

REPORT ON
ASSESSMENT WORK
ON
OLD COMPLEX CLAIMS 2 & 3
NEAR MERRITT
NICOLA MINING DIVISION, B.C.

BY
SHERWIN F. KELLY, P. ENG.

JULY 1, 1981

9330

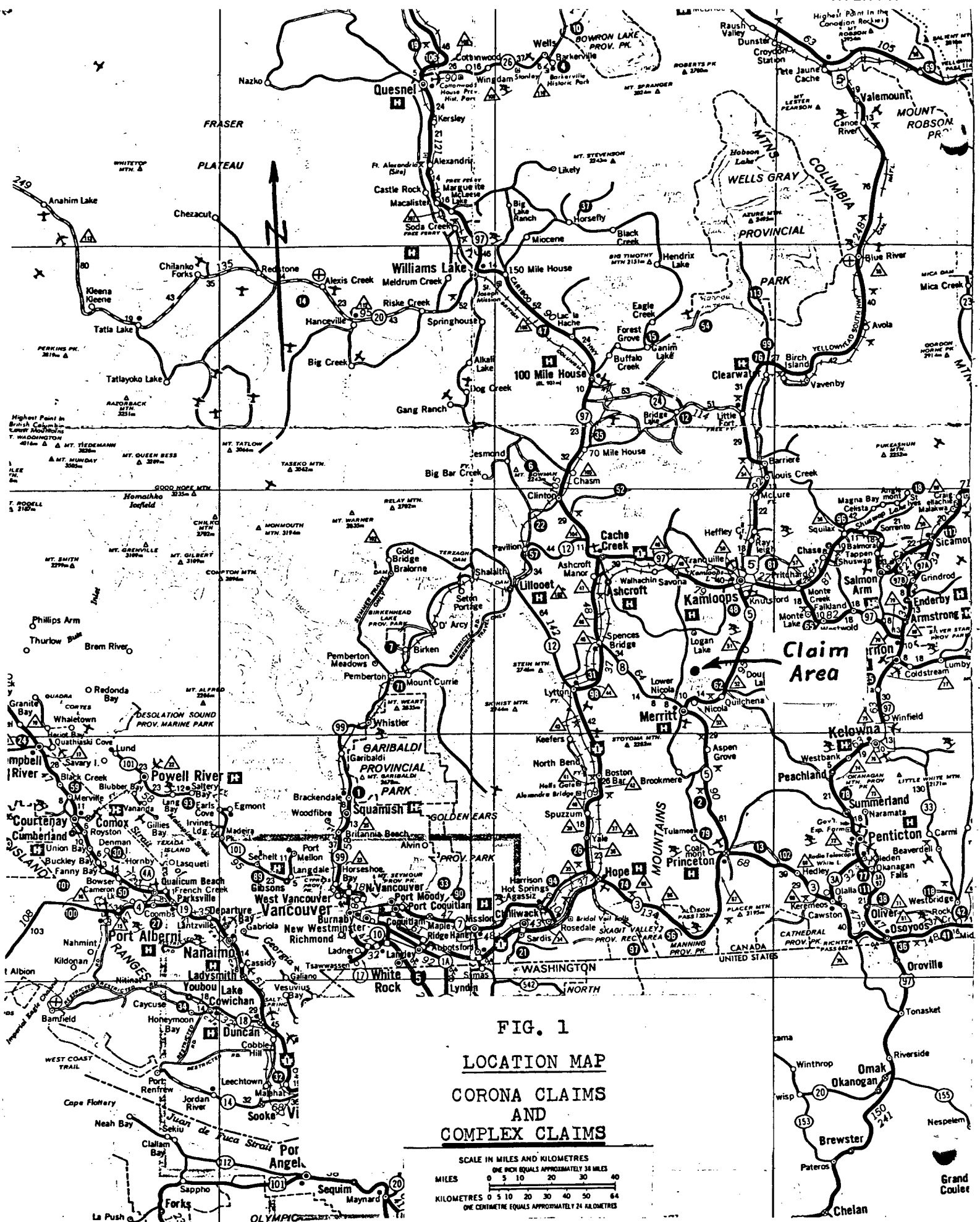
ASSESSMENT REPORT ON
OLD COMPLEX CLAIMS 2 & 3
NEAR MERRITT, B.C.

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BONDAR-CLEGG ASSAY RETURNS....bound
in back of Report.
BONDAR-CLEGG ACCOUNT.....bound
in back of Report.
SCOPE EXPLORATION SERVICES LTD.
ACCOUNT..bound in back of Report.



REPORT ON
ASSESSMENT WORK
ON OLD COMPLEX CLAIMS 2 & 3
NEAR MERRITT
NICOLA MINING DIVISION, B.C.
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SHERWIN F. KELLY, P. ENG.

