84-#767-12491

4

GEOLOGICAL, GEOCHEMICAL and GEOPHYSICAL REPORT

METS 1 and 2 MINERAL CLAIMS

Latitude 57°27' North
Longitude 127°22' West

N.T.S. 94E/6W

LIARD MINING DIVISION

British Columbia

for

GOLDEN RULE RESOURCES LTD.
Calgary, Alberta

by

Gordon L. Wilson, B.Sc.

TAIGA CONSULTANTS LTD.
#100, 1300 - 8th Street S.W.
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MARCH 1984

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AUTHOR'S QUALIFICATIONS

I, Gordon L. Wilson, of 60 Ranchridge Road N.W. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a Project Geologist with the firm of Taiga Consultants Ltd. whose offices are located at Suite 100, 1300 - 8th St. S.W., Calgary, Alberta.

2. I am a graduate of the University of Calgary, B.Sc. Geology (1977).

3. I have worked in the field of mineral exploration since 1973.

4. I have personally worked on the Mets claims during the period September 8-24, 1983.

5. I have not received nor do I expect to receive any interest, directly or indirectly, in the properties described herein nor in the securities of Golden Rule Resources Ltd., in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 29th day of March, A.D. 1984.

Respectfully submitted,

G. L. Wilson

Gordon L. Wilson, B.Sc.

CERTIFICATE

I, Ronald Kort Netolitzky, of 74 Wildwood Drive S.W. in the City of Calgary in the Province of Alberta, do hereby certify that:

1. I am a consulting geologist with the firm of Taiga Consultants Ltd., whose offices are located at Suite 100, 1300 - 8th Street S.W., Calgary, Alberta.

2. I am a graduate of the University of Alberta, B.Sc. Geology (1964), and of the University of Calgary, M.Sc. Geology (1967).

3. I have practised my profession continuously since 1967.

4. I am a member in good standing of the Association of Professional Engineers, Geologists and Geophysicists of Alberta.

5. I have personally directed the exploration work carried out on the Mets claims and described herein, during September 1983.

6. Other than owning shares of and being a director and officer in Golden Rule Resources Ltd., I did not and do not expect to receive any interest, directly or indirectly, in the property described herein or in the securities of Golden Rule Resources Ltd. in respect of services rendered in the preparation of this report.

DATED at Calgary, Alberta, this 29th day of March, A.D. 1984.

Respectfully submitted,

PERMIT TO PRACTICE
TAIGA CONSULTANTS LTD.
Signature
Date March 29, 1984
PERMIT NUMBER: P 2399
The Association of Professional Engineers, Geologists and Geophysicists of Alberta

Ronald Kort Netolitzky, M.Sc., P.Geol.

PROFESSIONAL GEOLOGIST ALBERTA
NETOLITZKY

SUMMARY

During the period from September 9 to 24, 1983, crews carried out a comprehensive exploration program consisting of detailed soil and rock geochemical sampling, ground magnetic and VLF-EM surveying, and detailed geological mapping and prospecting on the Mets 1 and 2 mineral claims situated in the Toodoggone River area of northern British Columbia.

Twelve line kilometres of grid were retrieved in the south of the Mets 2 claim and 16 lines kilometres of new grid were established in the north area of the Mets 2 claim and the extreme north sector of the Mets 1 claim. Retrievals, extensions, and new grids were used to conduct both standard (25-metre station intervals) and detailed (12.5-metre station intervals) evaluative geochemical and geophysical surveys, resulting in a total of 1,010 soil samples and 90 rock samples being collected and analyzed for Au and Ag content. As well, areas previously unsurveyed by geophysical methods were filled in, completing magnetic coverage of the Mets 2 claim.

The results of the program are encouraging and have successfully upgraded the potential of the property.

Soil geochemical sampling in newly established grid areas resulted in defining a few isolated low-level Au and Ag anomalies in overburden areas. Detailed sampling conducted over pre-existing anomalies have further delineated anomalous trends and in several instrances have upgraded them significantly, some of which warrant drill testing. Ground magnetic surveying carried out on selected areas of the Mets 2 claim outlined two isolated weak magnetic highs of small dimensions. Detailed geological mapping carried out in selected areas of both claims resulted in the identification of a fairly extensive silica-kaolin alteration zone on the Mets 1 claim. The zone is characterized by strong fracturing and silicification. Quartz-hematite breccia and quartz stringer zones cut the fractures irregularly, which are weakly to moderately mineralized with pyrite. In the intensely fractured sections, silicification of primary fracture sets is also

intense, with some vein development noted. Other mapping and prospecting carried out in the southeastern (C grid area) and southwestern areas of the Mets 2 claim resulted in the discovery and sampling of a large amount of quartz and silica-kaolin altered float occurring on isolated patches and in semi-continuous features, indicating a nearby subcrop presence of strongly silicified and kaolinized alteration zones.

Presumably, the above-noted zones of intense alteration and strong fracturing represent that which corresponds to the upper levels of Buchanan's alteration model, thus carrying the potential of being an important exploration target.

INTRODUCTION

Location and Access

The Mets 1 and 2 mineral claims form a contiguous block of claims located in N.T.S. 94E/6W, approximately 510 km northwest of Prince George, 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 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:

Claim Name	No. of Units	Record Number	Date of Record
Mets 1	20	1253	April 3, 1980
Mets 2	20	1254	
	40		

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 1,980 metres 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 1,980+ metre 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.

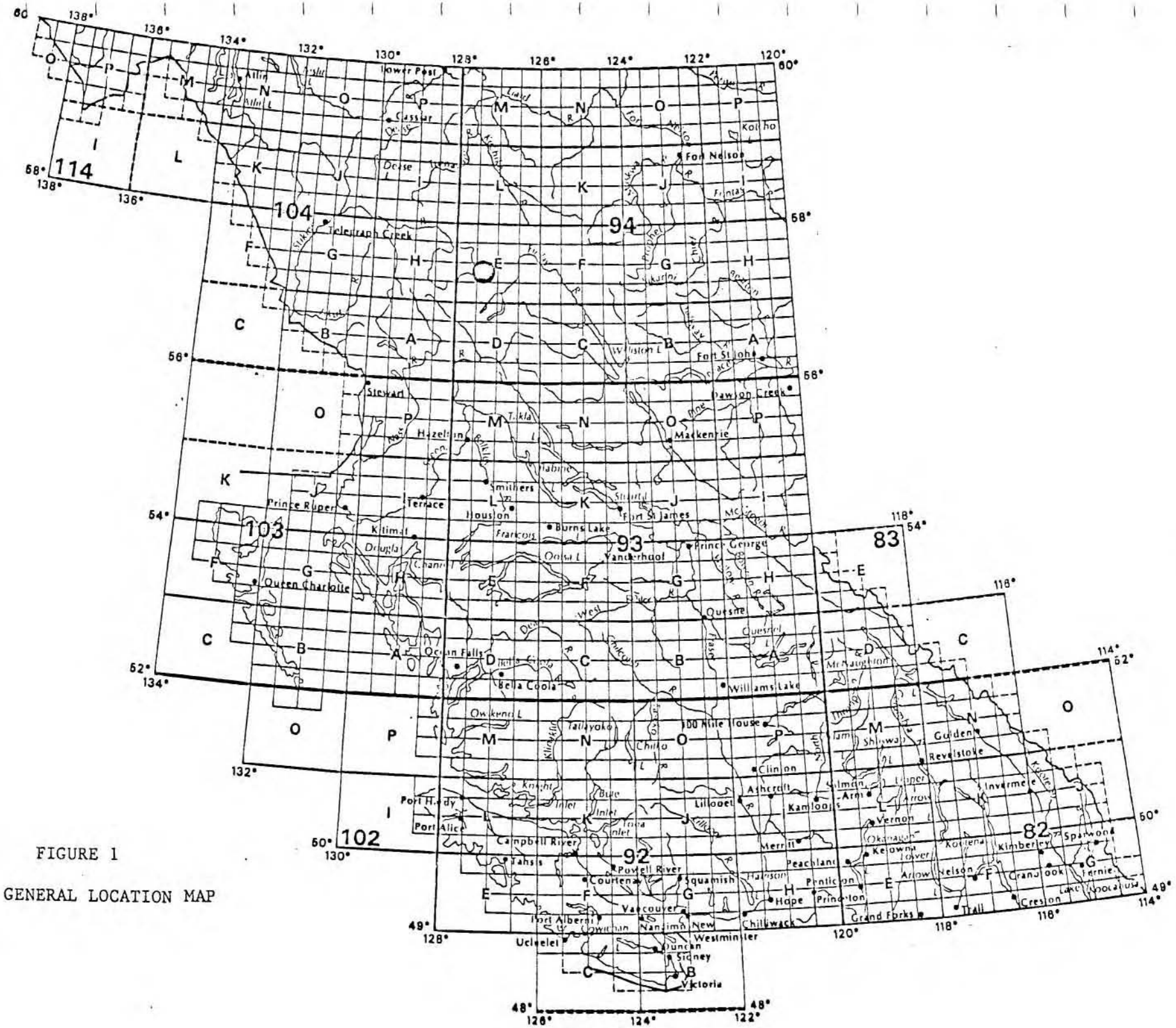

FIGURE 1

GENERAL LOCATION MAP

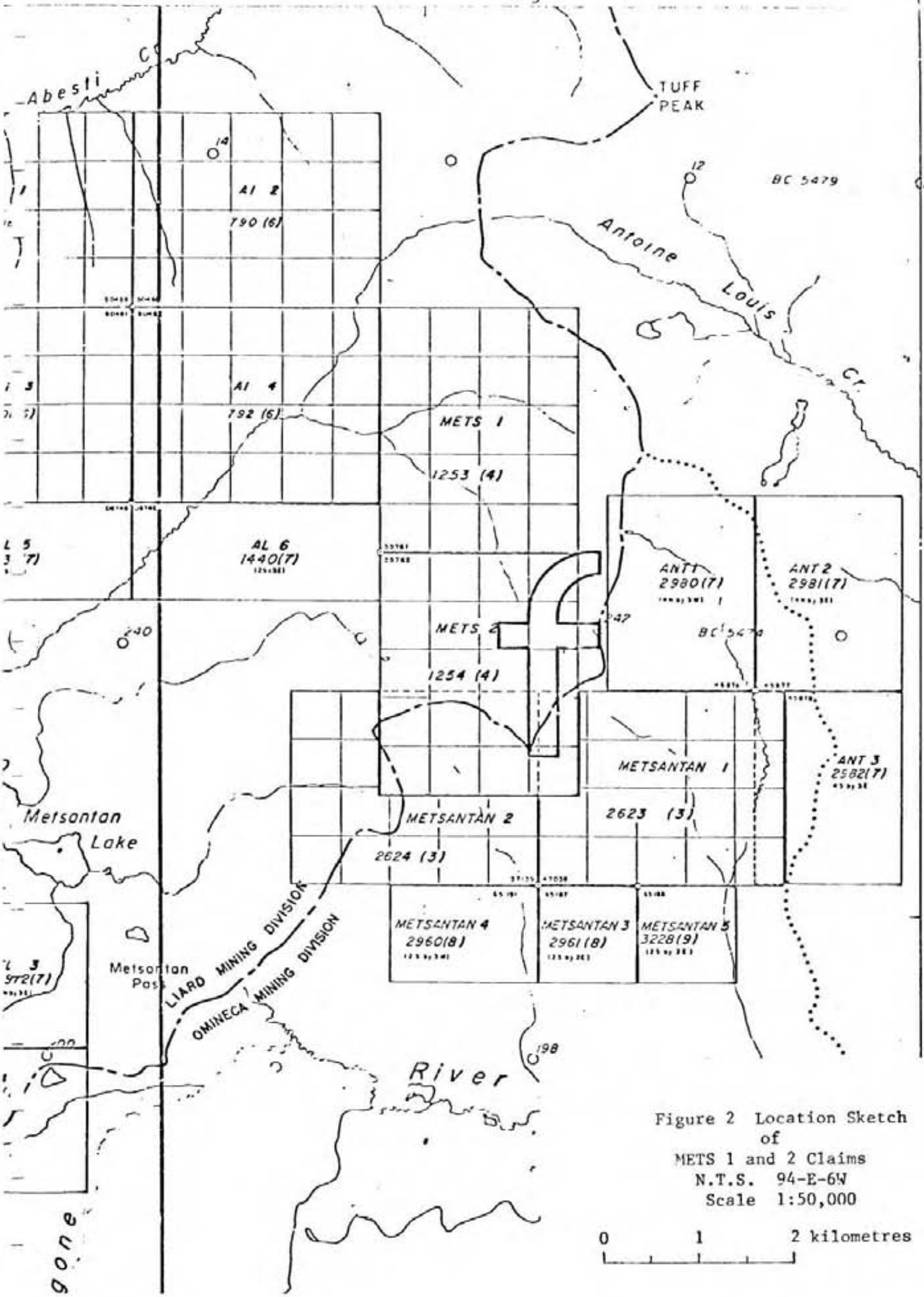

Figure 2 Location Sketch
of
METS 1 and 2 Claims
N.T.S. 94-E-6W
Scale 1:50,000

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 1,400+ to 1,700+ metres ASL. In some areas, 30 - 60 metre deep narrow canyons occur along the streams.

1983 Program

Exploration carried out on the Mets 1 and 2 claims during 1981 and 1982 is described in earlier assessment reports by M. Fox, dated January 1982 and October 1982 respectively.

Work carried out on the property during September 1983 consisted of geochemical soil and rock sampling, ground magnetic and VLF-EM surveying, geological mapping, and prospecting. 28 line km of grid was retrieved and established in selected areas, with line spacings of 100 metres and station intervals at 25 metres. A total of 1,010 soil samples and 90 rock samples were collected and submitted for Au and Ag analyses. Ground magnetic coverage was extended and completed in selected areas, totalling 18 line km; and 9.9 line km of VLF-EM surveying were carried out. Limited geological mapping and prospecting were carried out over selected areas, the results of which are presented at a scale of 1:5,000 (Map 1).

REGIONAL GEOLOGY

The claims are underlain by intermediate to acidic volcanic rocks of the Lower Jurassic Toodoggone Formation. The Toodoggone 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 of 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 Toodoggone 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 tuff.

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' colour of the tuffs resulted from oxidization 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 syenomonzonite 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 Toodoggone 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

The property geology of the Mets claims has been described in sufficient detail in an earlier report by M. Fox, dated January 1982. During the course of evaluation of a large number of pre-existing Au- and Ag-in-soil anomalies on the Mets 2 claim defined by the previous years' programs, this writer examined various areas of geological and economic importance, and concurs with the interpretations, with the exception of several areas which required more detailed study.

The southern half of the Mets 2 claim, where most of the bedrock exposures occur, is underlain by the green and orange crystal tuff members of Division 2 of the Toodoggone Formation. In the extreme southeastern portion, the predominantly orange crystal tuff rocks are transected by a series of northwesterly trending, well silicified fracture zones containing narrow sub-zones of quartz breccia, stringers, and lenses, typifying the complete replacement of the pre-existing tuff by silica. In the west-central area of the Mets 2 claim, a northerly striking, medium-grained quartz porphyry dyke intrudes the tuff. Silicification and brecciation of the wallrock is intense along strike for some distance.

On the Mets 1 claim, altered rocks belonging to Divisions 3 and 4 of the Upper Toodoggone Formation occur in isolated areas. They include silicified, well pyritized leucocratic feldspar and quartz-feldspar porphyries, tuff, and porphyritic trachyandesite and andesitic flows. Several distinct alteration patterns are recognized which correspond roughly to Buchanan's upper level alteration model for epithermal precious metals deposits. In the "A" Zone grid area of the Mets 1 claim, particularly between Lines 24N and 28N (east grid) and between Lines 32N and 38N (west grid), the volcanics have undergone pervasive silicification, thus resembling a rhyolite and are heavily pyritized. These rocks host quartz stringer zones and narrow quartz breccia zones. They occur most commonly in narrow 1.0 - 1.5 metre wide irregular to semi-parallel zones of several narrow stringers and silicified fractures, or in lenses 2 - 3 metres wide and 10 metres long. As far as could be determined from mapping in the

area, they appear to represent a parallel series of primary fractures and shears related to a north-northeasterly trending regional fault complex. Similar to several previously discovered zones to the south on the Mets 2 claim, the host rocks, structural conditions, and alteration patterns indicate that the tensional regime noted in the area is responsible for the formation of the conduit system which has facilitated the epithermal stockwork development here. Rock geochemical sampling carried out to date indicates potentially economic grades of Au and Ag are genetically related to these quartz breccia and quartz stringer zones only.

To the north, near L.40N/23+00E, occurs a silica-kaolin alteration zone hosting narrow quartz stringers and irregular lenses of quartz breccia. Detailed examination of the feature shows partial to complete replacement of the pre-existing trachyte porphyry by fine-grained silica, clay minerals, epidote, and pyrite, locally disseminated to 5%. Fracturing is moderate to intense, with primary sets trending north-northeasterly and secondary sets trending westerly. In sections of intense fracturing and between major fractures, narrow elongated breccia zones or lenses have developed. The zone appears to be related to a major deep-seated fracture system exhibiting semi-developed vertical and lateral zonation of alteration mineral assemblages. Laterally, beyond the central silicified core, is a zone of moderate propylitic alteration with dimensions twice the size of the core. The relict porphyritic texture noted in less intensely silicified sections is a result of albitization of the pre-existing feldspar phenocrysts in the original rock.

Additional exploration is required to fully investigate the potential of this zone as a down-faulted zone in which the younger volcanics are preserved at the stratigraphic level of the Division 2 tuffs and feldspar porphyry flows. The controlling structures themselves are responsible for the subsidence, and may have acted as controls of hydrothermal activity.

Detailed geological mapping and prospecting investigations carried out over the west-central and southeastern grid regions of the Mets 2

claim resulted in the discovery of several float trends consisting of pervasively clay-altered, moderately to completely silicified feldspar porphyry and porphyritic trachyte and trachyandesite material. As well, a number of quartz and quartz breccia fragments were located in talus and felsenmeer deposits paralleling known alteration trends and known geochemical anomalies. Several rock samples collected contain sub-ore quantities of Au and Ag.

GEOCHEMISTRY

Sampling and Analytical Procedures

A total of 1,010 soil samples were collected at 12.5 metre intervals along closely spaced grid lines, and at 25 metre intervals along retrieved and extension grid lines apced at 100 metre intervals.

The former samples were collected during the course of evaluation of previously defined Au and Ag soil anomalies on the Mets 2 claim; the latter samples were collected during the process of extending or filling in geochemical coverage in specific areas of the Mets 2 claim. Samples were collected mainly from B-horizon soils at depths of 15 - 30 cm.

A total of 90 rock samples were routinely collected during geological mapping and prospecting investigations, and were submitted for Au and Ag analyses.

Rock and soil samples were analyzed for Au and Ag by combined fire assay and atomic absorption techniques. Soils were analyzed by TerraMin Research Labs Ltd. of Calgary, Alberta; and rock samples were analyzed by both TerraMin and Loring Laboratories Ltd. also of Calgary.

Approximately 25% of the Au-in-soils values fall below the 2 ppb detection limit. However, a larger number of samples returned marginally and strongly anomalous values in Au and Ag, providing a significant increase in the definition of the 1982 soil anomalous trends which parallel known trends of alteration. Anomalies outlined by the 1981 and 1982 programs are described in detail in earlier reports by Fox (January 1981 and January 1982). These results are described in terms of their locations in the "A", "B", and "C" grid areas which refer to the northwest and southeast grid areas of the Mets 2 ("B" and "C") and all of the grid area of the Mets 1 ("A"). New grid lines were established in the northeast area of the Mets 2 claim, which will be referred to as the "E" grid area, as well as the southwestern portion of the Mets 2 claim, which is referred to as the "D" grid in this report. The southwesterly extension of the "C" grid area will retain the same identification. The results of the 1983 program are described below.

"E" Grid

Geochemical analyses of soils collected in this grid area have identified two isolated, marginally anomalous zones in an overburden and talus covered area. To the south, several northeasterly trending boulder trains occur, composed of angular to subrounded fragments of rust-stained quartz, silicified and clay-altered quartz feldspar porphyry, and silicified trachyandesite. Approximately 100 metres to the north occurs a creek bed exposure of moderately to strongly silicified trachyandesite showing strong hematite alteration of feldspar and pervasive silicification of major fracture sets carrying minor pyrite along fracture surfaces. Soil sampling carried out in the vicinity of an anomaly indicated by 1982 work resulted in a small 90 metre long northwesterly trending, marginally anomalous zone just downstream from the above-mentioned exposure. Presumably, the source is the same.

"D" Grid

Geochemical analyses of soils collected in 1983 have defined three Au and Ag anomalies of major strength and dimension.

Anomaly D-1

Situated between Lines 10N and 14N/7+00E and centered crudely on Line 12+50N/8+00E is a 600 metre, northwesterly trending Au and Ag anomaly. Over most of its length, the trend is within talus or broken outcrop, and is subparallel to an altered quartz porphyry dyke trending northwesterly through this area and underlying most of the anomaly. Some of its strike length was delineated by 1982 sampling on the northern end, but 1983 sampling has extended the anomaly an appreciable distance south. In the vicinity of Line 15N/7+00E (1981 grid), two major quartz and quartz breccia float trends occur within the anomaly; and along 7+50E to 8+00E, a major alteration zone is exposed consisting of intensive and pervasive clay and silica alteration with well developed quartz veins, quartz breccia lenses,

and silicified fractures, all of which are intermittently pyritized. A narrow float trend of clay alteration accompanies the float trend of silicification and quartz breccias to the west of the exposure.

Anomaly D-2

The D-2 zone is a northwesterly trending, 400 metre long Au- and Ag-in-soils anomaly situated in an overburden and talus covered area. It extends northwesterly from Line 10+50N/4+00E to Line 14+50N/4+50E at which point it is disrupted by severe topographical conditions which hampered sampling. On Line 15+25N (1981 "B" grid), the zone appears to continue as an arcuate (convex to the east) feature for 200 metres. At Line 18+00N/5+00E (1982 grid), it crudely intersects the northwestern extremity of Anomaly D-1, and may represent a subsidiary zone to it.

Anomaly D-3

The D-3 zone is situated in the extreme southwestern sector of the "D" grid and consists of a very irregular westerly trending zone of marginally to moderately anomalous Au- and Ag-in-soils values in a talus covered area. Geochemical coverage along this section is incomplete, as grid lines were ended at a series of steep cliffs. Outcrop occurs along a northwesterly trending ridge composed mainly of weakly altered trachyte porphyry.

"C" Grid

Soil geochemical sampling in the "C" grid area consisted of systematic sampling carried out over detailed evaluative grids placed over pre-existing Au and Ag anomalies, and standard sampling carried out on grid line extensions of the 1982 grid.

Anomaly C-1

Detailed geochemical evaluations carried out over existing Au/Ag anomalies in the extreme southeastern "C" grid area of the Mets 2 claim resulted in the delineation of a broad, highly irregular, crudely

northwesterly trending zone of moderately to strongly anomalous Au- and Ag-in-soils values. The southern part of the anomalous zone extends onto an adjacent claim group along the southern boundary of the Mets 2 claim. The anomalous values occur over a float trend of silicification and quartz breccia as well as isolated exposures of weakly porpylitically altered trachyandesite.

Anomaly C-2

The C-2 zone is a semi-continuous, northerly to north-northeasterly trending narrow anomaly 900 metres long. Over most of its strike length, anomalous values occur within a major quartz and quartz breccia float trend. Between Line 6N (1981 grid) and Line 12N (1982 grid), anomalous values occur over a zone of intense silicification, clay alteration, and irregular pyritization which is exposed mainly in subcrop.

A few isolated moderate to high level anomalies accompany these trends on the "C" grid, and appear to be related to nearby exposures or float trends of silicified and clay-altered bedrock.

"B" Grid

Geochemical analyses of soils collected in 1983 over existing anomalous zones indicated by 1982 sampling program, have established that the main Au- and Ag-in-soils anomalies occur in the vicinity of major quartz or quartz breccia float trends and over zones of pervasive clay alteration, silicification, and pyritization. Detailed sampling of existing anomalies resulted in the delineation of numerous isolated marginal to high level Au and Ag anomalies, crudely trending northwesterly.

Rock Results

Numerous quartz, quartz breccia, and clay-altered rock samples were collected, with some marginally anomalous and anomalous values realized at sample sites S-9-21-4 (.414 oz/ton Au); L.16N/8+37.8E (.292 oz/ton Au); S-9-20-5 (.298 oz/ton Au); and GW-M-07 (112 ppb Au, 3000 ppb Ag). All occur in the vicinity of major alteration zones in outcrop or float trends.

GEOPHYSICS

Ground Magnetometer Survey

In an effort to complete the magnetic coverage over the Mets 2 claim and to further define magnetic anomalies of the 1982 survey, 28 km of ground magnetic surveying were carried out over selected areas of the 1981, 1982, and newly established 1983 grids on the Mets 1 and 2 claims. Line spacings were at 100 metres with readings taken at 25 metre intervals using a Scintrex MP-2 proton precession magnetometer. Magnetic control points were established at each tie line and cross line intersection, with cross lines being surveyed in loops starting and ending at control points.

Survey results obtained in the "D" and "E" grid areas indicate several small isolated magnetic highs 50 - 65 metres wide and 75 - 200 metres longs. These coincide roughly with geochemical anomalies and have peripherally associated Au and/or Ag anomalies.

In the extreme northeastern sector of the Mets 1 claim, a northerly trending geophysical lineament is defined over 500 metres in length. This may be interpreted as a fault lineament or a contact, probably the former as no major lithological change was noted in the area during geological mapping.

Ground Electromagnetic Survey

In the northern sector of the Mets 1 claim, approximately 9 km of grid lines were established and surveyed using a Geonics VLF-EM-16 unit. The transmitter used was Seattle, Washington (18.6 KHz); direction to the transmitter was 178° Azimuthal. The survey was designed to test the conductive responses over a major, well developed quartz breccia and quartz stringer stockwork locally referred to as the Golden Furlong occurrence.

