

84-#214 - 12088  
4

DIAMOND DRILLING  
and  
GEOPHYSICAL REPORT  
on the  
BELL CLAIM  
OLALLA, B. C.

OSOYOOS MINING DIVISION

NTS 82E/4W, 5W **GEOLOGICAL BRANCH**  
**ASSESSMENT REPORT**

Prepared for  
BOISE CREEK RESOURCES LTD.

**12,088**

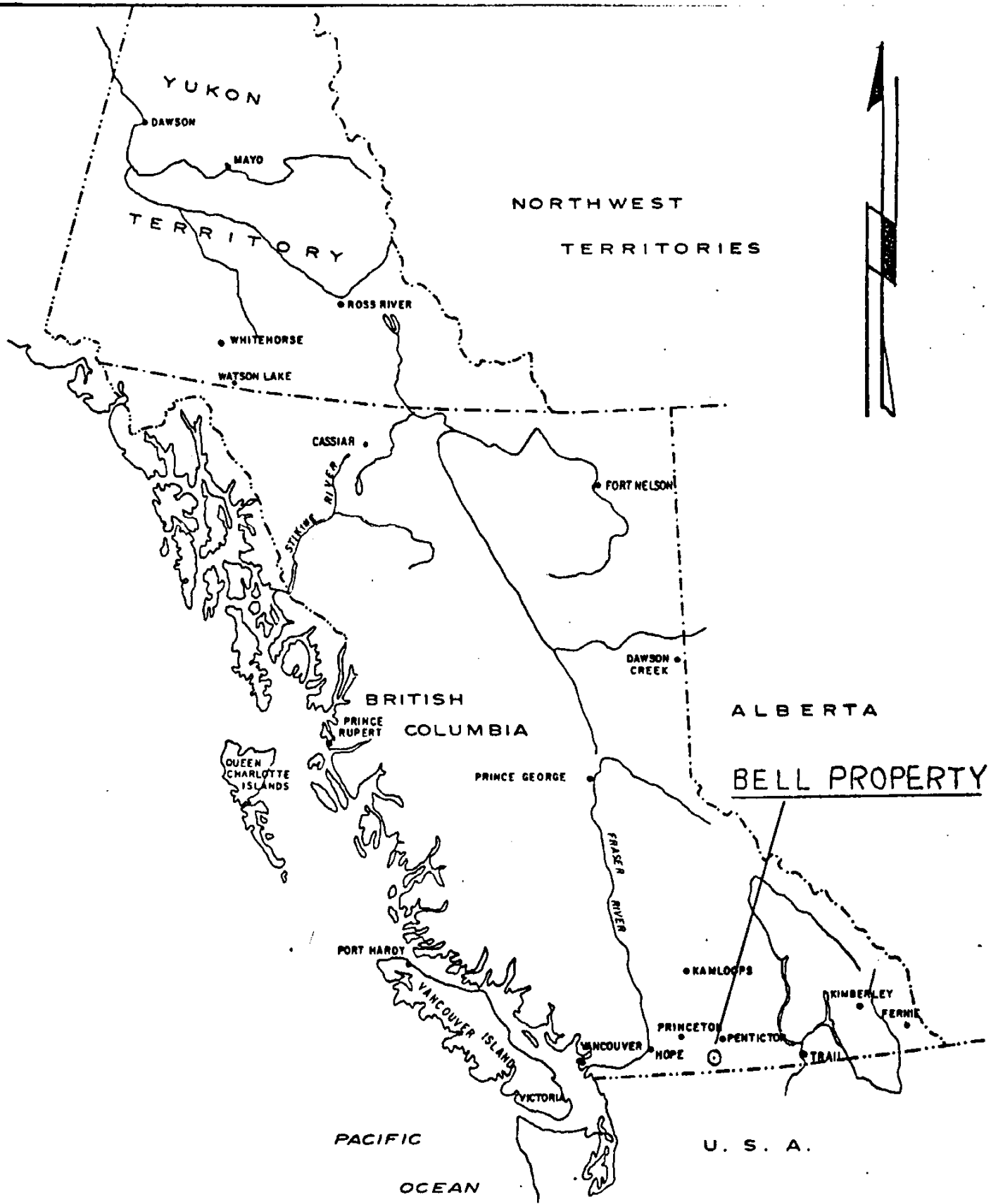
Claim owned by  
GRANT CROOKER


latitude 49° 15'

longitude 119° 49'

April 12, 1984

Robert Holland, BSc  
geologist



LOCATION MAP	
VANCOUVER	BRITISH COLUMBIA
<u>BOISE CREEK RESOURCES LTD.</u>	
<u>BELL PROPERTY</u>	
SCALE 1:12,672,000	
	
NTS.	DATE APR. 1983 FIG. No. 1

1" = 250 MILES

*[Handwritten signature]*

## TABLE OF CONTENTS

	page	
Summary and Conclusions	1	
Location and Access	3	
Physiography	3	
Property Status	4	
History	4	
Geology and Mineralization	6	
Diamond Drilling	9	
Geochemistry	10	
VLF Electromagnetic Survey	12	
Statement of Costs	15	
Statement of Qualifications	16	
Appendices		
Appendix A	Diamond Drill Logs	
Appendix B	Geochemical Results	
Appendix C	Geophysical Computer Analysis on VLF Electromagnetic Survey	
Figures		
Figure 1	Location Map	frontispiece
Figure 2	Claim Map	5
Figure 3	Geology and Work Location Map	7
Figure 4	Drill Hole Location Map	11

### Summary and Conclusions

Beginning in December 1983, a two phase exploration program was conducted on the Bell claim, located near Olalla, B.C., on behalf of Boise Creek Resources Ltd. The first phase consisted of a VLF electromagnetic survey over known mineral occurrences and was followed up in March 1984 by a limited X-ray diamond drill program designed to test for future larger scale drilling targets.

A total of four line kilometers of E.M. was run producing three conductors, one of which was deemed significant. Field examination of this conductor was not encouraging so follow-up drilling was concentrated on known mineral occurrences. Two holes were collared; however, problems were encountered with hard, broken ground and very poor recovery. Only 19.76 meters were drilled before the program was abandoned. No sulfides were noted in core recovered; however, one core and five sludge samples were collected and analysed for copper-silver-gold. A grab sample of pyrite mineralization from an old open cut was also analysed. The sludge sample from hole 84-1 ran 15.5 ppm silver over 5.80 meters, while hole 84-2 assayed 1258 ppm copper in sludge over 1.55 meters. No other significant geochemical results were obtained.

The following observations and conclusions are based on this and previous work in the area:

- 1) Any future drilling should be done with a larger drill rig using at least NQ size rods, in order to get reasonable core recovery.
- 2) The E.M. grid lines were run east-west, parallel to the trend of the pyroxenite-sedimentary contact. This may in part explain the lack of geophysical response over the mineral zones.
- 3) Extensive outcroppings of unmineralized cherty argillite in the vicinity of the one favorable E.M. conductor suggests it is not a result of significant mineralization.
- 4) Exposed mineralization in the vicinity of the Roadside showings are small, discontinuous skarn zones probably resulting from thermal metamorphism of minor, thin, highly deformed limy beds during intrusion of the Olalla Stock pyroxenite.
- 5) Mineralization within the skarn zones appears erratic with values occurring mainly as copper with only minor gold-silver. Tonnage and grade potential are therefore limited.
- 6) Mineralization at the Hillside showing was not examined but appears to be similar to the Roadside.
- 7) Gold-silver prospects in the immediate vicinity of the Bell claim appear to be associated with

shear or fault zones. Appreciable gold values have been reported on at least two of these prospects, the Shepherd-Sunrise and the Something Good, both of which appear to strike onto the Bell claim. Future work should be aimed at assessing and tracing these structures by means of geological, geophysical and geochemical surveys followed up by bulldozer or backhoe trenching.

#### Location and Access

The Bell claim is located about 250 kilometers east of Vancouver, B.C. (figure 1), and 4 kilometers north of the town of Keremeos, B.C., on the south edge of the village of Olalla. The property straddles Keremeos Creek and extends east-west up both sides of the valley. Elevations range from 600 to 1500 meters.

Access is via Highway 3A which bisects the claim and by several rough roads which extend up both sides of the valley.

