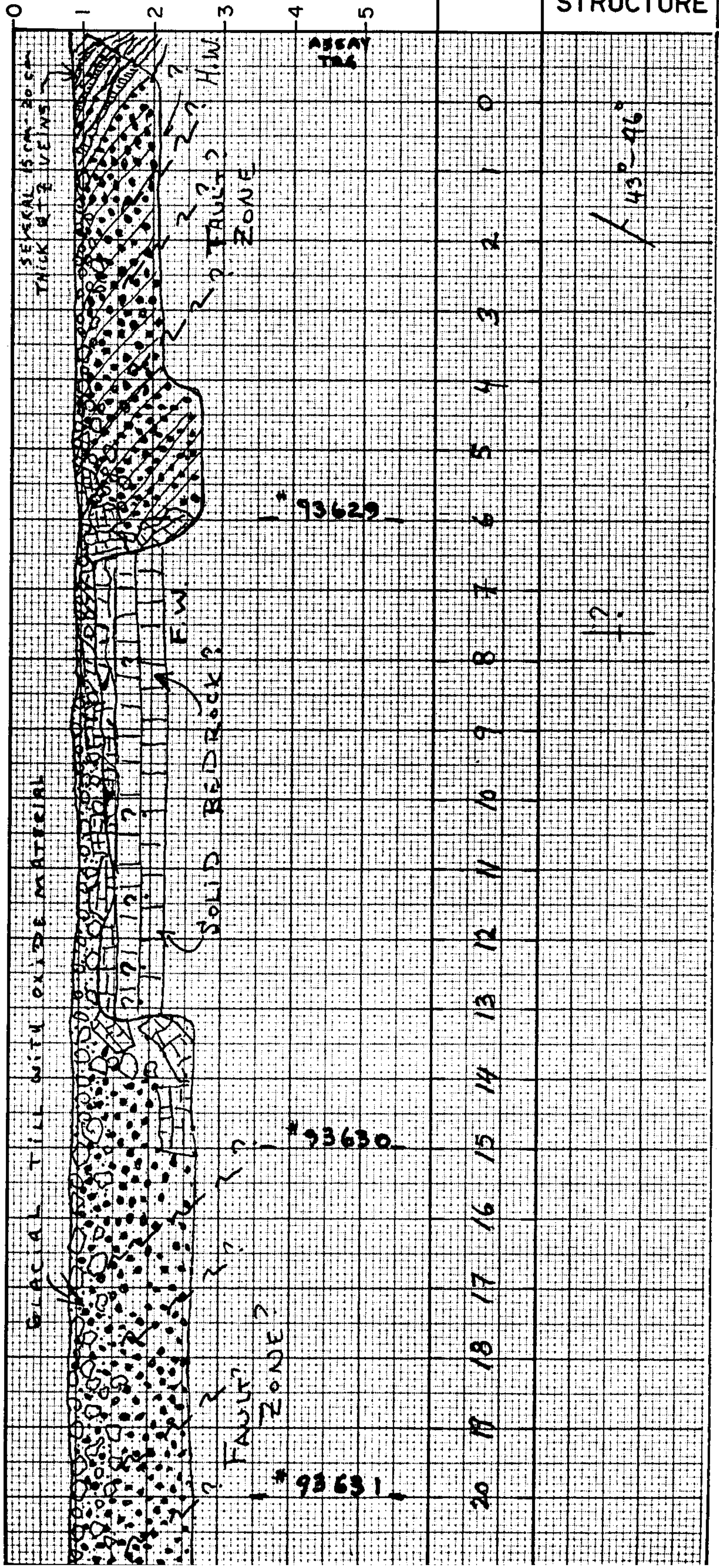
AZIMUTH: 030°

AV. WIDTH: 1m

LENGTH: 28.0 m

SCALE: 1:100

SOIL PROFILE & LITHOTYPE | STA. | BEDDING STRUCTURE | DESCRIPTION



Hanging wall consists of limonitic, possibly hematitic ferruginous schist, highly contorted. Folded with numerous S-Z folds 15-20 cm thick. Quartz veins parallel to apparent bedding within these schists. Quartz veins appear to be barren.

These quartz veins are oxidized however, (contain limonite and hematite? ochre?) and in several instances the veins are weathered crumbly (saccaroidal in nature).

The oxide zone lies next to the H.W. schists, but the contact is not sharply defined. Glacial till and clays grade almost inperceptibly into the oxide material or vica-versa. Oxide material appears to consist of abundant hematite, limonite, ochre, manganese; with colors ranging from red browns-orange, blacks, black-reddish-browns. The hematite is also in the form of hemimorphite. There appears to be 2 oxide zones, as in trench 15. Oxide material lies on both sides of the carbonate unit. The carbonate material between the 2 oxide zones may not be competent outcrop but trenching was unable to reveal this.

The carbonate unit appears to be a marble, non-mineralized. Close to the oxide zones, the marble contacts contain abundant manganese within the marble itself.

TRENCH RECORD SHEET

MR PROPERTY, YUKON TERRITORY

TRENCH No. 16

PAGE No. 2 of 2

DATE: September 26, 1983

MAPPED BY:

ZERO POINT ON GRID:

NORTHING:

EASTING:

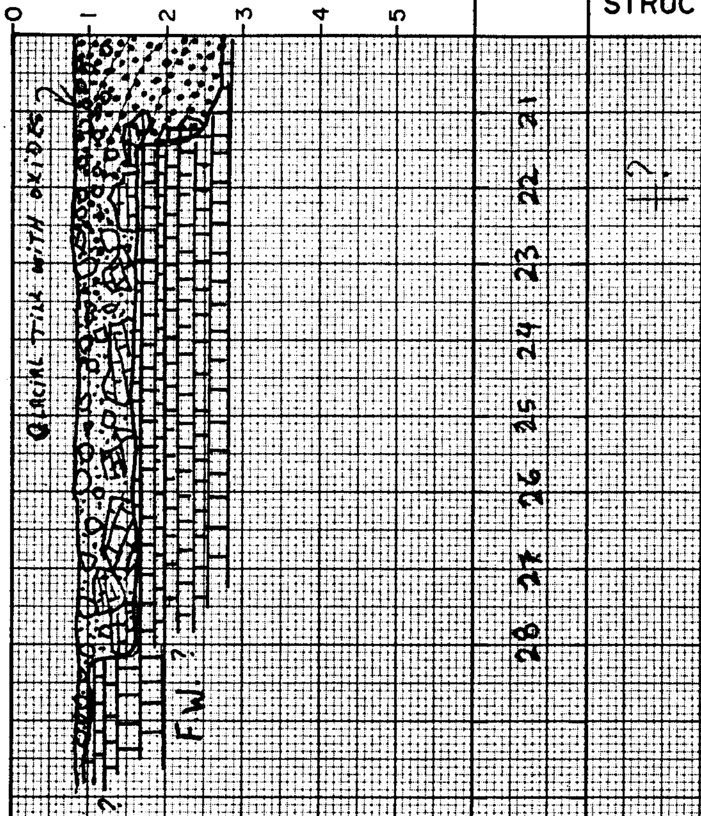
AZIMUTH:

AV. WIDTH:

LENGTH:

SCALE: 1:100

SOIL PROFILE & LITHOTYPE	STA.	BEDDING STRUCTURE	DESCRIPTION



South East Wall

APPENDIX "K"

DIAMOND DRILL LOGS

- DDH MR83-1
- DDH MR83-2
- DDH MR83-3
- DDH MR83-4
- DDH MR83-5

DDH MR83-1

R-82

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER **D.D.H.** MR 83-1 **Page** 1 **of** 11

AREA WEST ZONE
CLAIM MR 140
GRID CO-ORDS Line 27 + 75E
Station 44 + 60N
SURVEY CO-ORDS Northing
Easting
ELEVATION 1185.9m
STICK UP 0.6m

SECTION
AZIMUTH (T) 070°
INCLINATION -45°
DEPTH Hole 145.3m
Casing 6.1m
Overburden 7.0m
CORE SIZE N.Q.
CORE RECOVERY 64.6%

DATE Started AUG. 14, 1983
Completed AUG. 18, 1983
CONTRACTOR CARON
LOGGED BY L. SOLKOSKI
SCALE 1:100
CORE STORED AT MEISTER
ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH ____ DIPPING ____ WITH DIP LINE AZIMUTH ____

COMMENTS CASING REMOVED: Hole drilled to intersect oxide zone beneath Trench 3

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE
143.2	-49°	046°	Sperry				

GEOLOGY / SIGNIFICANT ASSAY AVERAGES

FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
0.0	7.0	Casing			Nothing significant			
7.0	23.8	U.C.ST.						
23.8	28.87	U.C.FS.						
28.87	41.7	U.C.MS(?)						
41.7	46.3	U.C.FS						
46.3	52.6	U.C.FS						
52.6	53.9	U.C.QS						
53.9	57.0	U.C.QS+MS(?)						
57.0	66.8	U.C.FS						
66.8	69.8	U.C.COX						
69.8	99.0	U.C.Marble						
99.0	110.0	L.C.MS+SS+PH Schist						
110.0	119.4	L.C.MS ? +SS						
119.4	145.3	L.C.SS						

--R-82

CORDILLERAN ENGINEERING **DIAMOND DRILL RECORD**

PROPERTY MEISTER D.D.H. MR-83-1 Page 1 of 11

AREA West Zone
CLAIM MR 140
GRID CO-ORDS Line 27+75E
GRID CO-ORDS Station 44+60N
SURVEY CO-ORDS Northing
SURVEY CO-ORDS Easting
ELEVATION 1185.9 m.
STICK UP 0.6m

SECTION
AZIMUTH (T) 270°
INCLINATION -45°
DEPTH Hole 145.3M
DEPTH Casing 6.1 M
DEPTH Overburden 7.0M
CORE SIZE N.Q.
CORE RECOVERY 64.6%

DATE Started Aug.14/1983
DATE Completed Aug.15/1983
CONTRACTOR CARON
LOGGED BY L. SOLKOSKI
SCALE 1:100
CORE STORED AT Meister
ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH ____ DIPPING ____ WITH DIP LINE AZIMUTH ____

COMMENTS CASING REMOVED: Hole drilled to intersect oxide zone beneath Trench 3

SURVEY DATA							
DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE
143.0	-49°	046°	Tropari				

GEOLOGY					SIGNIFICANT ASSAY AVERAGES			
FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
0.0	7.0	CASING			Nothing significant			
7.0	23.8	U.C. ST.						
23.8	28.87	U.C. FS.						
28.87	41.7	U.C. MS(?)						
41.7	46.3	U.C FS						
46.3	52.6	U.C. MS						
52.6	53.9	U.C. QS.						
53.9	57.0	U.C. QS.+MS(?)						
57.0	66.8	U.C. FS.						
66.8	69.8	U.C COX						
69.8	99.0	U.C. MARBLE						
99.0	110.0	L.C. MS+SS+PH SCHIST						
110.0	119.4	L.C. MS?+SS						
119.4	145.3	L.C. SS.						

JDR ..-2...

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER - YUKON TERRITORY
DDH MR 83-1 (-45°) L27+75E 44+50N (070°) PAGE 2 OF 11

LOGGED BY
DATE AUGUST 1983
N.Q COMMENTS SCALE 1:100

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
								CASING																							
5																															
7								7	UC		ST		M		Si 60	CBl	G 4/5	MS		T		Si 60	CGO	G/							
					LM|D<1			LIMONITE GENERALLY ALONG BEDDING																							
10	65°																														
	20° ?																														
15																															

DDR 83-2

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY Meister DDH 83-1 PAGE 3 OF 11

LOGGED BY

DATE August 1983

HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
16 20	20° +(-) 20° 30°				LM <1% ~1%				UC	G.	ST.		M		Si 60	Cbo ~ CB1	3/5 4 2 5	MS		1		Si 60	[illegible]	Gl	2%						
23.8 25	80-90° 85°				LM/D 15%/20%			U.C TIGER Rock STARTS 23.8	UC TI	G	FS		1		Si 60	CBo	LD	ST		1		SiP	(CBo)	LD	20%						
28.87 30	80°?				HEM <1%			AT 28.87 START MICA SCHIST? TO 41.7	UC	G	MS MS		1		Si 60	CBo	Gl	ST		1		Si 60	CBl	G 4? 5							

DDR - 83 - 2 MR

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 4 OF 11

LOGGED BY

DATE AUGUST 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									UC	G	MS.		1		Si60	CB0	G1	ST.		1		Si65	CB1	G 4~5							
31																															
								DIFFICULT TO DETERMINE DIP BEDDING FROM 30m TO 41m DUE TO BROKEN CORE																							
																	4B ~ DB														
					LM/D 15%~30%																										
35																															
					HEM <1%																										
40					LM/D 10%~15%																										
41.7	60°							41.7	UC (TL)		FS		1		Si60	CB0	LB	~~[illegible]~~ ST		1		Si60	CB0	LB							
	45°																														
					LM/D SIDERITE? 5%																										
45																															

CORDILLERAN ENGINEERING   DIAMOND DRILL RECORD

PROPERTY MEISTER   DDH 83-1   PAGE 5 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
46									UC (TI)		FS		1		Si60	CBO	LB	ST.		1		Si60	CBO	LB							
50	30°? 35°? 70°? 90°?				LM/D? V? FRACT 5%?			46.3 U.C SILTSTONE? MS.? STARTS AT 46.3 TO 526M.	UC		MS		1		Si 60	CBO	B LB G 5 G 2	ST		1		Si 60	CBO	G3?							
					HEM.? 1%~2%			52.6	UC	G	Q.S.		1		Si 30-40?		G 5	MS		1							53.4 #93577 53.9	<0.01	0.03	<0.02	
55	60°? 70°? 20°				HEM. 5% LM<1% QUARTZ 5% +(-)			53.9	UC	G	QS (T.I) MS? COX?		1				G 5	MS.		1							55.4 #93578 56.9	0.01	0.04	0.02	
60	10° 70°				LM/D 15%~ 2%			57	UC (TI)	G	FS		1		Si .60	CBO	LB LB	ST		1		Si 60	CBO	LF							

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 6 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS		UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
										UC T3?		FS		1		Si60	CBO	LB	ST.		1		Si60	CBO	LB							
61																																
	80°				LM/D 15%~ 30%																											
	60°																	LB														
65	85°?																															
	60°?																															
					HEM(?) 15%~ 25%(?) LM			CORE ANGLE DIFFICULT TO MEASURE IN COX(?) ZONE POSSIBLE COX? SAMPLE FOR ANALYSIS	66.8	UC BS	G	COX? FS?		1 1				57 4/2	MS ?									67.6 #93576 7.19	0.01	0.04	<0.02	
70	45°				Do/D 1%~3% ? LM/D <5% MM? <2%				69.8	UC	G	MAR		1		Si30? 20?	Ca 80?	5B 7/1 & 7/2														
	70°																															
75																																

JDR -2.....