No significant conductive responses were noted in the grid area. Several weak conductors coincided with low-level soil geochemical anomalies delineated by 1983 work.

CONCLUSIONS AND RECOMMENDATIONS

The results of the work carried out in 1983, together with that completed in previous years, clearly indicate that the greatest potential for discoverying significant precious metals zones on the Mets claims lies within the east-central grid area of the Mets 2 where a well developed quartz vein occurs in a major silicified and clay-altered zone. Lengthy quartz and quartz breccia float trends parallel this alteration zone. As evidenced in several outcrops, silicification has progressed past the first stage of replacement into an irregular vein development phase with associated clay alteration zones. As discussed in the geochemistry results, narrow irregularly defined to subparallel soil anomalies coincide with the zones.

Geochemical anomalies in the C-1, C-2, and E-1 zones are sufficiently localized and correlatably wiht quartz and clay-altered bedrock or float trends to successfully carry out trenching and subsequently drill testing. If vein material is discovered through trenching, then drill testing is recommended.

Only the zones of intense silicification that are structurally controlled should be explored, rather than that resulting from large-scale replacement. On the Mets 1 claim in the north-central area, structurally controlled silicification has resulted in irregular but notable vein development. Other open fracture zones of this type exist on the Mets 2 claim and should be trenched, contingent upon more detailed sampling and mapping.

REFERENCES

Buchanan, L. J. (1981): Precious Metal Deposits Associated with Volcanic Environments in the Southwest; Arizona Geological Society Digest, v.XIV, pp.237-262.

Fox, M. (January 1982): Geological, Geochemical and Geophysical Report on the Mets 1 and 2 Mineral Claims, Liard Mining Division, British Columbia; for Golden Rule Resources Ltd.

A P P E N D I X I

Analytical Techniques

TERRAMIN RESEARCH LABS LTD.
14-2235 - 30th Avenue N.E. Calgary, Alberta T2E 7C7
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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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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 # 83-332 Date Nov. 24, 1983

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Sample No.		Au ppb	Ag ppb
11 "MB"			
L 22+50 N	9+00 E	20	410
	9+25	18	380
	10+00	112	1020
	10+25	34	650
	10+50	12	2920
	10+75	18	3100
	11+00	184	310
	11+25	14	200
	11+50	20	310
	11+75	12	1500
L 22+25 N	9+50 E	16	330
	10+25	12	940
	11+25	16	220
L 22+00 N	9+50 E	64	480
	9+62.5	66	510
	10+12.5	-8	2100
	10+25	124	420
	10+37.5	32	600
	11+12.5	12	310
	11+25	4	230
	11+37.5	92	1000
L 21+75 N	9+50 E	1064	1000
	10+25	76	720
	11+25	20	110
L 21+50 N	10+00 E	28	170

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ANALYTICAL REPORT

Job # 83-332 Date

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Sample No.			Au ppb	Ag ppb
"MB"				
L 21+50 N	10+25	E	24	270
	10+50		44	260
	10+75		16	320
	11+00		28	290
	11+25		58	320
	11+50		8	270
	11+75		216	160
L 21+00 N	26+00	E	-2	120
	26+25		-2	200
L 19+00 N	15+25	E	-2	1460
	15+50		-8	880
	15+75		-4	1540
	16+00		-8	920
	16+25		6	1480
	16+50		4	220
	16+75		8	930
	17+00		12	280
	17+25		6	980
	17+50		-4	340
	17+75		8	190
	18+00		30	110
	18+25		-4	100
	18+50		-2	130
	18+75		-2	420
	19+00		2	240

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ANALYTICAL REPORT

Job # 83-332 Date

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Sample No. "MB"			Au ppb	Ag ppb
L 19+00 N	19+25	E	-8	160
	19+50		52	210
	19+75		8	420
	20+00		54	130
	20+25		-2	100
	20+50		-2	820
	20+75		8	160
	21+00		-4	100
	21+25		14	190
	21+50		8	490
	21+75		2	110
	22+00		-2	30
	22+25		4	130
	22+50		-2	30
	22+75		-2	90
	23+00		-2	70
	23+25		-2	80
	23+50	(1)	-2	160
	23+50	(2)	-4	300
	24+00		-2	290
	24+25		-2	80
	24+50		-2	80
	24+75		16	100
	25+00		2	140
	25+25		-2	60

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ANALYTICAL REPORT

Job # 83-332 Date

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Sample No. "MH"		Au ppb	Ag ppb
L 19+00 N	25+50 E	-2	200
	25+75	2	180
	26+00	4	340
L 17+00 N	15+00 E	-4	380
	15+25	-8	680
	15+50	-2	150
	15+75	-2	200
	16+00	152	400
	16+25	2	640
	16+50	6	140
	16+75	2	550
	17+00	24	560
	17+25	-2	270
	17+50	4	180
	17+75	4	240
	18+00	-8	440
	18+25	-2	250
	18+50	-2	240
	18+75	2	280
	19+00	-2	100
	19+25	-2	140
	19+50	-2	350
	19+75	8	320
	20+00	-8	400
	20+25	-2	160

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Sample No. "ME"		Au ppb	Ag ppb
L 17+00 N	20+50 E	-2	170
	20+75	-2	300
	21+00	-2	210
	21+25	-4	260
	21+50	2	240
	21+75	4	200
	22+00	-8	640
	22+25	2	250
L 15+00 N	15+00 E	6	340
	15+25	-8	240
15+50 →	15+30	-2	230
	15+75	-2	240
	16+00	-2	350
	16+25	-2	230
	16+50	-2	80
	16+75	-4	2520
	17+00	-2	630
	17+25	-2	100
	17+50	-2	110
	17+75	-2	110
	18+00	2	210
	18+25	-2	40
	18+50	4	170
	18+75	4	80
	19+00	-2	80

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Sample No. "NB"		Au ppb	Ag ppb
L 15+00 N	19+25 E	-2	140
	19+50	-2	200
	19+75	-2	110
	20+00	-2	90
	20+25	-2	280
20+50 →	20+30 (?)	-2	90
	20+75	8	220
	21+00	22	230
	21+25	-2	160
	21+50	2	170
	21+75	-2	350
	22+00	2	270
	22+25	6	90
	22+50	4	90
	22+75	2	250
	23+00	6	550

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Sample No. "MMG" Soil		Au ppb	Ag ppb	
L 50+00 N	17+00 E	4	400	
	17+25	-10	300	
	17+50	4	320	
	17+75	-4	460	
	18+00	-2	290	
	18+25	-8	360	
	18+50	N.S.		
	19+00	-8	520	
	19+25	-8	440	
	19+50	-25	2800	scratch result. 2 gm sample insufficient
	19+75	-2	280	
	20+00	-8	360	
	20+25	14	1220	
	20+50	-2	410	
	20+75	-4	1100	
	21+00	-8	360	
	21+25	-4	580	
	21+50	-4	600	
	21+75	-2	290	
	22+00	2	140	
	22+25	12	370	
	22+50	18	750	
	22+75	16	350	
	23+25	24	2920	
	23+50	24	2000	

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Sample No. "GRID"		Au ppb	Ag ppb
L 50+00 N	23+75 E	32	540
	24+00	10	320
	24+25	20	3600
	24+50	118	570
	24+75	-8	240
	25+00	2	210
	25+25	-2	320
	25+50	8	230
	25+75	-2	800
	26+00	12	220
	26+25	6	260
	26+50	6	510
	26+75	-2	50
	27+00	-2	70
	27+25	14	190
	27+50	4	80
	27+75	8	80
	28+00	6	80
	28+25	2	90
	28+50	2	70
	28+75	8	130
	29+00	-2	130
	29+25	-4	60
	29+50	-4	-20
	29+75	-2	40

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Sample No. "MAG"		Au ppb	Ag ppb
L 50+00 N	30+00 E	-2	100
	30+25	-2	60
	30+50	6	130
	30+75	-2	30
	31+00	2	60
	31+25	-2	40
	31+50	2	50
	31+75	-2	150
	32+00	-4	60
	32+25	-2	230
	32+50	-2	150
	32+75	-4	120
	33+00	-10	100
	33+25	-2	70
	33+50	-4	40
	33+75	-2	90
	34+00	-2	70
	34+25	-2	90
	34+50	-2	-10
L 47+00 N	17+00 E	12	520
	17+50	-2	470
	17+75	6	630
	18+00	8	160
	18+25	-2	250
	18+50	4	270

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Sample No. "RUSH"		Au ppb	Ag ppb
L 47+00 N	18+75 E	-2	410
	19+00	2	330
	19+75	2	330
	20+00	4	500
	20+25	4	440
	20+75	6	480
	21+00	-2	290

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Sample No.			Au ppb	Ag ppb
DD-JA	L 0+00 S	0+12.5 W	42	760
		0+00	24	600
		0+12.5	20	400
	L 0+75 S	0+12.5 W	-12	310
		0+00	14	450
	L 1+00 S	0+12.5 E	28	880
		0+25	40	540
		0+37.5	56	630
RGB	L 9+25 E	0+12.5 N	20	410
		0+00	6	800
		0+12.5 S	66	500
	L 10+00 E	0+12.5 N	64	1550
		0+00	12	940
		0+12.5 S	14	610
	L 10+25 E	0+12.5 N	84	820
		0+00	388	1670
		0+12.5 S	10	700
	L 23+50 N	6+00 E	14	1680
	L 22+00 N	14+75 E	6	6100
	L 18+50 N	7+00 E	-4	1440
		7+25	22	780
		7+50	-4	560
		7+75	-2	800
		8+25	8	780
		8+50	-4	360

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Sample No.			Au ppb	Ag ppb
MUG	L 18+50 N	9+75 E	12	790
		10+25	-2	120
		11+00	-4	360
		11+25	32	1710
	L 18+25 N	7+50 E	18	1840
		8+00	776	3400
		10+75	-2	240
	L 18+00 N	00+0.5 E	26	1350
		07+82.5	4	480
		08+00	-4	420
		08+00	512	930
		08+12.5	182	480
		09+87.5	8	1360
		10+00	-10	2900
		10+12.5	8	5500
		10+12.5	32	5400
		10+62.5	8	240
		10+87.5	-2	280
		17+87.5	24	630
	L 17+75 N	07+00 E	-4	260
		08+00	8	680
		10+00	-2	550
	L 17+50 N	05+75 E	2	210
		06+00	24	320
		06+25	-4	180

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Sample No.		Au ppb	Ag ppb
MOG L 17+50 N	6+50 E	-10	350
	6+75	-8	680
	7+00	-4	300
	7+25	-14	200
	7+50	-20	2000
	7+75 (1)	-2	400
	7+75 (2)	10	550
	8+00	10	190
	8+50	6	240
	8+75	I.S.	
	10+50	32	310
	10+75	48	1080
L 17+25 N	6+12.5 E	140	240
	6+25	48	1400
	9+50	8	410
L 17+00 N	6+25 E	12	220
	6+37.5	4	500
	9+50	80	3040
	9+62.5	64	2740
L 16+75 N	6+25 E	32	220
L 16+50 N	7+75 E	24	360
	8+00	142	270
	8+25	44	470
	8+50	12	440
	9+00	48	770

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Sample No.		Au ppb	Ag ppb
L 16+25 N	8+25 E	24	540
L 16+00 N	8+12.5	58	860
	8+25	20	310
	8+37.5	46	370
	8+50	36	420
L 15+75 N	8+25 E	72	1580
L 15+50 N	7+50 E	68	2120
	7+75	176	2800
	8+00	118	2800
	8+25	220	660
L 15+25 N	7+50 E	144	3100
	7+75	64	1160
L 15+00 N	7+37.5 E	340	8670
	7+75	66	2700
	7+87.5	68	1100
	8+00 (1)	3140	3100
	8+00 (2)	11100	2400
	8+12.5	588	2500
L 14+75 N	8+00 E	292	1620
L 14+50 N	7+50 E	20	1360
	7+75	24	1400
	10+75	16	2720
L 14+25 N	7+50 E	62	1730
	7+75	104	2300
L 5+75 N	0+50 E	248	420

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Sample No.			Au ppb	Ag ppb
L 5+50 N	11+75	E (1)	8	1280
	11+75	(2)	10	510
	12+00		I.S.	
	12+25	(1)	I.S.	
	12+25	(2)	I.S.	
	12+50	(1)	16	1160
	12+50	(2)	10	1800
	12+75		88	1880
	13+00		84	1510
	13+25		8	560
L 5+25 N	12+25	E	36	1160
	12+75		6	580
L 5+00 N	12+12.5	E	4	480
	12+25		56	1020
	12+37.5		102	2500
	12+62.5		114	1740
	12+75		96	720
	12+87.5		4140	16800
L 4+75 N	12+25	E	8	2280
	12+75		92	2200
L 4+50 N	11+75	E	24	650
	12+00		18	180
	12+25		50	780
	12+50		20	750
	12+75		126	1310

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Sample No. MS			Au ppb	Ag ppb
L 4+50 N	13+00	E	8	280
	13+25		36	190
L 3+50 N	11+00	E	-2	190
	11+25		8	1360
	11+50		26	890
	11+75		686	1040
	12+00		4	280
	12+25		252	1310
	12+50		12	310
	12+75		I.S.	
L 3+25 N	11+50	E	176	620
	12+25		-2	1440
L 3+00 N	11+32.5	E	4	880
	11+50		8	330
	11+62.5		4	780
	12+12.5		2	1010
	12+25		-2	650
	12+37.5		4	600
L 2+75 N	11+50	E	100	780
	12+25		2	160
L 2+50 N	8+50	E	4	320
	8+75		-2	210
	9+00		16	530
	9+25		246	550
	9+50		4	340

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Sample No. MOG			Au ppb	Ag ppb
L 2+50 N	11+00	E	2	510
	11+25		6	270
	11+50		204	4800
	11+75		8	1160
	12+00		24	6670
	12+25		96	520
	12+50		8	600
	12+75		88	400
L 2+25 N	9+00	E	-2	210
L 2+00 N	8+87.5	E	-2	330
	9+00		2	290
	9+12.5		-2	260
L 1+75 N	9+00	E	-2	180
L 1+50 N	8+50	E	4	250
	8+75		2	170
	9+00		2	240
	9+25		-2	460
	9+50		8	1360
	11+75	(a)	256	2600
	11+75	(b)	6	200
	12+00		12	340
	12+25		70	1070
	12+50		44	1300
	12+75		10	320
	12+25		8	620

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Sample No. MOG			Au ppb	Ag ppb
L 1+00 N	12+12.5 E		I.S.	
	12+25		236	570
L 0+75 N	12+25 E		32	630
L 0+50 N	12+00 E		4	250
	12+25		30	260
	12+50		14	400
	12+75		8	520
L 0+50 S	10+50 E		34	3400
	10+75		536	1340
	11+00		360	920
	11+25		48	730
	11+75		20	700
	12+25		48	2200
	12+50		48	2600
	12+75		54	6600
	14+25	(1)	8	680
	14+25	(2)	2	520
	14+50		2	170
	14+75		680	2700
	15+00		190	540
L 0+75 S	11+00 E		26	750
	11+50		72	1430
	11+75		158	920
	12+00		140	1040
	12+25		56	920

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Sample No. "[illegible]"			Au ppb	Ag ppb
L 0+75 S	14+50	E	132	690
L 1+00 S	10+87.5	E	6	580
	11+00		4	640
	11+12.5		12	1880
	11+37.5		16	590
	11+50		58	710
	11+62.5		134	830
	11+75		182	1830
	11+87.5		124	2800
	12+25		576	10000
	12+37.5		226	3600
	14+12.5		18	1510
	14+25		440	1050
	14+37.5		674	1800
	14+50		1140	2500
	14+62.5		480	3300
L 1+25 S	11+00	E	76	1240
	11+50		316	1680
	11+75		1110	5100
	12+00		1160	8000
	12+25		546	9500
	14+25		12	2220
L 1+50 S	10+50	E	2	460
	10+75		16	1120
	11+00		248	2300

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Sample No. "GRID"			Au ppb	Ag ppb
L 1+50 S	11+25	E	536	2900
	11+50		54	1700
	11+75		I.S.	
	12+00		14	900
	12+50		104	6200
	12+75		32	5200
	13+00		34	1160
	13+25		80	2400
	14+50		68	3800
	14+75		60	2600
L 1+75 S	11+50	E	358	3600
	12+25		40	1990
	12+50		292	5200
L 2+00 S	11+37.5	E	560	5100
	11+50		222	6000
	11+87.5		382	5900
	12+12.5		80	3470
	12+25		100	4600
	12+37.5		252	3200
	12+50		144	5600
	12+62.5		124	2900
L 2+25 S	11+50	E	136	4130
	12+25		384	6600
	12+50		324	1000
L 2+50 S	11+00	E	6	360

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Sample No. "MOG"			Au ppb	Ag ppb
L 2+50 S	11+25	E	12	1680
	11+50		46	3100
	11+75		92	1170
	12+00		122	3500
	12+25		728	4130
	12+75		44	1450
	13+00		98	1270
	13+25		16	1780
L 0+50 S	14+50	E	2	170

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Sample No. "M-T-S"			Au ppb	Ag ppb
L 17+00 N	22+50	E	-4	660
	22+75		-8	400
	23+00		-8	200
	23+25		-4	680
	23+50		2	50
	23+75		-8	80
	24+00		-4	140
L 19+00 N	15+00	E	-8	240
L 22+50 N	9+50	E	168	3300
	9+75		26	1180

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Sample no. "[illegible]"		Au ppb	Ag ppb
L 20+00 N	11+00 E (1)	4	410
	11+00 (2)	8	280
	11+12.5	-8	520
	11+37.5	60	740
	11+50	4	280
	11+75	-4	320
	19+50	20	1760
	19+75	4	480
	20+25	-8	360
L 20+50 N	no sample pt	104	320
	6+00 E	2	160
	6+50	240	630
	6+75	8	280
L 20+75 N	6+50 E	48	780
L 21+00 N	6+37.5 E	24	280
	6+50	28	460
	6+62.5	64	510
	8+50	20	1400
	9+00	16	360
	9+12.5	122	330
	9+25	112	560
	9+50 (1)	12	440
	9+50 (2)	120	480
	15+00	-2	270
	15+25	-4	1120

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Sample No. "METRIC"			Au ppb	Ag ppb
L 21+00 N	15+50	E	2	130
	15+75		-2	210
	16+00		4	140
	16+25		2	330
	16+50		2	120
	16+75		2	120
	17+00		2	240
	17+25		-2	160
	17+50		-2	260
	17+75		-2	130
	18+00		2	130
	18+25		-2	290
	18+50		-2	490
	18+75		4	260
	19+00		-2	300
	19+25		-2	190
	19+50		-2	120
	19+75		10	160
	20+00		2	190
	20+25		2	80
	20+50		2	250
	20+75	(1)	-8	300
	20+75	(2)	I.S.	
	21+00		2	1190
	21+25		26	170

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Sample No. "[illegible]"			Au ppb	Ag ppb
L 21+00 N	21+50	E	4	100
	21+75		-2	80
	22+00		8	50
	22+25		6	110
	22+50		6	50
	22+75		-2	260
	23+00		2	100
	23+25		4	50
	23+50		-2	50
	23+75		6	50
	24+00		2	50
	24+25		4	40
	24+50		8	110
	24+75		2	210
	25+00		2	80
	25+25		8	80
	25+50		6	160
	25+75		8	80
	26+50		8	340
L 21+50 N	6+00	E	120	5360
	6+25		112	230
	6+50		28	200
	6+75		104	380
	7+00		16	560
	9+25		20	800

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Sample No. "METS"			Au ppb	Ag ppb
L 21+75 N	6+50	E	184	210
L 23+00 N	1+00	E (1)	10	90
	1+00	(2)	4	180
	10+50		2	210
	15+00		4	100
	15+25		-2	220
	15+50		2	400
	15+75		-2	180
	16+25		-2	120
	16+50		-2	170
	16+75		-2	140
	17+25		2	160
	17+50		2	360
	17+75		-2	70
	18+00		2	90
	18+25		-2	150
	18+75		2	370
	19+00		-2	210
	19+25		-2	100
	19+50		2	230
	19+75		2	200
	20+00		2	100
	20+25		-2	590
	20+50		2	110
	20+75		4	80

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Sample No. "NETS"		Au ppb	Ag ppb
L 23+00 N	21+00 E	4	420
	21+25	-2	320
	21+50	-4	180
	21+75	-2	680
	22+00	-2	170
	22+25	8	480
	22+50	-8	80
	22+75	8	160
	23+00	-8	200
	23+25	-8	160
	23+50	-8	40
	23+75	192	480
	24+00	-8	120
	24+25	-2	10
	24+50	4	170
	24+75	-2	130
	25+00	-8	40
	25+25	2	120
	25+50	-2	120
	25+75	-2	290
	26+00	4	140
	26+25	4	210
	26+50	-2	140
	26+75	-2	30
	27+00	-2	50

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Sample No. "NOTE"		Au ppb	Ag ppb
L 23+00 N	27+25 E	-2	30
	27+50	10	40
L 50+00 N	34+75 E	4	20

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Sample No. "M"		Au ppb	Ag ppb
L 49+00 N	17+00 E	16	960
	17+25	10	860
	17+50	14	710
	17+75	6	330
	18+00	8	500
	18+25	16	780
	18+50	6	600
	18+75	8	1000
	19+00	16	1650
	19+25	16	1600
	20+25	16	1440
	20+50	18	290
	20+75	22	160
	22+25	14	530
	22+50	4	540
	22+75	10	730
	23+00	22	1310
	23+25	16	2030
	23+50	98	3400
	23+75	88	8100
	24+00	16	460
	24+25	36	1650
	24+50	10	560
	24+75	16	1700
	25+00	24	530

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Sample No. "M"		Au ppb	Ag ppb
L 49+00 N	25+25 E	8	200
	25+50	4	240
	25+75	8	230
	26+00	48	160
	26+25	10	150
	26+50	12	260
	26+75	8	40
	27+00	16	20
	27+25	2	190
	27+50	8	270
	27+75	60	70
	28+00	16	80
	28+25	16	100
	28+50	12	80
	28+75	2	30
	29+00	4	80
	29+25	-2	70
	29+50	-2	60
	29+75	10	80
	30+00	4	120
	30+25	8	70
	30+50	4	120
	30+75	2	100
	31+00	4	110
	31+25	2	90

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Sample No. "M"		Au ppb	Ag ppb
L 49+00 N	31+50 E	72	100
	31+75	4	70
	32+00	38	90
	32+25	4	120
	32+50	4	100
	32+75	10	100
	33+00	4	70
	33+25	2	130
	33+50	2	120
	33+75	4	110
	34+00	8	240
	34+50	2	160
	34+75	2	100
	35+00	-2	100
L 48+00 N	17+00 E	8	740
	17+25	6	330
	17+50	14	1480
	17+75	8	540
	18+00	12	290
	18+25	6	150
	18+50	8	220
	18+75	10	300
	19+00	10	1060
	19+25	14	1010
	19+50	6	310

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Sample No. "M"			Au ppb	Ag ppb
L 48+00 N	19+75 E		10	240
	20+00		4	380
	20+25		6	170
	20+50		12	780
	22+00		8	1000
	22+25		8	900
	22+50		8	410
	22+75		8	260
	23+25		8	340
	23+50		24	1310
	23+75		54	930
	24+00		22	320
	24+25		12	890
	24+50		16	520
	24+75		10	1730
	25+00	(1)	32	380
	25+00	(2)	4	2400
	25+25		2	1260
	25+50		-2	790
	25+75		4	450
	26+00		2	1010
L 47+00 N	21+00 E		2	410
	21+25		8	300
	21+50		2	650
	21+75		4	430

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Sample No. "M"		Au ppb	Ag ppb
L 47+00 N	22+00 E	20	1860
	22+25	2	500
	22+50	10	3000
	22+75	8	230
	23+00	4	370
	23+25	6	150
	23+50	16	350
	23+75	8	360
	24+00	20	240
	24+25	24	680
	24+50	164	620
	24+75	2	280
	25+00	2	460
	25+25	4	860
	25+50	2	510
	25+75	4	430
	26+00	-2	330
	26+25	4	1060
	26+50	4	890
	26+75	4	720
	27+00	8	1280
	27+25	8	310
	27+50	-4	340
	27+75	2	210
	28+00	2	270

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Sample No. "M"			Au ppb	Ag ppb
L 47+00 N	28+25 E		8	520
	28+50		16	640
	28+75		4	160
	29+00		8	280
	29+25		4	160
	29+50		10	140
	29+75		4	170
	30+00		2	200
	30+25		-4	340
	30+50		4	300
	30+75		2	180
	31+00		2	170
	31+25		18	190
	31+50		2	210
	31+75		2	110
	32+00		8	400
	32+25		8	320
	32+50		8	400
	32+75		8	440
	33+00		-8	160
	33+25		2	170
	33+50		2	130
	33+75		2	110
	34+00		2	100
	34+25	(1)	2	80

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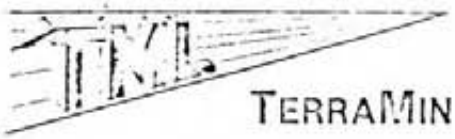

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Sample No. "M"		Au ppb	Ag ppb
L 47+00 N	34+25 E (2)	4	120
	34+50	4	130
	34+75	8	200
	35+00	-8	200
	35+25	2	190
	35+50	2	120
	35+75	-4	180
	36+00	4	220
L 46+00 N	17+00 E	12	2900
	17+25	24	2500
	17+50	6	340
	18+00	12	1160
	18+25	6	430
	18+75	14	840
	19+25	4	420
	19+50	32	790
	20+00	2	390
	20+25	12	490
	20+50	4	290
	21+00	4	400
	21+25	2	480
	21+50	2	460
	21+75	4	490
	22+00	2	240
	22+25	4	160

