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ASSESSMENT REPORT  
on  
Geophysical and Geochemical Surveys  
Orientation Survey

RELIANCE PROPERTY  
Lillooet Mining Division, B.C.  
Latitude 50°52.5' N Longitude 122°46.5' W  
NTS Map 92 J 15

September 8 - 11, 25 - 29, 1984

Operator: Charles Boitard  
2245 W. 13th Avenue  
Vancouver, B.C.

Author: John P. Ia Rue  
President  
Interex Resources Inc.  
Box 122  
Madeira Park, B.C.

October 17th, 1984



INTRODUCTION

(i) The RELIANCE Property is located east of Gold Bridge, B.C. in the Lillooet Mining Division and consists of crown grants and fractions as follows:

Claim Name

Omen	1,2,3,7,8	5 units (7659, 7660,7661,7465,7496)
Nemo	1 - 8	8 units (7651,7652,7653,7654,7655, 7656,7657,7658)
Eros	2	1 unit (7498)
Omen fraction		Fraction (7502)
Nemo fraction		Fraction (7503)
Thin fraction		Fraction (7505)
Nova fraction		Fraction (7504)
Eros fraction		Fraction (7499)

The RELIANCE Property is situated in the historically famous Bridge River Mining Camp, where two of the most notable producers, the Bralorne and Pioneer Mines, produced over 4.1 million ounces of gold from eight million tons of ore for an average grade of 0.53 oz/ton.

Minister of Mines Annual Reports indicate a shipment of high grade hand-cobbed gold-antimony ore from the RELIANCE in 1917, reportedly from the uppermost Reliance Adit at 3380' elevation. The 1936 Minister of Mines Annual report indicates the Turner Adit at 2721' elevation was being advanced by hand steel. Evidence below the Turner Adit indicates a small hand sorting operation was employed; a 1 meter wide "horse trail" switchbacks up the ridgeline to the Fergusson and Reliance workings.

Tri-Con Exploration Surveys Ltd. of Vancouver conducted geochemical and geophysical surveys on the RELIANCE in the summer of 1971. Results of the survey were positive (Dept. of Mines Assessment Report # 3276) and identified three areas of interesting antimony-arsenic trends which had geochemical values in the soil greater than those at

the known mineral showings; one of these areas is greater than 1000 meters in length and includes the Senator workings towards the western boundary of the property. Research failed to disclose any work on the property since this 1971 survey.

From September 8th through 11th and September 25th through 29th, 1984 personnel of Interex Resources Inc., at the request of Charles Boitard, conducted an initial orientation and grid establishment program, followed by geochemical and geophysical surveys on the RELIANCE Property. Focus of the '84 exploration program was an orientation and re-sampling of the results of the '71 Tri-Con survey, and a followup geochemical and geophysical survey to determine if gold geochemistry values might be associated with the previously defined conductors and antimony-arsenic geochemical anomalies.

The claim group is situated on the south side of the Bridge River (Carpenter Lake), 5.6 Km. east of Gold Bridge by gravel road along the south side of the Bridge River; Latitude  $50^{\circ}52.5'$  N and Longitude  $122^{\circ}46.5'$  W. Elevation at the claim group ranges from 2300' at the roadside to more than 4600' towards the southeastern boundary of the claims. Topography is rugged with the slope generally around 35%. Timber is primarily fir with interspersed spruce and pine, and occasionally clumps of cherry and willow, especially near the stream courses. Undergrowth is moderate to heavy, of dry interior species. Outcrop exposures are few at the lower elevations except along roadside and along pronounced ridge lines; depth to bedrock in topographical depressions is projected up to 3 meters depth, varying primarily with the thickness of the mantle of humice covering everything. Water is available from two year round creeks running through the property. Hydro power is available within three kilometers of the group.

