RLPORT ON THE GEOLOGY, SOIL GEOCHEMISTRY T.C. 1-8 MINERAL CLAIMS RECORD NO. PENDING

> YMIR AREA NELSON MINING DIVISION, BRITISH COLUMBIA

82F/6E 49°16'30"N Latitude 117°12'W Longitude

Prepared for

GRID RESOURCES LTD. 1075 Duchess Avenue West Vancouver, B.C.

Prepared by

B. TAYLOR, P.Eng. G.A. NOEL & ASSOCIATES INC. GEOLOGICUX E, B⁸RANCH ASSESSMENT REPORT



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SUMMARY

The eight unit T.C. 1-8 claims are situated approximately 3 kilometres south of the settlement of Ymir, on the east side of the Salmon River.

A basic program of line flagging and soil sampling has been completed. There are no known mineralized showings on the claims. However, the claims lie between a former gold, silver, lead, zinc producer and a zinc, lead, silver prospect. Favourable Ymir group sediments and Nelson granodiorite underlie the property.

It is recommended that more soil sampling, prospecting, geological mapping and some geophysical work be carried out in the favourable area between the two mines. This is estimated to cost \$20,300.00 in a first phase with an additional \$30,000.0∉ to be held in reserve for possible diamond drilling, making a total of \$50,3-00.00.

INTRODUCTION

The writer visited the property June 8-9th, 1983, in the company of Gordon and Shirley McIlroy. They were flagging grid lines and collecting soil samples. This is a summary of the information gleaned from a study of government records and the visit to the property.

PROPERTY

The property has been staked and recorded as a group of eight two-post claims.

Claim Name	Record No.	Expiry Date	Ownership
T.C. 1	Pending	April 9, 1984	T. Charlesworth
T.C.2			
T.C. 3			. · · ·
T.C. 4			
T.C. 5			
T.C. 6			
T.C. 7	••		
T.C. 8			

The claims overlap a number of crown granted mineral claims. The approximate resulting shape of the ground is as shown on Figure 2.

Elevation varies from 700 to 1250 metres above sea level.

TOPOGRAPHY

The property lies on a ridge climbing the southwestern portion of Jubilee Mountain. It extends from near the junction of Porcupine Creek with the Salmon River northeasterly for nearly two kilometres.

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Access to the ground is via Highway 6. Approximately 2 kilometres south of Ymir a gravel road leads to the east along Porcupine Creek. The Burlington Northern railroad and the Salmo River are crossed immediately after turning off the highway. A small wooden bridge crosses the Porcupine Creek on the left within another 200 metres. This trail crosses the property to join the road to the Centre Star Mine road.

The Initial Post for T.C. 1 and 2 is located 180 metres east and 50 metres north of the junction of Porcupine Creek with the Salmo River. The centre line of the claim group runs at an azimuth of 070°

TOPOGRAPHY & VEGETATION

The area lies within the Nelson Range of the Selkirk Mountains. The mountain slope is moderate to steep and of an even gradient. Rock outcrops are sparse, although overburden is not heavy. In the Salmo River Valley it is wide enough to support some arable land along its banks from a combination of erosion and silt and gravel deposits.

The area is forest covered throughout, with second growth fir and spruce interspersed with alder and poplar.

HISTORY

The area has a history of mineral exploration dating back to the 1870's, when the Hall brothers staked ground near the headwaters of Ymir Creek. In 1892 the first mill was operating. The Ymir camp was very active from 1896 to 1904. A revival of mining activity was experienced in 1934 to 1940 caused by an increase in the price of gold. Yankee Girl, Ymir, and the Centre Star have all produced important amounts of silver and gold. There has been little or no production from the Ymir camp for the past thirty years.

6.

GEOLOGY

The area is underlain by the Ymir group of rocks of Lower Jurassic age and possibly older. These are a series of sediments which outcrops along a northerly striking band two to five kilometres wide. Thickness is unknown, but at a minimum it is a thousand metres. A prominently banded argillaceous quartzite member of 125 metres thickness is overlain by argillaceous quartzite, argillite and slate. Near the top of the group are sill-like bodies that may be Rossland andesite or thin flows. The beds were highly folded at the time of the emplacement of the Nelson batholith. Outcrops on the property consisted of the banded quartzite dipping easterly at 20-60 degrees.

Intruding this and other series of rocks are the Nelson Plutonic rocks, formerly known as the Nelson granite. This is a widespread intrusive of batholithic proportions. In the vicinity of Ymir it is a porphyitic granite, a coarse, grey rock that contains white to flesh coloured phenocrysts of twinned alkali feldspar.

