92I/2E

ELC GEOPHYSICAL REPORT

NO. EM-70-116

BUD CLAIMS GROUP

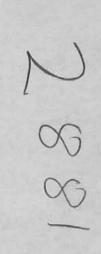
FOR L. OLHEISER

NEAR ASPEN GROVE, B. C.

120° W - 50° N

OCTOBER 4, 1970 to DECEMBER 28, 1970

BY D.L. HINGS, P. ENG. GEOPHYSICIST



This is Report No. EM-70-116 for L. Olheiser
BUD Claims Group
in the Nicola Mining Division

92 I /2E

in the Nicola Mining Division near Aspen Grove, B.C. October 4, 1970 to December 28, 1970.

TABLE OF CONTENTS

	PAGE
	
Purpose	1
Geological Reference	1
Location]	1
Presentation	2
Instrumentation	2
Geochemical Sampling Method	3
Results	3
Conclusions	5
Summary	5
Statement of Costs	6

PLANS

| EM PROFILE

EM-70-116



CERTIFICATE OF ANALYSIS- GEOCHEMICAL (ENCLOSED)

ELC GEOPHYSICS LTD. 250 North Grosvenor Ave. Burnaby 2, B.C.

298-9619

2.881

Department of

Mines and Petroleum Resources

ASSESSMENT REPORT

NO. 2881	MAP
----------	-----

ec geophysics Itd.

250 NORTH GROSVENOR, VANCOUVER, CANADA TELEPHONE: (604) 298-9619

ELC GEOPHYSICAL REPORT NO. EM-70-116 COVERING THE BUD CLAIMS GROUP, 120° W 50° N IN THE NICOLA MINING DIVISION AT ASPEN GROVE, B. C. FOR L. OLHEISER OCTOBER 4, 1970 to DECEMBER 28, 1970.

Purposet

The purpose of the EM survey over the BUD claims group in the Aspen Grove area was to determine the relative anomalous features created from geological formation changes and to periodically take geochemical samples to thereby geologically assess some of the anomalous EM features.

Geological Reference:

Geological Survey of Canada, Department of Mines and Technical Survey Memoir 249, W.E. Cockfield.

Location:

The Bud claims group and the area surveyed is approximately two miles north of Courteney Lake in the vicinity of Aspen Grove and approximately two miles east of No. 5 highway that extends between Aspen Grove

...con't...

and Merritt, B.C. The property extends to the east and south of Mount Nicola. The map reference coordinates are 120°36' W and 50° 03' N.

Presentation:

The survey as indicated on the plan EM-70-116 shows a central control line extending north and south with all gridlines crossing east and west. The coordinates begin at the south end at 0+00 and terminate at the north end at 100+00 N. There are 21 east-west gridlines averaging 500 foot spacing and extending in length on the northern portion of the survey.

Station spacing is at 100 foot intervals on both the gridlines and the control line, as well as the grid tie-in north south lines. A total of 18 miles were surveyed.

The survey lines are shown on the plan as the base line for the profile values wherein the two components are plotted in percentages plus and minus of zero value as indicated on the plan.

Instrumentation:

The infinite source electromagnetic instrument was used and is manufactured by Geonex Instruments Ltd. of Toronto. It is a model EM16 and operates on the signals received from the U.S. Navy Station NPG in the State of Washington, U.S.A. on a frequency of 18.6 KHZ. The survey was conducted maintaining an azimuth of approximately 200°.

Geochemical Sampling Method:

A total of 103 samples were taken over the grid as shown in Plan No. EM-70-116.

The samples were taken from the "B" Horizon first by removal of any overlying debris, then digging a hole, using a round-nosed spade, approximately 15 inches below the surface. A sample from the hole was packaged using a standard kraft soil bag obtained from TSL Laboratories Ltd., 325 Howe Street, Vancouver, B.C. The sample determinations were made by TSL Laboratories Ltd.

Results:

The Cl line extending generally north and south to the west of the control line indicates the approximate location of what would appear to be a contact between two formations. The second contact line C2 on the east side of the property also running north

and south would appear to be near the eastern limit of the most anomalous zone. Although there is a second anomalous feature indicated by CL5 as a conductive linear anomaly east of C2 contact area. The conductive linear anomaly CL1 east and parallel to the control line in the southern portion passes closely to some of the best geochemical results in that area. The conductive linear anomaly CL2 in the northwest portion of the survey has not yet been confirmed by CC3 in the northeast area also passes closely to the strongest geochemical results for copper. The conductive linear anomaly CL3 in the northeast area also passes closely to the strongest geochemical results for copper. The conductive linear anomaly CL4 has not yet been confirmed by geochemical analysis.