- (ii) The RELIANCE Group is owned by Karl Otting of Lillooet and operated by Charles Boitard of Vancouver, with an option to purchase. Local geology as depicted by J.A. Roddick and W.W. Hutchinson 1970 in "Geology - Pemberton East Half" and McCann, W.S. 1922, "Geological Survey - Bridge River, B.C. Canada Dept. of Mines Memoir 130" is a sequence of the Ferguson Group cherts, argillites, phyllites and greenstones; minor limestone.
- (iii) A summary of work performed on the RELIANCE Group Mineral Claims are as follows:
- A. A total of 2.5 Km. of baseline and grid were established. The baseline was blazed, flagged, cleared of small brush, and stations marked at 50 meter station intervals for a total of 1200 meters length. Survey Lines 0, 250S, 350S, and 400S were blazed and flagged at 10 meter station intervals for a total of 1300 meters.
  - B. An initial orientation survey was performed in four traverses to: locate the old access trails leading to the adits and workings; sample the mineralization; search for a roadway path with favourable access gradient for a future access and exploration road; and to locate and if necessary rehabilitate the baseline and grid markings of the 1971 Tri-Con surveys, that they might be incorporated in the '84 exploration program.
  - C. A VLF - EM Electromagnetic Survey was performed on Lines 0, 250S, 350S and 400S for a total of 1.29 Km. or 129 readings.
  - D. A total of 81 soil samples were collected at 10 meter station intervals on Lines 250S, 350S, and 400S for soil analysis.
- (iv) Work was performed over portions of the Omen 1 - 2, Nemo 1, 3 - 7, Eros Fraction, Nemo Fraction, and Thin Fraction.



## DETAILED TECHNICAL DATA AND INTERPRETATION

An orientation survey was performed in four traverses to: locate and mark the access trails leading to the old workings; view and sample the showings and familiarize with the immediate local geologic model for ore deposition; locate and verify the baseline and grid of the 1971 Tri-Con survey that it might be used for control and reference for use in the '84 exploration program; prospect and followup the anomalies outlined in the '71 survey; and search for the best path for a bulldozer to push a roadway for future improved access and exploration.

Erosion has erased roadside recognition of the old trails leading to the workings; the start of the trails are now indicated at roadside by marked flagging tape. The old trails left over from "production" days are in places eroded, but overall still in fair condition and can be followed easily; they generally follow more gradual elevation gradients and facilitate access to the steep sidehill workings. The trail from the west of the claim group would provide the best access for a future exploration road to follow.

At the time of this '84 survey, Camp Creek was running underground below the 2600' elevation mark and it's location was not apparent from roadside, contrary to prior mapping. Occasional, blank, faded flagging ribbons were the only visible remaining sign of a previous survey. No indications of the old baseline or grid could be found or located that might be incorporated into the '84 survey.

The Turner, Fergusson, and Reliance adits and open cuts were still in fair condition; minor sloughing of debris was encountered in the Fergusson and Reliance open cuts. One adit of the Senator workings was caved at the portal; entrance was gained by removal of approximately 1 cu. meter of debris by shovel to permit access through a small crawl space. A 15 meter long adit was discovered between the Fergusson and Turner adits that was not mentioned in any of the reports researched by the author. The adit follows vertical mineral-

ized shears and veinlets (stibnite, quartz) that trend  $65^{\circ}$  NE. The entrance is below trail elevation, and indicated by a small  $5 \text{ m}^3$  dump.

The baseline was established with thread and compass, is blazed, flagged at 50 meter intervals with marked flagging ribbon, and cleared of small brush for its' 1200 meter length. A blazed location tree indicates CO + CO at roadside, 100 meters west of the depression representing Camp Creek. Orientation of the baseline is  $160^{\circ}$  SE, and station measurement was not slope corrected.

Survey lines were established with thread and compass, blazed and marked with numbered flagging ribbon at 10 meter station intervals. Orientation is perpendicular to the baseline, or  $70^{\circ}$  NE. Lines were bounded on the east by Camp Creek and were of varying lengths to suit the survey.

