

LOG NO: 6628	RD.
ACTION:	
FILE NO:	

1990 - 91, 6 Element GEO - CHEM SURVEY RESULTS

AND

MAGNETOMETER AND VLF-EM SURVEY RESULTS

THE VAD MINERAL GROUP CLAIMS

THE GOLDEN MINING DIVISION, GOLDEN, B.C.

NTS MAP: M82K/15W

Lat. 50 Deg. 55 Min.

Long. 116 Deg. 55 Min.

for

James S. Adamson, (Operator)

James S. Adamson, Owner of the VAD MINERAL GROUP,  
Calgary, Alberta.

Report prepared by- Bruce H. van der Lee, P. Eng.  
JUNE 4, 1991.

21,448

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ASSESSMENT REPORT**

**21,448**

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MAGNETOMETER AND VLF-EM REPORT

6 ELEMENT GEO-CHEM MAP

### PROPERTY

The property consists of one unpatented mineral claim containing 20 units, and 6 claims of one unit each, for a total of 26 units.

It is known as the VAD Mineral Group.

The VAD Mineral Group is owned by James Adamson of Calgary, Alta.

### LOCATION AND ACCESS

The VAD Mineral Group is located between Crystalline and Conrad Creeks, and approximately 1500 meters south of the junction of Conrad and Vowell Creeks.

The claim group is 56km from Parsons, B.C., and is accessible by an all-weather road. Parsons is served by Highway 97 and the CPR.

The property is on the west slope of the Vowell Creek valley at an elevation of 1300 to 2000 meters. Much of the property is accessible by 4 wheel drive vehicles over existing logging trails.

Although the valley is heavily timbered about a third of the claim area has been logged.

### ECONOMIC GEOLOGY

The VAD mineral group is an interesting prospect as it appears to be on strike with the Columbia River mines property to the north-west. Columbia River Mines was in operation during the 1970's and shipped lead-silver concentrates to the smelter.

## GEOLOGY

The claim area is in the Purcel Range, and was mapped by J.E. Reesor, (G.S.C.) Map 12, 1957, (Lardeau Half)

The claims are underlain by rock of the Horsethief Creek Series, which consist of argillite, quartzite, pebble conglomerate, and limestone of the late precambrian age. The mineralization appears to have come from a large stock of granodiorite of the Mesozoic age which lies to the southeast. There are several folds in the area with dips of approximately 25 degrees. The ore body at Columbia River Mines occurs in such a synclinal fold within a limestone band.

The VAD property has few outcroppings due to heavy overburden in the area, and detailed geology in the area being investigated at the present time is next to impossible.

## INTRODUCTION

During the 1990 - 91 season work was done on the VAD mineral claim group to determine what relationship the gold showings had to other minerals in the soils to assess the nature of the deposit and its probable potential. A 6 Element Geo-chem Analysis was done on the pulps from the previous geo-chem surveys as reported in the 1988 - 89, and 1989 - 90 assessment reports on the VAD -1- claim.

These pulps had been stored at Loring Laboratories in Calgary, and were sent to Placer Domes' Laboratory in Vancouver for the 6 element analysis which is included in this report.

A magnetometer and VLF-EM Survey was also done over the existing geo-chem grid area by H.T. Calvert, M. SC. Geophysics, and the results are included in this report

### GEO-CHEM REPORT

The 6 element geo-chem analysis results show an interesting relationship between the gold values and the arsenic content in the soils. Where the arsenic readings are high there is usually an increase in gold values. Higher copper and zinc values are also found to be associated with some of the locations showing the higher gold readings. The piritic slate zones which show many of the high gold values are also carrying some of the higher copper and arsenics. The 6 element survey was done for Ag, As, Au, Cu, Pb and Zn, on 135 samples. All readings shown in the report as NSS indicate that "not sufficient sample" was available from the pulps supplied for analysis.

### MAGNETOMETER AND VLF-EM SURVEY

The magnetometer survey was conducted over the area of the previous geo-chem surveys and shows interesting magnetic lows over the piritic slate zones which carry some of the higher gold and arsenic values.

The VLF-EM survey done over the same area did not detect any cross overs in the area surveyed. However the steep terrain and the necessity of having to use the Jim Creek (Seattle), Washington station, instead of the better positioned Cutler, Maine Station, ( which was not operating at the time of Survey) may have been responsible for the lack of positive results.

### CONCLUSIONS AND RECOMMENDATIONS

The 6 Element Geo-Chem Survey and the Magnetometer Survey indicate that the mineralization is associated with the two piritic zones. The magnetometer survey correlates with the two zones

located by the previous geo-chem survey and should therefor be expanded to the southeast and the northwest to extend the present known mineralized area. The resulting survey should then be followed up with a geo-chem survey to determine the better locations for trenching and possible drill sites. Depending on the results of these surveys which may locate zones of higher mineral content, another VLF-EM Survey may prove very usefull.

C E R T I F I C A T E

This is to certify that I, Bruce H. vander Lee,

1. Am a resident of Calgary, Alberta, and live at # 1100  
1122 - 4th Street, S.W. T2R 1M1.
2. Am a graduate of the University of Alberta, B. Sc. in  
Mining Eng. (1979)
3. Am a Member of APEGGA.
4. Have no interest direct or indirect in the properties  
known as the VAD Mineral Group Claims.
5. Have authorized this report after examination of the  
field data and the G.S.C. reports pertaining to the  
area.

Bruce H. van der Lee, P. Eng.

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STATEMENT OF COSTS FOR THE VAD MINERAL GROUP CLAIMS, (26 UNITS),  
FOR 1990 - 91.

Claim            VAD MINERAL GROUP CLAIMS    -    26 Units.

MAP No.        82K/15W

Mi. Rec. Nos.    0577065, 1000012, 1000002.

Rec. Nos.      1893, 2050, 2051, 2052, 2205, 2206, 2207, .

These Claims were recorded at Golden, B.C.: - VAD 1, on July 6/88,  
- AVD 1, 2, 3, on Sept. 16/89, - DAV 1, 2, 3, on July 18/90.

Geo-Chem and Rock Assays .....	1524.50
Geophysicist 1-1/2 days .....	300.00
Preparing Magnetometer and VLF-EM Report .....	150.00
Instrument rentals .....	75.00
Labor (flagging etc.) 1 man 2 days @ 8.00 per day .....	128.00
Board:- 4 days @ 15.00 per day .....	60.00
Flagging and supplies .....	35.00
Chain saw:- 8.00 day 2 days .....	16.00
4 X 4 35.00 per day, 2 days .....	70.00
Travel in B.C. 45.00 per trip - 1 trips .....	45.00
Copies of reports and maps .....	37.55
Prepairing report and 6 element map .....	250.00
Total Costs .....	<u>2691.05</u>

SUMMARY OF WORK DONE ON VAD 1 MINERAL CLAIM FOR 1990 - 91.

