

REPORT ON
ASSESSMENT WORK
ON OLD CORONA CLAIMS 1 & 2
NEAR MERRITT
NICOLA MINING DIVISION, B.C.
BY
SHERWIN F. KELLY, P. ENG. 6/81

81-#652
9430

Report on
Assessment Work
by
Geochemical Soil Survey

on the
Old Corona Claims 1 & 2
on Swakum Mountain
NNE of Merritt
Nicola Mining Division, B.C.
50°16' N, 120°43' W

by
Sherwin F. Kelly, P. Eng.
Geophysicist & Geologist
June 30, 1981
Owner of the Claims

on Work Done Between
July 2 and Aug. 28, 1980

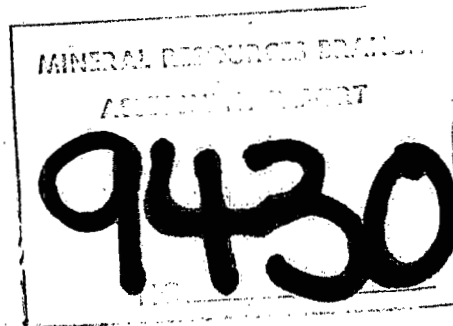
by
Scope Exploration Services, Ltd.
Merritt, B.C.
and
Bondar-Clegg & Company, Ltd.
Vancouver, B.C.

REPORT ON
ASSESSMENT WORK
ON

OLD CORONA CLAIMS 1 & 2
NEAR MERRITT
NICOLA MINING DIVISION, B.C.

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JUNE 30, 1981



ASSESSMENT REPORT ON
OLD CORONA CLAIMS 1 & 2
NEAR MERRITT, B.C.

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MAPS

LOCATION MAP, FIG. 1....facing p. 1
CLAIM MAP, FIG. 2.....facing p. 2
COPPER SOIL ANOMALY MAP.....bound
in back of Report.
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in back of Report.
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.