A total of 1.29 kilometers of VLF - EM electromagnetic survey was performed over Lines 0, 250S, 350S, and 400S for a total of 129 readings. Readings were taken at 10 meter station intervals. The purpose of the survey was to search for conductive zones and/or faults which might be related to high grade gold-antimony mineralization local to the area, and at the same time verify and delineate for control and reference purposes the location of a conductor(s) that had been indicated in the 1971 geophysical survey. A Sabre Electronics Model 27 VLF - EM Receiver was used in the survey. VLF electromagnetics operate indirectly through VLF (very low frequency) military radio communication transmissions. These electromagnetic waves set up measurable secondary electromagnetic fields in certain geologic structures such as fault zones (which are also sometimes mineralized) and/or heavily mineralized "conductors" such as concentrations of massive sulphide mineralization; the military station at Seattle, Washington, U.S.A. was selected for use in the survey because of its favorable geographical location, and the strength and stability of it's transmissions. It is this secondary generated electromagnetic field which is measured by a VLF - EM receiver. Results are plotted as dip angle (relative angle from the receiver to the source of the secondary field) and field strength (relative measurements of the comparative strength

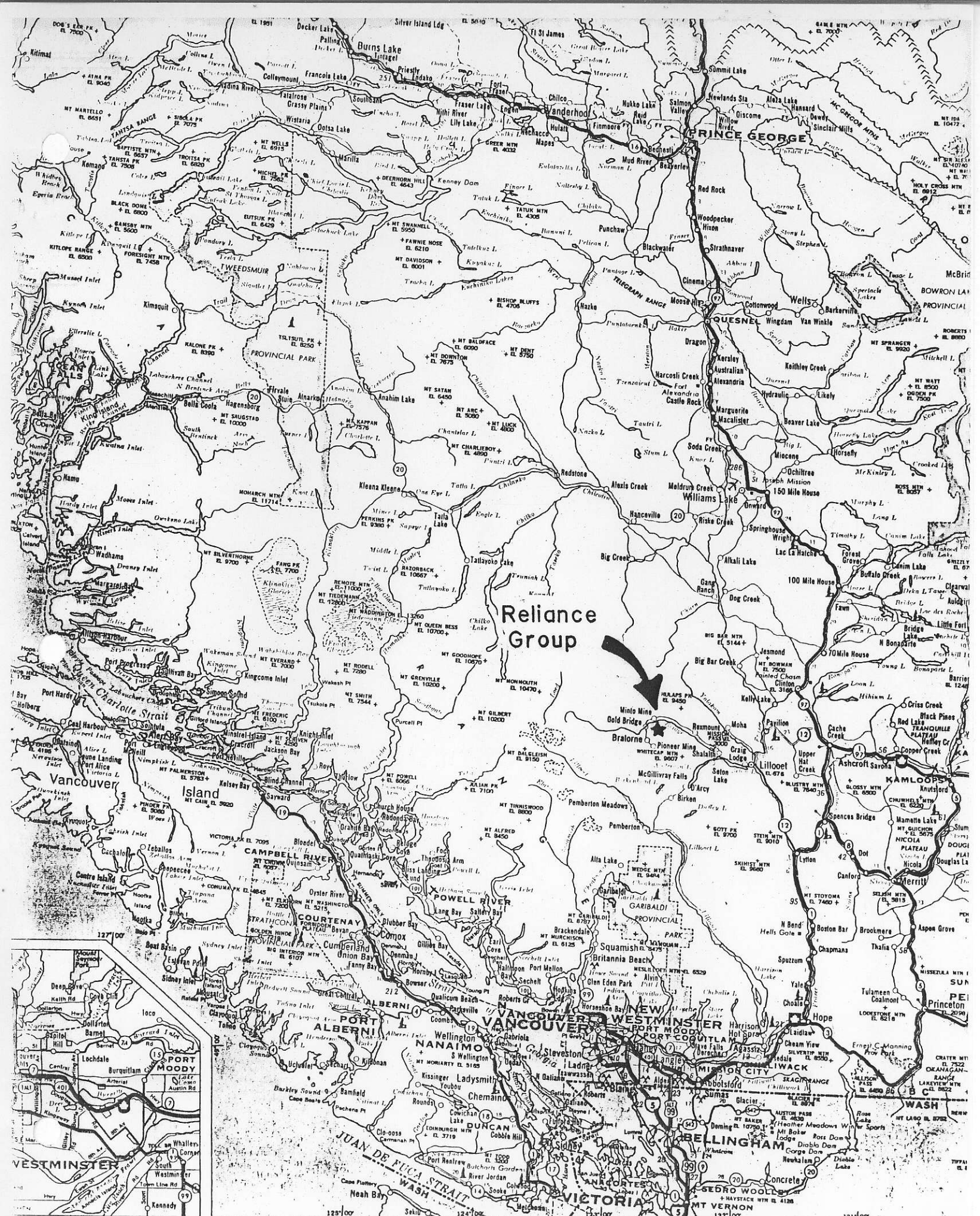
of the secondary field) components. Additional mapping and further surveying preclude an interpretation of the results of this survey. The conductor established in the '84 survey conforms with the location of the control conductor selected from the '71 survey and provides a focus for further surveying.