INTRODUCTION

This report is to record the assessment work conducted on the Old Complex #2 & #3 mineral claims, in the form of a geochemical survey. The two, reverted Crown Grants consist of Lot 4893 (Complex 2) and Lot 4894 (Complex 3) on Swakum Mtn., near Merritt, in the Nicola Mining Division, B.C. The claims are registered in my name.

LOCATION AND ACCESS

The two claims, adjoining each other, lie one and a half kilometres SSW of the peak of Swakum Mtn., about 17 km straight NNE of Merritt, in the Nicola Mining Division, B.C. They lie in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of map 92-I/7 of the N.T.S. maps, the Mamit Lake sheet at the scale of 1:50,000. The co-ordinates are, $120^{\circ} 42\frac{1}{2}'$ west longitude and $50^{\circ} 16\frac{1}{2}'$ north latitude. The elevation is around 5,100 ft. (1,560 m) the top of Swakum Mtn. being at 5,666 ft. (1,730 m).

Access to the peak of Swakum Mtn. from Merritt is via the road to Kamloops, Highway #5, northeasterly to Nicola, 10 km from Merritt. There, a dirt road turns off to the north (left) through Nicola and then through an Indian Reserve, continuing north for some 14 km to the peak of the mountain. Various logging roads in that vicinity give access to the surrounding area, which lies in well timbered, rolling topography. See Fig. 1, Location Map, facing this page.

CLAIMS

The two, reverted Crown Grant claims, Old Complex #2 and #3, were acquired by me on July 3, 1979, on payment