#### Physiography

The terrain is generally moderate to steep with over 1000 meters relief in the area. The valley bottom is flat and relatively narrow, con-

sisting of irrigated pasture land and orchards. The lower slopes are generally dry and vegetated with sagebrush, bunch grass, cactus and sparsely timbered by fir. Upper regions are generally more heavily timbered.

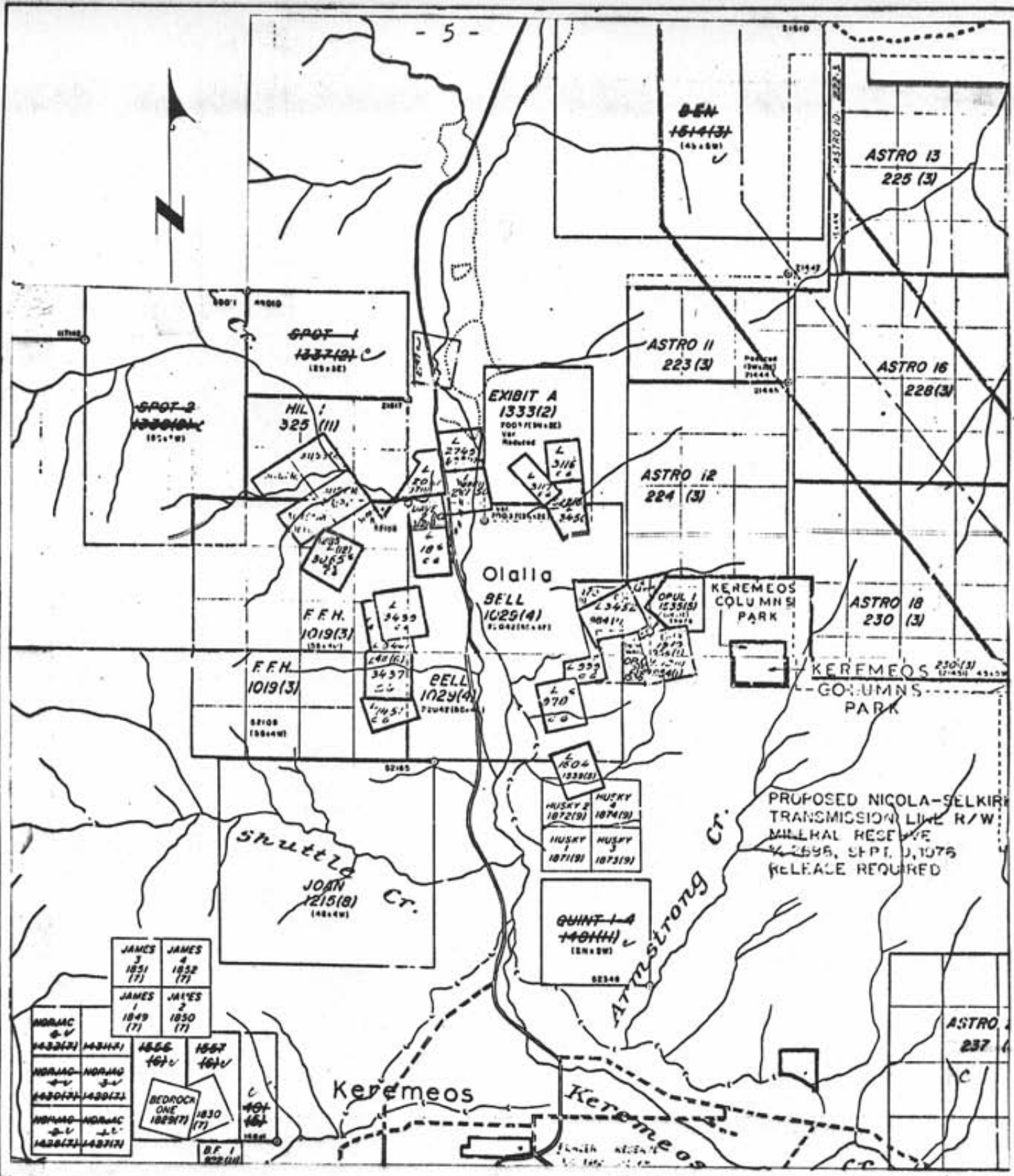
Water is generally in short supply. Some small springs are reported but were not located. Water for drilling must be obtained from local residents' wells or from Keremeos Creek.

#### Property Status

The Bell property consists of the Bell claim of 20 units - Record No. 1029 - Expiry Date April 24, 1984 - which is owned by Grant Crooker of Keremeos, B.C. (figure 2). It covers a number of crown granted and mineral claims which are not included in the property. The claim is currently under an option agreement with Boise Creek Resources Ltd. of Vancouver, B.C., who are the operators.

#### History

Gold-silver-copper exploration activity in the Olalla area began in the late 1880's; however there is little published record of this work.



JAMES 3 1851 (7)	JAMES 4 1852 (7)
JAMES 1 1849 (7)	JAMES 2 1850 (7)
NORJAC 6 1432(2)	NORJAC 7 1433(2)
NORJAC 8 1434(2)	NORJAC 9 1435(2)
NORJAC 10 1436(2)	NORJAC 11 1437(2)
1856 161	1857 161
BEDROCK ONE 1829(7)	1830 (7)



**BOISE CREEK RESOURCES LTD.**

**BELL CLAIM**

**CLAIM MAP**

Scale 1:50,000 Date Apr. 1988 NTS 284/4

Revised \_\_\_\_\_ By R.H. Fig 2



Work has continued sporadically since this time with the main emphasis on the Golconda, Shepherd-Sunrise, Something Good, and Bullion properties which border and surround the Bell claim (figure 3).

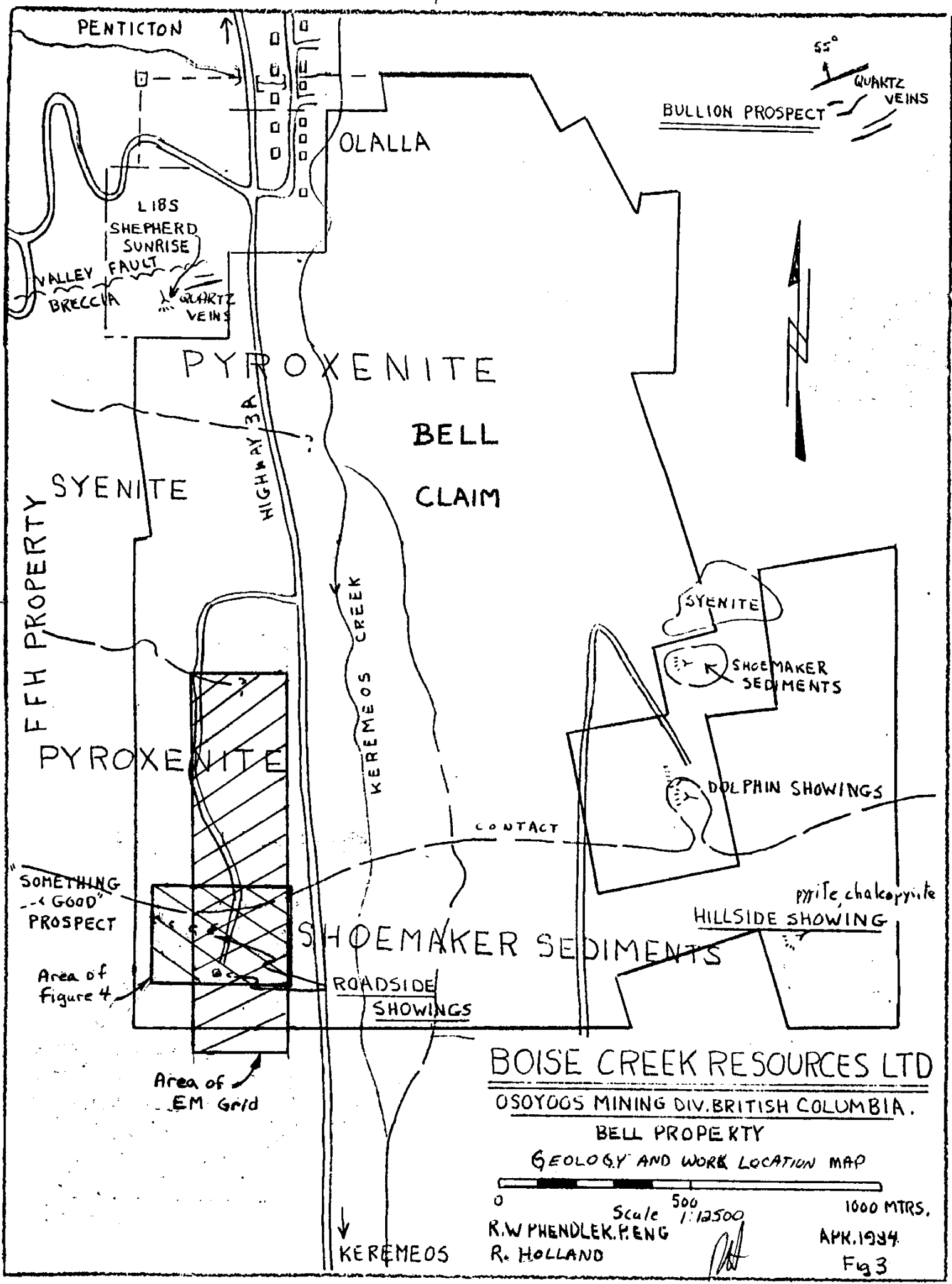
Three hundred tons of ore grading 0.53 oz/ton Au and 0.45 oz/ton Ag were reportedly shipped from the Shepherd-Sunrise from 1946 to 1948. A further 3100 tons grading 0.84 oz/ton Au and 1.99 oz/ton Ag were blocked out during 1961-3.

