

ARIS SUMMARY SHEET

District Geologist, Nelson

Off Confidential: 89.08.08

ASSESSMENT REPORT 17985

MINING DIVISION: Nelson

PROPERTY: Ymir-Belle
LOCATION: LAT 49 20 00 LONG 117 07 00
UTM 11 5464299 491523
NTS 082F06E

CLAIM(S): Ymir, Belle
OPERATOR(S): Bourdon, R. Pittman, C.
AUTHOR(S): Allen, D.G.
REPORT YEAR: 1988, 21 Pages

COMMODITIES
SEARCHED FOR: Gold
GEOLOGICAL

SUMMARY: The property is underlain by granodiorite of the Nelson Intrusions. Quartz veins occur locally in shear zones and as fissure fillings which trend east to northeast. Mineralization consists of pyrite, galena and sphalerite with associated gold values.

WORK
DONE: Geochemical, Geophysical, Prospecting
EMGR 0.7 km; VLF
LINE 0.7 km
PROS 325.0 ha
ROCK 7 sample(s) ; AU, ME
SOIL 27 sample(s) ; AU, ME
MINFILE: 082FSW194



exploration ltd.

GEOLOGY · GEOPHYSICS
MINING ENGINEERING

Suite #704-850 WEST HASTINGS STREET, VANCOUVER, B.C.
TELEPHONE (604) 681-3191

LOG NO	1115	V6C 1E1 RD.
ACTION:		
FILE NO:		

GEOCHEMICAL, GEOPHYSICAL

and

PROSPECTING REPORT

on the

YMIR-BELLE PROPERTY

Nelson Mining Division - British Columbia

Lat. 49° 22' N

Long. 117° 07' W

N.T.S. 82F/6E

FILMED

for

R. BOURDON

and

G. PITTMAN

SUB-RECORDER
RECEIVED
NOV 7 1988
M.R. # \$
VANCOUVER, B.C.

GEOLOGICAL BRANCH
ASSESSMENT REPORT

by

17,985

Donald G. Allen, P. Eng. (B.C.)

October 4, 1988

Vancouver, B.C.

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INTRODUCTION

The YMIR-BELLE property comprises 14 claim units in the Ymir gold camp of southeastern British Columbia. The claims cover at least three veins which are developed by a number of pits and one shaft which is reported to be 44 metres deep.

The purpose of this report is to summarize results of prospecting, reconnaissance geochemical sampling, and a VLF-electromagnetic survey, carried out on August 8, 1988 by J. Murray, C. Pittman, J. Cuvelier and the writer. The main dumps were sampled and a flagged line was established across the YMIR-BELLE and New Victor veins. Soil sampling and VLF-electromagnetic readings were taken at 25 metre intervals along the line to determine the usefulness of such surveys to detect similar veins in overburden-covered areas.

LOCATION, ACCESS, PHYSIOGRAPHY

The YMIR-BELLE property is situated 10 kilometres northeast of Ymir (Figures 1 and 2). The claims lie on the north side of Ymir Creek between elevations 1250 to 1800 metres (4,100 and 5,900 feet). Slopes are moderately steep and covered with a dense growth of slide alder, willow and local patches of immature conifer growth.

The property is readily accessible by gravel and dirt roads which lead northeasterly from Ymir and follow the valley bottom to the southern edge.

CLAIM DATA

The YMIR-BELLE property comprises 14 claim units as follows (see Figure 3):

<u>Claim Name</u>	<u>No. of Units</u>	<u>Record No.</u>	<u>Expiry Date</u> *
YMIR	9	4849	August 25, 1989
BELLE	4	3369	August 8, 1989
EXCELSIOR	1	3401	September 29, 1989

The claims are held by C. Pittman and R. Bourdon.

* Assuming that the work represented by this report is accepted for assessment purposes.

HISTORY

The history of the property dates back at least to 1917 when, Drysdale, (in the only published reference to the Ymir Belle property), reported that three veins exist on the property: two with E-W strikes and northerly dips (which may be the same vein), and a third with a N-S strike. The E-W vein consists of oxidized rock 2 to 3 feet wide, with disseminated pyrite, galena and sphalerite in a gangue of decomposed granite and gossaned quartz. "An average sample across the vein at the west end, near a shaft full of water, is reported to run \$9.00, (0.44 oz/ton gold); and 18" pay-streak farther east in a 45 foot shaft, on what may be the extension of the same vein, is said to have assayed \$41. (1.98 oz/ton gold). the northerly trending vein farther south is reported to have run \$30. (1.45 oz/ton). across 18 inches."

Again Drysdale, 1917: "Development consists of about 145 feet of sinking on the vein, besides small pits and open cuts." This shaft supposedly lies uphill from the Excelsior. Gerhard von Rosen, P. Eng., (1983), noted that the vein has been worked for a length of at least 70m, judging from old workings, and from his comments it appears that other areas of interest exist on the property.

In 1983 von Rosen prepared a report on the property for Spencar Explorations in which he recommended a three phase exploration programme of shaft dewatering and rehabilitation, sampling, geological and geochemical work, and possibly diamond drilling, at a cost totalling \$120,000.

In 1984 B. Fenwick-Wilson prepared a report on the property, also for Spencar Explorations, and conducted a small geochemical sampling programme. He took some samples from both the "A" and the "B" horizons, but reached no conclusions because of the limited nature of the programme, having insufficient funds to complete the survey. He did obtain assays of up to 1 oz/ton gold and 3 oz/ton silver from the dump besides the shaft. Fenwick-Wilson's stated intention was to return in 1985 and complete Rosen's recommended programme, but no further work has been done on the property.