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Sample No. "M"		Au ppb	Ag ppb
L 46+00 N	22+50 E	2	340
	22+75	4	310
	23+00	-2	170
	23+25	4	160
	23+50	16	340
	23+75	-2	50
	24+00	-2	320
	24+25	-4	20
	24+50	-4	120
	24+75	-2	90
	25+00	-4	100
	25+25	-4	140
	25+50	-2	120
	25+75	-8	40
	26+00	-4	180
L 45+00 N	17+00 E	-2	400
	17+25	-2	310
	17+50	-2	560
	17+75	4	430
	18+00	20	620
	18+25	26	440
	18+50	10	350
	19+00	-2	70
	19+25	-2	310
	19+50	38	1560

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Sample No. "M"		Au ppb	Ag ppb
L 45+00 N	19+75	-2	720
	20+00	-2	530
	20+25	-18	1540
	20+50	10	1070
	20+75	4	190
	21+00	2	880
	21+25	-8	2000
	21+50	4	390
	21+75	2	210
	22+00	-2	350
	22+25	-2	210
	22+50	-2	180
	22+75	-2	40
	23+00	-2	50
	23+25	-2	100
	23+50	-2	140
	23+75	-2	130
	24+00	-2	120
	24+25	-2	170
	24+50	-2	70
	24+75	-2	70
	25+00	-2	80
	25+25	-2	280
	26+75	-2	270
	27+25	-2	20

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Sample No. "M"		Au ppb	Ag ppb
L 45+00 N	27+50 E	-2	30
	27+75	-2	30
	28+00	-2	70
	28+25	-2	70
	28+50	-2	100
	28+75	-2	110
	29+00	-2	150
	29+25	-2	140
	29+50	-2	60
	29+75	-2	70
	30+00	68	300
	30+25	-2	170
	30+50	-2	140
	30+75	-2	120
	31+00	-2	60
	31+25	-2	110
	31+50	-2	160
	31+75	-2	120
	32+00	-2	60
	32+25	-2	100
	32+50	-2	120
	32+75	-2	80
	33+00	-2	190
	33+25	-2	130
	33+50	-2	260

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Sample No. "M"		Au ppb	Ag ppb
L 45+00 N	33+75 E	-2	140
	34+00	-2	80
	34+25	-2	30
	34+50	-2	60
	34+75	-2	70
	35+00	14	140
	35+25	-2	60
	35+50	-8	160
	35+75	-2	70
	36+00	-2	70
L 34+12.5 N	14+87.5 W	32	620
	14+75	6	250
	14+62.5	136	170
	13+87.5	6	190
	13+75	36	420
	13+62.5	100	300
	10+12.5	-8	80
	10+00	16	160
	9+87.5	16	120
	7+12.5	2	230
	7+00	20	180
	6+87.5	2	180
L 34+00 N	14+87.5 W	32	170
	14+75	16	150
	14+62.5	6	350

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Sample No. "M"				Au ppb	Ag ppb
L 27+87.5	N	13+75	W	I.S.	
		11+87.5		268	1420
		11+75		2	620
		11+62.5		10	310
		9+12.5		-2	140
		9+00		-2	90
		8+87.5		-8	680
L 26+50	N	3+75	E	-2	450
		4+00		10	3600
		4+25		10	1590
		4+50		8	1380
L 26+25	N	4+00	E	36	780
L26+12.5	N	29+87.5	W	8	450
		29+75		-8	160
		29+62.5		-4	220
		25+62.5		64	170
		25+50		-2	760
		25+37.5		-2	120
		11+87.5		-8	240
		11+75		-4	400
		11+62.5		-10	1850
L 26+00	N	29+87.5	W	2	140
		29+75		-8	200
		29+62.5		40	80
		25+62.5		-2	90

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Sample No. "M"				Au ppb	Ag ppb
L 26+00	N	25+50	W	-4	40
		25+37.5		-2	40
		11+75		-4	540
		11+62.5	1	2	470
		11+61.5	2	-10	1550
		4+00	E	104	380
		4+12.5		52	360
L 25+87.5	N	29+87.5	W	-8	200
		29+75		-8	280
		29+62.5		-4	140
		25+62.5		52	110
		25+50		-2	80
		25+37.5		-4	120
		11+75		-4	640
		11+62.5		-12	-60
L 25+75	N	9+00	E	-2	190
L 25+50	N	3+75	E	-2	240
		4+00		-2	590
		4+25		-2	540
		4+50		-2	1250
L 24+50	N	5+00	E	-4	1600
		5+25		-2	510
		5+50		36	190
		5+75		-2	190
		10+75		-8	2680

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Sample No. "M"		Au ppb	Ag ppb
L 24+50 N	11+00 E	-2	400
	11+25	-8	4920
	11+50	-2	390
	11+75	6	190
	13+00	12	280
	13+25	-8	2840
	13+50	-4	540
	13+75	-2	230
	14+00	-2	220
	14+25	-2	210
	14+50	-2	90
	14+75	24	3100
L 24+25 N	5+25 E	8	1960
	11+25	10	390
	13+50	-10	1000
	19+00	-2	240
L 24+12.5 N	27+12.5 W	640	480
	27+00	88	4680
	26+87.5	34	470
	11+62.5	2	280
	11+50	14	190
	11+37.5	10	260
	10+12.5	-4	180
	10+00	-4	80
	9+87.5	-8	560

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Sample No. "M"		Au ppb	Ag ppb
L 24+00 N	27+12.5 W	72	740
	27+00	1376	1020
	26+87.5	56	200
	11+87.5	-8	-40
	11+62.5	12	220
	11+50	6	240
	11+37.5	10	320
	10+12.5	-4	100
	10+00	-4	-20
	5+12.5 E	26	510
	5+25	-8	1160
	5+37.5	-4	800
	11+12.5	8	2500
	11+25	-8	4960
	11+37.5	2	210
	13+37.5	-2	160
	13+50	-8	2320
	13+62.5	-8	1640
	13+87.5	N.S.	
	14+00	-8	4000
	14+12.5	6	270
L 23+87.5 N	27+12.5 W	336	1700
	27+00	244	3500
	26+87.5	122	10700
	11+62.5	78	350

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Sample No. "M"			Au ppb	Ag ppb
L 23+87.5 N	11+50	W	14	260
	11+37.5		16	500
	10+12.5	1	-2	130
	10+12.5	2	8	150
	10+00		8	80
	9+87.5		-2	120
L 23+75 N	5+25	E	40	2000
	11+25		12	380
	13+50		-4	480
	14+00		-16	5300
L 23+50 N	4+25	E	24	1730
	4+50		36	1970
	4+75		38	2020
	5+00		48	3880
	5+25		48	3400
	5+50	1	386	1020
	5+50	2	112	2460
	5+75	1	36	2030
	5+75	2	16	600
	6+00		14	660
	6+25	1	6	2060
	6+25	2	-8	1680
	6+50	1	14	230
	6+50	2	4	380
	6+75		-8	2120

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Sample No. "M"		Au ppb	Ag ppb
L 23+50 N	7+00 E	-2	250
	7+25	-2	260
	7+50	-4	740
	7+75	6	180
	8+00	-8	1240
	8+25	-2	660
	8+50	6	350
	8+95	-2	150
	9+00	-4	300
	9+25	4	240
	9+50	2	330
	9+75	-2	180
	10+00	8	220
	10+25	52	130
	10+50	16	290
	10+75	16	940
	11+00	6	3700
	11+25	-2	270
	11+50	22	150
	11+75	-2	100
	13+00	4	200
	13+25	4	390
	13+50	-4	1640
	13+75	-2	750
	14+00	-2	750

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Sample No. "M"			Au ppb	Ag ppb
L 23+50 N	14+25	E	-2	140
	14+50		2	130
L 23+25 N	4+75	E	24	1920
	5+75		38	3200
	6+00		30	1150
	6+50		14	380
	7+75		24	870
	8+75		2	430
	9+75		-2	360
	10+00		-2	460
	10+75		10	9500
L 23+00 N	4+62.5	E	-2	220
	4+75		56	2380
	4+87.5		24	1260
	5+62.5		42	1850
	5+75		48	1510
	5+87.5		96	2700
	6+00		28	6900
	6+12.5		40	2900
	6+37.5		2	410
	6+50		120	500
	6+62.5		80	370
	7+62.5		108	700
	7+75		8	4930
	7+87.5		40	1600

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Sample No.		Au ppb	Ag ppb
L 23+00 N	8+62.5 E	20	490
	8+75	8	5300
	8+87.5	6	1550
	9+62.5	8	600
	9+75	16	32220
	9+87.5	20	6530
	10+00	46	12100
	10+12.5	96	520
	10+62.5	18	3470
	10+75	10	1600
	10+87.5	8	8900
L 22+75 N	4+75 E	82	1430
	5+75	264	3730
	6+00	40	4530
	6+50	2	130
	7+75	-2	600
	8+75	4	2600
	9+75	48	15200
	10+00	-2	470
	10+75	-2	520
L 22+50 N	4+25 E	2	240
	4+50	-2	370
	4+75	-2	160
	5+00	16	430
	5+25	-8	2040

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

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Sample No. "M"			Au ppb	Ag ppb
L 22+50 N	5+50	E	34	1130
	5+75		82	2000
	6+00		46	1620
	6+25		26	580
	6+50	(1)	8	1240
	6+50	(2)	58	190
	6+75	(1)	158	320
	6+75	(2)	18	130
	7+00	(1)	8	170
	7+00	(2)	8	280
	7+25		8	150
	7+50		48	800
	7+75		66	400
	8+00		38	780
	8+25		-2	370
	8+50		-4	560
	8+75		40	9330
	9+00		72	8000
	9+25		536	420
	9+50		42	2400
	9+75		72	1850
	14+25		8	1640
	14+50		4	1180
	14+75		-2	850
	15+00		6	140

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Sample No. "M"			Au ppb	Ag ppb
L 22+50 N	15+25	E	2	110
L 22+25 N	7+00	E	24	680
	7+25		66	350
	7+50		44	240
	7+75		706	210
	8+25		26	430
	9+00		42	6500
	9+25		174	1120
	14+75		2	400
L 22+00 N	6+87.5	E	38	370
	7+00		146	430
	7+12.5		20	100
	7+25		184	170
	7+37.5		154	610
	7+50		1040	840
	7+62.5		144	290
	7+75		190	250
	7+87.5		22	220
	8+12.5		96	600
	8+25		120	1950
	8+37.5		368	3470
	8+62.5		576	5040
	9+00		48	6400
	9+12.5		34	2800
	9+25		40	120

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Sample No. "M"		Au ppb	Ag ppb
L 22+00 N	9+37.5 E	176	1180
	14+62.5	-4	400
	14+87.5	6	430
L 21+75 N	7+00 E	24	470
	7+25	8	340
	7+50	5160	490
	7+75	18	490
	8+25	76	1800
	8+50	N.S.	
	9+00	22	6130
	9+25	8	440
	14+75	14	560
L 21+50 N	6+50 E	114	540
	6+75	68	420
	7+00	32	700
	7+25	2	40
	7+50	20	240
	7+75	42	880
	8+00	24	1430
	8+25	800	2000
	8+50	28	520
	8+75	40	1580
	9+00	-4	140
	9+75	14	330
	14+25	6	430

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ANALYTICAL REPORT

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Client Project GR-BC-7

Sample No. "M"			Au ppb	Ag ppb
L 21+50 N	14+50	E	52	640
	14+75		242	560
	15+00		2	640
	15+25		16	480
L 21+25 N	8+50	E (1)	34	970
	8+50	(2)	32	610
	11+25		-8	5720
L 21+00 N	8+37.5	E	172	400
	8+50		94	590
	8+62.5		56	1180
	8+87.5		38	450
	11+12.5		24	190
	11+25		16	10800
	11+37.5		8	160
	21+25		48	440
L 20+75 N	8+50	E	304	640
	11+25		18	6400
L 20+50 N	3+75	E	10	220
	4+00		-2	90
	4+25		32	460
	4+50		52	880
	5+25		62	220
	5+75		10	180
	6+00		102	290
	6+25	(1)	20	760

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Sample No. "M"			Au ppb	Ag ppb
L 20+50 N	6+25 E	(2)	2	420
	6+50		80	700
	6+75		44	2500
	7+00	(1)	12	250
	7+00	(2)	110	1370
	8+00		32	750
	8+25		234	640
	8+50		24	600
	8+75		14	240
	9+00		50	310
	9+25		16	350
	9+50		112	280
	9+75		24	440
	10+00		78	390
	10+25		62	330
	10+75		4	230
	11+50		16	360
L 20+25 N	4+25 E		22	1350
	4+75		238	4270
	6+25		48	1520
	6+50		82	590
	9+75		76	330
L 20+00 N	4+25 E		112	720
	4+37.5		1056	1240
	4+75		302	2750

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-332-B

Date

Client Project GR-BC-7

Sample No. "M"		Au ppb	Ag ppb
L 20+00 N	6+12.5 E	32	990
	6+25	144	3200
	6+37.5	40	800
	6+50	8	360
	6+62.5	8	550
	9+62.5	8	90
	9+75	78	390
	9+87.5	68	260
	11+12.5	8	480
	11+25	12	140
	11+75	144	250
L 19+75 N	6+25 E	148	1500
	6+50	16	440
	9+75	20	250
L 19+50 N	5+00 E	32	320
	5+25	14	190
	5+75	100	450
	6+00	20	800
	6+25	24	840
	6+50	6	520
	6+75	14	940
	7+00	24	640
	9+25	12	280
	9+50	2	360
	9+75	2	220

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

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Sample No. "M"		Au ppb	Ag ppb
L 19+50 N	10+00 E	-2	110
	10+25 (1)	4	160
	10+25 (2)	-2	110
	10+75	-2	300
L 18+50 N	9+50 E	-2	220
	10+00	-14	360
	10+50	-4	160
L 18+25 N	10+00 E	-8	960
L 18+12.5 N	16+62.5 W	-2	120
	16+37.5	12	5400
	16+30	40	5600
	15+37.5	8	530
	15+25	168	760
	15+12.5	18	620
	15+00	226	410
	14+87.5	-8	240
L 18+00 N	16+62.5 W	30	90
	16+50	-4	260
	16+37.5	-10	580
	15+37.5	2	60
	15+25	12	160
	15+12.5	22	100
	15+00	-2	130
	14+87.5	32	280
	10+75 E	8	370

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Sample No. "M"			Au ppb	Ag ppb
L 17+87.5 N	16+62.5	W	-8	1040
	16+50		2	90
	16+37.5		32	80
	15+37.5		24	240
	15+25		32	410
	15+12.5		164	200
	15+00		36	150
	14+87.5		348	220
L 17+75 N	10+75	E	10	190
L 17+50 N	9+50	E	-2	390
	9+75		4	760
	10+00		32	2300
	10+25		-2	130
	11+00		-2	370
	11+25		4	1060
L 16+50 N	8+75	E	I.S.	
	9+00		12	410
	9+25		40	240
	9+50		-4	1560
	9+75		-4	200
	10+25		-4	140
	10+50		-2	70
	10+75		2	160
L 16+25 N	9+25	E	26	410
	10+00		4	640

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Sample No. "M"		Au ppb	Ag ppb
L 16+25 N	10+25 E	-2	190
L 16+12.5 N	12+12.5 W	62	310
	12+00	16	320
	11+87.5	24	300
L 16+00 N	12+12.5 W	12	1250
	12+00	8	1870
	11+87.5	16	220
	9+12.5 E	6	480
	9+25	166	980
	10+00	8	260
	10+12.5	-2	300
	10+25	-2	290
	10+37.5	-2	50
L 15+87.5 N	12+12.5 W	-2	190
	12+00	-4	260
	11+87.5	86	270
L 15+75 N	10+00 E	-8	1040
	10+25	22	680
L 15+50 N	8+75 E	230	1850
	9+50	-8	240
	10+00	6	200
	10+25	4	310
	10+50	-2	40
	10+75	4	70
L 14+50 N	9+50 E	130	190

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Sample No. "M"			Au ppb	Ag ppb
L 14+50 N	9+95	E	16	270
	10+00		16	360
	10+50		162	130
L 14+25 N	10+00	E	-8	400
L 14+00 N	9+87.5	E	44	140
	10+00		34	220
	10+12.5		64	450
	10+25		50	2100
L 13+75 N	10+25	E	114	1850
L 12+50 N	7+50	E	8	210
	7+75		14	980
	8+00		20	820
	8+25		386	1500
	8+50		8	180
L 12+25 N	8+00	E	8	160
L 12+12.5 N	16+87.5	W	4	150
	16+75		16	340
	16+62.5		4	130
	12+87.5		-10	200
	12+75		-8	680
	12+62.5		-4	520
	12+37.5		-12	2880
	12+25		8	270
	12+12.5		8	4680
L 12+00 N	16+87.5	W	-2	530

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Date

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Sample No. "M"			Au ppb	Ag ppb
L 12+00 N	16+75	W	4	300
	16+62.5		-2	230
	12+87.5		I.S.	
	12+75		I.S.	
	12+62.5		512	500
	12+37.5		-4	180
	12+25		24	380
	12+12.5		-10	250
	7+87.5		26	610
	8+00		240	1800
	8+12.5		44	500
L 11+87.5 N	16+87.5	W	12	360
	16+75		32	190
	16+62.5		14	180
	12+87.5		I.S.	
	12+75		50	500
	12+62.5		16	400
	12+37.5		104	280
	12+25		324	220
	12+12.5		-16	5670
L 11+75 N	4+25	E	610	3470
	7+50		-2	160
	7+75		16	220
	8+00	(1)	118	270
	8+00	(2)	320	880

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Sample No. "M"			Au ppb	Ag ppb
L 11+75 N	8+25	E	14	250
	8+50		-8	520
L 11+50 N	14+00	E	20	1650
	14+25		2	70
	14+50		8	1040
L 11+00 N	12+12.5	E	66	810
	12+25		22	600
	12+37.5		32	730
	12+62.5		68	520
	12+75		64	520
	12+87.5		20	300
	13+87.5		16	580
	14+00		8	440
	14+12.5		6	270
L 10+75 N	12+25	E	8	1000
	14+00		-4	1860
L 10+50 N	3+75	E	64	1210
	4+00		-4	580
	4+25		308	1580
	4+50		14	690
	4+75		52	1660
	13+00		-8	720
	13+25		-8	840
	14+00		16	1600
	14+25		36	3100

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Client Project GR-BC-7

Sample No. "M"		Au ppb	Ag ppb
L 10+50 N	14+50 E	16	2670
L 10+25 N	4+25 E	-8	1080
L 10+12.5 N	12+62.5 W	266	440
	12+50	8	390
	12+37.5	2	400
	12+25	200	200
	12+12.5	-2	370
L 10+00 N	12+62.5 W	8	680
	12+50	30	410
	12+37.5	26	820
	12+25	80	810
	12+12.5	4	460
	4+12.5 E	14	210
	4+25	-4	320
	4+37.5	8	400
L 9+87.5 N	12+62.5 W	16	640
	12+50	30	1230
	12+25	-2	190
	12+12.5	16	60
L 9+50 N	3+75 E	-8	280
	4+00	8	410
	4+25	32	620
	4+50	10	970
	4+75	2	3870
L 8+87.5 N	12+37.5 W	10	970

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Sample No. "M"			Au ppb	Ag ppb
L 7+50 N	13+50	E	416	5470
	13+75		260	5400
	14+00		120	2840
	15+50		30	390
	15+75		16	780
	16+00		-2	90
	16+25		-2	220
	16+50		-2	310
	16+75	(1)	4	150
	16+75	(2)	-2	150
L 7+25 N	15+50	E	-4	140
L 7+00 N	15+37.5	E	2	320
	15+50		2	120
	15+62.5		-2	290
	16+12.5		10	190
	16+25		-2	200
	16+37.5		-2	180
L 6+75 N	15+50	E	-2	70
	16+25		-2	660
L 6+50 N	0+00		28	80
	0+25	E	334	260
	0+50		-2	100
	0+75		-4	120
	1+00		24	70
	15+50		2	340

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Sample No. "M"		Au ppb	Ag ppb
L 6+50 N	15+75 E	4	490
	16+00	2	540
	16+25	4	480
	16+75	-2	630
L 6+25 N	0+50 E	264	220
L 6+00 N	0+37.5 E	8	440
	0+50	8	160
	0+62.5	8	100
L 5+50 N	0+00	108	370
	0+25 E	166	120
	0+50	52	150
	0+75	112	130
	1+00	224	240
L 4+50 N	13+75 E	26	2050
	14+50	8	1250
L 4+25 N	13+50 E	16	2120
	14+50	12	920
L 4+00 N	13+37.5 E	176	1380
	13+50	40	2070
	13+62.5	362	2900
	14+37.5	48	3200
	14+50	234	2800
	14+62.5	26	2530
L 3+74 N	13+50 E	42	3500
L 3+50 N	13+25 E	522	2370

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Sample No. Rock		Au ppb	Ag ppb
Belle Trench F	5-6 Meter	58	2600
	6-7	20	1940
	7-7.6	10	630
Belle Trench G	0-1	54	1040
	1-2	76	4000
Belle Trench H	0-1	230	3800
	1-2	880	6800
	2-3	304	4800
	3-3.7	246	6600
Belle Trench T	0-1	350	3700
Belle Trench I	1-2	940	10100
	2-3	1200	10500
	3-4	172	8600
	4-5	202	8700
Belle Trench A Hanging Wall		22	1160
GW-M-01		16	320
02		58	380
03		36	310
04		2	200
05		20	230
06		34	1670
07		112	3000
08		4	470
08 a		-2	280
10		6	240

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TERRAMIN RESEARCH LABS LTD.

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Sample No. Rock	Au ppb	Ag ppb
GW-M-11	6	270
12	4	260
13	2	200
GW-R-01	-2	230
02	-2	180
03	2	190
04	4	210
07	8	1210
07 a (1) ?	14	1230
07 a (2) ?	14	650
08	24	340
09	16	1500
10	72	490
11	4	200
GW-S-01	6	270
02	6	320
03	6	950
GW SCRCC	12	1200
RMR1	2	190
RMR2	-2	260
SR-MR-1	2	230
SR-MR-2	8	190
M .. 3+50 N 13+00 E	6	250
L 8+50 N 12+25 E	8	750
L 8+75 N 12+25 E	72	2900

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To: TAIGA CONSULTANTS LTD.
Suite 100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2
Attn: Gordon Wilson

File No. 25618
Date December 2, 1983
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
BC		
-01	Trace	Trace
-02	.002	Trace
- 3	.002	Trace
DD		
J-R-01	.002	.06
M-R-06	.008	Trace
F-9-8-2 O.C.	.008	Trace
-9-11-1	.010	.04
-9-18-1	Trace	.08
-9-18-2	.004	.04
-9-18-3	.008	.12
-9-19-1	.002	Trace
-9-19-2-B	.016	2.26
-9-19-3	.006	.34
-9-19-4	Trace	.22
-9-19-5	Trace	Trace
-9-19-6	.002	.06
-9-20-1	Trace	Trace
-9-20-2	.014	1.02
-9-20-3	.002	.10

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

R ects Retained one month.
PUlps Retained one month unless specific arrangements made in advance.

D. Enders

To: TAIGA CONSULTANTS LTD
Suite 100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2
Attn: Gordon Wilson

File No. 25618
Date December 2, 1983
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
-9-20-4	.002	Trace
-9-20-5	Trace	Trace
GW		
M-14a	.002	Trace
M-14b	Trace	Trace
RB		
-1L6N 8+50E	.010	Trace
2	.006	.12
3	.002	Trace
J-2	Trace	Trace
J-3	Trace	.08
J-4	Trace	.34
RBJ-R-1	Sample Not Received	
RGB-J-R-1	.004	Trace
S		
8-18-7	.002	.06
9-7-3b O.C.	Trace	.04
9-7-5	Trace	Trace
9-8-4	Trace	Trace
9-8-5	Trace	Trace
9-9-5	.012	.52

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
Pulps Retained one month unless specific arrangements made in advance

D. Enders

To: TAIGA CONSULTANTS LTD.
Suite 100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2
Attn: Gordon Wilson

File No. 25618
Date December 2, 1983
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
9-18-1	.008	.06
9-18-2	.042	.42
9-18-3	.006	.30
9-18-4	.018	1.38
9-18-5 1+75N 850E	.004	.10
9-18-5 200N 1075E	.052	3.78
9-18-8	.002	.04
9-19-1	.006	.56
9-19-2	.008	.10
9-19-3	.022	3.12
9-19-4	.028	2.34
9-19-5	.064	4.34
9-19-6	.030	.10
9-19-7	.008	.02
9-20-1	.006	.02
9-20-2	Trace	Trace
9-20-3	.004	Trace
9-20-4	.006	Trace
9-20-5	.298	.25
9-20-6	.010	Trace
9-20-7	.014	Trace

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

jects Retained one month.
—lps Retained one month unless specific arrangements made in advance.

D. Enclos

To: TAIGA CONSULTANTS LTD
Suite 100, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2
Attn: Gordon Wilson

File No. 25618
Date December 2, 1983
Samples Rock

Certificate of ASSAY

LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
9-21-1	.016	.50
9-21-2 S	Trace	Trace
9-21-3	.068	4.16
9-21-4	.414	.67
9-21-5	.004	Trace
9-22-1	.006	Trace
9-22-2	.002	.02
9-22-3	.004	Trace
9-22-4	Trace	.02
6+25E 22+25N	Trace	Trace
L16N 8+37.5E.	.292	Trace
L20+75E 50+15N	.002	.08
L45E 25+50N	.006	.02
L50N 21+75E	.010	.10
L50N 29+50E	.002	.04

I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

D. Enclose

:jects Retained one month.

Pulps Retained one month unless specific arrangements made in advance.