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 7 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
76								
77	58°				Mn/D <2%			
	50°							
80								
	45°							
								MUD SEAMS 83.5 ~ 89.0
85					Dol/D <1%(?)			
	40°							
90								

HOLE DEPTH	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
	UC	Q	MAR		1		Si 20? 30?	Ca 80?	5B 7/1 or 7/2														
76																							
80																							
85																							
90																							

DR· -2.....

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 8 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
91								FROM 92.05 ~ 92.51 RODS DROPPED IN CARBONATE UNIT (KARST FEATURE?) SLIGHT KARST(?) SOLUTION CAVITIES NOTED THROUGHOUT CARBONATE UNIT WITH EVIDENCE OF REMNANTS OF LIMONITE/ clay FILLINGS.	UC		MAR		1		Si 20 ? 30°	Ca 80?	5B 7/1 or 7/2														
	80°~ 90°																														
95																															
					HEM. <1% LM/D <2%?																										
99	75°							99	LC	G	SCHIST + SS MS?	F	1		Si 10~ 20?		G1 ~ G2	MS	F	1		Si 60	CLD	G5 ~ G7							
100					LM/D 10%~ 30% MnD 1%?																										
	80°~ 90°?																														
105																															

DR- -2

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY MEISTER

DDH 83-1

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LOGGED BY

DATE AUG 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
106	45°							
	35°							
110								
	20°							
					LM/D 15%~20%			
115								
	20~25°				LM/D 25%			SERICITE ALTERATION 111 m to 127 M is PREVALENT 30%~50%(?) OF THE CORE.
119.0								
119.5–119.8	30°?				LM/D 20%?			COX?
120								

HOLE DEPTH	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
106	LC	G	Schist + SS + MS?	F	1		Si 10~20?		G1~G2	MS	F	1		Si 60	CBO	G5~G7							
110	LC	G	MS + SS?	F	1		Si 60	CBO		SS	F	1		Si 10~20		G1~G2							
119.0																			119.0M #93579	0.02	0.20	0.86	
119.5–119.8	LC	G	SS Schist	F	1		Si 10~20		G1~G2	MS	F	1		Si 60	CBO	G5~G7							

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CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 10 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									LC	G	SS + SCHIST	F	1		Si 10 ~ 20?		G1 ~ G2	MS	F	1		Si 60	CBO	G5 ~ G7							
121								FROM APPROX. 121 M TO END OF HOLE; BADLY BROKEN CORE. FAULT ZONE?																							
	25° ?																														
125	70° ?							LIMONITE CONTENT OF HOLE (TO END FROM 125 APPROX) RANGES 10% ~ 30% [illegible] up to 50%(?)																							
	10° ~ 15° ?																														
130																															
135																															

DDR - 83 - 2 MR

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-1 PAGE 11 OF 11

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∀	FOLIATION ∀	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									LC	G	SS + SCHIST	F	1		Si 10~20?		G5 ? G7	MS	F	1		Si 60	CBO	G5 ~ G7							
136																															
140	80°																														
	80° ?																														
145																															
								145.39 END HOLE																							

DDH MR83-2

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CORDILLERAN ENGINEERING   DIAMOND DRILL RECORD

PROPERTY MEISTER
D.D.H. MR 83-2
Page 1 of 18

AREA WEST ZONE
CLAIM MR 140
GRID CO-ORDS Line 27 + 75E
GRID CO-ORDS Station 44 + 60N
SURVEY CO-ORDS Northing
SURVEY CO-ORDS Easting
ELEVATION 1185.9
STICK UP 0.4

SECTION
AZIMUTH (T) 070°
INCLINATION -85°
DEPTH Hole 238.3m
DEPTH Casing 6.1
DEPTH Overburden 6.1 q
CORE SIZE N.Q.
CORE RECOVERY 90.8%

DATE Started AUG. 19, 1983
DATE Completed AUG. 24, 1983
CONTRACTOR CARON
LOGGED BY L. SOLKOSKI
SCALE 1:100
CORE STORED AT MEISTER
ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH
____ DIPPING ____ WITH DIP LINE AZIMUTH ____

COMMENTS TRICONE TO 6.0m; CASING LEFT IN; HOLE DRILLED TO INTERSECT OXIDE ZONE BELOW TRENCH 3 AND TO DETERMINE STRUCTURE.

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE
165.2	-82°	046°?	Sperry				
230.7	-79°	018					

GEOLOGY / SIGNIFICANT ASSAY AVERAGES

FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
0.0	6.3	CASING			NOTHING SIGNIFICANT			
6.3	7.3	U.C.ST						
7.3	17.6	U.C.MS						
17.6	30.9	U.C.ST						
30.9	33.9	U.C.MS						
33.9	34.1	U.C.ST						
34.1	44.8	U.C.FS						
44.8	46.3	U.C.MS						
46.3	54.2	U.C.FS	WITH POSSIBLE COX ZONE (?)					
54.2	72.3	U.C.FS						
72.3	74.1	U.C.MS						
74.1	80.2	U.C.FS						
80.2	83.9	U.C.QS						
83.9	89.5	U.C.FS						
89.5	90.8	U.C.FS	COX (?)					

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CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY
D.D.H.
Page 2 of 18

AREA
CLAIM
GRID CO-ORDS Line
Station
SURVEY CO-ORDS Northing
Easting
ELEVATION
STICK UP
SECTION
AZIMUTH (T)
INCLINATION
DEPTH Hole
Casing
Overburden
CORE SIZE
CORE RECOVERY
DATE Started
Completed
CONTRACTOR
LOGGED BY
SCALE
CORE STORED AT
ALL SYMMETRY DETERMINATIONS LOOKING WITH DIPPING WITH DIP LINE AZIMUTH
COMMENTS

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE

GEOLOGY					SIGNIFICANT ASSAY AVERAGES			
FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
90.8	179.8	U.C. Marble						
179.8	189.9	U.C.(TI) GRAPHITIC SCHIST						
189.9	238.4	U.C.ST						
238.4	END HOLE							

DDR-83-2MR

CORDILLERAN ENGINEERING   DIAMOND DRILL RECORD

PROPERTY Meister   DDH 83-2   PAGE 3 OF 18

LOGGED BY ____

DATE AUG. 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
5								CASING
6.3	90°				LM|D<1 LM|V<3%		QZ|V <1%	E=whisps
7.3	? 76°							
10	68°				LM|D<1 LM|V<3% LM|D<1 Py|D|1% LM|V<3% Py 1%|D LM|V<3% Py 1%D			
15								

	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
6.3	UC MS	G	St		M		Si 60	CB1	G 4~5	MS		1		Si 60	CB0	G1	20% 40%						
7.3	UC	G	MS		1		Si 60	CB0	G 1	St		E		Si 60	CB1	G 4~5	20%						

UDR-83-2

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-2 PAGE 4 OF 18

LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									UC	G	MS		1		Si60	CB0	G5	ST			M	Si 60	CB1	G 4~5		70~40					
16																															
17.6									UC	G	ST		1		Si60	CB1	G 4/5~7	MS			M	Si 60	CB0	G1		70~50					
																										10~15					
																	G3~4														
20																															
	9°																									<5					
					LM<1%																										
	0°				LM<1%																										
	38°																														
	0°																														
																										<5					
																										10~15					
25	52°																														
					LM<1%																										
	57°				LM<1%																										
																										<7%					
	40°																														
	44°																														
30																															

DDR - [illegible]-2

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

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LOGGED BY

DATE AUG. 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
					LM 1%~5%				UC		ST		1		Si60	CB1	LB G4	MS			M	Si60	CB1	G 4~5	<1 15						
31									UC	G	MS		1		Si60	CB0	G1 ?	ST		1		Si60	CB0		10%~30%						
33.9									UC	S	ST		1		Si60	CB0	G3	MS		1		Si60	CB0	3	20%~30%						
34.1									UC TI	G	FS		1		Si60 CB0	(6)	LB	ST		1		Si60	CB0	LB	50%						
35					AT 36.2 10% LM																										
					LM/SID <1=10%~15%											[illegible]									20%~30%						
	27°																														
40	53°																														
	75°																														
	59°				LM/SID <10%~15%																										
44.8									UC	G	MS		1		Si60	CB0	G1	ST	1	1		Si60	CB0	G3	10%~20%						
45																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
46	22°							
	30°							
					LM 5% ~ 10%			
	30° 0° M							
50								
	58°							
	62°							
53.9 – 54.2								POSSIBLE COX ?
	47°							
55					LM 15% ~ 20%			
	50°							
	M ?							
	M?							
	0° M							
	0° M				LM 5% (K)			
60	51							

Depth	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
	UC	G	MS		1		Si 60	CBO	G1	ST	1	1		Si60	CBO	G3							
46.3	UC	G	FS		1		Si60	CBO	LB	ST		1		Si60	CBO	LB							
53.9	CQ?	G	FS(?)		1		Si60	CBO	5P 4/2	MS?													
54.2	UC	G	FS		1		Si60	CBO	LB	ST		1		Si 60	CBO	LB							

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
61	7°/S							
	50°							
	56°							
	0°|M							
	55°							
65	32° 50°							
	0°|M 40°							
	0°|M							
	0°|M							
70	0°|M							
								723
					LM 5% +(-)			
	57°							741
75	/M 13°							

UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
UG	G	FS		1		Si60	CB0	LB	ST		1		Si60	CB0	LB							
UG	G	MS		1		Si60	CB0	G5 ~ G7	ST		1	M	Si 60	CB1	LB	10% (5)						
UG	G	FS		1		Si60	CB0	LB	ST ? GRIT		1		Si60	CB0								

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HOLE DEPTH	BEDDING ∢	FOLIATION ∢	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
	27°								UC	G	FS		1		Si 60	CBO	LB	ST		1		Si 60	CBO		30%~40%						
76																															
	72°																														
	70°																														
	0° M																														
80																															
80.2									UC	G ~ S	Q:S ?		? 1		Si 60 ~Si 30	Qtz ?	CT ~ GR	MS? COX?		1		Si 60	CB1 ?	G5	20% 5% ~ 10%						
	0° M				LM <1%																										
	0° M				HEM 10% ~ 15%+																										
	0° M				Qtz 10% (-)																										
	70°																														
83.9									UC	G ~ S	FS		1		Si 60	CBO	LB	ST		1		Si 60	CBO	LB	30% ~ 40%						
85	65°																														
					LM 20% ~ 30%																										
	71°																														
	80°																														
	70°				HEM 20%~30% (?)																										
89.5								POSSIBLE COX? VERY LITTLE MATERIAL RECOVERED.	UC	G	COX? FS?		1		Si 60		SP 4/2	MS?													
90																															

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HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
					2%~ HEM			Possible Cox?	VC	G	Cox?	1	1		Si 60		5P 4/2	MS?													
								90.8																							
91	50°								UC	S	MAR	F	Fn .2		Si 60 9 50 30	Cq 80%	5B 7/1 9R 7/2														
	45°																														
					Do 1%~																										
					2%																										
95	28°																														
	31°																														
	38°				Do <1%																										
100	52°				Do <1% Mm 2%																										
	40°																														
	28°																														
	20°																														
105																															

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HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									VC	8	MAR	F	h 2?				5B 7/1 5Y 7/2														
106																															
	11°																														
					Mn 2%~ 3%																										
	0° M																														
110																															
	0° M																														
	0° M																														
					D 0 +? 3%																										
115																															
	0° M																														
	0° M																														
					Li 5%~ 10%																										
120																															

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HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
	0°/M								JC		MAR	F	? 2?				5B 7/1 7/2 ?														
121																															
	0°/M																														
								124.0			Bx		Bx																		
								124.5																							
125	M/19°																														
	M/19°																														
130	M/20°					D° 30% ~x? 50%																									
	M/19°																														
					LM <1%																										
135																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									UC		MAR																				
136	20°				Mn 30% ~ 20% (?)			Manganese content > from about 137 m to the graphitic contact. Range Mn ~ 5% or 20% along fractures of carbonate (MARBLE?)																							
					Lm < 1%																										
	20°																														
140																															
	10°																														
					Lm < 1%																										
	24°																														
145	M 17°				Mn 30% ~ 20%																										
	22°																														
150																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
									UC		MAR																				
151	20°																														
152																															
153	20°				Mn 3%~ 20%Cl																										
					Lm<1%																										
155	M 18°																														
	15°																														
159																															
160	M 0° l 13°																														
163	M 0° l 20°																														
165	M 0° l 25°																														

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HOLE DEPTH	BEDDING ∀	FOLIATION ∀	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
					MN				UC		MAR																				
166	0°				15%–20%																										
	5°																														
170																															
	M				MN <5% DO 1%																										
	5°																														
175																															
								AT APPROX 179.8 IS CONTACT WITH. TI.? GRAPHITIC SCHIST (CARBON) + Py, TO 189.9M																							
	5° 2 20°							179.8	UC	S	FS	1	1				B														
180					LM 10%+																										

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY
185'	M 5° ~ 10° M 5° ~ 10°				GR? LM <1% HEMATITE 2%~5%(?) Py 10% QTZ <1%			APPEARS GRAPHITIC WITH MINOR DISSEMINATED PYRITE	UC	S	FS	1	1				B									
189.9 190 195					Py <1% QTZ 2%~3%(?)			AT 189.9 IS CONTACT WITH CONTINUED SEQUENCE OF UC? TI UNALTERED? CALCAREOUS ST(?) WITH BLACK PARTINGS TO END OF HOLE.	UC	G	ST? FS?	1	1		Si 60	CBo	G3 GW	MS ?		1		Si 60	CA	G 5	20% ~ 30%	

ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
184.0 #93580	0.01	0.02	0.02	
185.0 #93581	<0.01	0.02	0.05	
186.0 #93582	<0.01	0.02	<0.02	
187.0 #93583	<0.01	0.02	0.06	
188.0				

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HOLE DEPTH	BEDDING ∀	FOLIATION ∀	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									UC	G	ST? FS?		1		SiO	CbO	G3 ~ G4	MS?		1		SiO	CBo ~CBN	G5	20% ~ 30%						
	0° ~ 5° ~ 10°				Py <1% Qtz 2%~3%(?)																										
200																															
205																															
	0° ~ 10°																														
210																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
	M 0°~10°				Py 4%			
215								
220	M 0°~10°				LM/Qtz 1%			
					Py<1%			
225								

UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
UC		ST? FS?		1		Si60	CB0	G3~G4	MS?		1		Si60	CB0 or CB1	G5	20%~30%						

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HOLE DEPTH	BEDDING ∢	FOLIATION ∢	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
								CORE ANGLES ON BEDDING VARY LITTLE; FROM 0°~15°	U_c		ST? FS?		1		Si60	CBO	G3 ~ G4	MS?		1		Si60	CB0 or CB1	G5	20% ~ 30%						
226					Py<1%																										
								CORE CONTINUES TO BE VERY CALCAREOUS TO END OF HOLE																							
230																															
232																											232.0 #93584 233.0	0.01	0.01	0.03	
233					Py<1%																										
235	0° ~ 15°																														
238.4								238.4M END HOLE.																							

