

GEOLOGICAL, GEOCHEMICAL
and GEOPHYSICAL REPORT

METS 1 and 2 MINERAL CLAIMS

Lat 57°27' North

Long 127°22' West

N.T.S. 94-E-6W

LIARD MINING DIVISION

for

GOLDEN RULE RESOURCES LTD.

Calgary, Alberta

by

Michael Fox, P.Geol.

TAIGA CONSULTANTS LTD.

Calgary, Alberta

JANUARY 1982

MINERAL RESOURCES BRANCH ASSESSMENT REPORT 10,348 NO.

TABLE OF CONTENTS

Certificate		
SUMMARY		1
INTRODUCTION		2
Location and Access		
Property and Ownership		
Physiography and Glaciation		
1981 Exploration		
REGIONAL GEOLOGY		6
PROPERTY GEOLOGY		7
General Statement		
'C' Zone		
'B' Zone		
'A' Zone		
GEOCHEMISTRY		11
Sampling and Analytical Procedures		
Statistical Analysis		
Results		
GEOPHYSICS		21
CONCLUSIONS AND RECOMMENDATIONS		22
BREAKDOWN OF COSTS		24
APPENDIX I	Analytical Techniques	
APPENDIX II	Geochemical Analyses	
APPENDIX III	Geophysical Report	
FIGURES		
1	Regional Location Map	3
2	Claims Location Map	4
3	Cumulative Probability Graph, Au-in-Soils.	12
4	Cumulative Probability Graph, Ag-in-Soils.	13
5	Cumulative Probability Graph, Au-in-Rocks.	14
6	Cumulative Probability Graph, Ag-in-Rocks.	15
MAPS		
1	Property Geology	1:10,000
1a	'C' Zone Geology	1: 2,500
1b	'B' Zone Geology	1: 2,500
2	Au and Ag in Silts and Rocks	1:10,000
3	Au-in-Soils	1: 5,000
4	Ag-in-Soils	1: 5,000
5	Au-in-Rocks	1: 5,000
6	Ag-in-Rocks	1: 5,000
(7)	Total Field Magnetic Map (Plate I, Appendix III)	

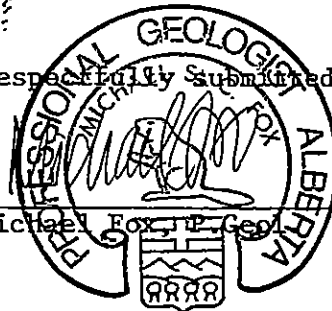
CERTIFICATE

I, the undersigned, of the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Consulting Geologist with an office at #100, 1300 - 8th St. S.W., Calgary, Alberta;
2. I am a graduate of the University of British Columbia with a B.Sc. in Geology (1974);
3. I have worked in the field of mineral exploration since 1965;
4. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

Respectfully Submitted

Michael Fox, P. Geol.



November 1981

SUMMARY

During August 1981, approximately 27.5 line km of grid lines were established at the Mets 1 and 2 claims. A total of 829 soil samples were collected at 25m intervals along these lines and semi-reconnaissance geological mapping and sampling were carried out over the property as a whole, utilizing a 1:10,000 scale topographic base. A total of 263 rock samples were systematically collected at grid stations in selected areas of the grid. A total of 98 rock samples were collected during the course of property mapping. Existing silt sample coverage was extended by the collection of an additional 75 silt samples.

The results of this work have identified two epithermal, stockwork-type, Ag-Au zones referred to in this report as the 'B' and 'C' zones. High Ag-in-soils values occur over a third area referred to herein as the 'A' zone. Surface exploration of these zones to date is incomplete, with all of the zones of interest still open along strike. Recommendations for further work include additional detailed surface mapping and sampling, to be followed by trenching.

The above work was preceded in April 1981 by approximately 42 line km of airborne VLF-E.M. and magnetic surveying. Structural interpretations of geophysical data are included in a separate report, appended hereto.

INTRODUCTION

Location and Access

The Mets 1 and 2 mineral claims form a contiguous block of claims located in N.T.S. map-area 94-E-6W, approximately 510 km northwesterly from Prince George, British Columbia, at the headwaters of Metsantan Creek (Figure 1). The approximate geographic coordinates of the claims are 57°27' North latitude and 127°22' West longitude (Figure 2). The claims are normally accessible only by helicopter.

Property and Ownership

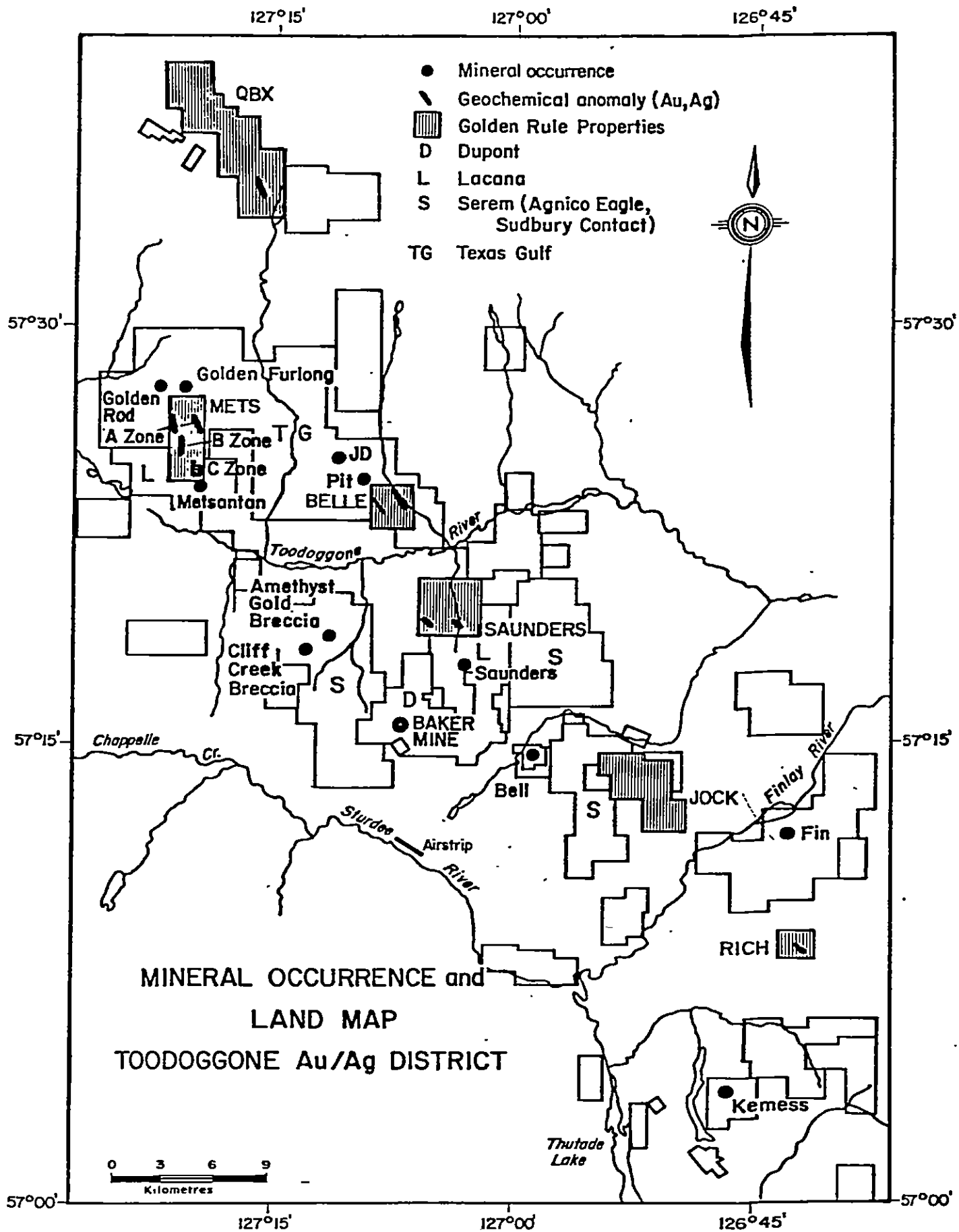
The Mets 1 and 2 mineral claims are located in the Liard Mining Division and are entirely owned by Golden Rule Resources Ltd. of Calgary, Alberta. The claims are described more specifically as follows:

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record Number</u>	<u>Date of Record</u>
Mets 1	20	1253	April 3, 1980
Mets 2	20	1254	April 3, 1980

Physiography and Glaciation

The claims lie within the Cassiar Mountains physiographic subdivision of the Interior Plateau. The region is entirely glaciated and is characterized by wide U-shaped, drift-filled major valleys and deeply cut V-shaped upland valleys. Mountain peaks in the area average 1980m (6500 ft.) ASL in elevation and rise fairly abruptly from the major valleys. The topography of areas underlain by Toodoggone volcanic rocks is usually considerably more subdued than areas underlain by Takla Group volcanic rocks.

The southern part of the Mets Group is located over a flat-topped, horseshoe-shaped 1980+m ridge that slopes steeply down into a deeply-cut, south-facing basin. The northern and eastern facing slopes form steep cirques and cliffs as a consequence of ice-plucking and seasonal alpine glaciation.



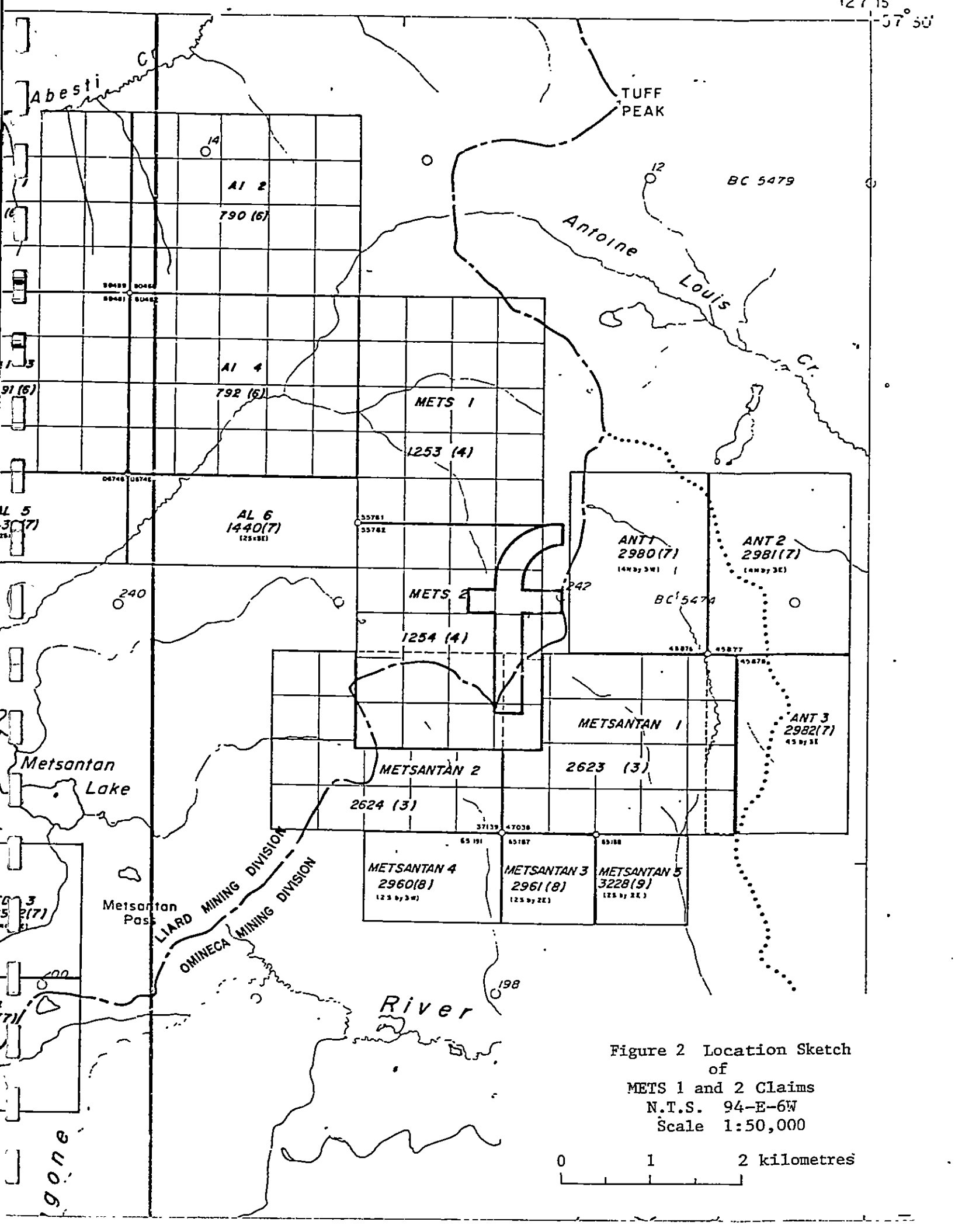
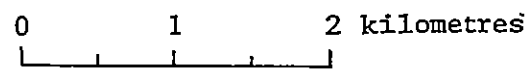


Figure 2 Location Sketch of
 METS 1 and 2 Claims
 N.T.S. 94-E-6W
 Scale 1:50,000



The northern part of the claim group is located over an area of relatively gently sloping low hills and ridges that are dissected by a number of tributary streams at the headwaters of the northern fork of Metsantan Creek. Elevations here range from 1400+m to 1700+m ASL. In some areas, 30m to 60m deep narrow canyons occur along the streams.

1981 Exploration

Work carried out in 1981 consisted of airborne VLF-E.M. and magnetic surveying, followed by helicopter-supported geological mapping and geochemical sampling. The airborne geophysical surveying was carried out in April 1981, and the results of the survey are submitted in a separate report in Appendix III.

In August 1981, approximately 27.5 line km of soil sampling were carried out in two separate grid areas. Grid-controlled rock geochemical sampling was also carried out over a 7.1 line km portion of the south grid area. A total of 829 soil samples and 263 rock geochemical samples were collected. In addition, 98 rock samples were routinely collected from various areas of the claims during the course of geological mapping. A total of 75 silt samples were also collected and submitted for analysis.

REGIONAL GEOLOGY

The claims are underlain by intermediate to acidic volcanic rocks of the Lower Jurassic Toadogone Formation. The Toadogone volcanics form a belt 5 - 20 km wide and 100+ km long, which is currently the focus of intense precious metals exploration. The belt hosts the Baker deposit, currently being mined by DuPont Canada Ltd., and another potentially economic deposit known as the Amethyst Gold Breccia Zone, currently being explored by Serem Ltd.

Four principal subdivisions of the Toadogone Formation are now recognized. The following descriptions of these subdivisions are excerpted from B.C. Ministry of Mines Paper 1981-1, p.125, by T. G. Schroeter:

1. Lower Volcanic Division

This is dominantly a pyroclastic assemblage including purple agglomerate and grey to purple dacitic tuffs.

2. Middle Volcanic Division

This is an acidic assemblage including rhyolites, dacites, 'orange' crystal to lithic tuffs, and quartz feldspar porphyries. It includes welded tuff. The 'orange' color of the tuffs resulted from oxidation of the fine-grained matrix while the rock was still hot. A coeval period of explosive volcanism included the formation of 'laharic' units and intrusion of syeno-monzonite bodies and dykes. This event was accompanied by explosive brecciation along zones of weakness, predominantly large-scale faults and attendant splays, followed by silicification and deposition of precious and base metals to varying degrees in the breccias. Rounded fragments of Omineca intrusive rocks are rare components in Toadogone tuffs.

3. Upper Volcanic - Intrusive Division

This division consists of grey to green to maroon crystal tuffs and quartz-eye feldspar porphyries.

4. Upper Volcanic - Sedimentary Division

This division consists of lacustrine sedimentary rocks (sometimes varved), stream bed deposits, and possible local fanglomerate deposits and interbedded tuff beds.

PROPERTY GEOLOGY

General Statement

Geological mapping of the Mets 1 and 2 claims was carried out utilizing a 1:10,000 scale topographic base. The results of this work are included in a map in the back pocket. Mapping was restricted to major bedrock exposures.

The southern half of the Mets 2 claim is underlain by green and orange crystal tuffs corresponding to Division 2 or the Middle Volcanic Division (see preceding section) of the Toodoggone Formation. In the southeastern corner of the Mets 2 claim, the 'orange' crystal tuffs are transected by a series of northwesterly trending brecciated, silicified, fracture zones described in greater detail below. In the west-central area of the claim, a 25-50 m wide, northerly striking, quartz porphyry dyke cuts the crystal tuffs. A 5-10 m wide zone of massive quartz and quartz breccia can be traced for a short distance in felsenmeer along its east contact.

A variety of rock types of rhyolitic composition underlie low-lying areas in the central part of the Mets 1 claim. Rock types include heavily pyritized, leucocratic feldspar and quartz-feldspar porphyries, glassy tuffs, ignimbrites, and thinly laminated ash beds, the latter two types being juxtaposed in a chaotic collapse(?) breccia. These rocks appear to belong to Divisions 3 and 4 of the Toodoggone Formation. Their presence here might be explained by graben-style downfaulting along northwesterly trending fault zones.

'C' Zone

The southeastern corner of the Mets 2 claim hosts a number of epithermal stockwork zones of quartz stringers and quartz breccias developed in a fairly extensive series of zones of pervasive silicification. The latter zones are a characteristic orange color due to oxidation of the crystal tuff host unit, presumably by ascending, boiling hydrothermal fluids. The alteration zones are typified by partial to complete replacement by very fine-grained silica, clay minerals, epidote, carbonate, and pyrite. Minor amounts of amethystine quartz were found in felsenmeer and talus in and adjacent to

the zones. Comb structures in cavities are common. Feldspar porphyry breccia fragments are frequently bleached and superficially resemble rhyolite.

The actual dimensions of the above described zones are somewhat indeterminate since, despite the high elevations, bedrock exposures are scarce. Much of the detailed mapping and structural interpretation is based upon observed distribution of the various rock types and alteration zones in the blanket of felsenmeer that occurs over much of the high plateau-like surface of this part of the property.

The quartz stringer stockworks occur mainly towards the south end of the zone in the vicinity of Lines 1+00S, 0+00, 1+00N, and 2+00N. Exposures and felsenmeer to the north of this area indicate a lesser intensity of fracturing and brecciation. Quartz stringers here occur most commonly as 1 - 10 metre wide parallel zones of 2 or 3 narrow stringers and alteration envelopes rather than the stockworks noted in the southern part of the zone. As far as could be determined from mapping in the felsenmeer, quartz breccias and related quartz stringer stockworks form pod-like or lens-like zones ranging from 4 or 5 metres in width to 20 metres in width and 10 to 50 metres in length. These northeasterly to north-northeasterly trending zones are crudely aligned in a northwesterly trending array, suggestive of an en echelon series of tensional slips and dilations. An alternate interpretation of data acquired to date is that the stringer and breccia zones simply represent a parallel series of fractures and shears distributed over a broad northeasterly to north-northeasterly trending zone of faulting.

Whatever the structural controls of the above zones prove to be, it is clear that this tensional regime formed the conduits for a significant hot spring centre. Rock geochemical sampling carried out to date indicates the presence of potentially economic grades of precious metals genetically related to the breccia and stringer zones. The host rocks, structural environment, alteration, and relationship of mineralization to these zones are strikingly similar to the Amethyst Gold Breccia Zone being developed by Serem. Considerable latitude presently is afforded for tracing extensions of these zones to the north of the 1981 grid area.

'B' Zone

The 'B' Zone is located in the west-central portion of the Mets 2 claim area. A small detailed grid was positioned here to test geochemical response along the projected strike extension of a spectacular chalcedonic quartz breccia zone mapped in felsenmeer at L 14N-8+00E. The distribution of chalcedonic quartz breccia fragments in the felsenmeer suggests the presence of a 10m-25m wide, northerly trending breccia zone. This zone occurs adjacent to the eastern contact of a 50m wide pink, northerly striking quartz-feldspar porphyry dyke which cuts Toodoggone dacitic porphyry flows (Division 2) (the dyke was probably a major feeder zone for rhyolitic extrusive rocks higher in the section). The breccia zone can be traced for approximately 50m in the felsenmeer but is quickly lost to the north under talus-covered slopes. Very high Au-in-rock geochemical analyses (up to 36,600 ppb) occur in samples collected systematically at grid stations along the projected extension of this zone. The mineralized trend evidently extends off the grid area to the north, and may be comprised of a series of pipes or en echelon zones similar to the 'C' Zone. Work to date is little more than a reconnaissance check of the zone and considerable follow-up work will be required to evaluate the mineralized trend.

Although there is a limited number of data points available for the 'B' Zone, there is a discernible increase in the Au:Ag ratio in geochemical analyses in comparison to the 'C' Zone. The 'B' Zone occurs 100m to 200m lower in elevation than the 'C' Zone, suggesting the possibility of vertical zoning in the hydrothermal systems. By corollary, it would be logical to expect an increase in the Au:Ag ratio at depth in the 'C' Zone.

'A' Zone

The 'A' Zone embraces the entire area of the Mets 1 claim that is underlain by rhyolitic flows and tuffs, characterized by high background Ag-in-soils geochemistry. There are actually two major zones of interest presently identified.

The first area is located in the west-central area of the Mets 1 claim in a zone underlain by heavily pyritized porphyritic rhyolite flows,

leucocratic ignimbrites, and large blocks of bleached and kaolinized, thinly laminated ash beds and coarse pyroclastic debris chaotically juxtaposed in a "megabreccia" or possible collapse breccia. Very high Au-in-silt values (up to 620 ppb) were located in this area. Reconnaissance mapping and rock chip sampling in this area have so far identified anomalous concentrations of Au and Ag in bleached, kaolinized areas of the "megabreccia" (sample MS-32: 300 ppb Au, 8600 ppb Ag). Highly anomalous Ag-in-soils values occur in the same vicinity, over an area 400m long by 200m wide.

The second area is located in the southeast corner of the Mets 2 claim in a similar zone of widespread high background Ag-in-soils values. This area is underlain mainly by glassy, highly fractured rhyolitic tuffs. Reconnaissance mapping and rock chip sampling in the vicinity of one of the most intense Ag-in-soils anomalies have identified a brecciated fracture zone in the tuffs carrying very high Ag-in-rock geochemical values (sample MS-38: 108 ppb Au, 10,700 ppb Ag). Quartz and alunite occur as open space fillings and stringers along the fracture system (see location of sample numbers MS-35, 36, 38).

Further exploration of the 'A' Zone should investigate its potential as a possible subsidence structure or downfaulted zone in which younger, rhyolitic rocks have been preserved at the stratigraphic level of Division 2 crystal tuffs and feldspar porphyry flows. Such structures commonly exhibit an arcuate or crescent shape as a consequence of radial and concentric faulting patterns in a classic cauldron subsidence complex. Examples of these are well documented in early Tertiary rhyolitic centres, as at Bennet Lake (see GSC Bulletin 227). The controlling structures of subsidence may also have acted as controls for hydrothermal and fumarolic activity. The relatively flat dips in this area and the apparent relationship of soils anomalies to a particular stratigraphic horizon also require that the possibility of stratigraphic controls of mineralization be investigated.

