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RECONNAISSANCE GEOPHYSICAL AND GEOCHEMICAL SURVEYS

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BINE #1-10 CLAIMS (BINE GROUP) SOUTH SALMO RIVER AREA NEAR NELWAY, BRITISH COLUMBIA NELSON MINING DIVISION 82 F/3E and 3W Lat: 49°02'N Long: 117°14'W

> OWNED BY W. ARTHUR HALL AND E. R. ROCKEL

OPERATOR AND CONSULTANT INTERPRETEX RESOURCES LTD. CALGARY, ALBERTA



REPORT PREPARED BY E. R. ROCKEL, B.Sc., P. Geoph. (Alberta)

NOVEMBER 1982

Respectfully Submitted INTERPRETEX RESOURCES LTD.

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EDWIN R. ROCKEL, B.Sc., P. Geoph. Consulting Geophysicist

THE ASSOCIATION OF PROFESSIONAL ENGINEERS, GEOLOGISTS and GEOPHYSICISTS OF ALBERTA PERMIT NUMBER P 3100 INTERPRETEX RESOURCES LTD.

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1. <u>SUMMARY</u>

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Relatively high conductance VLF-EM anomalies have been located on the Bine Group.

Follow-up of the conductors is warranted to establish the strength and validity of the anomalies. A further orientation VLF-EM survey and magnetic survey is recommended to establish the anomaly trend. Detailed electromagnetic surveys and geological and geochemical investigations are recommended to follow.

2. INTRODUCTION

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The Bine Group of claims are situated approximately 1 km south of the South Salmo River, and approximately 2 km southeast of the Nelway junction of the Salmo-Creston Highway.

A road to Rosebud Lake provides access to the claims.

The claims are situated on moderately sloping to steep ground.

Only small areas of outcrop exposure were observed during the surveys. Small, isolated patches of glacial outwash are prevalent throughout the claims. Cover is thin in most areas.

Claims in the Bine Group are owned by W. Arthur Hall and E. R. Rockel, both of Calgary, Alberta.

The operator of the 1982 program was Interpretex Resources Ltd., Calgary, Alberta, a firm specializing in geophysical and geological consulting and contracting for mineral exploration.

The Bine claim group was acquired to cover a possible projection on strike of occurrences on the Lone Silver claims to the south.

A location/index map is included in this report as Figure 1.

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3. MINERAL CLAIMS

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<u>Claim</u>	Record <u>Number</u>	Month of 	Owner
Bine #1	2467	Sept.	E. R. Rockel
Bine #2	2468	Sept.	E. R. Rockel
Bine #3	2469	Sept.	E. R. Rockel
Bine #4	2470	Sept.	E. R. Rockel
Bine #5	2471	Sept.	E. R. Rockel
Bine #6	2472	Sept.	E. R. Rockel
Bine #7	2473	Sept.	E. R. Rockel
Bine #8	2474	Sept.	E. R. Rockel
Bine #9	2475	Sept.	W. A. Hall
Bine ∦10	2476	Sept.	W. A. Hall

4. GEOLOGY AND MINERALIZATION

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Although no geological evidence of economic mineralization has been found to date, it is expected that Ag, Pb, Zn mineralization may occur in relation to mineral occurrences to the south.

5. <u>GEOPHYSICAL</u> SURVEYS

5.1 Survey Parameters

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--- Survey lines were chained and flagged during the survey. Survey stations were located at 50 metre intervals for reconnaissance. The following coverage was obtained during the survey:

Magnetometer survey - 1.30 km VLF-EM survey - <u>1.30 km</u> Total coverage - 2.60 km

5.2 Equipment Parameters

G-816 Total Field Magnetometer:

- (i) measured total magnetic field
- (ii) magnetic variations controlled using "tie-back" method and linear diurnal curves
- (iii) instrument accuracy ±1 gamma
 - (iv) station repeatability +3 gammas

EM-16, VLF-EM:

(i) stations used - NAA, Cutler, Maine
 - NPG, Seattle, Washington
 (ii) directions operator faced - southeast
 - northeast

as per map Figure 2.

5.3 Data

(i) Calculations:

No corrections were made to VLF-EM data. During the magnetic survey the tie-back method was used to control magnetic variations. The data was corrected for diurnal variations of the earth's magnetic field using linear diurnal curves.

(ii) Presentation:

All geophysical data are presented in profile form at a scale of 1:5,000 on plan map Figure 2 containing claim boundaries.