GEOLOGY AND MINERALIZATION

The YMIR-BELLE property is underlain by granodiorite of the Nelson Intrusion. Foliation noted near the YMIR-BELLE which trends north-easterly (035°) and dips steeply to the southeast. Scattered roof pendants of mica schist and quartzite occur throughout. Quartz veins occur locally in shear zones and as fissure fillings which trend east to northeasterly. Quartz vein material observed on all three known veins contain abundant streaks and clots of pyrite.

GEOCHEMICAL SURVEY

Soil Survey

A total of 27 soil samples were collected along a flagged line which was established to cover both the YMIR-BELLE and New Victor veins (Figures 4 and 5). Samples were collected at 25 metre intervals (slope distances). Material sampled mainly included "B" horizon glacial till taken at depths of 20 to 30 centimetres. Samples were shipped to Rossbacher Laboratory Ltd. and analyzed for gold by standard atomic

absorption techniques. Sample pulps were then sent to Acme Analytical Laboratories for analysis of 30 elements by inductively coupled spectrometry. Results are included in Appendix II.

Sample sites are plotted on Figure 5 along with lead, zinc and anomalous gold values. Examination of the multielement data reveals that only that lead, zinc and gold occur in anomalous or interesting amounts. Lead values range from 134 to 1093 parts per million and zinc from 134 to 1093 parts per million. Both lead and zinc values appear to peak a short distance downslope from the known veins. Scattered weakly anomalous gold values (10 to 140 parts per billion) also appear to peak a short distance downslope. Cadmium and bismuth also show some tendency to increase at the same position. Most other potential pathfinder elements for gold are uniformly low.

Rock Sampling

Prospecting in the claim area revealed no other areas of interest apart from the samples collected on the main vein. Sampling of material obtained from the outcrops or dumps of the YMIR-BELLE and New Victor veins confirmed the presence of significant gold values (0.08 to 0.25 ounces per ton gold) from both veins. Also the veins are enriched with lead, zinc, silver and arsenic. Sample descriptions are presented in Table 1 and results in Appendix II.

VLF-ELECTROMAGNETIC SURVEY

A VLF-electromagnetic survey was conducted along the soil sample line established between the YMIR-BELLE and New Victor veins. A Sabre Model 27 VLF-electromagnetic receiver tuned to Seattle, Washington was used for all observations.

The very low frequency electromagnetic (VLF-EM) survey carried out along line 0 shows a weak anomaly at station 2+50S indicating a weak conductor in this area.

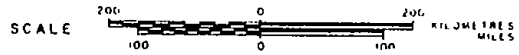
The survey shows a sharp (5%) drop in field strength with a corresponding change in dip angle at station 4+50S. The nature of these

features indicates a geologic contact. this is also the area in which the New Victor vein is found.

There is no indication of the presence of the YMIR-BELLE vein in the survey results.

Donald G. Allen

YMIR BELLE PROPERTY LOCATION MAP



exploration Ltd.