Two adits were driven on the Something Good prospect with one intersecting a 33.5 meters long vein averaging 0.42 oz/ton Au across 0.57 meters.

Within the Bell claim, a forty foot shaft and numerous open cuts were developed prior to 1899 on the Roadside showings in the southwest corner of the property. Copper values to \$7.00 per ton were reported. On the Hillside showing in the southeast part of the claims a short adit and several open cuts were established on a copper showing.

#### Geology and Mineralization

The area in which the Bell property is located is underlain by the southwest end of the Olalla stock in contact with sedimentary rocks of the Shoemaker formation of Triassic(?) age. The stock



**BOISE CREEK RESOURCES LTD**  
 OSOYOGS MINING DIV. BRITISH COLUMBIA.  
 BELL PROPERTY  
 GEOLOGY AND WORK LOCATION MAP

0 500 1000 MTRS.  
 Scale 1:12500  
 R.W PHENDLER, P. ENG  
 R. HOLLAND  
 APR. 1984  
 Fig 3

is a multi-facies intrusion composed of pyroxenite, monzonite, syenodiorite and augite syenite. The Shoemaker formation is predominantly massive black to grey hornfels derived from cherty argillites with lesser greywacke, conglomerate, quartzites and minor limestone, which is often metamorphosed to skarn or marble close to intrusive contact. The contact is generally east-west and crosses the southern part of the Bell claim.

The northern part of the Bell claim is largely underlain by the Olalla stock and recent alluvial and glacial cover (valley bottom). The Valley Fault, which appears to be related to mineralization on the Shepherd-Sunrise, is postulated to extend across the north end of the property, and is also on strike with the Bullion showing to the northeast.

Mineralization at the Roadside showings consists of a number of small erratic sulfide zones concentrated within the Shoemaker formation close to the contact with the Olalla stock. The stock is predominantly green weathering chloritic augite pyroxenite, while the sediments are largely black to dark green to grey chert and cherty argillites. Sulfides are mainly pyrite with some

chalcopyrite and malachite occurring in small lensoidal calcareous seams which are often very strongly oxidized. The gangue is generally recrystallized white calcite commonly rimmed or containing skarn minerals such as garnet (grossularite?), diopside, epidote and chlorite. Previous sampling indicates values are erratic and mainly copper with low gold and silver.

The Hillside showing was not visited but appears to be similar in nature to the Roadside showings.

#### Diamond Drilling

During March 1984, a diamond drill program was initiated in the vicinity of the Roadside showing, to test, by a number of short holes, the extent and continuity of mineralization to depth and to establish targets for later deeper and more extensive drill programs. The drill used was a small X-ray drill, belonging to Kaban Development of Vancouver. Core size was XRT (about 1.5 cm).

Two drill holes were attempted, the first (84-1) of which was located at 3+15N 0+74E with respect to the existing property grid, and was

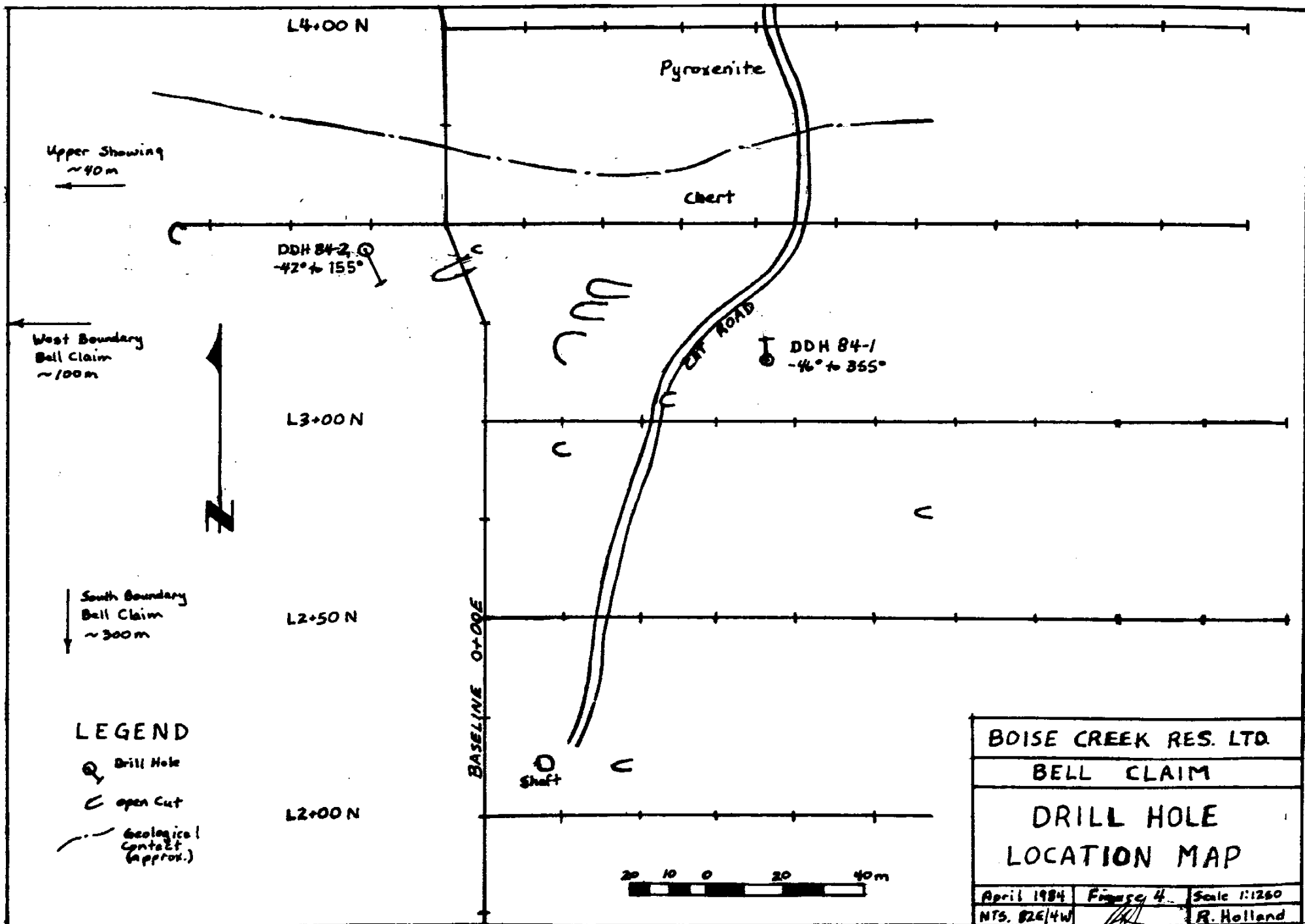
drilled 7.3 meters (24.0 feet) at  $-46^{\circ}$  towards  $355^{\circ}$ . No solid bedrock was encountered and no core recovered. A sludge sample was recovered which consisted of mainly green sand (weathered pyroxenite?). The hole was abandoned due to caving (see figure 4 for drill hole locations).