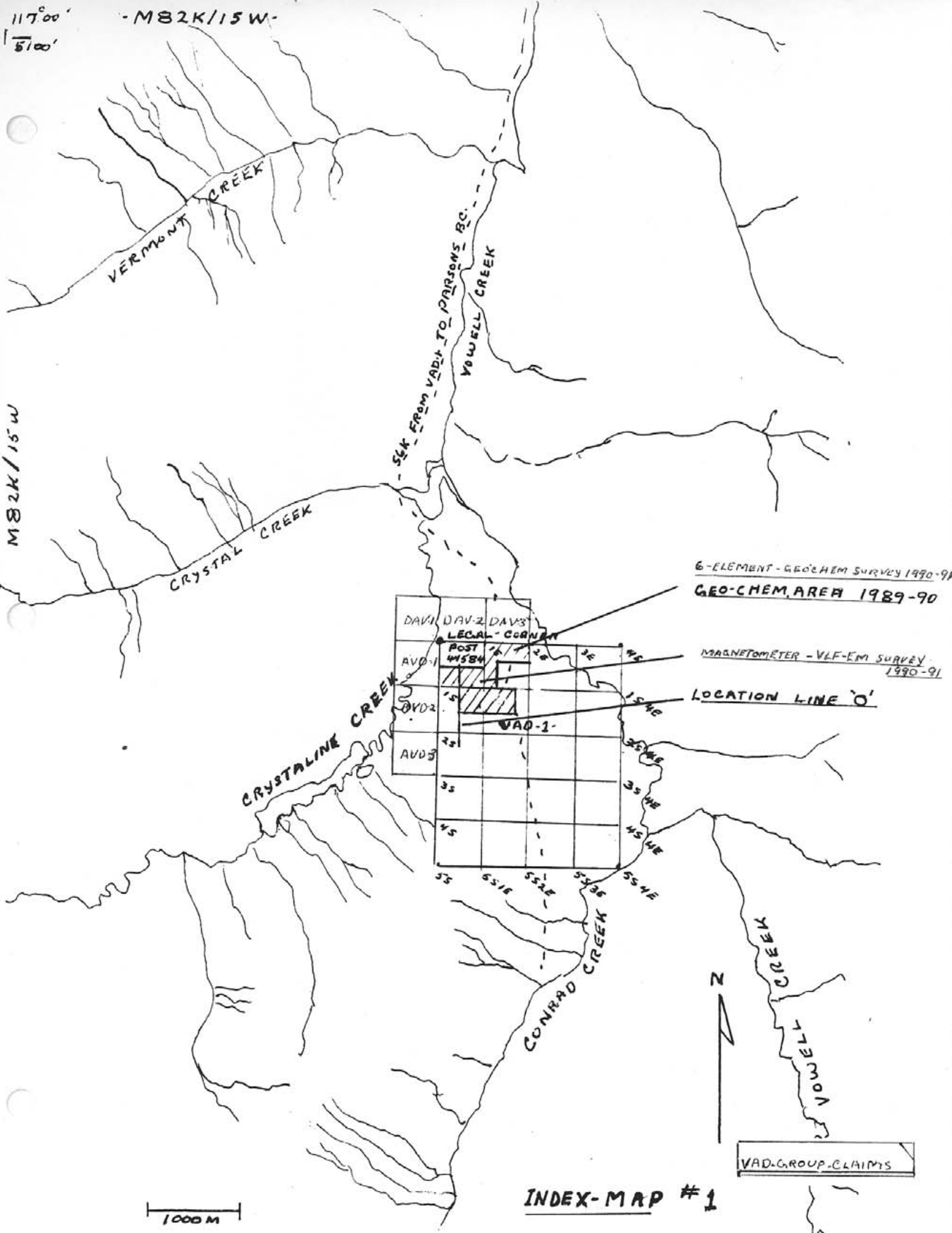
Some of this years work was done to determine what relationship the previous gold showings had to other minerals in the soils to access the nature of the deposit and its' probable potential.

A 6 element geo - chem analysis was done over the existing geo-chem area using the pulps from the previous geo-chem surveys as reported 1988-89, and the 1989-90 assessment reports on the VAD property. These pulps had been stored at Loring Laboratories in Calgary and were sent to the Placer Dome Inc. Laboratory in Vancouver where the analysis was done. The geo-chem area covered by this new survey was done on portions of units 0-1S-1E, 1S-2S-1E, and 1E-1S-2E. The survey covered about 75 hectares. This Geo-Chem Analysis was done on 135 samples for Ag, As, Au, Cu, Pb and Zn.

4 samples were Assayed for Au, and Ag.

117°00' - M82K/15W -  
5100'

M82K/15W



6-ELEMENT-GEOCHEM SURVEY 1990-91  
GEO-CHEM AREA 1989-90

MAGNETOMETER-VLF-EM SURVEY  
1990-91

LOCATION LINE '0'

VAD.GROUP.CLAIMS

INDEX-MAP #1

1000 M

117°00'

51°00'