A contact between the two rocks crosses the property. This would appear to be the most favourable position for precious metal deposition.

MINERALIZATION

No mineral showings are known on the T.C. ground, but showings exist on both sides. One sample was taken from a narrow quartz vein. There were no values.

The Centre Star workings were visited, and the dumps examined. Most of the rock was quartzite, with only a few specimens of pyrite, galena and sphalerite being seen. The mine produced 56,275 tons of ore with a recovered grade of .22 oz/ton Au; 1.67 oz/ton Ag; 1.88 %Pb and .93%Zn. It was described by McAllister in 1948 as lying in a broad contact zone between the Nelson batholith and rocks of the Ymir gangue striking at an azimuth of 60 to 80 and dipping steeply to the northwest."

The Dewey workings lie on the south side of the T.C. claims. There has been no production recorded from them. However, a small area of tailings is present at the junction of Porcupine Creek with the Salmon River, and by inference it is at least in part their source.

The same geological conditions that gave rise to the Centre Star and Dewey deposits crosses the T.C. claims between the two deposits. The contact between the two rock types is shown on the claim map Figure 2. It was taken from Geological Survey of Canada's map 1144A.

LINE MARKING

Approximately ten kilometres of line were flagged. These were measured by Top-o-chain, marked with two colours of flagging. Stations, including those along the base line were marked with orange flagging at 100 metre intervals. Lines were run parallel to the centre line of the claims (070° azimuth). The lines were lettered in 50 metre intervals thus only every other letter was used to designate a line. Stations on the lines were numbered from west to east.

GEOCHEMISTRY

The stations this marked were soil sampled, taking material from the B soil horizon. A total of 121 samples were analyzed by Min-En Laboratory in North Vancouver. The results are plotted as Figure 3 to 7 inclusive, and copies of the certificate of analysis appended.

Gold

Figure 3 shows the distribution of gold in soils. The highest readings were taken along the Salmo River. The tailings at the outlet of Porcupine Creek were sampled to obtain a geochemical signature of known mineral. The other high readings probably are due to contamination from tailings of other mills previously located higher upstream on the Salmo River. The site should be inspected for recent silting. There is a possibility, however, that they do represent gold in place.

Anomalous values of a much lower order are recorded near the granite-sediment contact and shoud be prospected and soil sampled on a 25 metre grid.

Silver

Silver values exist along the Salmo River as well, and probably for the same reason as for the anomalous gold. The remaining values uphill to the east are very subdued and are all background. See Figure 4.

Zinc

The high values are more diversified than the gold and silver were. High values exist along the river. However, anomalous values exist in T.C. 1,3, and 5. The values in T.C. 5 re-inforce the validity of the gold values at the same place. See Figure 5.

Lead

Anomalous lead values exist only close to the Salmo River. They are probably contamination by tailing, but should be checked and resampled at fifty metre intervals. See Figure 6.

Copper

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Not all soil samples were analyzed for copper. All values received are in the background range. See Figure 7.

<u>To Summarize</u> high values exist along the Salmo River. This area should be checked for probable contamination before trending or rock sampling (if exposures exist). Weakly anomalous gold and zinc values exist in T.C.5. These should be checked out by sampling at closer intervals and detailed prospecting.

CONCLUSIONS AND RECOMMENDATIONS

1. The T.C. group of claims have very good location. They lie between two previously known showings, one a substantial gold, silver, lead, zinc producer.

2. The soil sampling disclosed an area beside the Salmon River which possibly is contaminated with old tailings.

3. Additional soil sampling at closer intervals is required in T.C.5, and portions of 1,2,6,7, and 8.

4. Geological mapping and study is required to piece together the known mineralization on either side of the claims and to intensify the prospecting in the most favourable area.

COST ESTIMATE

Phase I

Soil Sampling

Collect approximately 100 more samples	600.00
@ \$6.00 /sample	000.00
Geochemical analysis	1,000.00
Geology	
Geologist 7 days @\$350/day	2,450.00
Report	550.00
Expenses	
Accomodation and food 25 man-days @\$40/day	1,000.00
Vehicle Rental for 10 days	700.00
Geophysical	
Induced polarizatjon - resistivity survey over quartzite-granite contact, report	8,000.00
Trenching	
	5,000.00
Contingencies	1,000.00
	\$ 20,300.00

Phase II		
Reserve for diamond drilling		30,000.00
	Total Phase II	\$30,000.00
	Total Phase I & II	\$503 00.00