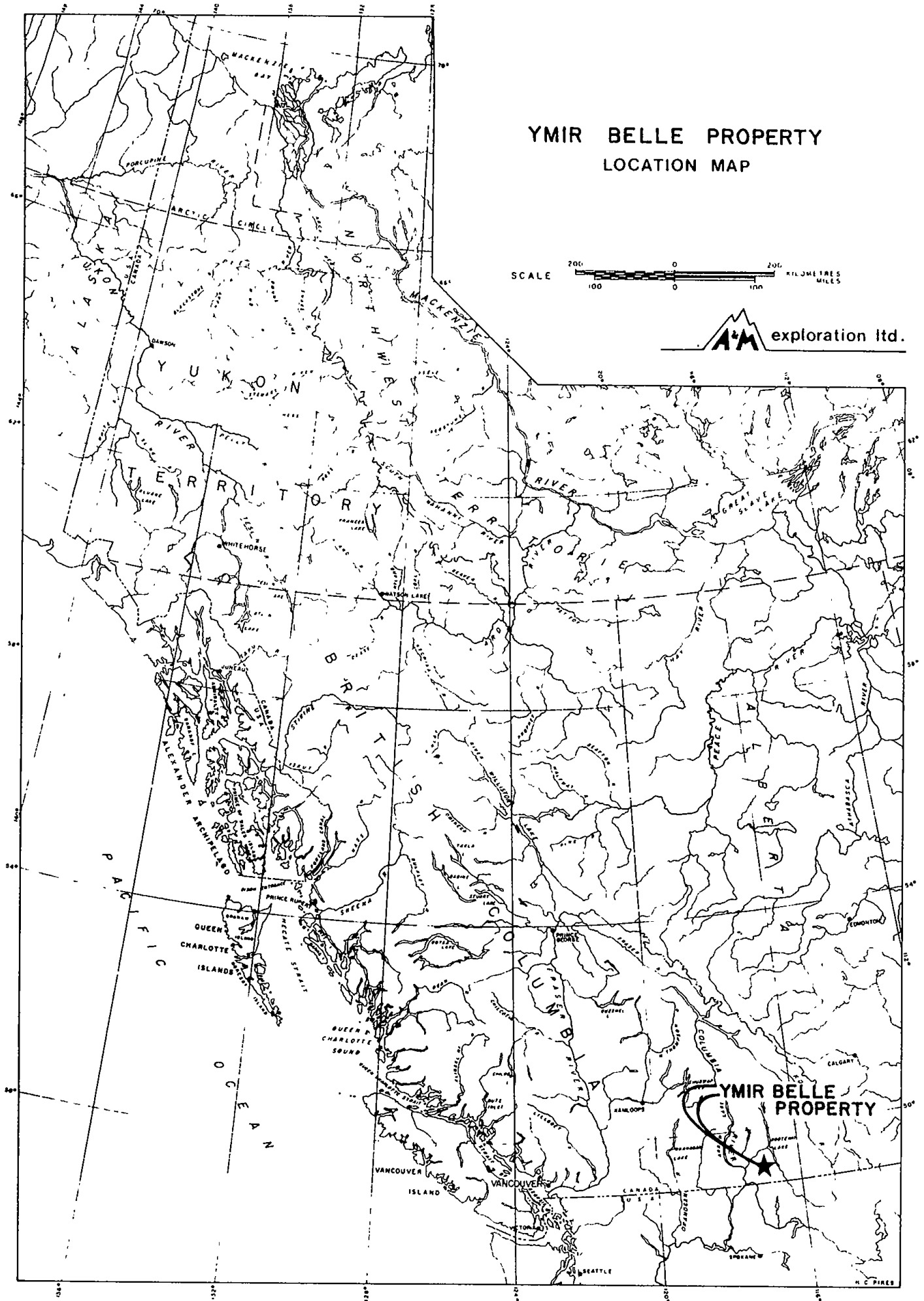
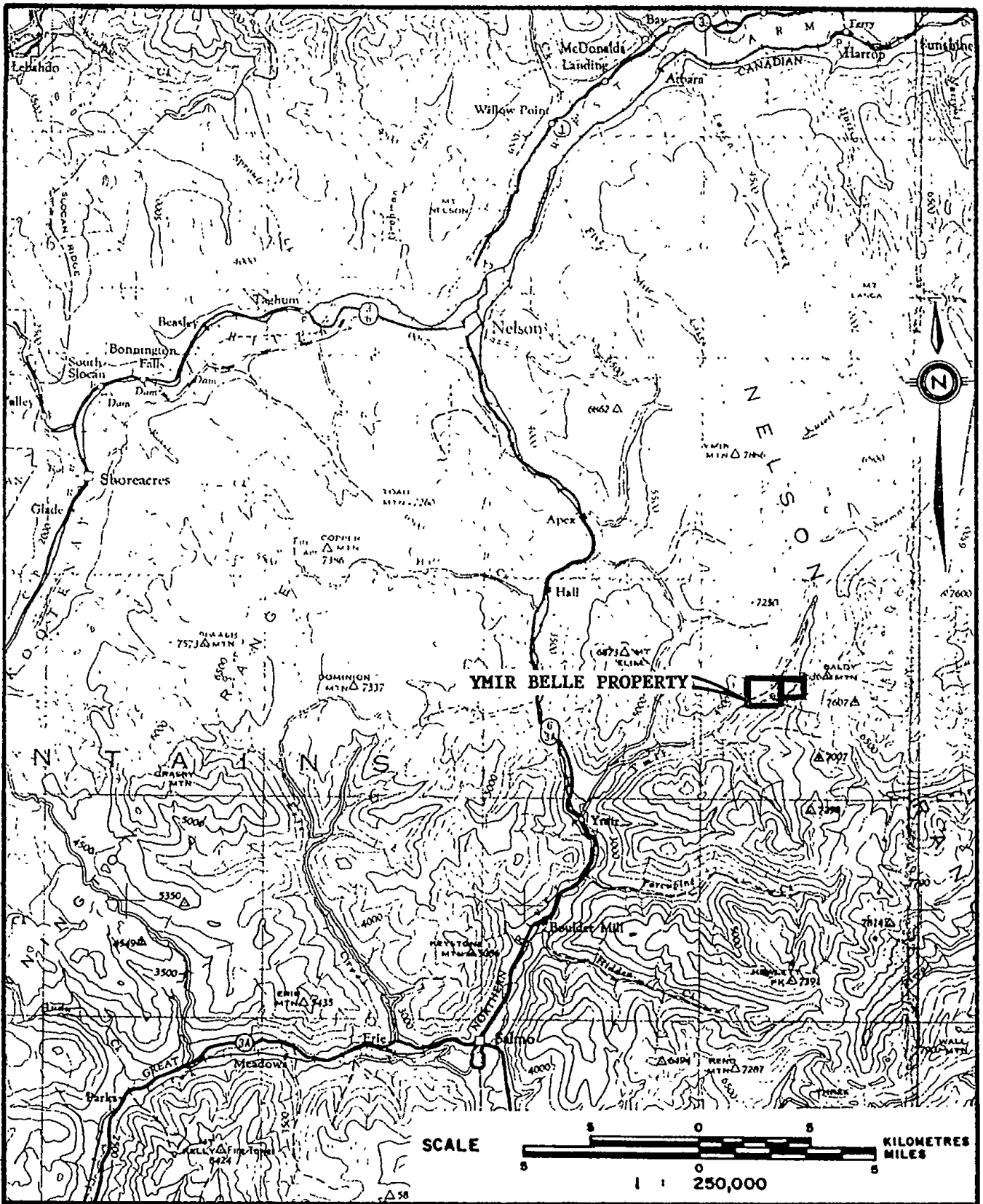