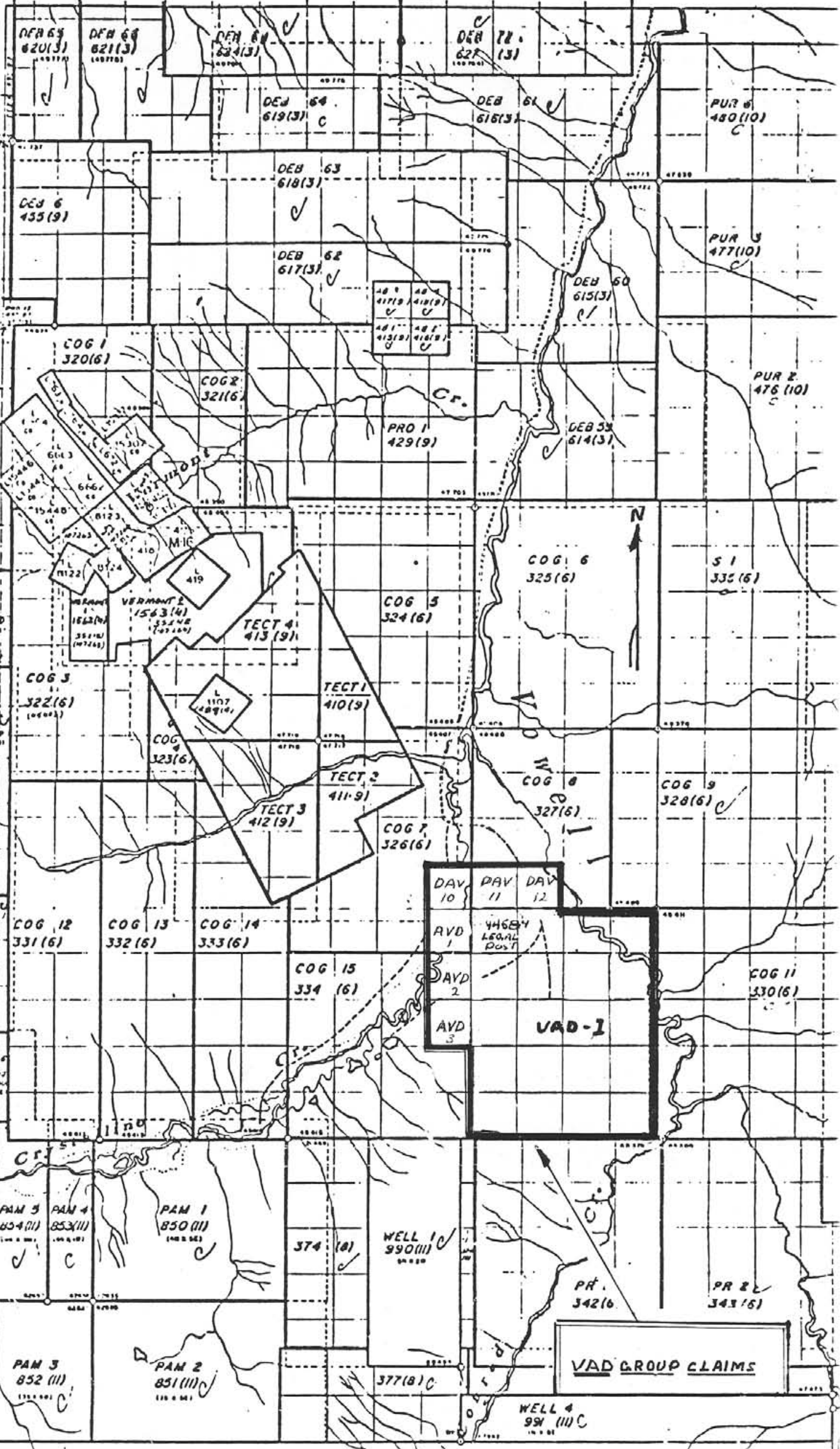
M82K/15W

(FCZ PLACER SEE P 82K/15W)

6

5

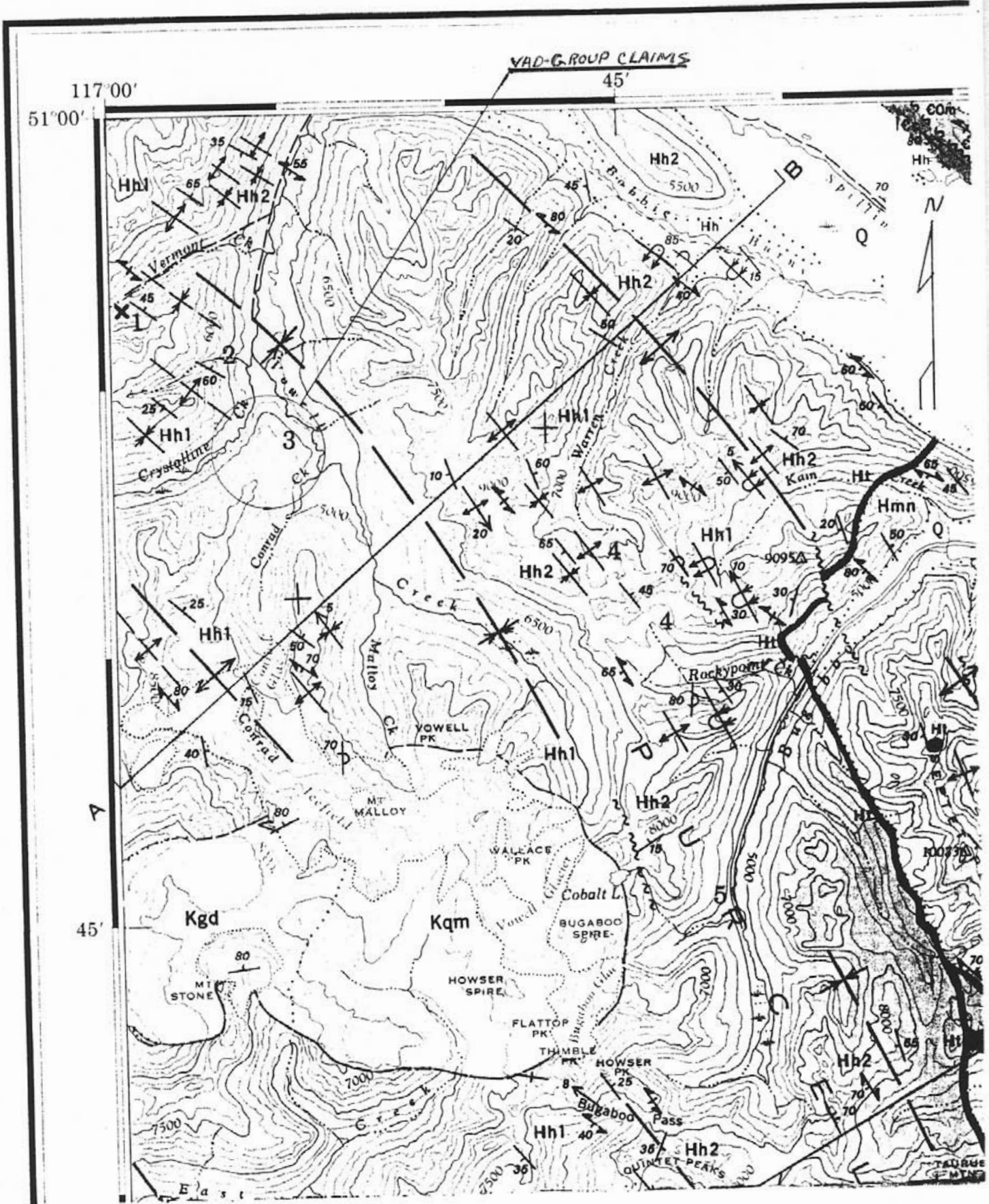
4



VAD GROUP CLAIMS

1000 M

MAP # 2



GEOLOGICAL MAP #3

4000 M

GEOPHYSICAL REPORT  
VAD-1 CLAIMS  
GOLDEN MINING DIVISION  
BRITISH COLUMBIA

BY H.T. CALVERT

M.SC. GEOPHYSICS, B.SC. GEOLOGY

1125 Casson Green N.W., Calgary, Alberta T3B 2V6

AUGUST 1, 1990

INTRODUCTION

Magnetometer and VLF-EM surveys were conducted in the vicinity of the gold - silver - lead - zinc showing on the VAD-1 Claims on July 28, 1990. The VAD-1 claims are located south of Bobbie Burns Creek, approximately 40 kilometres west of Parson, B.C. Access to the claims is by logging roads. Five flagged lines were traversed for a total of 3800 feet of survey.

MAGNETOMETER SURVEY

A GEOMETRICS G816 proton precession magnetometer was used to measure the earth's total magnetic field. The sensor was placed on a staff about 6 feet above the ground. The readings were corrected for diurnal drift by resampling established base stations after each line was completed. The data was plotted on a map at a scale of 1" to 100' and contoured.