APPENDIX III

Rock Descriptions

SAMPLE DESCRIPTIONS

S-9-18-1 10+60N/7+25E	boulders	slightly argillic altered medium-grained white quartz with minor malachite staining.
S-9-18-2 8+65N/9+50E		fine-grained vuggy (½%) quartz with slight hematite banding; vugs coated with fine-grained crystals of clear quartz; trace diss pyrite.
S-9-18-3 5+50N/10+75E	boulders	buff-coloured quartz breccia pieces (80%) cemented by white quartz. The buff quartz has up to 0.1% pyrite casts; the white quartz has crystalline quartz within vugs.
S-9-18-4 4+90N/10+75E	boulders	hematite-stained vuggy (1%) white quartz with fine-grained crystalline glassy quartz coating vugs; 0.3% pyrite casts.
S-9-18-5 1+75N/8+85E	boulder	vuggy (0.2%) fine-grained white quartz.
S-9-18-5 2+00N/10+75E	boulders	a) grey-blue banded quartz vein with fine pyrite disseminations in the vein and within small quartz crystal-lined vugs <0.1%; along one edge of the vein is a pink potassic rim. b) potassic, propylitic altered porphyry andesite with ½% disseminated pyrite; quartz-filled fractures.
S-9-18-7 5+50N/7+50E		a) propylitic, potassic altered andesite, Py clasts. b) argillic, potassic altered quartz(?), Py clasts.
S-9-18-8 16+40N/4+85E	boulder	highly manganese-stained, siliceous, trachy-andesite(?) with 0.1% fine-grained disseminated pyrite and ~1% pyrite cast.
S-9-19-1 5+50N/1+40E	outcrop	slightly potassic altered amphibole, feldspar porphyry andesite with minor malachite and a trace of azurite.
S-9-19-2 9+00N/4+00E	outcrop	porpylitic, potassic altered andesite with epidote in small vugs and ½% diss very fine Py.
S-9-19-3 10+00N/4+25E	outcrop	slightly propylitic and very slightly potassic altered, siliceous rock with 0.1% very fine-grained disseminated pyrite.
S-9-19-4 0+75N/8+15E	boulder	a) pinkish-buff aphanitic quartz with hematite coating on fracture surfaces. b) vuggy wallrock breccia (10%) cemented by white quartz (85%); the 5% vugs have small quartz crystals growing within.

S-9-19-5 0+30N/10+25E	broken outcrop	possible healed quartz vein breccia cemented by quartz. The breccia pieces are large (to 3 cm^2) with 5% Py casts. The rock is also vuggy 1%.
S-9-19-6 10+05N/7+20E	boulder	very fine-grained argillic altered blue-grey quartz.
S-9-19-7 11+50N/7+60E	boulders	buff-coloured, fractured, very fine-grained quartz; limonite along fractures.
S-9-20-1 24+15N/9+50E	boulders	a) dark to light grey mottled, vuggy (2%) fine-grained quartz; limonite in vugs. b) argillic altered white quartz.
S-9-20-2 24+35N/7+50E	frost heaves	slightly sheared white quartz with limonite along fracture planes; up to 2% medium-grained disseminated pyrite and pyrite casts.
S-9-20-3 24+70N/6+50E		silicified plagioclase porphyry andesite with ½% disseminated fine-grained pyrite.
S-9-20-4 18+10N/8+50E	boulder	slightly sheared, argillic altered white quartz with limonite coatings; vugs along possible shear planes.
S-9-20-5 16+75N/8+25E	boulder	a) slightly argillic altered fine-grained white vein quartz with very minor potassic alteration; some small breccia pieces of wallrock. b) very siliceous fine-grained andesite with 1% fine-grained disseminated pyrite.
S-9-20-6 9+00N/12+50E	outcrop	a) medium-grained blue-grey and glassy white quartz with 0.4% fine-grained pyrite. b) very siliceous, f.g. andesite breccia cemented by a dk.grey aphanitic, very siliceous material. Within the andesite there is 0.2% f.g. diss Py; in the aphanitic material there is a trace of pyrite.
S-9-20-7 23+70N/10+85E	boulder	a) silicified, argillic altered, slightly potassic altered rock with 1% very f.g. disseminated pyrite. b) fine-grained grey quartz.
S-9-21-1 1+00N/13+75E	boulder	argillic altered f.g. white quartz with m.g. glassy quartz filling vugs or fractures. <0.1% f.g. disseminated pyrite.
S-9-21-2 0+75N/12+15E	outcrop	fine-grained vuggy grey quartz with up to ½% f.g. to m.g. disseminated pyrite.

S-9-21-3 6+20N/10+90E	boulder	grey, fine-grained vuggy quartz vein material with hematite and limonite staining.
S-9-21-4 13+00N/2+75E	boulder	a) siliceous, f.g. grey andesite(?) with potassic altered feldspar (~0.2%) and very f.g. diys Py (0.1%). b) white m.g. quartz with 1% vugs limonite stained and trace v.f.g. pyrite.
S-9-21-5 18+50N/8+65E	boulders	argillic altered white f.g. quartz with up to 1% c.g. pyrite casts; no sulphides visible.
S-9-22-1 20+00N/16+50E	boulders	vuggy white quartz with some hematite stain and some pyrite casts.
S-9-22-2 25+00N/5+25E	boulder	f.g. grey-blue quartz with ½% v.f.g. diss Py.
S-9-22-3	boulders	slightly argillic altered vuggy quartz with glassy quartz filling some of the vugs; limonite staining.
S-9-22-4	boulders	white f.g. quartz; fractures healed by m.g. glassy quartz.
F-9-18-3 50 m SE of 8+00N/11+75E	outcrop	m.g. quartz with limonite along fractures and quartz crystals in larger fractures; trace f.g. disseminated pyrite.
F-9-19-1 25 m NW of 3+00N/7+25E	outcrop	slightly porpylitic altered and potassic altered rock with 0.2% fine-grained disseminated pyrite.
F-9-19-3 60 m W of 20+00N/5+00E		potassic altered, siliceous andesite(?) with 0.3% fine-grained disseminated pyrite.
F-9-19-4 10 m SW of 20+00N/5+00E		altered rock mainly limonite (weathering) K-spar epidote and quartz, 0.5% pyrite clasts.
F-9-20-3	outcrop	a) f.g. blue-grey quartz with up to 2 cm phenocrysts (phenoblasts?) of feldspar (0.5%) and 0.3% f.g. disseminated pyrite. b) extremely weathered argillic altered quartz breccia coated by limonite, hematite; manganese staining.
F-9-20-5 15 m E of 23+00N/13+50E	boulders	argillic altered white quartz with 1% medium-grained pyrite casts.

M083 22+00N,9+00E	boulders	very siliceous clay altered rhyolite with diss pyrite throughout; surface rusty stained.
22+00N,9+37.5E	boulder	very rusty, moderately silicified and clay altered "rhyolite" or trachyandesite.
22+00N,9+50E	boulder	very rusty weathered, moderately silicified and albitized trachyandesite; minor pyrite disseminated throughout.
22+50N,11+25E	gravel	as above with more intense orange-clay alteration.
22+50N,11+50E	boulder	very rusty weathering, siliceous rock, probably andesite remnant that has undergone intense silicification and albite alteration.
22+50N,11+75E	boulder train	fragments of rusty weathered and generally very siliceous, medium-grained trachyandesite.
22+00N,13+50E		rust altered, moderately siliceous, pyritic, medium- to fine-grained trachyandesite.
50+00N,20+50E		very siliceous, rust altered float rock.
45+00N,25+50N		intensely rust altered, silicified tuff(?) float rock.
R-01 6+00N,8+50E	float	very siliceous, quartz-rich, rust altered rhyolite.
RR-03	float	rusty, intensely silica altered, with abundant quartz in stringers.
R-02	float	rusty, moderately clay altered and silicified, buff coloured on fresh surface.
BC-01	boulder	buff coloured, moderately silicified tuff (rhyolite?)
BC-02	float	very siliceous (rhyolitic) tuff.
BC-03 47+50N,21+00E		very rusty weathering, moderately hematized and chlorite altered trachyte.
50+00N,31+75E		silicified, hematite altered trachyte remnant; brecciated.
50+15N,20+75E	outcrop	completely silicified, rust altered, and brecciated.

GW-B-04		quartz-rich, silicified and clay altered trachyandesite, rust altered
16+00N,8+37.5E		buff-coloured, clay altered and moderately silicified quartz-feldspar porphyry (quartz 20% visible).
22+25N,6+25E		rusty and orngе-to-buff weathered, clay altered quartz-porphyry; very siliceous.
DD-M-R-06 6 m 54° N of 10+00N,7+00E		3 samples of intensely silicified material, 90-98% silica, rust stained orange-clay altered trachyte.
21+50N,10+00E	talus	white bull quartz and highly silicified, rusty weathered and clay altered dacite(?).
22+25N,9+25E	fragments and boulders	fragments rusty and sub-angular. 3 samples of highly silicified and clay altered trachyandesite(?) with pervasive orange on rust weathering.
15+00N,15+50E	boulder trains	buff-coloured, moderately silicified tuff.
15+00N,15+62.5E	boulder field	white quartz breccia with inclusion to 2 cm of andesite.
21+00N,23+75E	boulder field	white quartz with chlorite-coated fracture surfaces.
GW-M-01 12+50N,13+10W	boulder	rusty quartz-feldspar porphyry with 1% pyrite disseminations and very minor chalcopyrite.
GW-M-02	boulders	rusty, clay altered quartz-feldspar porphyry with 1% disseminated pyrite.
GW-M-03 16+00N,13+50E		clay altered quartz-feldspar porphyry, very minor disseminated pyrite.
GW-M-04 12m N of 17+00N,13+65E	float	intensely silicified feldspar porphyry containing pyrite to 1%.
GW-M-05	float	well silicified feldspar porphyry, moderately clay altered with rust-stained fractures.
GW-M-06	outcrop	grey feldspar porphyry, weakly epidotized and chloritized; hematite alteration of feldspar is strong throughout; sheared and intensely fractured sections are silicified and weakly mineralized with pyrite, galena, chalcopyrite.

Mets

GW-M-07	float	quartz samples, rust-stained and brecciated severely.
GW-M-08	outcrop	grey, medium-grained, highly fractured trachyandesite; propylitically altered.
GW-M-09	outcrop	pink, hematite altered trachyte.
GW-M-10	boulder	quartz sample, rust-stained and brecciated.
GW-M-11	outcrop	highly fractured, siliceous and pervasively clay altered rock cut by quartz seams; mineralized by pyrite to 5%.
GW-M-12	outcrop	bleached, silicified trachyte porphyry; rust-stained with disseminated pyrite to 2%.
GW-M-13	boulder	pervasively clay altered tuqf and quartz.
GW-M-14a	outcrop	Golden Furlong. quartz, brecciated, completely silicified rock.
GW-M-14b	boulder	white to buff quartz.

APPENDIX IV

GEOLOGICAL AND GEOCHEMICAL REPORT

Mets 1 and 2; Belle 1 and 2 Mineral Claims

Lat. 57°27'N Lat. 57°24'N
Long.127°22'W Long.127°07'W

N.T.S. 94E/6E+W

Liard and Omineca Mining Divisions

for

GOLDEN RULE RESOURCES LTD.

Calgary, Alberta

by

R. K. Netolitzky, M.Sc., P.Geol.

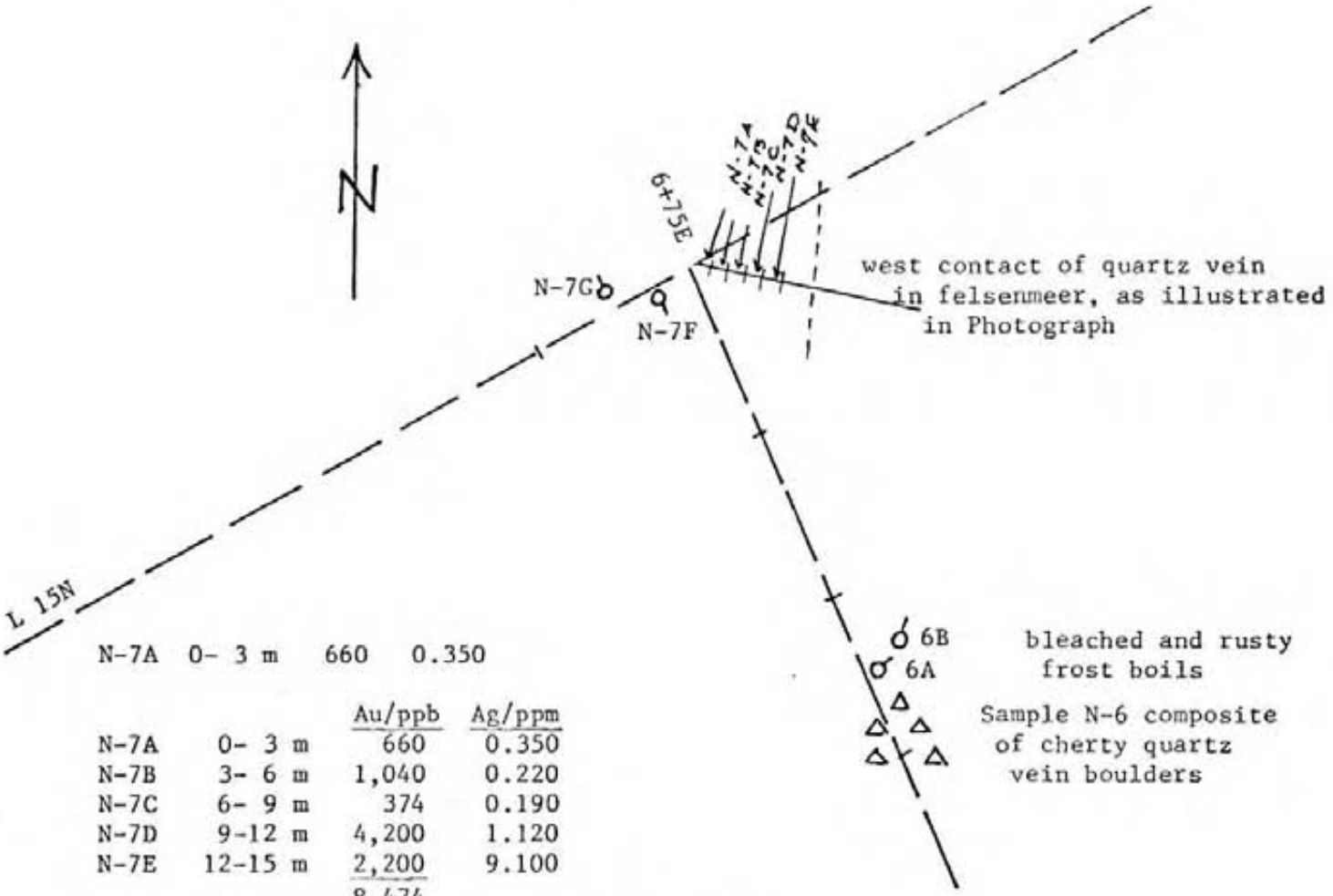
TAIGA CONSULTANTS LTD.
#100, 1300 - 8th Street S.W.
Calgary, Alberta T2R 1B2

September 20, 1983

TABLE OF CONTENTS

DISCUSSION OF RESULTS

Anomalous precious metal values are evident from many of the samples collected. On the Mets claims, the most notable results were obtained from Sample N-4B and the N-7 series of samples. The setting for the N-7 series is illustrated below, with the sample locations shown on Photograph



N-7A 0- 3 m 660 0.350

		Au/ppb	Ag/ppm
N-7A	0- 3 m	660	0.350
N-7B	3- 6 m	1,040	0.220
N-7C	6- 9 m	374	0.190
N-7D	9-12 m	4,200	1.120
N-7E	12-15 m	2,200	9.100
		8,474	

avg. { 1,695 ppb / 0.05 oz/ton } over 15 metres

SAMPLE DESCRIPTIONS			Au ppb	Ag ppb
Mets claims				
N-1	Fracture zone filling, dense glassy quartz, trace sulphides, green tinge. No open spaces, large intergrown quartz crystals.		56	1,080
N-2	Vein, dense fracture filling, a few vugs quartz is opaque wallrock fragments are silicified and propylitized. Trace pyrite and trace disseminated galena.		40	4,400
N-3	Samples from fracture zone with quartz vein filling:			
N-3A	A few vugs lined with quartz crystals, single-stage quartz alteration, flooded silica		102	3,900
N-3B	Drusy quartz crystals with fine disseminated pyrite, porpylitized and silicified		60	1,900
N-3C	Wallrock, epidote, unstable biotite, advanced argillic alteration.		72	6,800
N-4A	Vein, epithermal textures, lots of vugs lined with quartz crystals, drusy quartz not dense, appears single-stage		26	2,500
N-4B	Crushed and invaded vein, small drusy quartz stained red, hematite weathered pyrites, most of the pyrite is in fragments. The sulphide-rich propylitized wallrock is silicified.		2,000	14,500
N-6 composite	This sample is composed of a composite of cherty quartz from scattered boulders.		146	180
N-6 A + B	These are soil samples collected from rusty frost boils in close proximity to the boulders sampled in N-6		*	*
N-7A to N-7E	These are a series of chip samples of broken talus which I believe to represent a significant vein virtually in situ. The samples represent composite chips collected over 3m intervals, over a total width of 15m. This could represent close to the true width of the vein.	A	660	350
		B	1,040	220
		C	374	190
		D	4,200	1,120
		E	2,200	9,100

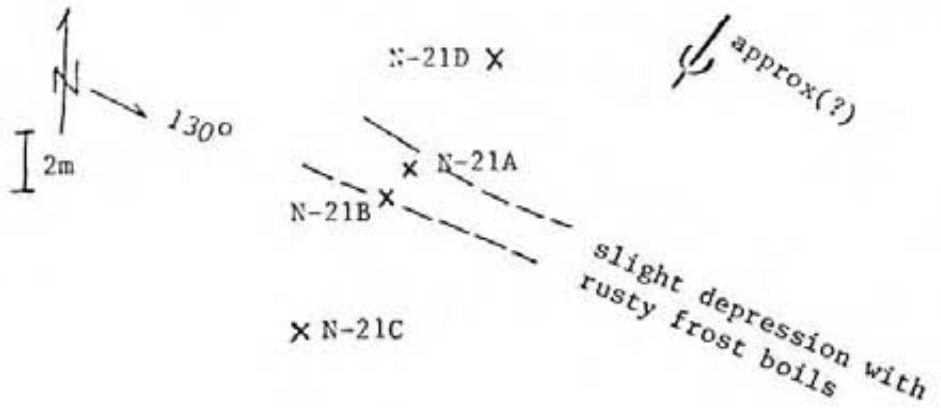
* soil samples, see page 4

		Au ppb	Ag ppb
N-7F and N-7G	These represent frost boils off to the east of the chip sample.	*	*
N-8	Very fine-grained chalcedonic silica, vugs are lined with drusy quartz. Rusty vugs may indicate original pyrite content.	4	150
N-9	Altered Toodoggone volcanics, bleached clay minerals, argillic alteraion.	4	1,360
N-10	Vuggy brecciated quartz with no visible sulphide content.	6	90
N-11	(soil sample)	*	*
N-15	(soil sample)	*	*
Mets grid samples			
11+45E, 7+45N	Pale grey, very fine-grained, cherty quartz. The bugs are lined with quartz crystals. There are patchy soft pale creen clay minerals.	6	800
16+50N, 8+00E	Calcite, quartz, barite vein material. Vugs are lined with barite crystals.	56	1,040
17+50N, 8+50E	Very fine-grained vein quartz, vuggy with weak hematite staining of fractures, vugs are lined with quartz.	490	770
19+00N, 31+00E	Fault in creek, silicified and propylitically altered.	6	90
20+00N, 9+50E	Vein quartz, vugs are lined with quartz crystals, single-stage drusy white quartz, no sulphides.	654	2,500
20+50N, 6+25E	Quartz-barite vein, vugs are lined with barite crystals, trace disseminated pyrite.	388	1,700
21+75N, 6+75E	Wallrock, altered, very fine-grained, silicified, pale brown weathering, medium grey fresh surfaces, with very fine-grained disseminated pyrite, has white speckled appearance.	198	540
Golden Furlong	Brecciated vein quartz.	16	400

* soil samples, see page 4

Belle claims

		Au ppb	Ag ppb
N-20	Vuggy, drusy quartz vein material collected from edge of cliff, contains considerable barite.	298	3,300
N-21A to N-21D	Soil samples collected over same vein trace as N-20, over flat tundra surface.	*	*
N-22	Sample of quartz-barite vein float collected from second intersection in the cliff.	44	360



Soil Samples	Au ppb		Ag ppb	
	+80	-80	+80	-80
N-6A	12	18	960	450
N-6B	40	22	450	710
N-7F	8	86	370	1,100
N-7G	62	490	180	310
N-11	4	8	230	710
N-15	8	32	160	400
N-21A	366	1,420	4,000	7,100
N-21B	432	328	840	1,560
N-21C	136	214	220	680
N-21D	68	66	1,100	2,300
11+45E, 7+45N frost boil	10	54	650	1,290

These surface values are quite significant and are believed to be related to the same vein system from which previous grab samples returned in excess of one ounce per ton gold. More systematic hand trenching of this zone was to be conducted.

The sampling completed on the north end of the Belle claims on the quartz-barite vein system was indicative of precious metal values with the best results obtained from frost boils directly over the vein system. The limited sampling would also suggest possible down-ice dispersion of values.

The testing of -80 and +80 soil fractions suggests that mechanical transport and frost action form a significant component to metal dispersion.

The multi-element soil tests suggest that barium may be a very useful element for indicating or tracing vein systems within overburden cover. Arsenic and lead also appear to be useful pathfinder metals.

TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-214 | Taiga Consultants, Ron Netolitzky | Date Aug.30, 1983

Client Project GR-BC-7 | Page 1/4

Sample No. / Rock	Au ppb	Ag ppb	Cu ppm	Pb ppm	Zn ppm	Ba ppm
N-1	56	1080				
N-2	40	4400	21	1500	85	
N-3-A	102	3900				
N-3-B	60	1900				
N-3-C	72	6800				
N-4-A	26	2500				
N-4-B	2000	14500				
N-6 Composite	146	180				
N-7-A	660	350				
N-7-B	1040	220				
N-7-C	374	190				
N-7-D	4200	1120				
N-7-E	2200	9100				
N-8	4	150				
N-9	4	1360	16	51	95	2250
N-10	6	90				
N-20	298	3300				
N-22	44	360				
Mets 11+45 E 7+45 N	6	800				
1650 N 800 E	56	1040		1	20	12.2 %
850 E 1750 N	490	770				
19 N 31+00 E	6	90	16	4	81	
20 N 950 E	654	2500				
Mets 20+50 N 6+25 E	388	1700	8	-1	5	

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-214 Date

Client Project GR-BC-7 Page 2/4

Sample No. Rock	Au ppb	Ag ppb	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Ba ppm
21+75 N 6+75 E	198	540	20	-1	1	7.7	1.2	1640
Golden Furlong	16	400						

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-214 Date

Client Project GR-BC-7 Page 3/4

Sample No. Soil	+80 mesh pulverzed Au ppb	Ag ppb	-80 mesh Au ppb	Ag ppb
N-6-A	12	960	18	450
N-6-B	40	450	22	710
7-F	8	370	86	1100
7-G	62	180	490	310
N-11	4	230	8	710
N-15	8	160	32	400
N-21-A	366	4000	1420	7100
N-21-B	432	840	328	1560
N-21-C	136	220	214	680
N-21-D	68	1100	66	2300
Frost Boil 7+45 N 11+45 E	10	650	54	1290

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TERRAMIN RESEARCH LABS LTD.

ANALYTICAL REPORT

Job # 83-214 Date

Client Project GR-BC-7 Page 4/4

Sample No. -80 mesh Soil	As ppm	Sb ppm	Cu ppm	Pb ppm	Zn ppm	Ba ppm
N-6-A	9.2	3.6	41	530	117	670
N-6-B	3.3	2.2	36	540	146	800
N-7-F	9.6	1.0	61	198	139	480
N-7-G	5.8	0.4	20	47	93	730
N-11	13.0	1.2	6	10	14	360
N-15	2.1	0.6	9	8	44	1110
N-21-A	54.	0.8	9	240	42	520
N-21-B	4.6	0.1	39	132	185	720
N-21-C	4.0	0.2	29	240	320	760
N-21-D	5.4	0.3	21	61	181	1280

14, 2235 - 30th Avenue N.E., Calgary, Alberta T2E 7C7
(403) 276-8668 Telex 03-821172 CGY

SAMPLE DESCRIPTIONS

Mets Claims

89035	Float near Trench 3, A vein quartz
89036	Float near Trench 3, B vein quartz
89037	Float near Trench 6, A pyritic vein quartz
89038	Float near Trench 6, B pyritic vein quartz
89039	Float near Trench 7, A open vein breccia samples drusy quartz
89040	Float near Trench 7, B drusy quartz
89041	C rusty brown

Belle Claims

89042 (N-23)	gossan weathered, strong argillic alteration, porous vuggy appearance is possibly related to the weathering of pyrite.

Mets Claims

89043	N-12(A)	Quartz vein breccia, possibly siderite.
89044	N-12(B)	as above
89045	Mets	from silicified and altered zone
89046	Mets	from silicified and altered zone.