GEOCHEMISTRY

Sampling and Analytical Procedures

A total of 829 soil samples were collected from 27.5 line km of grid lines in two grid areas. Line spacings were 100m and 200m. Samples were collected mainly from the B horizon at depths of 0.25m to 0.30m, at 25m intervals along the lines. In a number of areas at higher elevations, sample material consisted of a mixture of organic material, talus fines, and poorly developed oxidized soil horizons.

Soil samples were collected utilizing mattocks, placed in heavy kraft paper bellows-type soil sample bags, and partially dried before shipment. Au and Ag analyses were performed by Acme Analytical Labs Ltd. of Vancouver, B.C., using standard (wet) atomic absorption procedures.

In selected areas of the Mets 2 grid, rock chip samples were also collected at 25m intervals along grid lines. The sampling technique used required the collection of 12 or 15 small chips, approximately 1-2cm in diameter, within a 10m radius of each grid station. Field assistants were instructed to collect rock chips that were representative of all the rock types present at a particular sample point. A total of 263 samples were collected and submitted to TerraMin Research Lab Ltd. of Calgary, Alberta, for analyses. The entire sample volume was pulverized, sieved, and analyzed for Au and Ag by combined fire assay and atomic absorption. Further details of analytical techniques are included in Appendix I.

Statistical Analysis

Separate cumulative probability graphs have been prepared for Au and Ag in rocks and soils (see Figures 3, 4, 5, and 6).

Nearly 80% of the sample population of Au-in-soils falls at or below the detection limit of 5 ppb. The accompanying cumulative probability graph (Figure 3) is based on the analytical results of the remaining 169 samples. Threshold values occur in the range of 40 ppb to 60 ppb. Values greater than 60 ppb are anomalous.

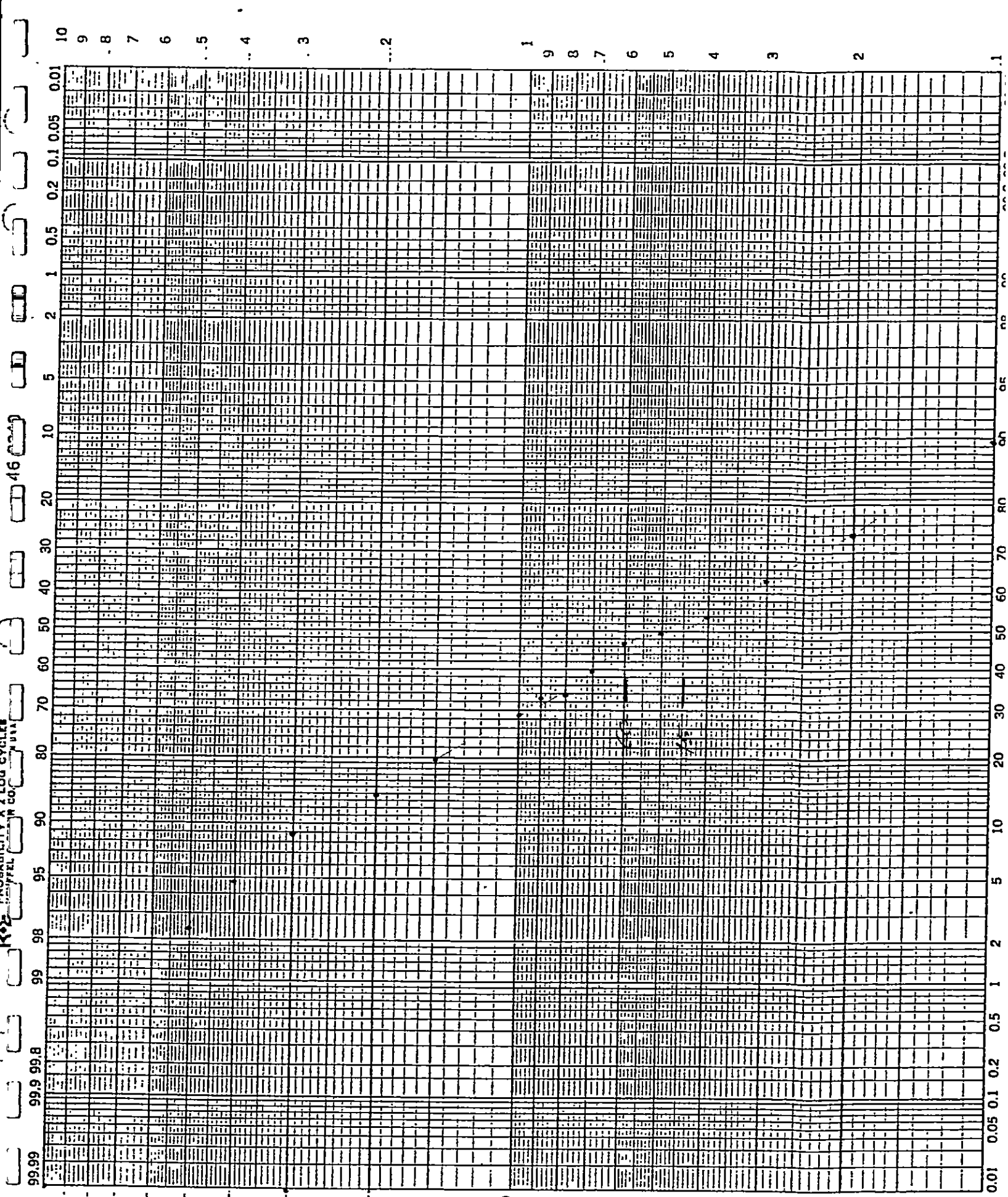


FIGURE 3.

METS CLAIMS - GR-EC-7
 ALL-IN-SOILS, 1951 DATA
 N = 169 (660 = 5ppb OMITTED)

10000 10
 9...
 8...
 7...
 6...
 5...
 4...
 3...
 2...
 10
 9
 8
 7
 6
 5
 4
 3
 2
 1
 10000 100
 10000 1000
 10000 10000

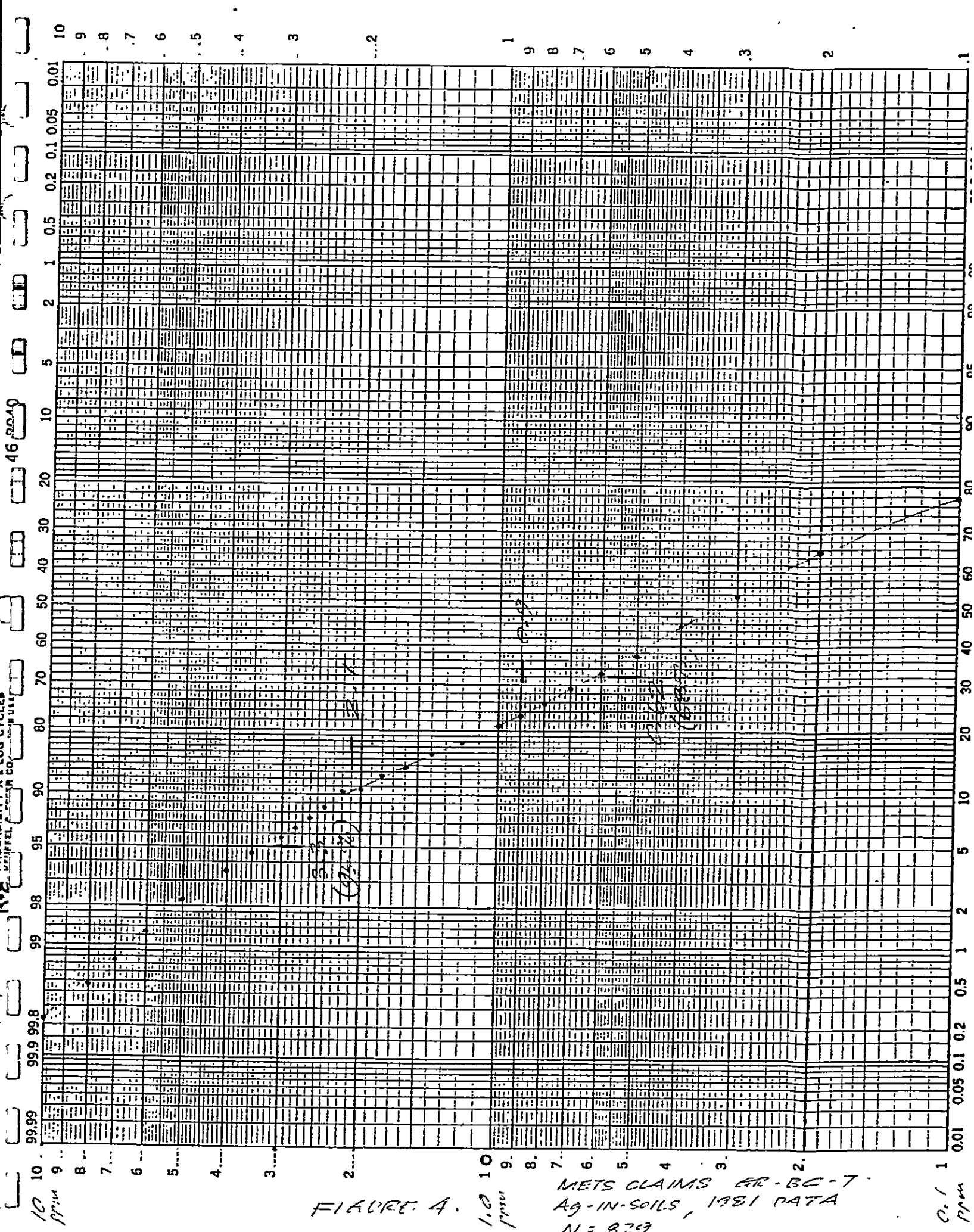
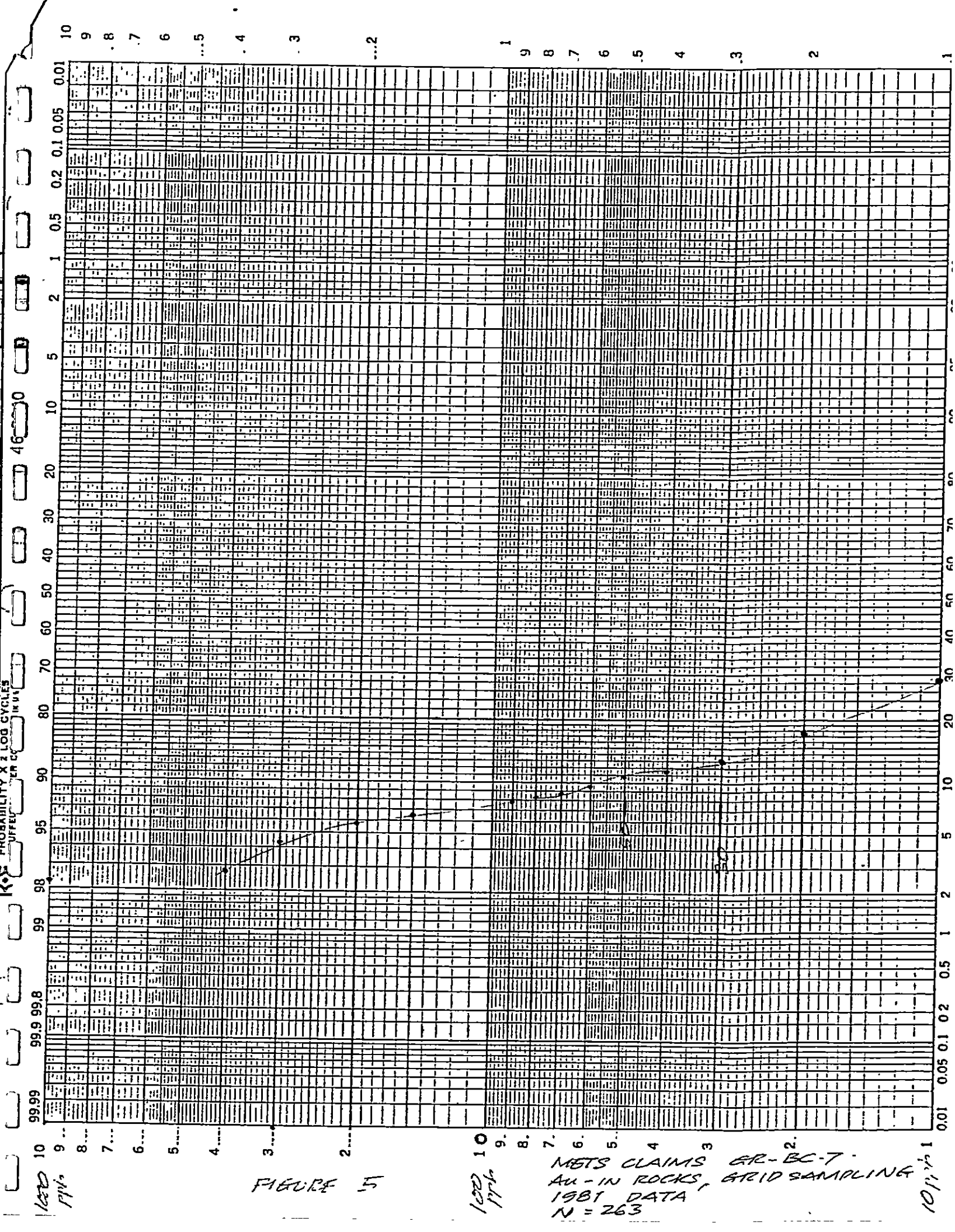


FIGURE 4.

0.1
ppm



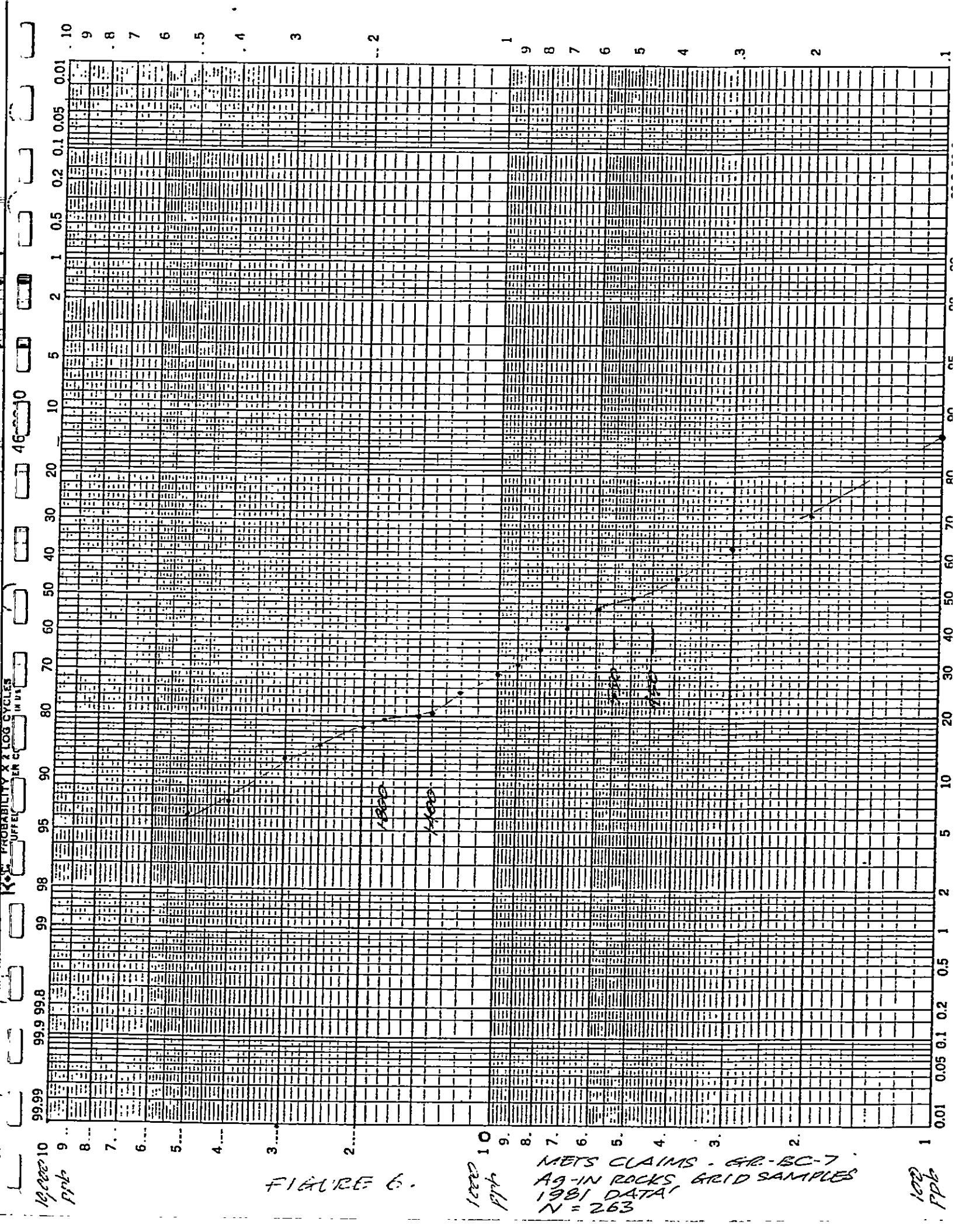


FIGURE 6.

MET'S CLAIMS - GR.-BC-7
 AG-IN ROCKS, GRID SAMPLES
 N = 263

The cumulative probability graph for Ag-in-soils (Figure 4) indicates a distribution closely approximating a normal distribution. Slight inflections in the graph indicate that threshold values fall in the range of 0.9 ppm to 2.1 ppm and values greater than 2.1 ppm are definitely anomalous.

The cumulative probability graph for Au-in-rocks (Figure 5) indicates that threshold values (above background to probably anomalous) occur in the range of 30 ppb to 50 ppb. Values greater than 50 ppb are considered anomalous. Threshold values for Ag-in-Rocks (Figure 6) occur in the range of 1400 ppb to 1800 ppb; values greater than 1800 ppb are anomalous.

Results

Ag-in-Rocks

1. 'C' Zone Area

Rock chip samples collected systematically at grid stations in the detailed grid area in the southeastern corner of the Mets 2 claim have outlined two large zones of anomalous Ag values.

One zone varies in width from 25m to 200m and extends northwestwards for approximately 800m along a trend subparallel to Tie Line 13+00E. This zone narrows to the north, where it is still open along strike, and extends off the claims to the south. A second zone, 250m wide at its widest point, trends north-northeastwards for approximately 300m, crossing Lines 2N and 3N, 150m to 200m east of Tie Line 13E. Possibly related zones extend the strike length of this zone an additional 300m to the south. The zone is still open to the north. Rock samples collected from zones of mineralization and alteration within these areas (see detailed geology map - 'C' Zone) have returned very high Ag and Au geochemical values.

2. 'B' Zone Area

Rock chip samples collected systematically at grid stations in the detailed grid area in the west-central part of the Mets 2 claim have outlined two zones of anomalous Ag values.

One of the zones averages 50m in width and extends northwestwards for approximately 300m along a trend subparallel to Tie Line 8+00E. This zone is open along strike to the southeast. A second zone averages 25m in width and extends north-northeasterly for approximately 400m. The zone is open along strike at both ends, and merges with the first-described anomalous zone at its south end. Soils geochemistry indicates a probable extension of the northwesterly trending zone of approximately 600m to the southeast. Ag-in-soils data also suggest a possible left lateral offset of the north-northeasterly trending zone where it meets the northwesterly trending zone. The soils data indicate a probable 600m long southerly trending extension of this zone. The possible left lateral offset is estimated to be 150m to 200m.

3. 'A' Zone Area

No detailed grids were established in the 'A' Zone areas of the Mets 1 claim. Semi-reconnaissance mapping and rock sampling have so far identified two zones of anomalous Au- and Ag-in-rock values. Both zones are associated with Ag-in-soils anomalies and are described in greater detail elsewhere in this report (see section on 'Property Geology').

Au-in-Rocks

Rock chip samples collected systematically at grid stations in the 'B' and 'C' detailed grid areas have outlined a number of anomalous zones that exhibit close spatial relationships to the above-described Ag-in-rock anomalies.

In the 'C' Zone area, Au-in-rock anomalies are somewhat more restricted in areal extent than the Ag-in-rock anomalies. Anomalous Au-in-rock values occur in two prominent trends that closely follow the anomalous Ag-in-rock zones. The northwesterly trending zone exhibits continuity and strike length similar to that of the Ag anomaly. The north-northeasterly trending zone averages only 25m in width, much narrower than the corresponding Ag anomaly, and more clearly defines the north-northeastwards trend of this zone.

In the 'B' Zone area, anomalous Au-in-rock values show a strong correspondence to anomalous Ag-in-rock values in the north-northeasterly trending anomalous zone. Continuity of the anomalous Au-in-rock trend is not as well defined as the anomalous Ag-in-rock trend in the northwesterly striking zone. Soils data, however, suggest an 800m strike length for the northwesterly trending zone, still open to the north, and a left lateral offset of the north-northeasterly trending zone where it crosses the northwest trending zone.

No detailed grids were established in the 'A' Zone areas of the Mets 1 claim. Two areas of significant Au-in-rock values have been identified by work to date and are described elsewhere in this report (see section on 'Property Geology').

Ag-in-Soils

1. 'C' Zone Area

Anomalous trends of Ag-in-soils values exhibit dimensions and trends similar to those of anomalous Ag-in-rock trends described above. Ag-in-soils anomalies tend to be a little larger and more diffuse, as would be expected. Continuity of the soils anomaly is not as good as that of the rock anomaly in the northwesterly trending zone.

2. 'B' Zone Area

Anomalous Ag-in-soils values in this area form two prominent trends closely corresponding to the previously described Ag-in-rocks trends.

3. 'A' Zone Area

Anomalous Ag-in-soils trends occur over a 400m by 600m area in the west-central part of the Mets 1 claim and in two sizeable zones in the southeast part of this claim. The most easterly of the latter two zones is a 25m to 100m wide, 600m long, northwesterly trending zone open along strike in both directions. A second 25m to 150m wide, 400m long, northerly to north-northeasterly trending zone occurs approximately 200m to the west.

4. Other Areas

Highly anomalous Ag-in-soils values also occur at several other locations in the Mets 1 claim area. These zones are smaller than the

three major zones described above, but they also warrant detailed follow-up.

Two 25m wide, 200m long anomalous Ag-in-soils trends located in the west-central part of the Mets 2 claim also warrant follow-up, as does another weakly anomalous zone located near the middle of the south boundary of the Mets 2 claim.

Au-in-Soils

Au-in-soils anomalies correspond closely to the above described Ag-in-soils anomalies in the 'C' and 'B' Zones.

A moderately to strongly anomalous, 800m long, north-northwesterly trending zone occurs near the west boundary of the Mets 2 claim. This zone is subparallel to, and approximately 200m west of the northwesterly trending anomaly in the 'B' grid area.

In the 'A' Zone area, a strong, 200m long anomalous trend is defined by two 300+ ppb Au-in-soil values in the southeast corner of the Mets 1 claim. This zone occurs in the vicinity of glassy, fractured, limonite-stained rhyolitic tuffs (see sample MS-37) and lies approximately midway between the two anomalous Ag-in-soils trends which also occur in the southeast corner of the Mets 2 claim.