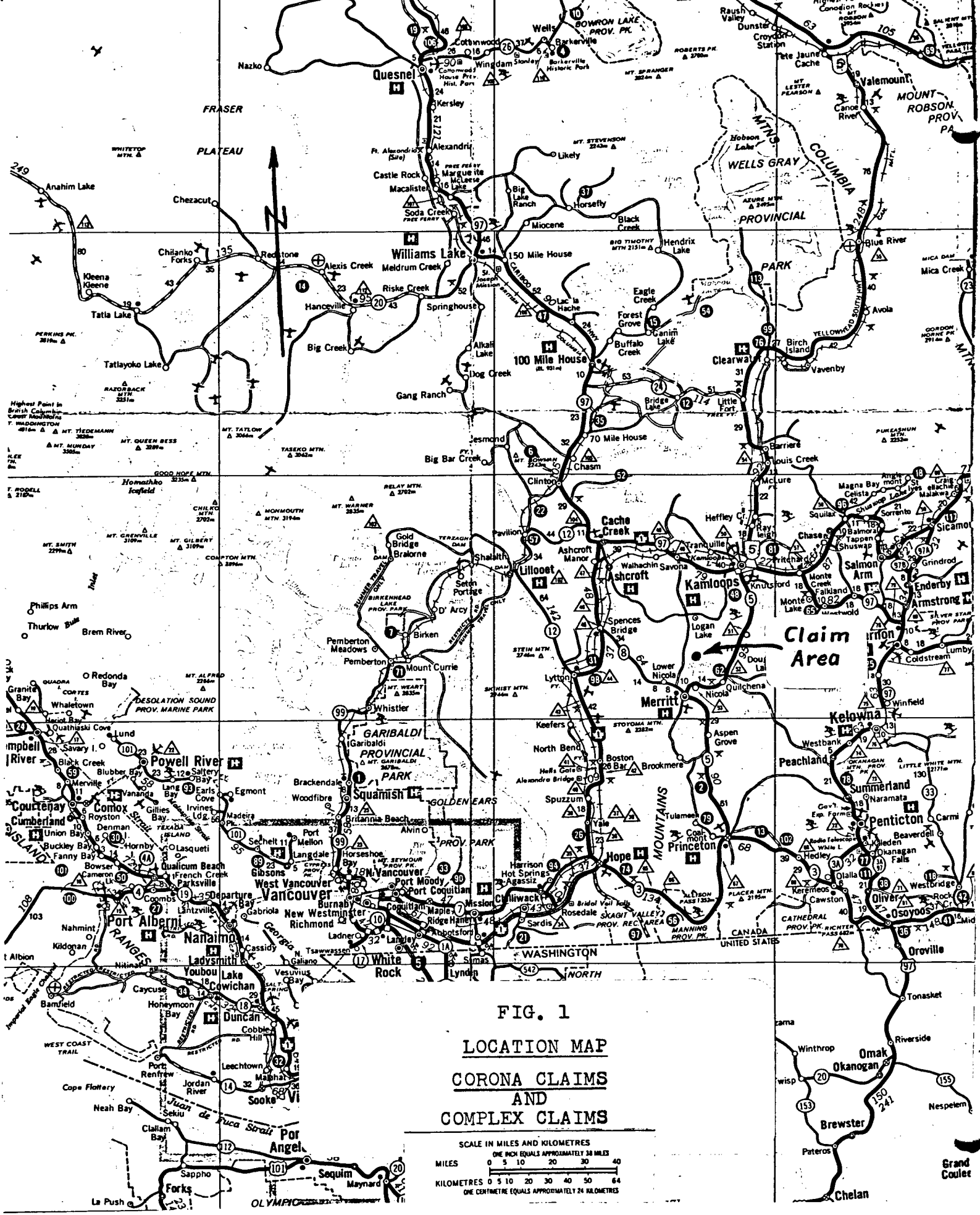


FIG. 1
 LOCATION MAP
 CORONA CLAIMS
 AND
 COMPLEX CLAIMS

SCALE IN MILES AND KILOMETRES
 ONE INCH EQUALS APPROXIMATELY 24 MILES
 MILES 0 5 10 20 30 40
 KILOMETRES 0 5 10 20 30 40 50 60
 ONE CENTIMETRE EQUALS APPROXIMATELY 2.4 KILOMETRES

Grand Coulee

REPORT ON
ASSESSMENT WORK
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INTRODUCTION

The following report is to put on record the exploration work conducted on two reverted Crown Grants, the Corona #1 (lot #4512) and Old Corona #2 (lot #4513) on Swakum Mtn., near Merritt, B.C., in the Nicola Mining Division. They are currently registered in my name.

LOCATION AND ACCESS

The two claims, which adjoin each other, are located three kilometres SW of the peak of Swakum Mtn., some 18 km straight NNE of Merritt, B.C. They are in the SW $\frac{1}{4}$ of the SE $\frac{1}{4}$ of map 92-I/7 of the N.T.S. maps, scale 1:50,000, the Mamit Lake sheet. The co-ordinates are $120^{\circ} 43'$ west longitude and $50^{\circ} 16'$ north latitude. The elevation of the claim area is about 5,400 ft. The summit of the mountain is 5,666 ft.

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

CLAIMS

The two, Old Corona reverted Crown Granted claims were acquired by me on July 3, 1979, on payment of the requisite fee. Old Corona No. 1, lot no. 4512, was given the Record