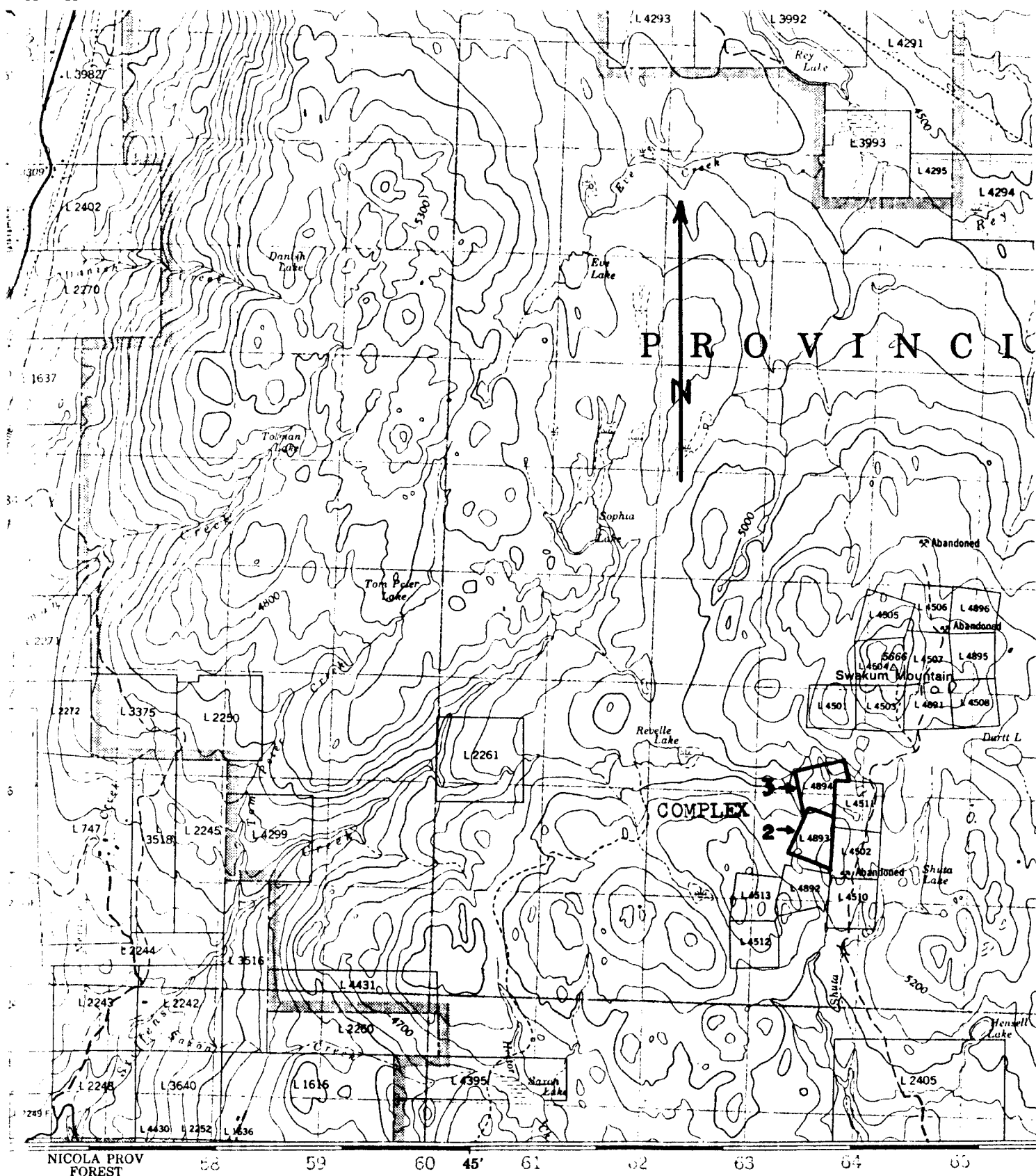


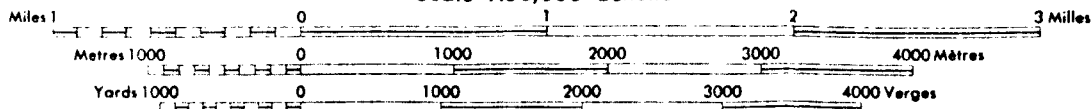
FIGURE
2

MAMIT LAKE
KAMLOOPS DIVISION OF YALE LAND DISTRICT
BRITISH COLUMBIA

CLAIM MAP

**OLD COMPLEX
NOS. 2 & 3**

Scale 1:50,000 Échelle



of the requisite fee. Old Complex No. 2, lot no. 4893, was assigned Record No. 656. Old Complex No. 3, lot no. 4894, was given Record No. 657. They were recorded in the office of the Gold Commissioner for the Nicola Mining Division, in Merritt. The Claim Map, Fig. 2, faces this page.

EXPLORATION WORK

Six E-W grid lines were laid out, sampled and the soil samples tested for copper, silver and zinc, to perform a geochemical survey, as exploration work on this property, in satisfaction of assessment requirements.

The six lines were spaced 150 m apart, extending 300 m west from the east boundary (a N-S line) of the two claims. Lines were numbered from north to south and stations were flagged and numbered at 50 m intervals along each line, going west from the east boundary.

GEOCHEMICAL SURVEY

Soil samples were taken from the designated stations, 50 m apart along each of the six grid lines. They were dug from the B horizon, 15 cm to 30 cm in depth, placed in kraft soil sample bags and shipped to Bondar-Clegg & Co., in North Vancouver, for analyses.

The metal content of the samples was determined by the standard atomic absorption technique, the metals reported being copper, silver and zinc. The results are shown on three sheets of the "Geochemical Lab Report" from Bondar-Clegg & Co., bound in back of this report. Analyses on samples from other holdings in this area, are also included in that report. Therefor, the figures applying to samples from the Old Complex claims are indented by check marks on the photocopies of the Bondar-Clegg returns.

EVALUATION OF RESULTS

The figures from the analytical returns have been entered on two maps, bound in back of this report. On one map, the copper content in parts per million (ppm) has been entered at each station sampled. On the other, the content in zinc is shown above the line and the ppm in silver is entered below the line. There was a total of 42 stations flagged, but no sample was taken at 1+50 W on Line 7+50 S, leaving a net total of 41 samples.

From the figures on the copper map, it appears that the background value is 26 ppm. Threshold would therefore be 52 ppm and anomalous values would be 78 ppm or higher. There are no anomalous values on the map. There is one threshold value of 55 ppm on Line 6+00 S at the east claim boundary; immediately north of it, at the mutual corner post of the two claims, on Line 4+50 S, there is a copper content of 50 ppm, very close to threshold value. The latter line also shows the highest average of readings per line, at 32 ppm; all the other lines average between 23 ppm and 29 ppm. The last, 29 ppm, occurs on only one line, 3+00 S.

For the zinc values, the background appears to be 52 ppm. Threshold is therefore 104 ppm and anomalous values 156 ppm and higher. There are no anomalous and no threshold values of zinc apparent on this map. There are, however, some slightly interesting readings, especially when considered in conjunction with the copper results. At the mutual corner post of the two claims, on Line 4+50 S, the zinc content is 70 ppm, the next to the highest recorded. It was at this location that the next-to-highest reported copper value (50 ppm) was found. The highest copper reading, 55 ppm (threshold), was 150 m south and the highest zinc value, 75 ppm (below threshold) was 300 m west on the next line north, Line 3+00 S.

These two lines, 3+00 S and 4+50 S, also exhibit a peculiarity in values. The average content in zinc for the

samples on Line 3+00 S, is 60 ppm and for Line 4+50 S it is 59 ppm. The average zinc content on all other lines ranges between 43 ppm and 52 ppm. It was pointed out above that these same two lines also showed the highest average copper content.

The highest copper value, 55 ppm (threshold) occurs at the east end of Line 6+00 S. At 2+00 W on this line, there is found the highest silver reading, 0.4 ppm. Examination of the silver-zinc map quickly shows that background in silver is 0.2 ppm and that there is only one value above that, the threshold value of 0.4 ppm just described.