A few other 'spot' highs occur elsewhere on the Mets claims at L36N-1775E (130 ppb), L26N-2775E (120 ppb), L6N-0050E (240 ppb), L12N-425E (95 ppb), and L2N-0900E (155 ppb). All of these areas warrant follow-up checks in the field.

Stream Silts

Samples JS-ST-33 to 35 and JS-ST-50 to 54 define two separate anomalous Ag-in-silt trends at the headwaters of two tributaries of Metsantan Creek which drain the 'B' Zone area. Work done to date on the 'B' Zone provides a satisfactory check of these anomalies.

A single 750 ppb Au-in-silt value occurs at the sample site for JS-ST-30 in an area underlain by 'A' Zone rhyolites. Sampling below this point failed to confirm the presence of very high Au-in-silt values found during an earlier survey (see assessment report on the

Mets claims by this writer dated March 1981). This area should be re-sampled to confirm the presence of the anomaly at the JS-ST-30 sample site, and to determine why the earlier anomaly was not detected.

CONCLUSIONS AND RECOMMENDATIONS

The Au and Ag rock and soil anomalies in the 'B' and 'C' Zones constitute attractive, epithermal, stockwork-type precious metals exploration targets. The geologic settings of these zones bear strong similarities to the setting at the Amethyst Gold Breccia Zone currently being developed by Serem.

Further exploration of the 'C' Zone will require additional detailed rock and soil sampling to trace the extensions of the anomalous trends to the north. Detailed mapping and sampling coverage of anomalous trends in the 'B' Zone should be similarly extended.

Sufficient data have been obtained to date over the 'C' Zone to site trenches for further evaluation of mineralized trends. An estimated 1000m of bulldozer trenching and detailed trench mapping and sampling should be adequate to check the anomalous trend which runs subparallel to Tie Line 13E. The severe topography on the northeast facing ridge slopes will preclude bulldozer trenching in this area. However, hand trenching and blasting should be effective enough to clear talus and permit sampling of the mineralized trends.

The two anomalous Au and Ag trends in the 'B' Zone will also be amenable to further evaluation by bulldozer trenching and detailed trench mapping and sampling. This work should be preceded by the additional detailed grid-controlled mapping and sampling recommended above.

The widespread Ag-in-soils anomalies, favorable geologic setting, and anomalous Au and Ag values found to date in rocks, provide justification for further exploration of the 'A' Zone areas. This work should consist of an estimated 20 line km of detailed grid mapping and soil sampling along lines spaced 100m apart. Soil sampling should be augmented by careful sampling of all rock exposures to try and pin down the somewhat unpredictable mineralized trends in this area.

Bulldozer trenching in this remote area will be very expensive, requiring airlifting in of heavy equipment. It is therefore recommended that this program be mobilized on a cooperative basis with other companies who are also active in the Toodoggone area. Work being carried out by

GEOPHYSICS

In April 1981, a total of 42 line km of airborne VLF-E.M. and magnetic surveying were carried out over the Mets claims. Instrumentation, survey techniques, and the results of this work are described in a separate report included in Appendix III.

Lacana Mining Corp., Great Western Petroleum Ltd., and Texasgulf (now Kidd Creek Mines Ltd.) has progressed to the point where they may be planning to carry out trenching programs of their own. They should be contacted to see if they are interested in mobilizing and demobilizing heavy equipment on a cost-sharing basis.

CHAPPELLE PROJECT COSTS

Mets Claims

"Pro Rata" charges, see Schedule A

PERSONNEL

M. Fox	Aug. 7, 8, 9, 1/2 23, 1/4 24, 1/4 25, 30	5 days @ \$250.00	1,250.00	
R. Davies	Aug. 8, 9, 24, 30	4 days @ \$141.88	567.52	
D. Thompson	Aug. 7, 8, 9, 10, 24	5 days @ \$141.88	709.40	
T. Nelson	Aug. 7, 8, 9, 24	4 days @ \$156.25	625.00	
D. Newman	Aug. 7, 8, 24	3 days @ \$120.31	360.93	
J. Selwyn	Aug. 7, 8, 9, 15, 24	5 days @ \$120.31	601.55	
H. Larsen	Aug. 7, 8, 9,	3 days @ \$ 91.56	274.68	
M. Plumbtree	Aug. 8, 9, 24, 30	4 days @ \$ 91.56	366.24	
B. Moffatt	Aug. 7, 8, 9, 24, 1/2 30	4 1/2 days @ \$120.31	541.40	
R. Netolitzky	Aug. 23, 1/2 24	1 1/2 days @ \$300.00	450.00	5,746.72
		39 man days		
Pro Rata labour charges	39 man days @ \$29.53			1,151.67

HELICOPTER

Aug. 7	4.2 hours		
Aug. 8	5.1		
Aug. 9	5.0		
Aug. 10	0.5		
Aug. 15	0.5		
Aug. 23	1.5		
Aug. 24	3.0		
Aug. 25	1.0		
Aug. 30	1.2		
	22.0 hours @ \$375/hour	8,250.00	
Fuel	22.0 hours x 100L @ \$1.25/L	2,750.00	
Oil	22.0 hours @ \$1.95	42.90	11,042.90

CAMP & ACCOMMODATION

Taiga crew = 39 man days; heli crew = 10 man days			
Food	49 man days @ \$18	882.00	
Camp Equipment	49 man days @ \$12	588.00	
Pro rata camp and accommodation charges	49 man days @ \$6.06	296.94	1,766.94

<u>TRANSPORTATION</u>		
3/4-ton 4x4	pro rata 49 man days @ \$4.88	239.12
<u>EQUIPMENT RENTALS</u>		
two SBX-11 transceiver radios	pro rata 49 man days @ \$2.02	98.98
<u>FUEL</u>	pro rata 49 man days @ \$1.27	62.23
<u>EXPEDITING SERVICES</u>		
	pro rata 49 man days @ \$4.88	239.12
<u>FIXED-WING SUPPORT</u>		
	pro rata 49 man days @ \$22.77	1,115.73
<u>DISPOSABLE SUPPLIES</u>		
Sample bags, flagging, notebooks, etc.	381.55	
Pro rata	49 man days @ \$2.36	115.64
		497.19
<u>FREIGHT & COURIER</u>		
	pro rata 49 man days @ \$6.17	302.33
<u>MISCELLANEOUS EXPENSES</u>		
Telephone, photocopying, maps, etc.	pro rata 49 man days @ \$2.48	121.52
<u>TRAVEL EXPENSES</u>		
	pro rata 49 man days @ \$14.06	688.94
<u>HANDLING CHARGES</u>		
12% of third-party expenses	pro rata 49 man days @ \$3.53	172.97
<u>GEOCHEMICAL ANALYSES</u>		
906 Au and Ag analyses of soil and silt samples @ \$5.40	4,892.40	
332 Au and Ag analyses of rock samples @ \$9.00	2,988.00	7,880.40
<u>AIRBORNE GEOPHYSICAL SURVEY</u>		
VLF-EM and magnetic surveys, 41.95 line km @ \$84.56		3,547.29
<u>POST-FIELD EXPENSES</u>		
Report preparation, data plotting, etc.	2,500.00	
Drafting	500.00	
Secretarial	150.00	
Photocopying, reproductions	300.00	3,450.00
		<u>3,450.00</u>
	GRAND TOTAL	<u>\$ 38,124.05</u>

CHAPPELLE PROJECT EXPENSES - SCHEDULE A

Schedule of Expenditures, General Labor Costs, Travel Expenses, Crew Mobilization Costs, General Project Expenses - to be applied on a pro rate basis to various claim blocks as per man-day formula (total of 297 man days on the project).

PERSONNEL

M. Fox	Aug. 1,2,3,6,31	1,145.00	
R. Davies	Aug. 4($\frac{1}{2}$),5,6,16,28,31	780.34	
D. Thompson	Aug. 5,6,16,28,31	709.40	
T. Nelson	Aug. 4($\frac{1}{2}$),5,6,16,28,31,Sep.1	1,015.63	
D. Newman	Aug. 5,6,30,31	481.24	
J. Selwyn	Aug. 1,2,3,4,5,6,16,25	962.48	
H. Larsen	Aug. 1,2,3,4,5,6,16,24	732.48	
M. Plumbtree	Aug. 5,6,7,16,28,31, Sep.1	549.36	
B. Moffatt	Aug. 4,5,6,16,28,31	721.86	
B. Coffey	Aug. 19,24,28,30,31	759.15	
R. Netolitzky	July;Aug.22,25	912.50	
		<u>8,769.44</u>	$\div 297 = 29.53/\text{man day}$

CAMP & ACCOMMODATION

Taiga crew	48 man days @ \$30	1,440.00	
Heli crew	Aug.5,6,10,11,12,28 12 man days @ \$30	<u>360.00</u>	
		1,880.00	$\div 297 = 6.06/\text{man day}$

TRAVEL EXPENSES

4,175.03 \div 297 = 14.06/man day

FUEL (gasoline)

378.40 \div 297 = 1.27/man day

EXPEDITING

1,450.00 \div 297 = 4.88/man day

FREIGHT & COURIER

1,831.63 \div 297 = 6.17/man day

DISPOSABLE SUPPLIES

701.71 \div 297 = 2.36/man day

MISC. EXPENSES

Telephone, photocopying, maps,
contract drafting (land update) 735.41 \div 297 = 2.48/man day

HANDLING CHARGES on third-party expenses
\$8,729.65 x 12%

1,047.56 \div 297 = 3.53/man day

TRANSPORTATION

3/4-ton 4x4 1,450.00 \div 297 = 4.88/man day

RADIO RENTAL

SBX-11 (two) radios 600.00 \div 297 = 2.02/man day

FIXED-WING SUPPORT

		Service	Fuel Mob
Aug. 2	Caribou		2,267.00
5	"	2,039.00	
7	"		2,067.00
11	Cessna 185	449.00	
19	"	497.00	
20	"	491.00	
22	"	491.00	
25	"	491.00	
27	DC-3		2,235.00
31	"	<u>2,306.00</u>	
		6,764.00	<u>6,569.00 = 13,333.00</u>

Service flights: apply to various claim groups on a pro rata per man day basis $6,764.00 \div 297 = 22.77/\text{man day}$

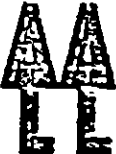
Fuel Mob flights: apply to various claim groups according to heli hours and average cost per litre for transport:

Aug.2	$\$2267 \div (18 \times 205\text{L drums} = 3690\text{L}) = \$0.6144 + \$0.6101$	
	$= \$1.2245/\text{L} \times 3690 =$	$\$ 4,518.40$
Aug.7	$\$2067 \div (18 \times 205\text{L drums} = 3690\text{L}) = \$0.5602 + \$0.6101$	
	$= \$1.17/\text{L} \times 3690 =$	$\$ 4,317.30$
Aug.27	$\$2235 \div (14 \times 205\text{L drums} = 2870\text{L}) = \$0.7788 + \$0.6096$	
	$= \$1.3884/\text{L} \times 2870 =$	$\$ 3,984.71$
	<u>10250L</u>	<u>$\\$12,820.41$</u>

\$1.251/L average cost
 \$125.10 fuel cost per heli hour

A P P E N D I X I

Analytical Techniques



ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B.C. V6A 1R6

Telephone : 253-3158

GEOCHEMICAL LABORATORY METHODOLOGY - 1981

SAMPLE PREPARATION

1. Soil samples are dried at 60°C and sieved to -80 mesh.
2. Rock samples are pulverized to -100 mesh.

Geochemical Analysis for Ag*, Bi*, Cd*, Co, Cu, Fe, Mn, Mo, Ni, Pb, Sb*, V, Zn

0.5 gram samples are digested hot dilute aqua regia in a boiling water bath and diluted to 10 ml with demineralized water.

All the above elements are determined in the acid solution by Atomic Absorption.

* denotes background correction.

Geochemical Analysis for Au

10.0 gram samples that have been ignited overnight at 600°C are digested with hot dilute aqua regia, and the clear solution obtained is extracted with Methyl Isobutyl Ketone.

Au is determined in the MIBK extract by Atomic Absorption using background correction (Detection Limit = 5 ppb direct AA and 1 ppb graphite AA.)

Geochemical Analysis for Au, Pd, Pt, Rh

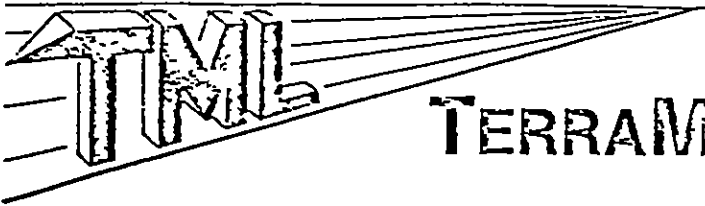
10.0 - 30.0 gram samples are subjected to Fire assay preconcentration techniques to produce silver beads.

The silver beads are dissolved and Au, Pd, Pt, and Rh are determined in the solution by Atomic Absorption.

Geochemical Analysis for As

0.5 gram samples are digested with hot dilute aqua regia and diluted to 10 ml.

As is determined in the solution by Graphite Furnace Atomic Absorption.



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14-2235 - 30th Avenue N.E. Calgary, Alberta T2E 7C7
(403) 276-8668

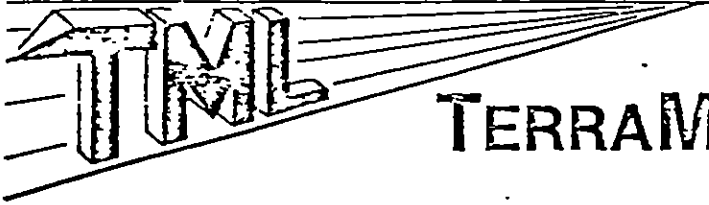
GOLDEN RULE RESOURCES

SAMPLE PREPARATION

Soil and sediment samples are dried and sieved to -80 mesh (approx. 200 micron).

Rock Samples:

The entire sample is crushed to approx. 1/8" maximum, and split divided to obtain a representative protion which is pulverized to -200 mesh (approx 90 micron).



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(403) 276-8668

GOLDEN RULE RESOURCES

ANALYTICAL METHOD FOR GOLD AND SILVER

Approximately 1 assay ton of prepared sample is fused with a litharge/flux charge to obtain a lead button. The lead button is cupelled to obtain a prill. The prill is dissolved in nitric/hydrochloric acids (aqua regia), and the resulting solution is analysed by atomic absorption spectroscopy.

A P P E N D I X I I

Geochemical Analyses



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 1/21

Sample No.	Au ppb	Ag ppb
MS L 0+00 11+00 E	6	300
11+25	6	660
11+50	142	26000
11+75	< 2	280
12+00	< 2	140
12+25	164	13600
12+50	56	16200
12+75	126	42000
13+00	2	360
13+25	2	140
13+50	4	160
13+75	12	710
14+00	6	260
14+25	4	180
14+50	4	80
14+75	10	330
15+00	336	3000
15+25	6	530
15+50 E	10	540
15+75	6	90
16+00	6	920
16+25	4	530
16+50	14	1050
16+75	20	500
17+00	16	820



ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 1/21

Sample No.	Au ppb	Ag ppb
MS L 0+00 11+00 E	6	300
11+25	6	660
11+50	142	26000
11+75	< 2	280
12+00	< 2	140
12+25	164	13600
12+50	56	16200
12+75	126	42000
13+00	2	360
13+25	2	140
13+50	4	160
13+75	12	710
14+00	6	260
14+25	4	180
14+50	4	80
14+75	10	330
15+00	336	3000
15+25	6	530
15+50	10	540
15+75	6	90
16+00	6	920
16+25	4	530
16+50	14	1050
16+75	20	500
17+00	16	820



ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 2/21

Sample No.	Au ppb	Ag ppb
MS L 0+00 17+25 E	10	1210
17+50	12	640
17+75	2	290
18+00	< 2	840
MS L 1N 11+00 E	4	460
11+25	2	800
11+50	< 2	3300
11+75	< 2	160
12+00	14	220
12+25	8	1360
12+50	74	230
12+75	32	400
13+00	6	180
13+25	8	150
13+75	2	20
14+00	4	400
14+25	< 2	60
14+50	< 2	270
15+00	4	90
15+25	4	280
15+50	12	170
15+75	6	130
16+00	8	120
16+25	28	2400



ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 3/21

Sample No.	Au ppb	Ag ppb
MS LLN 16+50 E	12	250
16+75	12	560
17+25	8	240
MS L2N 11+00	6	110
11+25	16	400
11+50	20	110
11+75	4	320
12+00	< 2	200
12+50	24	4400
12+75	16	1160
MSR L2N 13+00	18	3500
TL L2N 13+00	306	2300
MSR L2N 13+25	20	6000
13+50	10	750
13+75	6	500
14+00	14	1320
14+25	2	370
14+50	4	170
14+75	10	4500
15+00	10	9600
15+25	8	13000
15+50	32	2400
15+75	14	3600
16+00	6	1950



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ANALYTICAL REPORT

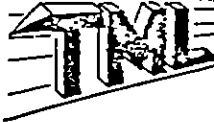
Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 4/ 21

Sample No.	Au ppb	Ag ppb
MSR L2N 16+25 E	8	3600
16+50	16	1900
16+75	4	4000
17+00	8	1470
17+25 (a)	10	8100
17+25 (b)	8	3000
17+50	4	460
18+00	70	220
MS L3N 11+00 E	4	740
11+25	2	430
11+50	< 2	530
11+75	24	2100
12+00	6	910
12+25	2320	11200
12+50	6	430
12+75	4	140
13+00	6	60
MSR L3N 13+25 E	6	100
13+50	4	110
13+75	4	200
14+00	12	900
14+25	6	610
14+50	16	1360
14+75	10	820



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 5/ 21

Sample No.				Au ppb	Ag ppb
MSR	L3N	15+00	E	16	1350
		15+25		6	230
		15+50		6	450
		15+75		10	720
		16+00		38	5800
		16+25		26	2800
		16+50		30	4100
		16+75		8	1060
		17+00		8	780
		17+25		6	400
		17+50		8	3700
		17+75		6	500
MS	L4N	11+00	E	20	700
		11+50		18	680
		11+75		264	1320
		12+00		266	12800
		12+25		6	630
		12+50		6	140
		12+75		2	600
		13+00		4	550
		13+25		6	20
		13+60		2	190
		13+75		6	50
MS	L5N	11+00	E	6	330



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 6/21

Sample No.				Au ppb	Ag ppb
MS	L5N	11+25	E	4	460
		11+50		6	4000
		11+75		8	1130
		12+00		6	320
		12+25		4	1350
		12+50		4	410
		12+75		8	1840
		13+00		2	90
		13+25		< 2	90
		13+50		< 2	10
MS	L6N	11+00	E	2	610
		11+25		4	300
		11+50		2	70
		11+75		8	620
		12+00		6	1020
		12+25		4	810
		12+50		< 2	1140
		12+75		< 2	420
		13+00		< 2	3300
		13+25		18	360
		13+50		2	180
M	L1S	11+00	E	< 2	1020
		11+25		8	3200
		11+50		386	46000



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 7/ 21

Sample No.				Au ppb	Ag ppb
M	L1S	11+75	E	20	2900
		12+00		24	5600
		12+25		10	3100
		12+50		42	1150
		12+75		10	2020
		13+00		2	680
		14+25		130	720
		14+50		84	3800
		14+75		6	250
		15+00		18	330
		15+25		< 2	520
		15+50		2	710
		15+75		< 2	1090
		16+00		18	3500
		16+25		< 2	390
		16+50		< 2	780
		16+75		6	760
		17+00		6	320
		17+25		4	690
		17+50		4	200
		17+75		38	1030
		18+00		24	1000
MS	L2S	11+00	E	56	12000
		11+25		4	940



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 8/ 21

Sample No.				Au ppb	Ag ppb
MS	L2S	11+50	E	10	1300
		11+75		4	880
		12+00		28	10200
		12+25		4840	3900
		12+50		10	2300
		12+75		240	18700
		14+50		< 2	100
		14+75		< 2	160
		15+25		< 2	130
		15+50		< 2	40
		15+75		64	680
		16+00		4	980
		16+25		4	640
		16+50		< 2	250
		16+75		110	620
		17+00		< 2	300
		17+25		< 2	170
		18+00		< 2	1040
MS	L15N	5+00	E	< 2	< 10
		5+50		< 2	650
		5+75		< 2	340
		6+00		< 2	40
		6+25		< 2	20
		6+50		< 2	150



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 9/21

Sample No.				Au ppb	Ag ppb
MS	L15N	6+75	E	2	330
		7+00		< 2	120
		7+25		4	2900
		7+50		2	2400
		7+75		6	1060
		8+00	E	1010	2150
		8+25		14	240
		8+75		2	350
		9+00		< 2	250
		9+25		24	130
		9+50		2	240
		9+75		10	180
		10+00		4	690
MS	L16N	5+00	E	42	770
		5+25		< 2	60
		5+50		2	50
		6+50		< 2	400
		6+75		< 2	40
		7+00		< 2	140
		7+25		10	3200
		7+50		6	11100
		7+75		< 2	750
		8+00		4	940
		8+25		2	90



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 10/21

Sample No.	Au ppb	Ag ppb
MS L16N 8+50 E	2	100
8+75	6	940
9+00	26	2500
9+25	14	1300
9+50	5120	1350
9+75	544	1300
10+00	36600	1640
MS L17N 5+50 E	< 2	180
5+75	< 2	230
6+00	104	180
6+25	24	190
6+50	14	520
6+75	2	350
7+00	2	1630
7+25	1294	900
7+50	6	1330
7+75	4	120
8+00	< 2	90
8+25	< 2	50
8+50	4	30
8+75	8	60
9+00	4	900
9+25	< 2	380
9+50	< 2	360



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 11/21

Sample No.	Au ppb	Ag ppb
MS L17N 9+75 E	2	170
10+00	322	900
MS L18N 5+00 E	2	170
5+25	< 2	100
5+50	< 2	30
5+75	< 2	30
6+25	< 2	20
6+50	< 2	40
6+75	< 2	270
7+00	< 2	290
7+25	< 2	490
7+50	224	620
7+75	< 2	200
8+00	60	760
8+25	< 2	770
8+50	< 2	50
8+75	< 2	330
9+00	< 2	70
9+25	< 2	120
9+50	< 2	160
9+75	< 2	410
10+00	8	110
MS 8	10	2200
9	14	1730



TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 12/21

Sample No.	Au ppb	Ag ppb
MS 9	14	1730
10	180	5200
11	32	4000
12	< 2	1420
13	10	1350
14	30	3300
15	< 2	80
16	4	1040
17	< 2	140
18	< 2	290
20	< 2	110
21	616	6100
22	70	2200
23	4560	1880
26	40	80
27	2320	1400
28	8	200
29	< 2	130
29 (a)	2	210
30	< 2	310
31	92	860
32	300	8600
33	< 2	290
35	< 2	600

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 13/21

Sample No.	Au ppb	Ag ppb
MS 36	20	2300
37	< 2	1290
38	108	10700
39	< 2	100
41	8	1240
42	< 2	80
43	< 2	350
48	< 2	120
49	26	820

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 16/21

Sample No.	Au ppb	Ag ppb
MSPT 1	< 2	50
11	< 2	60
12	< 2	40
18	< 2	300
20	< 2	590

ANALYTICAL REPORT

Job # 81-286

Date January 25, 1982

Client Project GR-BC-7

Page 17/21

Sample No.	Au ppb	Ag ppb
MSDT 21	182	101000
22	18	1600
23	6	3500
25	2	2000
26	< 2	320
28	12	3600
29	10	880
30	172	5600
31	36	520
32	848	8800
33	12	540
34	6000	41000
35	788	13800
36	18	3600
37	36	6000
38	< 2	430
39	8	2400
40	24	380
42	6	1650
43	856	2500
44	42	6300
46	68	540



ANALYTICAL REPORT
GOLDEN RULE RESOURCES LTD.