To: GOLDEN RULE RESOURCES,
150, 1300 - 8th Street S.W.,
Calgary, Alberta T2R 1B2

ATTN: Mr. R.K. Netolitzky

File No. 25168
Date August 21, 1983
Samples Rock

Certificate of ASSAY

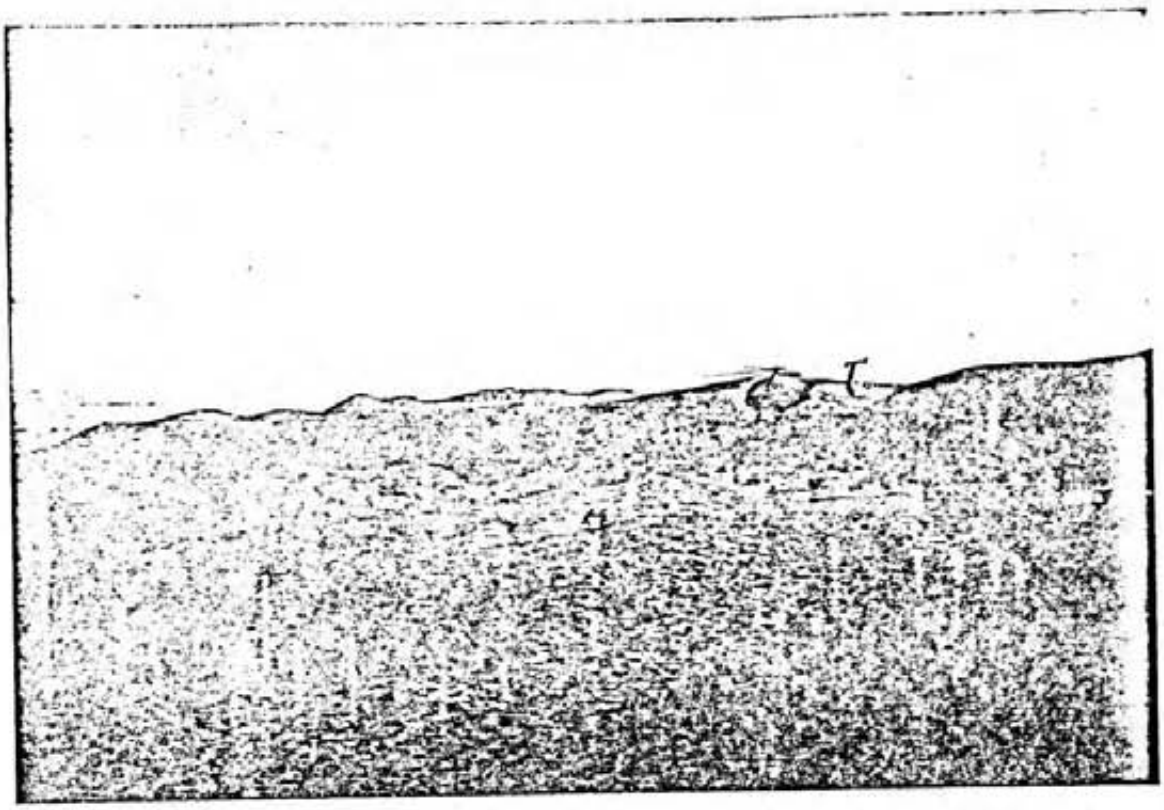
LORING LABORATORIES LTD.

SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER
"Rock Samples"		
89033	.013 GR-S-8 Earl Lake:	-
89034	.003 GR-S-5 Wedge - Assay. retained.	-
89035	.018 GR-BC-7 mets	.75
89036	.022 " "	.24
89037	.001 " "	.01
89038	.018 " "	.06
89039	.003 " "	Trace
89040	.002 " "	Trace
89041	.043 " "	.09
89042	.002 " Belle.	Trace
89043	.036 mets.	.47
89044	.039 mets	.23
89045	.022 mets	Trace
89046	.015 mets.	Trace
89054	.014 Caribou Lake.	-
89055	.017 Caribou Lake -	-
89056	.021 Caribou Lake.	-
89057	.005 Caribou Lake.	-

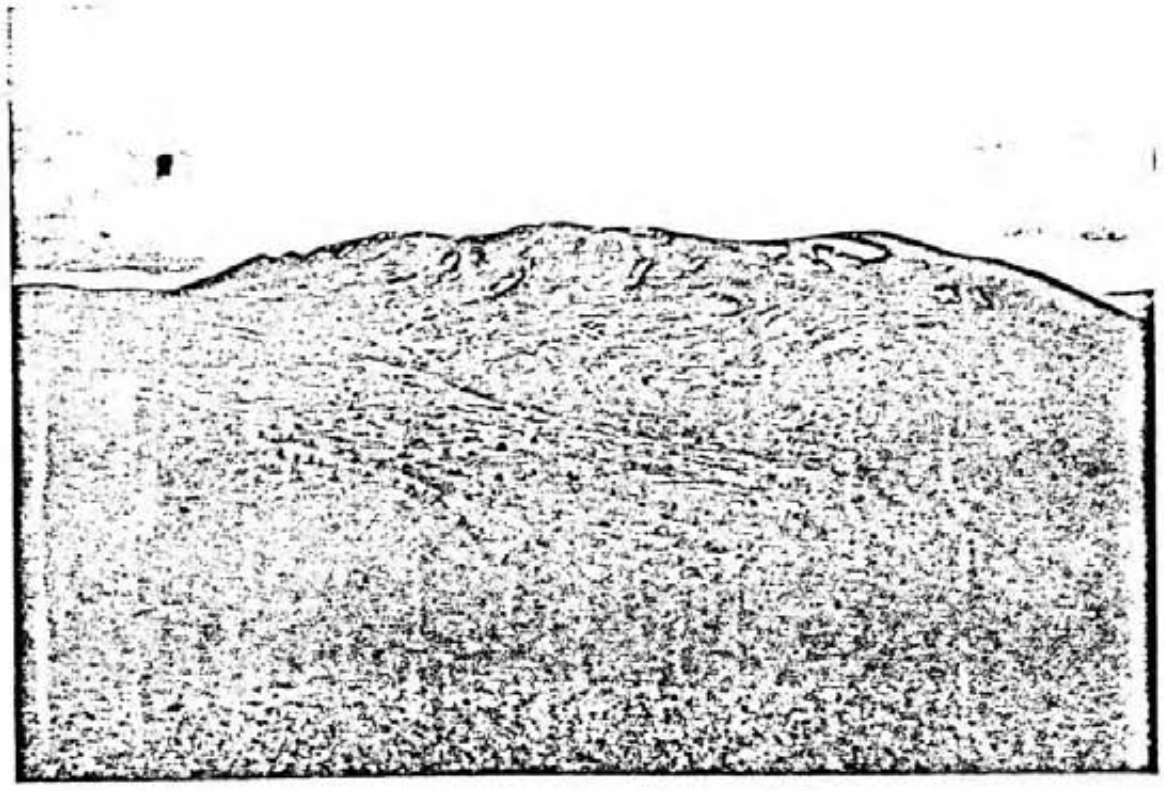
I Hereby Certify THAT THE ABOVE RESULTS ARE THOSE ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.
Pulps Retained one month unless specific arrangements made in advance.

D. Eveleth
Assayer

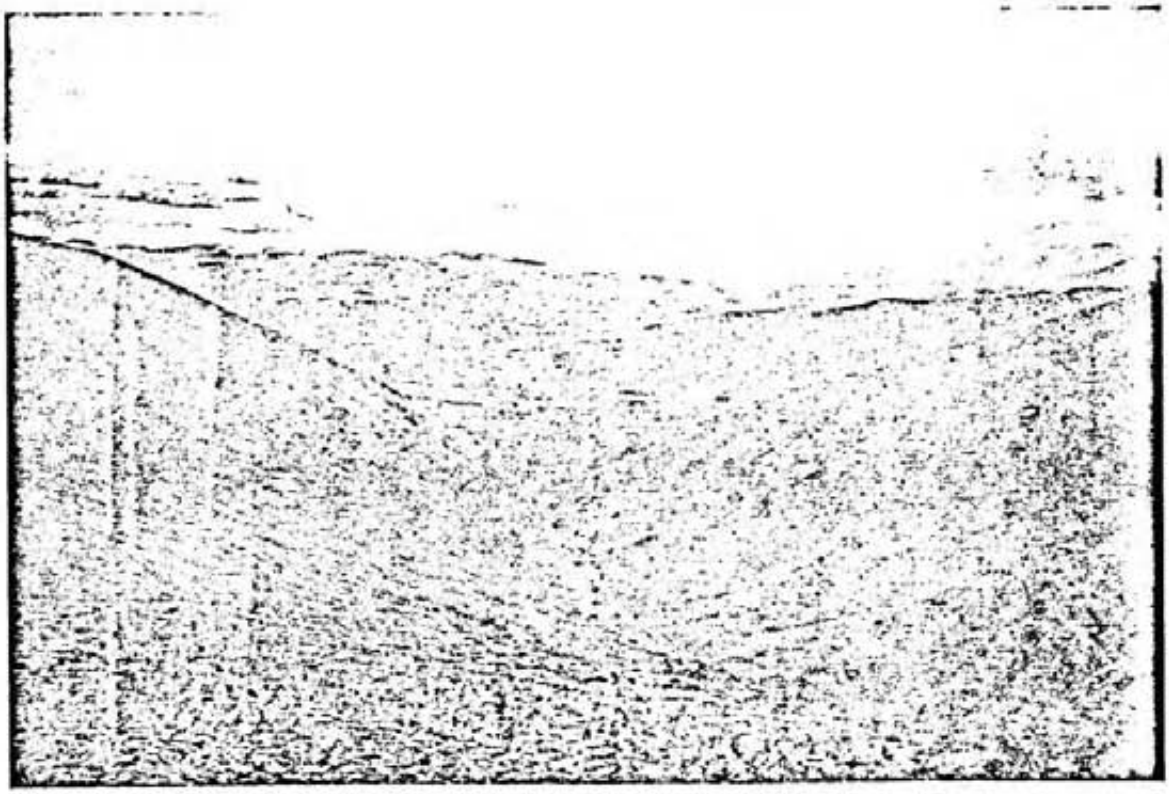


1. View of Metsantan Mountain from Kidd Creek camp.

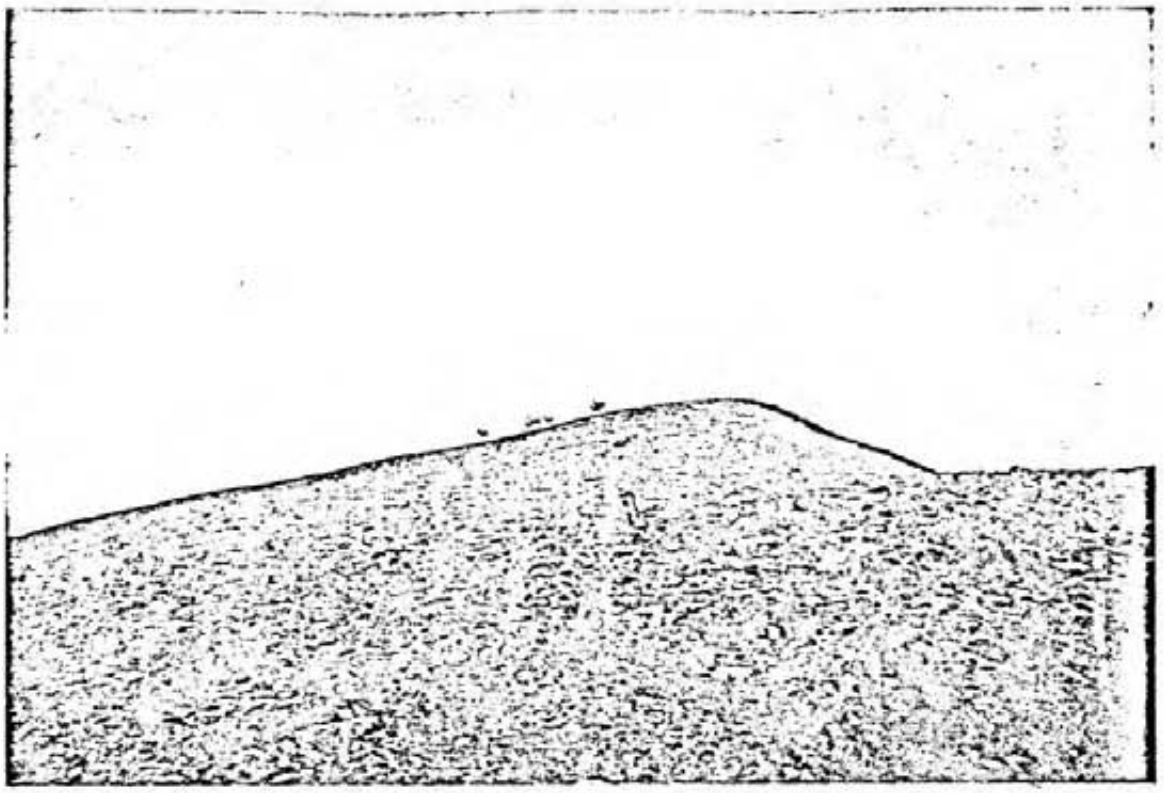


2. View of Metsantan Mountain from east side of Mets claims.

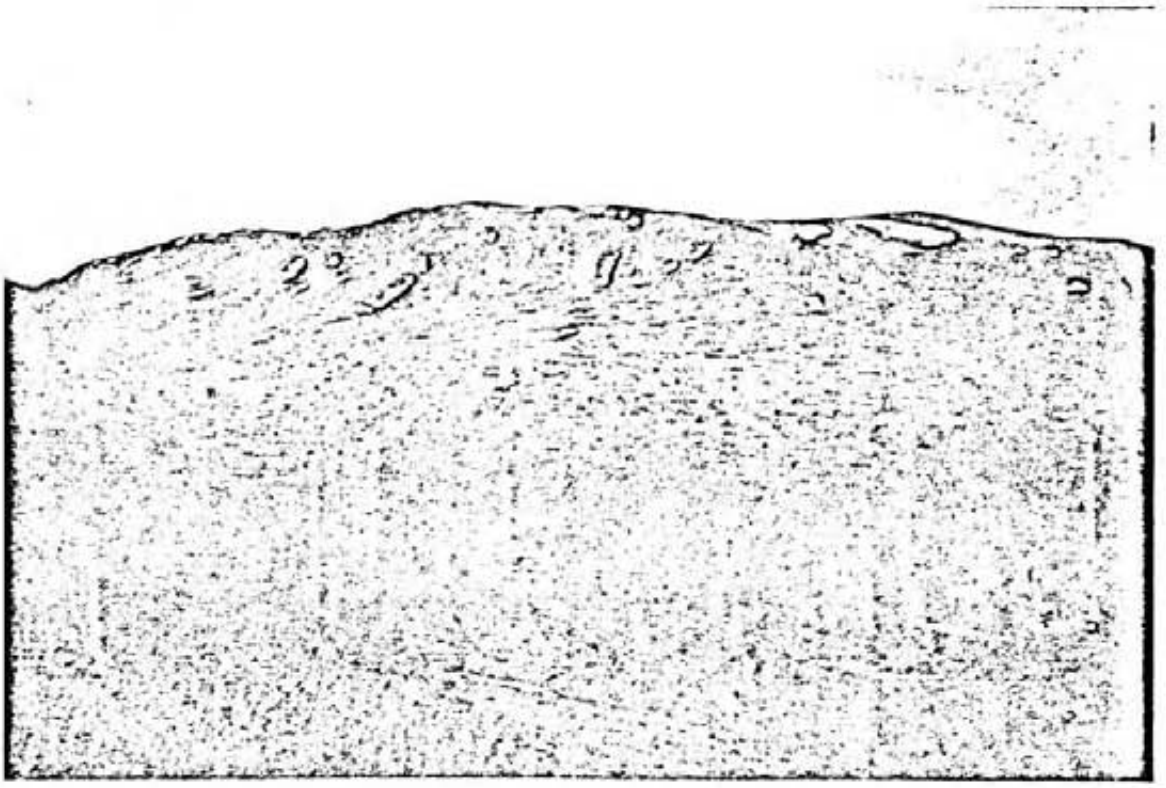
3. View of Lacana trenches, looking north. The main structure and alteration zone trend through the saddle.



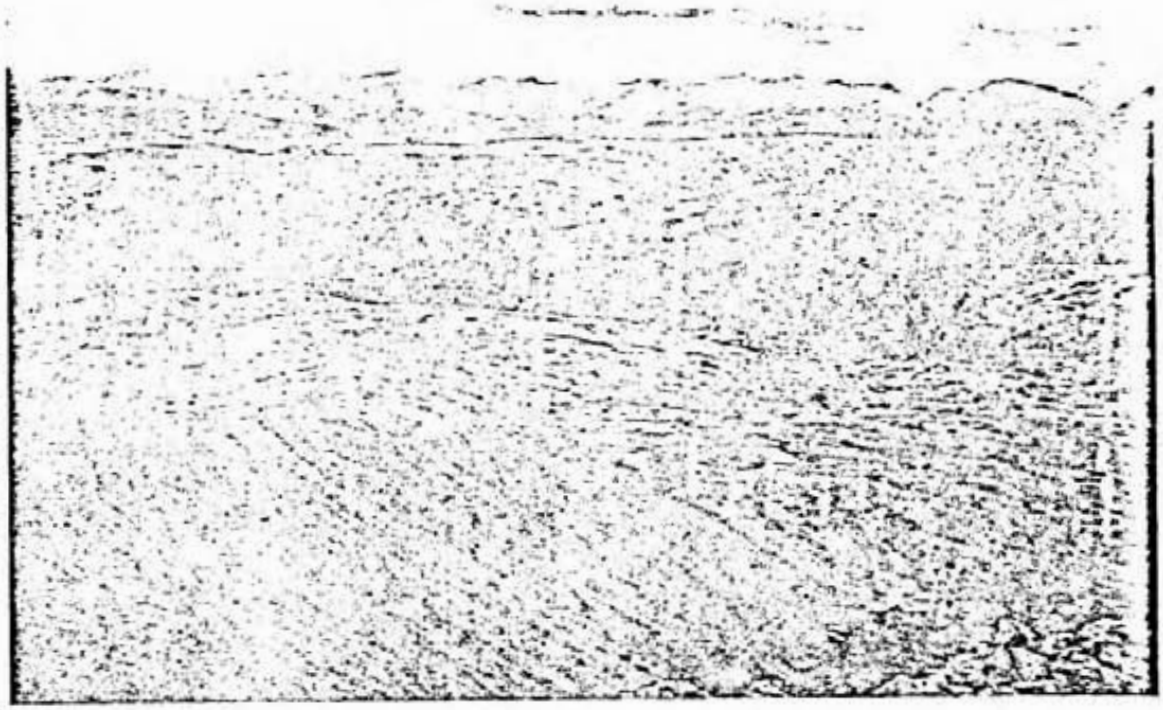
4. View looking southwest. Site of trench and geochemial anomaly in the foreground.



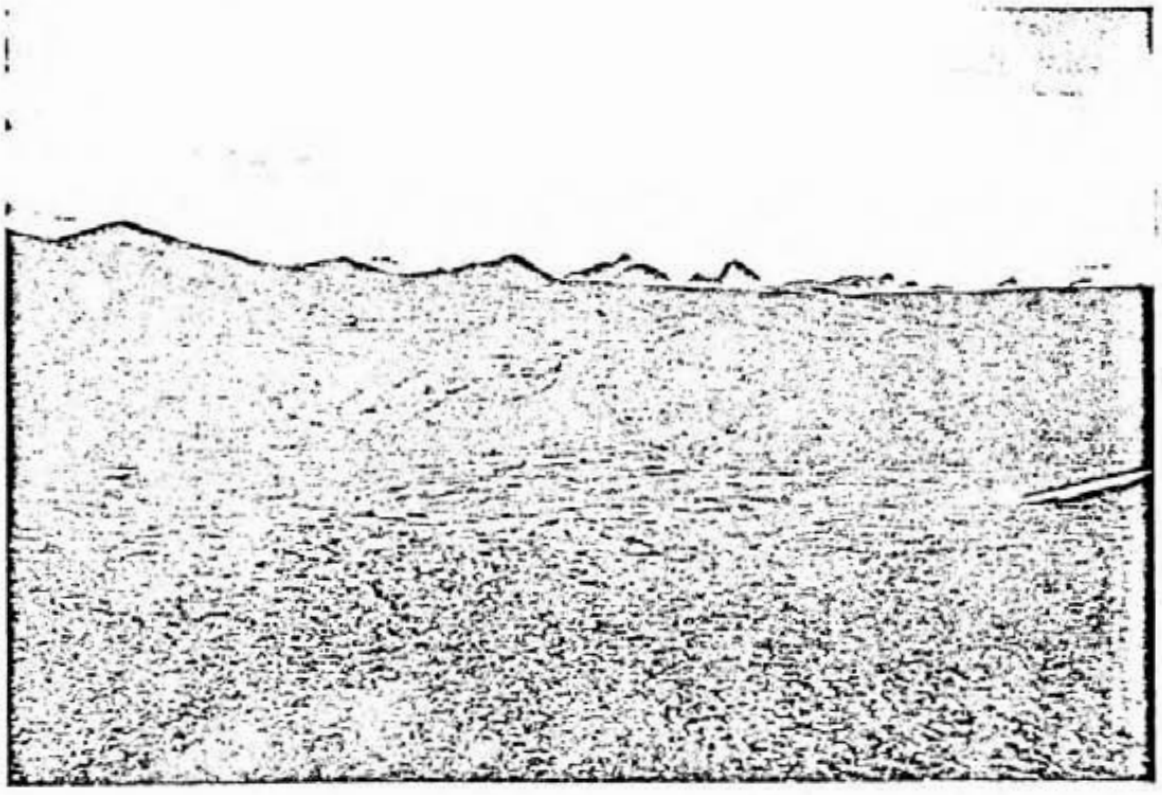
5. Top and back side of Metsantan Mountain; characteristic alpine tundra. Surficial material is till with significant transported component.



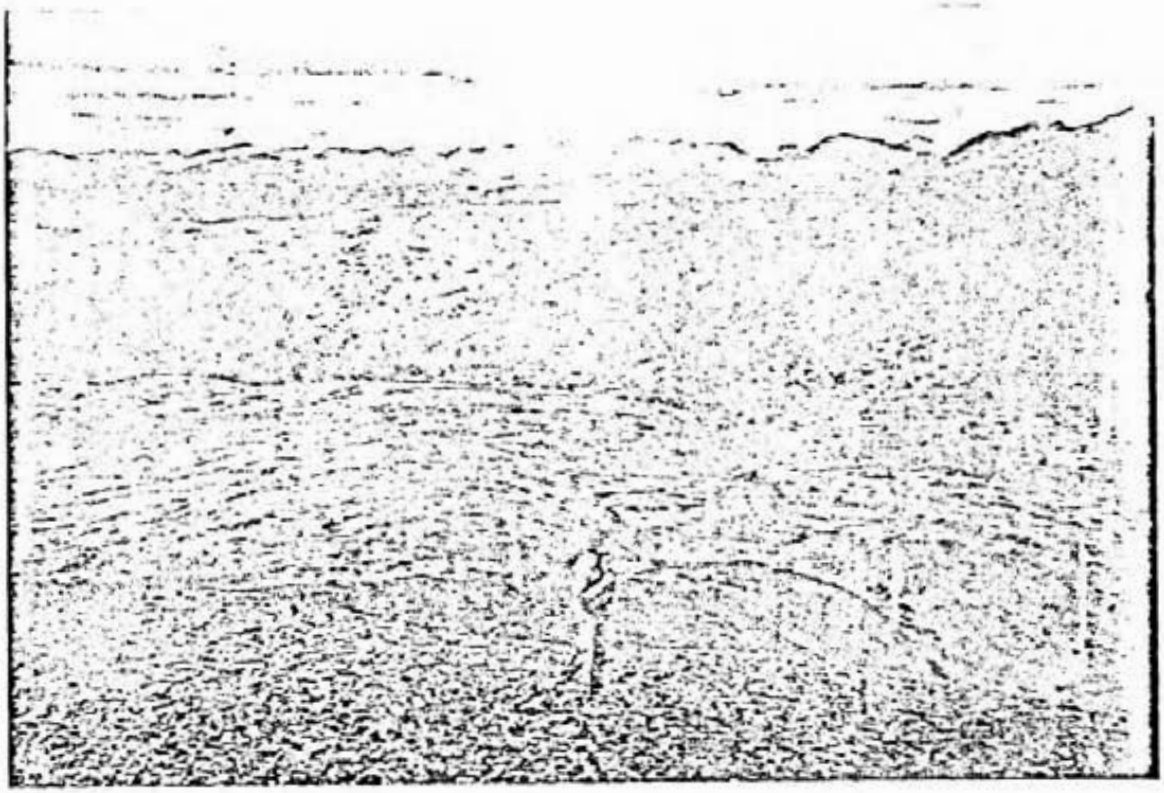
6. View of Metsantan ridge from the northeast.