There is, therefore, a zone within which the copper, zinc and silver contents of the soil samples show their highest values, lying between Line 3+00 S on the north and Line 6+00 S on the south. This area might repay further investigation by more detailed surveys.

The suggestion for further, detail work is re-enforced by the occurrence of mineralisation on the adjoining claims to the east. These are the Old Evelynn, lying next to Old Complex #3, the Bernice adjoining Old Complex #2 and the Thelma adjoining the Bernice on the south. Two shafts, on the Thelma and Bernice, along with some open cuts and adits, revealed ore bodies of quartz veins in limestones and greenstones, mineralised with galena, sphalerite and pyrite. An adit on the Old Evelynn traversed a broad band of similar, but low grade mineralisation.

From the Thelma workings, 89 tons of ore (possibly hand-sorted) were shipped, probably in the thirties, which yielded 7,419 oz. of silver, 1 oz. of gold, 9,683 lbs. of lead and 10,237 lbs. of zinc. The deposits occur in greenstones and limestones of the Nicola formation of Triassic age, associated with fractures and faults cutting those beds. The inter-bedded sediments and volcanics are in the form of an asymmetric anticline with a southerly plunge, occupying the top of Swakum Mtn. In the vicinity of the Thelma, Bernice and

Old Evelynn, and the Alameda claims to the north, the bedded formations lie on the eastern limb of the N-S anticline with a steep easterly dip. The western limb, striking northwesterly and dipping more flatly southwesterly, passes through the Corona claims a kilometre to the west. The above descriptions of old workings, of the geology and of early production, are taken from the report by W.E. Cockfield, "Geology and Mineral Deposits of Nicola Map Area, British Columbia", Memoir 249, Geological Survey of Canada, Ottawa, 1948.

WORK PROGRAM

The laying out of the grid and the gathering of the soil samples, was carried out by Scope Exploration Services Ltd. of Merritt, B.C., on July 2nd, 1980. This firm is under the direction of Mr. Maurice Mathieu, of Merritt. He has been well-established in this area for over twenty years, working in the field of mining exploration and management.

The 41 samples were shipped to Bondar-Clegg & Co. of North Vancouver, for analysis. This is one branch of that firm, a company with an international reputation as one of first rank in the field of geochemistry. The analyses were made in the period Aug. 25-28, 1980.

The work was paid for by me, the owner of the claims.

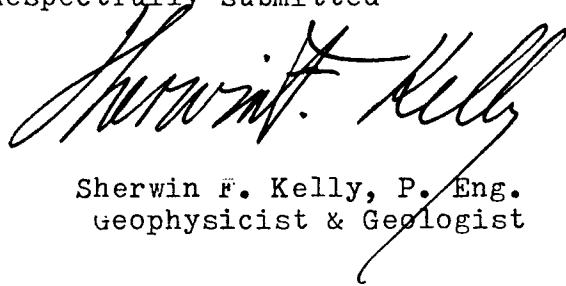
The costs were as follows:-

Laying out and cutting grid and taking soil samples on 1.8 kilometres of line, by Scope Exploration Services Ltd.....	\$200.00
Analyses of 41 soil samples by Bondar-Clegg & Co., @3.65 each.....	148.65
Cost of this report.....	<u>500.00</u>
total costs.....	\$848.65

The sum of \$200, for grid-layout and sampling, has already been applied for the year ending July 3rd, 1980, on Old Complex nos. 2 & 3. The balance of \$648.65 is now applicable for subsequent years. It is therefor requested that the sum of \$300 be applied to Old Complex #2 (Record No. 656(7)) and the sum of \$300 be applied to Old Complex #3 (Record No. 657(7)). The two claims have been grouped.

Invoices from Scope Exploration and from Bondar-Clegg, are bound in back of this report.

Respectfully submitted

A handwritten signature in cursive script, reading "Sherwin F. Kelly". The signature is written in dark ink and is positioned above the typed name and title.

Sherwin F. Kelly, P. Eng.
Geophysicist & Geologist

Box 277
Merritt, B.C.
VOK 2B0
July 1, 1981

CERTIFICATE OF QUALIFICATIONS

I, Sherwin F. Kelly, P. Eng., residing at the Adelphi Hotel in Merritt, B.C. certify that:-

(1) I am a registered Professional Engineer in the Province of British Columbia.

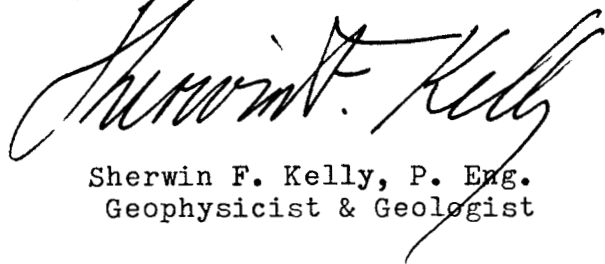
(2) I received the degree of Bachelor of Science in Mining Engineering from the University of Kansas in 1917. I pursued graduate studies at the University of Kansas, University of Toronto, and at the Université de Paris (the Sorbonne) and Ecole des Mines in Paris. I received my instruction in geophysics from Prof. Conrad Schlumberger of the Ecole des Mines.