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CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

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AREA WEST ZONE
CLAIM MR 123
GRID CO-ORDS Line 30 + 65E
Station 43 + 20N
SURVEY CO-ORDS Northing
Easting
ELEVATION 1210.5m probably at - (1217.0
STICK UP 0.6
SECTION
AZIMUTH (T) 070°
INCLINATION -65°
DEPTH Hole 75.3m
Casing 6.1
Overburden 6.1
CORE SIZE N.Q.
CORE RECOVERY 69.0%
DATE Started AUG. 24, 1983
Completed AUG. 25, 1983
CONTRACTOR CARON
LOGGED BY L. SOLKOSKI
SCALE 1:100
CORE STORED AT MEISTER
ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH ____ DIPPING ____ WITH DIP LINE AZIMUTH ____

COMMENTS HOLE SHUT DOWN DUE TO BAD GROUND; SAND CAVES; TIGHTENING UP OF RODS; NO WATER RETURN AT ALL. OXIDE ZONE INTERSECTED, HOWEVER, AT 34.13 METERS. TRICONE TO 6.1 m; 3.1 m OF CASING LEFT IN. HOLE DRILLED BELOW TRENCH II

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE

GEOLOGY / SIGNIFICANT ASSAY AVERAGES

FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
0.0	6.1	CASING			NOTHING SIGNIFICANT			
6.1	8.8	U.C.FS						
8.8	11.7	U.C.ST						
11.7	20.0	U.C.FS						
20.0	25.0	U.C.ST						
25.0	35.6	U.C.QS						
35.6	46.2	U.C.MARBLE						
46.2	47.9	U.C.FS						
47.9	75.3	L.C MARBLE						
END HOLE								

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5								CASING																								
	50° 30°				LM 30%				6.1	UC	G	FS		1~2		Si60	CB0 Ca 10%~20%	LB	ST		1		Si60	CB0 or CB1	LB	30%						
10	70° M 5° 5°				LM <5%				8.8	UC	G	ST		M		Si60	CB1 Ca 3%~5%	G 4~5	MS ?		1		Si 60	CB0	G1	10%						
15	60° 40° M 5° 2				LM 10%~40%				11.7	UC	G	FS		1		Si60	CB0 Ca 30%~40%	LB	ST		1		Si60	CB0	LB	30%~50%						

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16	80° 80°~90° 10°~10° 45°								UC	G	FS		1		Si 60	CB0? Ca 30%~40%		ST		1		Si 65	CB1?	G 3~5?							
20	45°? 10°?~20° 10°~20°				HEM 10%~ LM 10%~20%			20.0 FROM 23.47 ~ 29.6 difficult to measure core angles. Core badly broken. (Fault ZONE?) POSSIBLE OXIDE (WEAK) ZONE. IF COX ZONE	UC	G	ST		M		Si60	CB0? CB1 Ca 10%~15%	G 4~5	MS		1		Si60	CB0	G1	10%~20%						
25 30	5°~10° 80°~90 20°				HEM			25.0 Q.S = QUARTZ SILTSTONE 25.0M ~ 35.6M = POSSIBLE COX ZONE INTERBEDDED WITH QUARTZ SILTSTONE AND MICA SCHISTS.	UC	G	Q.S +(-) COX		1		Si40~60?	CB1 QTZ Ca 1%	G 7~9	M.S ? COX?		1		Si60?	CB0	G1			24.9 #93588 26.5	0.06	0.74	0.08	

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HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
31	35° ? 20° ?				HEM 10%~15% LM 5%		Qtz	PROBABLE Q.S. +(-) COX ZONE CORE BADLY BROKEN (POSSIBLE FAULT ZONE)	U.C	G	Q-S +(-) COX		1		Si 40~60?	CBl (Qtz)		MS ? COX ?													
35					HEM 20%~30%																						34.1 #93589 35.7	0.09	3.70	0.20	
35.6	20° ?				MM 15%~20% Do 30%~40%(?) MM 15%~20%			MORE DOLOMITIC?	U.C	G	MAR	F	1		Si 20%~30%(?)	Ca 80%	5B 7/1~7/2														
	5°							FROM 37 M ~ 38.7 M SOLUTION CAVITIES EVIDENT IN CORE IE: KARST FEATURES (?)																							
40								LOST CORE IN THIS INTERSECTION. POSSIBLE KARST TOPOG (?) (REFLECTION THEREOF) FROM 38.7 M TO 42.1 M																							
42.1	20° 20°				Do <3% MM 1%(?)																										
45																															

DR-[illegible]-2 [illegible]

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS
46								
	88°				LM 30%~40%			46.2
	30°							
					Do <30% LM 10% Mm <5%			47.9 MARBLE TO END OF HOLE
								FROM APPROX. 49.0 M ~ 53.0 M CORE BADLY BROKEN; POSSIBLE FAULT ZONE.
50	60° 35° 30° 35°							
	50°				Mm 5%~10% LM <1% HEM <1%			54.6 ~ 55.5 CORE BADLY BROKEN POSSIBLE FAULT ZONE. SOME OXIDE MATERIAL HERE?
55								
	50° 50° 60°				LM 15%(?) Mm 5%			FROM 57.3 ~ 60.1 CORE BROKEN IN SEVERAL PLACES, POSSIBLE FAULT /SHEAR ZONE(?)
60	40°?				Mm 15%			

HOLE DEPTH	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
46.2	UC	S	FS ?		1		Si 60	CBO Ca 30%		ST		1		Si60	CBO	LB							
47.9	UC		MAR		F		Si 20%~30% (?)	Ca 70%~90%	5B 7/6 ~ 7/2														
54.6																			54.6 * 93590 55.5	0.04	0.16	0.04	

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
					Mn 1% +(-)				UC		MAR																				
61																															
	70°																														
					Mn 1% +(-)																										
	20°																														
					Do? 2%																										
65																															
	20°?																														
					Do 2%																										
	50°				HM Mn } 15%																										
70																															
					Mn 3% ~ 5%?																										
	?30°																														
	?35°				Do 2%																										
					LM 1%																										
75					Mn 2%			HOLE ENDS AT 75.3 IN CARBONATE																							

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AREA	WEST ZONE	**SECTION**		**DATE** Started	AUG. 26, 1983
CLAIM	MR 123	**AZIMUTH (T)**	030°	**DATE** Completed	SEPT. 1, 1983
GRID CO-ORDS Line	31 + 90E	**INCLINATION**	-88°	**CONTRACTOR**	CARON
GRID CO-ORDS Station	43 + 00N	**DEPTH** Hole	236.5m	**LOGGED BY**	L. SOLKOSKI
SURVEY CO-ORDS Northing		**DEPTH** Casing	3.1m	**SCALE**	1:100
SURVEY CO-ORDS Easting		**DEPTH** Overburden	3.1m	**CORE STORED AT**	MEISTER
ELEVATION	1245.1	**CORE SIZE**	N.Q		
STICK UP	0.6m	**CORE RECOVERY**	70.7%		

ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH ____ DIPPING ____ WITH DIP LINE AZIMUTH ____

COMMENTS HOLE DRILLED TO INTERPRET ANOMALY (GRAVITY) #1.
TRICONE TO 3.1m: CASING LEFT IN.

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE
117.9	-82.0°	N20W					
209.0	-77.5°	N32°W					

GEOLOGY / SIGNIFICANT ASSAY AVERAGES

FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
0.0	3.1	CASING			NOTHING SIGNIFICANT			
3.1	8.8	U.C.FS						
8.8	11.9	U.C.ST						
11.9	13.7	U.C.QS						
13.7	13.9	COX ?						
13.9	31.1	U.C.CARBONATE						
31.1	50.6	U.C.MS						
50.6	58.5	U.C.CARBONATE						
58.5	236.5	L.C.SS+SCHIST						
236.5	END HOLE							

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HOLE DEPTH	BEDDING ∡	FOLIATION ∡	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
								CASING																							
5	20° 85°~90° 40°				LM<5%			3.1	UC		FS		1		Si60	CBO Ca 30%~40%	LB	ST		1		Si 60	CBO ?	B							
10	90° ?				LM<3%			8.8	UC		ST		M					MS													
					LM<2% HM<8%			11.9 11.9 ~ 13.7 QUARTZ SCHIST(?) w SILTSTONE minor HEM/ILM.	UC		QS ?	?			?	?											11.9 #93591 13.7	0.08	0.40	0.05	
								13.7			COX?																				
15	60°				LM<2% <10%			13.9		S	MAR		1		Si60 30?	Ca 90	G 1~3														

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
									Uc		MAR		1		Si60	Ca 90	G 2 3														
16					LM<3% Mm<2%																										
	60°																														
20																															
	60°																														
	80°?																														
25																															
					Mm <0.5% Hm<15%																										
	? 80°																										28.6 #93592 29.5	0.01	0.82	0.05	
30	75°																														

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HOLE DEPTH	BEDDING ∀	FOLIATION ∀	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									Uc		MAR				Si? 60 30	Ca 90															
31	60°							31.1	UC	G	MS		1		Si 60	CB 12 2	G 1	ST.	E			Si 60	CB 1		? ? 5	20					
35																															
	45°																														
	50°							38.4m ~ 50.6m FAULT ZONE DIFFICULT TO IMPOSSIBLE TO MEASURE CORE ANGLES																							
40					LM 10% ~ 15% HM 3%			44 M ~ 50.6 M POSSIBLE COX ZONE?																							
					HM 15% ~ 25% My 10% ~ 20%																						42.7 #93593 44.2	<0.01	0.12	0.02	
45									UC	G	Cox?																#93594 45.1	<0.01	0.16	0.02	

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HOLE DEPTH	BEDDING ∢	FOLIATION ∢	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
46 50					HEM 50% +(-) Mn 40% +(-) LM 20%			45~50.6 CORE BADLY BROKEN PROBABLE FAULT ZONE. 44.0 M TO 50.6M POSSIBLE COX ZONE.	U.C	G.	COX?																#93595	0.16	1.29	0.52	
					Mn 10%(?)				UC	S	MAR DOL?				Si 60	Cb Ca 70~80											50.6 #93596 51.2	0.02	0.96	0.05	
								LOST CORE 52.5~54.0																							
55																															
	10°				LM 5% HEM 60~70% Mn 30~50%			LOST CORE 57.3 ~ 58.5 POSSIBLE COX ZONE (BOTRYOIDAL HEMATITE)	UC	S	COX ZONE																				
60	50°							LOWER CLASTIC ZONE OF ARENACEOUS PHYLLITIC SCHIST, SANDSTONES, —> TO BASAL QUARTZITES W MINOR MARIPOSITE	LC 1	G	PH SCHIST SS. BASAL QTZITE FS	L 2	/ ~		Si 70~80	Cb Q 3	G 1~3	MS		/		Si 60	Cbo		G 1~4						

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HOLE DEPTH	BEDDING ∡	FOLIATION ∡	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									lC	G	PH SCHIST SS → BASAL DEPOSITS		1		Si 60~80	Cbl ?	LB	MS?		1		Si 60	Cbl ~ 2	LB							
61	5°				LM 10%~15%			CORE ILLUSTRATES VARIOUS ZONES OF > OR < SS / OR / SERICITIC SCHIST FEATURES TO END OF HOLE.																							
	50°?																														
	? 20°																														
65																															
	40°?				LM 5%~15% (?)																										
	70° 20°? 35°																														
70	?																														
	30° 30° 20°~25° 40°																														
	50°																														
75	10~20°																														

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
76 80	10° ?10°~20° 20°? ?20° 10°~20° 50° 10°~10°				LM 10%~15%(?)			81.4~84.6	LC		1H SCHIST SS. Qzt2		1		Si 60~80	CBl ?	LB	MS ?		1		Si ? 60	CBO 2	LB							
							5~10° QTZ VEIN w̄ LM HM	QUARTZ VEINS OXIDIZED WITH LM/HM MN. HEAVILY FAULTED			Col.																				
85 90							10° QTZ VEIN w̄ LM QTZ VEIN 5°	QTZ VEIN 3CM THICK w̄ MUSCOVITE/LM																							

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HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
								CONTINUED	LC		PHYLLITE SCHIST SS, QTZT		1		SIG ~ 80?	CBI?	LB														
91																															
	28° ?																														
95	80° ?																														
	20°				HEM		QTZ VEIN 45°?																								
100	65°				%~ 30 50%			CHECK OXIDE ZONE QTZ VEIN.																							
																											101.4 #93597 101.8	0.13	1.32	1.37	
105	4°																														

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
					LM 5%~10%		?		IC		PH. SCHIST SS QTZT ?	ss	1		SiO_2 ~80%?	CBl	LB														
106																															
							QTZ vein 3.5 cm thick																								
	60° 30°																														
110	5°																														
	10°							10.8m ~ 11.7m more quartzitic sandstone type Rock.																							
115	? 10°																														
	30°																														
	25°																														
	? 30°																														
120																															

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121	20°								LC		PHS. SS		1		Si6 80.3	CB1	LB														
	25°																														
	5°																														
125																															
	0°																														
	0°																														
130	30°																														
	50°																														
	20°																														
135	50°																														