FIGURE -1



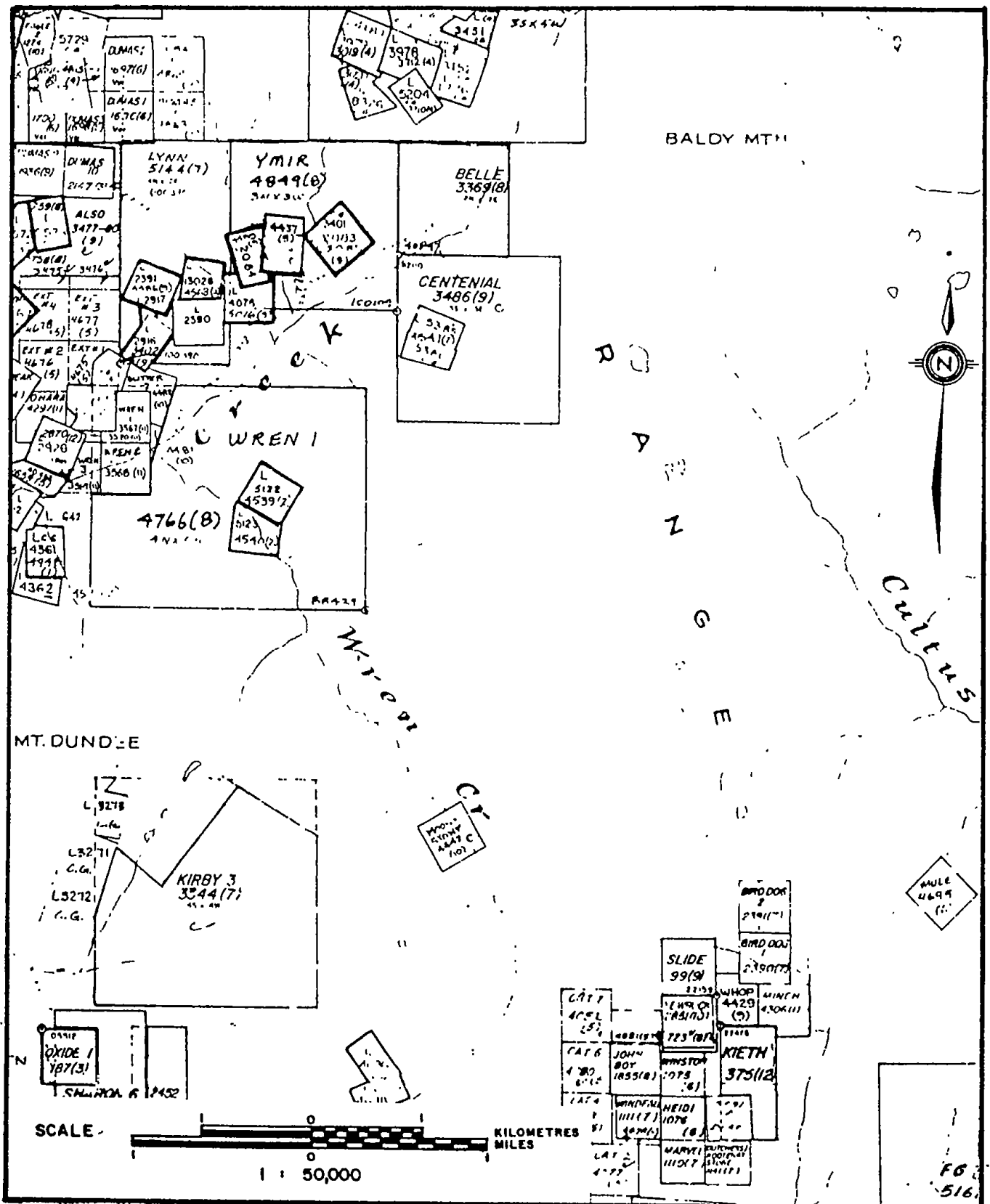
**YMIER BELLE PROPERTY
ACCESS MAP**

N.T.S. 82F/6E

Nelson Mining Division - British Columbia



Figure 2



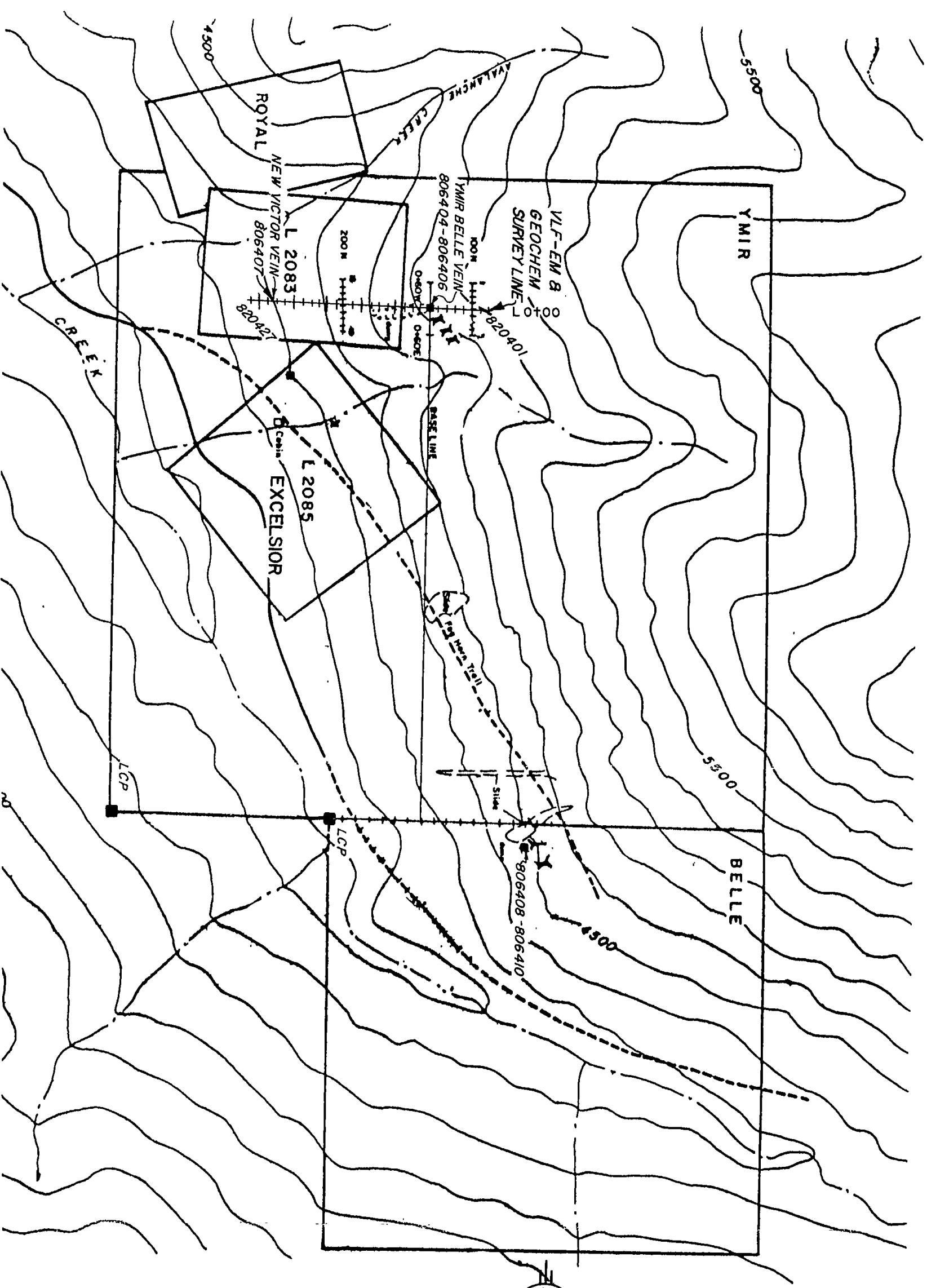
YMIR BELLE PROPERTY
CLAIM MAP

N.T.S. 82F/6E

Nelson Mining Division - British Columbia

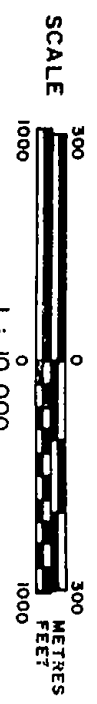


Figure 3



- LEGEND**
- Adit
 - Trench
 - Sample location
 - Road
 - Trail