Job #81-289

Date September 25, 1981

Client Project

Page 1/1

Page 1/1

Sample No.	Au ppb	Ag ppb	
4157	8	780	<i>72-coat amethyst from talus.</i>
4158	1464	148000	<i>RU 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000</i>
4160	4240	31000	<i>RU-3 ? 01355, 1440 E at vuggy ft to 1 ft from side. at 100 m from 92</i>
4161	2	130	<i>samples 1905-5175 E at vuggy, rusty zone</i>



To: Golden Rule Resources Ltd.,
150 - 1300, 8th S.W.
Calgary, Alberta,
T2R 1P2

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone: 253 - 3158

File No. 81-1333

cc : Taiga Consultants Ltd.,

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

Mets (MS) Claims

SAMPLE No.		Ag	Au																	
L00 6+00E		.1	.005																	1
6+25		.1	.005																	2
6+50		.2	.005																	3
6+75		.2	.005																	4
7+00		.1	.005																	5
7+25		.2	.005																	6
7+50		.4	.005																	7
7+75		.4	.005																	8
8+00		.5	.005																	9
8+25		.4	.005																	10
8+50		.5	.005																	11
8+75		.4	.005																	12
9+00		.8	.005																	13
9+25		.3	.005																	14
9+50		.6	.005																	15
9+75		.5	.005																	16
10+00		2.1	.005																	17
10+25		.6	.005																	18
10+50		.4	.005																	19
10+75		.4	.025																	20
11+00		.6	.005																	21
11+25		1.4	.005																	22
11+50		1.2	.005																	23
11+75		.5	.005																	24
12+00		1.0	.005																	25
12+25		.9	.035																	26
12+50		1.1	.070																	27
12+75		5.8	.050																	28
13+00		1.7	.045																	29
13+25	N.S.																			30
13+50		3.7	.070																	31
13+75		.3	.005																	32
14+00		.8	.005																	33
14+25		.2	.005																	34
14+50	N.S.																			35
14+75		.4	.005																	36
L00 15+00		2.6	.360																	37
																				38
																				39
																				40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER

DKL

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ASSAYING & TRACE ANALYSIS
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au								
L00 15+75E	1.0	.030								1
										2
L00 16+50E	1.6	.120								3
16+75	1.7	.060								4
17+00	1.6	.045								5
L00 18+00E	.7	.100								6
										7
L1N 11+25E	.3	.005								8
11+50	.3	.005								9
11+75	.1	.005								10
12+00	1.3	.045								11
12+25	2.5	.390								12
13+00	.4	.005								13
13+25	.1	.005								14
13+50	.2	.005								15
14+00	.1	.040								16
14+50	.9	.005								17
15+75	.3	.005								18
16+00	.4	.005								19
17+00	.6	.005								20
17+25	.2	.005								21
17+50	1.2	.005								22
L1N 17+75E	.2	.005								23
										24
L2N 6+00E	.5	.005								25
6+25	.1	.005								26
6+50	.1	.005								27
6+75	.1	.005								28
7+00	.1	.005								29
7+25	1.3	.005								30
8+00	.1	.005								31
8+25	.1	.005								32
9+00	.2	.155								33
9+25	.1	.035								34
9+50	.1	.005								35
9+75	.1	.005								36
10+00	.6	.005								37
10+75	.5	.005								38
11+00	.3	.005								39
L2N 11+50E	.1	.005								40

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DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER DTG

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.		Ag	Au																		
L2N	12+00E	.3	.005																		1
	12+50	.7	.005																		2
	12+75	.5	.005																		3
	13+00	.9	.005																		4
	13+25	1.3	.010																		5
	13+50	.5	.065																		6
	13+75	.4	.005																		7
	14+00	.3	.005																		8
	14+25	.1	.005																		9
	14+50	.3	.005																		10
	14+75	1.9	.025																		11
	15+00	6.5	.005																		12
	15+25	4.9	.005																		13
	15+50	3.3	.005																		14
	15+75	12.6	.005																		15
	16+00	4.0	.005																		16
	16+25	3.9	.015																		17
	16+50	5.8	.010																		18
	17+25	2.6	.005																		19
	17+75	2.4	.005																		20
L2N	18+00E	2.0	.005																		21
																					22
																					23
																					24
L3N	11+00E	.4	.005																		25
	11+50	.2	.100																		26
	11+75	.6	.010																		27
	12+25	.9	.120																		28
	12+50	.7	.005																		29
	12+75	.1	.005																		30
	13+00	.6	.005																		31
	13+25	.2	.005																		32
	13+50	.1	.005																		33
	13+75	.1	.035																		34
	14+00	1.6	.010																		35
	14+25	1.0	.015																		36
	14+50	5.9	.005																		37
	14+75	2.5	.005																		38
	15+00	2.3	.020																		39
	15+25	3.9	.020																		40

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DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER DT

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

SAMPLE No.	Ag	Au								
L3N 15+50E	3.0	.050								1
16+50	3.2	.005								2
L3N 17+75E	.9	.005								3
L4N 6+75E	.3	.005								4
7+00	.3	.005								5
7+25	.3	.005								6
7+50	.8	.005								7
7+75	.6	.005								8
8+00	.4	.005								9
8+25	.3	.005								10
8+50	.1	.005								11
8+75	.7	.005								12
9+00	.2	.005								13
9+25	.2	.005								14
9+50	.3	.005								15
10+25	.2	.005								16
10+50	.4	.005								17
10+75	.3	.095								18
11+00	.8	.005								19
11+25	1.2	.065								20
11+50	1.1	.005								21
12+25	1.8	.005								22
12+50	.7	.005								23
12+75	1.0	.015								24
13+00	.8	.005								25
13+25	.4	.005								26
L4N 13+50E	.4	.005								27
L5N 11+00E	.3	.005								28
11+25	.9	.065								29
11+50	1.5	.005								30
11+75	.6	.005								31
12+00	.3	.095								32
12+25	1.1	.170								33
12+50	.5	.025								34
12+75	3.2	.370								35
13+00	.3	.020								36
L5N 13+25E	.2	.010								37
										38
										39
										40

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 All results are in PPM.
 DIGESTION: _____
 DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981
 DATE REPORTS MAILED Sept. 17, 1981
 ASSAYER DT

DEAN TOYE, B.Sc.
 CHIEF CHEMIST
 CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B.C. V6A 1R6
phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L6N 11+00E	.2	.005																			1
11+00	.3	.005																			Dup. 2
11+25	.3	.005																			3
11+25	.2	.005																			Dup. 4
11+50	.2	.015																			5
11+50	.1	.005																			Dup. 6
11+75	.1	.005																			7
12+00	.9	.005																			8
12+25	.8	.005																			9
12+50	1.8	.005																			10
12+75	1.6	.120																			11
13+00	3.7	.035																			12
13+25	3.4	.205																			13
L6N 13+50E	.7	.015																			14
																					15
L8N 0+00E	.1	.005																			16
0+25	.1	.005																			17
0+50	.2	.005																			18
0+75	.1	.005																			19
1+00	.1	.005																			20
1+25	.4	.005																			21
1+50	.2	.005																			22
2+25	.1	.005																			23
3+00	.2	.005																			24
3+25	.3	.005																			25
3+50	.2	.005																			26
3+75	.1	.005																			27
4+00	.1	.005																			28
4+25	.3	.005																			29
4+50	.2	.005																			30
4+75	.6	.005																			31
5+00	.1	.005																			32
5+25	.2	.005																			33
5+50	.3	.005																			34
5+75	.6	.005																			35
6+25	.1	.005																			36
6+50	.1	.005																			37
L8N 7+00E	.2	.005																			38
																					39
																					40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER SKO.

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au							
L8N 7+25E	.2	.005							1
7+50	.2	.005							2
8+25	.2	.005							3
8+50	.2	.005							4
8+75	.7	.005							5
9+00	.2	.005							6
9+25	.1	.005							7
9+50	.2	.005							8
9+75	.3	.005							9
10+25	.2	.005							10
10+50	.2	.005							11
11+25	.3	.005							12
11+50	.2	.005							13
L8N 11+75	.8	.005							14
									15
L10N 0+00E	.4	.005							16
0+25	.3	.005							17
0+50	.5	.005							18
0+75	.3	.005							19
1+00	.3	.005							20
1+25	.3	.005							21
1+50	.3	.005							22
1+75	.7	.005							23
2+00	.8	.010							24
2+25	.2	.035							25
2+50	1.7	.005							26
2+75	.5	.075							27
3+00	.8	.005							28
3+25	2.3	.018							29
3+50	.8	.005							30
3+75	2.6	.005							31
4+00	.4	.005							32
4+25	.3	.195							33
4+50	.4	.005							34
4+75	.3	.005							35
5+00	.7	.005							36
5+25	.5	.005							37
L10N 5+50E	.1	.005							38
									39
									40

All reports are the confidential property of clients
All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER JKO

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L10N 6+00E	.3	.005																			1
6+25	.6	.005																			2
7+00	4.6	.060																			3
7+25	.4	.005																			4
7+50	.5	.005																			5
7+75	.2	.005																			6
8+00	.9	.005																			7
8+25	1.3	.070																			8
8+50	.4	.005																			9
8+75	.7	.005																			10
9+00	.5	.010																			11
9+25	.4	.005																			12
9+50	.6	.005																			13
9+75	.3	.005																			14
10+00	.2	.005																			15
10+25	.1	.005																			16
L10N 10+50E	.6	.005																			17
																					18
L12N 0+00E	.1	.005																			19
0+25	.3	.005																			20
0+50	.1	.005																			21
0+75	.2	.005																			22
1+00	.3	.005																			23
1+25	.6	.005																			24
1+50	1.5	.005																			25
1+75	.9	.005																			26
2+00	.5	.075																			27
2+25	1.0	.005																			28
2+50	1.2	.005																			29
2+75	.7	.035																			30
3+00	.9	.005																			31
3+25	.7	.095																			32
3+50	.4	.005																			33
3+75	.5	.005																			34
4+00	1.7	.005																			35
4+25	.4	.005																			36
4+50	.5	.070																			37
L12N 4+75E	.3	.010																			38
																					39
																					40

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DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER JKO.

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L12N 5+00E	.1	.005																			1
5+25	.1	.005																			2
5+50	.4	.005																			3
5+75	.3	.005																			4
6+00	.4	.005																			5
6+25	.1	.005																			6
6+50	.1	.005																			7
6+75	.4	.005																			8
7+00	.5	.005																			9
7+25	.1	.005																			10
7+50	.2	.005																			11
7+75	.6	.005																			12
8+00	2.4	.105																			13
8+25	.3	.005																			14
8+50	.1	.005																			15
L12N 8+75E	.1	.085																			16
																					17
L14N 0+00E	.7	.005																			18
0+25	.3	.005																			19
0+50	.3	.005																			20
0+75	.1	.005																			21
1+25	.1	.005																			22
1+50	.2	.005																			23
1+75	.9	.010																			24
2+00	.8	.010																			25
2+25	.5	.005																			26
2+50	.3	.005																			27
2+75	.3	.005																			28
3+00	.5	.020																			29
3+25	.7	.005																			30
3+50	.4	.005																			31
3+75	.6	.005																			32
4+00	.3	.005																			33
4+25	.4	.005																			34
4+50	.5	.005																			35
4+75	.5	.095																			36
5+00	.3	.005																			37
L14N 5+25E	.4	.035																			38
																					39
																					40

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File No. 81-1333

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

SAMPLE No.	Ag	Au								
L14N 5+50E	.1	.005								1
5+75	.4	.020								2
6+00	.2	.005								3
6+25	.1	.005								4
6+50	.1	.005								5
6+75	.1	.005								6
7+00	.3	.005								7
7+25	.1	.005								8
7+50	.6	.025								9
7+75	.4	.060								10
L14N 8+00E	1.5	.260								11
										12
L15N 5+00E	.4	.005								13
5+25	.1	.005								14
5+50	.2	.025								15
5+75	.1	.005								16
6+00	.1	.005								17
6+25	.1	.005								18
6+50	.3	.005								19
6+75	.5	.005								20
7+00	.5	.020								21
7+25	3.5	.045								22
7+50	1.4	.110								23
7+75	1.7	.190								24
8+00	3.7	3.950								25
9+00	1.0	.215								26
9+25	.7	.190								27
9+50	.4	.080								28
L15N 9+75E	.5	.005								29
										30
L16N 5+00E	1.7	.675								31
5+25	.4	.105								32
6+50	.9	.005								33
6+75	.2	.005								34
7+00	1.2	.005								35
7+25	3.0	.065								36
7+50	6.2	.030								37
7+75	2.4	.005								38
L16N 8+00E	3.6	.190								39
										40

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GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au								
L16N 8+25E	.1	.040								1
8+50	.6	.130								2
8+75	2.3	.135								3
9+00	9.4	.430								4
9+50	3.0	.170								5
9+75	2.0	1.200								6
L16N 10+00E	2.4	.040								7
L17N 5+50E	.1	.005								8
5+75	.1	.005								9
6+00	.1	.005								10
6+25	2.7	.300								11
6+50	.1	.005								12
6+75	.1	.005								13
7+00	2.0	.045								14
7+25	1.0	.005								15
7+50	.3	.005								16
7+75	.1	.005								17
8+00	.1	.005								18
8+25	.1	.080								19
8+50	.1	.005								20
8+75	.1	.005								21
9+00	1.2	.005								22
9+25	2.1	.115								23
9+50	1.4	.140								24
9+75	1.4	.040								25
L17N 10+00E	2.0	.065								26
L18N 5+25E	.3	.005								27
6+00	.3	.005								28
6+25	.3	.005								29
6+50	.3	.005								30
6+75	4.8	.005								31
7+00	.5	.005								32
7+25	.4	.005								33
7+50	.5	.005								34
7+75	.8	.005								35
8+00	1.3	.240								36
L18N 8+25	Missing									37
										38
										39
										40

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File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au							
L18N 8+50E	.3	.005							1
8+75	.5	.005							2
9+00	.3	.005							3
9+25	1.2	.065							4
9+75	1.0	.005							5
L18N 10+00E	.5	.005							6
									7
L24N 19+00E	.2	.005							8
19+25	.1	.005							9
19+50	.3	.005							10
19+75	.2	.005							11
20+00	.3	.005							12
20+25	.4	.005							13
20+50	.1	.005							14
20+75	.2	.005							15
21+00	1.0	.005							16
21+25	.1	.005							17
21+50	.1	.005							18
21+75	.2	.005							19
22+00	.1	.005							20
22+25	.1	.005							21
22+50	.2	.005							22
22+75	.3	.040							23
23+00	.1	.005							24
23+25	.1	.005							25
23+50	.1	.005							26
23+75	.1	.005							27
24+00	.1	.030							28
24+25	.1	.005							29
24+50	.1	.370							30
24+75	.3	.005							31
25+00	.3	.005							32
25+25	.2	.005							33
25+50	.2	.005							34
25+75	.6	.005							35
26+00	.6	.005							36
26+25	.9	.005							37
L24N 26+50E	1.0	.005							38
									39
									40

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Assaying & Trace Analysis

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phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L24N 26+75E	1.5	.005																			1
27+00	.8	.005																			2
27+25	.2	.005																			3
27+50	.1	.005																			4
27+75	.5	.005																			5
28+00	.3	.005																			6
28+25	.6	.005																			7
28+50	.8	.005																			8
28+75	.6	.005																			9
L24N 29+00E	.8	.005																			10
L28N 19+00E	.1	.005																			11
19+25	.2	.005																			12
19+50	.2	.005																			13
19+75	.1	.005																			14
20+00	.1	.005																			15
20+25	.1	.005																			16
20+50	.1	.005																			17
21+00	2.8	.005																			18
21+25	2.4	.005																			19
21+50	2.3	.005																			20
22+00	3.4	.010																			21
22+25 org	6.7	.005																			22
22+50	1.5	.005																			23
22+75	.2	.005																			24
23+00	.4	.005																			25
23+25	.1	.005																			26
23+50	.1	.005																			27
23+75	.1	.005																			28
24+00	.1	.005																			29
24+25	.1	.005																			30
24+50	.7	.005																			31
24+75	.3	.005																			32
25+00	.4	.005																			33
25+25	.1	.005																			34
25+50	4.3	.005																			35
25+75	.3	.005																			36
L28N 26+00E	.9	.005																			37
																					38
																					39
																					40

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To: Golden Rule Resources Ltd.,

ROME ANALYTICAL LABORATORIES LTD.
Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L28N 26+25E	.8	.005																			1
26+50	1.2	.005																			2
26+75	.9	.005																			3
27+00	1.5	.005																			4
27+25	2.3	.005																			5
27+50	1.6	.005																			6
27+75	2.4	.005																			7
28+00	.5	.005																			8
28+25	.8	.005																			9
L28N 28+50E	.7	.005																			10
																					11
L30N 19+00E	.5	.035																			12
19+25	.1	.005																			13
19+50	.2	.005																			14
19+75	.3	.010																			15
20+00	.1	.005																			16
20+25	.1	.005																			17
20+50	.2	.005																			18
20+75	.2	.005																			19
21+00	.1	.005																			20
21+25	.5	.005																			21
21+50	.5	.005																			22
21+75	.2	.090																			23
22+00	.4	.005																			24
22+25	.4	.005																			25
22+50	.4	.005																			26
22+75	.7	.005																			27
23+00	1.3	.005																			28
23+25	4.7	.005																			29
23+50	.4	.005																			30
23+75	.2	.005																			31
24+00	1.3	.005																			32
24+25	1.2	.005																			33
24+50	.7	.005																			34
24+75	.5	.005																			35
25+00	1.2	.005																			36
25+25	.2	.005																			37
L30N 25+50E	.2	.005																			38
																					39
																					40

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852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au								
L30N 25+75E	.1	.005								1
26+00	.1	.005								2
26+25	.3	.005								3
26+50	.5	.005								4
26+75	.4	.005								5
27+00	.1	.005								6
27+25	.2	.005								7
27+50	.3	.005								8
27+75	.1	.005								9
28+00	.1	.005								10
28+25	.1	.005								11
28+50	.1	.005								12
28+75	.2	.005								13
L30N 29+00E	.1	.005								14
										15
L32N 13+00E	.1	.005								16
13+25	.3	.005								17
13+50	1.8	.005								18
13+75	1.1	.005								19
14+00	.3	.005								20
14+25	.1	.005								21
14+50	.2	.005								22
14+75	.2	.005								23
15+00	.2	.005								24
15+25	.1	.065								25
15+50	.1	.005								26
15+75	.7	.005								27
16+00	.2	.005								28
16+25	.1	.005								29
16+50	.3	.020								30
16+75	.5	.005								31
17+00	1.3	.005								32
17+25	.4	.010								33
17+50	.7	.005								34
18+00	.1	.005								35
18+25	.1	.005								36
19+00	.1	.005								37
L32N 19+25E	.1	.005								38
										39
										40

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GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au																			
L32N 19+50E	.5	.005																			1
19+75	1.9	.005																			2
20+00	.3	.005																			3
20+25	.1	.005																			4
20+50	.1	.005																			5
20+75	.1	.005																			6
21+00	.2	.005																			7
21+25	.1	.005																			8
21+50	.5	.005																			9
21+75	.5	.005																			10
L32N 22+00E	.3	.005																			11
																					12
L34N 13+00E	.3	.005																			13
13+50	.5	.005																			14
13+75	.5	.005																			15
14+25	1.0	.005																			16
14+50	.9	.005																			17
14+75	.8	.005																			18
15+75	1.5	.005																			19
16+00	.5	.015																			20
16+50	.4	.010																			21
16+75	.3	.005																			22
17+50	.9	.005																			23
18+00	1.1	.005																			24
18+25	.5	.015																			25
18+50	.6	.005																			26
18+75	.3	.005																			27
19+00	.4	.005																			28
19+25	.4	.005																			29
19+50	.2	.005																			30
19+75	.3	.010																			31
20+00	.1	.005																			32
20+25	.1	.005																			33
20+50	.1	.005																			34
20+75	.2	.005																			35
21+00	.4	.005																			36
21+25	.5	.005																			37
21+50	.6	.005																			38
																					39
																					40

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File No. 81-1333

Type of Samples Soils

Disposition

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.	Ag	Au								
L34N 21+75E	.2	.005								1
L34N 22+00E	.2	.005								2
										3
L36N 13+00E	.1	.005								4
13+25	.4	.005								5
13+50	.2	.020								6
13+75	.9	.005								7
14+00	4.7	.005								8
14+25	1.2	.005								9
14+50	5.3	.005								10
14+75	10.5	.005								11
15+00	.5	.005								12
15+25	2.8	.005								13
15+50	2.7	.005								14
15+75	1.7	.005								15
16+00	.6	.005								16
16+25	.5	.005								17
16+50	1.3	.005								18
16+75	5.9	.005								19
17+00	.5	.005								20
17+25	1.6	.005								21
17+50	2.1	.005								22
17+75	3.9	.130								23
18+00	2.9	.025								24
18+25	.6	.005								25
18+50	.2	.005								26
18+75	.4	.005								27
L36N 19+00E	.2	.005								28
										29
L36N 12+00E	.2	.005								30
12+25	.1	.005								31
12+50	.1	.005								32
L36N 12+75E	.1	.005								33
										34
										35
L36N 19+25E	.2	.005								36
19+50	.4	.005								37
19+75	.5	.005								38
20+00	.4	.005								39
L36N 20+25E	.5	.005								40

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phone:253 - 3158

File No. 81-1333

Type of Samples Soils

GEOCHEMICAL ASSAY CERTIFICATE

Disposition _____

SAMPLE No.	Ag	Au																			
L40N 25+75E	.2	.005																			1
L40N 26+00E	.1	.005																			2
																					3
MS JS ST- 1	.3	.005																			4
2	.1	.005																			5
3	.3	.005																			6
4	.1	.005																			7
5	.2	.005																			8
6	.1	.005																			9
7	.2	.005																			10
8	.1	.005																			11
9	.1	.005																			12
10	.1	.005																			13
11	.1	.005																			14
12	.1	.005																			15
13	.1	.005																			16
14	.1	.005																			17
15	.1	.005																			18
16	.5	.005																			19
17	.1	.005																			20
18	.1	.005																			21
19	.1	.005																			22
20	.1	.005																			23
21	.1	.005																			24
22	.2	.005																			25
23	.1	.005																			26
24	.1	.005																			27
25	.6	.005																			28
26	.3	.005																			29
27	.2	.005																			30
28	.2	.005																			31
29	.2	.005																			32
30	.2	.750																			33
31	.2	.005																			34
32	.3	.005																			35
33	1.1	.005																			36
34	1.0	.005																			37
MS JS ST-35	1.2	.005																			38
																					39
																					40

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DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER

OKO.