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
134	? 20°								LC		Ph Schis SS		1		Sico ? Bo?	cBl ?	LB														
	50°																														
	5° 10°																														
140																															
	0°																														
	5° 10°																														
	30°																														
145																															
	10° 20°																														
	5° 20°																														
150																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
									IC		PH SCHIST. SS.		1		Si 60? 40	CBi?	LB														
151																															
	40?																														
	40°																														
	70°																														
	55°																														
	30°																														
155								155.1			Cox?																				
	40				LM HM 5%~			[illegible]																							
								156.6																							
	30°																														
	20°																														
160	30° 35°																														
								[illegible]																							
	45°							161.8			Cox?																				
								[illegible]																							
	40°				LM HM 5%~ K-%																						162.8 #93600 164.3	<0.01	0.16	0.06	
								163.9																							
	40?																														
165	40°																														

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HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
	10°								2C		Ph Schist SS. ~~SS~~		1		Si 60 [illegible]?	Cbl?	LB														
166																															
	30°																														
170	30°																														
	?30°																														
	20°																														
	25°																														
175								FROM APPROX 171 m ~ 181.7 m CORE MORE PHYLLITIC SCHISTOSE WITH ARENACEOUS TEXTURE																							
	40°																														
	10°				HEM. <3%																										
	10°																														
180																															

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HOLE DEPTH	BEDDING ∀	FOLIATION ∀	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									LC		PH Schist SS		1		Si 60 ~? 80	Cb!	LB														
181	20°				HEM <5% LM 3%		QTZ. VEINS																								
							QTZ. VEINS																				181.7 #93598 183.5	<0.01	0.22	0.07	
185																											185.0 #93599 186.5	<0.01	0.16	0.11	
	60°																														
190																															
	30°																														
	20°																														
195																															

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HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									Lc		PH SCHIST SS		1		Si60 ~ 80	Cbl	LG														
196								FROM 194.0 ~ 199.0 CORE BROKEN AND CORE ANGLES DIFFICULT TO MEASURE.																							
	0° ~ 10°																														
	20°				HEM <2% LM 1%			196.0 m ~ 199.0 m CORE MORE OF AN ARENACEOUS PHYLLITIC SCHIST																							
200																															
	50°?																														
	5° ~ 10°																														
	0° ~ 5°																														
205																															
	30° 25°							204~ 206 ~ 212 CORE AGAIN MORE OF A PHYLLITIC SCHIST; ARENACEOUS WITH POSSIBLE ILLUSTRATIVE STRATIGRAPHIC TOPS DIRECTION AT 210.7 m ~ 210.8 m. STRAT. TOPS TOWARDS TOP OF HOLE																							
	40° 30°																														
210																															

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HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									LC		PH SERICIT SS QTZT.		1		Si60 ~ 80?	CB1	LB														
211								FROM 212 M TOWARDS END OF HOLE, MORE OF THE PREDOMINANT BASAL SANDSTONE QUARTZITE UNIT																							
	?10°~20° ?10°~20°				LM 2%~5%																										
215	?30°				LM <2%																										
	10°~20°																														
	0°~10°																														
220	0°~10°																														
	0°~10°																														
225	0°~10°																														

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																												ASSAYS			
HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
									LC		PH SCHIST SS QTZT		1		Si60 ~ 80?	CBl	LB														
226	0°~10°																														
	0°~10°																														
230																															
	20°																														
	0°~10°																														
235	0°~10°																														
236.5								236.5 END HOLE																							

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AREA	WEST ZONE	**SECTION**		**DATE** Started	SEPT. 1, 1983
CLAIM	MR 138	**AZIMUTH (T)**	030°	**DATE** Completed	SEPT. 6, 1983
GRID CO-ORDS Line	28 + 00E	**INCLINATION**	-88°	**CONTRACTOR**	CARON
GRID CO-ORDS Station	42 + 00N	**DEPTH** Hole	381.0m	**LOGGED BY**	L. SOLKOSKI
SURVEY CO-ORDS Northing		**DEPTH** Casing	7.6	**SCALE**	1:100
SURVEY CO-ORDS Easting		**DEPTH** Overburden		**CORE STORED AT**	MEISTER
ELEVATION	1172.3m	**CORE SIZE**	N.Q.	ALL SYMMETRY DETERMINATIONS LOOKING ____ WITH	
STICK UP	0.4m	**CORE RECOVERY**	92.9%	____ DIPPING ____ WITH DIP LINE AZIMUTH ____	

COMMENTS HOLE DRILLED TO INTERPRET ANOMALY (GRAVITY) #3.
TRICONE TO 7.0m. CASING LEFT IN.

SURVEY DATA

DEPTH	INCL.	AZ (T)	TYPE	DEPTH	INCL.	AZ. (T)	TYPE
122.5	-84.5°	N12°W	Sperry				
256.6	-83°						
381.0	-81°	N75W					

GEOLOGY

FROM	TO	UNIT	INT.	T.W.	Pb %	Zn %	Ag oz/t	
					SIGNIFICANT ASSAY AVERAGES			
0.0	7.0	CASING			NOTHING SIGNIFICANT			
7.0	11.0	U.C.FS						
11.0	26.9	U.C.ST						
26.9	47.2	U.C.QS						
47.2	381.0	U.C.FS+ST						
381.0	END HOLE							

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5																																
7					LM 10% ~15%			CASING 7. m	7.0	UC	G	FS		1		Si60	CBO Ca 20% ~ 40%	LB LG	ST. ?		1		Si60	CAO	G							
	50°																															
	55°																															
10	70° 30°																															
	60°								11.0	UC	G	ST?		1		Si60	CBI		MS		1		Si60	CBO	G1 ?							
	65° ~ 70°				LM 5%~ 15%																											
	? 20°																															
15																																

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16	40°							
	30°							
	20°		LM <3%					
	30°							
20			LM< 3%					
	50°							
	45°							
	50°							
25								
	40°							
								26.9
	55°							
	70°		LM 5% ~15%					
30								

UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
uc	G	ST.		1		Si 60	CB															
uc	G	QS.		1		Si 60	Ca 5%															

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HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
									VC	G	Q.S		1		Si60	CB1															
31	70°				LM 10% ~ 15% (?)																										
	60°																														
	30°																														
								FROM 34.0 M TO APPROXIMATELY 44.0 M. ARE SEVERAL BARREN/OXIDIZED QUARTZ VEINS (CONTAIN LM + ALTERED WEATHERED PY?) QTZ. VEINS IN SOME CASES CUT ACROSS BEDDING; OTHERS ALONG BEDDING. VEINS 1cm to >5cm thick OR WIDE.																							
35	50° ~ 55°																														
					LM <5%																										
					LM 10% ~ 15%																										
40	40° ~ 45°																														
					LM 10% ~15%																										
	45°				HEM 10% ~20% LM 3%			POSSIBLE COX (?) ZONE 44.1–44.3									5P 4/2										44.1 #93607 44.3	<0.01	0.04	<0.02	
45																															

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									UC	G	QS?	1	1		Si60	CB1															
46	35° 30°				LM <3%																										
								47.2 PROBABLY U.C. TI. (F.S) TO END OF HOLE.	UC	G	FS. + ST.?	1	1		Si 60	Cal		MS ?		1		Si60? 40?	Cal ?	G? 7~8 G? H							
	50°~ 55°																														
50	45°																														
	55° 45°																														
55	10° 20°																														
	20°				LM <1%																										
								58.6 58.6 START GRAPHITIC/Py ZONE TO 60.5 POSSIBLE UNALTERED COX (?) ZONE									G7 ~ B														
60																															

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																												% Pb	% Zn	oz/t Ag	% Ba
								GRAPHITIC / PYRITIC 60.5	UC	G	FS? St?	1	1		Si60	Cal	G-7	MS?	1	1		Si60 40?	Cal?	G7 ~ 8? G-4	?						
61																															
								61.3																							
	5°~10°							WEAKLY GRAPHITIC ZONE WITH DISSEM. PYRITE 62.2									G-5 G-7														
	55°																														
65	10°																														
	40°~35°																														
	5°							CORE IS CALCAREOUS 20%~40%																							
	0°~10°																														
	0°~10°																														
70	30°																														
	40°																														
								72.0																							
								WEAK GRAPHITIC HORIZON w PYRITE 72.8									G-7														
75																															

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																												ASSAYS			
HOLE DEPTH	BEDDING ∡	FOLIATION ∡	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
									UC		Fs St?	1	1		Si60	Ca1	G7	M5?	1	1		Si60 40?	Ca1?	G7 ~ G4							
76																															
	0°~20°				LM(?) 3%																										
								77.7 WEAK GRAPHITIC - PYRITE HORIZON									G7														
	45°																														
80	0°~10°				Py 2%																										
	40°							81.5																							
	0°~10°																														
	45°				Py 2%																										
	15°																														
85							QTZ V.																								
					SPH + BLEB MARIPOSITE		QTZ VEIN																					#93608 85.9 86.0	<0.01	0.19	<0.02	
								QTZ VEIN 86.8 WEAKLY GRAPHITIC ZONE UNTIL 90.4 M + MINOR Py									G7														
	0°~10°				Py 2%																										
	45°~50° 15°																														
90	45°																											#93609 89.3 89.33	<0.01	0.02	<0.02	

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								STRONG GRAPHITIC ZONE + Py
91								
	60°? 65°							
	75° 70°?							
					Py 2%			
95								
	65°							
	10°							
	30°? 20° 65°							
					Py 2% ~4%?			
	70° 20°							
	70°				Py 2%			
100								
	65°				Py 2%			
	40°				Py 3~4%			
	45°							
105								

Depth	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	% Pb	% Zn	oz/t Ag	% Ba
90.4	UC		FS ST?	1	1		Sil	Cal	Gg B														
91.6																							

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106	50°						// QTZ. VEIN 3cm		UC		FS		1		SiGo	Cai	G7	MS?	1	1		SiGo	Cai	G7							
	20°							106.6 STRONG TO VERY WEAK GRAPHITIC HORIZON									G7~B														
110 115	40° 35° 10° 0° 0° 45°						1cm QTZ. VS. //	108.8																							
120	0° 0° 20°				Py Graphite		1~2 cm // QTZ. VN.	116.2 GRAPHITIC (WEAK ~ STRONG ~ WEAK) + PYRITE HORIZON TO APPROX. 125.0M. CERTAIN SECTIONS CONDUCTIVE ON OHM METER									G7~B														

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																												% Pb	% Zn	oz/t Ag	% Ba
									UC		FS		1		Si60	Cal	G ? ~ B	MS ?		1		Si60 40?	Cal?								
121	0°						QTZ. STRING + Py	GRAPHITIC | PYRITIC HORIZON																							
	0°																														
124							1cm WIDE QTZ VEIN																								
125'	45~50°				Py 3%~5%																										
	?20°~20°																														
	10~20°																														
	10°~20°																														
130					Py 3%~5%																										
	40°						SPH	QTZ.VEIN w SPH + Pb (5°)																			131.3 #93601 131.6	<0.01	1.54	0.02	
	30°						SPH Pb	QTZ VEIN WITH SPH + Pb (5°)																			132.2 132.5	0.03	0.21	0.02	
	10~10°																														
135							SPH Pb	-134.7 ~ 135.8 APPROX. 0.5 ~ 1CM WIDE QTZ. VEIN																			135.0				

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							5°	SPH+Pb IN VERTICAL QUARTZ VEIN	UC		FS		1	1	Sil	Cal	G7~8	MS ?									#93603 135.7				
135.8								136.1 ~ 136.9 = QTZ. VEIN 1CM to < 0.5CM WITH SPH + Pb (VERTICAL VEIN)																							
136							0°~5°																				135.9				
																											#93604				
	50°																										137.2				
																											#93605 138.7				
					Py <1%~ 2%																										
140	35°																														
	10°~20°				14% <1% ~2%																										
142.6							0°~5°	QUARTZ VEIN 1Cm+ WIDE (VERTICAL VEIN) WITH SPH. + Pb																			142.9				
																											#93606				
143.9																											144.1				
145	35°~40°																														
	35°~40°																														
	10°~30° 30°																														
150	40°																														

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									4C		FS																				
151																															
	20°																														
	10~20°																														
155																															
	20~25°																														
	45°																														
	25°																														
160																															
	5~20°						1cm wide Qtz vn.																								
165																															

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									UC		FS																				
166	10°~15°																														
	0°																														
170																															
	0°																														
							1.5~2cm WIDE QTZ VEIN																								
	5°~10°																														
175																															
	20°																														
	60°																														
180																															

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	15°								UC		FS																				
181																															
	25°																														
185																															
190																															
	0°																														
	0°																														
195																															

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196	520°								Vc		FS																				
200																															
	15°																														
205																															
	5°																														
210																															

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									VC		FS																				
211																															
	10° 5																														
215																															
					Ca 20% ~30%																										
220	50°																														
	5°																														
225																															

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									VC		FS																				
226	50°																														
230								227.6M ~ 290 APPROXIMATELY MORE GRAPHITIC / PYRITIC Py 3% ~ 10%+(-)																							
																											231.2 #93610 232.3	<0.01	0.02	<0.02	
	72° 80°				Po b <1%	Po BLEBS																									
235	50°				Py 3% ~ 5%																										
240																															

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									UC		FS																				
241																															
	0°				Py 5%~10%+																										
245																															
	40°																														
250																															
					Py (+) 5%~10%																										
	60°				Po (+) <1% Py 1%																										
255																															

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									VC		FS																				
256	80°																														
					Py 5%~ 10%																										
260																															
265					Py 5%~ 10%																										
270																															

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									UC		FS																				
271																															
	40°				Py 5%~10%																										
275							1-2 cm wide QTZ veins																								
280	5°~10°				Py 5%~10%																										
	60°																														
285																															

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									UC		FS																				
286																															
290																															
295																															
300																															

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DATE September 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									uc		FS																				
301																															
305																															
310																															
315	75°				Py/Po Py 2% Po <1%																										

DR - 2

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY ONISSER DDH 83-5 PAGE 22 OF 26

LOGGED BY

DATE September 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	% Zn	oz/t Ag	% Ba
									UC		FS																				
316																															
320																															
325																															
330	5°																														

DDR-83-2MR

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY Meister

DDH 83-5

PAGE 23 OF 26

LOGGED BY

DATE September 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
									Vc		FS																				
331																															
335																															
	10°~20°																														
340																															
	75°~80°																														
345																															

DDR-83-2MR

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-5 PAGE 24 OF 26

LOGGED BY

DATE September 1983

HOLE DEPTH	BEDDING ∇	FOLIATION ∇	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
							0.5 cm	0.5 cm WIDE ALTERED QTZ. VEIN W DICKEM Py.	VC		FS																				
346																															
					Py <1%																										
350																															
355																															
360																															