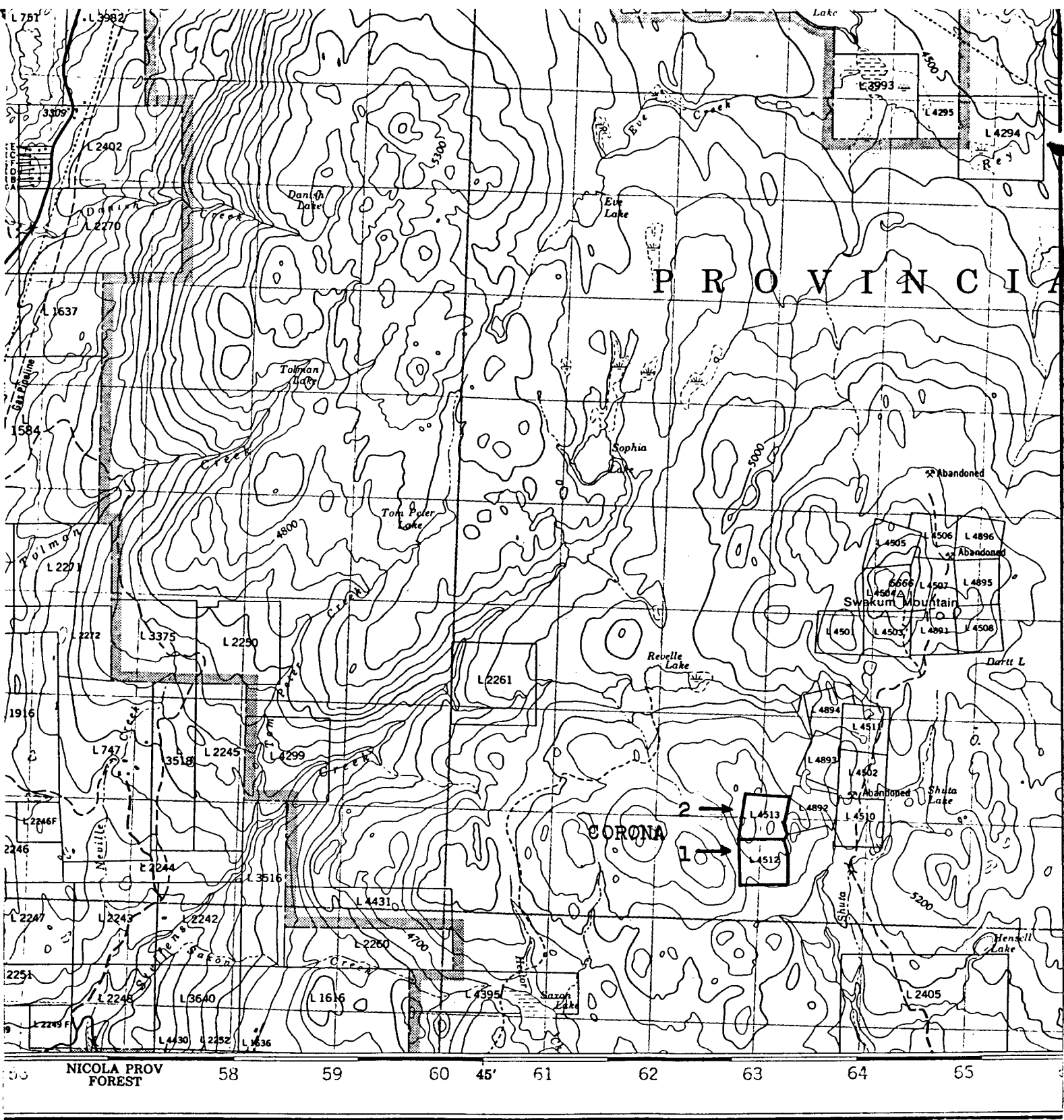


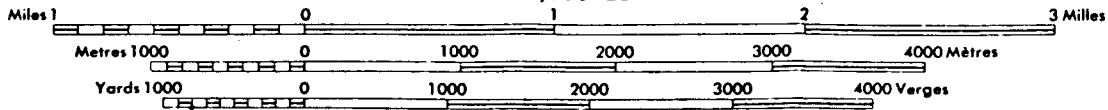
FIGURE
2

MAMIT LAKE
KAMLOOPS DIVISION OF YALE LAND DISTRICT
BRITISH COLUMBIA

CLAIM MAP

OLD CORONA
NOS. 1 & 2

Scale 1:50,000 Échelle



No. of 654. Old Corona No. 2, lot no. 4513, received Record No. 655. Both were dated July 3, 1979, in the Merritt office of the Gold Commissioner for the Nicola Mining Division. The Claim Map, Fig 2, faces this page.

EXPLORATION WORK

The exploration work carried out on these two claims, consisted of cutting and flagging six grid lines, sampling them at 50 metre intervals and analysing the samples for copper, zinc and silver. The lines were spaced 150 m apart, running east-west with stations at 50 m intervals, for a length of 500 m each. There were 66 stations flagged, but samples were not taken from three of them. There were therefor 63 samples taken and analysed.

GEOCHEMICAL SURVEY

The soil samples were taken at the designated stations, 50 m apart, along the six east-west grid lines spaced 150 m apart. Samples were taken from the B horizon, 15 cm to 30 cm in depth, and shipped in kraft envelopes to Bondar-Clegg & Company, in North Vancouver for analysis.

The metal content of the samples was determined by standard atomic absorption technique. Analyses were made for copper, zinc and silver. Results are shown on three sheets of the report returned from Bondar-Clegg & Co., bound in back of this report. Analyses on samples from other claim holdings in the area are also included, so those from the two Corona claims, with which this report is concerned, have been identified by check marks on the photo copies of the return.