 - Creek
 - Contour at 200' int
 - Claim post

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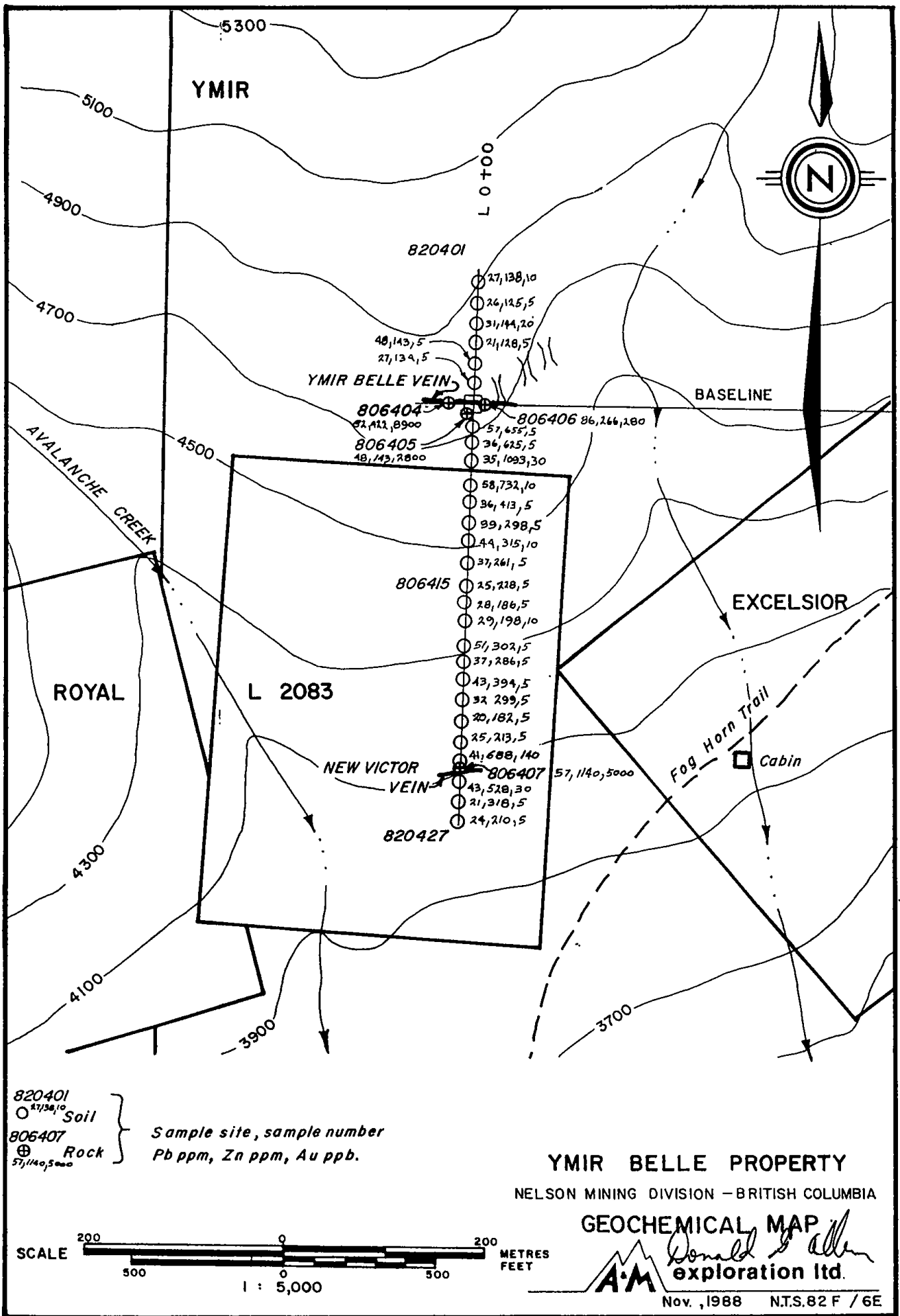


YMIR BELLE PROPERTY
 NELSON MINING DIVISION — BRITISH COLUMBIA

CLAIMS, GRID LINES
 AND
 ROCK SAMPLE SITES

NOVEMBER, 1988 N.T.S. 82 F / 6E

FIGURE 4



820401
 ○ 27,138,10 Soil
 806407
 ⊕ 57,114,5000 Rock
 } Sample site, sample number
 } Pb ppm, Zn ppm, Au ppb.