A total of 76 soil samples were taken at 10 meter intervals on Lines 250S, 350S, and on 400S from 120E - 320E; 5 samples were taken at 20 meter intervals from 00 Baseline through 100E on Line 400S. Considerable time, effort, and expense was incurred sampling the "B" horizon (it was determined by Soil Orientation Profile in the '71 Tri-Con survey to be the most suitable sampling horizon to reflect possible underlying mineralization). The property is covered by a mantle of volcanic pumice averaging 91 - 106 cm. (3' - 3.5'); many holes in excess of 140cm. (4.5') were dug to sample the correct horizon. The pumice layer was thickest in topographic depressions and in several locations the "B" horizon was too deep to practicably be sampled; in these instances, samples were taken from the L.H. (Leaf - Humus) horizon as indicated. Samples were taken with a long handled shovel and small hand mattock, and placed in wet strength Kraft paper soil envelopes, marked and delivered to Rossbacher Labs of Vancouver, B.C. where they were assayed for arsenic and gold. Although additional mapping and further surveying preclude a definitive interpretation of the results of this survey, results indicate a gold geochemical anomaly in association with a conductor and an arsenic geochemical anomaly. This anomaly is centered at approximately 150E; it appears to be co-incident with the arsenic - VIF anomaly selected for control from the Tri-Con survey.



SUMMARY

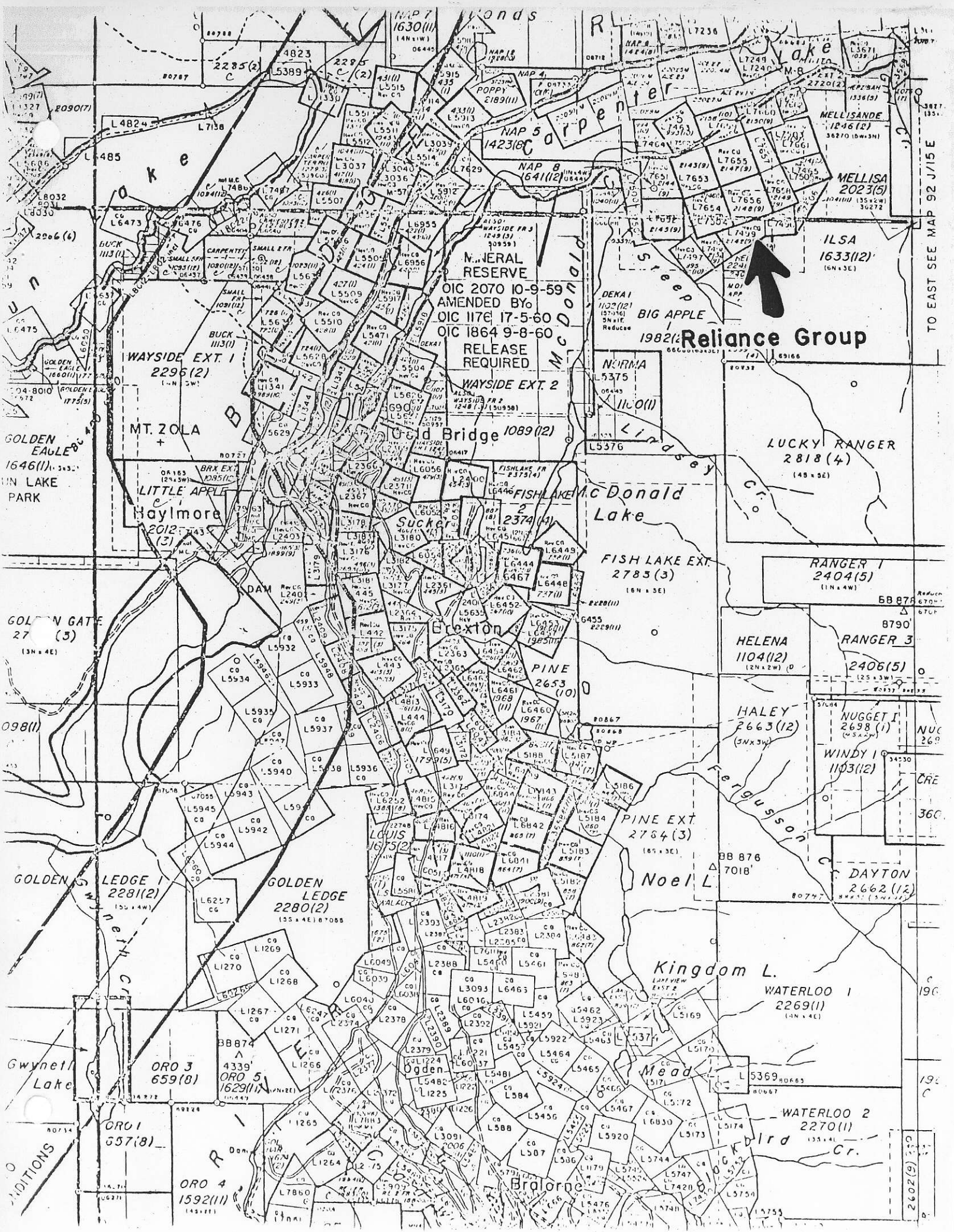
Additional mapping and further surveying preclude a definitive interpretation of the results of these surveys. Of great importance however is the new association of positive gold geochemistry co-incident with an arsenic - VIF anomaly that was originally revealed in the 1971 Tri-Con survey. The fact that high grade gold-antimony mineralization is found in the old workings on the property, that the Tri-Con survey located three areas of anomalous antimony-arsenic trends which contain values greater than those at the known mineral showings, that two of these trends have a minimum strike length of 1000 meters; and that anomalous geochemistry for gold is now associated with the first trend to be tested; significantly enhances the discovery potential of the RELIANCE Property.