EVALUATION OF RESULTS

The figures from the analytical returns have been entered on two maps, bound in back of this report. On one, the values for copper have been entered; the other shows

the values for zinc (above the line) and silver (below the line). The values are in ppm, parts per million.

Inspection of the map for copper indicates that a background value of 30 ppm may be assigned for that metal. The threshold value would then be 60 ppm and anything of 90 ppm or higher, would be considered truly anomalous. Interest would accrue to values of 60 ppm or higher.

The north claim, Corona #2, exhibits three above-threshold values; two are near the NW corner, 76 and 77 ppm at the base line (0+00E) on Lines 1+50N and 3+00N. The one on Line 1+50N coincides with very strong zinc and silver anomalies. The third threshold value is on Line 0+00 at 3+00E, with a value of 60 ppm. There is nothing of interest in zinc or silver at that location.

The south claim, Corona #1, carries two, strongly anomalous copper centers; 96 ppm at 4+00E on Line 3+00S and 178 ppm at 3+00E on Line 4+50S. The line connecting them strikes about N 30° E. Silver anomalies and high, sub-threshold zinc values are closely associated with these anomalies in copper.

Examination of the map for zinc and silver quickly reveals that the background for silver is evidently 0.2 ppm. Hence, 0.4 ppm is the threshold value and 0.6 ppm or higher is to be considered anomalous. For zinc, the background value works out at 62 ppm, with threshold value of 124 ppm and anomalous values are those of 186 ppm or higher.

A very strong zinc-silver anomaly at the Base Line on Line 1+50 N, showing 580 ppm in zinc and 7.5 ppm in silver, coincides with the nearly-anomalous value in copper of 76 ppm at that same location.

On Line 3+00S at 4+00E, a silver anomaly of 0.7 ppm coincides with the copper anomaly of 96 ppm. On Line 4+50S, there is a strong silver anomaly of 1.7 ppm at 2+50E, which is only one step west of the copper anomaly 178 ppm at 3+00E. In both cases, a below-threshold, but noticeable reading of

zinc lies at an adjacent station. On Line 3+00S, the reading of 101 ppm in zinc is at 3+50E, one station west of the copper-silver anomalies. On Line 4+50S, the zinc reading of 113 ppm is at 3+00E, the same location as the copper anomaly, but one station east of the silver anomaly.

On Corona #1 there is, in the southeast corner, a cluster of copper-silver-zinc values with a general trend of N 30° E, which is worthy of further investigation.

This soil sampling program was of a reconnaissance nature, since the lines were 150 m apart and the stations at 50 m intervals. Detail work is consequently advisable wherever attention-causing values appear. This applies to the anomalies at the Base Line on Line 1+50N and in the southeast corner, on Lines 3+00S and 4+50S.

A shaft was sunk on the Corona #1, some years prior to the examination by W.E. Cockfield, as reported in his "Geology and Mineral Deposits of the Nicola Map Area", Memoir 249 of the Geological Survey of Canada, Ottawa, 1948. This shaft was 500 ft. (150 m) east and 375 ft. (115 m) south of the NW corner of the Corona #1 claim (L 4512), according to the official survey map. This would put it between the 1+00 E and 1+50 E stations on Line 0+00 and 115 m south of that line, in an area where samples are, in the main, lacking. The shaft was full of water at the time of Cockfield's visit, but it was reported to him to be 65 ft. deep, to have encountered a mineralised lode 30 inches wide, striking N 40° E and dipping 80° NW. From some sacks of evidently hand-sorted ore in a shack, Cockfield determined that it carried galena, sphalerite and tetrahedrite, occurring as streaks and masses in quartz veining. Surface work had been conducted in the vicinity, within 300 ft. or so north and south of the shaft area. Various trenches and open cuts revealed veining without mineralisation in some cases, and in others there was slight mineralisation with galena, sphalerite and copper carbonates.

Most of the above workings were off-strike from the vein in the shaft and showed light or no mineralisation. The only one on-strike was the commencement of a shaft some 80 ft. NE of the main shaft. It was on a five-foot shattered zone in greenstone, carrying stringers of quartz mineralised with galena, sphalerite and copper carbonates. About 165 ft. N (not NE) an open cut revealed a vein 12 inches wide of quartz and country rock lightly mineralised with pyrite, galena, sphalerite and copper carbonates, striking N and dipping 20° W.