The total magnetic field map shows two narrow zones of magnetic lows extending southeast from the 1100S line. These trends correlate well with the mineralized showings and anomalous soil geochemistry. The lows are likely due to the presence of pyrite rather than magnetite in the sulphide zone. These zones do not appear to extend north of the 1100S line, likely due to an east-west trending fault. Similarly a zone of high total magnetic field (>58075 gammas) does not extend south of the 1100S line.

#### VLF-EM SURVEY

A GEONICS EM-16 VLF Receiver was used to try to locate any conductors associated with the mineralized showings. The EM-16 measures the electromagnetic field of VLF transmitters which have been set up around the world for marine navigation. If an electromagnetic conductor is present, the orientation and strength of the field will be effected. The transmitter used for this survey was Jim Creek (Seattle), Washington which has a frequency of 24.8 kHz. The station at Cutler, Maine was not operating during the day of the survey and could not be used.

The VLF-EM survey did not detect any VLF cross-overs in the survey area. A positive shift in both the in-phase and out-of-phase components is likely due to the steep terrain affecting the EM field. Also, the location of the Jim Creek transmitter is nearly perpendicular to the magnetic trends, and would therefore not respond well to EM conductors trending southeast. A survey using Cutler or Annapolis as the transmitter may be more successful. The highest in-phase values that were

measured line up in a southeast trend corresponding to the westernmost low magnetic field zone, which indicates conductivity may be associated with the zone.

#### CONCLUSIONS

Two zones of low total magnetic field which trend southeast from Line 1100S were identified. These zones correlate with the mineral showings and the anomalous soil samples. The zones do not appear to extend north of the 1100S line, indicating the presence of an east-west fault which truncates the zones. These zones could extend for considerable distance to the southeast, and likely have extensions somewhere north of the fault.

#### RECOMMENDATIONS:

The high gold - silver - lead - zinc assays from the showings and anomalous soil geochemistry values appear to be associated with the magnetic lows and therefore a more extensive magnetometer survey is warranted. Initially a magnetometer survey could be done to extend the zones to the southeast in order to search for other showings on the same trend. A much larger survey could be used to attempt to locate the faulted extension of the zones to the northwest. Additional VLF-EM surveys using Cutler or Annapolis stations may also prove successful, especially in zones where mineralization is much more prevalent. Ideally a terrain compensating EM technique such as C.E.M. should be used. Geological mapping should also be done in order to establish a model for the observed mineralization.