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1333

Type of Samples Silts

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE No.		Ag	Au										
MS JS	ST-36	.7	.005										1
	37	1.0	.005										2
	38	.3	.005										3
	39	.3	.005										4
	40	.6	.005										5
	41	1.1	.010										6
	42	1.1	.015										7
	43	.8	.005										8
	44	.8	.005										9
	45	.3	.005										10
	46	.6	.005										11
MS JS	ST-47	.9	.005										12
													13
													14
													15
MS JS	ST-50	3.4	.040										16
	51	3.8	.025										17
	52	2.1	.025										18
	53	1.7	.015										19
	54	1.1	.005										20
	55	.6	.010										21
	56	1.0	.005										22
	57	.6	.005										23
	58	.2	.005										24
	59	.3	.005										25
	60	.2	.005										26
	61	.4	.005										27
	62	1.1	.005										28
	63	.7	.005										29
	64	.2	.005										30
	65	.4	.005										31
	66	.4	.005										32
	67	.4	.005										33
	68	.3	.005										34
	69	.5	.005										35
	70	.2	.005										36
	71	.3	.005										37
	72	.3	.005										38
	73	.3	.005										39
MS JS	ST-74	1.2	.005										40

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All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 6, 1981

DATE REPORTS MAILED Sept. 17, 1981

ASSAYER

OKO.

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,
150 - 1300, 8th S.W.
Calgary, Alberta,
T2R 1P2

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

File No. 81-1452

Type of Samples Soils

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

M Claims (M)

SAMPLE No.	Ag	Au										
26N 19 E	.1	.005										1
19+25	.1	.005										2
19+50	.1	.005										3
19+75	.1	.005										4
20	.1	.005										5
20+25	.2	.005										6
20+50	.1	.005										7
20+75	.1	.005										8
21	.3	.005										9
21+25	.8	.005										10
21+50	.2	.005										11
21+75	.5	.005										12
22	.2	.005										13
22+25	.2	.015										14
22+50	.9	.005										15
22+75	2.0	.005										16
23	.6	.005										17
23+25	.5	.005										18
23+50	.8	.395										19
23+75	.4	.005										20
24	3.4	.120										21
24+25	2.6	.160										22
24+50	.2	.005										23
24+75	.5	.005										24
25	.2	.005										25
25+25	.4	.025										26
25+50	.9	.005										27
25+75	.5	.005										28
26	3.0	.005										29
26+25	4.0	.005										30
26+50	1.1	.005										31
26+75	5.0	.005										32
27	.8	.005										33
27+25	2.2	.005										34
27+50	1.6	.005										35
27+75	1.7	.120										36
26N 28 E	2.0	.005										37
												38
												39
												40

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All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 24, 1981

DATE REPORTS MAILED Oct. 1, 1981

ASSAYER

Dean Toye

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,

ACME ANALYTICAL LABORATORIES LTD.

Assaying & Trace Analysis

852 E. Hastings St., Vancouver, B. C. V6A 1R6

phone: 253 - 3158

File No. 81-1452

Type of Samples _____

Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

M Claims (M)

SAMPLE No.		Ag	Au																				
26N	28+25E	.6	.005																		1		
	28+50	.6	.005																			2	
	28+75	.4	.005																			3	
26N	29 E	.9	.005																			4	
																						5	
																							6
																							7
																							8
																							9
																							10
																							11
																							12
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																							39
																							40

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All results are in PPM.

DIGESTION: _____

DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 24, 1981

DATE REPORTS MAILED Oct. 1, 1981

ASSAYER *D. Toye*

DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER



To: Golden Rule Resources Ltd.,
150 - 1300, 8th S.W.
Calgary, Alberta,
T2R 1P2

ASSAYING & TRACE ANALYSIS
852 E. Hastings St., Vancouver, B. C. V6A 1R6
phone: 253 - 3158

c.c. Taiga Consultants Ltd.,

File No. 81-1333 A
Type of Samples _____
Disposition _____

GEOCHEMICAL ASSAY CERTIFICATE

Mets Claims (MS)

SAMPLE No.	Ag	Au								
MS 1S 11 E	4.2	.120								1
11+25	1.3	.015								2
11+50	6.9	.060								3
11+75	5.2	.050								4
12	3.0	.205								5
12+25	7.5	.025								6
12+50	2.9	.020								7
12+75	1.5	.005								8
13	.6	.430								9
14+25	2.6	1.960								10
14+50	2.1	.305								11
14+75	1.2	.045								12
15	.4	.005								13
15+25	.5	.005								14
15+50	.6	.025								15
15+75	1.1	.135								16
16	1.2	.075								17
16+25	1.0	.095								18
16+50	.6	.175								19
16+75	.3	.170								20
17	1.0	.075								21
17+25	.9	.005								22
17+50	.1	.005								23
17+75	.1	.005								24
MS 1S 18 E	.1	.005								25
										26
MS 2S 11 E	3.3	.045								27
11+25	1.0	.035								28
11+50	2.0	.025								29
11+75	3.1	.025								30
12	5.6	.025								31
12+25	2.6	.075								32
12+50	2.5	.415								33
12+75	7.8	.235								34
13	1.9	.045								35
13+25	1.3	.075								36
13+50	2.4	.005								37
MS 2S 13+75 E	.2	.005								38
										39
										40

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All results are in PPM.
DIGESTION: _____
DETERMINATION: _____

DATE SAMPLES RECEIVED Sept. 16, 1981
DATE REPORTS MAILED Sept. 24, 1981
ASSAYER Dean Toye
DEAN TOYE, B.Sc.
CHIEF CHEMIST
CERTIFIED B.C. ASSAYER

A P P E N D I X I I I

Geophysical Report

REPORT ON A
HELICOPTER VLF--E.M. AND MAGNETOMETER SURVEY
ON TEN PROJECTS IN THE
TOODOGGONE RIVER AREA
OMINECA MINING DIVISION
BRITISH COLUMBIA

FOR
GOLDEN RULE RESOURCES LTD.
Suite 115 - 1300 - 8th Street S.W.
Calgary, Alberta
T2R 1B2

SURVEY DATES: April 1 to May 1, 1981

July 3, 1981
Vancouver, B.C.

Apex Airborne Surveys Ltd.
Ronald F. Sheldrake, B.Sc.

TABLE OF CONTENTS

	Page No.
1. SUMMARY	1 - 1
2. INTRODUCTION	2 - 1
GEOLOGY	2 - 4
CLAIMS	2 - 5
LOCATION AND ACCESS	2 - 6
3. DATA PRESENTATION	3 - 1
4. DISCUSSION OF RESULTS	4 - 1
5. CONCLUSIONS AND RECOMMENDATIONS	5 - 1

BIBLIOGRAPHY

FIGURE 1 - SURVEY AND CLAIM LOCATION MAP

FIGURE 2 - DETAIL ANOMALY LN-5 SAUNDERS PROJECT

PLATE 1 - MAGNETIC CONTOUR MAP - METS GROUP

PLATE 2 - MAGNETIC CONTOUR MAP - BELLE GROUP

PLATE 3 - MAGNETIC CONTOUR MAP - SAUNDERS GROUP

PLATE 4 - MAGNETIC CONTOUR MAP - JOCK GROUP

PLATE 5 - MAGNETIC CONTOUR MAP - RICH GROUP

PLATE 6 - MAGNETIC CONTOUR MAP - MC GROUP

PLATE 7 - MAGNETIC CONTOUR MAP - JC GROUP

PLATE 8 - MAGNETIC CONTOUR MAP - NIKA GROUP

PLATE 9 - MAGNETIC CONTOUR MAP - INGE GROUP

PLATE 10 - MAGNETIC CONTOUR MAP - SUS GROUP

APPENDIX I - INSTRUMENTATION

APPENDIX II - IN-FLIGHT RECORD AND FLIGHT PATH RECOVERY

CERTIFICATION

1. SUMMARY

The geophysical data have provided a useful overview of magnetic character of the rocks underlying the claim groups. An electromagnetic target has been identified in the Saunders Claim Group that warrants investigation.

Recommendations for follow-up have been made.

2. INTRODUCTION

This report describes the results of 420 linear kilometres of combined VLF and Magnetic Helicopter Survey undertaken over 11 claim blocks in the TOODOGGONE RIVER AREA, B.C.

The claim blocks are located near or along regional strike to the Chappelle and Sawyer gold deposits within the Intermontane Belt. A description of the Chappelle deposit and environs is available in a publication by Mr. D.A. Barr of Dupont of Canada Exploration Ltd.*

The purpose of the helicopter magnetic and electromagnetic surveys was to provide targets for ground exploration and to assess in a general sense, if similar environments as those present at the Chappelle and Sawyer properties could be recognized.

The survey was flown using an Aerospatiale Gazelle Helicopter as a platform for the geophysical system.

* D.A. Barr, "Chappelle Gold Silver Deposit, British Columbia".
Geology and Exploration, pp. 66-79.

SURVEY & CLAIM LOCATION MAP



SCALE 1:500,000



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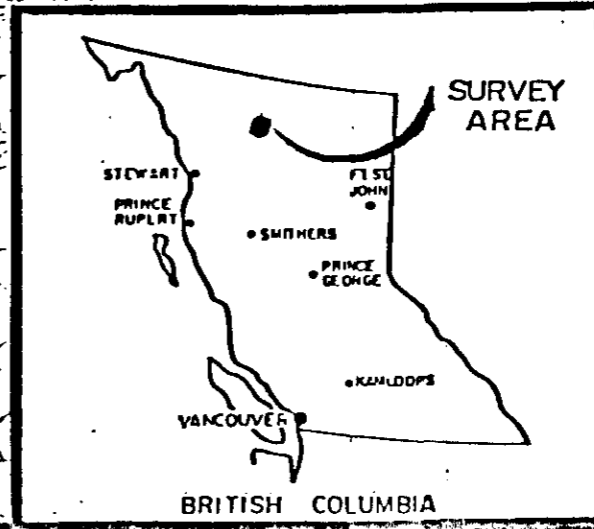
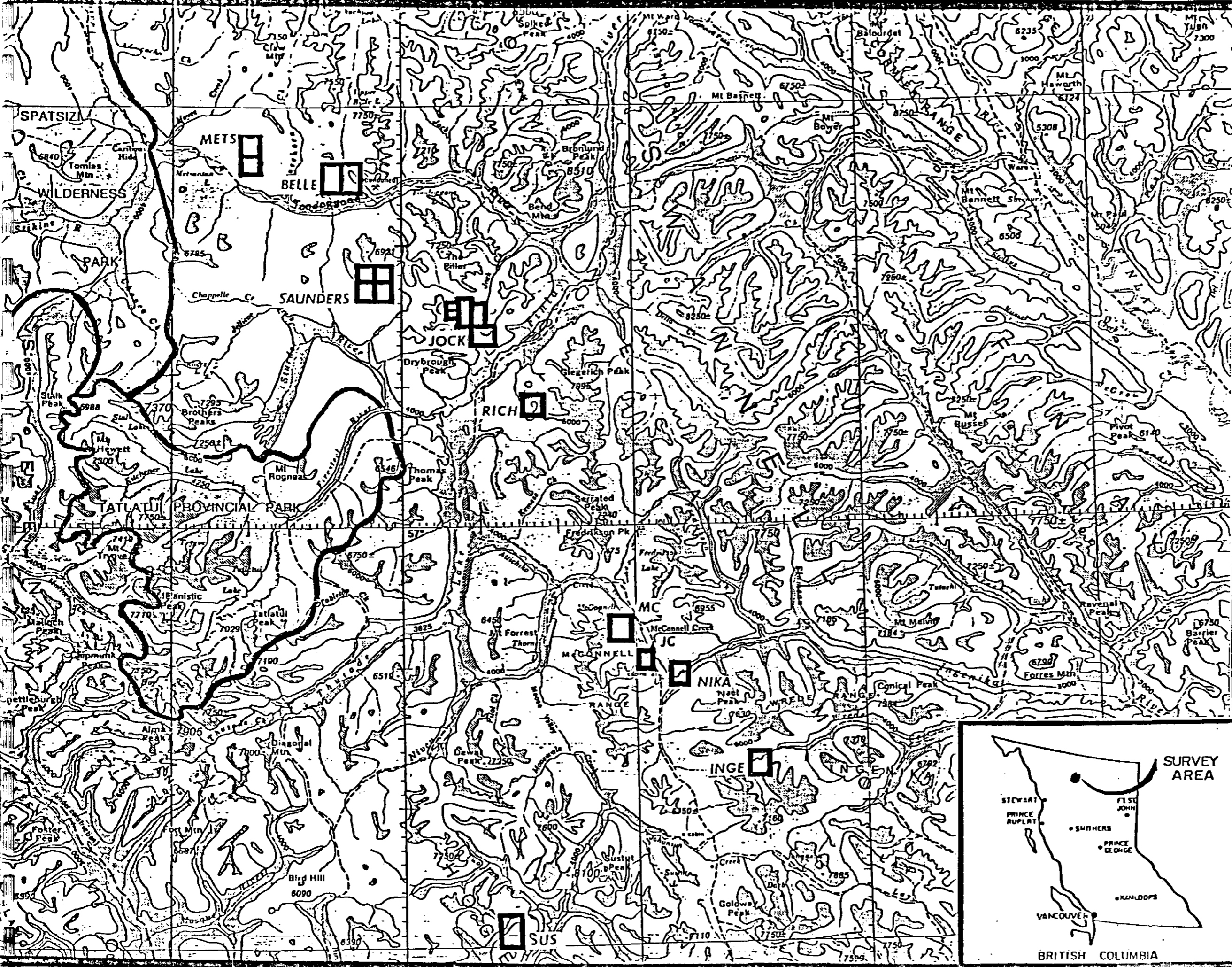
TOODOGGONE RIVER AREA PROJECT

OMINICA MINING DIVISION

figure 1

N.T.S. 94 SW

PRODUCED FROM NATIONAL N.T.S. SERIES



BRITISH COLUMBIA

The survey conditions were difficult for the most part because of inclement weather conditions and steep terrain.

The electromagnetometer used on this survey was a Herz TOTEM 1-A VLF device. It utilizes the primary fields emitted by the military communication transmitters. The E.M. fields from the stations (Cutler, Maine and Jim Creek, Washington) are essentially perpendicular to the direction to the station and horizontal.

The E.M. sensor is suspended five metres below the helicopter (to minimize helicopter interference) and comprises of three coils, whose axis are orthogonal. The electromagnetometer senses the change in total field and quadrature values. These are the two measurements recorded on the analogue chart and magnetic tape.

The VLF electromagnetometer, although described as a very low frequency radio signal, (15-25 khrz) is rather a high frequency signal for geophysical purposes. This means that the system senses rather large, low conductance targets that are within a few tens of metres from the surface.

The magnetometer used on this survey was a Geometrics G803 total field instrument which measures the field strength with a sensitivity of one gamma. The sensor is suspended below the electromagnetometer 15 metres.

Appendix I gives the details of the geophysical equipment used for this survey. Appendix II describes the in-flight record and flight path recovery process.

GEOLOGY

The geology of the Chappelle Deposit and environs is described by Mr. D.A. Barr of Dupont of Canada Exploration Limited.*

He reports that "The Chappelle property lies near the eastern margin of the Intermontane Belt. The (quartz) vein systems which contain the gold-silver mineralization occur within a small window of Takla Group volcanic rocks of Upper Triassic age, which are intruded by granitic stocks of the Omineca Intrusions and overlain unconformably by Jurassic and younger volcanic and sedimentary rocks.

Rocks in the property area have been subject to extensive normal block faulting from Jurassic to Tertiary time and by thrusting of the Asitka Group rocks over the Takla Group rocks during Middle Jurassic time".

No detailed geology of the ten survey blocks described in this report is available to the writer at this time.

* Ibid.

CLAIMS

<u>CLAIM NAME</u>		<u>RECORD NO.</u>	<u>NO. OF UNITS</u>	<u>DATE OF RECORDING</u>
METS	1	1253	20	April 3, 1980
	2	1254	20	April 3, 1980
BELLE	1	2680	18	April 3, 1980
	2	2681	18	April 3, 1980
SAUNDERS	1	2682	12	April 3, 1980
	2	2683	12	April 3, 1980
	3	2684	20	April 3, 1980
	4	2685	20	April 3, 1980
JOCK	1	2699	4	April 8, 1980
	2	2700	18	April 8, 1980
	3	2701	15	April 8, 1980
	4	2702	20	April 8, 1980
	5	2703	4	April 8, 1980
RICH	1	2709	16	April 8, 1980
MC	1	2688	20	April 3, 1980
JC	1	2697	12	April 8, 1980
NIKA	1	2698	16	April 8, 1980
INGE	1	2708	16	April 8, 1980
SUS	1	2704	4	April 8, 1980
	2	2705	16	April 8, 1980
	3	2706	3	April 8, 1980
	4	2707	12	April 8, 1980

LOCATION AND ACCESS

The claim blocks are all located in the Omineca Mountain Range. The easiest access to the properties is by helicopter from either McKenzie or Smithers, B.C.

The location to the centre of each claim group is as follows:

<u>CLAIM GROUP</u>	<u>LATITUDE</u>	<u>LONGITUDE</u>	<u>N.T.S.</u>
METS	59° 24'N	127° 17'W	94 S.W.
BELLE	57° 24'N	127° 10'W	94 S.W.
SAUNDERS	57° 18'N	127° 02'W	
JOCK	57° 15'N	126° 52'W	94 S.W.
RICH	57° 15'N	126° 40'W	94 S.W.
MC	56° 52'N	126° 30'W	94 S.W.
JC	56° 50'N	126° 28'W	94 S.W.
NIKA	56° 49'N	126° 22'W	94 S.W.
INGE	56° 37'N	126° 13'W	94 S.W.
SUS	56° 30'N	126° 46'W	94 S.W.

3. DATA PRESENTATION

The data have been presented as plan maps of aeromagnetic contours at a scale of 1:10,000. The location of VLF-E.M. anomalies, interpreted lineaments and photo lineaments have been plotted on these plan maps. The maps display sufficient drainage to key them to the photo mosaics that were supplied to fly the survey.

4. DISCUSSION OF RESULTS

Twelve test lines of survey were flown over the Chappelle and Sawyer Gold properties in order to identify any characteristic geophysical responses that could be recognizable on any of the ten present survey areas.

For the most part no specific feature is correlatable with surety, however, it is apparent from the records that the magnetic environment of the ten present survey areas are similar to that of the Chappelle and Sawyer areas.

No VLF-E.M. responses were recorded on the Chappelle and Sawyer test lines.

The Golden Rule survey blocks are small in areal extent for an airborne reconnaissance survey and therefore limit the effectiveness of their interpretation, however, in general, many of the specific features reported by Mr. Barr* may be interpreted from the data, namely fracture zones, contact areas and possibly block faulting.

* Ibid.

Any attempt to identify quartz veins from the aeromagnetics, however, is probably not justifiable for the following reasons:

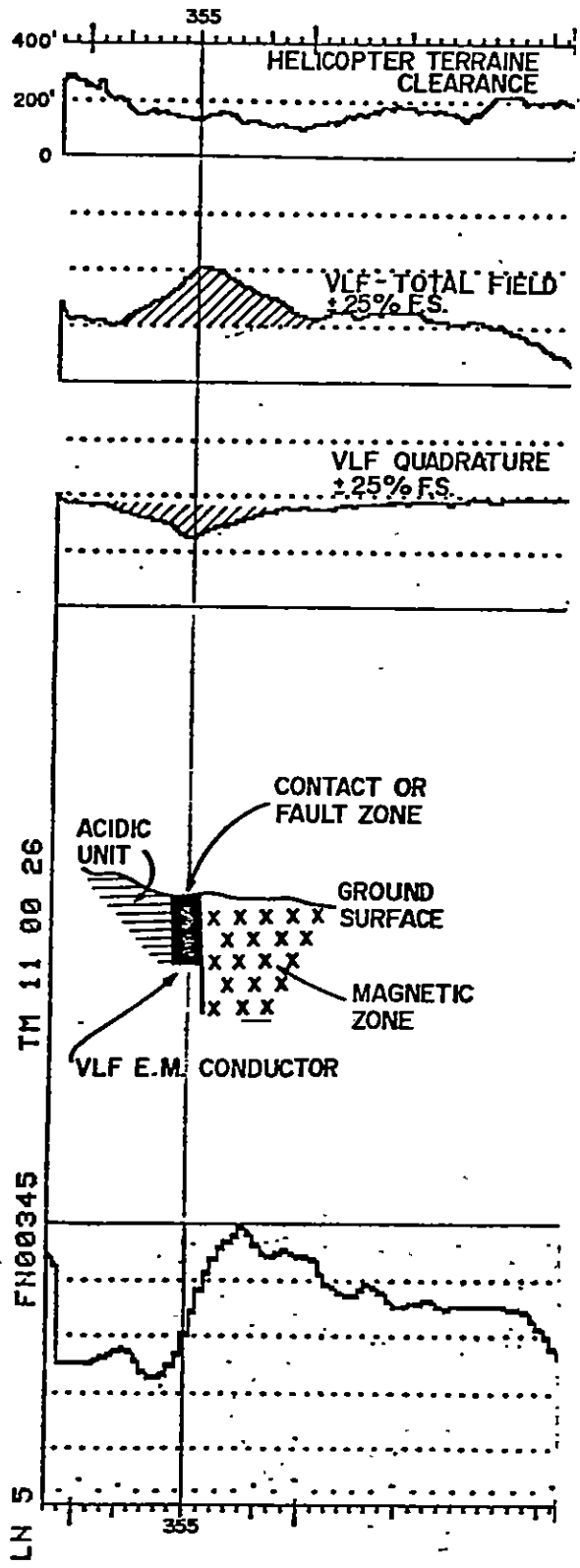
1. Ground magnetic surveys over the Chappelle have not been reliable in extending quartz veins*.
2. The magnetic character of the survey areas is very complex.
3. The quartz veins are probably too small to be identified from an airborne survey.

A brief interpretation has been made of the magnetic contour map for each claim block. The geophysical lineaments that were interpreted may be either contact or fault lineaments. Predominant photo-lineaments have also been plotted where they are informative - very often because of their contradiction to the geophysical map rather than their coincidence.

It should be noted that the contouring process tends to filter the data and that the in-flight recording indicates greater detail than the contour maps. As ground evaluation proceeds detailed study of the smaller (and numerous) responses on the recording may be useful.

* Ibid. Page 77 (Geophysical Investigations).

The VLF-E.M. technique over some of the survey areas (and the test lines) has not been successful as a survey tool. A combination of steep terrain and inclement weather conditions made it difficult to maintain a constant sensor orientation in the fixed VLF-E.M. transmitted field. However, useable VLF-E.M. recordings were collected over the Belle, Mets and Saunders Projects, and one VLF anomaly on LN5 on the Saunders project warrants immediate ground investigation. See Figure 2 for a detail of that record. (A schematic diagram has been provided that is meant to indicate the relative location and attitudes of the targets and will not reflect the true complexity of the geological situation.)