The above mineralised zones escaped detection in the 150 m spacing between lines, emphasizing the desirability of further, more detailed work on the Old Corona 1 & 2. The vein encountered in the shaft with a strike nearly parallel to the strike ($N 30^{\circ} E$) joining the strong anomalies in the SE portion of Corona #1, endows the latter with added interest and requires that additional, detail work be done in that area.

Consideration needs to be given to the possibility that the mineralisation in this area is irregular, vertically and horizontally. Consequently, there could be stronger mineralisation at depth in the bedrock, whose rock-surface expression might be only as sparse sulphides. With depth, on nearer approach to the presumed magmatic source, strength of mineralisation may be expected to increase. Therefore, even weak anomalies, if in an appropriate pattern, might repay deeper investigation by electrical methods, such as induced polarisation.

WORK PROGRAM

The above program of geochemical survey on Old Corona Claims 1 & 2, was carried out as follows:-

Laying out grid and taking soil samples on three kilometres of line, by Scope Exploration Services Ltd.....	\$200.00
Analysis of 63 soil samples @ \$3.65 each, for copper, silver and zinc, by Bondar-Clegg and Company Ltd.....	229.95
Cost of this report.....	<u>500.00</u>
	\$929.95

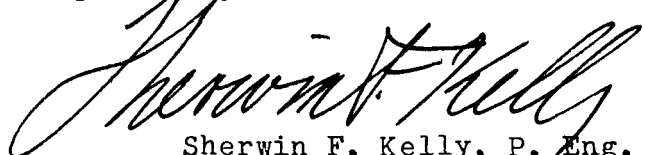
Of this sum, it is requested that \$400 be applied to Corona #2, Lot 4513, and \$500 be applied to Old Corona #1, Lot 4512. The sum of \$200, for grid lay-out and sampling, has already been applied for the year ending July 3, 1980. The balance, of \$300 for Corona #2 and of \$400 for Corona #1, is now requested for subsequent years.

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

The firm of Bondar-Clegg & Co. is nationally known 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.

Respectfully submitted



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

Box 277
Merritt B.C.,
VOK2B0
June 30, 1981

CERTIFICAT 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.

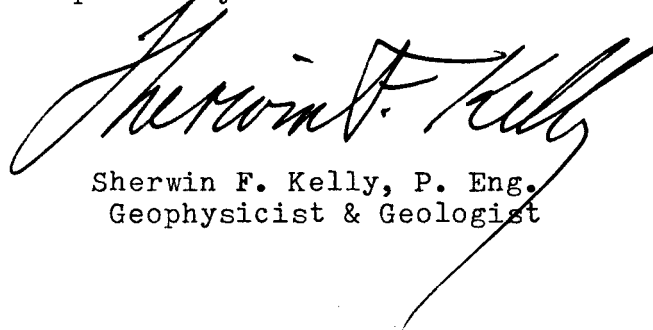
(2) I received the degree of Bachelor of Science in Mining Engineering from the University of Kansas in 1917. I pursued graduate studies at the University of Kansas, University of Toronto, and at the Universite de Paris (the Sorbonne) and Ecole des Mines in Paris. I received my instruction in geophysics 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 Corona Claims 1 & 2, Near Merritt, Nicola Mining Division, B.C.", dated June 30, 1981.