DR -2

CORDILLERAN ENGINEERING DIAMOND DRILL RECORD

PROPERTY MEISTER DDH 83-5 PAGE 25 OF 26

LOGGED BY

DATE SEPTEMBER 1983

HOLE DEPTH	∇ BEDDING	∇ FOLIATION	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS			
																												% Pb	% Zn	oz/t Ag	% Ba
									UC		FS																				
361																															
365																															
	60°																														
370																															
	10°																														
375																															

QR· -2

CORDILLERAN ENGINEERING

DIAMOND DRILL RECORD

PROPERTY Meister

DDH 83-5

PAGE 26 OF 26

LOGGED BY

DATE September 1983

HOLE DEPTH	BEDDING ∠	FOLIATION ∠	DIPLINE ANGLE	SYMMETRY	MINERAL/ALTN	HABIT	GANGUE	COMMENTS	UNIT	CONTACT	MAJOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	MINOR ROCK TYPE	GRAIN SIZE	TEXTURE	THICKNESS	COMPOSITION	MODIFIER	COLOUR	% MINOR	% RECOVERY	ASSAY No. AND INTERCEPT	ASSAYS % Pb	ASSAYS % Zn	ASSAYS oz/t Ag	ASSAYS % Ba
									UC		FS																				
376																															
								QTZ VEIN																							
380	0°																														
381								END HOLE																							

LEGEND

LOWER CAMBRIAN	LЄ4	ATAN GROUP	☐	LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	LЄ3	UPPER CLASTICS (UC)	☐	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			☐	SILTSTONES (ST)
			☐	QUARTZOSE SILTSTONES (QS)
			▨	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			☐	GRAPHITIC ± Py, ± Po
			☐	CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			☐	MICA SCHISTS. (MS)
			☐	CARBONATE: MARBLE (MAR), ± RHODOCHROSITE
	LЄ2	LOWER CLASTICS (LC)	☐	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PLЄ1	WINDERMERE	☐	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

FAULT ZONE, SHEAR ZONE
GEOLOGICAL CONTACT, APPROXIMATE, ASSUMED
STRIKE AND DIP, BEDDING
BEDDING, OVERTURNED
FOLIATION, CLEAVAGE, SCHISTOSITY
MINOR FOLD AXIS WITH AMOUNT OF PLUNGE
MINOR FOLD, Z, S, M VERGENCE
PLUNGING FOLD OR MONOCLINE
REGIONAL GLACIAL TREND
⊙ DIAMOND DRILL HOLE
GLACIAL STRIAE
<<<<<<< ESKER, TERMINAL MORAINE
OUTCROP
x x x SUBOUTCROPS
■ PIT
TRENCH
⬅ STRATIGRAPHIC TOP

NOTE:
DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983
DECLINATION (1982) 31° 10' EAST

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

PROPERTY GEOLOGY

MR CLAIM GROUP

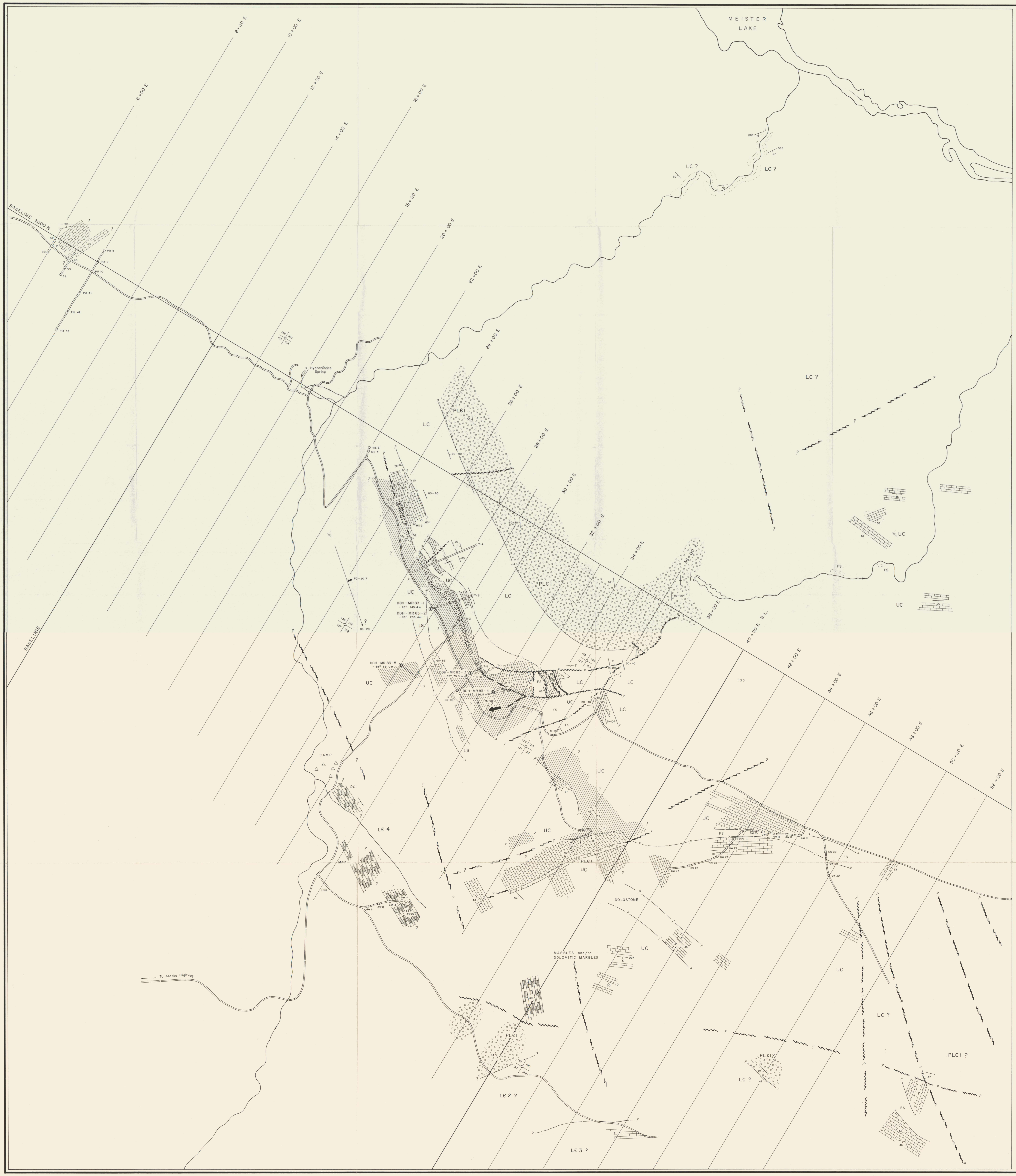
WOLF LAKE MAP AREA, N.T.S. 105B / 1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

PLATE: 1



LEGEND

PLEISTOCENE AND RECENT			▨	OVERBURDEN
LOWER CAMBRIAN	LЄ4		▦	ATAN GROUP LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	LЄ3	UPPER CLASTICS (UC)	▨	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			⁘	SILTSTONES (ST)
			☰	QUARTZOSE SILTSTONES (QS)
			⁙	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			■	GRAPHITIC ± Py, ± Po
			▦	CARBONATE : MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			∩	MICA SCHISTS. (MS)
			▦	CARBONATE : MARBLE (MAR), ± RHODOCHROSITE
	LЄ2	LOWER CLASTICS (LC)	☰	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PLЄ1	WINDERMERE	○	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

〰	FAULT
— — —	GEOLOGICAL CONTACT
······	GEOLOGICAL CONTACT PROJECTED
49 ⟋	STRIKE AND DIP, BEDDING
↗	PLUNGING MONOCLINE, ANTICLINE
➡	STRATIGRAPHIC TOPS
⟋	STRIKE DIP UNCERTAIN
□ ○	PIT
═	TRENCH
→ 20	LINEATION WITH AMOUNT OF PLUNGE
→	GLACIAL STRIAE

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

GEOLOGY OF WEST ZONE

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:5000
100 0 100 200 300 400 500 METRES

CORDILLERAN ENGINEERING
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VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

091518

PLATE 2

LEGEND

■ TRENCH

○ SOIL SAMPLE SITE (50 METRE INTERVALS)

● NO SAMPLE COLLECTED

◊ WATER SAMPLE SITE

□ STREAM SEDIMENT SAMPLE SITE

△ ROCK SAMPLE SITE

▨ OXIDE ZONE (Fe, Mn, Zn, Pb, Ag)

Pb CONCENTRATION IN P.P.M.

□	BACKGROUND	0 – 180
□	POSSIBLY ANOMALOUS	181 – 280
□	ANOMALOUS	281 – 580
□	STRONGLY ANOMALOUS	> 580

VALUES LESS THAN 100 ppm Pb HAVE NOT BEEN PLOTTED. RESULTS INCLUDE SAMPLES COLLECTED IN 1981 & 1982.

DIRECTION OF ICE MOVEMENT (EXTRAPOLATED)

NOTE:

DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983.
DECLINATION (1982) 31° 10' EAST.

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

LEAD GEOCHEMISTRY

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B / 1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
1418 – 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983 091518 PLATE : 3

LEGEND

- ■ TRENCH
- ○ SOIL SAMPLE SITE (50 METRE INTERVALS)
- ● NO SAMPLE COLLECTED
- ◊ WATER SAMPLE SITE
- □ STREAM SEDIMENT SAMPLE SITE
- △ ROCK SAMPLE SITE
- ▨ OXIDE ZONE (Fe, Mn, Zn, Pb, Ag)

Zn CONCENTRATION IN P.P.M.

□	BACKGROUND	0 – 450
□	POSSIBLY ANOMALOUS	451 – 750
□	ANOMALOUS	751 – 1550
□	STRONGLY ANOMALOUS	> 1550

VALUES LESS THAN 200 ppm Zn HAVE NOT BEEN PLOTTED. RESULTS INCLUDE SAMPLES COLLECTED IN 1981 & 1982.

DIRECTION OF ICE MOVEMENT (EXTRAPOLATED)

NOTE:
DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983.
DECLINATION (1982) 31° 10' EAST.

PROFESSIONAL ENGINEER
M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

ZINC GEOCHEMISTRY

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B / 1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

PLATE : 4

091518

LEGEND

■ TRENCH
○ SOIL SAMPLE SITE (50 METRE INTERVALS)
● NO SAMPLE COLLECTED
◊ WATER SAMPLE SITE
□ STREAM SEDIMENT SAMPLE SITE
△ ROCK SAMPLE SITE
▨ OXIDE ZONE (Fe, Mn, Zn, Pb, Ag)

Ag CONCENTRATION IN P.P.M.

□	BACKGROUND	0 – 1.0
□	POSSIBLY ANOMALOUS	1.1 – 2.0
□	ANOMALOUS	2.1 – 4.0
□	STRONGLY ANOMALOUS	> 4.0

VALUES LESS THAN 0.5 ppm Ag HAVE NOT BEEN PLOTTED. RESULTS INCLUDE SAMPLES COLLECTED IN 1981 & 1982.

DIRECTION OF ICE MOVEMENT (EXTRAPOLATED)

NOTE:
DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983.
DECLINATION (1982) 31° 10' EAST.

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

SILVER GEOCHEMISTRY

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B / 1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

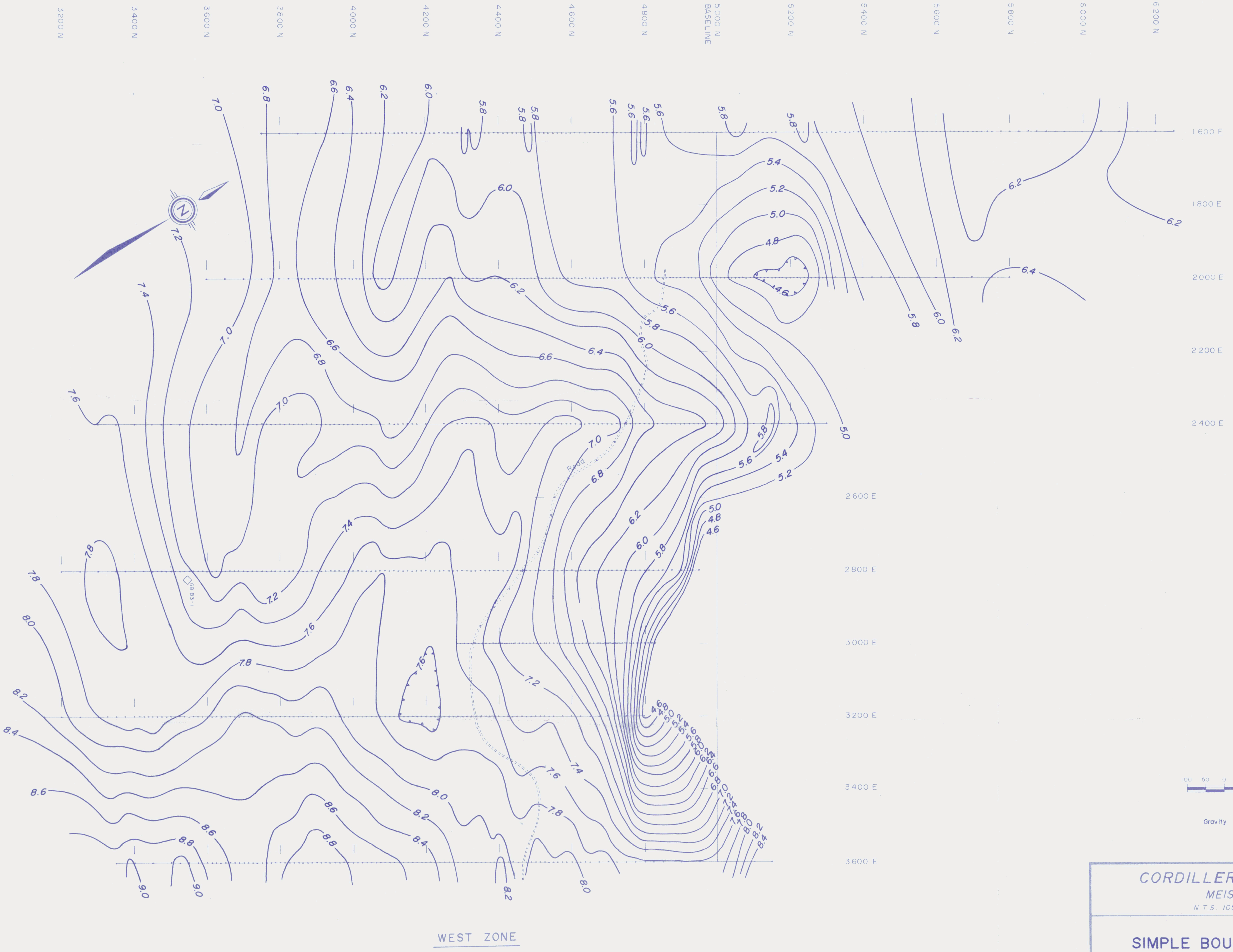
SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
1418 – 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