(3) I have practised as a geophysicist and geologist in Europe, North Africa, North, Central and South America and the Caribbean, since 1920. My work has principally been as a consultant since 1936.

(4) I am the author of the accompanying "Report of Assessment Work on Old Complex Claims 2 & 3, Near Merritt, Nicola Mining Division, B.C.", dated July 1, 1981.

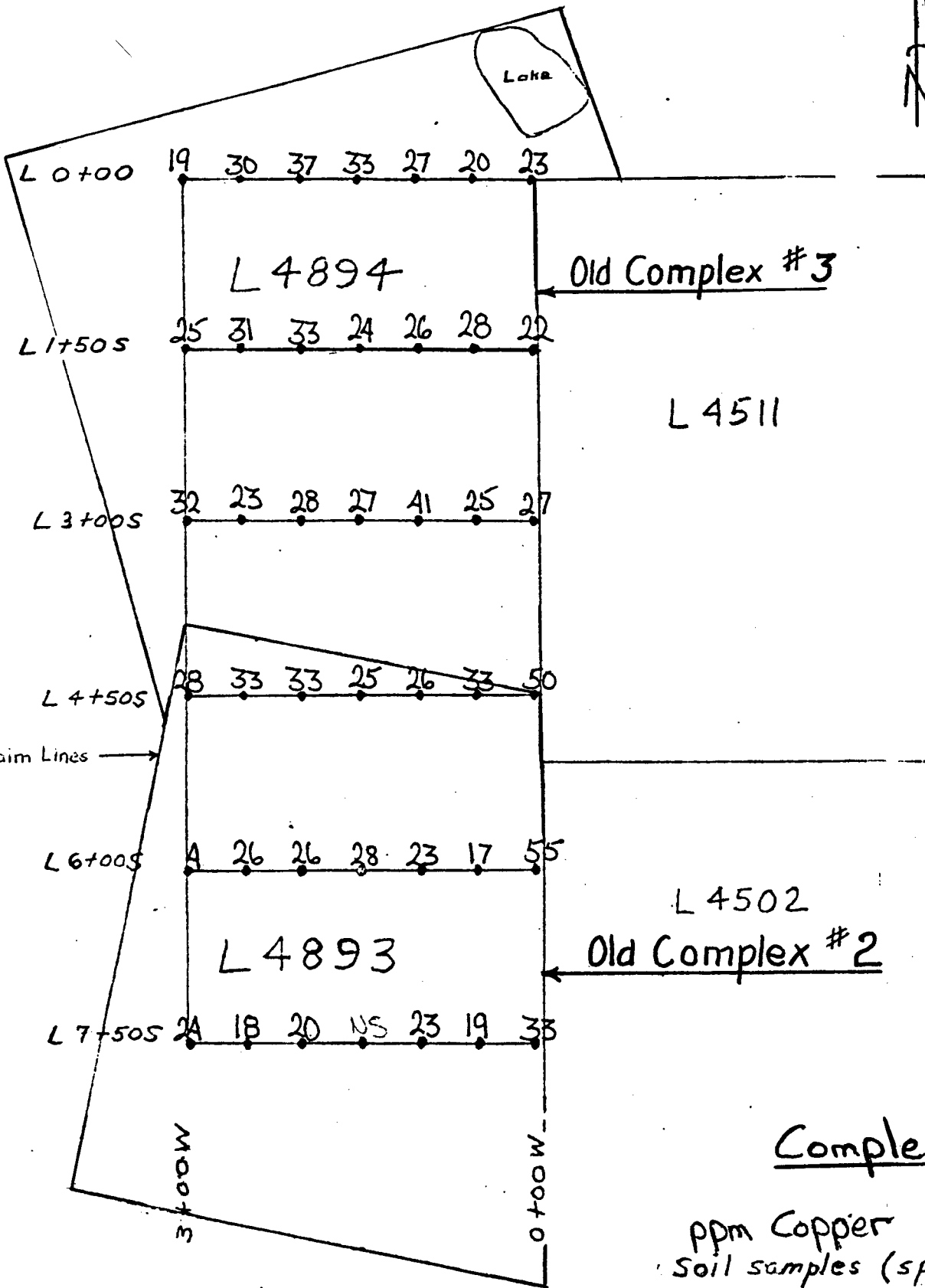
(5) I am the owner of the claims.