Respectfully submitted

B. Taylor. B. TAYLOR, P.Eng.

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CERTIFICATE

- 1. Bert Taylor, do hereby certify that:
- 1 am a practicing geological engineer with G.A. Noel & Associates Inc., 721 - 602 West Hastings Street, Vancouver, B.C.
- 1 am a graduate of the University of Saskatchewan and have been granted the degree of Bachelor of Science in Geological Engineering.
- I have been practicing my profession as a geological engineer for over 25 years.
- I am a member of the Association of Professional Engineers of British Columbia, Registration No. 7879.
- I have no interest, nor expect to receive any interest, direct or indirect in the properties or securities of Grid Resources Ltd.
- 6. The information in this report is from the soil sampling that was done on behalf of the Company and of which I have knowledge, of government reports as listed in the bibliography and a visit to the property on June 8-9th, 1983.
- Grid Resources Ltd. is hereby authorized to use this report, or any part of it, for the purpose of financing or as otherwise required by regulatory authorities as long as nothing is taken out of context.

Dated at Vancouver, B.C. this 24th day of July, 1983.

B. Taylor. B. TAYLOR, P.Eng.

REFERENCES

1.	Little, H.W. Nelson Map Area, West Half, B.C. Geological Survey of Canada Memior 308	1960
2.	McAllister, A.L. Ymir Map Area, British Columbia Geological Survey of Canada pp.51-4	1951
3.	Little, H.W. et al Geology, Ymir, Nelson East Half British Columbia Map 1144A	1964
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6.	B.C.D.M. Annual Report 1926 page 276 1927 page 303	

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APPENDIX A

Geochem Analysis Data Sheets

N.

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MIN-EN Laboratories Ltd.

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705 WEST 15th STREET, NORTH VANCOUVER, B.C., CANADA V7M 1T2 TELEPHONE (604) 980-5814

ANALYTICAL REPORT

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File No. 3-400)	Date samples received	June 20/83.
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CERTIFIED BY.

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MIN-EN LABORATORIES LTD.

705 WEST 15TH STREET, NORTH VANCOUVER, B.C. V7M 1T2 PHONE: (604) 980-5814 OR (604) 988-4524

Certificate of Assay

Grid	Resc	urce	s Ltd.,
	and the second sec	and the second	

TO:___

PROJECT No____

1075 Duchess Ave.,

West Vancouver, B.C.

DATE: June 27/83.

SAMPLE No.	PD &	2n 4	Ag	Au	
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MIN-EN Laboratories Ltd.

705 WEST 15th STREET, NORTH VANCOUVER, B.C., CANADA V7M 1T2 TELEPHONE (604) 980-5814

ANALYTICAL REPORT

Project		Date of report	May 30/83.
File No.	3-296		eived May 25/83.
Samples submitter	by: SE Te	d Charlesworth	
c	Cadd	Pagauraas	
Company:	GILG	Resources	
Report on:		49 soils	Geochem sample
			Assay sample
Copies sent to:	Grid Reso	urces West Vancouv	er B C
1.	GIIG RESO	urces, west vancouv	er, b.0.
2.			
3.			
Samples: Sieved	to mesh 8	0 Ground to mesh .	
Prepared samples	stored 🕱	discorded	
rejects	stored	discorded	
Methods of analys	is: Cu,Pb,Zn	,Ag-nitric,perchlor:	ic digestion.A.A.,
Au-aqua re	gia.A.A.		
Remarks:		****	1
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Grid Resources COMPA.

GEOCHEMICAL ANALYSIS DATA SHEET

MIN - EN Laboratories Ltd.

F. No. 3-296

1. 20

PROJECT No .:

DATE: May 30

ATTENTION:	Ted	Char	leswo	rth	7	05 WEST 151	HONE (6	VANCOUVE 04) 980-5814	P, B.C. V7A	8 172					1983.
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Grid Resources

GEOCHEMICAL ANALYSIS DATA SHEET

PROJECT No.

MIN - EN Laboratories Ltd. 705 WEST 15th ST., NORTH VANCOUVER, B.C. V7M 1T2

DATE: May 30.