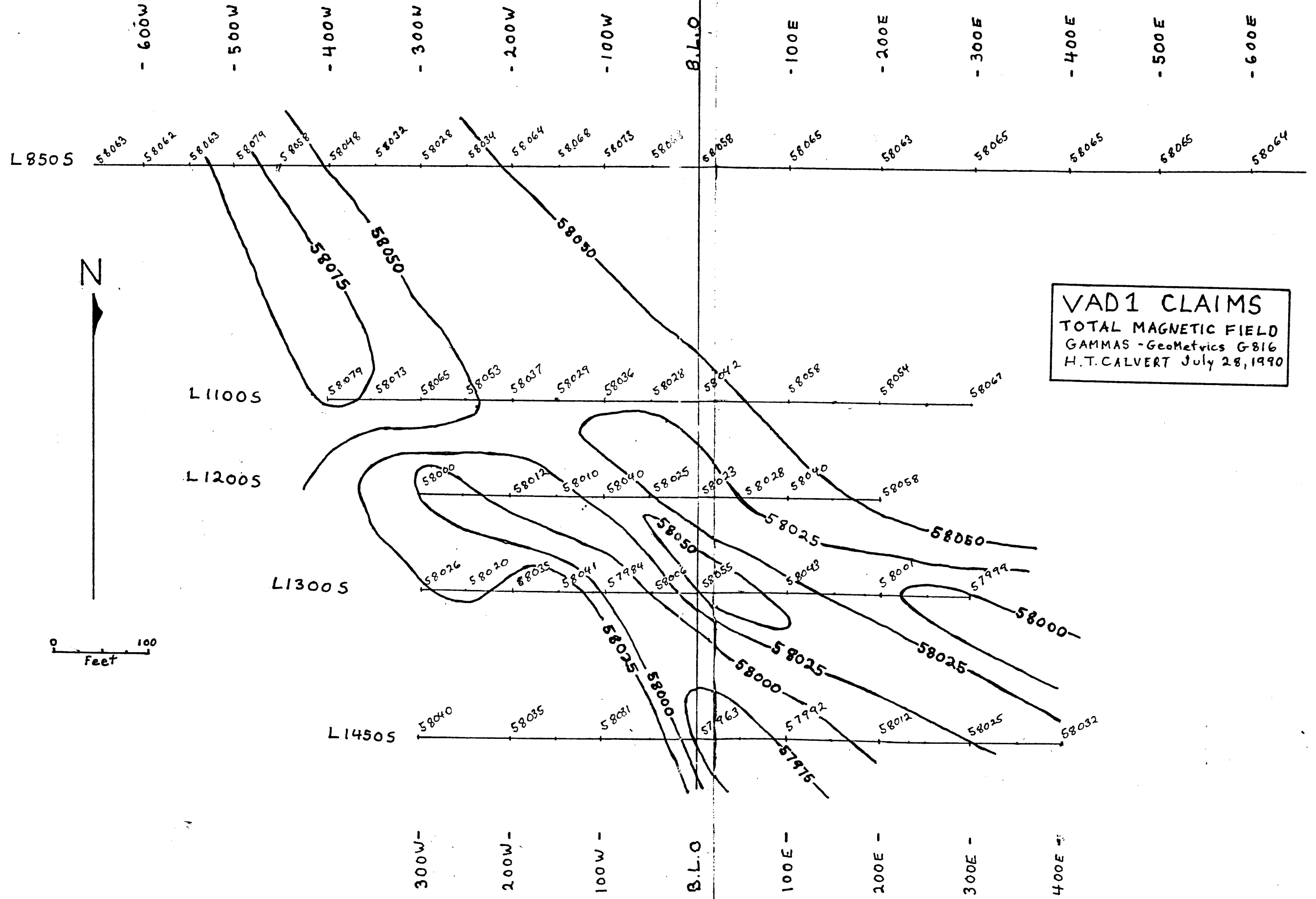
*H. T. Cabot Aug 1, 1971*

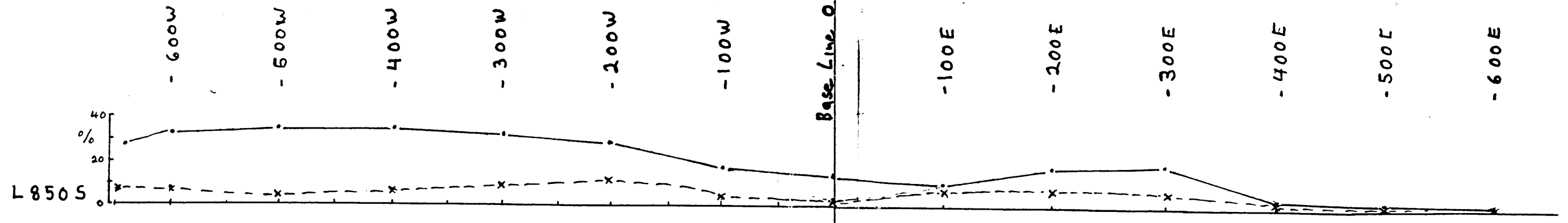


## BIOGRAPHY

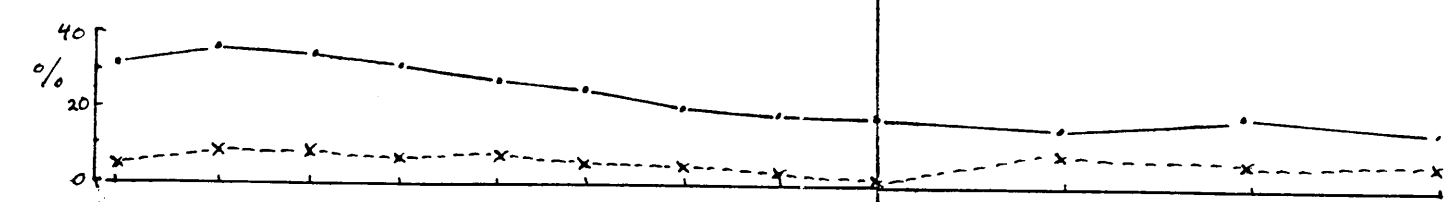
H. Thomas Calvert, M.Sc.(Geophysics), B.Sc.(Geology)

H.T. Calvert received an M.Sc. in Geophysics from the University of Calgary in 1988 and a B.Sc. (Honours) in Geology from Brock University in 1983. Mr. Calvert has worked as both a geophysicist and geologist in mining exploration, oil and gas exploration, and government in Ontario, Alberta and B.C.. He is presently a geophysical research assistant with the Department of Geology and Geophysics at the University of Calgary.

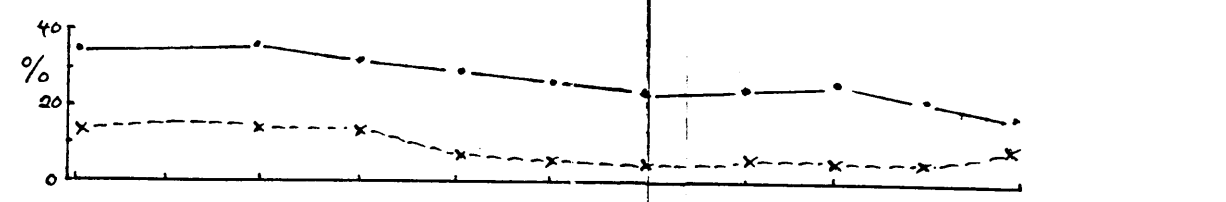




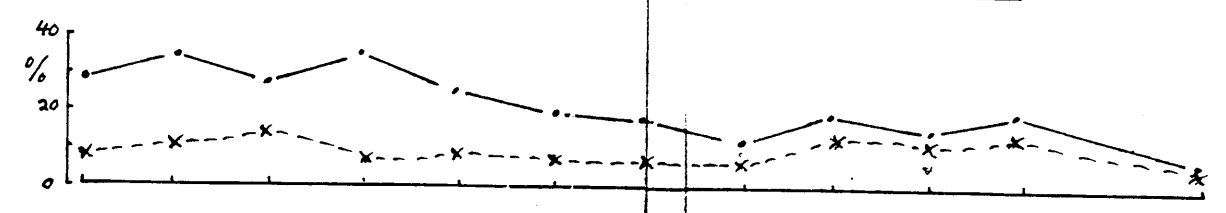
L1100S



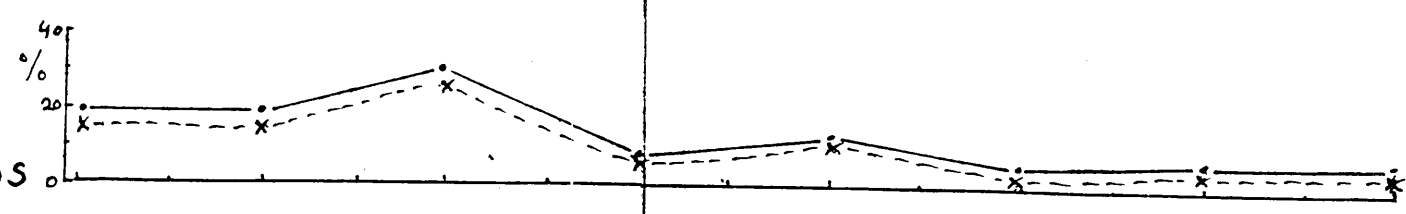
L1200S



L1300S

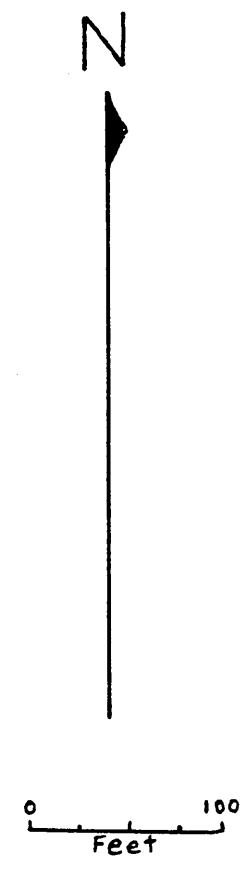


L1450S



VAD1 CLAIMS  
 EMIG VLF SURVEY  
 STATION: JIMCREEK WA 24.8KHZ  
 H.T. CALVERT July 28, 1970

• In Phase  
 x Out of Phase (Quadrature)



300W - 200W - 100W - B.L.0 - 100E - 200E - 300E - 400E -

P L A C E R   D O M E I N C   ( V A N C O U V E R   L A B O R A T O R Y )

GEOCHEMICAL DATA LISTING: SEBC 1G VAD-1 CLAIM

PDI lab data file: P0336  
AREA: VAD-1 CLAIM  
MAPSHEET NO:  
VENTURE: SEBC 1G  
GEOLOGIST: M GAREAU  
LAB PROJECT NO: 0336

PLEASE DISTRIBUTE RESULTS TO: MG EG EK RH LAB

REMARKS:  
"SAMPLES PREPARED BY LORING LABS"  
"AU1 RESULTS IN PPB; AU RESULTS IN PPM BY FIRE ASSAY"

PDI lab data file: P0337  
AREA: VAD-1 CLAIM  
MAPSHEET NO:  
VENTURE: SEBC 1G  
GEOLOGIST: M GAREAU  
LAB PROJECT NO: 0337

PLEASE DISTRIBUTE RESULTS TO: MG EG EK RH LAB

REMARKS:  
"SAMPLES PREPARED BY LORING LABS"

STANDARD ANALYSIS METHODS USED BY PDL GEOCHEM LAB ARE LISTED BELOW:  
ALL RESULTS EXPRESSED AS INDICATED IN UNITS COLUMN BELOW  
ANY EXCEPTIONS FOR THIS PROJECT ARE NOTED ABOVE

REMARKS: INTERNAL LAB STANDARDS HAVE BEEN INCLUDED FOR REFERENCE.  
SAMPLE NUMBERS FOLLOWED BY \* ARE DUPLICATE ANALYSES.