Reliance Group







N. HERALD RESERVE  
OIC 2070 10-9-59  
AMENDED BY  
OIC 1176 17-5-60  
OIC 1864 9-8-60  
RELEASE REQUIRED

1982(2) Reliance Group  
BIG APPLE

LUCKY RANGER  
2818(4)  
(48 x 52)

RANGER 1  
2404(5)  
(11 x 4W)

HELENA  
1104(12)  
(2N x 2W) (D)

RANGER 3  
2406(5)  
(12.5 x 3W)

HALEY  
2663(12)  
(3N x 3W)

NUGGET 1  
2698(1)  
(4.5 x 2W)

WINDY 1  
1103(12)

DAYTON  
2662(12)  
(2.5 x 2W)

WATERLOO 1  
2269(1)  
(14N x 4E)

WATERLOO 2  
2270(1)  
(13.5 x 4E)

TO EAST SEE MAP 92 J/1/E

2602(9) 120

Map contains numerous parcel identifiers and owner names including: GOLDEN EAGLE, WAYSIDE EXT. 1, MT. ZOLA, LITTLE APPLE, Sucker, BREXTON, FISHLAKE, PINE, NOEL L., KINGDOM L., Gwynell Lake, ORO 3, ORO 5, ORO 4, BRALORNE, MELLISANDE, MELLISA, ILSA, and various 'NAP' and 'OIC' numbers.