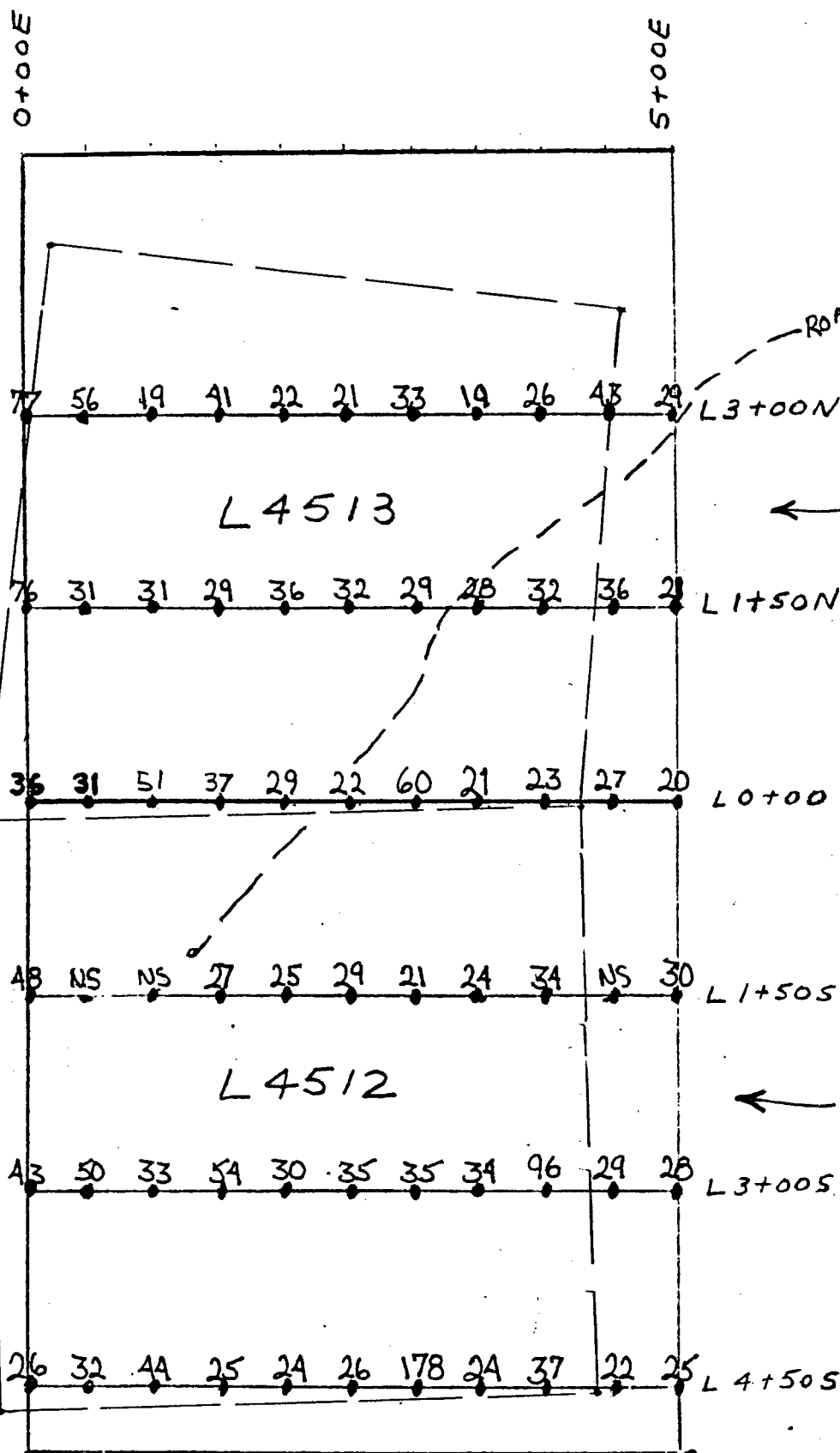
(5) I am the owner of the claims.