The second hole (84-2) was collared at 3+44N 0+21W and drilled 12.3 meters (40.5 feet) at  $-42^{\circ}$  towards  $155^{\circ}$ . Bedrock was encountered at 1.0 meter, but was strongly broken, fractured and very hard. Core recovery was less than 7% as pebbles of chert or silicified sediments. No significant sulfides were noted. Sludge samples were collected to 8.44 meters depth where water return was lost. This hole was shut down due to recovery problems and difficulty advancing bit.

The program was terminated at this point because of difficulties in drilling and lack of appreciable information from holes drilled. Drill logs are included in Appendix A of this report. Core recovered was sent in, whole, for analysis.

### Geochemistry

Five sludge samples from holes 84-1 and 84-2, and one core sample from hole 84-2 were



sent to Acme Analytical Labs for analysis by standard ICP geochemical methods for copper and silver and by standard atomic absorption methods for gold. A grab sample containing abundant coarse pyrite, which was collected from an open cut approximately 120 meters uphill at 250° from drill hole 84-2, was also analysed. Results are reported in parts per million (ppm) for copper and silver and parts per billion (ppb) for gold, and are tabulated in Appendix B.

No significant gold values were encountered in any of the samples. Sludge from hole 84-1 contained 15.5 ppm silver (approximately 1/2 oz/ton) from 1.52 to 7.32m. The best copper intersection was in sludge from hole 84-2, interval 2.26-3.81m (7.4-12.5 feet), which returned 1258 ppm (0.12%) copper. No other significant values were received.

#### VLF Electromagnetic Survey

Between December 20, 1983 and January, 1984, a VLF electromagnetic (E.M.) survey was conducted over four line kilometers of compassed and picketed grid established for that purpose. The grid covers an area 1000 meters north by 250

meters east located west of Highway 3A in the southwest part of the Bell claim, and includes the Roadside mineral occurrences (figure 3). Grid lines were run east at 50 meter spacings from a 1000 meter long base line, with readings taken at 20 meter station intervals along each line. All work and data treatment was carried out by Candell Consulting Corp. under the supervision of T. Rolston. The instrumentation used was a Sabre model 27 VLF-EM receiver tuned to the Seattle, Wash. transmitter on a frequency of 24.8 Khz. This station transmission was used as its orientation was favorable with geological structures on the property and because it has very good signal strength. Measurements taken were variation in field strength and the dip angle.

Raw E.M. and grid data was keyed into a computer and treated with the Fraser filter technique at 20 meter and 10 meter computer interpolation. Results were computer plotted and contoured at  $5^{\circ}$  intervals, as all readings over  $5^{\circ}$  are considered anomalous. Data was further plotted in graphic profile at 10 and 20 meter comparison, and 20 meter and field strength comparison. The 10 and 20 meter comparison indicates the dip



of the conductors, which in this case are all vertical and near surface. The 20 meter field strength comparison indicates worthwhile conductors where anomalies are coincidental. Raw and filtered data as well as all graphs and grid plots are contained in Appendix C. Map 1 shows raw dip angles, Map 2, field strength, Map 3, 20 meter filtered dip angles, Map 4, 10 and 20 meter profiles, Maps 5 and 6, 20 meter and field strength profiles.

From these analyses, three significant conductors were obtained (Map 3). The target conductor on line 1+00N 0+30E was thought to have the best chance of being mineralized due to its geological setting in the Shoemaker formation. The anomalies, on lines 8+00N and 8+50N, on the other hand, appear to be caused by pyroxenite.

During March, 1984, the anomaly on line 1+00N was examined in the field by R. Holland. The anomaly occurs in an area underlain by extensive outcroppings of cherty argillite, and is much further away from the pyroxenite than known mineral occurrences. No mineralization or significantly rusty rock was noted in outcrop or talis, and, as the anomaly appears to be near surface, it is felt that it is not likely to be caused by significant mineralization.

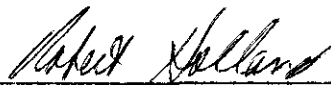
Statement of Costs

Diamond Drilling	64.5 feet @ \$22.00/ft	\$1,419.00	
	11 feet casing @ \$22.00/ft	242.00	
	mobilization	1,500.00	\$3,261.00
Geochemical Analysis	7 samples @ \$9.68/sample		67.75
	Analysed for Cu, Au, Ag		
Geophysical Survey (VLF EM)			
	2 men for 7 days @ \$100/manday	1,400.00	
	Dec. 16 - 22, 1983		
	Equipment rental (EM, truck) 4 days @		
	\$250.00	1,000.00	
	Report preparation and data treatment	450.00	
	Room and Board	400.00	3,250.00
Report preparation (assessment)			
	R. Holland - geologist - 2½ days @		
	\$150.00/day	375.00	
	(April 11, 12, 13)		
	Typing 6 hrs @ \$9.00/hour	54.00	
	Copying and miscellaneous	10.00	439.00
Supervisor (field work)			
	R. Holland - geologist - 10 days @		
	\$150.00/day	1,500.00	
	(March 15, 22 - 31)		
	Expenses - (Meals, supplies, room, fuel)	490.52	<u>1,990.52</u>
	TOTAL		<u><u>\$9,008.27</u></u>

STATEMENT OF QUALIFICATIONS

I, Robert Holland, of 13451 - 112A Avenue, in the Municipality of Surrey, in the Province of British Columbia, hereby certify that:

- 1) I graduated from the University of British Columbia in 1976 with a Bachelor of Science degree in geology.
- 2) I have practiced my profession continually as an exploration and consulting geologist since 1976 and have worked in mining exploration in British Columbia and the Yukon Territory since 1972.
- 3) I have no interest, directly or indirectly, in the Bell claim, nor do I own, directly or indirectly, any shares in Boise Creek Resources Ltd., nor do I expect to.



---

Robert Holland, BSc  
geologist

Appendix A

DIAMOND DRILL LOGS



DRILL HOLE RECORD

HOLE NUMBER 84-2

PAGE: 1 of 1

PROPERTY Bell Claim

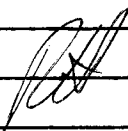
DISTRICT Olalla, B.C.

COMMENCED Mar. 27/84 COMPLETED Mar. 30/84

COORDINATES 3+44N 0+21W

CORE SIZE XRT TRUE BRG 155° COLLAR DIP -42° LENGTH 12.44m

OBJECTIVES Test mineralized zone exposed in open cut to east LOGGED BY R. Holland

FOOTAGE	DESCRIPTION
0-0.91m	Overburden
0.91-12.44m	<p>Chert - less than 7% recovery of mainly aphanitic pale bluish-grey to whitish pebbles consisting of silica (chert or quartz) with minor white sericite and locally abundant pale greenish sericite stringers and fine rounded white specks (possibly altered feldspar phenocrysts?) to 1mm. Very minor disseminated fine pyrite. Rock possibly very intensely silicified volcanic.</p> <p>5.64-7.86m - pebbles largely fine-grained, dark greenish (chlorite ± epidote) possibly indicating a zone of skarn. Recovery less than 5%.</p>
12.44m	End of hole - stopped due to poor recovery, difficult drilling conditions, and hard, shattered nature of rock
	

Appendix B

GEOCHEMICAL RESULTS

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
PHONE 253-3158 TELEX 04-53124

DATE RECEIVED: APR 2 1984

DATE REPORT MAILED: *Apr. 6/84...*

### GEOCHEMICAL ICP ANALYSIS

A .500 GRAM OF SAMPLE DIGESTED WITH 3ML OF 3-1-3 OF HCL-HNO3-H2O AT 95 DEG. OF WATER BATH FOR ONE HOUR.  
DILUTED TO 10 ML WITH WATER. PARTIAL LEACHED FOR MN.FE.CA.P.CR.MG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA  
AU DETECTION LIMIT 3 PPM SAMPLE TYPE: SLUDGE AU# BY 10 GRAM SAMPLE AA

ASSAYER: *D. Toyne* DEAN TOYE. CERTIFIED B.C. ASSAYER

BOISE CREEK FILE # 84-0473

PAGE 1

SAMPLE#	CU PPM	AG PPM	AU* PPB
DDH84-1 5-24.	55	15.5	5
DDH84-2 7.4-12.5	1258	2.0	5
DDH84-2 12.5-17	354	1.9	5
DDH84-2 17-21.2	440	2.1	5
DDH84-2 21.2-27.7	240	1.2	5
DDH84-2 0-40.5-CORE	360	1.6	5
UPPER SHOWING-ROCK	33	.1	5
STD A-1/AU 0.5	30	.3	480



Appendix C

GEOPHYSICAL COMPUTER ANALYSIS  
ON  
GROUND VLF-ELECTROMAGNETIC  
SURVEY

T. ROLSTON

CANDELL CONSULTING CORP.