00'

45'

30'



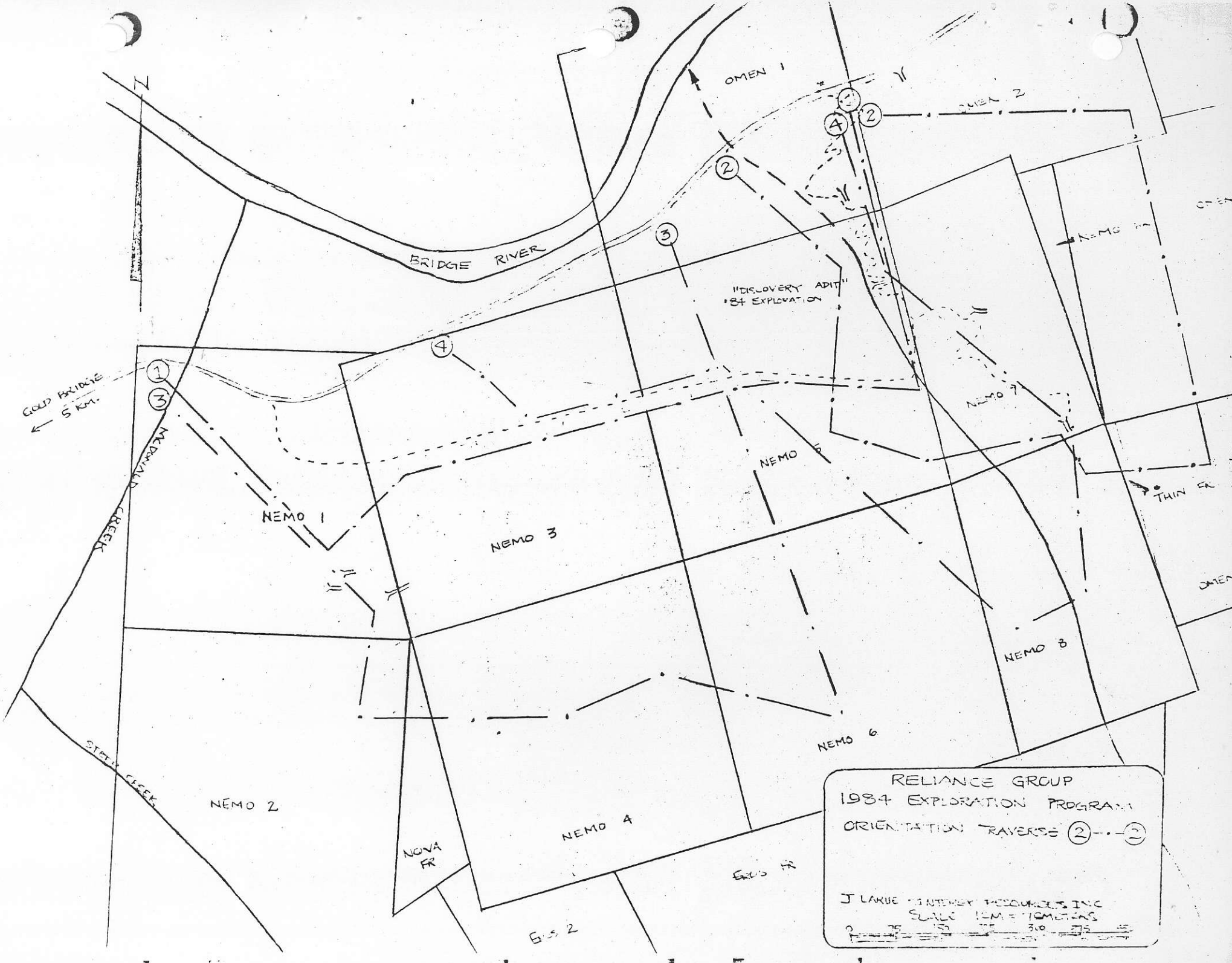
MIDDLE TRIASSIC AND (?) OLDER

BRIDGE RIVER GROUP (FERGUSSON GROUP)

1 Chert, argillite, phyllite and greenstone; minor limestone, schist;  
 1a, metamorphosed rock of map-unit 1; mainly biotite schist