Respectfully submitted

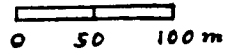


Sherwin F. Kelly, P. Eng.
Geophysicist & Geologist

Box 277
Merritt, B.C.
VOK 2B0
June 30, 1981



SCALE 1:5000



L4513

← Corona #2

L1+50N

L4512

← Corona #1

L0+00

L1+50S

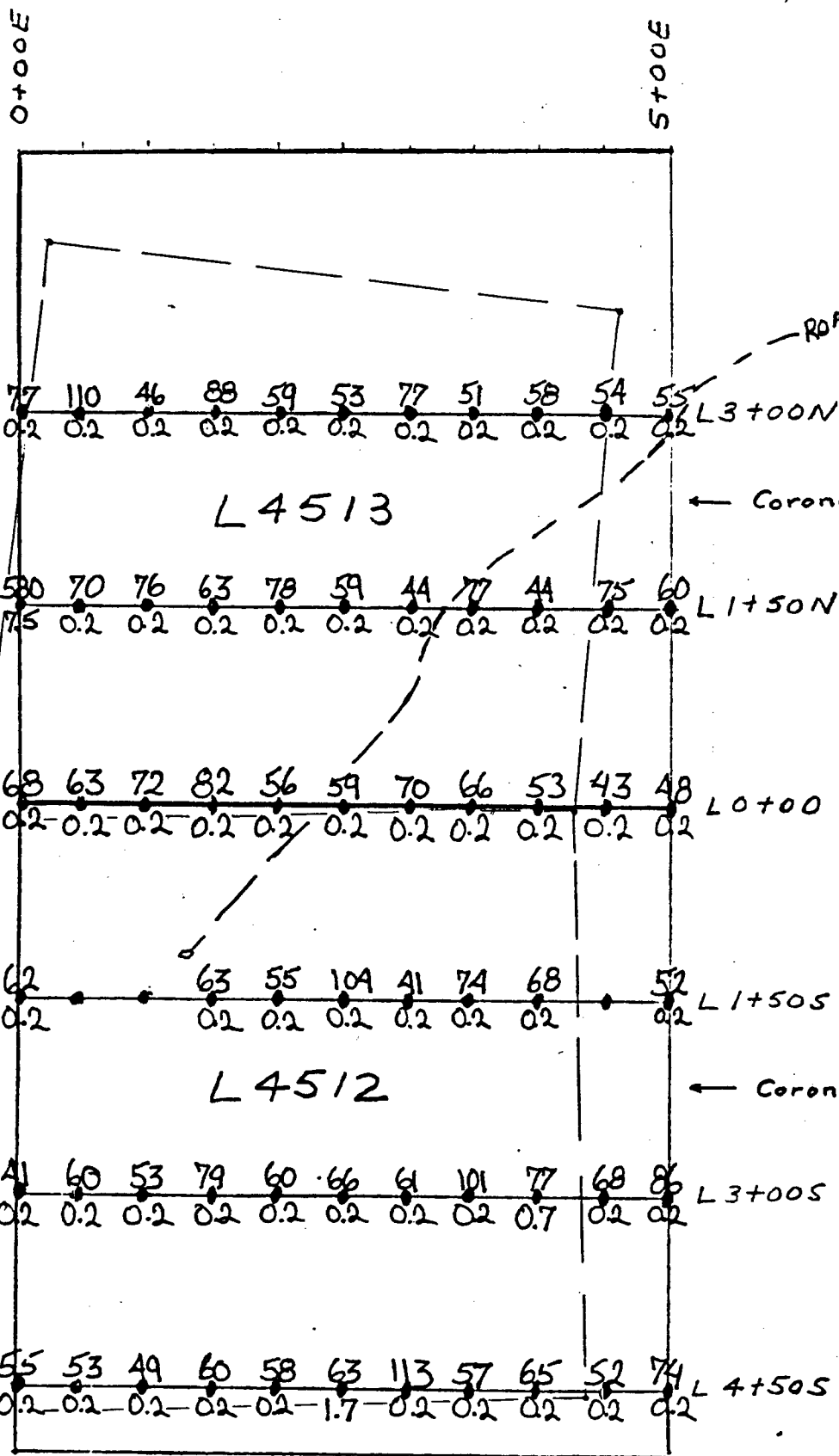
L3+00S

L4+50S

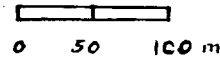
Claim lines

Corona
Copper
Soil Values

ppm Copper
Soil samples (spacing 50 meters)
L3+00N: 11 samples
L1+50N: 11 samples
L0+00N: 11 "
L1+50S: 11 "
L3+00S: 11 samples
L4+50S: 11 "
TOTAL 66 samples
Less 3 NS = 63 net samples
Soil Locations denoted by —●—



SCALE 1:5000



Corona
Silver-Zinc
Soil Values

ppm Zn Above
ppm Ag Below

Soil samples (spacing 50 meters)
 L3+00N: 11 samples
 L1+50N: 11 samples
 L0+00N: 11 "
 L1+50S: 11 "
 L3+00S: 11 samples
 L4+50S: 11 "
 TOTAL 66 samples
 Less JNS = 63 net samples
 Soil Locations denoted by —●—

INTN
NOV
5/84



BONDAR-CLEGG & COMPANY LTD.

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

PHONE: 985-0681

TELEX: 04-352667

Geochemical Lab Report

Method ✓ = Old Corona samples

Report No. 20 - 1858

Method _____

From Mr. Sherwin F. Kelley

Method Used _____

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		LO+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		LO-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	
LO+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	

BONDAR-CLEGG & COMPANY LTD.

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	

BONDAR-CLEGG & COMPANY LTD.

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	

Scope Exploration Services Ltd.

Box 1101
Merritt, B.C. V0K 2B0

STATEMENT

DATE	July 2nd./1980
NUMBER	

Phone 378-5384

9430

 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



BONDAR-CLEGG & COMPANY LTD.

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

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

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

W.O. No. **D 5691**

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