5.4 Interpretation

Electromagnetic survey results show two apparent conductors on line 1+00N and a conductive zone on line 8+00E. A disturbance of the profile at and near 8+00E on line 0+50S may be caused by response to the feature on line 8+00E. All conductors are believed to be moderate to low conductance and relatively shallow.

Magnetic survey results indicate a level change coincident with the strong EM anomaly at 4+45E on line 1+00N. A slight level change can also be observed at the EM anomaly position 6+70E. No other significant magnetic features were evident in these data.

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6. GEOCHEMICAL SURVEY

Nine soil samples and three rock samples were collected at selected intervals along line 1+00N (Figure 3).

B horizon material was collected at approximately 20 cm depth.

Rock chip samples were collected at selected outcrops. The observed rock type was primarily limey laminated argillite.

Zinc in soil values generally exceeded 200 ppm and may reflect high background levels in argillites.

7. CONCLUSIONS

(a) The two EM anomalies found on line 1+00N at 4+45E and 6+70E may represent two distinct conductors, or by type curve interpretation they may be construed as the edges of one wide conductive zone such as a fault. When considering EM topographic effects and the terrain in the area the writer believes that two distinct conductors is the correct interpretation from these profiles.

Moderate to low conductance plus a magnetic level change at the 4+45E anomaly indicates a fault conductor. When looking closely at the magnetic profile a similar level change appears coincident with the EM anomaly at 6+70E. This suggests another, probably parallel, fault as the cause of conductivity.

(b) Conductivity seen on line 8+00E plus the disturbance on the line 0+50S profile near 8+00E suggests additional conductivity in this area. Since the strike of this conductor appears to be different from that of the previous two conductors a complex conductive and structural situation may exist. Although there is insufficient data here to speculate much further, the writer suggests that some form of cross faulting with structural traps should not be excluded from consideration. More data is required to test this hypothesis before any further interpretation is warranted. (c) Lead and silver values in soil show no demonstrable anomalies or enrichments. Geochemically anomalous levels of zinc are believed to reflect high background in argillites. However, zinc levels in three rock samples collected from the Bine property average only 35 ppm, and zinc in soil enrichments may reflect nearby sulphide mineralization.

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8. <u>RECOMMENDATIONS</u>

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- (a) Reconnaissance and detailed prospecting is recommended to follow-up survey results and establish ground control.
- (b) Additional VLF-EM and magnetic surveys are recommended to establish structural and mineralogical trends, especially in the areas of EM anomalies found by the present survey.
- (c) Further soil sampling should be carried out on parallel traverses to establish potential bedrock sources of zinc mineralization.

CERTIFICATE

- I, Edwin R. Rockel, hereby certify that:
- I am a Consulting Geophysicist and owner of Interpretex Resources Ltd. of P.O. Box 6107 Station A, in the City of Calgary, in the Province of Alberta.
- I currently reside at #4, 12625 24th Street S.W., in the City of Calgary, in the Province of Alberta.
- I obtained a Bachelor of Science degree in Geophysics and Geology in 1966 from the University of British Columbia.
- 4. I have been practising my profession as an Exploration Geophysicist since 1967.
- 5. I am a Professional Geophysicist registered in the Province of Alberta.

Nov. 9 82

Edwin R. Rockel, B.Sc., P. Geoph. Interpretex Resources Ltd.

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APPENDIX I

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GEOPHYSICAL DATA SHEETS

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APPENDIX II

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INSTRUMENT SPECIFICATIONS

GEONICS LIMITED VLF EM 16

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Source of Primary Field:	VLF transmitting stations
Transmitting Stations Used:	Any desired station frequency can be supplied with the instrument in the form of plug-in tuning units. Two tuning units can be plugged in at one time. A switch selects either station.
Operating Frequency Range:	About 15-25 Hz
Parameters Measured:	 The vertical in-phase component (tangent of the tilt angle of the polarization ellipsoid). The vertical out-of-phase (quadrature) com- ponent (the short axis of the polarization ellip- soid compared to the long axis).
Method of Reading:	In-phase from a mechanical inclinometer and quad- rature from a calibrated dial. Nulling by audio tone.
Scale Range:	In-phase ±150%; quadrature ±40%
Readability:	±1%
Reading Time:	10-40 seconds depending on signal strength
Operating Temperature Range:	-40 to 50° C.
Operating controls:	ON-OFF switch, battery testing push button, station selector, switch, volume control, quad- rature, dial ±40%, inclinometer dial ±150%
Power Supply:	6 size AA (penlight) alkaline cells. Life about 200 hours
Dimensions:	42 x 14 x 9 cm (16 x 5.5 x 3.5 in)
Weight:	1.6 kg (3.5 lbs)
Instrument Supplied With:	Monotonic speaker, carrying case, manual of operation, 3 station selector plug-in tuning units (additional frequencies are optional), set of batteries
Shipping Weight:	4.5 kg (10 1bs.)
Name and Address of Manufacturer:	Geonics Limited 1745 Meyerside Drive/Unit 8 Mississauga, Ontario L5T 1C5