091518

PLATE : 5



100 50 0 50 100 200 300 METRES

SCALE

Gravity Base Station ☐

M. H. SANGUINETTI

6

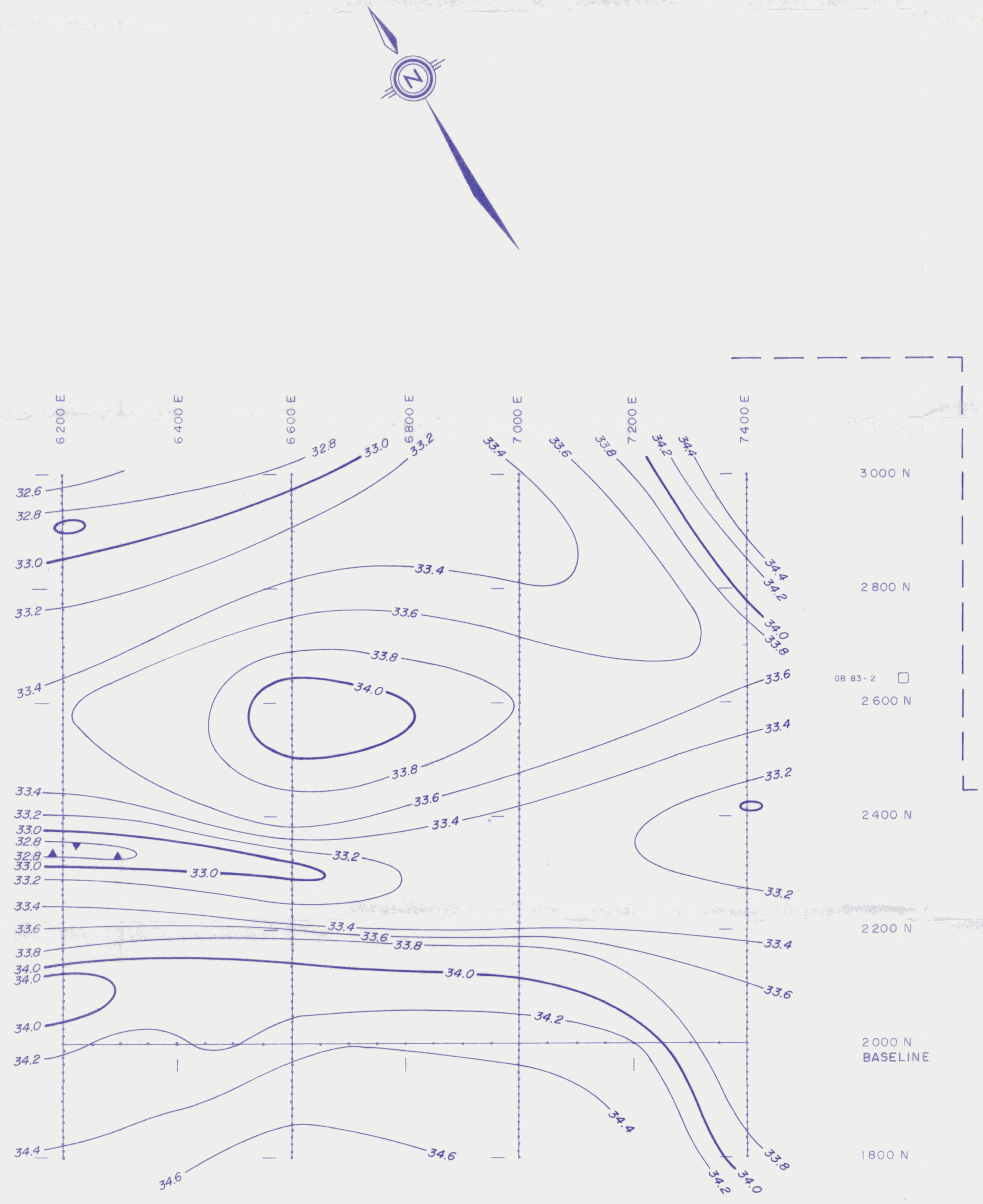
CORDILLERAN ENGINEERING
MEISTER PROJECT
N.T.S. 105B/8 YUKON TERRITORY

SIMPLE BOUGUER GRAVITY MAP

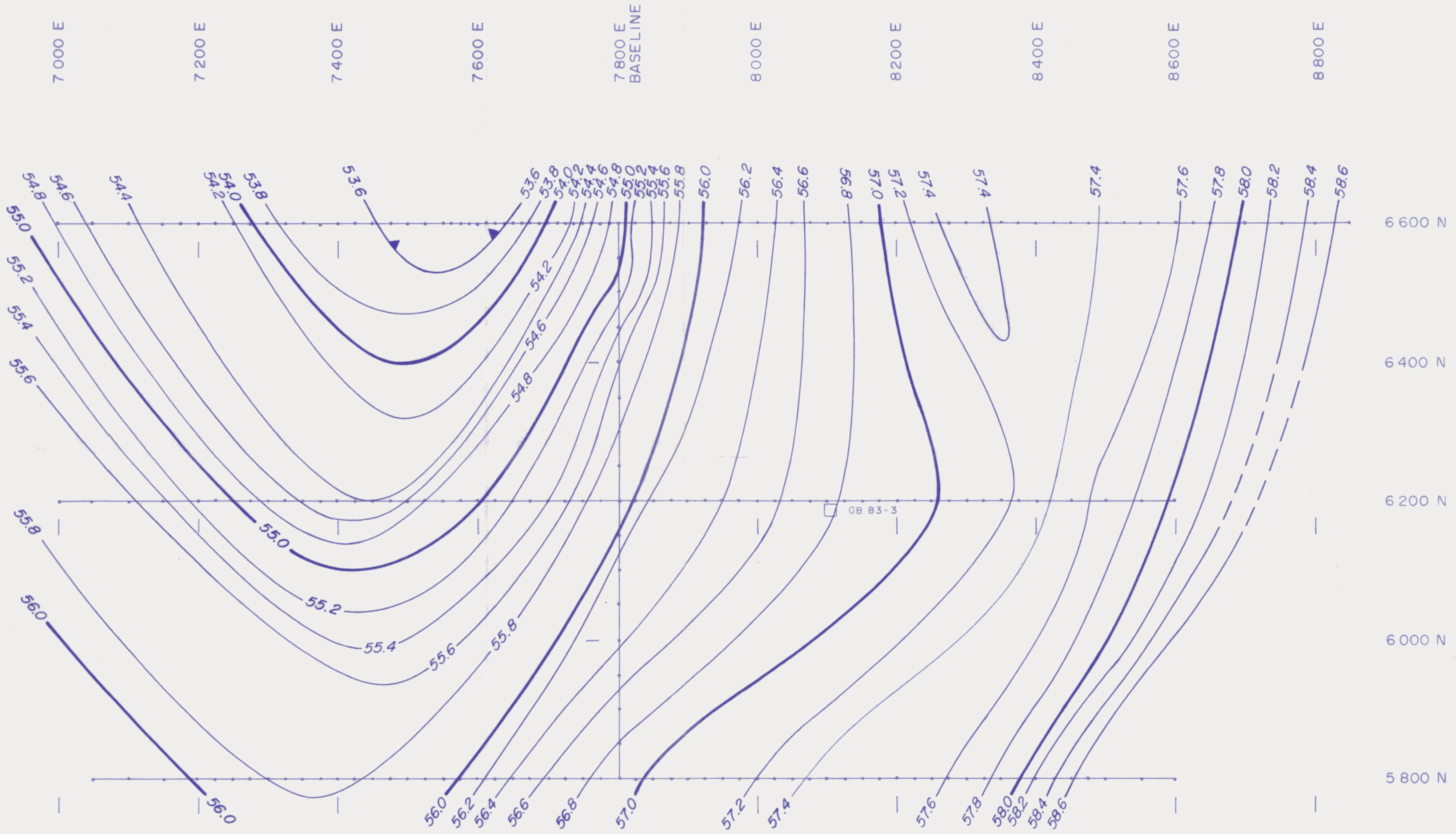
CONTOUR INTERVAL = 0.2 mgal

Ager, Berretta & Ellis Inc. Vancouver, Canada	DWN. BY B.J.C. SCALE 1:5000 DATE OCT 1983	FIG. NO. 4

091518



SOUTH ZONE



EAST ZONE

100 50 0 50 100 200 300 METRES

SCALE

Gravity Base Station ☐

M. H. SANGUINETTI

7

CORDILLERAN ENGINEERING

MEISTER PROJECT

N.T.S. 105B/8 YUKON TERRITORY

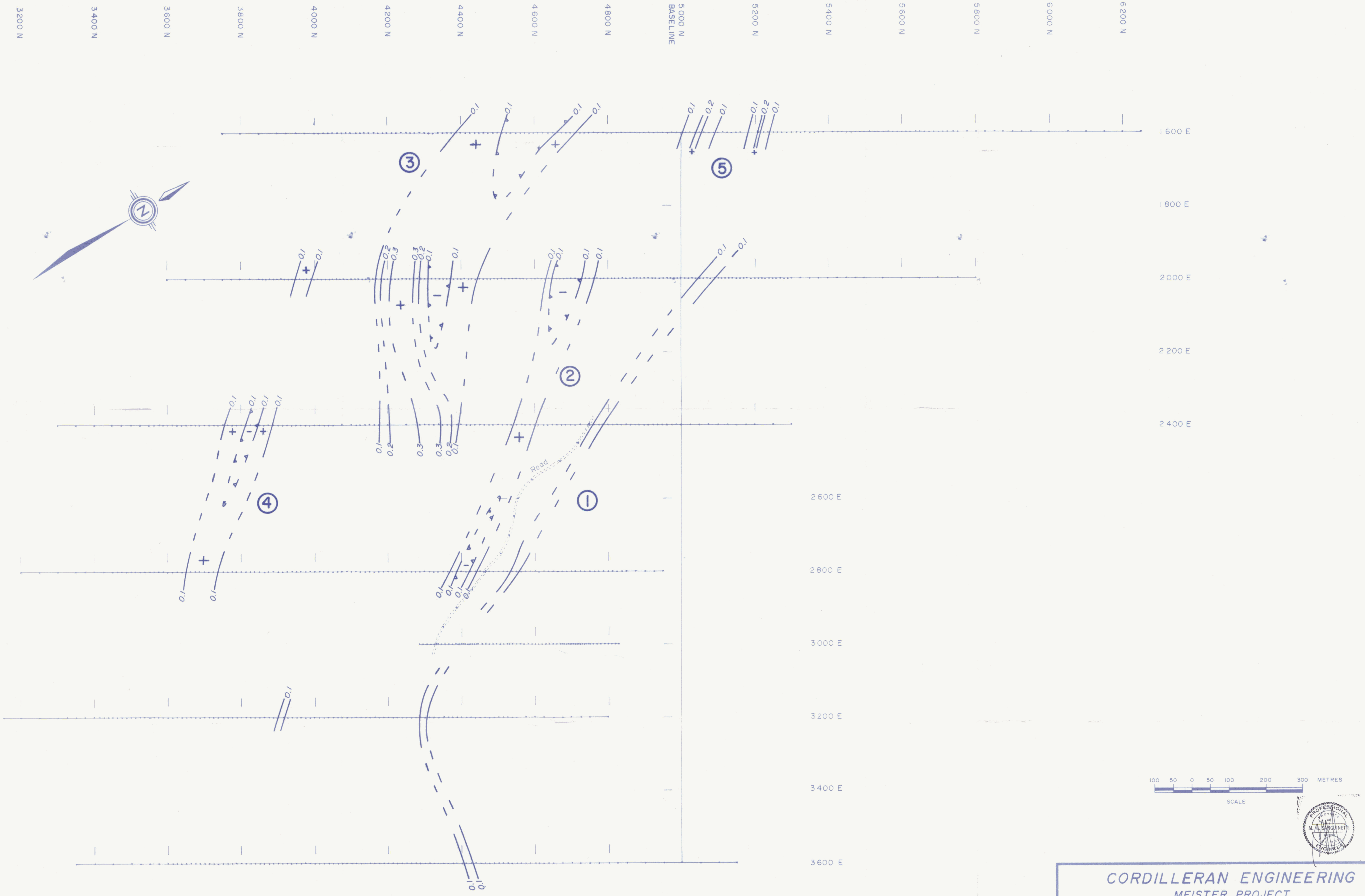
SIMPLE BOUGUER GRAVITY MAP

CONTOUR INTERVAL = 0.2 mgal.