	UNITS	WT.G	ATTACK	USED	TIME	RANGE	METHOD
AG	PPM	0.5	HClO4/HNO3		4HRS	0.2-20	A.A. BACKGROUND COR
AS	PPM	0.5	AQUA REGIA		3HRS	2-2000	DC PLASMA
AU	PPM	25.0	FIRE ASSAY		45MIN	0.01-1000	ATOMIC ABSORPTION
AU1	PPB	10.0	AQUA REGIA		3HRS	5-4000	A.A. SOLVENT EXTRACT.
CU	PPM	0.5	HClO4/HNO3		4HRS	2-4000	ATOMIC ABSORPTION
PB	PPM	0.5	HClO4/HNO3		4HRS	2-3000	A.A. BACKGROUND COR.
ZN	PPM	0.5	HClO4/HNO3		4HRS	2-3000	ATOMIC ABSORPTION

NOTE    NSS = not sufficient sample material for analysis.

PDI GEOCHEM SYSTEM: Data From: SEBC 1G VAD-1 CLAIM

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au PPM	Au1 PPB	Cu PPM	Pb PPM	Zn PPM
<u>NOTE</u>	VAD	1 0336	44	0.48%		1500	480	350	70
for comparison	VAD	2 0336	480	1170		460	240	8.20%	112
to your assay	VAD	3 0336	287	40		175	0.31%	59.6%	0.98%
values refer	VAD	4 0336	33	1170		270	140	1320	400
to attached	VAD	5 0336	62	760		50	660	0.57%	2.19%
copies of	VAD	6 0336	77	1620		170	320	1.30%	900
certificates	VAD	7 0336	11	1000		30	52	630	1930
	VAD	8 0336	9.0	1310		100	124	580	0.30%
	VAD	9 0336	4.0	0.18%		160	107	240	1510
test	STD P1	0336	0.2	24			27	58	151
	VAD	10 0336	6.0	740		50	35	99	99
	VAD	11 0336	2.0	1930		85	45	52	99
	VAD	12 0336	0.5	1380		55	71	68	89
	VAD	13 0336	450	5.56%	59.7		0.81%	19.0%	0.83%
	VAD	14 0336	164	1320		865	370	0.81%	90
	VAD	15 0336	21	1670		330	132	1750	740
	VAD	15* 0336	21	1660		130	126	1620	750
test	STD CU	0336		1660			0.40%		
test	STD PB-ZN	0336		1660				0.86%	0.54%
HR		1 0337	0.3	460		<5	84	✓270	50
HR		2 0337	NSS	NSS		NSS	NSS	NSS	NSS
HR		3 0337	0.5	960		43	83	✓118	128
HR		4 0337	<0.2	510		NSS	60	25	50
HR		5 0337	NSS	NSS		NSS	NSS	NSS	NSS
HR		6 0337	<0.2	400		20	54	58	103
HR		7 0337	1.0	300		<5	66	63	59
HR		8 0337	0.8	290		<5	52	<2	13
HR		9 0337	0.5	188		5	52	<2	<2
HR		9* 0337	0.5	185		<5	54	7	<2
HR		10 0337	0.6	370		<5	75	26	10
HR		11 0337	1.0	400		<5	60	<2	<2
HR		12 0337	0.4	480		10	70	<2	<2
LR		1 0337	1.2	970		10	110	37	178
LR		2 0337	1.1	470		<5	70	<2	157
LR		3 0337	0.6	260		25	81	<2	94
LR		4 0337	0.6	330		<5	59	3	<2
LR		5 0337	NSS	NSS		NSS	NSS	NSS	NSS
LR		6 0337	0.7	360		<5	67	<2	13
LR		6* 0337	0.7	360		NSS	66	<2	18
LR		7 0337	0.9	230		<5	43	29	181
LR		8 0337	0.8	410		<5	60	49	178
LR		9 0337	0.4	690		11	90	95	149
LR		10 0337	<0.2	410		<5	57	40	140
400S		0 0337	1.4	27		<5	15	35	27
400S	100E	0337	NSS	NSS		NSS	NSS	NSS	NSS
400S	200E	0337	2.0	510		<5	75	87	158
400S	300E	0337	0.5	133		<5	19	39	187
400S	400E	0337	NSS	NSS		NSS	NSS	NSS	NSS
400S	400E*	0337	NSS	NSS		NSS	NSS	NSS	NSS
400S	600E	0337	NSS	NSS		NSS	NSS	NSS	NSS
400S	800E	0337	<0.2	200		32	50	23	67
400N	800E	0337	0.4	44		<5	28	18	77
400N	900E	0337	NSS	NSS		NSS	NSS	NSS	NSS
400N	1000E	0337	1.2	82		<5	55	38	82
400N	1100E	0337	NSS	NSS		NSS	NSS	NSS	NSS
400N	1200E	0337	8.0	260		6	480	53	115
test	STD P1	0337	0.2	21			26	52	140