7. Close-up of alteration zone seen in distance from previous photo, looking east.

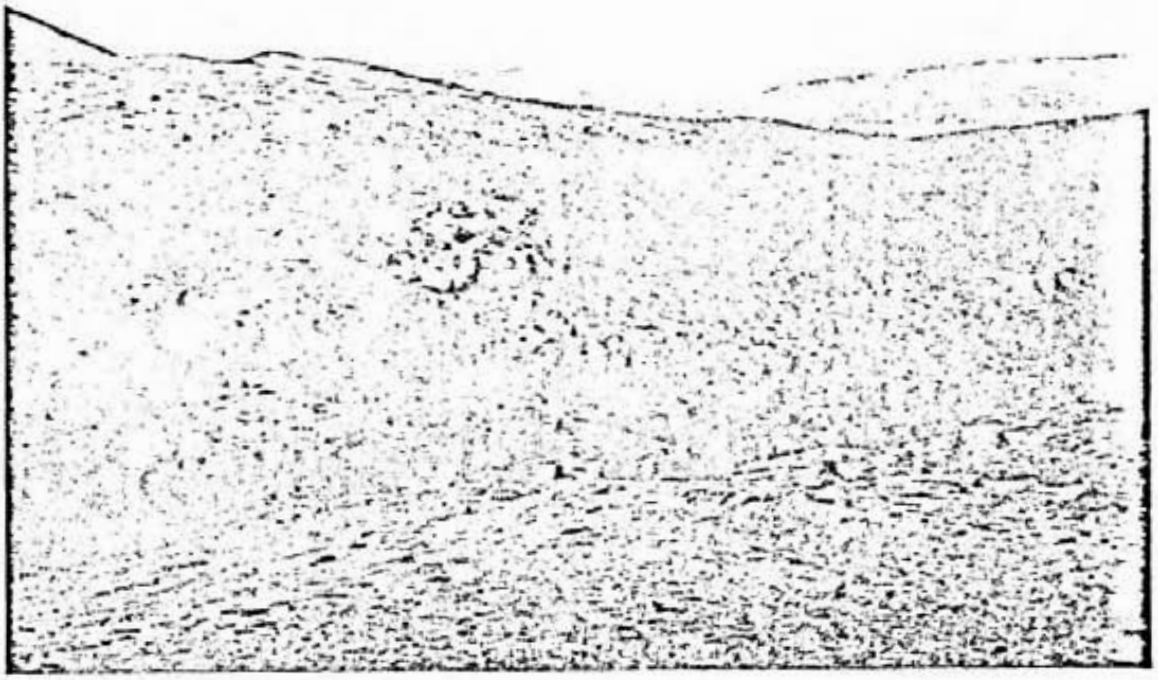


8. Heavy clay alteration present at the base of the hill.



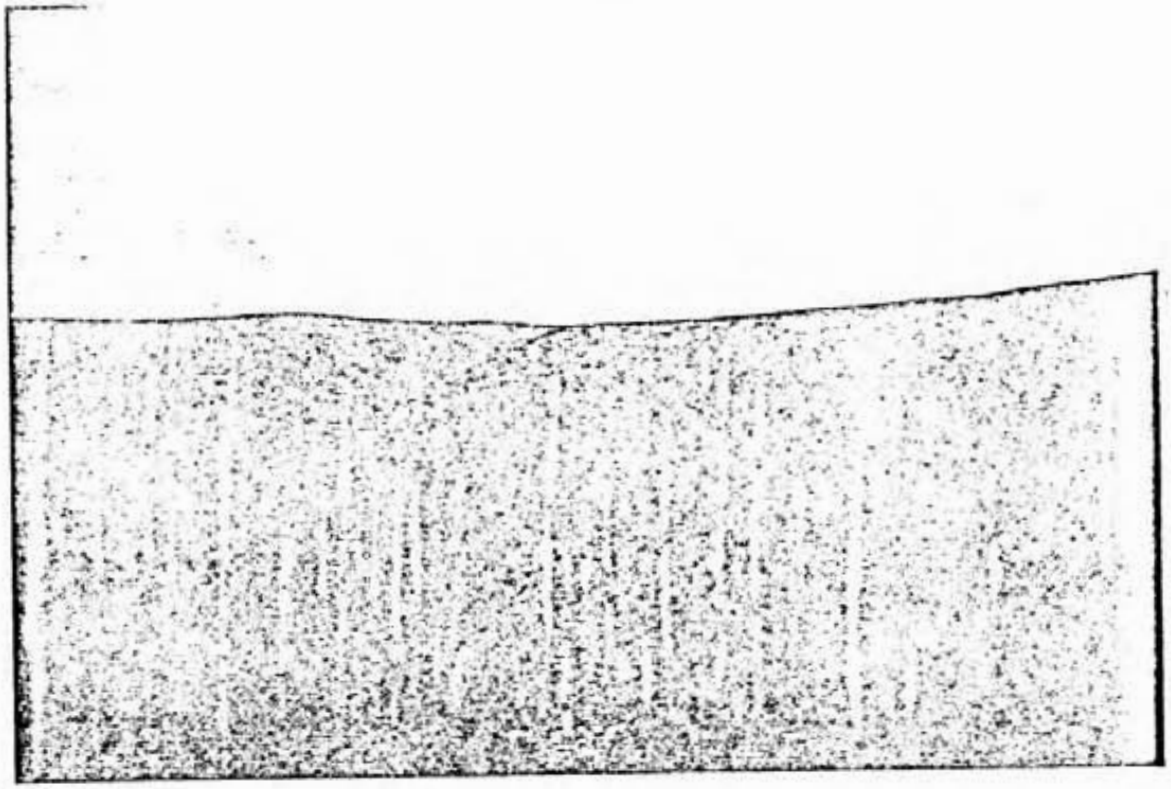
9. Quartz vein on north end of Metsantan ridge which returned significant gold values from surface chip sampling of talus material.

10. Looking north from southernmost silicified zone, central sector of Mets claims. Glacio-fluvial terraces evident on east side of creek.

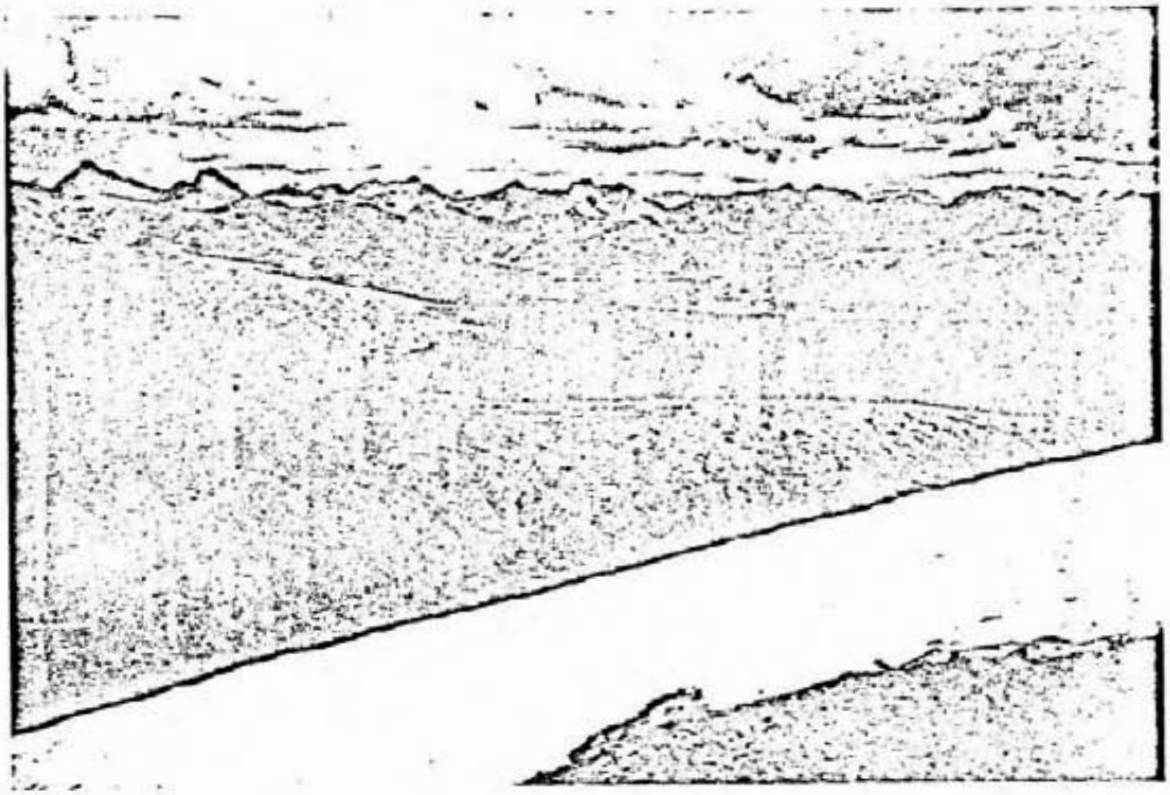


11. View looking northwest. Massive silicified knobs. Extensive clay alteraion zone evident on left. Mountain in background comprosed of gently dipping Cretaceous sediments which unconformably overlie the Toodoggone volcanics.

12. View looking southeast from north side of Mets claims. Linear depression with possible associated alteration zone evident in creek valley.



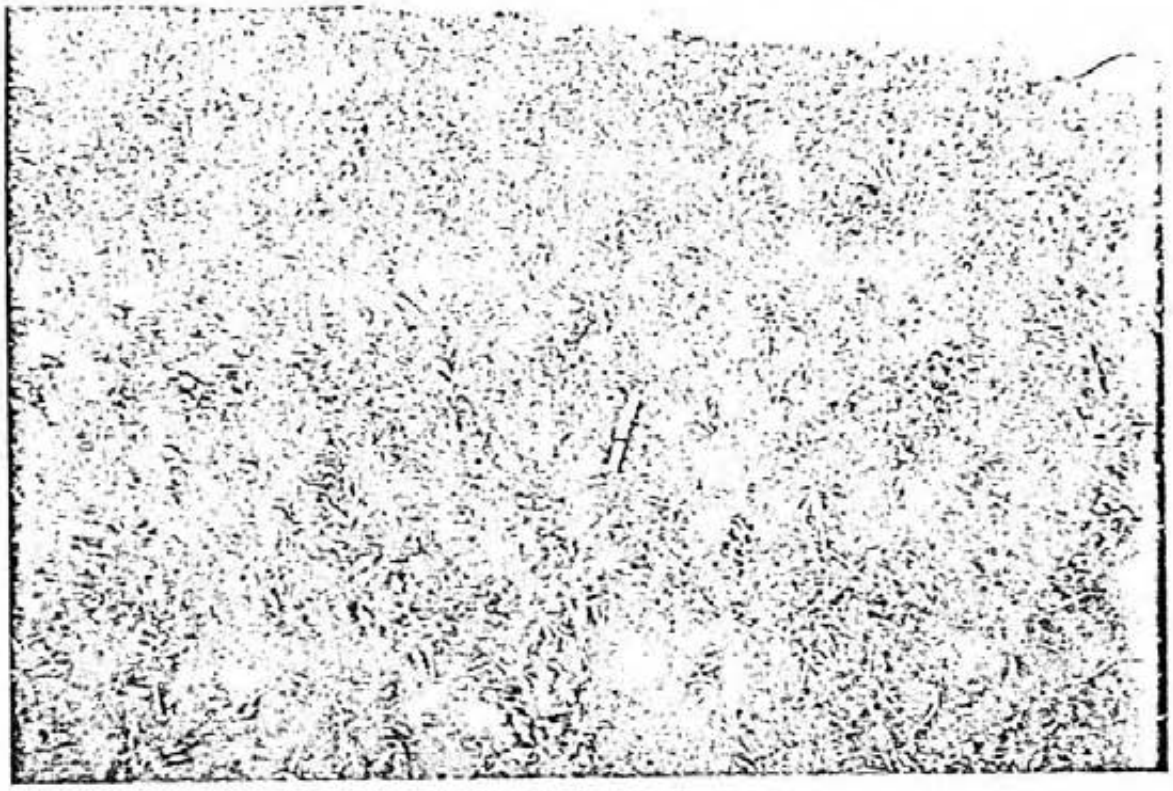
13. Looking northwest from the Mets north boundary at Kidd Creek's Golden Furlong zone, which strikes into the Mets claims.



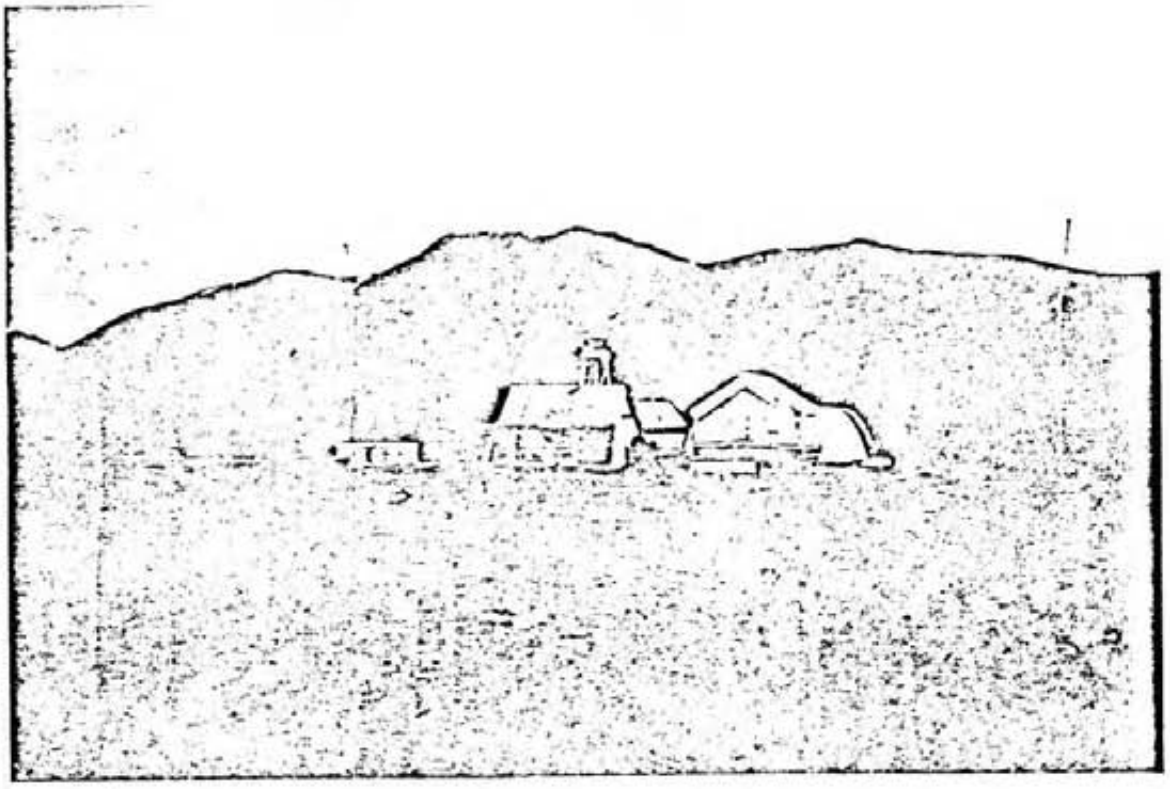
14. View from Metsantan ridge looking east. Rugged mountains reflect mixture of Cretaceous granitic intrusives and Takla volcanics.

15. View looking north from the northeastern corner of the Belle claims. Extensive trenching on the Kidd Creek occurrence. The alteraion zone trends into the Belle claims.

16. Quartz-barite vein evident on the steep slope, northeastern corner of the Belle claims. Evident as subtle depression on the flat tundra surface, with alteration material brought to surface by frost boils.



19. View of thick vegetative mat present in the southwestern Belle claims, in proximity to scattered soil geochemical anomalies and stream silt anomalies.



20. Kidd Creek camp site looking south towards the Belle claims. Extensive pitted outwash characteristic of many of the main valleys.

REPORT ON THE

METS, BELLE, AND GOLDEN NEIGHBOUR PROPERTIES

July 22 - 26, 1983

For Taiga Consultants

(Golden Rule Resources)

Charles G. Clifton

Consulting Geologist

P. O. Box 9086, University Station

Reno, Nevada 89507

(Submitted August 25, 1983)

INTRODUCTION

Several properties in the Toodoggone mining district, 200 miles north of Smithers, British Columbia, Canada, were visited between July 22 and 26, 1983, at the request of Taiga Consultants, Inc. of Calgary, Alberta. I was accompanied by Ron K. Netolitzky, geologist and President of Taiga Consultants, Inc. While in the Toodoggone, accommodation was supplied by Kidd Creek Mines and Newmont Exploration, both of Vancouver, British Columbia.

The following properties were visited:

Mets Claims: July 22, 23, 24
Belle Claims: July 25 (½ day)
Golden Neighbour Claims: July 25 (½ day)
McClair Creek (Belle Claims): July 26 (½ day)

My task was to make observations on the type and style of precious metal vein mineralization present on these properties and advise as to their relative merits, based on my experience with similar systems in the western United States. In addition, I was to offer suggestions on how to interpret surface showings and how to most expeditiously evaluate individual veins within the properties.

The following report, and the appended summary of observations of the Toodoggone as a whole, are offered as guides to the evaluation of precious metal mineralization in the district.

METS CLAIMS

The Mets claims are located on the northern portion of Metsantan Mountain and on the valley floor to the north and east. The Metsantan claims of Lacana border the Mets claims to the south and the Al claims of Kidd Creek Mines border the claims to the north. The Mets claims were located on several stream sediment Au and Ag anomalies picked up by Kennco in the early 1970's.

Only minor trenching has been performed on vein exposures within the Mets claims to date. Considerable work has taken place on the Lacana's and Kidd Creek's ground to the north and south, however. Lacanas work consisted of a number of core holes on a set of parallel veins which are present on the southeast flank of Metsantan Mountain. The veins are narrow but apparently carry appreciable gold and silver. Minor galena and chalcopyrite were seen in quartz exposed in trenches and drill core. The veins are poorly exposed due to colluvial cover. Alteration of the host rock consists of weak silicification, development of chlorite and epidote, and intense reddish discoloration of feldspars. No phyllic (pyrite-sericite) or argillic (pyrite-clay) alteration was seen. The host rocks exhibited no "bleaching" indicative of low pH attack. The hydrothermal solutions appeared to be in near equilibrium with the host rocks. Minor red to yellow discoloration found along the veins on the surface is due to oxidation of pyrite in the propylitized wallrocks.

Several small veinlets which were found in core samples showed evidence of a single pulse of hydrothermal solutions which deposited quartz and second pulse which deposited calcite. Each stage appeared to be associated with base metal sulfide and, presumably, gold and silver. The calcite veins are intact so were probably deposited later. The fractures which host the mineralization were developed in a compressive stress regime, as evidenced by slickensides and narrow, discontinuous fractures. There is little or no evidence for multiple stages of brecciation or significant translation on the fracture planes. There was no evidence of major dip slip or strike slip movement, developed in a non-compressive stress regime, which could give rise to large, throughgoing open conduits. The fractures developed on the Lacana ground appear to be subparallel to the main fractures which form the Mets shear zone.

The chances for substantial mineralization developed at this end of Metsantan Mountain appear to be slim. Drilling by Lacana was completely negative. Furthermore, little mineralization is developed on these structures where they are exposed for 500-700 vertical feet on the cliff face to the north. A sample of quartz

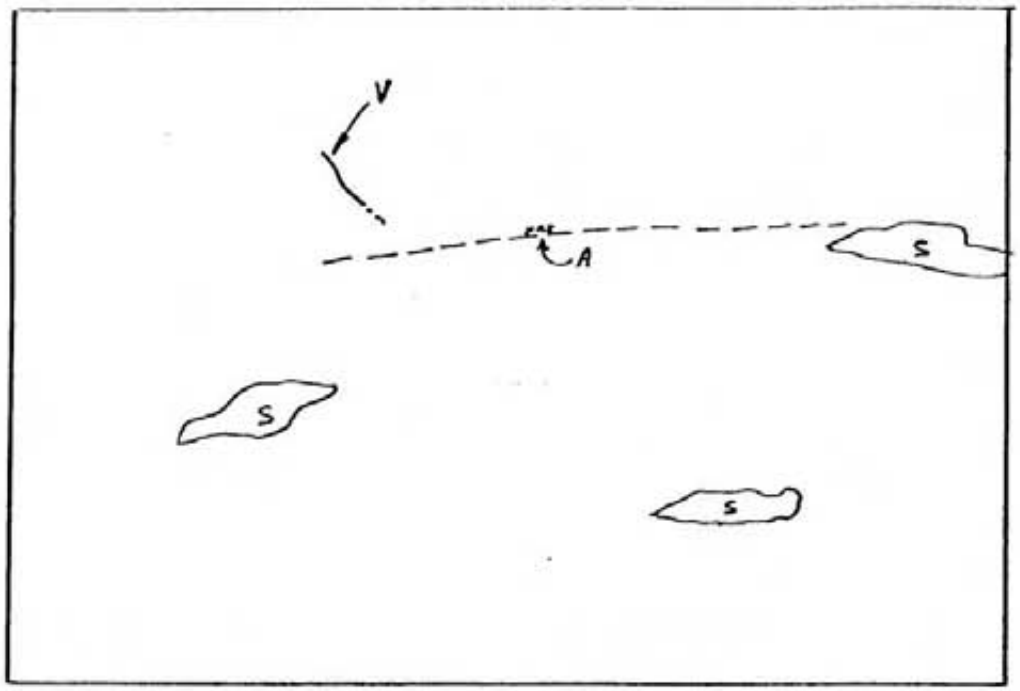

V
A
S
S
S

Photo No. 1 View of Metsantan Mountain from northeast. "A" area of clay-rich fault zones with associated propylitized and silicified wallrocks. "V" vein of quartz-calcite on top of side of mountainside which warrants evaluation. "S" bodies of silica which have replaced volcanic host-rock.

collected at Taiga's grid point 1300 N, 1250 E (old sample location: MS 106), at a location several thousand feet north on strike, showed no base metal sulfides or evidence of multiple pulses of hydrothermal fluids. The quartz was deposited in a small area of stockwork which had undergone considerable post-mineral shearing. This location is in the valley floor, in an area of well developed reddish alteration. The amount of silicification is very minor, however, and the alteration appears to be a function of accentuated weathering of highly sheared propylitized wallrocks. In short, excellent 3-dimensional exposure by drilling and natural relief indicates major mineralization is not present in this fracture system.

Because this system is parallel and in close proximity to the veins exposed on the southern boundary of the Mets claims, there seems to be little to recommend this area presently being explored by Taiga. A series of trenches blasted through colluvial cover by Taiga has uncovered stringers of quartz which have much the same appearance as the quartz found in the Lacana trenches to the south. The structures cut in the Taiga trenches are just as poorly developed, have similarly developed alteration, and strike in the same direction. Despite occasional high assays in float material, this area of the Mets claims suffers from the same deficiencies as the Lacana ground, based on what is exposed at the present time. These include: tight, poorly developed fractures; little or no development of mineralization within the structures on the cliff face; and a lack of a heavy silver sulfide assemblage which is characteristic of the better properties in the district.

In my opinion, the fractures in this area of the Mets claims are subparallel to the major fractures of the Mets shear zone. Netolitzky feels that a separate structure, basically parallel to the cliff face and running SSE down the ridge, is indicated in this area by the distribution of float samples. This is a possibility and should be explored. While I saw no evidence for this structure in the few minutes I was in the area, an oblique structure, tangential to the trend of the Mets shear zone, is a candidate for better developed mineralization. As discussed in my private report on epithermal vein deposits (Clifton, 1982), structures which are oblique to the main direction of strain release often remain open longer to solution flow. They are characterized by brittle failure, rather than shear failure, and thus may be better developed on strike and dip.

On the northeast corner of Metsantan Mountain a strong vein is developed in the face of the cliff and on the slope of the mountain above. To date this structure has not been explored. A single trench failed to cut the vein where it is best developed.

Several things suggest this vein is worth drilling: quartz and calcite float is present for at least 800 feet on strike; the vein material is multi-stage, with alternating episodes of quartz and calcite, and some indication of replacement of the latter in some samples; silification is wide, up to 20 or more feet in some areas, as evidenced in colluvium; random float samples have returned assays in excess of 1 O/T Au; large boulders of vein material, up to 2 feet in diameter are present at the base of the cliff; the host structure is located westerly of what I consider the main zone of shearing in the Mets shear zone. The structure appears to be subparallel to the Mets shear zone but quartz float found on the west flank of the mountain suggests the structure may trend or turn to the west. This is the most promising structure on the Mets property, in my opinion.

North of Metsantan Mountain, at the base of the escarpment, considerable silicified float and yellowish clay zones are present. These appear to be developed along a E-W fracture zone which parallels the north side of the mountain. I saw no evidence of brittle failure in the rocks or invasion of quartz along singular fractures. There is evidence for considerable hydrothermal activity, however. The strong clay zones are clearly avenues of argillic alteration, most of which is hypogene. These zones are bordered by variably propylitized rocks which can contain in excess of 10% pyrite. Some of the wallrocks are highly silicified. Unfortunately, there is little evidence of quartz deposition in open spaces. The silicification is a replacement type and very little fracturing or silification has taken place after the first stage of silicification. At the contact between the clay in the argillic zones and the silicified wallrock I saw no evidence of veining or remnants of vein materials stuck to the wallrocks. The clay zones contained very little quartz float, small or large, that might indicate development of vein material in these structures.

The presence of red and yellow staining in the clay zones and ferrocrete downslope attest to the large amount of pyrite which has been deposited in the area. Sulfidation without attendant silification is typical of the upper portions of some epithermal vein systems. This assemblage often changes to pyrite-silica and lesser clay at depth, in association with well developed quartz veins. On the other hand, the assemblage is very common and not always associated with interesting mineralization. The clay zones, particularly where they butt up against silicified or propylitized wallrocks, should be trenched. A careful search should then be made for vein material in the clay and along the wall of the structure. If no obvious vein material is found, nor chips of heavy sulfide, then the structures are probably barren within, say, 500 feet of the surface. If vein material is found, and even

if it is poor in grade, the structures warrant a drill hole. In virtually all epithermal systems, even those with a vertically restricted ore horizon, some leakage is present higher up. In the search for these deposits, leakage containing quartz only (no Au or Ag) is sound enough evidence to justify a drill hole in many cases. Based on the typically high grade of the quartz in the Toodoggone as a whole, every strong structure (vs. the veins on the Lacana property) which contain vein material should be explored.

In the Mets valley to the north and east of Metsantan Mountain I saw little of interest. The enormous silica replacement bodies which are present (see photo) are unmineralized and do not have later developed mineralized fractures along their margins. These bodies are unlike anything I have seen in other districts. In my opinion, they represent excess silica which has been released during magmatic crystallization. Since the bodies are almost pure silica I cannot attribute them to leaching by circulating hydrothermal solutions. The presence of minor barite may support a hydrothermal-magmatic differentiation relationship for the mineralization developed in the Toodoggone as a whole.

The presence of these large silica bodies is disquieting in that the vast majority of silica visible in the Mets area is not harbored by structures. Rather, the main stage of silica invasion in the area is associated with barren replacement phenomenon. I must conclude that the veins outside these bodies are the residual of what was clearly a very efficient mechanism for depositing silica. The single example of a vein-like structure which was affected by the event, the Golden Furlong, is barren, except for minor late stage activity which includes hydrothermal breccias. After the development of these silica bodies the surrounding areas experienced a volumetrically trivial amount of silica introduction. This latter event, however, was metal rich and was more complex, as evidenced by the development of barite, amethyst, and calcite. The challenge is to find a sufficiently large deposit of the later stage silica to warrant development.

The best developed veins and Au-Ag mineralization is developed outside, not within, the Mets valley. The valley represents the main Mets shear zone and was a corridor of major compressive stress. The fractures which developed peripheral to this zone are the most likely to have remained open during a subsequent hydrothermal event. I recommend evaluation of the two prospects discussed above, plus close examination of structures striking N-S on the hills east of Mets valley. This area is covered with glacial boulders and thick grass. However, careful prospecting may uncover mineralized rock on the slopes or in the N-S striking

drainages. I wouldn't rely entirely on silt or soil samples due to the flat relief and grassy cover. The center of the valley appears to be less prospective because it is the center of a shear zone. Also, Kidd Creeks ground, which has been heavily trenched, is poorly mineralized and is on the northern extension of the shear zone.