NOTES

- 1 Coincident With Inferred Magnetic Contact
- 2 Possibly Extends to LN 6 and LN 7

FIGURE 2

DETAIL ANOMALY - SAUNDERS CLAIMS
LINE 5 NORTH

CONCLUSIONS AND RECOMMENDATIONS

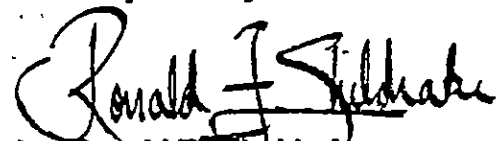
The geophysical survey has provided useful information that will serve to guide the upcoming exploration program.

Further, one VLF-E.M. target appears quite substantial and warrants investigation.

It is recommended that each of the areas be mapped geologically and stream samples taken wherever possible.

For the anomalous response on LN5 in the Saunders Area several traverses of ground VLF-E.M. ought to be undertaken to assess its validity and conductive response.

Respectfully Submitted


Ronald F. Sheldrake
Apex Airborne Surveys Ltd.

BIBLIOGRAPHY

D.A. Barr

- "Chappelle Gold Silver Deposit,
British Columbia
GEOLOGY AND EXPLORATION
CIM Bulletin, February 1978

APPENDIX I

APPENDIX I

INSTRUMENTATION

VLF - Electromagnetic Instrument

Type: Helicopter mounted total field - quadrature instrument manufactured by Herz Industries Ltd., Toronto, Ontario.

Frequencies: Cutler, Maine 17.8 kHz. (NAA)
Jim Creek, Washington, 18.6 kHz (NLK).

Magnetometer

Type: Proton precession model G803 manufactured by Geometrics Corporation, Toronto.

Cycling Time: 1.0 second.

Sending Head Design: 5 inch diameter Toroid.

Ancillary Equipment:

UDAS Digital Acquisition System with recorder.

Geocam 35 mm Flight Path Camera
Bonzer Radio Altimeter

Geometrics G806 Magnetic Base Station and recorder.

APPENDIX II

APPENDIX II

THE "ANALOGUE" CHART AND FLIGHT PATH RECOVERY

The flight tape is a roll of chart paper which moves through the digital printer at a speed of 5.48 cm per minute.

The digital printer chart facilitates the use of a full alpha-numeric system. All "header" sensitivity and fiducial information is printed automatically.

The chart is 520 dots wide as follows:

DOTS:

- 0 - 100 magnetometer coarse - 2000 gammas full scale.
- 100 - 320 magnetometer fine - 440 gammas full scale.
- 320 - 400 total field 25% full scale.
- 400 - 480 quadrature 25% full scale.
- ~~480 - 520 altimeter 0-400'~~

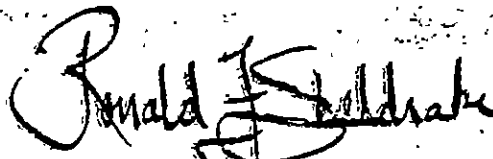
The helicopter flight path is recovered from 35 mm film, which is exposed at 2.0 second intervals during the flight traverses. After processing and anotating, recognizable fiducials are pin-pointed on the photomosaic map.

CERTIFICATION

I, RONALD F. SHELDRAKE, of the City of Vancouver, Province of British Columbia, hereby certify as follows:

1. I am President of Apex Airborne Surveys Ltd. a company incorporated under the laws of the Province of British Columbia.
2. The Vancouver Office of Apex Airborne Surveys Ltd. is located at Suite 512-625 Howe Street, Vancouver, British Columbia.
3. I received my B.Sc., in Geophysics from the University of British Columbia in May 1974.
4. I have practised my profession since that date.
5. I did not examine the claims area, but I am not aware of any claim conflict and believe that the data presented herein is reliable.
6. I have no interest, direct or indirect, in GOLDEN RULE RESOURCES LTD. or its affiliates, nor do I expect to receive any.
7. I consent to the uses of this report in or in connection with a Prospectus or in a Statement of Material Facts.

Ronald F. Sheldrake



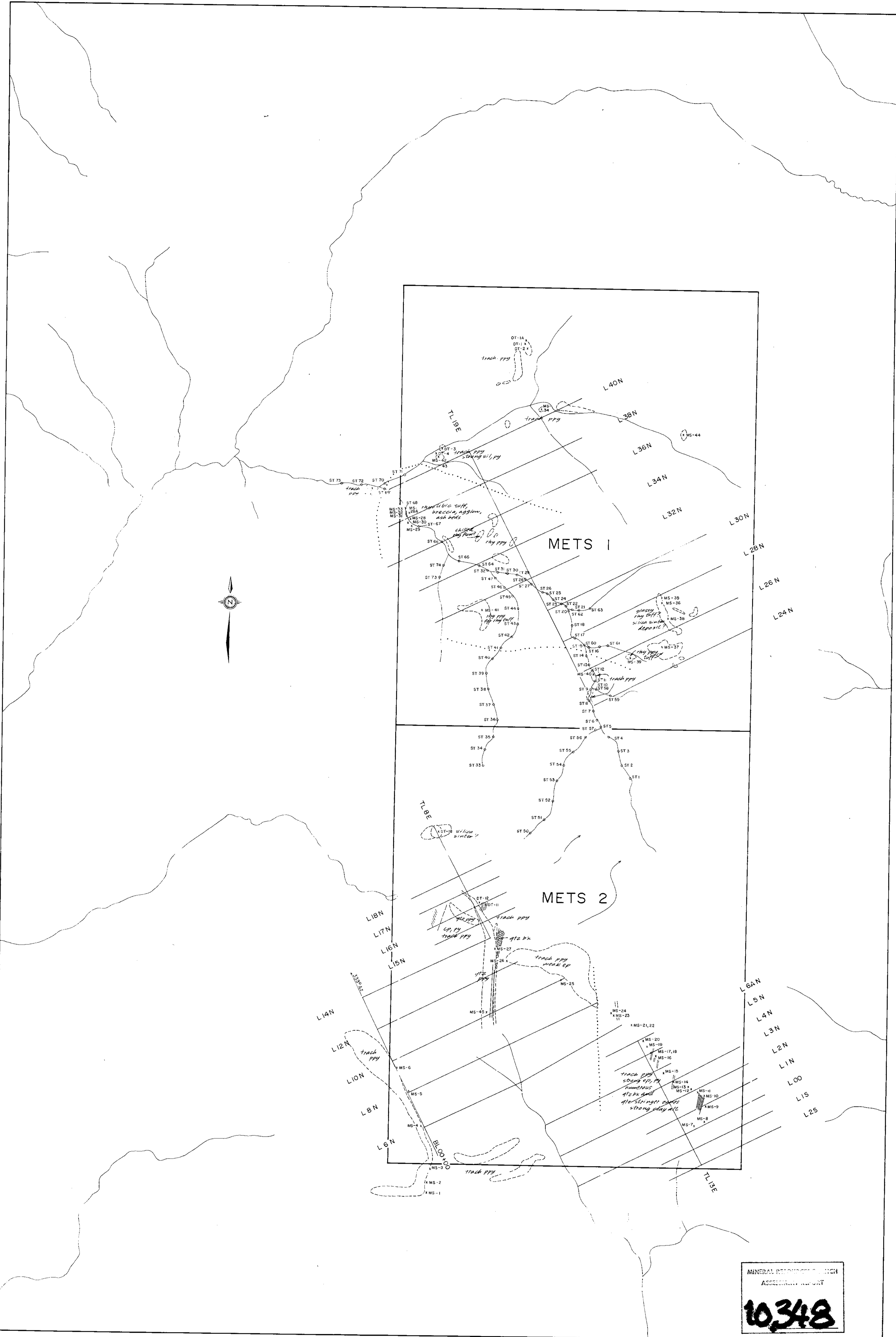
Apex Airborne Surveys Ltd.

July 3, 1981

July 3, 1981

STATEMENT OF COSTS

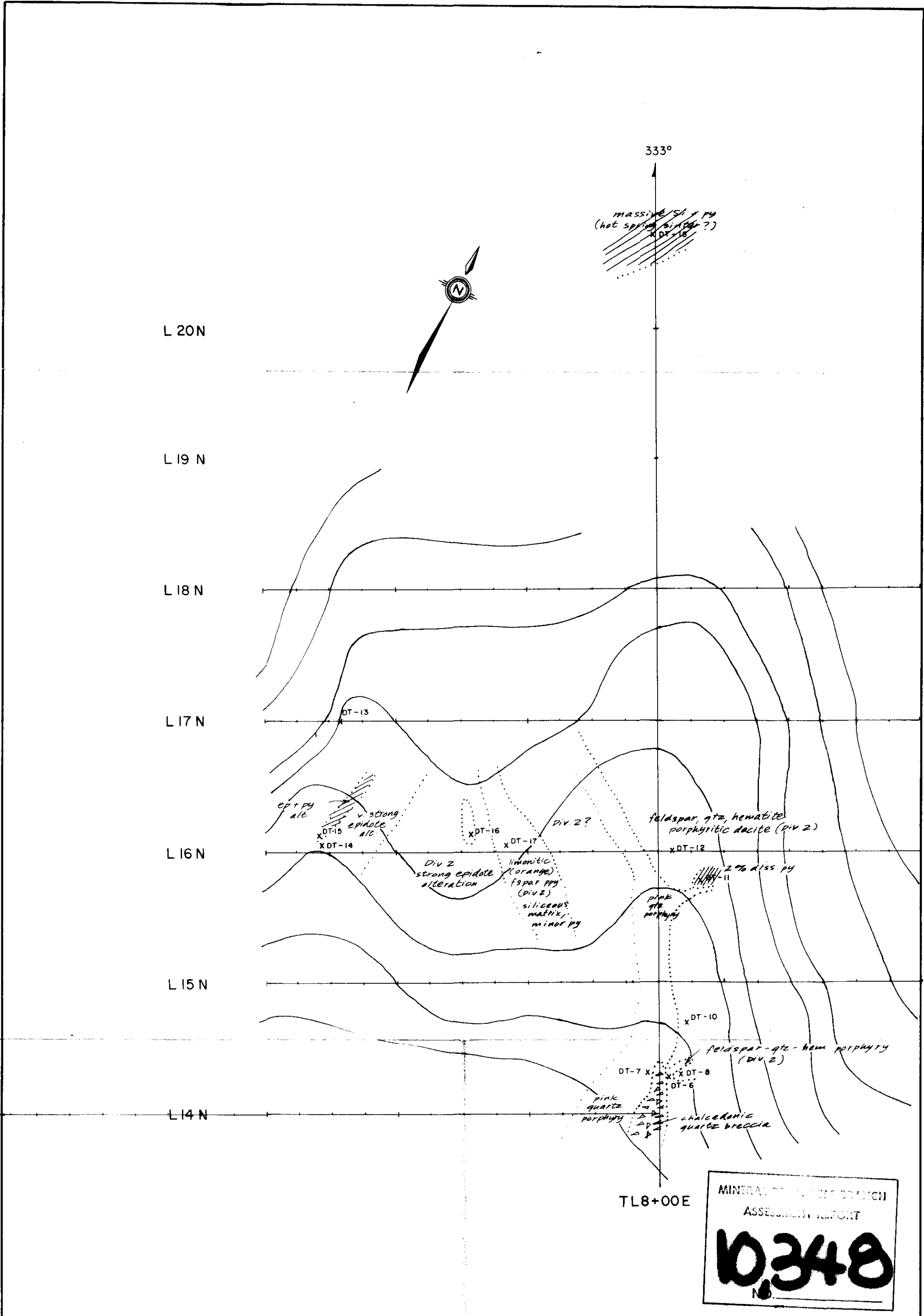
Type of Survey: Combined VLF and Magnetic Helicopter Survey
Date(s) of Fieldwork: April 1 to May 1, 1981
Survey, Kilometres: 420 kilometres
Cost per linear
Kilometre: \$84.56
Additional Charges:
Total cost of Survey: $420 \text{ km} \times \$84.56 = \$35,514.55$



MINERAL RESOURCES LTD.
ASSESSMENT REPORT
10348

- ▨ quartz breccia, related qtz stringer stockworks
- x MS-24 rock sample location
- o ST-33 stream site
- (---) outcrop
- contact; defined, inferred, assumed
- trach ppy trachyte porphyry
- rhy ppy rhyolite porphyry
- qtz ppy quartz porphyry
- ep epidole
- py pyrite
- sil silica, silicified
- bx breccia

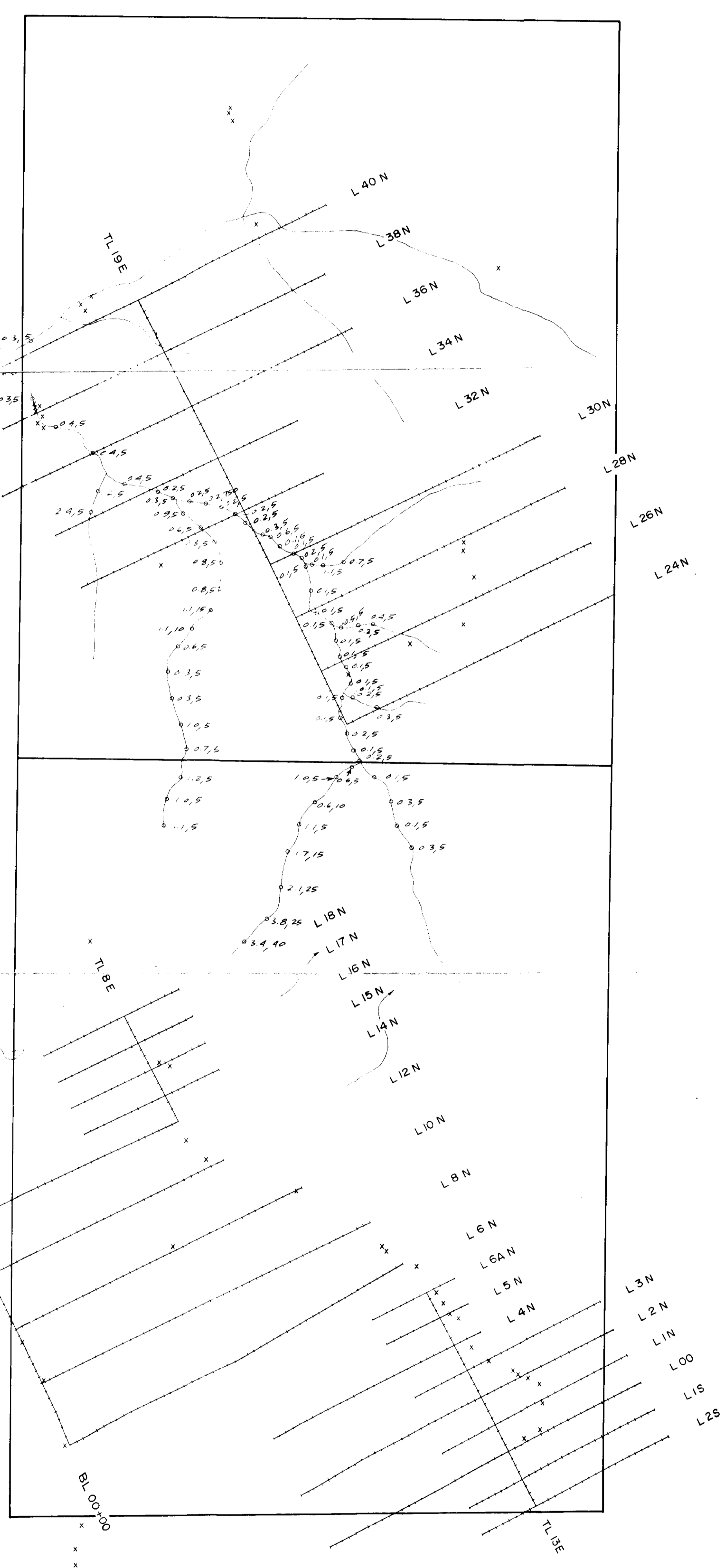
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP I- GEOLOGY	METS CLAIMS
PROJECT GR-BC-7	
SCALE 1:10,000	0 100 200 300 400 500 METRES
TAIGA CONSULTANTS LTD.	



MINERAL SERVICES BRANCH
ASSESSMENT REPORT
10,348

- pyritized zone
- py pyrite
- ep epidote
- si silica, silicification
- Div 2 Division 2 - Teedoggone Formation
- breccia, quartz breccia, Si matrix

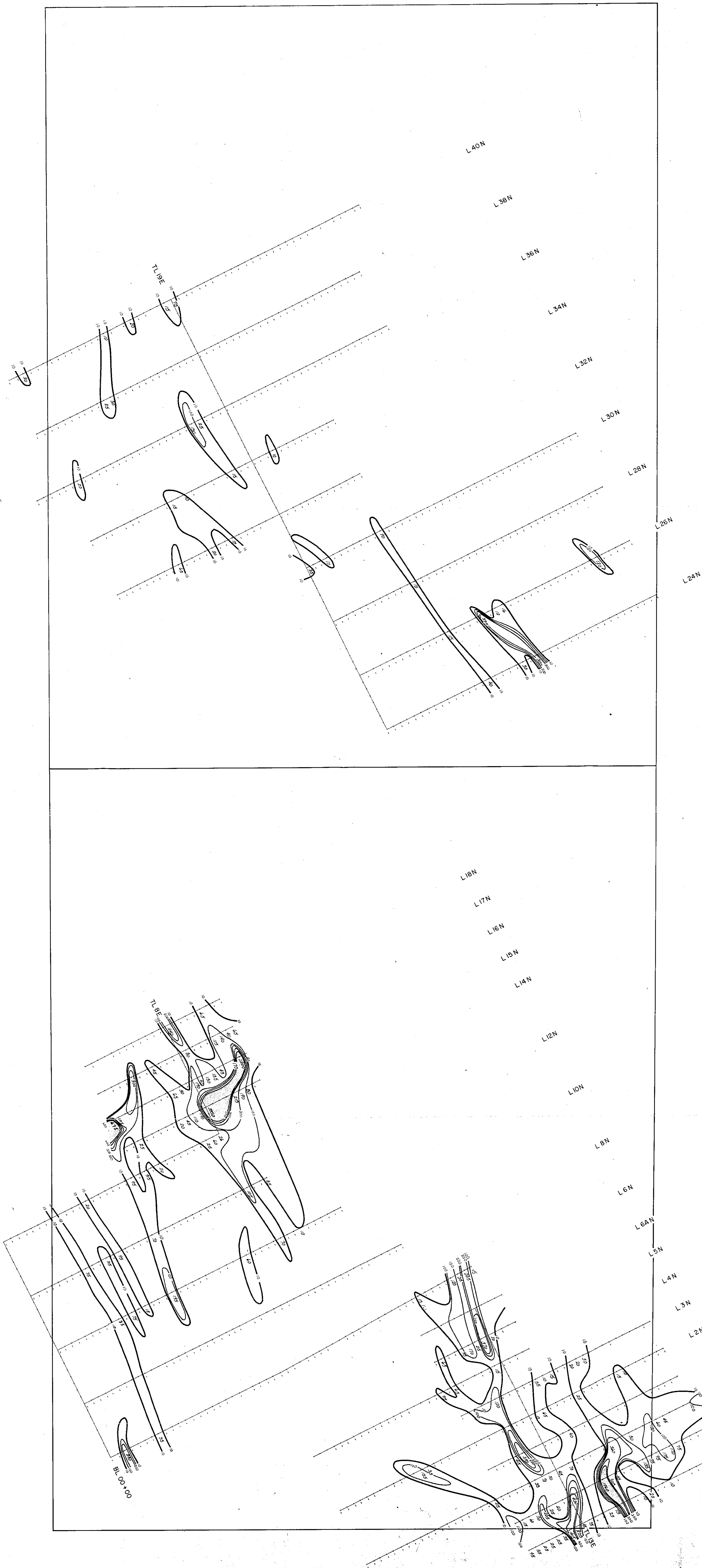
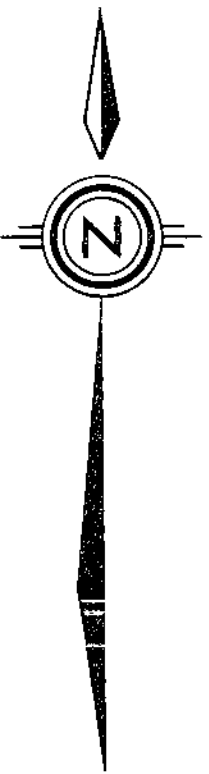
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 1B - DETAILED GEOLOGY	METS 2 CLAIM
PROJECT GR - BC - 7	B ZONE
SCALE 1:2500	
TAIGA CONSULTANTS LTD.	