ROCK  
SAMPLES

SOIL  
SAMPLES

PDI GEOCHEM SYSTEM: Data From: SEBC 1G VAD-1 CLAIM

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au PPM	Au1 PPB	Cu PPM	Pb PPM	Zn PPM
	400N	1300E 0337	NSS	NSS		NSS	NSS	NSS	NSS
	400N	1400E 0337	1.5	11		<5	20	67	15
	400N	1500E 0337	1.4	43		NSS	31	75	58
	400N	1600E 0337	0.6	146		<5	44	29	92
	400N	1700E 0337	NSS	NSS		NSS	NSS	NSS	NSS
	400N	1900E 0337	NSS	NSS		NSS	NSS	NSS	NSS
	775S	75W 0337	1.0	820		<5	36	31	47
	775S	100W 0337	0.5	1320		18	72	33	40
	775S	100W* 0337	0.6	1360		NSS	92	29	40
	775S	125W 0337	0.6	1050		12	94	13	40
	775S	150W 0337	0.8	260		<5	33	26	19
	800E	0 0337	0.4	57		10	30	49	74
	800E	100S 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800E	200S 0337	1.0	96		<5	65	32	48
	800E	100N 0337	0.6	62		NSS	21	✓104	66
	800E	200N 0337	0.7	39		<5	10	41	18
	800E	300N 0337	0.8	36		NSS	18	24	32
	800S	0 0337	1.5	590		NSS	56	56	78
	800S	0* 0337	1.7	610		NSS	61	54	81
	800S	50W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	100W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	200W 0337	1.5	4890		NSS	62	21	78
	800S	300W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	400W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	500W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	600W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	800S	700W 0337	0.2	192		<5	21	20	63
	900S	200W 0337	2.5	990		24	79	17	136
test	STD P1	0337	0.3	14			25	52	140
	900S	210W 0337	0.8	950		30	121	26	75
	900S	285W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	900S	300W 0337	1.9	1090		6	101	✓200	460
	1000S	175W 0337	0.6	860		✓150	131	✓166	93
	1000S	250W 0337	1.3	1900		✓45	63	✓194	540
	1100S	125W 0337	0.4	380		10	91	17	370
	1100S	135W 0337	683.9	1890		✓1418	960	✓25160	6340
	1100S	200W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1100S	215W 0337	18.7	1780		✓60	380	✓3090	680
	1100S	215W* 0337	14.8	1720		✓63	370	2714	660
	1200S	85W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	90W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	100WA 0337	23	0.28%		✓70	176	✓1120	0.29%
	1200S	100WB 0337	15	1820		60	148	700	1460
	1200S	110W 0337	113	0.34%		✓470	430	✓9900	3020
	1200S	115W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	120W 0337	0.7	270		20	74	41	106
	1200S	150WA 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	150WB 0337	0.9	330		<5	88	36	127
	1200S	150WB* 0337	1.0	340		NSS	86	33	128
	1200S	200WA 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	200WB 0337	1.3	300		40	30	25	54
	1200S	225W 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	50E 0337	1.0	920		<5	97	✓110	230
	1200S	100E 0337	0.2	1260		6	44	50	48
	1200S	150E 0337	NSS	NSS		NSS	NSS	NSS	NSS
	1200S	200E 0337	1.0	230		<5	33	75	161
	1200S	250E 0337	<0.2	410		<5	63	81	133

4605

PDI GEOCHEM SYSTEM: Data From: SEBC 1G VAD-1 CLAIM

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au PPM	Au1 PPB	Cu PPM	Pb PPM	Zn PPM	
test	1200S	300E	0337	<0.2	77		<5	45	26	71
	STD P1		0337	0.2	25			26	56	150
	1250S	80W	0337	4.0	1680		15	132	60	166
	1250S	90W	0337	1.6	650		<5	75	60	153
	1250S	95W	0337	0.6	700		15	82	41	92
	1250S	100W	0337	0.6	560		<5	57	81	162
	1250S	105W	0337	15	0.33%		✓390	430	✓630	1040
	1250S	110W	0337	1.3	210		<5	21	27	59
	1250S	120W	0337	1.2	145		<5	16	22	55
	1250S	130W	0337	1.1	45		<5	11	12	37
	1250S	140W	0337	1.3	530		5	65	37	169
	1250S	140W*	0337	1.4	540		<5	69	38	172
	1300S	50W	0337	1.1	320		<5	45	26	157
	1300S	75W	0337	1.3	2350		<5	71	144	340
	1300S	90W	0337	0.9	1590		35	115	32	152
	1300S	95W	0337	2.3	4020		✓595	192	23	163
	1300S	100W	0337	24.4	3410		✓356	770	✓730	730
	1300S	105W	0337	5.5	2200		32	440	55	210
	1300S	110W	0337	1.4	820		<5	72	24	71
	1300S	115W	0337	1.8	760		14	114	52	58
	1300S	120W	0337	0.3	380		<5	60	21	79
	1300S	120W*	0337	0.3	380		<5	61	21	77
	1300S	125W	0337	0.5	117		<5	22	22	41
	1300S	130W	0337	2.0	240		<5	37	81	62
	1300S	150W	0337	0.5	680		5	45	32	98
	1350S	0	0337	7.3	350		<5	23	✓181	174
	1350S	10W	0337	0.8	420		<5	42	26	167
1350S	20W	0337	2.5	1030		<5	95	✓128	410	
1350S	30W	0337	3.9	320		<5	48	91	105	
1350S	40W	0337	1.2	270		<5	42	63	196	
1350S	50W	0337	3.7	73		<5	25	60	85	
test	STD P1		0337	0.2	17			26	56	158
	1350S	60W	0337	5.0	62		<5	18	23	89
	1350S	70W	0337	1.5	166		<5	21	23	68
	1350S	80W	0337	0.3	<2		<5	5	<2	20
	1350S	90W	0337	3.4	203		<5	19	8	59
	1350S	100W	0337	<0.2	470		<5	32	9	67
	1350S	110W	0337	0.8	40		<5	8	<2	34
	1350S	120W	0337	0.4	410		<5	40	4	59
	1350S	130W	0337	1.6	300		<5	26	22	43
	1350S	140W	0337	1.3	1370		✓110	119	25	49
	1350S	140W*	0337	1.1	1390		NSS	130	27	45
	1350S	150W	0337	0.6	650		10	55	25	73
	1450S	0	0337	NSS	NSS		NSS	NSS	NSS	NSS
	1450S	25W	0337	0.8	190		<5	23	34	97
	1450S	50W	0337	0.4	310		<5	51	36	115
	1450S	75W	0337	0.6	178		<5	21	64	56
	1450S	100W	0337	0.3	117		<5	22	37	48
	1450S	125W	0337	<0.2	350		<5	30	45	93
	1450S	150W	0337	1.1	560		<5	29	✓108	92
	1450S	25E	0337	0.5	550		<5	47	62	137
	1450S	25E*	0337	0.4	540		NSS	47	59	137
	1450S	50E	0337	1.6	125		<5	21	40	64
	1450S	75E	0337	<0.2	115		<5	21	20	38
	1450S	100E	0337	NSS	NSS		NSS	NSS	NSS	NSS
	1450S	125E	0337	4.6	360		<5	41	✓780	295
	1450S	150E	0337	1.5	78		<5	18	47	110

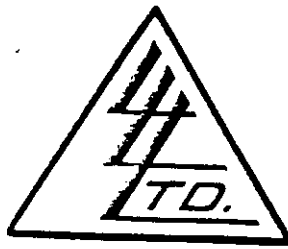
PDI GEOCHEM SYSTEM: Data From: SEBC 1G VAD-1 CLAIM

GRID	SAMPLE	PROJECT	Ag PPM	As PPM	Au PPM	Au1 PPB	Cu PPM	Pb PPM	Zn PPM
	1450S	150E*	0337	1.4	75	NSS	17	38	116
test	STD AU7	0337				300			
test	STD AU7	0337				325			
test	STD AU7	0337				500			
test	STD AU7	0337				335			
test	STD PB-ZN	0337							0.55%