Ager, Berretta & Ellis Inc.
Vancouver, Canada

DWN. BY: K.D.H.	FIG. NO.
SCALE: 1 : 5 000	5
DATE: OCT. 1983	

091518



WEST ZONE

8

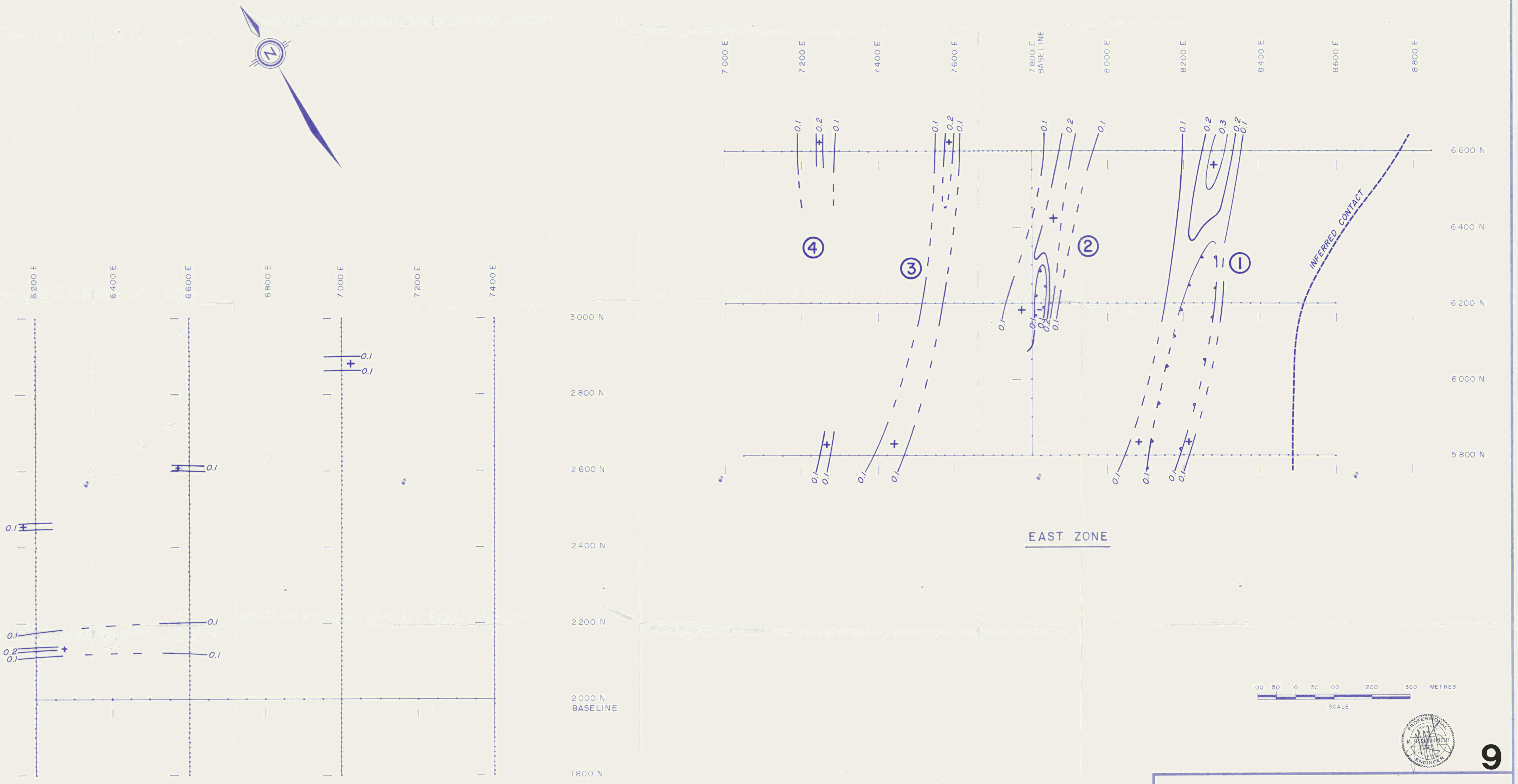
CORDILLERAN ENGINEERING
MEISTER PROJECT
N.T.S. 105B/8 YUKON TERRITORY

PSEUDO RESIDUAL GRAVITY

Ager, Berretta & Ellis Inc.
Vancouver, Canada

DWN. BY:	B.J.C.
SCALE:	1:5000
DATE:	AUGUST 1983
FIG. NO.	6

091518



M. H. SANGUINETTI

9

CORDILLERAN ENGINEERING
MEISTER PROJECT
N.T.S. 105B/8 YUKON TERRITORY

PSEUDO RESIDUAL GRAVITY

Ager, Berretta & Ellis Inc.
Vancouver, Canada

DWN. BY: B.J.C.
SCALE: 1 : 5 000
DATE:
FIG. NO. 7

091518

LEGEND

○	SOIL SAMPLE SITE (50 METRE INTERVALS)
●	NO SAMPLE COLLECTED
◊	WATER SAMPLE SITE
□	STREAM SEDIMENT SAMPLE SITE
△	ROCK SAMPLE SITE
▨	OXIDE ZONE (Fe, Mn, Zn, Pb, Ag)
Pb, Zn, Ag K2 ■ 41, 50, 1.6	TRENCH SITE WITH ANALYTICAL RESULTS OF SOIL SAMPLES IN ppm UNLESS OTHERWISE NOTED.
⟶)	DIRECTION OF ICE MOVEMENT (EXTRAPOLATED)

NOTE:
DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983.
DECLINATION (1982) 31° 10' EAST.

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

RECONNAISSANCE TRENCHING

MR CLAIM GROUP

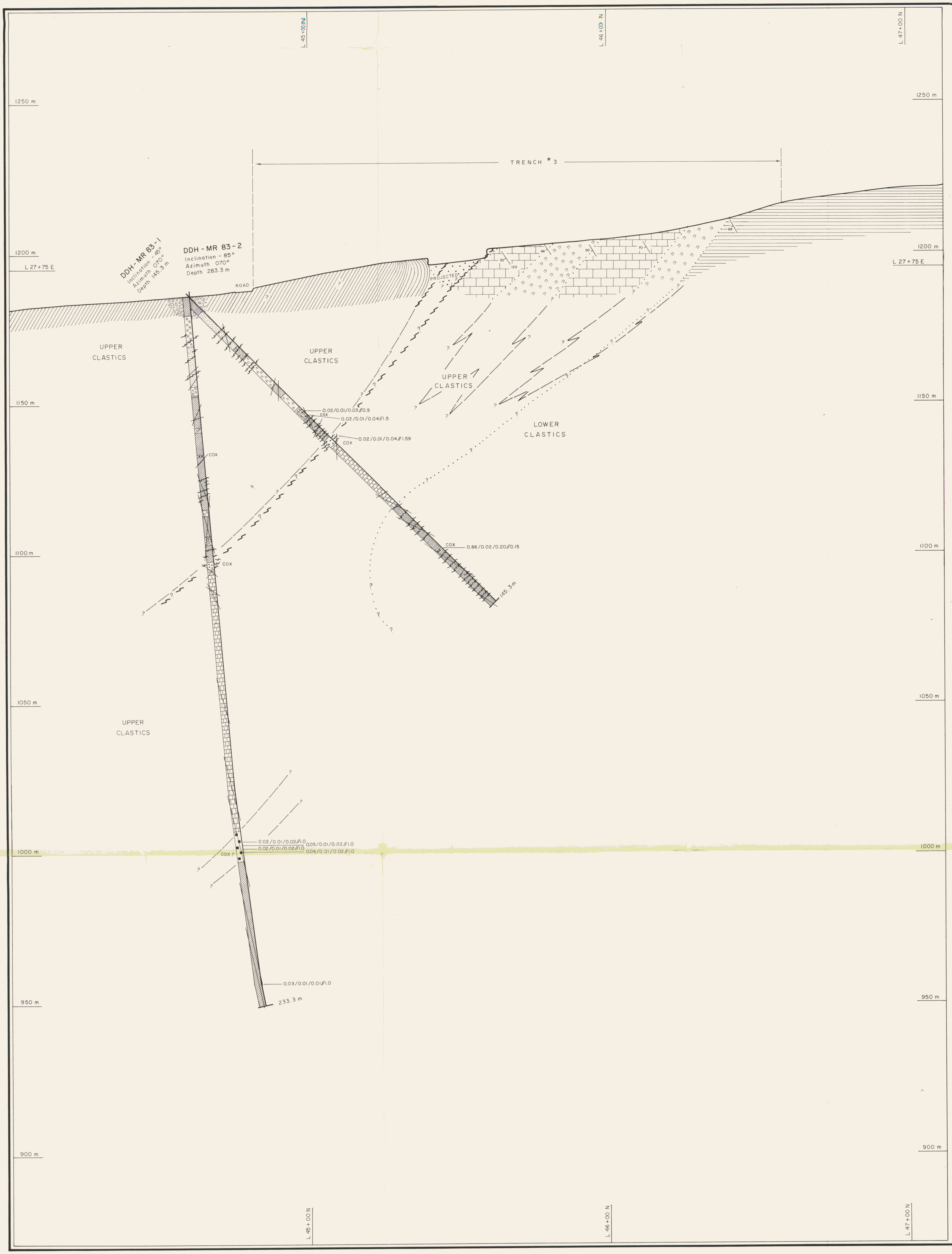
WOLF LAKE MAP AREA, N.T.S. 105B / 1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

PLATE : 10



LEGEND

PLEISTOCENE AND RECENT			▨	OVERBURDEN
LOWER CAMBRIAN	L€ 4		▨	ATAN GROUP LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	L€ 3	UPPER CLASTICS (UC)	▨	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			▨	SILTSTONES (ST)
			▨	QUARTZOSE SILTSTONES (QS)
			▨	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			▨	GRAPHITIC ± Py, ± Po
			▨	CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			▨	MICA SCHISTS. (MS)
			▨	CARBONATE: MARBLE (MAR), ± RHODOCHROSITE
	L€ 2	LOWER CLASTICS (LC)	▨	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PL€ 1	WINDERMERE	▨	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

〰	FAULT
— — —	GEOLOGICAL CONTACT
········	GEOLOGICAL CONTACT PROJECTED
49 ⟋	STRIKE AND DIP
⟋	BEDDING
➡	STRATIGRAPHIC TOPS

NOTE: CORE SIZE NQ

MINERALIZATION

Sp	SPHALERITE
Py	PYRITE
Gn	GALENA
Po	PYRRHOTITE

Ag oz/ton	Pb%	Zn%	// length(m)
0.02	0.01	0.04	1.0

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

DIAMOND DRILL SECTION 27+75E

DDH-MR 83-1&2 SECTION LOOKING 300°

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

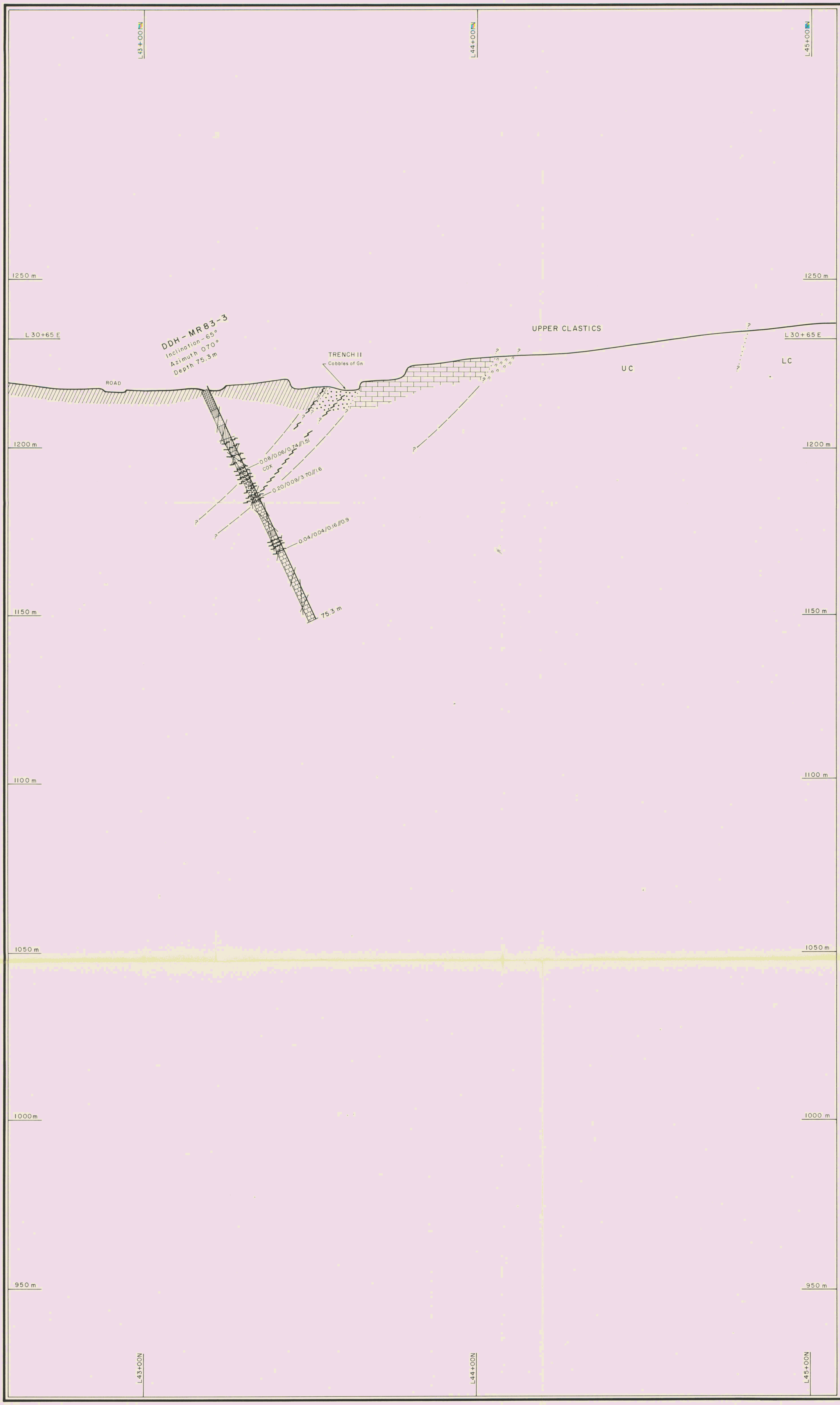
SCALE = 1:500
10 0 10 20 30 40 50 METRES
VERTICAL AND HORIZONTAL SCALE

CORDILLERAN ENGINEERING
1418 – 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

091518

PLATE 11



LEGEND

PLEISTOCENE AND RECENT			◌	OVERBURDEN
LOWER CAMBRIAN	L€4		▦	ATAN GROUP LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	L€3	UPPER CLASTICS (UC)	▨	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			⁚	SILTSTONES (ST)
			☰	QUARTZOSE SILTSTONES (QS)
			⁖	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			■	GRAPHITIC ± Py, ± Po
			▦	CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			∩	MICA SCHISTS. (MS)
			▦	CARBONATE: MARBLE (MAR), ± RHODOCHROSITE
	L€2	LOWER CLASTICS (LC)	▤	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PL€1	WINDERMERE	○	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

〰	FAULT
— —	GEOLOGICAL CONTACT
·····	GEOLOGICAL CONTACT PROJECTED
49 /	STRIKE AND DIP
/	BEDDING
➡	STRATIGRAPHIC TOPS

NOTE: CORE SIZE NQ

MINERALIZATION

Sp	SPHALERITE
Py	PYRITE
Gn	GALENA
Po	PYRRHOTITE

$$\frac{\text{Ag oz/ton}}{0.02}\quad\frac{\text{Pb\%}}{0.01}\quad\frac{\text{Zn \%}}{0.04}\Big/\!\Big/\frac{\text{length(m)}}{1.0}$$