MINERAL DEVELOPMENT
AGENCY REPORT
19348

○ stream silt; Ag (ppm), Au (ppb)

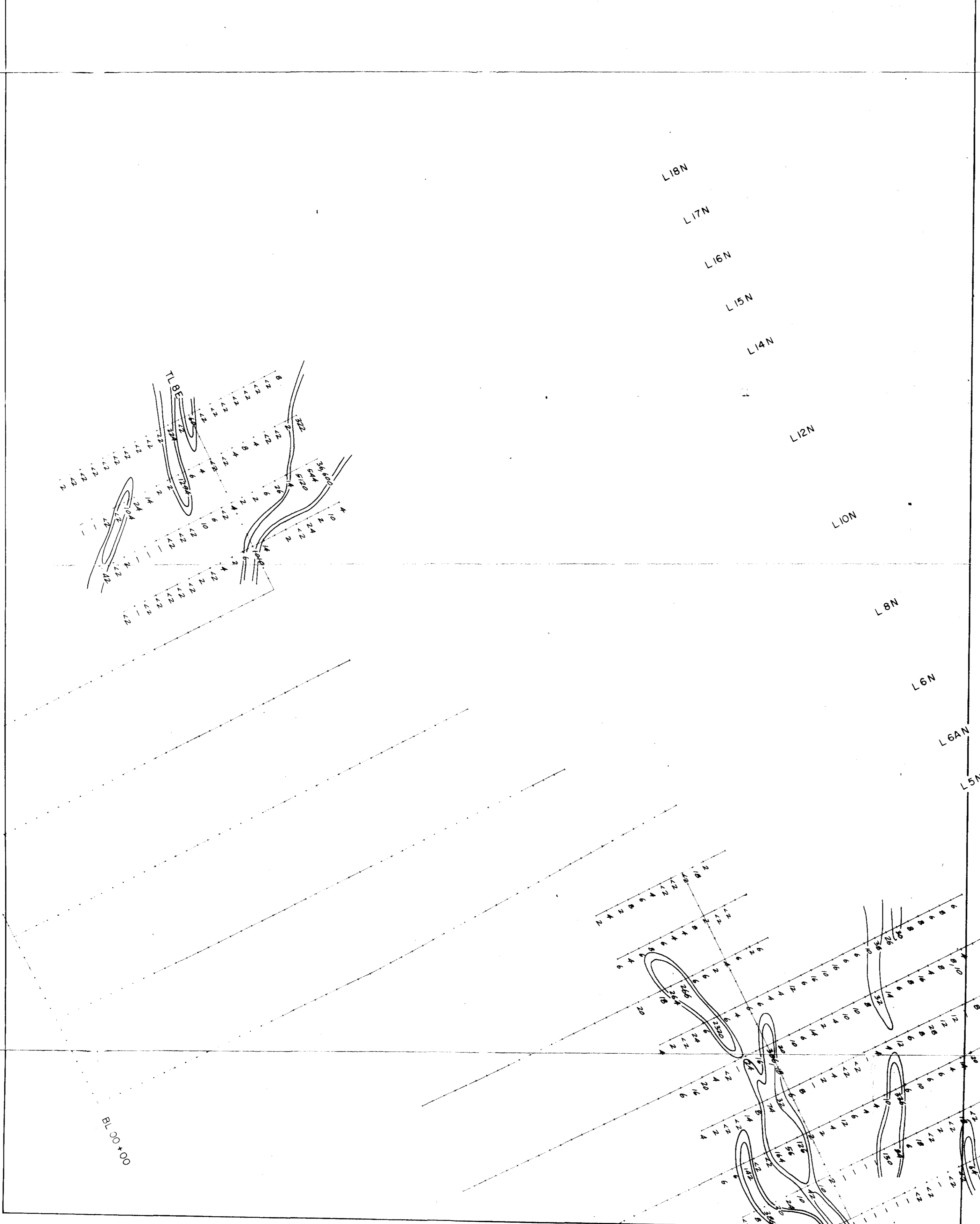
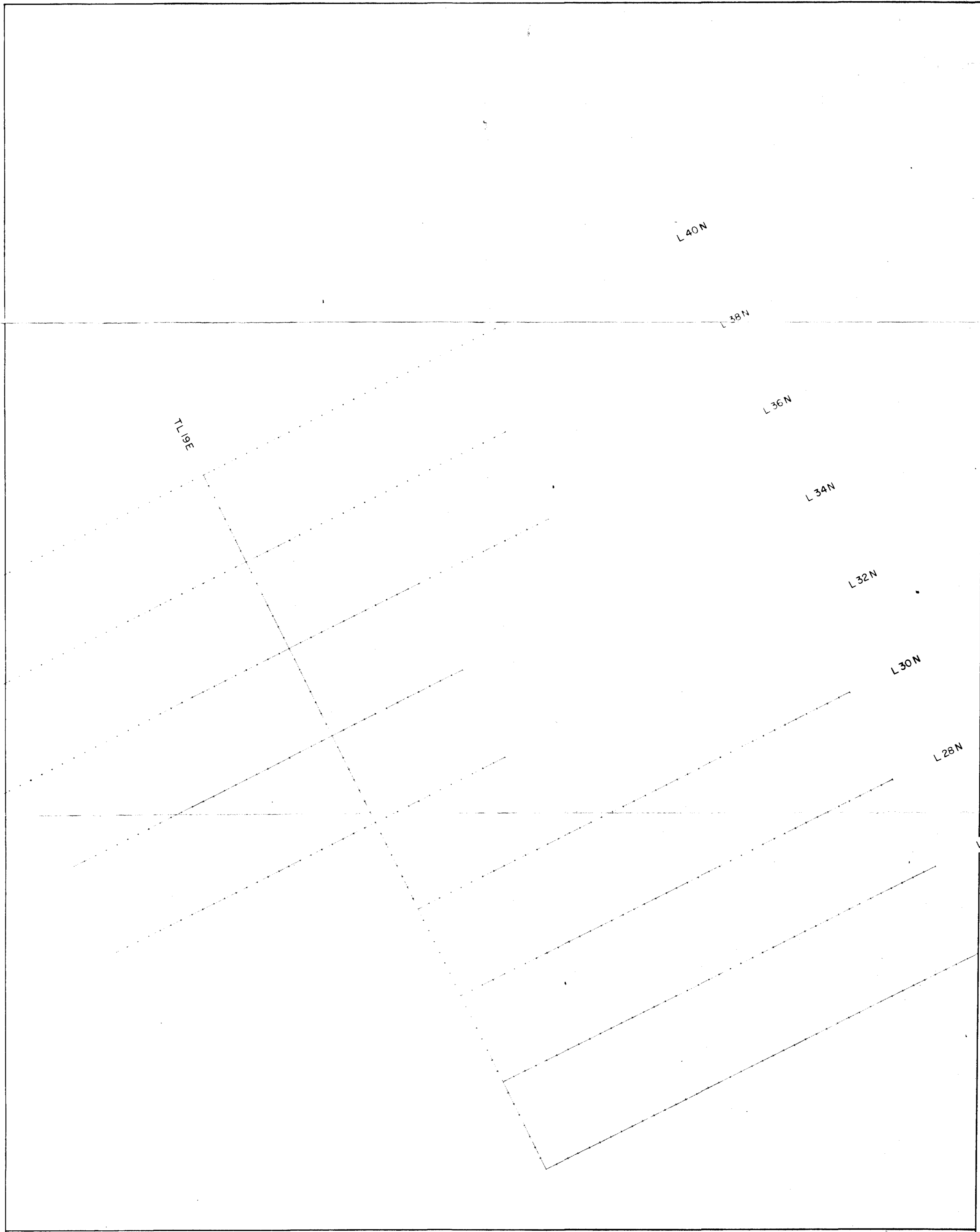
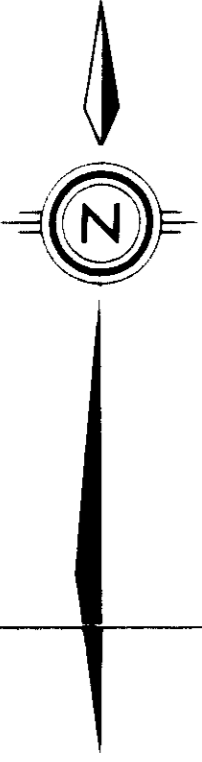
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 2 Ag and Au in Stream Silt	METS CLAIMS
PROJECT GR-BC-7	
SCALE 1:10,000	0 100 200 300 400 500 METRES
TAIGA CONSULTANTS LTD.	



MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,348
NO.

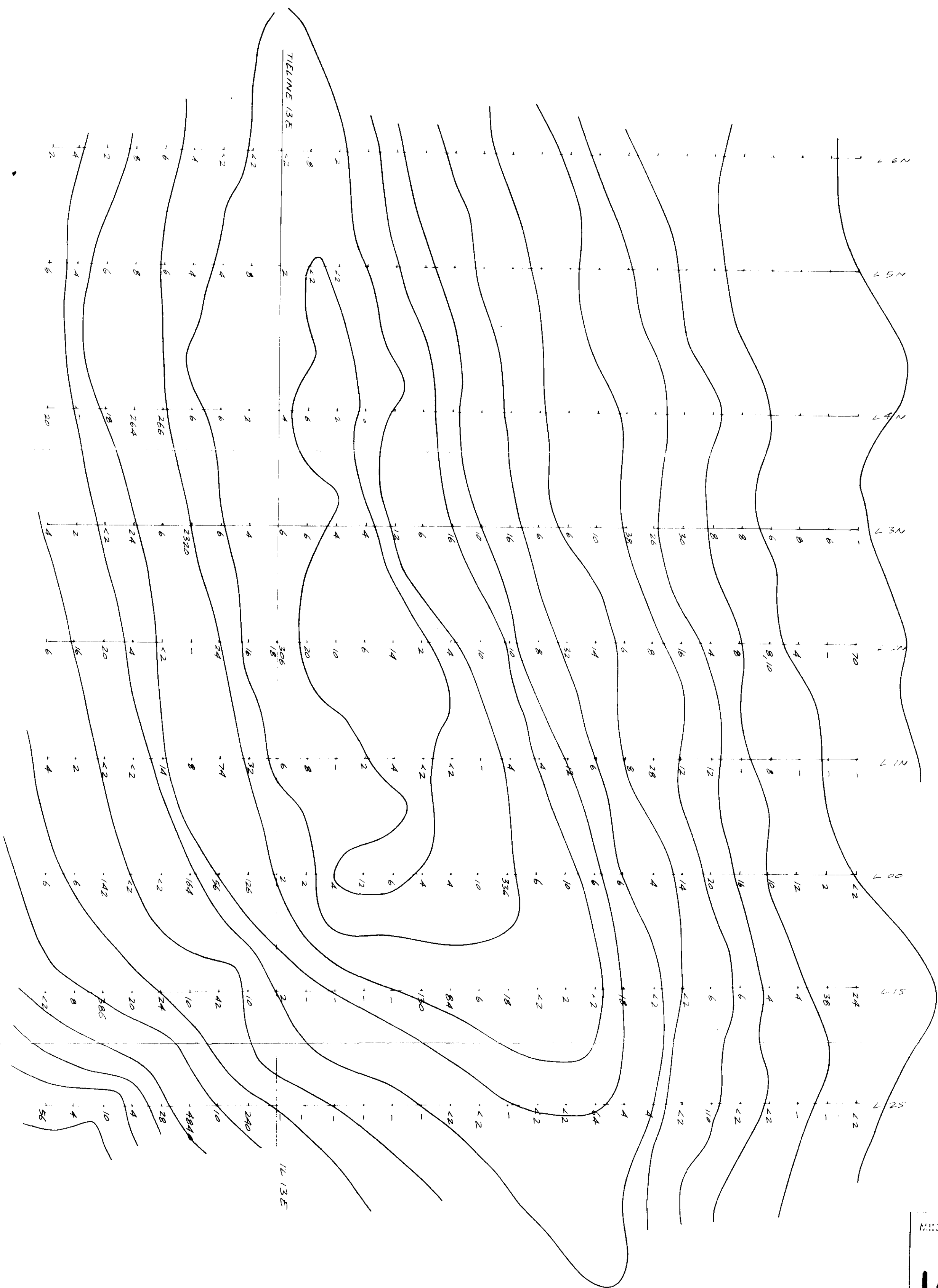
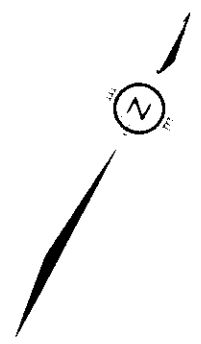
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 3 - Au in Soils	METS CLAIMS
PROJECT GR-BC-7	
SCALE 1:5,000	0 50 100 150 200 250 METRES
TAIGA CONSULTANTS LTD.	

— Background >10 ppb
- - - Contour Interval 100 ppb
... Contour Interval >500 ppb



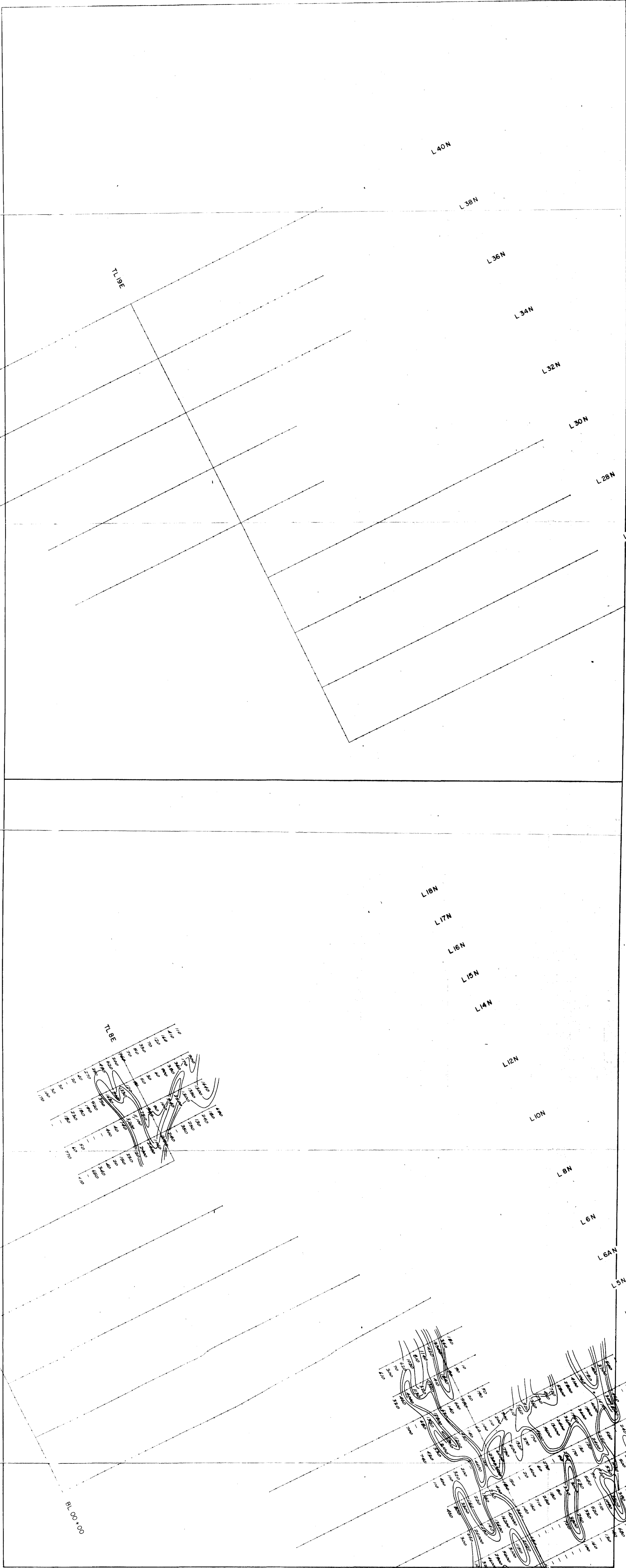
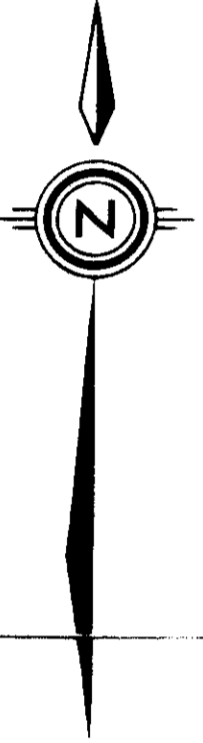
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GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 5 - Au in Rocks	METS CLAIMS
PROJECT GR-BC-7	
SCALE 1:5,000	
TAIGA CONSULTANTS LTD.	



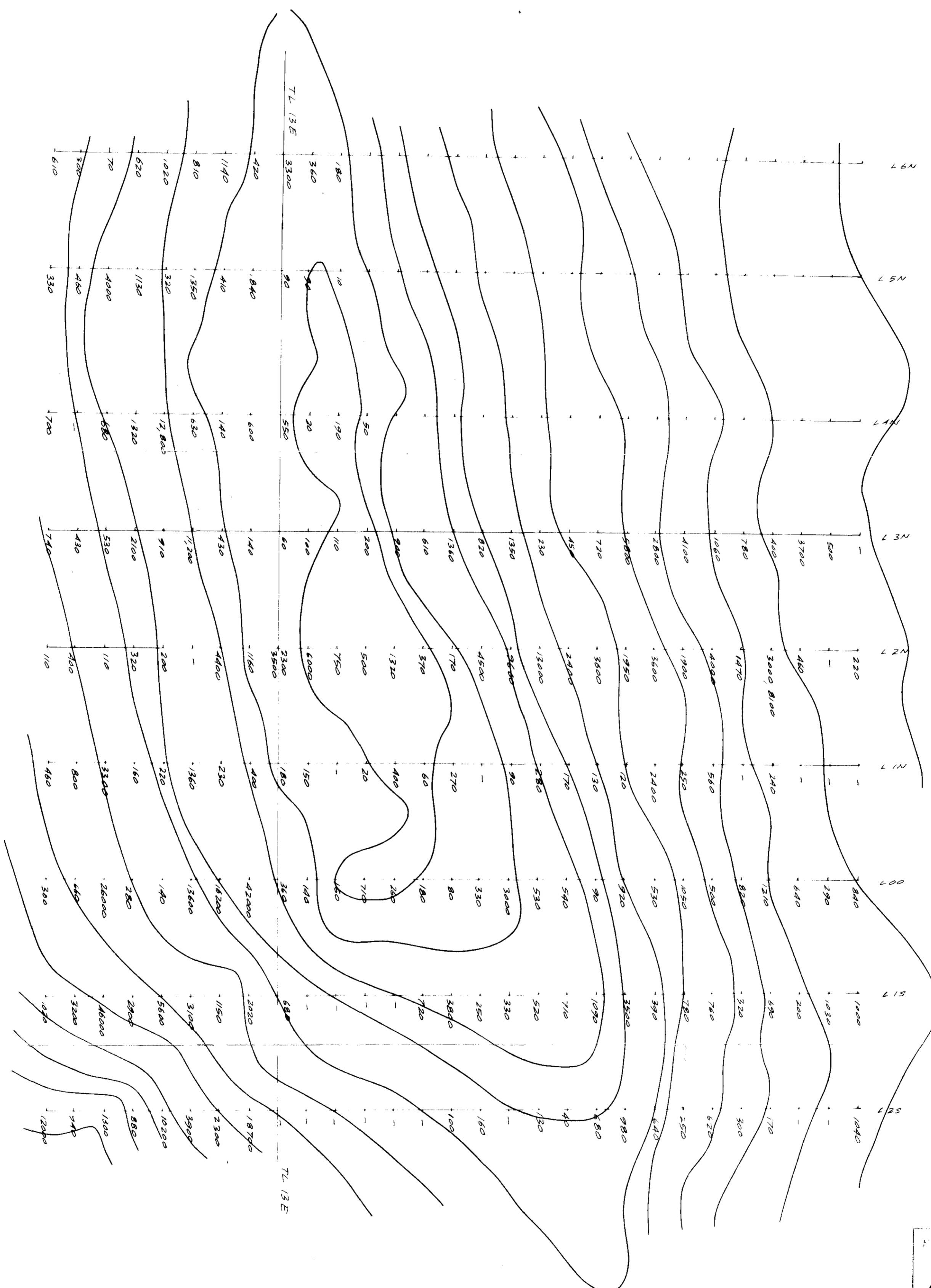
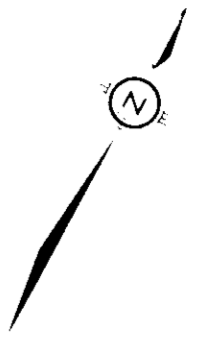
MINOR UNIT
10,348

GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 5A Au in Rocks (ppb)	METS 2 CLAM
PROJECT GP - BC - 7	C ZONE
SCALE 1:2500	0 25 50 75 100 125 METRES
TAIGA CONSULTANTS LTD.	



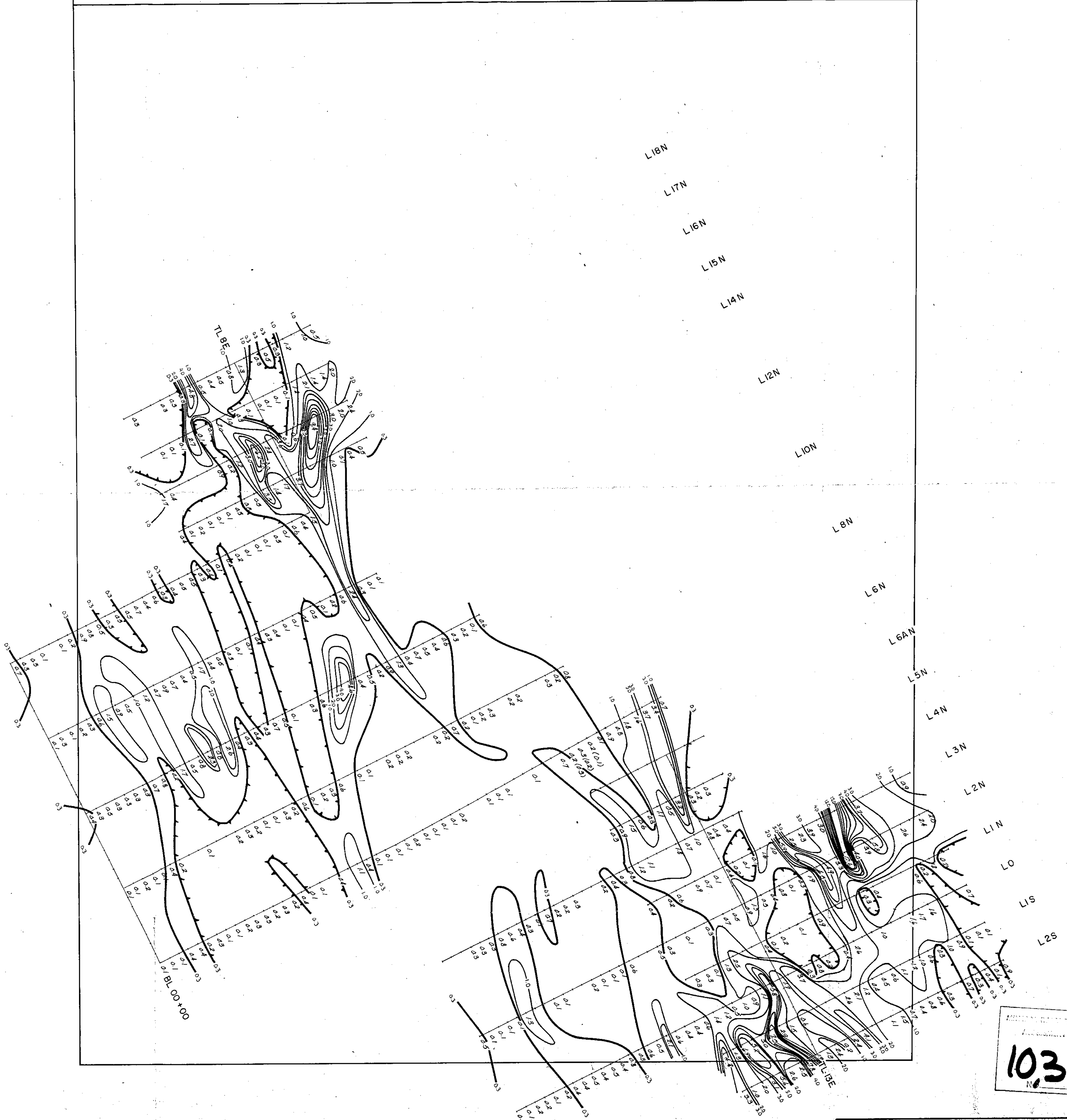
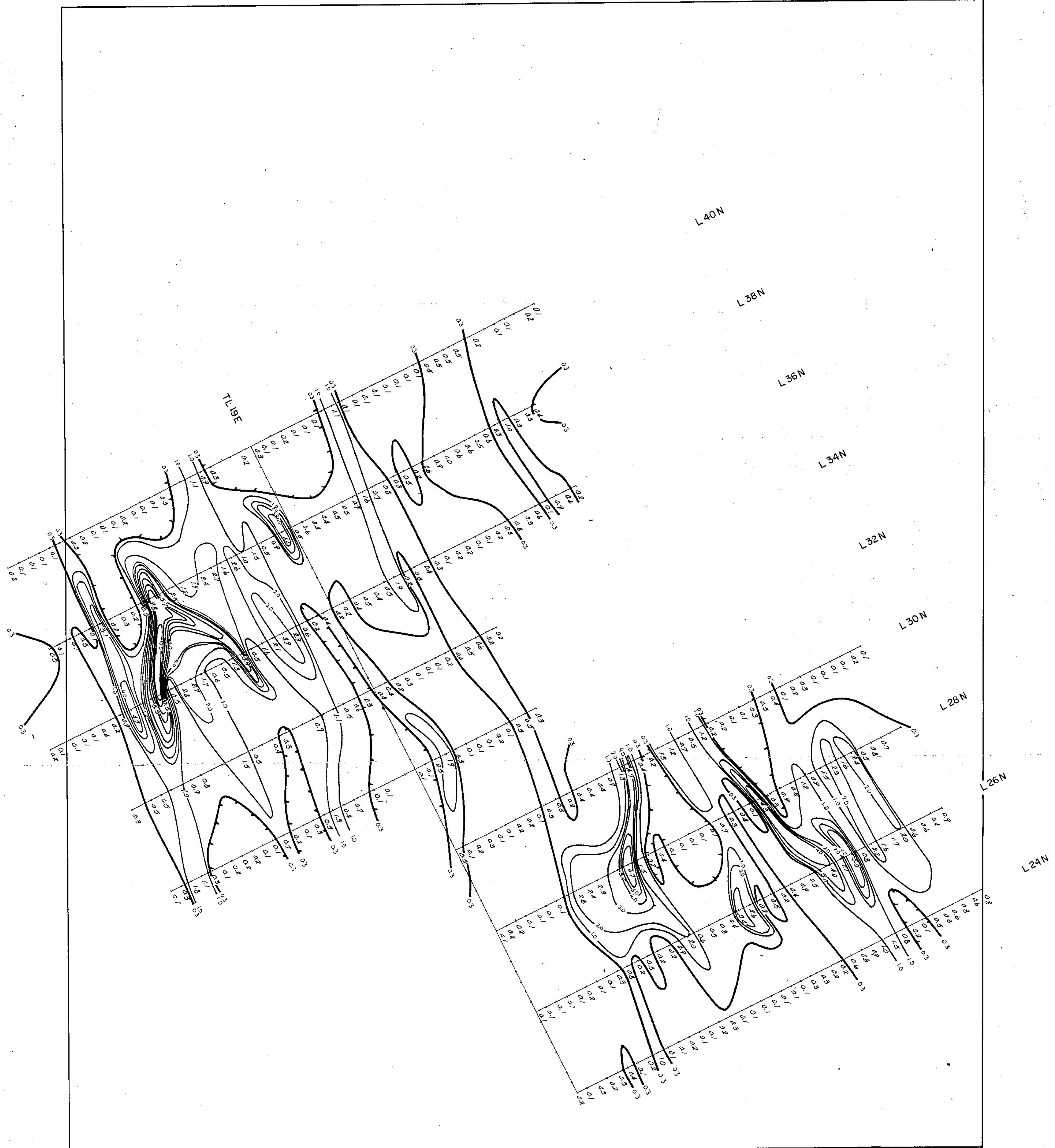
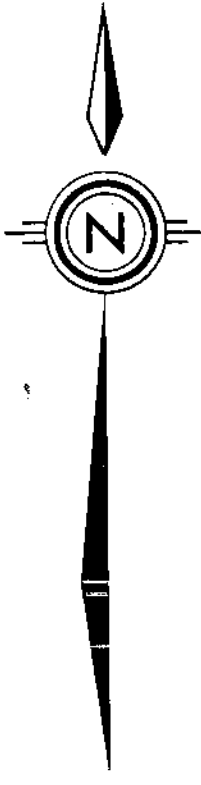
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GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 6 - Ag in Rocks	METS CLAIMS
PROJECT GR - BC - 7	
SCALE 1:5,000	
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10,348