January 20, 1984

**BOISIE CREEK RESOURCES LTD.**

**BELL CLAIM** record # 1029(4), Olalla area,

Osoyoos mining division, B.C.

NTS 82E/5W, 82E/4W

49 deg.15' Lat. 119 deg.49' Long.

**GEOPHYSICAL COMPUTER ANALYSIS ON GROUND VLF-ELECTROMAGNETIC  
SURVEY** Dec.20,1983 to Jan.1984

by T.Rolston, CANDELL CONSULTING CORP. Jan.20,1984

### **SURVEY PARAMETERS:**

The survey was conducted over the west portion of the BELL claim, over some known showings and mineralized outcropping. The survey grid was established with 50 metre lines and 20 metre EM stations. The instrumentation used was a Sabre model 27 VLF-EM receiver tuned to Seattle Wash., transmitter on a frequency of 24.8 Khz. This station transmission was used due to its orientation being in line with the geological structure on this property and very good signal strength. The measurements taken on this survey was the variation in the horizontal component of the signal field strength and the dip angle. Both the field strength and dip angle readings were measured and recorded in a field note book.

Because of its electro-magnetic frequency, the VLF-EM can detect conductors caused by electrolyte filling fault or shear zones and porous horizons, graphite, carbonaceous sediments, lithological contacts as well as sulphide bodies.

### **COMPUTER ANALYSIS AND INTERPRETATION:**

1) The EM data and grid data were keyed into the computer from the field notes.

2) These data were treated with the Fraser filter technique at 20 metres and 10 metre computer interpolation. These results were plotted using a computer flat bed plotter and contoured at 5 deg. intervals, as all readings over +5 deg. are considered anomalous. map sheet #3.

3) The data were further plotted in graph profile at 10 metre, 20 metre comparison and 20 metre and field strength comparison. The 10 metre and 20 metre comparison, map sheet #4, results, indicate the dip of the conductor, in this case, all conductors detected are vertical near surface conductors.

The 20 metre and field strength results, indicate worthwhile conductors to investigate, when the anomalies are coincident. map sheet #5 & #6, From these analysis, the target conductor detected on line 1 N., 30E has the best chance of being mineralized due to the geological setting in the SHOEMAKER Formation. The other anomalies on the northern part of the survey area appear to be caused by pyroxinite, line 8 N. and 8+50 N.

The conclusion is that the EM anomaly on line 1 should be further investigated.

respectively submitted,

T. Rolston,  
CANDELL CONSULTING CORP.

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 0 > FILTER < 0 >

STN 20E : -26 -28 -30 -29 -28 -29 -30 -31 -32 -29  
STN 0 : -26

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 1N > FILTER < 0 >

STN 24E : -16 -18 -20 -19 -18 -19 -20 -23 -26 -24  
STN 4E : -22 -24 -26

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 2N > FILTER < 0 >

STN 28E : -16 -19 -22 -22 -22 -23 -24 -23 -22 -21  
STN 8E : -20 -18 -16 -15 -14

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 3N > FILTER < 0 >

STN 36E : -12 -10 -8 -7 -6 -7 -8 -9 -10 -10  
STN 16E : -10 -11 -12 -12 -12 -14 -16 -17 -18

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 4N > FILTER < 0 >

STN 40E : -6 -7 -8 -6 -4 -4 -4 -4 -4 -5  
STN 20E : -6 -6 -6 -5 -4 -4 -4 -4 -4 -5  
STN 0 : -6

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 5N > FILTER < 0 >

STN 40E	:	0	0	0	-1	-2	-1	0	0	0	-1
STN 20E	:	-2	-2	-2	-1	0	0	0	0	0	-1
STN 0	:	-2									

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 6N > FILTER < 0 >

STN 40E	:	-2	-2	-2	-3	-4	-3	-2	-1	0	-2
STN 20E	:	-4	-5	-6	-7	-8	-7	-6	-7	-8	-8
STN 0	:	-8									

DATA FILE < BELLDIP >

~~BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.~~  
~~SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA~~

LINE < 7N > FILTER < 0 >

STN 44E	:	-2	-1	0	-1	-2	-2	-2	-3	-4	-2
STN 24E	:	0	-2	-4	-3	-2	-3	-4	-4	-4	-4
STN 4E	:	-8	-9	-10							

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 8N > FILTER < 0 >

STN 44E	:	0	0	0	0	0	-1	-2	-3	-4	-4
STN 24E	:	-4	-4	-4	-6	-8	-6	-4	-5	-6	-7
STN 4E	:	-8	-6	-4							

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 9N > FILTER < 0 >





DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 18N > FILTER < 0 >

STN 36E	:	0	0	0	1	2	0	-2	-1	0	-1
STN 16E	:	-2	-1	0	-1	-2	-3	-4	-5	-6	

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 19N > FILTER < 0 >

STN 36E	:	-4	-4	-4	-3	-2	-4	-6	-5	-4	0
STN 16E	:	4	-1	-6	-6	-6	-7	-8	-9	-10	

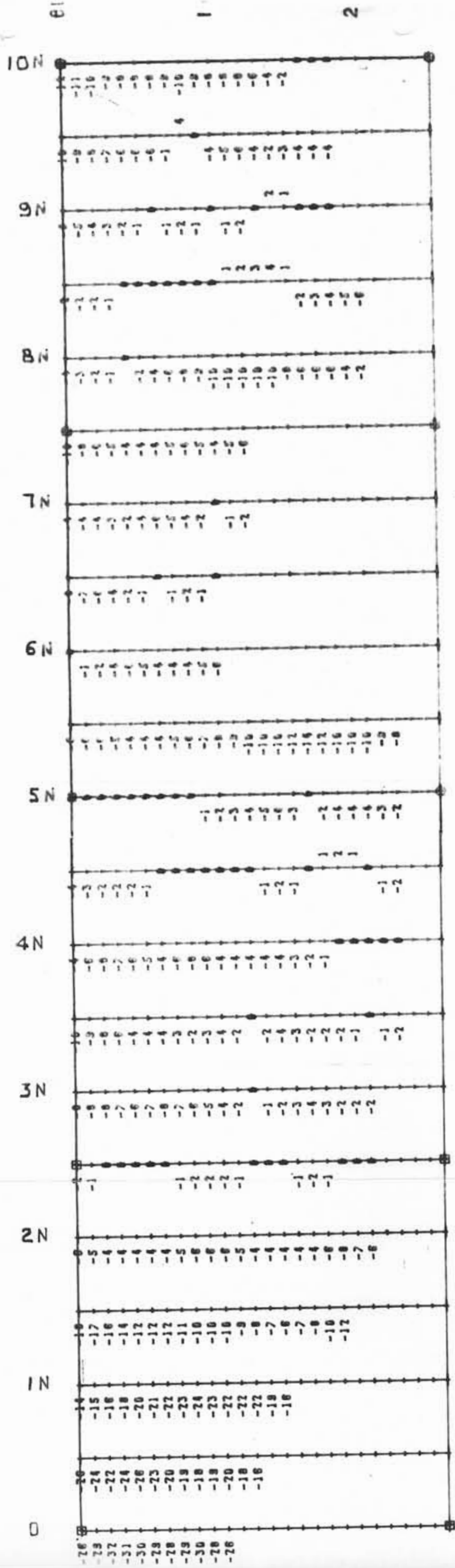
DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 20N > FILTER < 0 >

STN 36E	:	0	0	0	-2	-4	-6	-8	-8	-8	-9
STN 16E	:	-10	-9	-8	-8	-8	-9	-10	-11	-12	





BOISE CREEK RESOURCES LTD.  
 BELL CLAIM  
 350Y00S M.D.  
 KERRHEADS AREA B.C.