Respectfully submitted



Sherwin F. Kelly, P. Eng.
Geophysicist & Geologist

Box 277
Merritt, B.C.
VOK 2B0
July 1, 1981



SCALE 1:5000
0 50 100 m

Copper
Soil Values

Complex

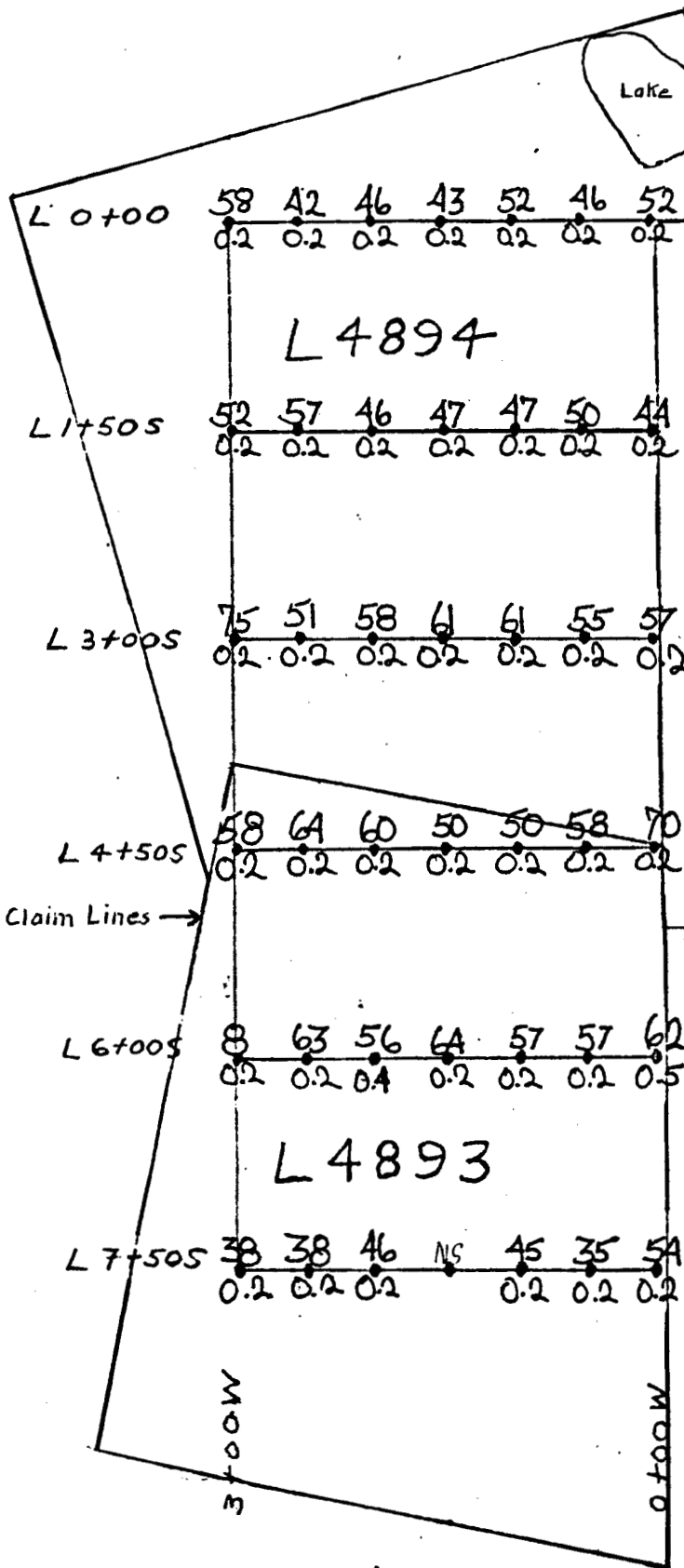
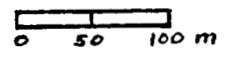
ppm Copper

Soil samples (spacing 50 meters)	
L 0+00	: 7 samples
L 1+50S	: 7 "
L 3+00S	: 7 "
L 4+50S	: 7 "
L 6+00S	: 7 samples
L 7+50S	: 7 "
<hr/>	
TOTAL	42 samples
Less 1 NS = net 41 samples	
sample locations denoted by →	

mm
KOA
SPK



SCALE 1:5000



← Complex # 3

L 4511

L 4502

← Complex # 2

Complex
Silver-Zinc
Soil Values

ppm Zn Above
ppm Ag Below

- Soil samples (spacing 50 meters)
- L 0+00 : 7 samples
- L 1+50S : 7 "
- L 3+00S : 7 "
- L 4+50S : 7 "
- L 6+00S : 7 samples
- L 7+50S : 7 "

TOTAL 42 samples
Less 1 NS = net 41 samples
sample locations denoted by —●—

m/m
K.D.A.
S.P.K.



BONDAR-CLEGG & COMPANY LTD.