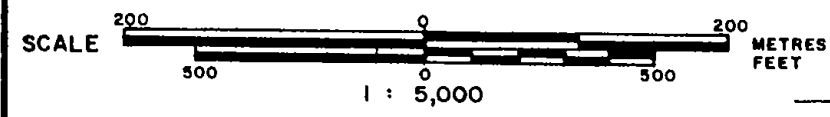
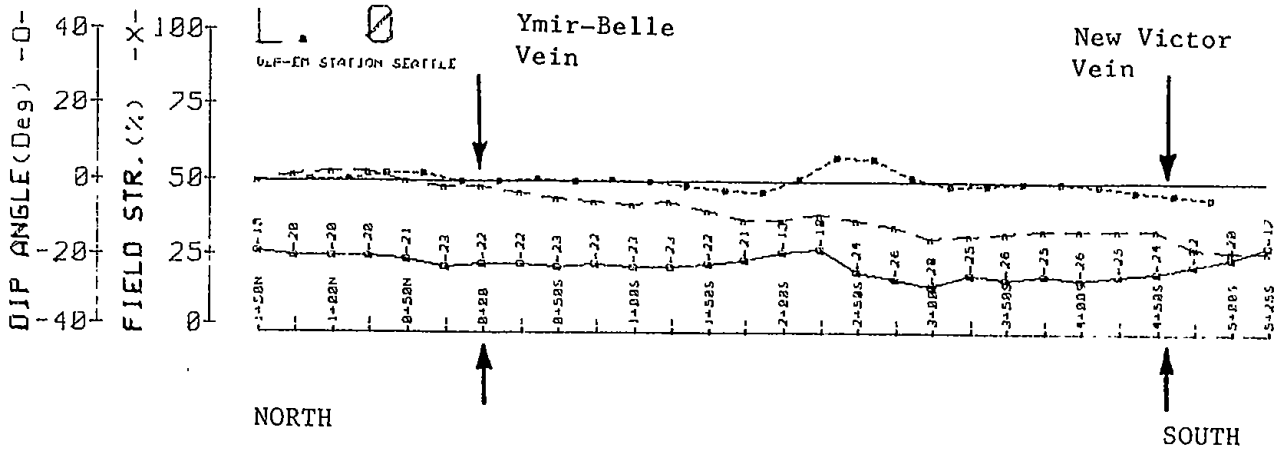


FIGURE 5

Downhill



LINE 0

STNK	DIP(deg)	FS%	F.FILTER
1-5BN	-15	58	#
1-20	-28	62	J
1-20N	-28	53	J
8-5BN	-21	58	4
8-20	-23	48	B
8-20N	-22	46	B
8-5BS	-22	44	7
1-20S	-23	42	1
1-20SS	-23	43	1
1-5BS	-22	48	1
2-20S	-21	37	1.6
2-20SS	-18	37	2
2-5BS	-24	35	1.3
2-20SS	-26	35	3
2-5BS	-28	31	1.3
2-5BS	-25	32	1.2
2-5BS	-26	33	#
2-5BS	-25	34	#
4-20S	-26	34	-2
4-20SS	-25	34	-5
4-5BS	-24	34	-2
5-20S	-22	28	-3
5-20SS	-28	27	B
5-25S	-17	27	#

DIP ANGLE - -
 FIELD STRENGTH - -
 FRASER FILTER - -

Nelson Mining Division - British Columbia
 VLF - ELECTROMAGNETIC
 PROFILE
 YMIR - BELLE PROPERTY

Donald J. Allen
 A.M. exploration Ltd.

Figure 6

Table 1 SAMPLE DESCRIPTIONS

<u>Sample No.</u>	<u>Description</u>	<u>Au ppb</u>
806404	Chip sample across 0.3 metres including 0.15 metre vein material; from small pit 15 metres west of shaft.	8900
806405	Bulk sample of pyritic vein material from dump; bluish grey quartz with abundant streaks and clots of pyrite; some boulders up to 0.25 metres in diameter.	2800
806406	0.7 metre channel sample across fractured granodiorite at top of shaft.	280
806407	Chip sample across 1 metre including 20 centimetres quartz-pyrite vein; taken from eastern-most of 2 shafts 20 metres apart.	5000
806408	Grab sample of pyritic quartz vein material from old pit.	5
806409	Grab sample of pyritic quartz vein material from adit.	10
806410	Grab sample - dump material	5

REFERENCES

- Drysdale, C.W. (1917). Ymir Mining Camp, B.C. Geological Survey of Canada. Memoir 94.
- Fenwick-Wilson, B.A. (1984). A Geological-Geochemical Report on the Ymir-Belle Gold Property. Report for Spencar Explorations Ltd. B.C. Minister of Mines and Petroleum Resources. Assessment report 13,120.
- von Rosen, G. (1983). Recommendation Report, Ymir Belle Gold Property. Private Report for Spencar Exploration Ltd.

APPENDIX I
ANALYTICAL RESULTS

ROSSBACHER LABORATORY LTD.