MODEL G-816 PORTABLE PROTON MAGNETOMETER

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Sensitivity:	<u>+</u> 1 gamma throughout range .
Range:	20,000 to 90,000 gammas (worldwide)
Tuning:	Multi-position switch with signal amplitude indicator light on display
Gradient Tolerance:	Exceeds 800 gammas/ft
Sampling Rate:	Manual pushbutton, one reading each 6 seconds
Output:	5 digit numeric display with readout directly in gammas
Power Requirements:	Twelve self-contained 1.5 volt "D" cell universally available flashlight-type batteries. Charge state or replacemnt signified by flashing indicator light on display.
Temperature Range:	Console and sensor: -40° to +85°C
-	Battery pack: 0° to +50°C (limited use to -15°C; lower temperature battery belt operation - optional)
Accuracy (Total Field):	± 1 gamma through 0° to ± 50 °C temperature range
Sensor:	High signal, noise cancelling, interchangeably mounted on separate staff or attached to back back
Size:	Console: 3.5 x 7 x 11 inches (9 x 18 x 28 cm) Sensor: 3.5 x 5 inches (9 x 13 cm) Staff: 1 inch diameter x 8 ft. 1 ength (3 cm x 2.5 m)
Weight:	Lbs.Kgs.Console (w/batteries)5.52.8Sensor and signal cable:41.8Aluminum staff:2.9
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APPENDIX III

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GEOCHEMICAL DATA SHEET

Laboratory:	Terramin Research Labs Ltd.,
	Calgary, Alberta
Mesh Size:	Sample disaggregation to -80 mesh,
	rocks crushed and ground to -200 mesh
Extraction:	Hot HNO3/HClO4 to dryness,
	taken up in dilute HCl
Analysis:	Atomic absorption



ANALYTICAL REPORT

Job #

82-079

GEOSTRATEGIC CONSULTANTS Ltd.

Date July 12, 1982

Client Project

Page 1/1

	Sample No.	Pb ppm	Zn ppm	Ag	
				······	
<u>Soil</u>	118839	18	240	0.4	
	118840	11	400	0.4	
	118841	14	340	0.4	
	118842	18	207	. 0.5	
	118843	17	240	0.4	
	118844	19	280	0.3	
	118845	32	340	0.5	
	118846	18	172	0.2	
	118847	29	320	0.2	
Rock	Hole	10	20	0.2	
	Pit	116	39	2.1	
	Chopper Pad	21	27	0.8	
	Goat Farm	10	36	0.1	
	R-50-M	7	44	0	
	R-125-M	7	34	0	

 14, 2235 - 30th Avenue N.E., Calgary, Alberta T2E 7C7

 (403) 276-8668
 Telex 03-821172 CGY

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APPENDIX IV

STATEMENT OF EXPENDITURES

Labour Costs	
Geophysicist (E.R. Rockel)	
1.5 days @ \$350.00/day	\$525.00
Geochemist (D.S. Evans)	
1 day @ \$300.00/day	\$300.00
Junior Assistant (W.A. Hall)	
1 day @ \$125.00/day	\$125.00
Junior Geophysicist (H.M. Rockel)	
1 day @ \$160.00/day	\$160.00

Other Costs

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Mobilization/Demobilization/Vehicles	\$170.00
Travel, Field Support @ \$25.00/day/man	\$100.00
Instrument Rental	\$120.00
Geochemical Analyses	\$30.00
Report, Materials, Maps	\$80.00
TOTAL	\$1,610.00

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Dates

June 25 - Soil survey, VLF and EM survey Oct. 20 - Report



C RESOURCES B:10 0 Bine 8 TURBINE GROUP Rosebud Lake Area Bine # 1 to 10 Claims VLF-EM. and Magnetic Survey EM-16 and 6-816 Scale: 1:5,000 N.T.S. 82 F/3E+3W Date : Oct., 1982 Figure # 2