The linear anomaly L1 appears to be the western edge of the anomalous zone Z2 and passes near some of the highest geochemical results. The L2 linear anomaly in the northwest is quite prominent but has not yet been assessed geochemically. The L3 linear anomaly having a northeast southwest strike pattern has not been assessed geochemically but does show conduction in the southwest end and forms the western side of the anomalous zone Z1. The L4 linear

anomaly in the south is supported by above average geochemical results and the area to the east as far as L5, shows strong anomalous conductions.

Conclusions:

made from selected areas at alternate stations, these included the eastern portion of Zl and the general area of Z2, with a few gridlines in the south. The anomalies CLl, L4 and CL3 all appear to be valid as they are supported by geochemical analysis. It would appear that the general trend extends from the southwest to the northeast and there is a possibility of the linear anomaly L6 being a cross fault. The anomalous features to the east appear to be more north and south, whereas the linear anomalies to the northeast and west seem to have a northeast-southwest strike.

Summary:

There is some condirmation of copper mineral-

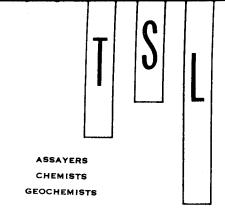
... con't ...

ization which could be greatly enhanced with more geochemical detail over the property.

D.L. Hings, P. Eng. Geophysicist

A STATEMENT OF COSTS FOR GEOPHYSICAL AND GEOCHEMICAL SURVEY NO. EM-70-116 COVERING THE BUD CLAIMS GROUP, NEAR ASPEN GROVE, B.C. BY ELC GEOPHYSICS LTD., OCT. 4, 1970 to DECEMBER 28,1970.

Survey Crew			
R.L. Reece W. Mather G. Olheiser	14 days @ 60.00 19 days @ 40.00 16 days @ 40.00	840.00 760.00 640.00	2240.00
Transportation	<u>on</u>		
4 x 4 Truck	19 days @ 12.00 750 miles @ 10¢	228.00 <u>75.00</u>	303.00
Living Costs			
Motel Meals	18 days @ 15.00 49 mandays @ 6.00	270.00 294.00	564.00
Equipment			
Ronka Misc.	19 days @ 10.00 19 days @ 5.00	190.00 95.00	285.00
Data Process	ing and Drafting		
D. A. Cramer	7 days @ 60.00		420.00
Interpretation	on and Report		
D.L. Hings,	P. Eng. 3 days @ 120.00		360.00
Geochemical	Analysis		128.75
TOTAL COST			\$ 4300.75
			+ +



325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613

CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504 AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ELC Grophysics

REPORT NO.

1-11 981

SAMPLE(S) OF

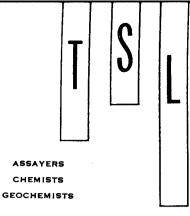
50,2

RESULTS IN PARTS PER MILLION

			28 31 25 23 40 42 50 W 46 W 40 38							
	SAMPLE I	No		Cυ	Pb	Zn	Ag	Ni	Мо	Со
1	L. 5N	100		28						
2		3								
3		2		25						
4		7		23						
5		9		40		· · · · · · · · · · · · · · · · · · ·				
6		1)		42						
7		13		50						
8	L- 5N	15w		46						
9	L- 10N	IW								
10	L- 10N	30								
	- 1014			<u> </u>			-			-
11	L- 10N	5w		97						
2	1014	7								
		9		73						
3		1	7.5	54						
4		11		68						
. 5		13		31						
6	L- 10 N	15w		10						
7	L- 15N	1 W		39						
8		3		32						
9		5		30						
20	L- 15N	Tw		39						
-										

Dec 22/70





325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613 CODE NAME: TSL-LABS-VCR. **TELEPHONE 688-3504** AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ELC Deophysics

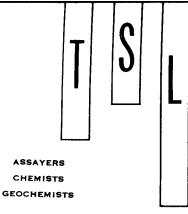
REPORT NO.