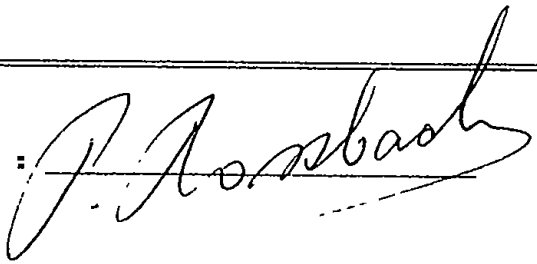
2225 S. Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph: (604)299-6910 Fax:299-6252

CERTIFICATE OF ANALYSIS

TO : A&M EXPLORATION LTD.
#714-850 W. HASTINGS ST.
VANCOUVER, B.C.
PROJECT : JOB 464
TYPE OF ANALYSIS : GEOCHEMICAL

CERTIFICATE # : 88173
INVOICE # : 80512
DATE ENTERED : 88-08-16
FILE NAME : A&M88173
PAGE # : 1

PRE FIX	SAMPLE NAME	PPB Au	Au g/L
A	806404	8900	0.25
A	806405	2800	0.08
A	806406	230	0.008
A	806407	1000	0.145
A	806408	5	
A	806409	10	
A	806410	5	
S	820401	10	
S	820402	5	
S	820403	10	
S	820404	5	
S	820405	5	
S	820406	5	
S	820407	5	
S	820408	5	
S	820409	30	
S	820410	10	
S	820411	5	
S	820412	5	
S	820413	10	
S	820414	5	
S	820415	5	
S	820416	5	
S	820417	10	
S	820418	5	
S	820419	5	
S	820420	5	
S	820421	5	
S	820422	5	
S	820423	5	
S	820424	140	
S	820425	30	
S	820426	5	
S	820427	5	

CERTIFIED BY : 

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLES DIGESTED IN 10% HNO₃ AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS ANALYSIS IS PARTIAL FOR THE USE OF ICP. LA, CR, HG, BA, TI, B, W AND LIMITED FOR NA, K AND AL. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOLUTION

DATE RECEIVED: AUG 12 1988 DATE REPORT MAILED: Aug 16/88 ASSAYER: C. Long D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS
 ROSSBÄCHER LABS LTD. PROJECT 88173-A File # 88-3529 #1464

SAMPLE#	NO	CU	ZN	IN	AG	NI	CO	MO	Fe	Zr	AS	U	AU	TH	ST	CD	SB	BI	V	Ca	P	LA	CR	HG	BA	TI	B	AL	Na	K	W	
	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM		
S 820401	4	18	27	138	2	23	7	670	2.82	3	5	ND	5	ND	5	23	1	2	2	37	.15	.068	16	34	.54	83	.12	2	3.07	.01	.12	3
S 820402	3	16	26	125	.1	19	6	935	2.53	3	5	ND	3	21	1	2	2	2	33	.14	.074	16	26	.43	86	.10	2	2.56	.01	.10	4	
S 820403	1	15	31	144	.1	17	6	1168	2.76	5	5	ND	2	35	2	2	2	2	34	.23	.114	19	25	.46	105	.08	2	2.65	.01	.14	1	
S 820404	1	14	21	128	.1	16	6	1427	2.47	2	5	ND	3	39	2	2	2	2	31	.24	.093	20	22	.42	98	.08	4	2.79	.01	.11	2	
S 820405	1	17	48	143	.3	16	6	1536	2.47	7	5	ND	2	44	1	2	2	2	30	.26	.119	16	21	.39	127	.08	2	2.59	.01	.12	1	
S 820406	1	12	27	134	.2	15	6	924	2.65	5	5	ND	3	26	2	2	2	2	31	.18	.087	21	24	.47	101	.08	2	2.77	.01	.13	2	
S 820407	1	25	57	655	.2	20	10	4032	3.56	8	5	ND	2	70	11	2	2	2	40	.55	.099	19	26	.53	391	.12	2	3.55	.01	.19	2	
S 820408	1	22	36	655	.5	21	9	1774	3.08	7	5	ND	3	37	10	3	2	2	36	.28	.094	24	25	.50	115	.11	2	3.74	.01	.16	1	
S 820409	1	27	35	1093	.3	26	10	3218	3.32	7	5	ND	2	62	23	2	2	2	35	.45	.148	33	29	.54	163	.10	4	3.21	.01	.18	2	
S 820410	1	20	58	732	.2	23	9	3003	3.16	11	5	ND	2	67	11	2	2	3	37	.55	.070	20	28	.52	191	.12	2	2.80	.01	.15	1	
S 820411	1	20	36	413	.1	22	10	2992	3.10	5	5	ND	2	72	13	2	2	2	38	.56	.056	16	26	.44	374	.15	2	2.85	.01	.13	1	
S 820412	1	22	39	298	.1	23	10	3190	3.02	5	5	ND	2	35	8	2	2	2	36	.25	.110	25	32	.52	192	.10	3	2.21	.01	.16	1	
S 820413	1	22	44	315	.1	31	10	1800	3.43	6	5	ND	3	65	5	2	2	3	43	.57	.094	22	40	.86	162	.14	2	3.24	.01	.22	1	
S 820414	2	22	37	261	.3	30	10	1838	3.36	2	5	ND	3	56	4	2	2	2	43	.50	.084	26	43	.63	138	.15	4	3.38	.01	.21	1	
S 820415	1	12	25	228	.1	25	9	520	3.00	9	5	ND	4	65	4	3	2	2	39	.51	.091	21	31	.47	123	.16	6	3.77	.01	.15	1	
S 820416	1	12	28	186	.1	21	10	1959	2.93	4	5	ND	3	46	3	3	2	2	38	.38	.055	16	33	.51	170	.14	4	2.42	.01	.16	2	
S 820417	1	14	29	198	.1	22	8	1953	2.86	6	5	ND	4	55	2	2	2	2	38	.45	.059	18	28	.47	357	.15	4	2.83	.01	.14	1	
S 820418	1	12	51	302	.1	20	8	3121	2.60	8	5	ND	2	44	5	2	2	2	35	.32	.098	13	28	.43	346	.12	3	2.18	.01	.14	1	
S 820419	1	16	37	268	.3	22	8	1165	3.03	6	5	ND	5	54	3	3	3	3	39	.41	.111	37	33	.49	124	.16	4	3.42	.01	.14	1	
S 820420	1	29	43	394	.3	31	9	3209	2.97	7	20	ND	5	89	7	2	2	2	37	.58	.148	105	49	.53	389	.13	2	2.78	.01	.13	1	
S 820421	1	13	32	229	.1	22	8	673	2.79	8	5	ND	4	45	3	2	2	3	36	.34	.100	15	32	.48	201	.15	2	3.04	.01	.11	1	
S 820422	1	12	20	182	.1	19	8	1873	2.53	6	5	ND	2	67	3	2	2	2	35	.40	.081	13	25	.44	450	.13	2	1.69	.01	.13	1	
S 820423	1	17	25	213	.1	31	8	1176	2.71	4	5	ND	3	42	3	3	2	2	36	.37	.103	15	42	.57	365	.14	2	3.07	.01	.13	1	
S 820424	1	20	41	688	.3	29	9	561	2.95	9	5	ND	7	31	16	3	2	2	36	.28	.179	22	40	.69	106	.11	5	2.52	.01	.18	1	
S 820425	1	12	43	528	.1	26	10	743	3.40	10	5	ND	4	33	4	2	2	2	41	.25	.208	14	39	.54	149	.16	2	3.18	.01	.14	1	
S 820426	1	15	21	318	.1	26	9	654	3.27	11	5	ND	4	38	4	3	2	2	43	.30	.294	17	31	.63	195	.15	2	3.03	.01	.16	2	
S 820427	1	18	24	210	.2	19	11	533	4.15	8	5	ND	4	35	1	2	2	2	55	.33	.277	15	26	.99	149	.19	2	3.57	.01	.21	2	
STD C	18	59	36	132	7.2	68	29	1021	4.10	38	19	6	36	47	19	18	19	19	58	.48	.094	42	61	.92	183	.07	33	1.96	.06	.14	13	