VLF-EM SURVEY  
 SEATTLE TRANSMITTER  
 DIP ANGLE-RAW DATA  
 DATE: JAN. 1984  
 X-SCALE = 1 : 2500  
 Y-SCALE = 1 : 2500  
 MAP SHEET # 1

PROBE : DATA FILE < BELLFS >

INDEX HEADER

TYPE	N1	N2	# LINES	STN SPACE	LINE SPACE	NEXT M-SECTOR
RW	0	4*	21	20	100	21

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 0 > FILTER < 0 >

STN 20E	:	42	42	42	41	40	40	40	40	40	41
STN 0	:	42									

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 1N > FILTER < 0 >

STN 44E	:	40	41	42	44	45	45	45	45	45	39
STN 24E	:	32	30	28	27	25	25	25	27	25	29
STN 4E	:	30	34	37							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 2N > FILTER < 0 >

STN 44E	:	40	40	40	41	42	43	44	40	35	37
STN 24E	:	38	40	42	42	42	43	44	43	42	40
STN 4E	:	38	40	42							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 3N > FILTER < 0 >

STN 36E	:	64	66	68	68	68	67	66	65	64	62
STN 16E	:	60	57	54	53	52	51	50	50	50	

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 4N >					FILTER < 0 >				
STN 40E	:	60	62	64	64	64	62	60	59	58	62
STN 20E	:	65	69	72	75	78	77	76	74	72	74
STN 0	:	76									

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 5N >					FILTER < 0 >				
STN 40E	:	86	85	84	83	82	83	84	84	84	84
STN 20E	:	84	83	82	80	78	77	75	72	68	67
STN 0	:	65									

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

---

		LINE < 6N >					FILTER < 0 >				
STN 40E	:	85	87	88	89	90	93	95	94	92	93
STN 20E	:	94	95	96	98	100	97	94	95	96	95
STN 0	:	94									

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 7N >					FILTER < 0 >				
STN 44E	:	40	41	42	44	45	45	45	45	45	45
STN 24E	:	45	44	42	44	46	47	48	50	52	54
STN 4E	:	55	58	60							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 8N >					FILTER < 0 >				
STN 44E	:	40	40	40	41	42	43	44	45	46	46
STN 24E	:	46	46	46	46	46	47	48	49	50	51

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 9N >				FILTER < 0 >					
STN 44E	:	55	55	55	58	60	59	58	55	52	54
STN 24E	:	55	55	55	59	62	61	60	60	60	58
STN 4E	:	55	55	55							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 10N >				FILTER < 0 >					
STN 44E	:	62	57	52	52	52	54	55	59	63	64
STN 24E	:	65	65	65	65	65	65	65	66	67	66
STN 4E	:	64	64	64							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 11N >				FILTER < 0 >					
STN 44E	:	65	66	67	69	70	73	75	75	75	74
STN 24E	:	72	70	68	69	70	69	68	67	65	65
STN 4E	:	65	66	67							

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

		LINE < 12N >				FILTER < 0 >					
STN 20E	:	75	74	72	74	75	74	72	71	70	69



DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 17N > FILTER < 0 >

STN 40E	:	70	73	76	81	85	83	80	75	70	71
STN 20E	:	72	74	75	75	75	70	65	67	68	68
STN 0	:	68									

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 18N > FILTER < 0 >

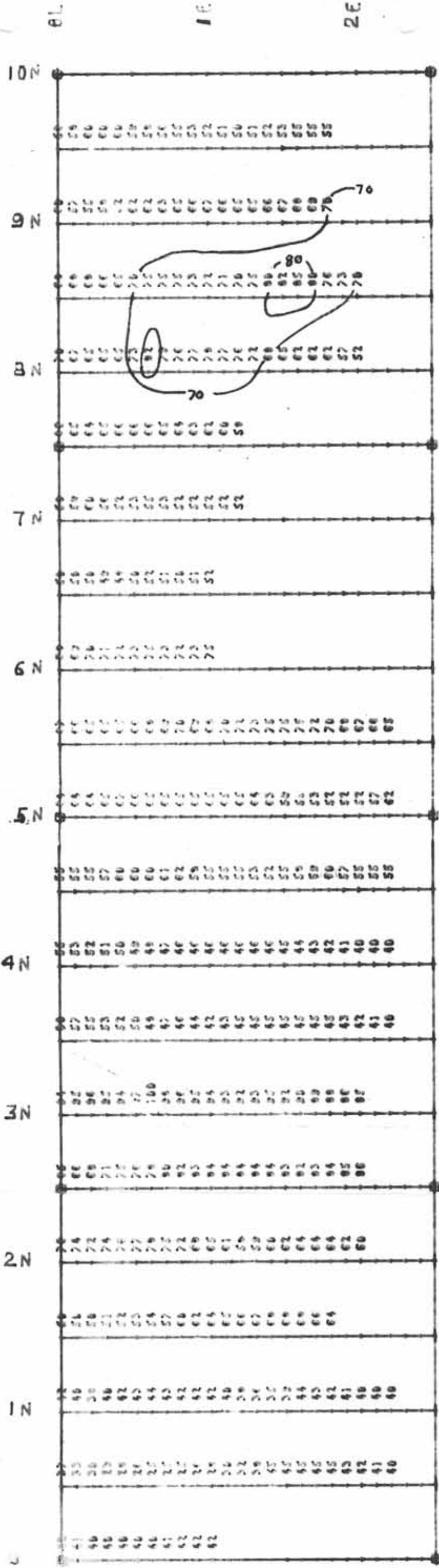
STN 36E	:	70	69	68	67	66	66	65	66	67	66
STN 16E	:	65	64	62	62	62	59	55	58	60	

DATA FILE < BELLFS >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLF-EM TRANSMITTER, FIELD STRENGTH DATA

LINE < 19N > FILTER < 0 >

STN 36E	:	55	55	55	54	52	51	50	51	52	54
STN 16E	:	55	57	58	59	60	60	60	58	56	



BOISE CREEK RESOURCES LTD.

BELL CLAIM  
 OSOYOUS  
 KEROMEOS B.C.

VLF-EM FIELD STRENGTH  
 SEATTLE TRANSMITTER

DATE: JAN. 1984  
 X-SCALE = 1:2500  
 Y-SCALE = 1:2500  
 MAP SHEET # 2

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 0 > FILTER < 1 >

STN 17E : 5 -1 -2 2 4 4 0 -8

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 1N > FILTER < 1 >

STN 21E : 5 -1 -2 2 6 10 7 -3 -4 4  
STN 1E :

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 2N > FILTER < 1 >

STN 25E : 9 3 1 3 2 -2 -4 -4 -5 -7  
STN 5E : -7 -5

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 3N > FILTER < 1 >

STN 33E : -7 -5 -2 2 4 4 3 1 1 3  
STN 13E : 3 1 2 6 7 5

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 4N > FILTER < 1 >

STN 37E : 1 -5 -6 -2 0 0 1 3 3 1  
STN 17E : -1 -3 -3 -1 0 0 1 3



BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 5N > FILTER < 1 >

STN 37E	:	1	3	2	-2	-3	-1	1	3	3	1
STN 17E	:	-1	-3	-3	-1	0	0	1	3		

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 6N > FILTER < 1 >

STN 37E	:	1	3	2	-2	-4	-4	-1	5	7	5
STN 17E	:	4	4	2	-2	-2	2	3	1		

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 7N > FILTER < 1 >

STN 41E	:	-2	2	3	1	1	3	1	-5	-4	4
STN 21E	:	5	-1	-2	2	3	1	2	6	7	5
STN 1E	:										

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 8N > FILTER < 1 >

STN 41E	:	0	0	1	3	4	4	3	1	0	0
STN 21E	:	2	6	4	-4	-5	1	4	4	1	-5
STN 1E	:										

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 9N > FILTER < 1 >

STN 41E	:	-4	-4	-2	2	4	4	2	-2	-3	-1
STN 21E	:	0	0	0	0	1	3	3	1	1	3



DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 15N > FILTER < 1 >

STN 21E : -2 2 2 -2 -3 -1 1 3 5 7  
STN 1E :

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 16N > FILTER < 1 >

STN 37E : 6 2 2 6 6 2 0 0 -1 -3  
STN 17E : -5 -7 -8 -8 -5 1 4 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 17N > FILTER < 1 >

STN 37E : -4 -4 -6 -10 -8 0 4 4 3 1  
STN 17E : 0 0 0 0 1 3 3 1

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 18N > FILTER < 1 >

STN 33E : -1 -3 -1 5 5 -1 -2 2 2 -2  
STN 13E : -2 2 4 4 4 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 19N > FILTER < 1 >

STN 33E : -1 -3 -1 5 5 -1 -7 -13 -7 11  
STN 13E : 15 5 1 3 4 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 20N > FILTER < 1 >