BELLE CLAIMS

The Belle claims are located south of the JD claim block of Kidd Creek Mines and cover portions of McClair Creek and the highly dissected volcanic plateau to the west of McClair Creek. One strong vein is exposed on the east cliff of the plateau overlooking McClair Creek. To the west of this vein and passing through the north end line of the claim block is a wide zone of reddish alteration. This zone contains minor silica and barite float. Both structures trend N-S. No trenching or drilling has been performed on the Belle claims to date.

Photo No. 1 is a view of the easterly vein where it crops out along the cliff wall and then passes beneath colluvial cover to the south. The white material is barite with lesser admixed quartz. The wallrocks are propylitized for 5 to 10 feet away from the vein. The propylization is so slight, however, as not to be easily recognizable. The lack of intense sulfidation of the wallrocks is apparent by the minor amount of brown discoloration which is present along the vein. As can be seen in the background, McClair Creek and this structure are subparallel.

An important observation was made on this vein which has ramifications for prospecting in the district as a whole. Unless a vein is exposed along a cliff, there is a high probability that the vein will have negative relief relative to the host rocks. This is because the vein material weathers faster than the wallrocks, except in the unusual case where the vein is solid quartz, such as on the Shasta property of Newmont. In areas of flat relief the vein structure will be filled in with colluvium and soil. Frost boils may provide the only evidence of mineralization on the structure and, importantly, the only useful geochem samples. Veins in areas of flat relief have a <u>less than average</u> probability of being discovered by soil sampling. In Photo 1 the negative relief of the vein in flat terrain is clearly seen south of the cliff exposure. To the north of the cliff exposure ("behind" the photographer) the effect is even more dramatic. The vein in this area is almost invisible. The vein-structure is hollowed out and filled with boulders and is evident only as a weak depression. It is easily seen from a helicopter but difficult to trace on the surface. Careful examination of frost boils makes the task easier.

Along the vein, just south of where it disappears in Photo No. 1, the gulley which marks the structure widens and deepens. In one area the gulley becomes very deep and is littered with large boulders. On the east flank of the gulley in this area phyllic alteration is developed for a short distance. It is recognizable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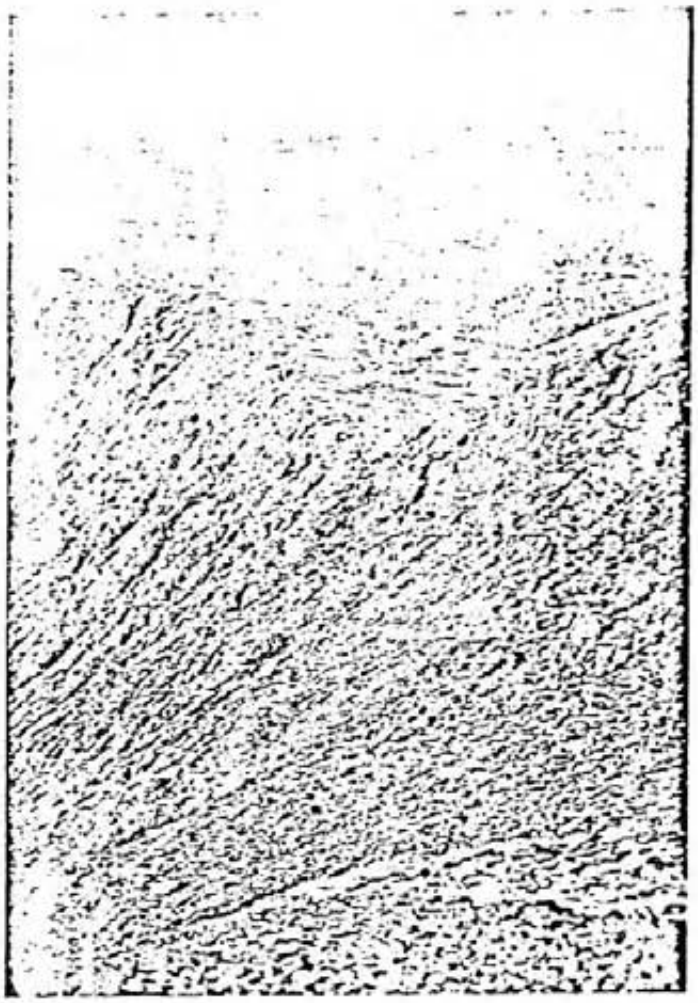


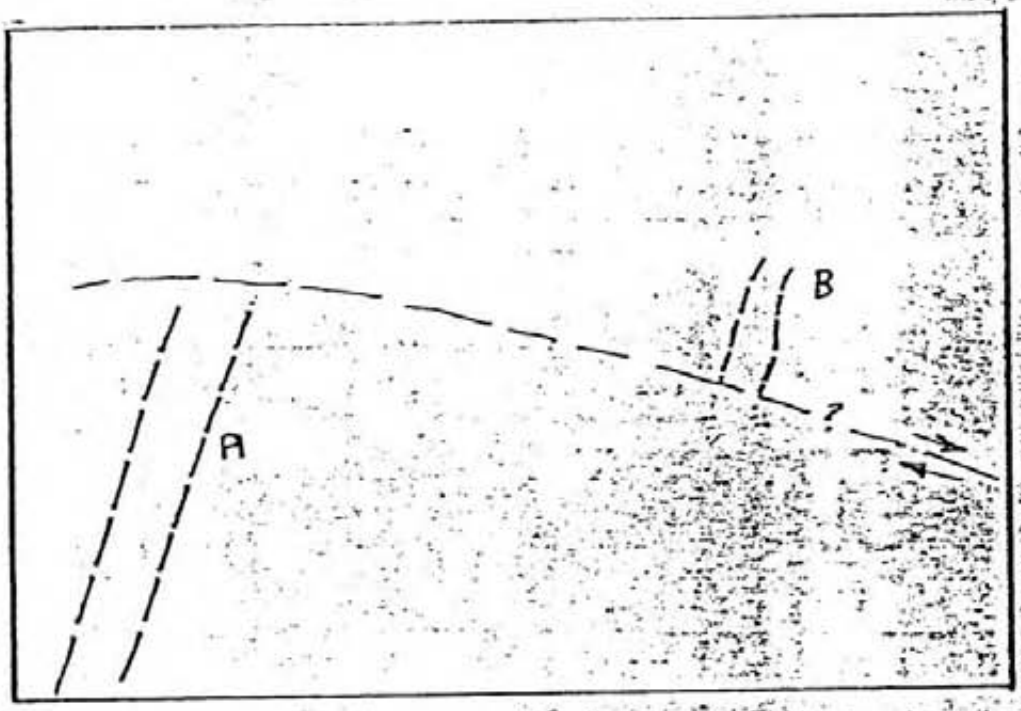
Photo No.1 Barite-quartz vein on east cliff, Belle claims. View to south. "A" depression marking location of vein. "P" approximate perimeter of propylitized wallrocks. "McC" trend of McClair Creek shear zone.

as a weak bleaching. Because the vein cannot be properly evaluated by soil samples, the width, depth, and type of alteration present in the walls of the gulley that mark it are potentially useful exploration guides. This, plus careful prospecting of loose boulders, may be the only way to evaluate the vein short of trenching it. It should be remembered, however, that where the vein is best developed is where its exposure may be the worst. Because of widening of the structure and introduction of large amounts of non-quartz vein material such as barite, the vein may be marked by a deep ravine that is impossible to trench.

Continuing south along the vein structure a deep E-W gulley is encountered which probably represents an E-W fault (Photo No. 2). The vein structure appears to terminate in this area. Two explanations are offered: the vein does terminate on the south side of the gulley where discoloration and silicified float are present, or the vein continues along the west flank of the ridge and is marked by a slight botanical anomaly (see A and B on overlay). The botanical anomaly was prospected for ½ mile but little rock could be examined due to the thickness of the grass. This zone is a good target for a soil survey.

The north end line of the Belle claims is located at the base of the escarpment overlooking the JD claims of Kidd Creek Mines. In Photo No. 3 trenching on the JD South zone is visible, as well as alteration along several vertical and flat faults. The geology of this area can be correlated with the easterly vein on the Belle claims.

On the overlay to Photo No. 3 are shown three sets of faults, all mineralized. The easterly dipping flat faults, of which there are three, are earliest and probably represent low angle detachments associated with a movement along the McClair Creek shear zone. The flat faults were then cut by two later fault sets: a strong N-S set coincident with the McClair Creek shear zone, and a weak set which was conjugate and orthogonal to the first set. The strong N-S set is responsible for the great relief between the base of McClair Creek and the highlands to the east and west. It is not known if these faults are dip slip or have served only as an area of weakness where the ancestral McClair Creek began its course. The N-S set cuts the flat faults on the east and northeast flanks of the mountain. Hydrothermal solutions rose up the N-S faults, which are vertical, and migrated laterally and up dip within the flat faults. The solutions altered the pre-existing fault gouge within the flat faults to a thick white clay gumbo. In the areas of the trenches this gumbo is associated with traces of low-grade quartz veining.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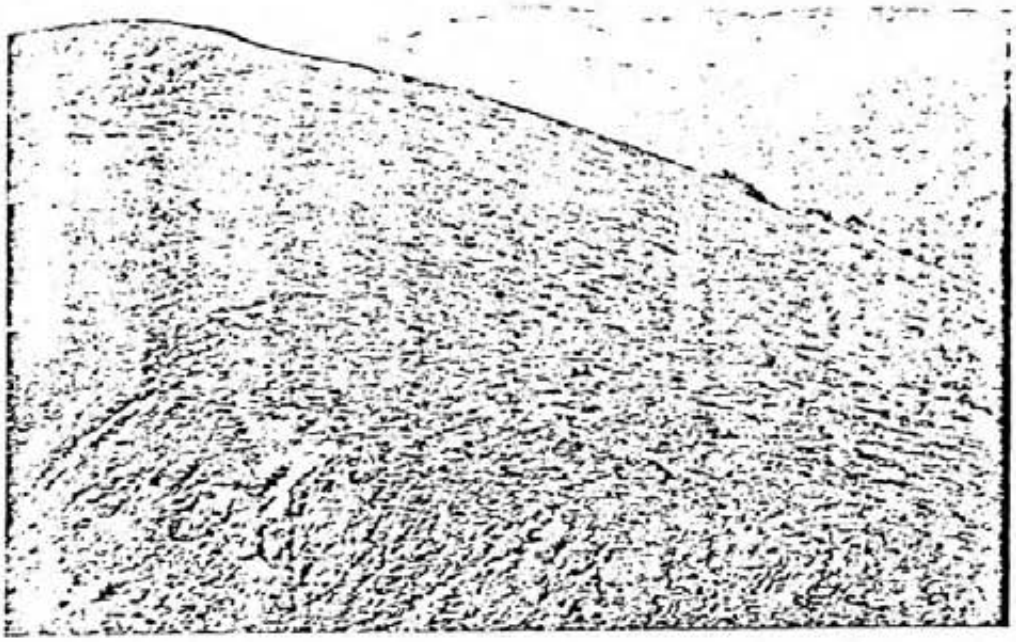
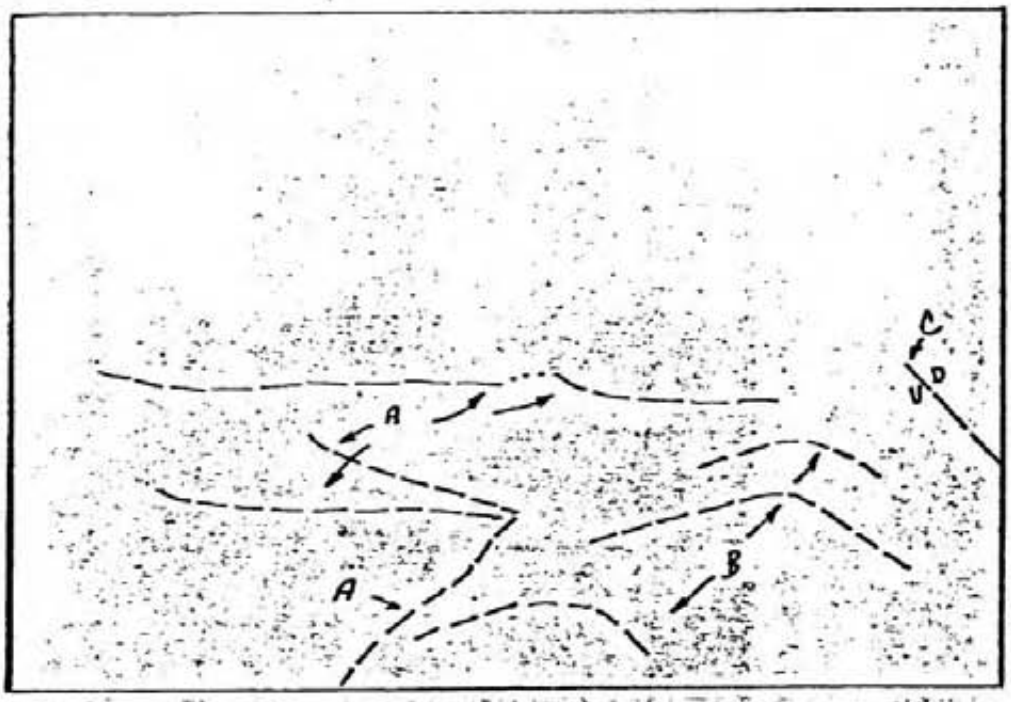


Photo No. 2. Southern end of vein shown in Photo No. 1, at location of deep E-W gulley. "A" probable termination of vein in south wall of gulley, silicified and altered rocks present. "B" possible continuation of vein, marked by botanical anomaly. Faults offset of vein is a possibility but was not checked in the field.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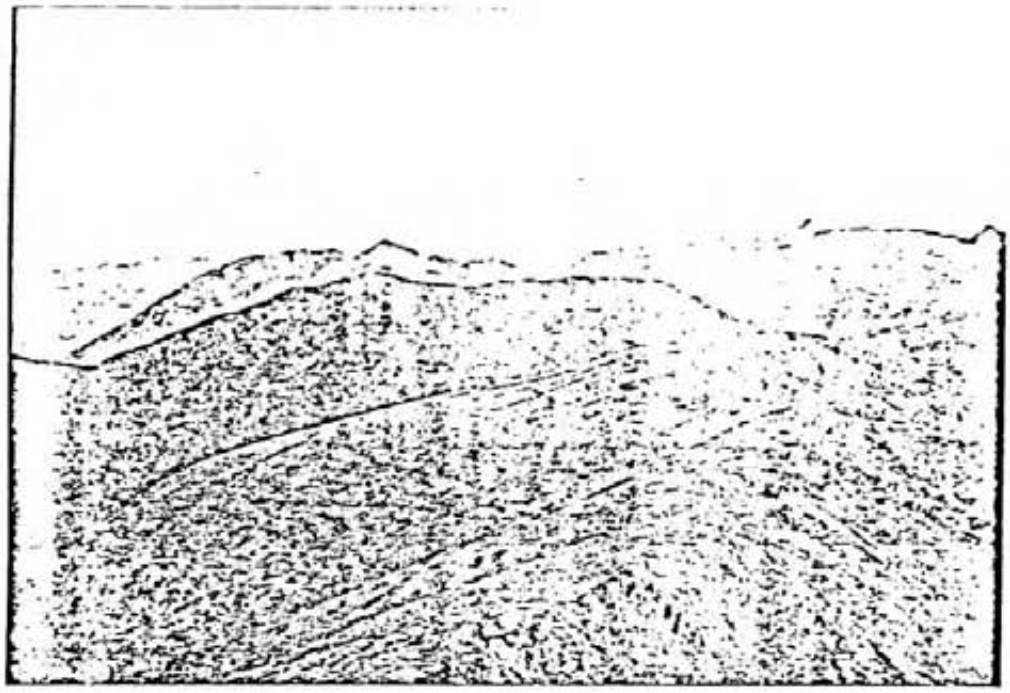


Photo No. 3 View of JD claims of Kidd Creek Mines from Belle claims. View to north. "A" flat faults which strike N-S and dip 20-40° to east. "B" vertical E-W faults which offset flat faults. "C" major N-S fault of McClair Creek fault zone which probably served as feeder for hydrothermal solutions to flat faults.

To the north (JD North area), the fault gouge is silicified and is associated with base metal sulfides. My recommendation to Kidd Creek was to trench the traces of the lower two flat faults (marked on overlay) and to consider drilling the intersection of the flat faults and the N-S set at the base of the cliffs to the east. Surface prospecting showed the lower flat faults to be mineralized.

The E-W orthogonal set is evidenced by the alteration and quartz float marked on the overlay. It produced minor offsets where it cut the flat faults. This fault set is conceivably related to the E-W structure in Photo No. 2. The fault is not as important as an avenue of fluid flow as the N-S set, in my opinion.

The N-S set is strongest along McClair Creek and along the escarpment to the west of the creek. In the central area of Photo No. 3 the N-S set dies out but is still evident as a vertical foliation or fabric in the floor of the trenches. In the hanging-wall and footwall of the flat fault which is exposed in the trenches, the vertically-oriented N-S fabric is mineralized. The mineralization is spotty but in one area carries 1 O/T Au in weakly silicified, pyritic andesite. Next to a thin basalt dike, heavy Pb-Zn-sulfude mineralization is present in a calcite gangue. The vertical fabric was initially interpreted by myself to represent tension fractures in the upper plates of the flat faults. I now interpret them to be sympathetic to the major N-S faults along the escarpment to the east. These smaller fractures have been mineralized by solutions migrating up the flat faults.

The easterly vein on the Belle claims (Photo No. 1) is associated with the N-S fracture set, in my opinion. It is parallel to the escarpment above McClair Creek and probably represents the last strong fracture along the west side of the shear zone which has not been eroded out. It is well mineralized but narrow on the north end, and is poorly exposed on the south. Because of the rich Au-Ag mineralization which is present in several areas of the JD claims, the vein should be thoroughly prospected. Because of its apparent narrow width, however, grades will have to be high and continuous within the structure. On the JD ground the best Pb-Zn-Ag-sulfide mineralization is associated with carbonate (calcite and siderite) gangue. This association may provide an additional prospecting tool.

The large alteration zone on the west side of the Belle claims contains some silica and barite float. Alteration zones of this type represent dispersion of fluids throughout a large volume of

rock, rather than channeling through a single structure. Mineralization within these poorly defined faults or shear zones is often developed in the areas of least alteration -- at the boundary with the unaltered wallrocks or adjacent to unaltered blocks within the zone itself. A minor amount of trenching following some careful prospecting along the outer margins of this altered area might be warranted. In general, however, the solutions which passed through this zone were badly focused and probably did not give rise to substantial mineralization.

One-half day was spent prospecting McClair Creek. Considerable alteration is present along this zone (Photo 4) but several geochemical surveys have shown it to be unmineralized. Consistent with what I have seen elsewhere (Walker Lane, Nevada), mineralization is usually developed tangential to these zones, within the weakly altered and mildly fractured rocks to each side. As a working hypothesis, I feel the large surface area developed within the center of these major shear zones has a buffering affect on potentially ore-forming solutions. I feel that the solutions must evolve in a closed chemical environment, such as a vein, to precipitate anomalous quantities of metals. In shear or fault zones where the surface area of the rock is high, the chemistry of the solutions is mediated by the rock, not physical mechanisms such as boiling, temperature decrease or whatever which cause chemical precipitation in a localized area. Along McClair Creek the most likely areas for mineralization will be the slopes at the base of the escarpments. Unfortunately, these areas are buried deep in talus. Careful prospecting of loose boulders and available outcrops may uncover a vein in this area. Mineralization would be located in the vertical feeder structures, of the type which mineralized the flat faults on the JD property.

Photo No. 4 View of McClair Creek, looking south. Note prominent alteration.

A P P E N D I X V

Summary of Expenditures

Mets

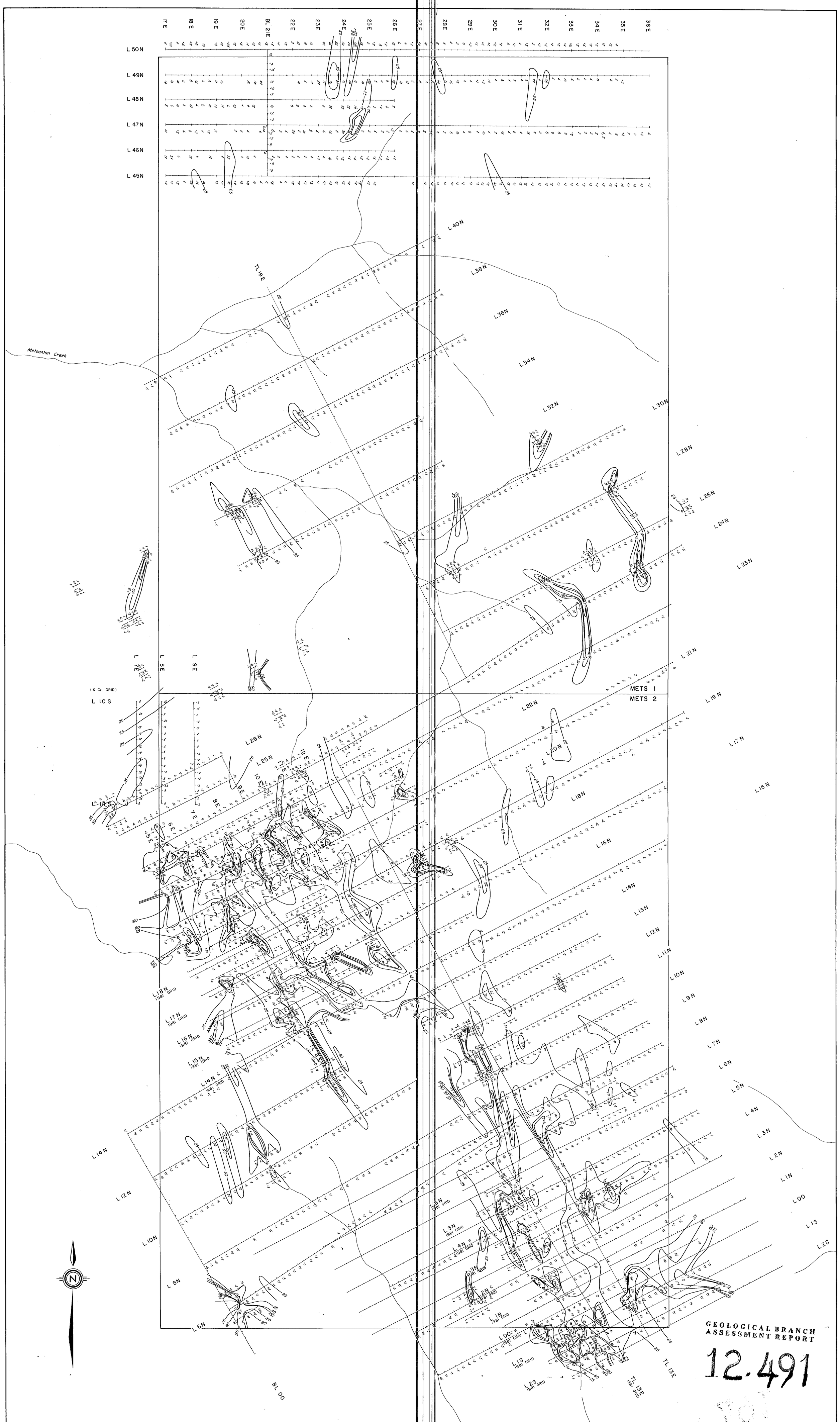
SUMMARY OF EXPENDITURES

PERSONNEL				
G. Wilson	Sep. 9-15	7 days @ $250	1,750.00	
M. O'Donnell	Sep. 9-24	16 days @ $130	2,080.00	
B. Charles	Sep. 8-17	10 days @ $164	1,640.00	
R. Bell	Sep. 8-17	10 days @ $147	1,470.00	
D. McLeod	Sep. 8-17	11 days @ $123	1,353.00	
S. Hardlotte	Sep. 17-24	8 days @ $180	1,440.00	
F. Cook	Sep. 17-24	8 days @ $213	1,704.00	
D. Dancer	Sep. 16-24	9 days @ $115	1,035.00	
		79 man days		12,472.00
CAMP AND ACCOMMODATION		79 man days @ $34.00		2,686.00
TRAVEL EXPENSES		79 man days @ $13.71		1,083.09
FUEL		79 man days @ $ 1.96		154.84
EXPEDITING		79 man days @ $ 3.87		305.73
COURIER AND FREIGHT		79 man days @ $ 5.91		466.89
DISPOSABLE SUPPLIES		79 man days @ $ 5.25		414.75
MISCELLANEOUS		79 man days @ $ 2.98		235.42
HANDLING CHARGES		79 man days @ $ 4.52		357.08
TRANSPORTATION		79 man days @ $14.34		1,132.86
EQUIPMENT RENTALS		79 man days @ $11.58		914.82
FIXED-WING SUPPORT		79 man days @ $23.20		1,832.80
HELICOPTER				
Sep. 8	3.80 hours		2,158.40	
Sep. 9	2.05 hours		776.27	
Sep. 10	1.15 hours		653.20	
Sep. 12	0.70 hour		397.60	
Sep. 16	0.40 hour		227.20	
Sep. 17	0.25 hour		198.80	
Sep. 19	0.25 hour		142.00	
Sep. 20	0.10 hour		56.80	
Sep. 22	0.60 hour		340.80	
Sep. 24	0.35 hour		198.80	
Sep. 24	4.20 hours		2,385.60	
	13.85 hours			7,535.47
GEOCHEMICAL ANALYSES				
1,010 soil samples @ $8.60/each			8,686.00	
90 rock samples @ $9.80/each			882.00	9,568.00
POST-FIELD	data plotting		1,816.25	
	drafting		528.00	
	secretarial		56.00	
	reproductions		226.40	2,626.65
				$ 41,786.40

SCHEDULE A - PRO RATA COSTS

Exlusive of Personnel charges, Camp & Accommodation, Helicopter Support, and Post-Field Expenses (which are direct costs), all other costs are applied on a pro rata basis to the various claim blocks using a per-man-day formula (the entire project required 297 man days).