130 PEMBERTON AVE., NORTH VANCOUVER, B.C.

PHONE: 985-0681

TELEX: 04-352667

Geochemical Lab Report

Location Old Complex values
 Method Old Complex values
 Section Used _____

Report No. 20 - 1858
 From Mr. Sherwin F. Kelley
 Date August 28 19 80

SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb	SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb
0L 0+00SA	20	54	0.2		L0+00 2+50E	22	59	0.2	
0+50SA	32	61	0.2		3+00E	60	70	0.2	
1+00SA	29	54	0.2		3+50E	21	66	0.2	
1+50SA	38	56	0.2		4+00E	23	53	0.2	
2+00SA	33	94	0.2		4+50E	27	43	0.2	
2+50SA	26	68	0.2		5+00E	20	48	0.2	
3+00SA	44	131	0.2		✓ 0+00W	23	52	0.2	
3+50SA	50	148	0.2		✓ 0+50W	20	46	0.2	
4+00SA	41	64	0.2		✓ 1+00W	27	52	0.2	
4+50SA	86	61	0.2		✓ 1+50W	33	43	0.2	
5+00SA	49	54	0.2		✓ 2+00W	37	46	0.2	
5+50SA	39	63	0.2		✓ 2+50W	30	42	0.2	
6+00SA	39	61	0.2		✓ 3+00W	19	58	0.2	
6+50SA	35	66	0.2		L0-S 0+50EA	81	9	0.2	
7+00SA	31	66	0.2		1+00EA	26	49	0.2	
7+50SA	28	93	0.2		1+50EA	40	134	0.2	
8+00SA	24	138	0.2		2+00EA	27	115	0.2	
8+50SA	41	153	0.4		0+50WA	16	35	0.2	
9+00SA	41	84	0.2		1+00WA	51	260	0.2	
9+50SA	39	94	0.2		1+50WA	64	151	0.2	
10+00SA	32	84	0.2		2+00WA	104	600	0.3	
10+50SA	40	108	0.3		L1-S 0+50EA	27	71	0.2	
11+00SA	56	103	0.2		1+00EA	52	245	0.7	
11+50SA	28	70	0.2		1+50EA	62	82	0.2	
12+00SA	39	98	0.2		0+50WA	51	410	0.2	
L0+00 0+00E	36	68	0.2		1+00WA	45	530	0.5	
0+50E	31	63	0.2		1+50WA	141	460	0.4	
1+00E	51	72	0.2		2+00WA	181	59	0.2	
1+50E	37	82	0.2		2+50WA	26	51	0.2	
2+00E	29	56	0.2		L1+50N 0+00E	76	580	7.5	

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Geochemical Lab Report

Report No. 20 - 1858

Page No. 2

SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb	SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb
L1+50N 0+50E	31	70	0.2		L3+00N 0+50E	56	110	0.2	
1+00E	31	76	0.2		1+00E	19	46	0.2	
1+50E	29	63	0.2		1+50E	41	88	0.2	
2+00E	36	78	0.2		2+00E	22	59	0.2	
2+50E	32	59	0.2		2+50E	21	53	0.2	
3+00E	29	44	0.2		3+00E	33	77	0.2	
3+50E	28	77	0.2		3+50E	19	51	0.2	
4+00E	32	44	0.2		4+00E	26	58	0.2	
4+50E	36	75	0.2		4+50E	43	54	0.2	
5+00E	21	60	0.2		5+00E	29	55	0.2	
L1+50S 0+00E	48	62	0.2		L3+00S 0+00E	43	41	0.2	
1+50E	27	63	0.2		0+50E	50	60	0.2	
2+00E	25	55	0.2		1+00E	33	53	0.2	
2+50E	29	104	0.2		1+50E	54	79	0.2	
3+00E	21	41	0.2		2+00E	30	60	0.2	
3+50E	24	74	0.2		2+50E	35	66	0.2	
4+00E	34	68	0.2		3+00E	35	61	0.2	
5+00E	30	52	0.2		3+50E	34	101	0.2	
L1+50S ✓ 0+00W	22	44	0.2		4+00E	96	77	0.7	
✓ 0+50W	28	50	0.2		4+50E	29	68	0.2	
✓ 1+00W	26	47	0.2		5+00E	28	86	0.2	
✓ 1+50W	24	47	0.2		L3-S 0+50EA	39	86	0.2	
✓ 2+00W	33	46	0.2		1+00EA	51	85	0.2	
✓ 2+50W	31	57	0.2		L3+00S ✓ 0+00W	27	57	0.2	
✓ 3+00W	25	52	0.2		✓ 0+50W	25	55	0.2	
L2-S 0+50E	23	111	0.2		✓ 1+00W	41	61	0.2	
1+00E	48	72	0.2		✓ 1+50W	27	61	0.2	
1+50E	38	76	0.2		✓ 2+00W	28	58	0.2	
0+50WA	46	90	0.2		✓ 2+50W	23	51	0.2	
1+00WA	96	590	0.9		✓ 3+00W	32	75	0.2	
1+50WA	41	73	0.2		L3-S 0+50EA	86	74	0.3	
2+00WA	34	72	0.2		1+00EA	65	89	0.3	
2+50WA	41	71	0.2		1+50EA	101	82	0.4	
3+00WA	41	63	0.2		2+00EA	49	59	0.2	
L3+00N 0+00E	77	77	0.2		2+50EA	59	64	0.2	