STN 33E	:	2	6	8	8	6	2	1	3	2	-2
STN 13E	:	-3	-1	1	3	4	4				

---

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 0 > FILTER < 2 >

STN 14E	:	2	4	0							
---------	---	---	---	---	--	--	--	--	--	--	--

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 1N > FILTER < 2 >

STN 18E	:	2	8	10	2						
---------	---	---	---	----	---	--	--	--	--	--	--

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

STN 22E : 8 2 -4 -10 -12

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 3N > FILTER < 2 >

STN 30E : -6 4 6 4 4 6 10

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 4N > FILTER < 2 >

STN 34E : -6 -4 2 4 0 -4 -2 2

DATA FILE < BELLDIP >

~~BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.~~  
~~SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA~~

LINE < 5N > FILTER < 2 >

STN 34E : 2 -2 0 4 0 -4 -2 2

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 6N > FILTER < 2 >

STN 34E : 2 -4 -2 8 10 4 0 2

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 7N > FILTER < 2 >

STN 38E : 2 4 0 -2 2 2 2 6 10

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 8N > FILTER < 2 >

STN 38E : 2 6 6 2 4 4 -2 2 2

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 9N > FILTER < 2 >

STN 38E : -4 4 4 -2 -2 0 2 4 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 10N > FILTER < 2 >

STN 38E : -2 -2 6 0 -8 -6 -2 0 0

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 11N > FILTER < 2 >

STN 38E : 6 4 -4 -6 -6 -8 -6 0 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 12N > FILTER < 2 >

STN 14E : 0 0 -8

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 13N > FILTER < 2 >

STN 14E : 0 6 12

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 14N > FILTER < 2 >

STN 18E : 8 4 -4 0

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 15N > FILTER < 2 >

STN 18E : 0 -2 0 8

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 16N > FILTER < 2 >

STN 34E : 8 8 4 -2 -8 -14 -10 2

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 17N > FILTER < 2 >

STN 34E : -12 -12 0 6 2 0 2 4

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

---

LINE < 18N > FILTER < 2 >

STN 30E : 0 4 2 0 0 4 8

DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 19N > FILTER < 2 >

STN 30E : 0 4 -8 -8 -12 12 6

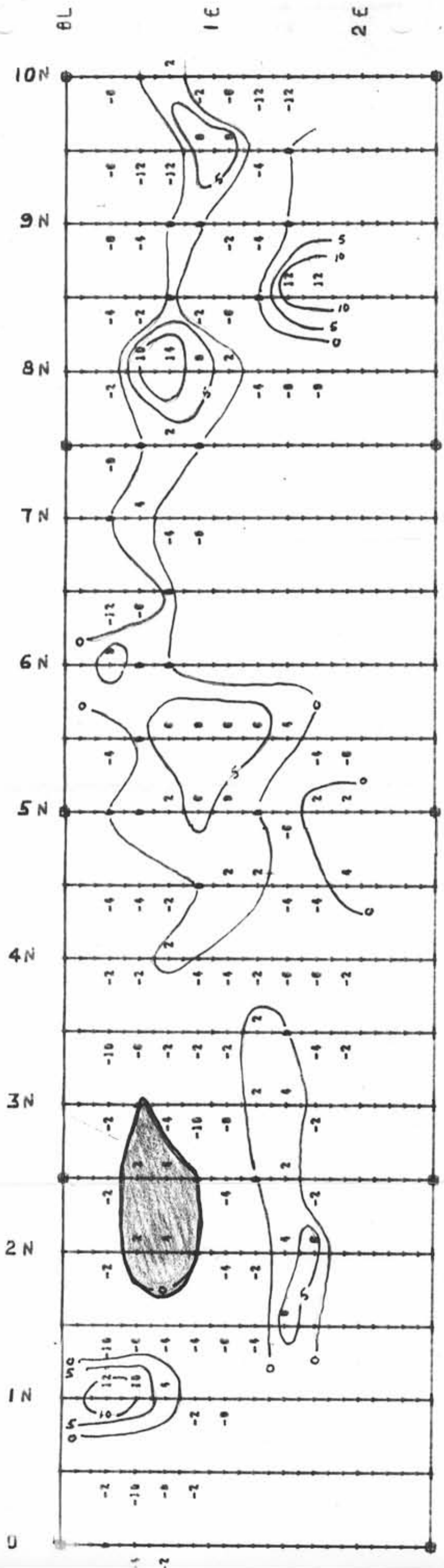
DATA FILE < BELLDIP >

BOISE CREEK RESOURCES LTD., BELL CLAIM, KEROMEOS B.C.  
SEATTLE VLV-EM TRANSMITTER, DIP ANGLE DATA

LINE < 20N > FILTER < 2 >

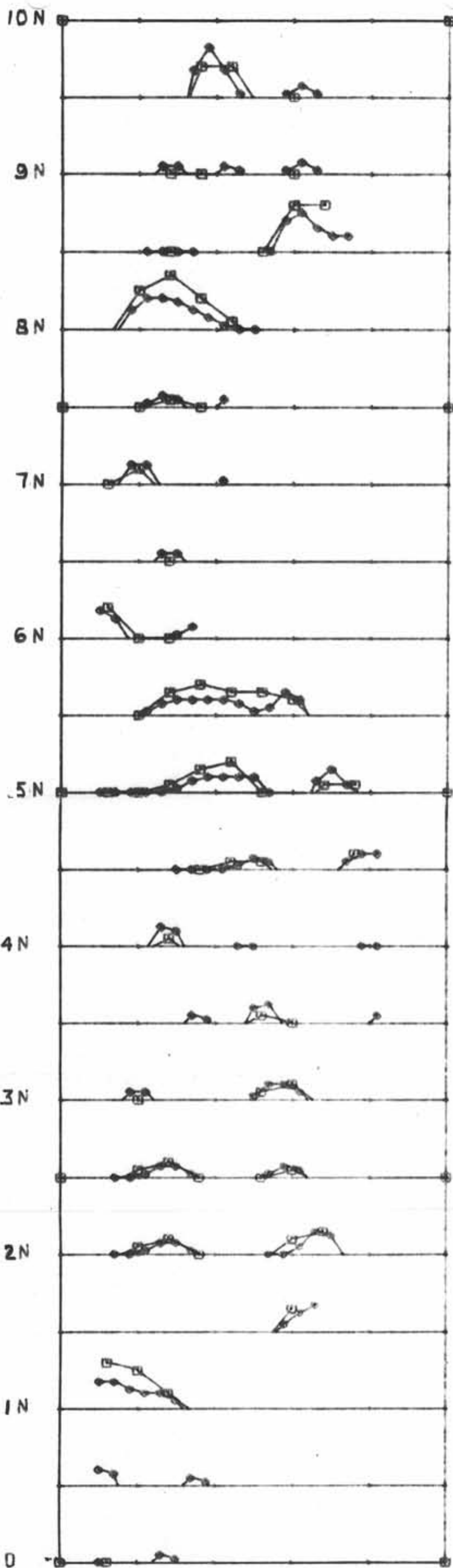
STN 30E : 12 12 6 2 -2 0 6





BOISE CREEK RESOURCES LTD.  
 BELL CLAIM  
 OSOYOUS M.D.  
 KEROMEOS AREA B.C.