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

			N.E.	.50L15 1N P.	ARIS FER I	MILLION		
	SAMPLE No	Cu	РЬ	Zn	Ag	Ni	Мо	Co
24	L- 15N 9W	30						
2	11	32						
3	13	34						
4	L- 15N 15W	23						
5	1- 204 /W	47						
6	3 5	45						
7	5	43						
8	7	18						
9	9	62						
30	L- 204 11W	44						-
31	L-20N 13W	33						
2	L- ZON ISW	38						
3	L- 35N 1+00E	38 54						
4	3	60						
5	5	83						
6	7	53						
7	9	71						
8	1	71 58						
9	13	49						
1 0	L-35 N 15+00E	59						





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613 CODE NAME: TSL-LABS-VCR. TELEPHONE 688-3504 AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ELC Beophysia

REPORT NO.

SAMPLE(S) OF

load

RESULTS IN PARTS PER MILLION

	CAMPLE N. C.							
	SAMPLE No	Cu	РЬ	Zn	Ag	Ni	Мо	Со
41	L- 404 1+00E	23						
2	3	34						
3	5	217						
4	7	55						
5	٩	64				-		
6		49						
7	13	45						
8	L-40N 15+00E	70	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
9	L- 45N 1+00E	82			-			
50	L- 45N 3+00E	53						
				-				
51	L- 45N 5+00E	38						
2	7	68	_					
3	9	61						
4	1\	110						
5	13	56						
6	L-45N 15+00E	53						
7	L- 50N 1+00E	39						
8	3	95						
9	S	62						
60	L- 50N 7+00E	63						

SIGNED

RB letche





Laboratories Limited

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613
CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504 AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM ELC Weophypius

REPORT NO.

SAMPLE(S) OF

l.sc

RESULTS IN PARTS PER MILLION

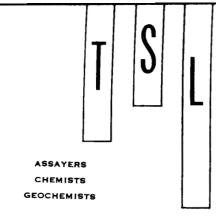
			RESOLIS IN FAMILY PER MILLION								
	SAMPLE No	Cu		Pb Zr	Ag	Ni	Мо	Co			
6	L-50N 9E	3	8'								
2	\ \'	3;	2.								
3	13	6	7								
-4	L- 50 N 15	30	2								
5	L- 60 N 17	10	8								
6	19		3		•						
7	21	10 5 6	2								
8	23	9:	Q.								
9	25	5	4								
٦٥	L- 60N 27E	5.	5"					,			
71	L-61N 29E	2;	7								
2	L-60N 29e	3:	5								
3	33	45	3								
4	4-60N 35E	5	9								
ž	1.	5	-								
6	19	4:	3								
7	21	5									
8	23 25	8	6								
9	75	70	2								
80		6:	9								

Dec 22/70

SIGNED

AB letcher





aboratories

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613 CODE NAME: TSL-LABS-VCR.

TELEPHONE 688-3504 AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ELC Doophysics

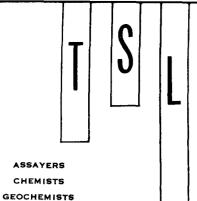
REPORT NO.

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

	T							
	SAMPLE No	Cυ	РЬ	Zn	Ag	Ni	Мо	Со
& 1	L-65N 29E	40						
2	31	56						
3	L- 65N 33E	45						
4	L- 70N 17E	121						
5	19	150						
6	21	32						
7	23	39						
8	25	43						
9	27	36						
10		35						
91	L-70N 31E	33						
2	33	30						
3	L-70N 35E	34						
4	L- 75N 17E	52						
5	19	61						
6	2)	53						
7	23	48						
8	25	43						
9	27	36						
10	L- 75N 29E	45						





aboratories

325 HOWE STREET - VANCOUVER 1, B.C.

TELEX: 04-50613 CODE NAME: TSL-LABS-VCR. **TELEPHONE 688-3504** AREA CODE 604

CERTIFICATE OF ANALYSIS

SAMPLE(S) FROM

ELC Doophypics.

REPORT NO.

SAMPLE(S) OF

RESULTS IN PARTS PER MILLION

		RESOLVE IN TAKES FER MILLION											
		SAMP	LE No				Cυ	РЬ	Zn	Ag	Ni	Мо	Со
18	<u>L.</u>	- 75	N	3/6			40						
	2			33			45						
:	3		· .	35			46						
10	<u> </u>	75	N	37 E			47						
	5												
	6					_							
	7		Hol	-ag	na ?	reg	nu.	extr	actro	<u>~</u>			
	8												
	9		L).	ters	nined		hy ar	tome	as	orpi	lon		
	0						7						
						0							
	1												
	2	· -					!						
	3			<u></u> .									
	4								-				
	5												
	6												
	7							_					
	8			· ·			· · · · · · · · · · · · · · · · · · ·						
	9												
	0												
			*								L		L

Dec 22/70