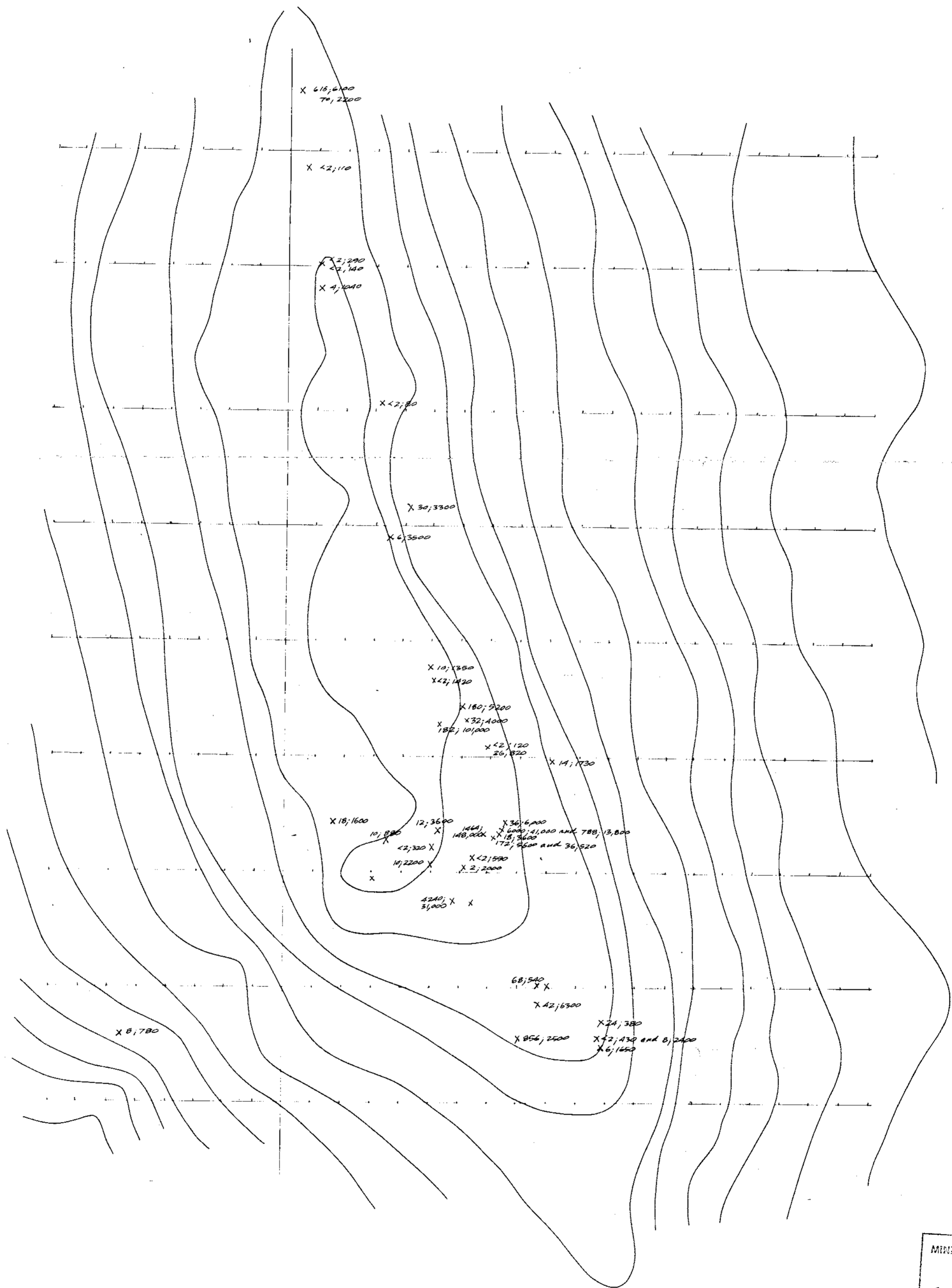
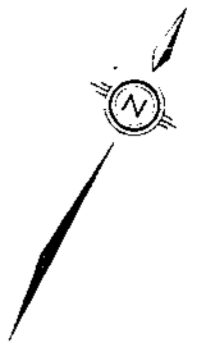
GOLDEN RULE RESOURCES	
CHAPPELLE PROJECT	
MAP 6A Ag in Rocks (ppb)	METS 2
PROJECT GF - EC	OTLINE
SCALE 1:2500	0 25 50 75 100 125 METRES
TAIGA CONSULTANTS LTD	



10348

— Background >0.3 ppm.
— Contour interval 1.0 ppm.

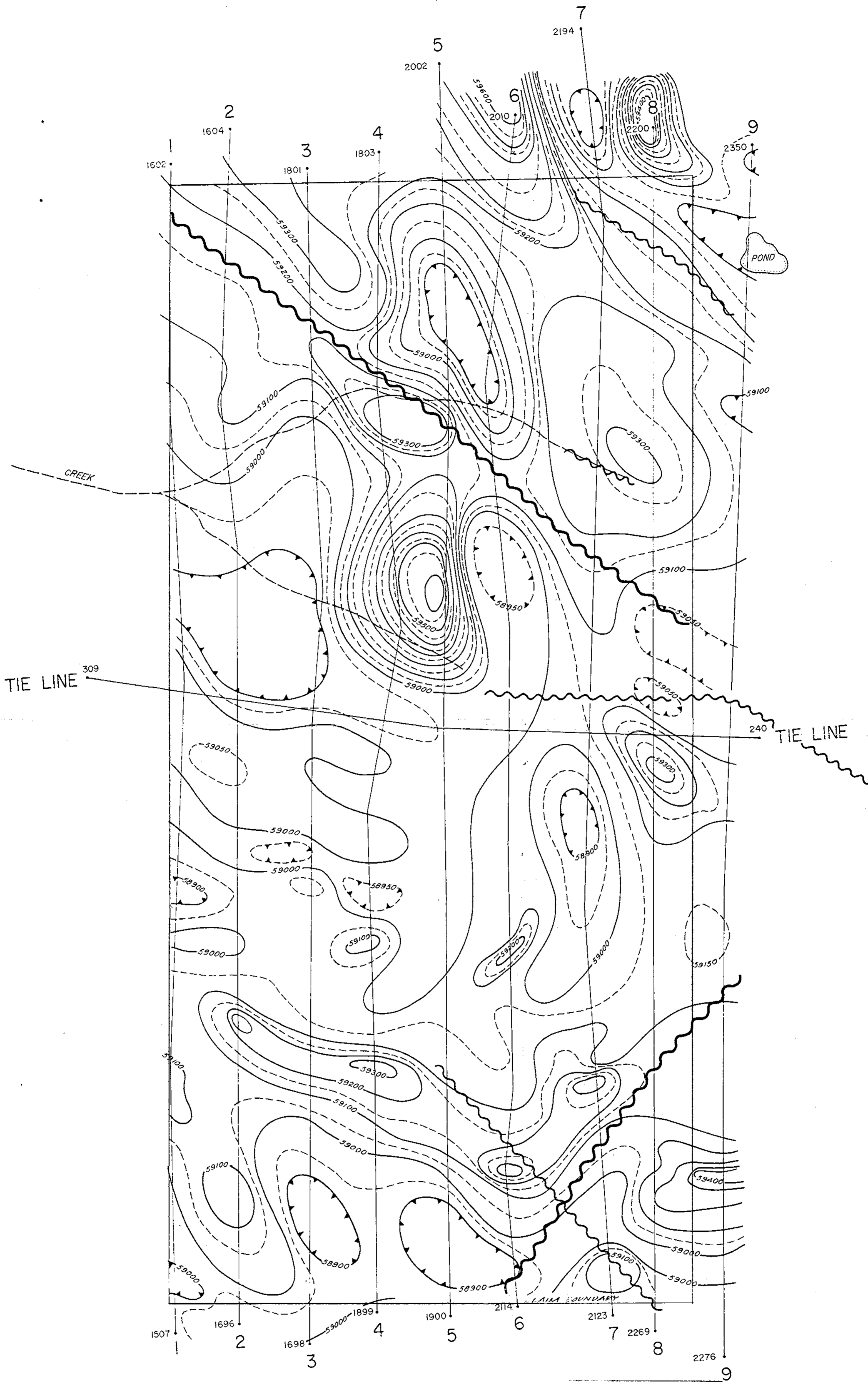
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 4 - Ag in Soils	METS CLAIMS
PROJECT GR-BC-7	
SCALE 1:5,000	0 50 100 200 300 METRES
TAIGA CONSULTANTS LTD.	



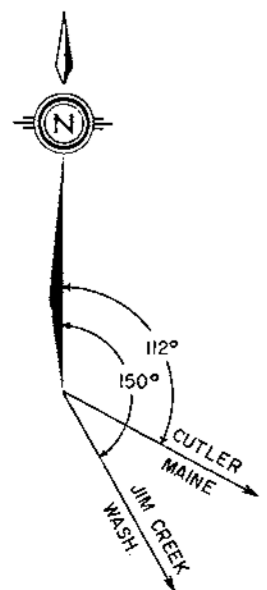
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ASSESSMENT REPORT
10,348
110

x Au (ppb); Ag (ppb)
(Analyses by fire assay/AA)

GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP 7 - Au and Ag in Rocks	METS 2 CLAIM
PROJECT GR - BC - 7	C ZONE
SCALE 1:2500	0 25 50 75 100 125 METRES
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MINERAL RESOURCES BRANCH
ASSESSMENT REPORT
10,348



- NOTES**
 MAGN. DEC. 30°E MAGN. INCL. 74°N
 SENSOR HEIGHT: MAG 20 M, VLF 30 M
 VERTICAL CONTROL: RADAR ALT.
 HORIZ. CONTROL: PHOTOMOSAIC
 CONTOUR INTERVAL: 50 GAMMAS
 VLF STATION: JIM CREEK, WASHINGTON
 VLF STATION (TIE LINE): CUTLER, MAINE
- LEGEND**
- GEOPHYSICAL LINEAMENT
 - PHOTO LINEAMENT
 - VLF RESPONSE
 - 100 GAMMA CONTOUR
 - 50 GAMMA CONTOUR
 - MAGNETIC DEPRESSION

GOLDEN RULE RESOURCES LTD.
METS CLAIMS
 TOODOGGONE RIVER AREA, B.C.

TOTAL FIELD MAGNETIC MAP

N.T.S. - 94 S.W. MINING DIVISION - OMINECA
 LATITUDE - 57° 27' N LONGITUDE - 127° 17' W
 SCALE - 1:10,000 PLATE - 1
 INSTRUMENTATION - MAGNETOMETER - G803
 ELECTROMAGNETOMETER - TOTEM IA - VLF

BY Ronald F. SheCrake DATE June 2, 1981

APEX AIRBORNE SURVEYS LTD.

L20N

L19N

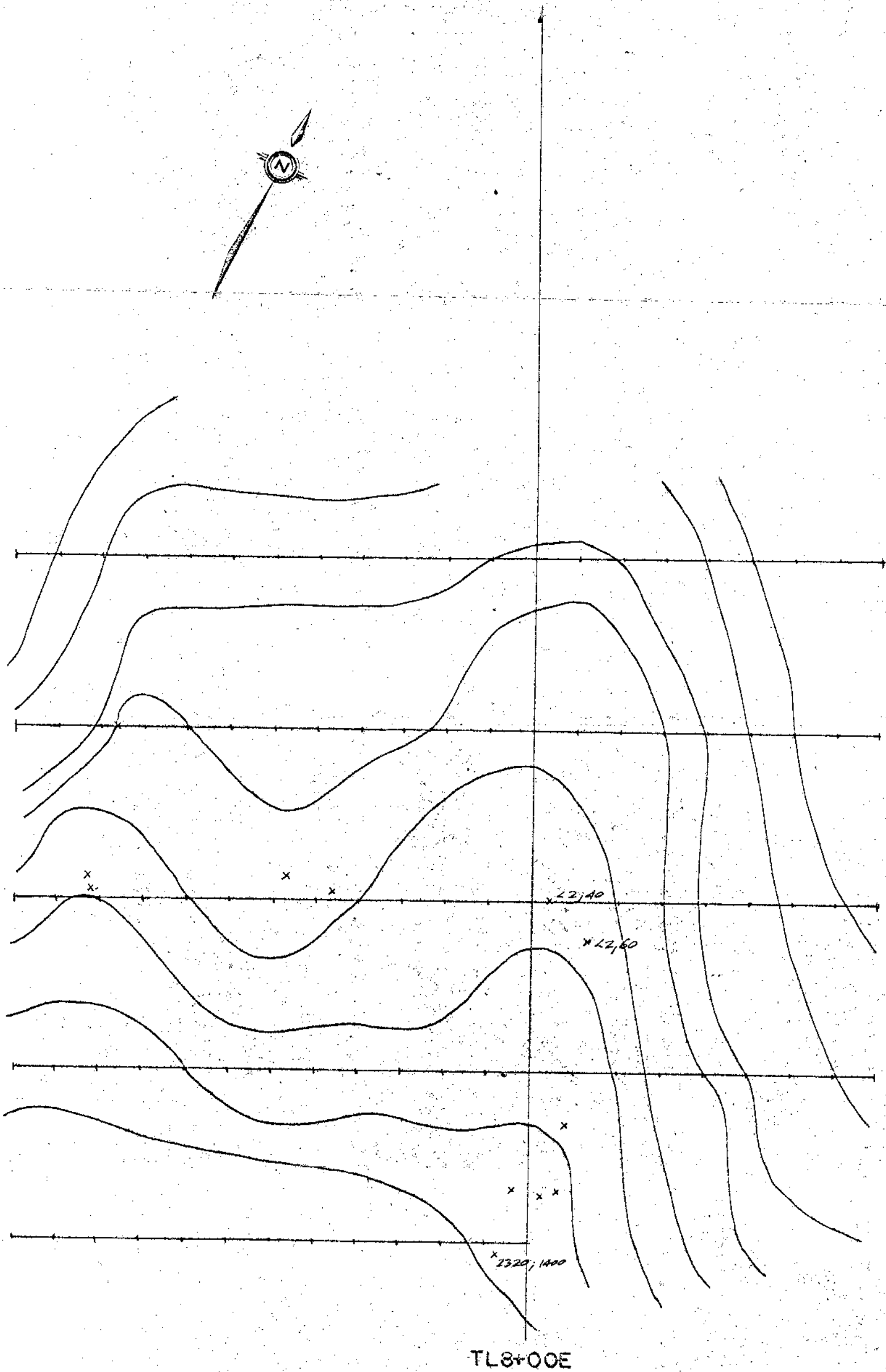
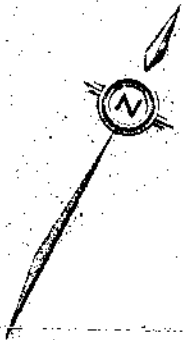
L18N

L17N

L16N

L15N

L14N



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ASSESSMENT REPORT
10348

GOLDEN RULE RESOURCES LTD.

CHAPPELLE PROJECT

MAP8 - Au and Ag in Rocks (PPB)-

METS 2 CLAIM

PROJECT GR-BC-7

B ZONE

SCALE 1:2500

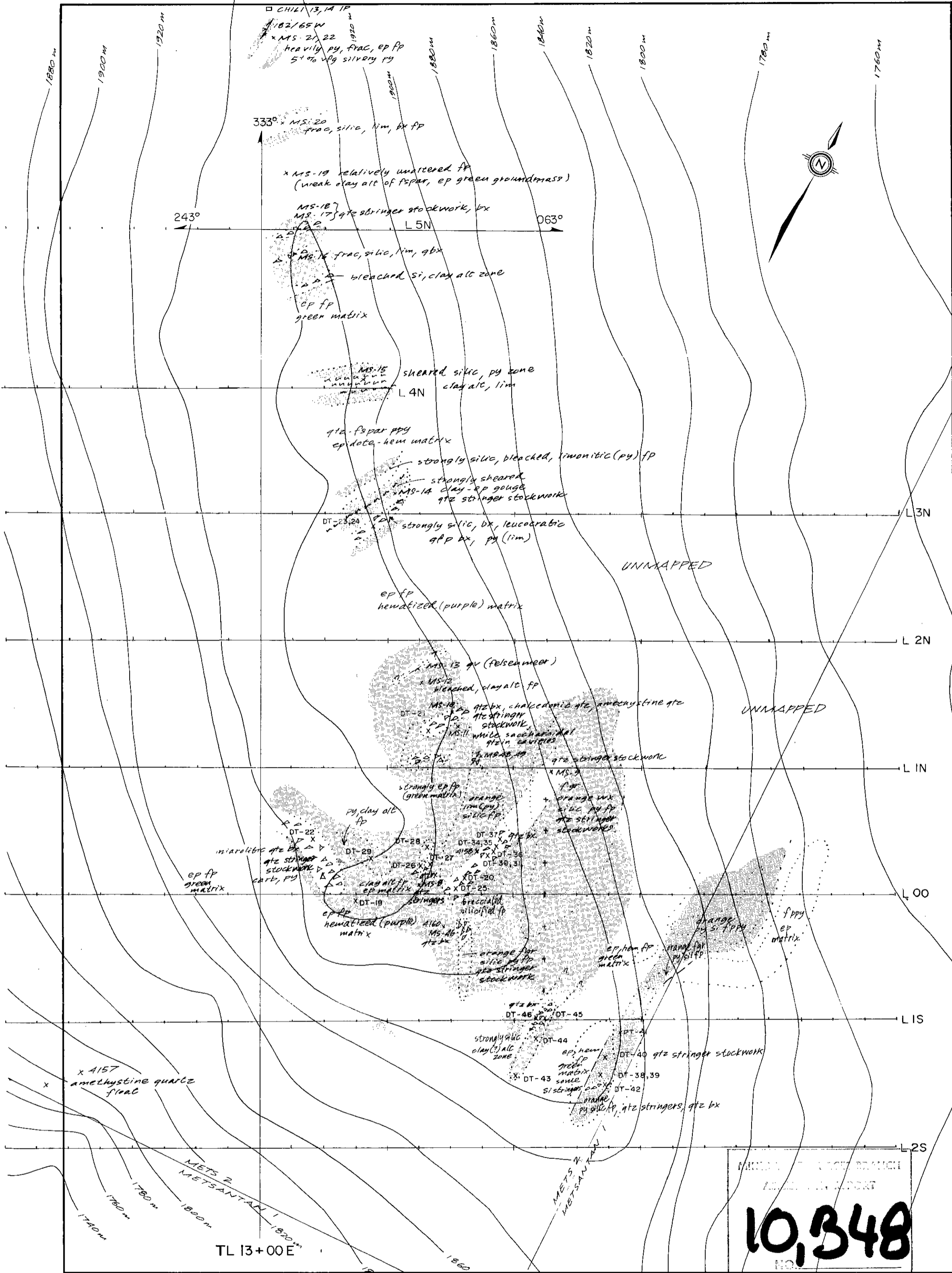


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10,348

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MINES & TECHNICAL SERVICES
 LIMITED REPORT
10,348
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- △ breccia zone
 - qbx, qtz bx quartz breccia
 - py pyrite
 - si, sil, silic silicification, silica
 - ep epidote
 - fp, fppy feldspar porphyry (Div. 2, Toodoggone Fm.)
 - q, qtz quartz
 - lim limonite, limonitic
 - hem hematite, hematized
 - x MS-8, DT-34, 4160 rock sample (see 1:2500 Rock Geochem Map)
- FELSENMEER AND BEDROCK UNITS**
- Zone of intense silicification, brecciation, quartz stringer stockworks, drusy, chalcedonic, and amethystine quartz ± pyrite
 - "orange" weathering zone of clay alteration, fine-grained pervasive silicification ± pyrite
 - "green" weathering zones of moderate to intense epidote and chlorite alteration, ± hematite

GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT	
MAP IA - DETAILED GEOLOGY	METS 2 CLAIM
PROJECT GR - BC - 7	C ZONE
SCALE 1:2500	
TAIGA CONSULTANTS LTD.	