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - SOLID SAMPLES DIGESTED WITH HCl-HNO₃-HF-HF₃ FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
 THIS LEACH IS SUITABLE FOR IN-TRACONCENTRATION LIMITS AND ANALYSIS. NO DETECTION LIMIT BY ICP IS 3 PPM.
 - SAMPLE TYPE: SOLUTION

DATE RECEIVED: Aug 16/88 DATE REPORT MAILED: Aug 16/88 ASSAYER: C. Long D. TOYE OR C. LEONG, CERTIFIED B.C. ASSAYERS.

ROSSBACHER LABS LTD. PROJECT 88173 FILE # 88-3528 #464

SAMPLE#	NO	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Tl	Sr	Cd	Sb	Bi	V	Ca	Zn	La	Ce	Nd	Mg	Ba	Tl	B	Al	Hg	K	W
PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	PPM	
AP 806404	1	12	82	422	1.7	2	1	350	1.47	14	5	ND	2	10	6	2	3	2	.03	.016	16	103	.01	50	.01	3	.37	.01	.21	1	
AP 806405	1	38	813	768	16.6	8	29	39	8.20	7312	5	3	1	2	14	3	4	1	.01	.001	2	146	.01	9	.01	3	.06	.01	.04	1	
AP 806406	1	19	86	266	.6	7	7	292	2.97	70	5	ND	4	10	3	2	5	4	.03	.026	19	74	.03	67	.01	3	.81	.01	.27	1	
AP 806407	1	17	57	1160	5.2	3	1	275	1.36	16	5	6	3	50	30	2	4	2	.52	.015	10	94	.03	53	.01	3	.37	.01	.22	1	
AP 806408	1	12	8	25	.8	1	1	17	.35	3	5	ND	1	4	1	2	3	1	.01	.001	2	152	.01	18	.01	3	.07	.01	.07	1	
AP 806409	1	48	12	94	.4	8	6	329	3.11	5	5	ND	6	57	1	2	2	31	.86	.079	34	85	.56	59	.10	5	.92	.02	.39	1	
AP 806410	1	28	12	30	.6	6	6	69	2.43	17	5	ND	3	18	1	2	2	6	.20	.011	14	132	.11	22	.01	2	.33	.01	.10	1	

APPENDIX II
AFFIDAVIT OF EXPENSES

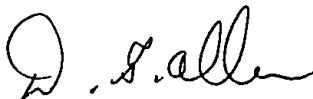
AFFIDAVIT OF EXPENSES

This will certify that prospecting, geochemical sampling and a VLF-electromagnetic survey was conducted on the YMIR-BELLE Group, Ymir Creek area, Nelson Mining Division, on August 8, 1988 to the value of the following:

Mobilization and Fieldwork

Salaries

D. G. Allen, consulting geologist	\$ 480.00
J. Murray, consulting geologist	300.00
C. Pittman, prospector	200.00
J. Cuvelier, instrument operator, soil sample	200.00
VLF-electromagnetic unit rental	25.00
Truck rental, travel	125.00
Geochemical Analyses	466.87
Room and board	70.00
Report	<u>500.00</u>
TOTAL	\$2366.87


D. G. Allen,
P. Eng. (B.C.)