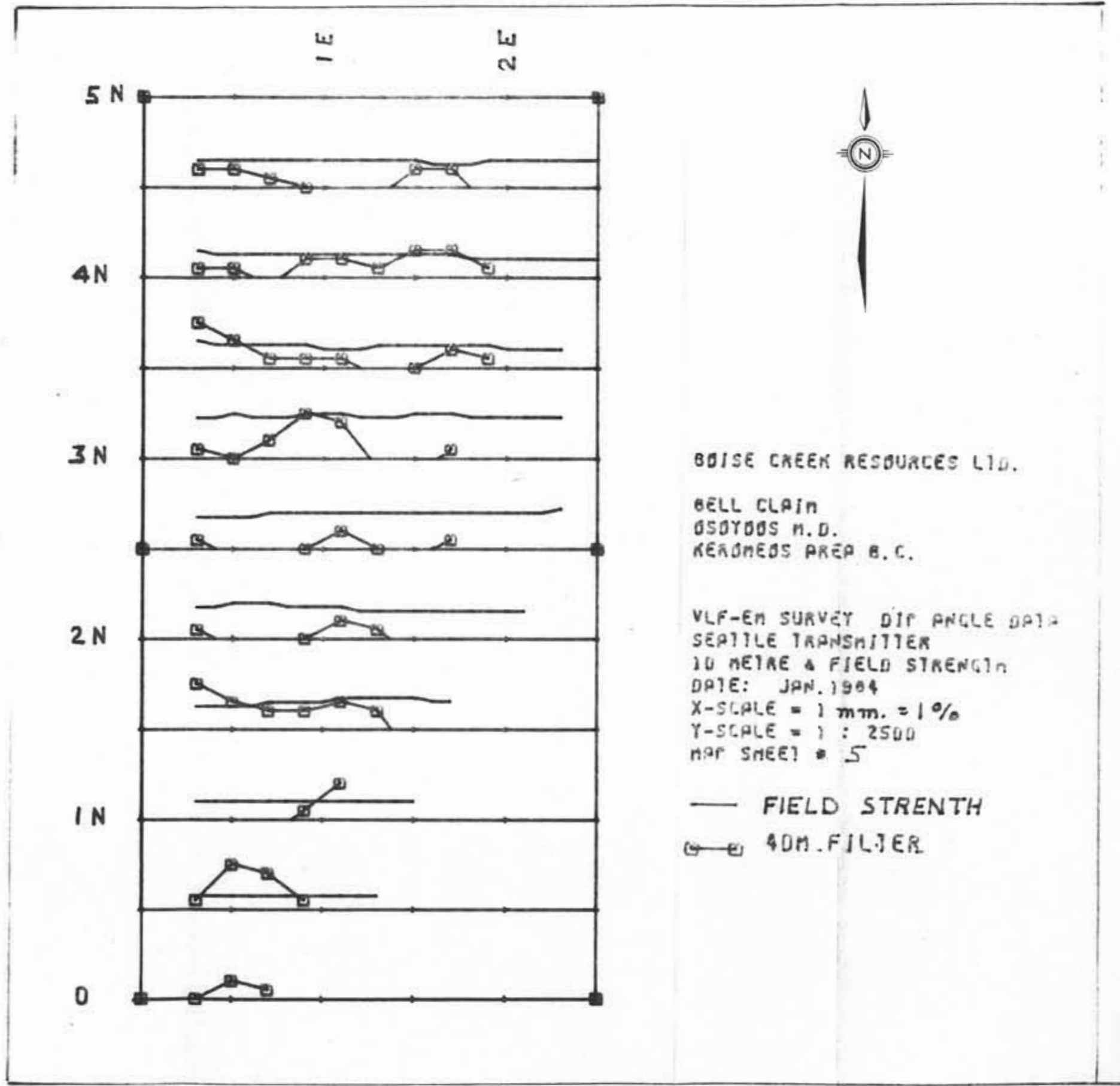
VLF-EM SURVEY  
 SEATTLE TRANSMITTER  
 DIP ANGLE 20 METER FILTER  
 DATE: JAN. 1984  
 X-SCALE = 1 : 2500  
 Y-SCALE = 1 : 2500  
 MAP SHEET # 3



BOISE CREEK RESOURCES LTD.  
 BELL CLAIM  
 OSOYOOS M.D.  
 KEROMEOS AREA B.C.

VLF-EM SURVEY DIP ANGLE DATA  
 SEATTLE TRANSMITTER  
 10 Metre x 20 Meter Filter  
 DATE: JAN. 1984  
 X-SCALE = 1 mm = 1%  
 Y-SCALE = 1 : 2500  
 MAP SHEET # 4

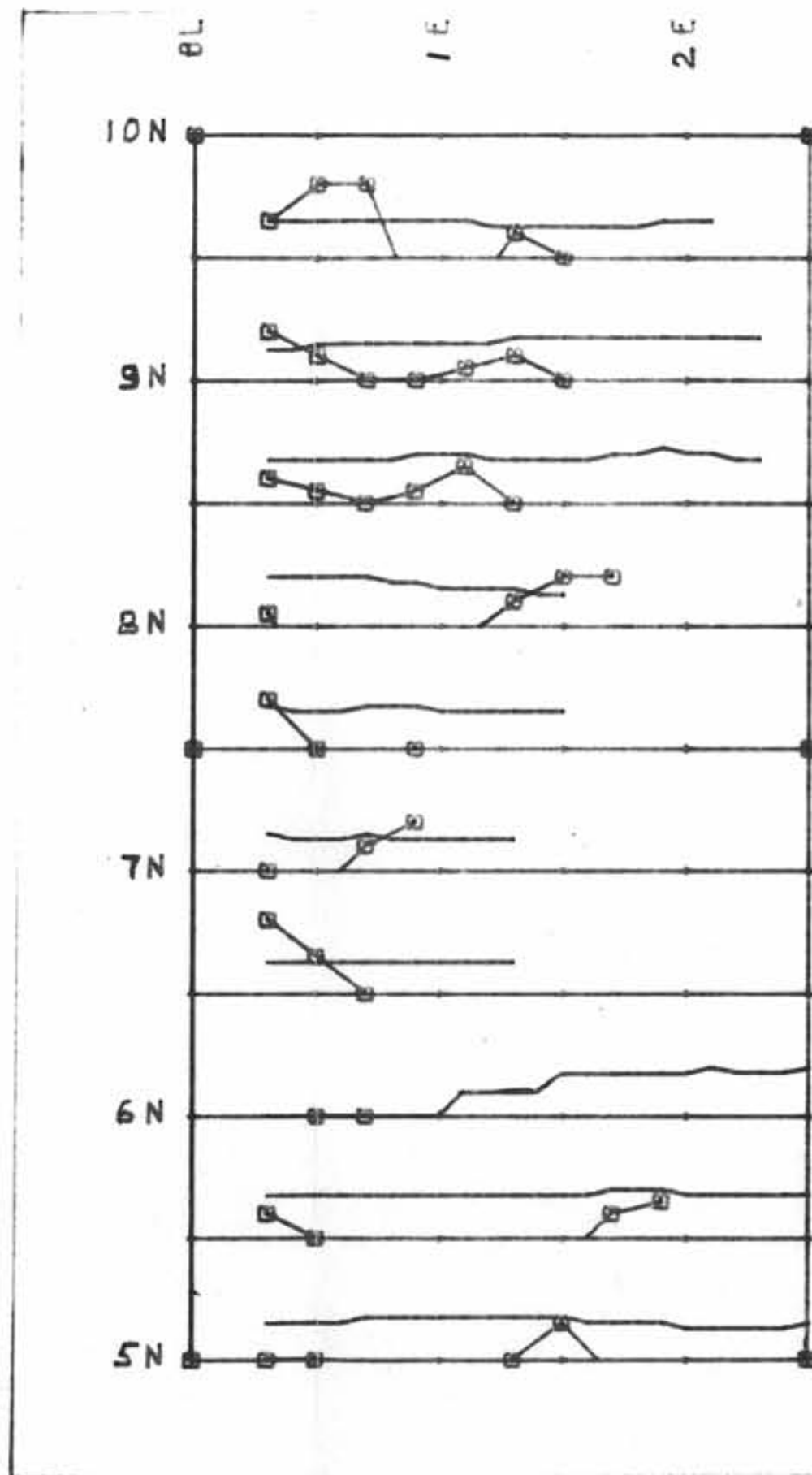
○—○ 10M. FILTER  
 □—□ 20M. FILTER



BOISE CREEK RESOURCES LTD.  
 BELL CLAIM  
 OSOYOUS N.D.  
 KEROMES AREA B.C.

VLF-EM SURVEY DIP ANGLE DATA  
 SEATTLE TRANSMITTER  
 10 METRE & FIELD STRENGTH  
 DATE: JAN. 1984  
 X-SCALE = 1 mm. = 1%  
 Y-SCALE = 1 : 2500  
 MAP SHEET # 5

— FIELD STRENGTH  
 □— 4DM.FILTER



BOISE CREEK RESOURCES LTD.

BELL CLAIM  
 OSOYOUS M.D.  
 KEROMEOS AREA B.C.

VLF-EM SURVEY DIP ANGLE DATA  
 SEATTLE TRANSMITTER  
 10 Metre & FIELD STRENGTH  
 DATE: JAN. 1984  
 X-SCALE = 1:2500  
 Y-SCALE = 1mm = 1%  
 MAP SHEET # 6

— FIELD STRENGTH  
 □ 20m. FILTER