Ted Charlesworth ATTENTION: 15 20 30 25 Sample. Mo Cu Pb Zn Ni

1983. PHONE (604) 980-5814 35 40 45 50 55 60 65 70 75 80 Co Fe Hg As Ag Mn Au Number ppm dqq ppm ppm DDm ppm ppm ppm ppm ppb ppm ppm 81 86 90 95 100 105 :10 115 120 125 130 135 140 145 150 155 160 10.9 1 1 23 1.12:0.5 1.1.3.0 LL 0*8 1.1.1 LI I I I J J F I I - Linkster 1111 LITE 111511111 Labort I. 1.1.1.1 1111 1 12.8 4.8 215.5 010 ... 1 1 1 0.8 TILL 1 5 1 3.0 . 2.0.0 01111 24 . 0.9 1 1 1 35 1 1 1 1 J L L L 012 ,21 .2.5 146 . 0.7 1 1 1 1.1.1.1 5 a ta r 013 15 3.2 1.6.6 0.8 014 ... 20 1.33 15.2 0.8 1.1.1. 1, 10 111111111 1.1.1.1. LILL ILLL. 1.1.1.1 1111 1.1 1 1 0.1.5 1.9 6.0 163 1 1 1 1 1 1 1 1111 1113 1 1 1 1 1111 1 1 1 1 1 1 1 1 1 1 1 01.6 2.4 46 1 2115 1.1:0 1.1.1 1.1.1.1 1 5 1111 1.1.1.1 111 E 1 1 1 1 1 , 2,1,5 017 1.8 .6.6 1.0 10 1111 1 1 1 1 1 1 1.1.1.1. 1.1.1.1 1111 111 1 1 1.1.1.1 0.1.8 28 210 0.8 5 Q: 19: 1 1 .3.2 2.8 29.0 1.0 1 1 1 E 1: 1.1 1111 1 1 1 1 1 1.1.1 111 1111 1.1.1.1 1 1 1 1 1.0 3.4 3.8 . 365 1:0 5 1 1111 1 1 1 1 1. 1.1.1.1 1.1.1.1 2.2 27 . 210 . .1.1. 1:0 1 1 1 10 1 1 1 1 1 1 1 1 1 1 1 4 1 4 1.1.4 LATE 5 1 4 1 1 1 1 2.4 . . . 3.6 , 20.5 1.2 0.9 1 1 1 1111 1 1 1 1 1 1.1.1.1 1 . 1 . 1-1-1 1 1 1 1 1 4 1 1 1.3 1.9 28 194 1.1.1 1.1 5 1.1.4 2.2 1, 3.2 3.3.5 . 0.9 1 1 1 + 1 1 1 1 1 1111 ,5 TIFI 1111 1 1 1 F 1111 1111 1 1 1 1 15.1 4.8 0.8 1.7 190 25 1 1 1 1 1 1 1 J E I I 1.1.1.1 1111 1.1.1.1 1111 1.1.1.1. 1 1.1.1.1 1.8 1 1.6 4.0 1,7,2 0.9 1 1 1 111 6 7 1 2 1 1111 1 1 1 1 1 1.7 ,2,2 4.8 1,9,8 0.8 1 1 1 1.1.1.1 1 1 1 T LILL 1.1.1.1 1.1.1.1 1 1 1 1 1.1.1.1 1.8 22 3.8 0. 3.2.0 1.2 5 1111 1111 1111 LI LA LA LA 1111 LELE 1.1.1.1 1111 JILI LIL 1 1 1 1 1 1 1.1.1.1 1.1.1.1 LIDE 1.1 1.1 L L L I. I d L I 1 1 1 1 1 1 1-1 1 1 1 1 1 1 1 1 1 1 1 1 LLI 1.1.1 1 1 1 1 1 1 1 1.1.1 1 1 1 1 1 1111 I Jul I F.J.L.L 1 1 1 1 LI I I I I I I I I Lat I _1. I. I. J. 1 1 1 1 411 1111 1 1 1 . 1. 1. 6. 1 LLL 1111 4 1 1 1 1.1.1.1 1111 1.1.1 1111 1119 1.1.1.1 10 FIII 1 1 1 1 1.1.1.1 1 1 1 1 1 1 1 1 1 Jul Int 1.1.1.1 1.1 I E I I 1-1-1 1 1.1. - L Lala I 1 1 1 1 1 1 1 1 1 1 1 1 1.1.1.1

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EXPENSE STATEMENT May 16 - June 13, 1983

Labour

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B. Taylor.	010 988
veologist Examination and report.	1,925
Soil Analysis 151 samples, analyzed for Au,Ag, Pb,Zn.	:1;210
Une truck and one car, two round trips from Vancouver, including gasoline and oil - 6,400 km w15¢	960
Transportation	
Accommodation - campground - trailer 22 days @ \$10.00	133 220
Supplies and equipment	390
Food - 22 days @ \$25.00 per day	550
One person 10 hours per day # \$12.00 per hour for 10 days J.E. Cha-leumeth	1,200
Supervision	
Two persons 10 hours per day © \$10.00 per hour for 22 days S.T. M. Il-oy + C. E. M. Il-oy	\$4,400

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