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

DIAMOND DRILL SECTION 30+65E

DDH-MR 83-3 SECTION LOOKING 300°

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

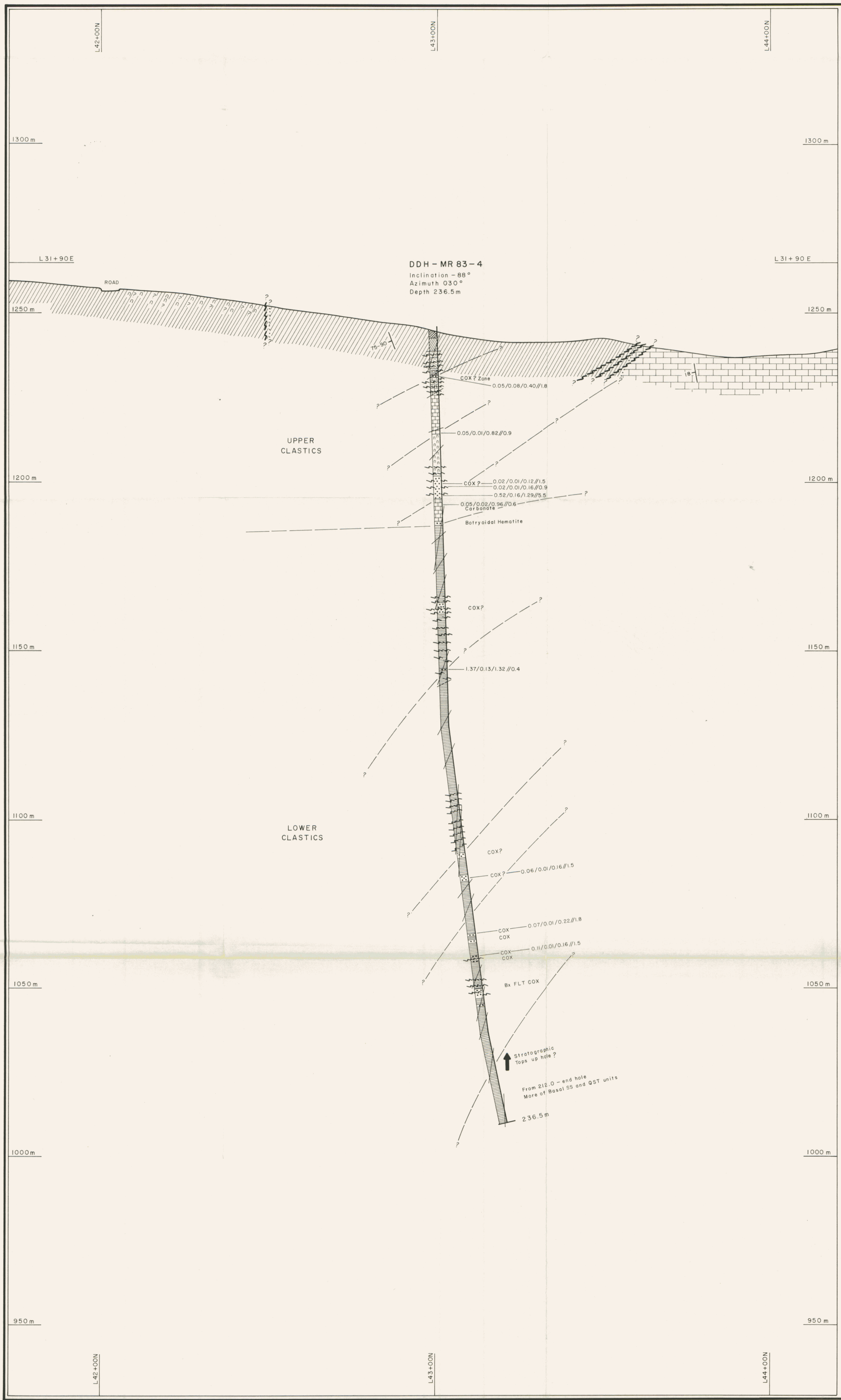
SCALE = 1:500
10 0 10 20 30 40 50 METRES
VERTICAL AND HORIZONTAL SCALE

CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

PLATE 12

091518



LEGEND

PLEISTOCENE AND RECENT			░	OVERBURDEN
LOWER CAMBRIAN	L€ 4		▦	ATAN GROUP LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	L€ 3	UPPER CLASTICS (UC)	▨	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			⁘	SILTSTONES (ST)
			☰	QUARTZOSE SILTSTONES (QS)
			∴	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			■	GRAPHITIC ± Py, ± Po
			▦	CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			∩	MICA SCHISTS. (MS)
			▦	CARBONATE: MARBLE (MAR), ± RHODOCHROSITE
	L€ 2	LOWER CLASTICS (LC)	☰	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PL€ 1	WINDERMERE	○	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

〰	FAULT
— —	GEOLOGICAL CONTACT
⋯	GEOLOGICAL CONTACT PROJECTED
49 /	STRIKE AND DIP
/	BEDDING
➡	STRATIGRAPHIC TOPS

NOTE: CORE SIZE NQ

MINERALIZATION

Sp	SPHALERITE
Py	PYRITE
Gn	GALENA
Po	PYRRHOTITE

$$\frac{\text{Ag oz/ton}}{0.02}\ \frac{\text{Pb\%}}{0.01}\ \frac{\text{Zn\%}}{0.04}\,//\,\frac{\text{length(m)}}{1.0}$$

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

DIAMOND DRILL SECTION 31+90E

DDH - MR 83-4 SECTION LOOKING 300°

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

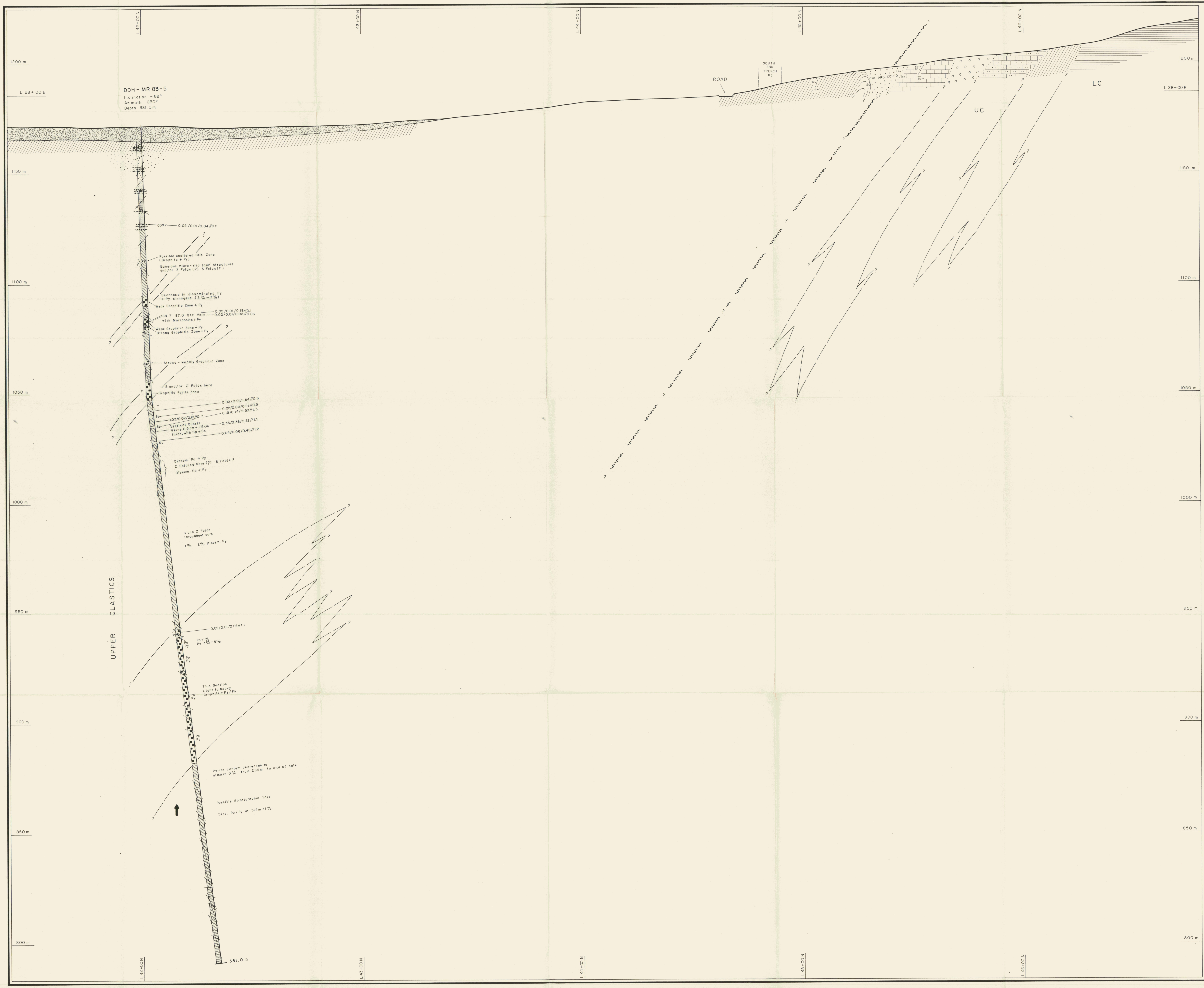
SCALE = 1:500
10 0 10 20 30 40 50 METRES
VERTICAL AND HORIZONTAL SCALE

CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

PLATE 13

091518



LEGEND

PLEISTOCENE AND RECENT			▨	OVERBURDEN
LOWER CAMBRIAN	L€4		▨	ATAN GROUP LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE
LOWER CAMBRIAN	L€3	UPPER CLASTICS (UC)	▨	CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
			▨	SILTSTONES (ST)
			▨	QUARTZOSE SILTSTONES (QS)
			▨	OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
			▨	GRAPHITIC ± Py, ± Po
			▨	CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
			▨	MICA SCHISTS. (MS)
			▨	CARBONATE: MARBLE (MAR), ± RHODOCHROSITE
	L€2	LOWER CLASTICS (LC)	▨	SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)
UPPER PRECAMBRIAN TO LOWER CAMBRIAN	PL€1	WINDERMERE	▨	QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

∿∿∿	FAULT
— — —	GEOLOGICAL CONTACT
······	GEOLOGICAL CONTACT PROJECTED
49 ⟋	STRIKE AND DIP
⟋	BEDDING
➡	STRATIGRAPHIC TOPS

NOTE: CORE SIZE NQ

MINERALIZATION

Sp	SPHALERITE
Py	PYRITE
Gn	GALENA
Po	PYRRHOTITE

Ag oz/ton	Pb%	Zn% //	length(m)
0.02	0.01	0.04 //	1.0

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

DIAMOND DRILL SECTION 28+00E

DDH-MR 83-5 SECTION LOOKING 310°

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:500
10 0 10 20 30 40 50 METRES
VERTICAL AND HORIZONTAL SCALE

CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
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PLATE 14

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LEGEND

LOWER CAMBRIAN

LЄ4 — ATAN GROUP
- LIMESTONE, DOLOSTONE, MARBLE, FREQUENT PHYLLITE LAMINAE

LOWER CAMBRIAN

LЄ3 — UPPER CLASTICS (UC)
- CALCAREOUS FERRUGINOUS SCHISTS OR SILTSTONES. (FS)
- SILTSTONES (ST)
- QUARTZOSE SILTSTONES (QS)
- OXIDE ZONE (COX) HEMATITE, LIMONITE, MANGANESE, GOETHITE ?, CHALCEDONY ?, GALENA, SPHALERITE
- GRAPHITIC ± Py, ± Po
- CARBONATE: MARBLE (MAR), LIMESTONE (LS), AND/OR DOLOSTONE (DOL).
- MICA SCHISTS. (MS)
- CARBONATE: MARBLE (MAR), ± RHODOCHROSITE

LЄ2 — LOWER CLASTICS (LC)
- SANDSTONES (SS), INTERBEDDED MICA SCHISTS (MS), BASAL SANDSTONES AND QUARTZITES (QST)

UPPER PRECAMBRIAN TO LOWER CAMBRIAN

PLЄ1 — WINDERMERE
- QUARTZITE "CLEAN WHITE QUARTZITE" WITH THIN MINOR INTERBEDS OF FERRUGINOUS SCHISTS AND QUARTZ MICA SCHISTS

SYMBOLS

FAULT ZONE, SHEAR ZONE
GEOLOGICAL CONTACT, APPROXIMATE, ASSUMED
STRIKE AND DIP, BEDDING
BEDDING, OVERTURNED
FOLIATION, CLEAVAGE, SCHISTOSITY
MINOR FOLD AXIS WITH AMOUNT OF PLUNGE
MINOR FOLD, Z, S, M VERGENCE
PLUNGING FOLD OR MONOCLINE
REGIONAL GLACIAL TREND (EXTRAPOLATED)
⊙ DIAMOND DRILL HOLE
GLACIAL STRIAE
<<<<<<< ESKER, TERMINAL MORAINE
ACCESS ROAD
BULLDOZER TRAIL
■ PIT, ANOMALOUS SOIL VALUES
TRENCH
CREEK

GEOCHEMISTRY

Pb 280 ppm CONTOUR
Zn 750 ppm CONTOUR
Ag 2.0 ppm CONTOUR

GEOPHYSICS

1000 RESTIVITY CONTOUR AT 1000 OHM-M
X EM POSSIBLE CONDUCTOR
○ EM CONDUCTOR: 1 WEAK TO 6 VERY STRONG
▨ PSEUDO RESIDUAL GRAVITY, 400 metre Reconnaissance Grid (0.1 to 0.3 milligal)

NOTE:
DRAINAGES FROM McELHANNEY AIRPHOTO MOSAIC, 1983.
DECLINATION (1982) 31° 10' EAST.

M. H. SANGUINETTI

GETTY CANADIAN METALS, LIMITED
REGIONAL RESOURCES LTD.

COMPILATION

MR CLAIM GROUP

WOLF LAKE MAP AREA, N.T.S. 105B/1,8
WATSON LAKE MINING DISTRICT, YUKON TERRITORY

SCALE = 1:10,000
200 0 200 400 600 METRES

BY
CORDILLERAN ENGINEERING
1418 - 355 BURRARD STREET
VANCOUVER, B.C. V6C 2G8

OCTOBER 1983

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PLATE: 15