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Geochemical Lab Report

Report No. 20 - 1858

Page No. 3

SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb	SAMPLE NO.	Cu ppm	Zn ppm	Ag ppm	Au ppb
L3-S 3+00EA	47	79	0.2		L6-S 0+50EA	63	78	0.2	
L4-S 0+50EA	41	55	0.2		1+00EA	85	109	0.5	
1+00EA	40	76	0.2		L6+00S ✓ 0+00W	55	62	0.5	
0+50WA	91	143	2.4		✓ 0+50W	17	57	0.2	
1+00WA	44	92	0.2		✓ 1+00W	23	57	0.2	
1+50WA	42	84	0.2		✓ 1+50W	28	64	0.2	
2+00WA	53	113	0.4		✓ 2+00W	26	56	0.4	
2+50WA	36	41	0.2		✓ 2+50W	26	63	0.2	
3+00WA	50	64	0.2		✓ 3+00W	4	8	0.2	
L4+50S 0+00E	26	55	0.2		L6-S 0+50WA	53	76	0.2	
0+50E	32	53	0.2		1+00WA	126	79	0.7	
1+00E	44	49	0.2		1+50WA	62	135	0.2	
1+50E	25	60	0.2		2+00WA	49	110	0.2	
2+00E	24	58	0.2		2+50WA	60	109	0.2	
2+50E	26	63	1.7		3+00WA	53	119	0.2	
3+00E	178	113	0.2		L7-S 0+50EA	32	102	0.3	
3+50E	24	57	0.2		1+00EA	58	196	0.4	
4+00E	37	65	0.2		0+50WA	38	99	0.2	
4+50E	22	52	0.2		1+00WA	33	156	0.2	
5+00E	25	74	0.2		1+50WA	33	246	1.1	
✓ 0+00W	50	70	0.2		2+00WA	47	274	0.4	
✓ 0+50W	33	58	0.2		2+50WA	42	152	0.3	
✓ 1+00W	26	50	0.2		3+00WA	40	130	0.3	
✓ 1+50W	25	50	0.2		L7+50S ✓ 0+00W	33	54	0.2	
✓ 2+00W	33	60	0.2		✓ 0+50W	19	35	0.2	
✓ 2+50W	33	54	0.2		✓ 1+00W	23	45	0.2	
✓ 3+00W	28	58	0.2		✓ 2+00W	20	46	0.2	
L5-S 0+50E	60	105	0.2		✓ 2+50W	18	38	0.2	
1+00E	59	100	0.3		✓ 3+00W	24	38	0.2	
0+50W	55	64	0.2		L8-S 0+50E	48	105	0.2	
1+00W	45	410	0.6		1+00E	71	189	2.6	
1+50W	71	372	2.0		1+50E	54	93	0.2	
2+00W	40	101	0.3		2+00E	75	149	0.2	
2+50W	92	149	0.6		2+50E	63	143	0.2	
3+00W	70	87	0.7		3+00E	47	107	0.2	



BONDAR-CLEGG & COMPANY LTD.

764 BELFAST ROAD, OTTAWA, ONTARIO, K1G 0Z5 PHONE: 237-3110 TELEX: 053-4455

Mr. Sherwin F. Kelly
General Delivery
Herritt, B.C. V0K 2B0

D 4255
INVOICE: **D 4255**
DATE: **September 2, 1980**
REPORT NO: **20 - 1858**
PROJECT:

W.O. No. B 5691

320	Copper, Zinc, Silver	Analyses	@ \$ 3.15	\$ 1008.00
320	Sample Preparations		@ \$ 0.50	<u>160.00</u>
				<u>\$ 1168.00</u>

Scope Exploration Services Ltd.

Box 1101
Merritt, B.C. V0K 2B0

DATE

July 2nd./1980

NUMBER

Phone 378-5384

Sherwin F. Kelly

Merritt, B.C.

TERMS

PLEASE DETACH AND RETURN WITH YOUR REMITTANCE

\$

DATE	CHARGES AND CREDITS	BALANCE
	BALANCE FORWARD	
02/07/80		
	Re: Preparing grid and soil sampling on the Old Corona C.G.'s Lot 4512 and Lot 4513. Three kilometers of line 66 soil samples.	200.
	Re: Preparing grid and soil sampling on Old Complex C.G.'s Lot 4893 and Lot 4894. 1.8 kilometers of line and 42 soil samples.	200.
	Balance due	\$400.00

Scope Exploration Services Ltd.

Thank You

PAY LAST AMOUNT
IN THIS COLUMN