END OF LISTING - 177 RECORDS PRINTED Run on: 90:06:19 at 7:55:20



To: JAYSION INVESTMENTS LTD.,  
 539 - 47th Avenue S.W.,  
 Calgary, Alberta T2J 1C5



File No. 31446  
 Date July 12, 1988  
 Samples Rock

ATTN: Jim Adamson

Certificate of  
**ASSAY** of  
**LORING LABORATORIES LTD.**

Page # 2

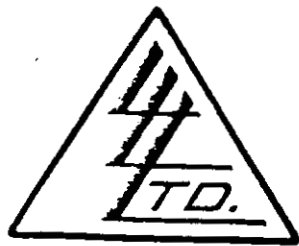
SAMPLE No.	OZ./TON GOLD	OZ./TON SILVER	% Pb
) <u>"Rock Samples"</u> <u>"Assay Analysis"</u>			
VAD 1 Below White Rock	S .012	-	.06
VAD 2 Large Sample No.	S -	13.48	8.00
<p><b>I Hereby Certify</b> THAT THE ABOVE RESULTS ARE THOSE          ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .</p>			

Rejects Retained one month.  
 Pulp Retained one month  
 unless specific arrangements  
 made in advance.

*Jim Adamson*  
 Assayer

To: JAYSLON INVESTMENT LTD.  
 539 - 47 Avenue S.W.  
 Calgary, Alberta  
 T2J 1C5  
 Attn: Jim Adamson

File No. 31446 - 1  
 Date August 8, 1988  
 Samples Rock



*Certificate of*  
**ASSAY**  
**LORING LABORATORIES LTD.**

SAMPLE No.	OZ./TON Silver	% Lead
"Assay Analysis"  VAD 3 NICK - 1 SS	45.37	59.69

**I** *Hereby Certify* THAT THE ABOVE RESULTS ARE THOSE  
 ASSAYS MADE BY ME UPON THE HEREIN DESCRIBED SAMPLES . . . .

Rejects Retained one month.  
 Pulps Retained one month  
 unless specific arrangements  
 made in advance.

*David B.*  
 Assayer

539 - 47th Avenue S.W.,  
Calgary, Alberta  
T2J 1C5



File No. 31919  
Date October 31, 1988  
Samples Rock

# Certificate of Assay LORING LABORATORIES LTD.

Page # 1

SAMPLE NO.

OZ./TON  
GOLD

%  
Pb

"Rock Samples"  
"Assay Analysis"

VAD 4S 1300S + 100W	.008	-
1200S + 100W	-	.14
1200S + 110W	-	.88

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

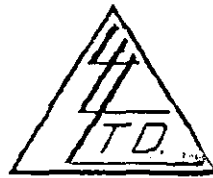
Rejects retained one month.  
If specific arrangements  
are made in advance.

  
Assayer

539 - 47th Avenue S.W.,

Calgary, Alberta

T2J 1C5



Date November 22, 1988

Samples Soil

# Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

%  
Pb

## "Assay Analysis"

1200S-110W

VAD 51	51 Ft from West Side of Nick's Vein	S	.18
VAD 6	5 Ft from West Side of Nick's Vein	S	1.12
VAD 77	77 Ft from West Side of Nick's Vein	S	.07
VAD 7	7 Ft from West Side of Nick's Vein	S	.07
VAD 9	12 Ft from West Side of Nick's Vein	S	.03
VAD 10	21 Ft from West Side of Nick's Vein	S	.02
VAD 11	1300S-25W (A) Extension of Nick's Vein	S	.01
VAD 12	1300S-25W (B) Extension of Nick's Vein	S	.01

*Positive Nickel Zone*

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.  
Alpha retained one month  
Unless specific arrangements  
are made in advance.

*Harry Swaling*  
Assayer

To: MR. J.S. ADAMSON,  
539 - 47th Avenue S.W.,  
Calgary, Alberta  
T2J 1C5

File No. 33007  
Date December 6, 1989  
Samples Rock



## Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON  
GOLD

OZ./TON  
SILVER

"Assay Analysis"

VAD, 13 1 Rock 5

1.766

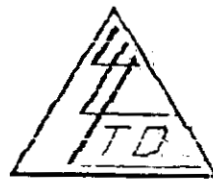
12.13

I ~~Hereby Certify~~ that the above results are those  
assays made by me upon the herein described samples....

...cts retained one month.  
...ps retained one month  
unless specific arrangements  
are made in advance.

  
Assayer

539 - 47th Avenue S.W.,  
Calgary, Alberta T2J 1G5



File No. 32304  
Date December 21, 1988  
Samples Rock

ATTN: J.S. Adamson

# Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON  
GOLD

"Assay Analysis"

VAD 14 # 1 ROCK S .035

SAMPLE FROM 120S - 100W

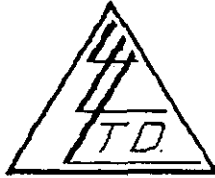
I Hereby Certify that the above results are those  
assays made by me upon the herein described samples....

Subjects retained one month.  
Assays retained one month  
unless specific arrangements  
are made in advance.

Assayer

To: MR. J.S. ADAMSON,  
539 - 47th Avenue S.W.,  
Calgary, Alberta  
T 1C5

File No. 32932  
Date November 21, 1989  
Samples Rock



## Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD	OZ./TON SILVER	% Pb	% Zn
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"Assay Analysis"

VADIS # 1 S	.889	10.07	25.05	8.53
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I Hereby Certify that the above results are those  
assays made by me upon the herein described samples....

Results retained one month.  
Pulps retained one month  
unless specific arrangements  
are made in advance.

  
Assayer

To: MR. JIM ADAMSON,  
539 - 47th Avenue S.W.,  
Calgary, Alberta  
T2J 1G5

File No. 33574  
Date August 8, 1990  
Samples Rock



## Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

OZ./TON  
GOLD


OZ./TON  
SILVER

"Assay Analysis"

1100S+215W	0.190	106.6
1100S+175W East Trench	0.014	-

I Hereby Certify that the above results are those  
assays made by me upon the herein described samples....

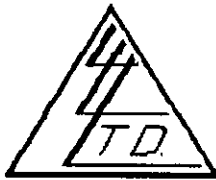
Rejects retained one month.  
Pulps retained one month  
unless specific arrangements  
are made in advance.

  
Assayer



To: MR. JIM ADAMSON,  
539 - 47th Avenue S.W.,  
Calgary, Alberta  
TPJ 1C5  
\_\_\_\_\_  
\_\_\_\_\_

File No. 33877  
Date November 28, 1990  
Samples Rock



# Certificate of Assay LORING LABORATORIES LTD.

SAMPLE NO.

PPB  
Au

## Geochemical Analysis

1 Rock

10

I Hereby Certify that the above results are those  
assays made by me upon the herein described samples....

jects retained one month.  
Pulps retained one month  
unless specific arrangements  
are made in advance.

  
Assayer