	Project Gross	Per Man Day
TRAVEL EXPENSES	4,073.06	13.71
FUEL	581.15	1.96
EXPEDITING	1,150.00	3.87
COURIER AND FREIGHT	1,754.90	5.91
DISPOSABLE SUPPLIES	1,557.91	5.25
MISCELLANEOUS: telephone, photocopying, maps, contract drafting (land update)	887.00	2.98
HANDLING CHARGES on third-party expenses	1,344.56	4.52
TRANSPORTATION 4x4 truck and 3/4-ton van	4,260.00	14.34
EQUIPMENT RENTALS two SBX-11 transceiver radios one Geonics VLF-EM-16 one proton magnetometer / base station	3,440.00	11.58
FIXED-WING SUPPORT	6,892.48	23.20
	$ 25,941.06	$ 87.33



Contour interval: 25, 80, 160, >320 ppb

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Signature
Date
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The Association of Professional Engineers, Geologists and Geophysicists of Alberta

GOLDEN RULE RESOURCES LTD.

CHAPPELLE PROJECT
METS CLAIMS

Au SOIL GEOCHEMISTRY (ppb)

DATE OCTOBER, 1983	NTS 94 E/6
PROJECT GR-BC-7	MAPPED/ DRAWN BY G. WILSON
SCALE 1:5000	0 50 100 150 200 250 METRES
TAIGA CONSULTANTS LTD	MAP

Revised: October, 1985

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12.491

Contour interval: 1, 3, >5 ppm

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Date Feb 15, 1984
PERMIT NUMBER: P 2309
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GOLDEN RULE RESOURCES LTD.

CHAPPELLE PROJECT
METS CLAIMS

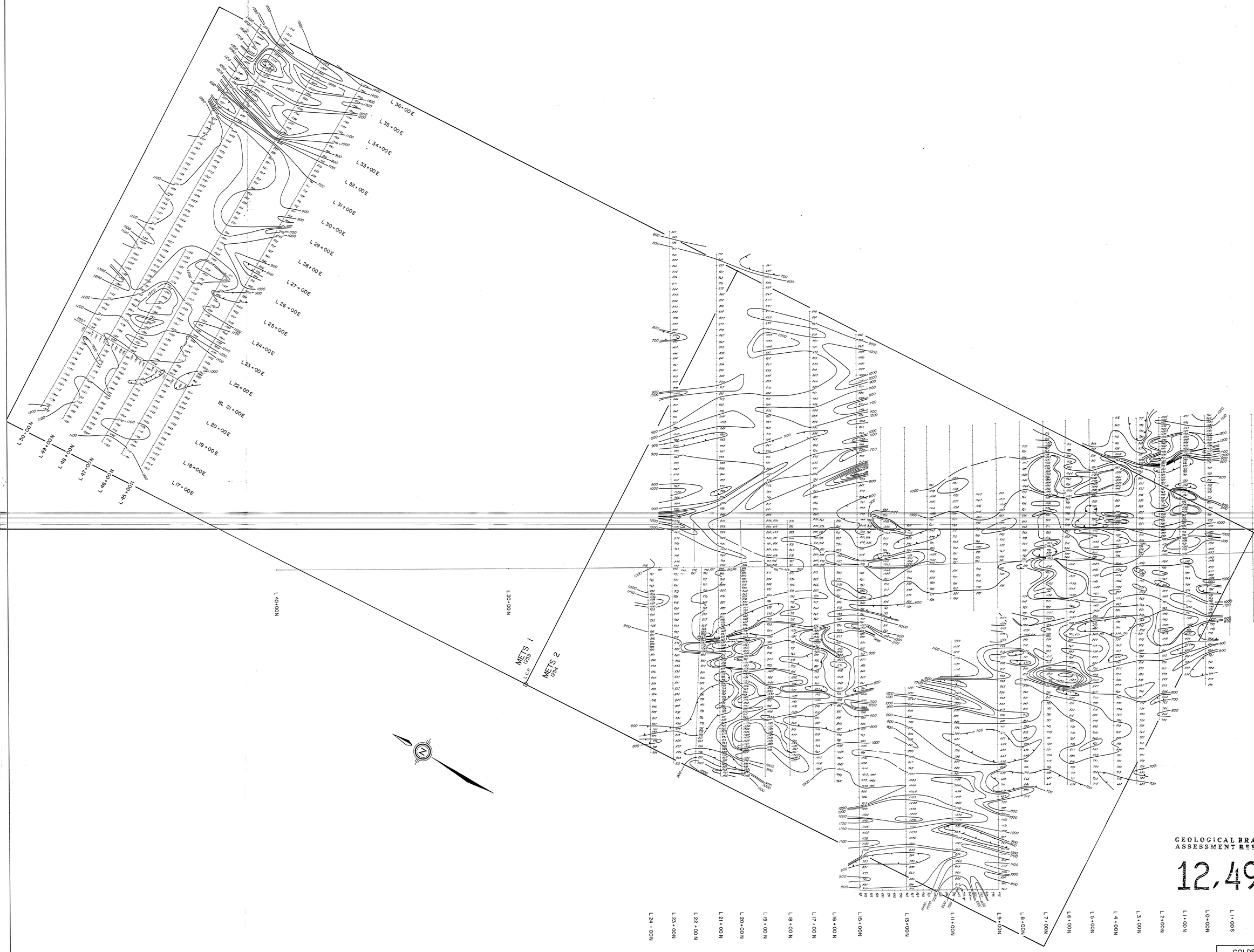
Ag SOIL GEOCHEMISTRY (ppm)

DATE OCTOBER, 1983	NTS 94 E/6
PROJECT GR-BC-7	MAPPED/ DRAWN BY G. WILSON
SCALE 1:5000	0 50 100 150 200 250 METRES
TAIGA CONSULTANTS LTD	MAP

Revised: October, 1983

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,491

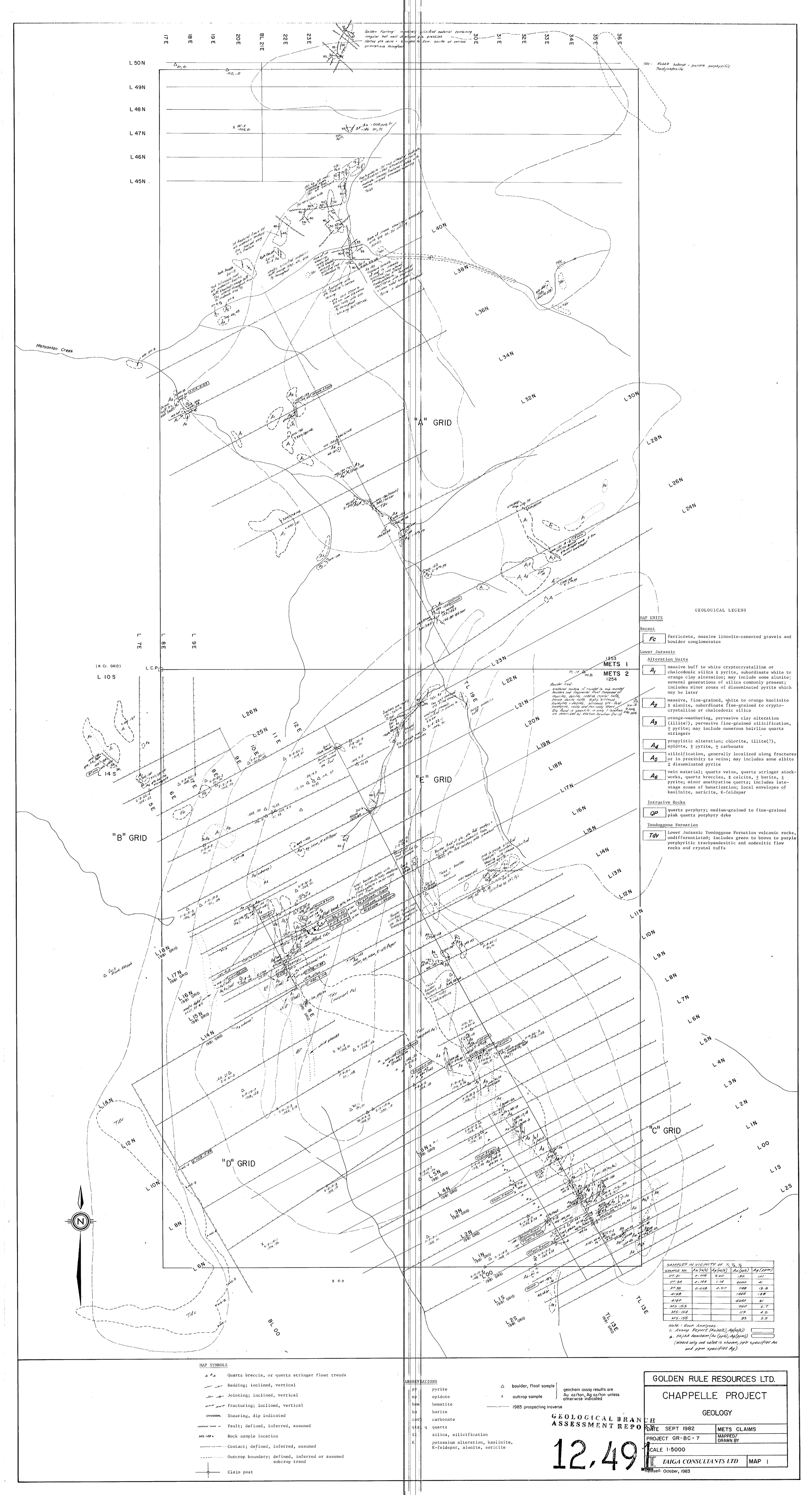


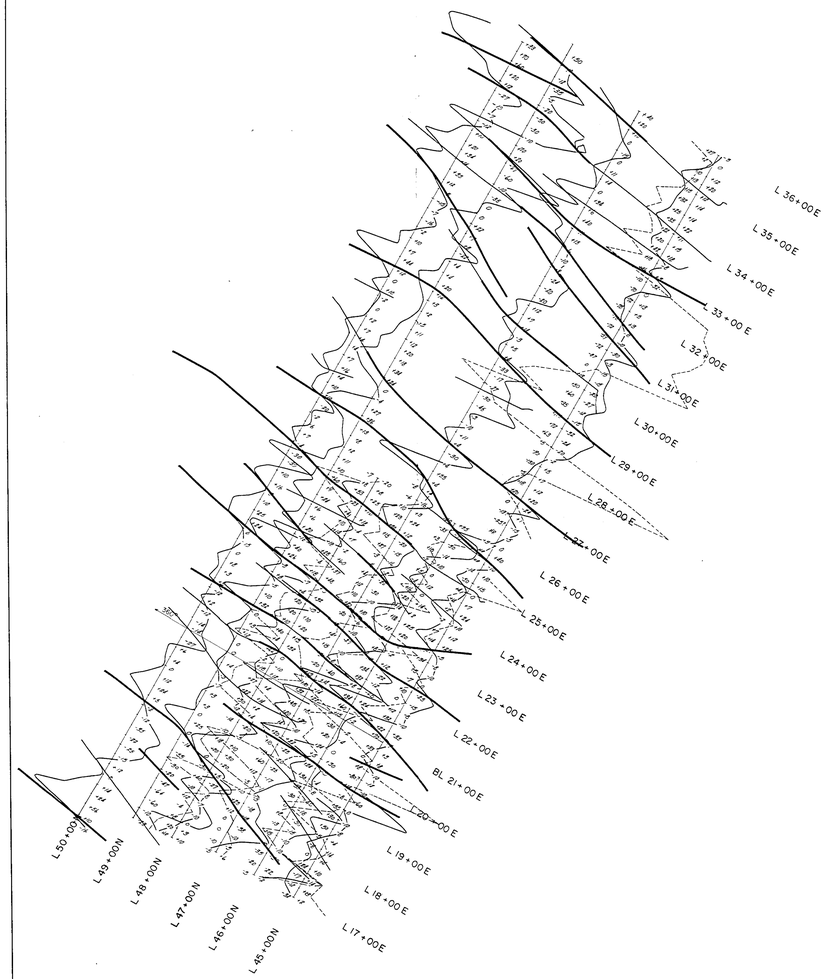
GEOLOGICAL BRANCH
ASSESSMENT REPORT

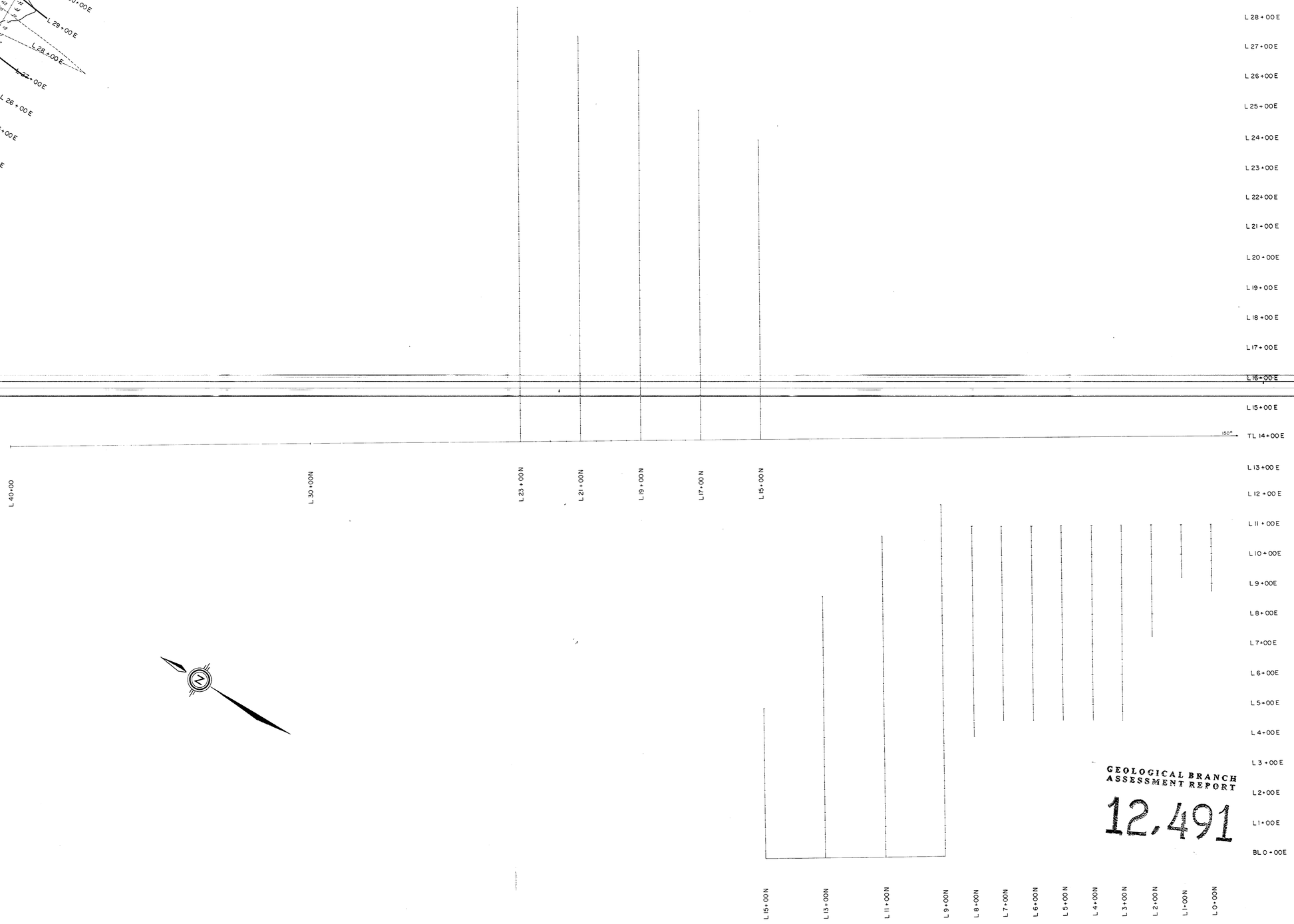
12,491

Instrument: Scintrex MP-2 Proton Magnetometer
Operator:
Add 58,000 to all readings plotted
Contour interval: 100 nanoteslas

GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT METS CLAIMS MAGNETOMETER SURVEY	
DATE OCTOBER, 1983	NTS 94 E/6
PROJECT GR-BC-7	MAPPED/DRAWN BY G. WILSON
SCALE 1:5000 (0 50 100 150 200 250 METRES)	
TAIGA CONSULTANTS LTD	MAP


"A" GRID
"B" GRID
"C" GRID
"D" GRID
"E" GRID
METS 1
1253
METS 2
1254
Metsantan Creek
L 50N
L 49N
L 48N
L 47N
L 46N
L 45N
L 40N
L 38N
L 36N
L 34N
L 32N
L 30N
L 28N
L 26N
L 24N
L 23N
L 22N
L 21N
L 20N
L 19N
L 18N
L 17N
L 16N
L 15N
L 14N
L 13N
L 12N
L 11N
L 10N
L 9N
L 8N
L 7N
L 6N
L 5N
L 4N
L 3N
L 2N
L 1N
L 00
L 1S
L 2S
L 10 S
L 14 S
L 7E
L 8E
L 9E
BL 21E
BL 00
TL 13E
17E
18E
19E
20E
22E
23E
30E
31E
32E
33E
34E
35E
36E
L.C.P.
(X Cr. GRID)
1981 GRID
GEOLOGICAL LEGEND
MAP UNITS
Recent
Fc
Ferricrete, massive limonite-cemented gravels and boulder conglomerates
Lower Jurassic
Alteration Units
A1
massive buff to white cryptocrystalline or chalcedonic silica ± pyrite, subordinate white to orange clay alteration; may include some alunite; several generations of silica commonly present; includes minor zones of disseminated pyrite which may be later
A2
massive, fine-grained, white to orange kaolinite ± alunite, subordinate fine-grained to crypto-crystalline or chalcedonic silica
A3
orange-weathering, pervasive clay alteration (illite(?)), pervasive fine-grained silicification, ± pyrite; may include numerous hairline quartz stringers
A4
propylitic alteration; chlorite, illite(?), epidote, ± pyrite, ± carbonate
A5
silicification, generally localized along fractures or in proximity to veins; may includes some albite ± disseminated pyrite
A6
vein material; quartz veins, quartz stringer stock-works, quartz breccias, ± calcite, ± barite, ± pyrite; minor amethystine quartz; includes late-stage zones of hematization; local envelopes of kaolinite, sericite, K-feldspar
Intrusive Rocks
QP
quartz porphyry; medium-grained to fine-grained pink quartz porphyry dyke
Toodoggone Formation
Tdv
Lower Jurassic Toodoggone Formation volcanic rocks, undifferentiated; includes green to brown to purple porphyritic trachyandesitic and andesitic flow rocks and crystal tuffs
MAP SYMBOLS
Quartz breccia, or quartz stringer float trends
Bedding; inclined, vertical
Jointing; inclined, vertical
Fracturing; inclined, vertical
Shearing, dip indicated
Fault; defined, inferred, assumed
Rock sample location
Contact; defined, inferred, assumed
Outcrop boundary; defined, inferred or assumed subcrop trend
Claim post
boulder, float sample
outcrop sample
geochem assay results are Au oz/ton, Ag oz/ton unless otherwise indicated
1983 prospecting traverse
ABBREVIATIONS
py pyrite
ep epidote
hem hematite
ba barite
carb carbonate
qtz, q quartz
Si silica, silicification
K potassium alteration, kaolinite, K-feldspar, alunite, sericite
SAMPLES IN VICINITY OF T, T2, T3
SAMPLE No. | As (m/m) | Ag (oz/t) | Au (ppb) | Ag (ppm)
91-21 | 0.145 | 3.20 | 182 | 111
91-24 | 2.184 | 1.14 | 6000 | 41
91-26 | 0.028 | 0.57 | 988 | 13.6
A158 | | | 1466 | 149
A160 | | | 4240 | 91
MS-153 | | | 960 | 6.7
MS-154 | | | 113 | 4.2
MS-156 | | | 85 | 5.5
Note: Rock Analyses
1. Assay Reports (Au (oz/t), Ag (oz/t))
2. FA/AA Reactions (Au (ppb), Ag (ppm))
(Where only one value is shown, ppb specifies Au and ppm specifies Ag)
GOLDEN RULE RESOURCES LTD.
CHAPPELLE PROJECT
GEOLOGY
DATE SEPT 1982
METS CLAIMS
PROJECT GR-BC-7
MAPPED/DRAWN BY
SCALE 1:5000
TAIGA CONSULTANTS LTD
MAP 1
Revised: October, 1983
GEOLOGICAL BRANCH
ASSESSMENT REPORT
12,491





Instrument: VLF - EM 16
Operator: M. O'Donnell
In Phase Station: Cutler, Maine

Positive dip: west
Negative dip: east
Out of Phase | In Phase
Profile scale: 1 cm = 20%
Conductor axis

GEOLOGICAL BRANCH
ASSESSMENT REPORT

12,491

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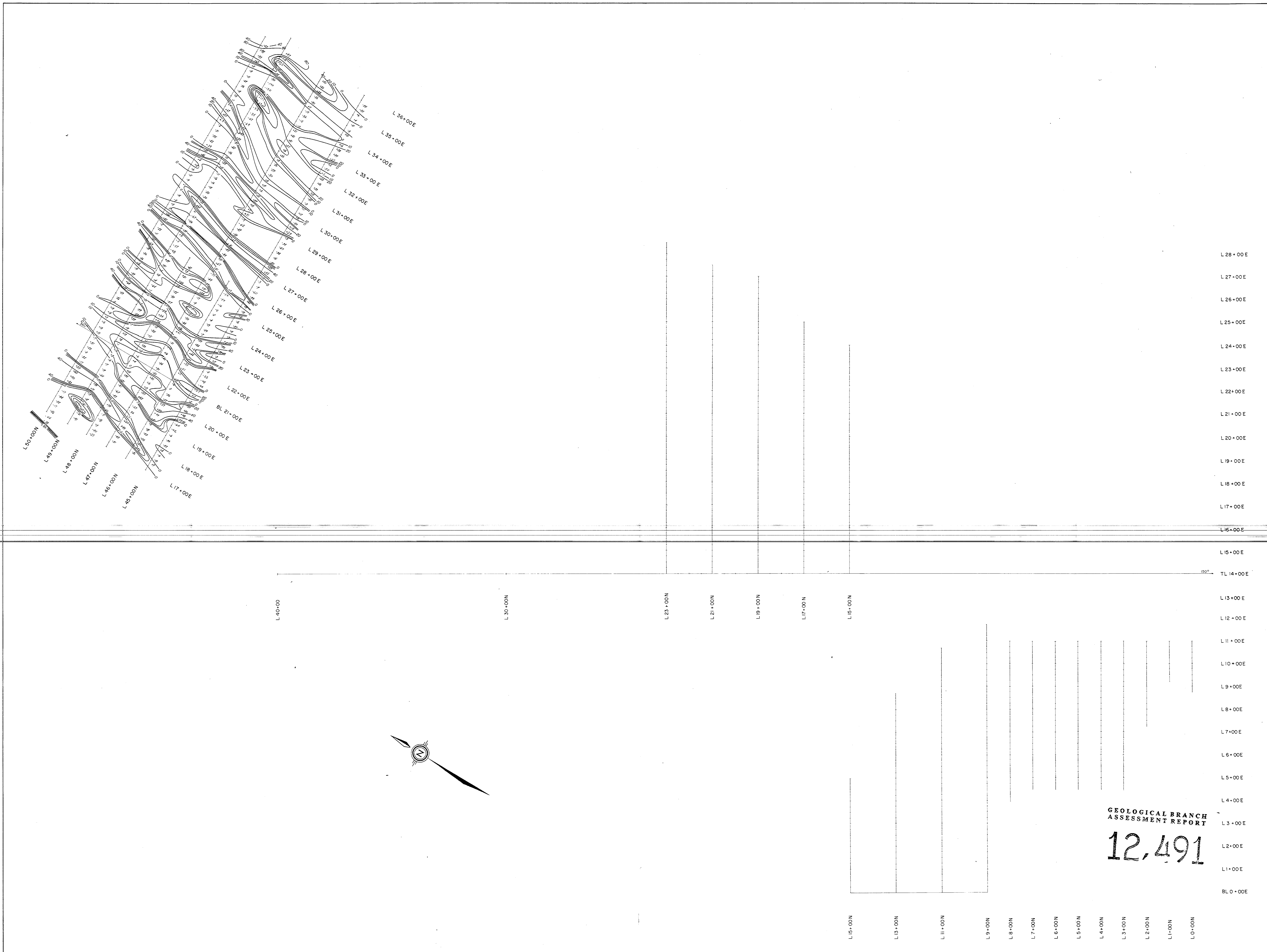
GOLDEN RULE RESOURCES LTD.	
CHAPPELLE PROJECT METS CLAIMS VLF - EM PROFILES	
DATE OCTOBER, 1983	NTS 94 E/6
PROJECT GR-BC-7	MAPPED/ DRAWN BY G. WILSON
SCALE 1:5000 0 50 100 150 200 250 METRES	
TAIGA CONSULTANTS LTD	MAP



Contour interval: 0,10,20,40,80,160

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GOLDEN RULE RESOURCES LTD.

CHAPPELLE PROJECT
METS CLAIMS

FRASER FILTERED VLF-EM

DATE OCTOBER, 1983	NTS 94 E/6
PROJECT GR-BC-7	MAPPED/ DRAWN BY G. WILSON
SCALE 1:5000 (0 50 100 150 200 250 METRES)	
TAIGA CONSULTANTS LTD	MAP