### Reliance Group No 33





RELIANCE GROUP  
 1984 EXPLORATION PROGRAM  
 ORIENTATION TRAVERSE ②-②

J. LARUE ENTERPRISE RESOURCES INC.  
 SCALE: 1 CM = 10 METERS

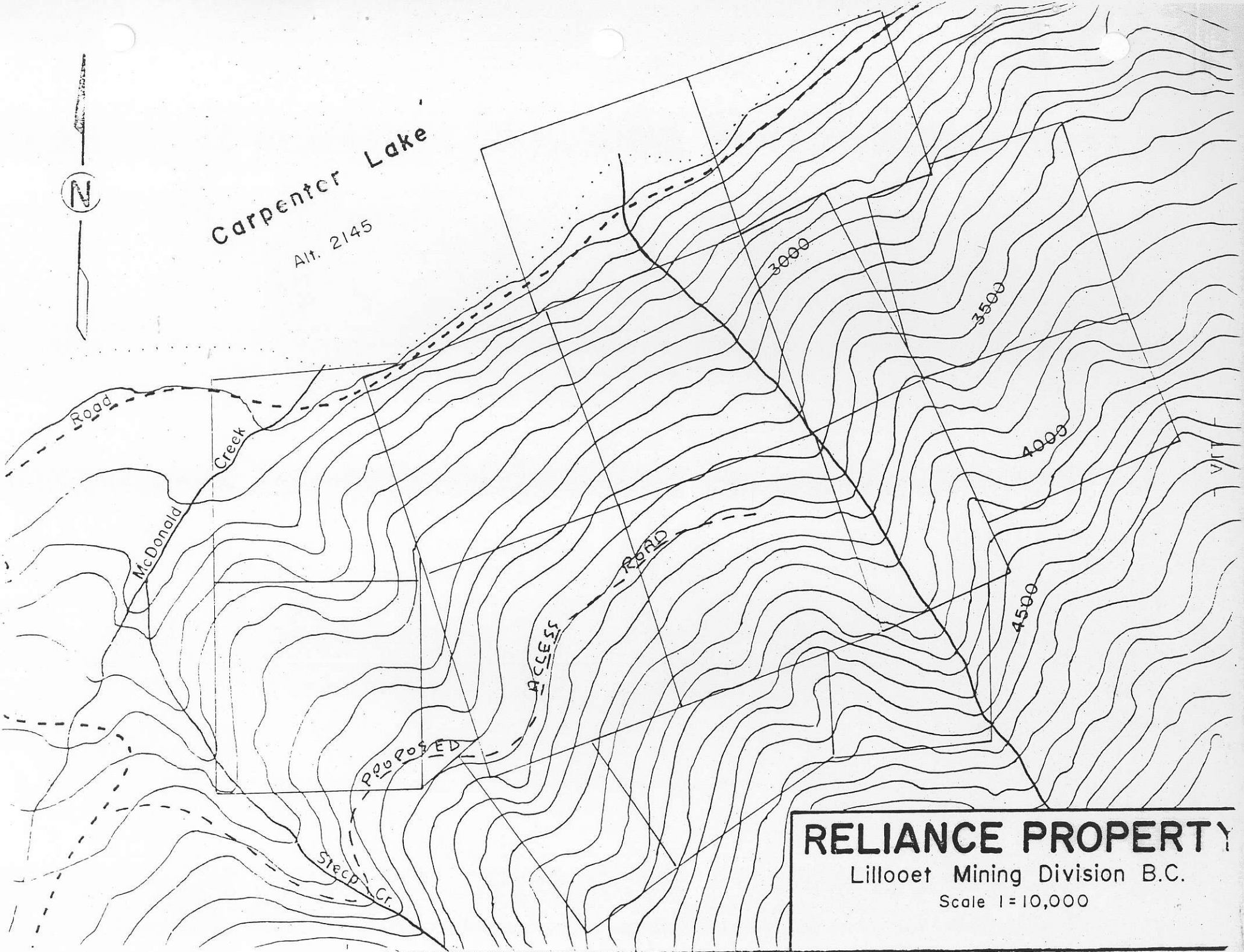
0 75 150 225 300 375





Carpenter Lake

Alt. 2145



**RELIANCE PROPERTY**

Lillooet Mining Division B.C.

Scale 1=10,000

SOIL GEOCHEMISTRY - ANALYTICAL METHODS CURRENTLY IN USE AT  
ROSSBACHER LABORATORY LTD.

Gold

10.00 Gram sample is dissolved in Aqua Regia.

The resulting solution is subjected to a Methylisobutyl  
Ketone extraction, which extract is analysed for Gold  
using Atomic Absorption Spectroscopy.

ARSENIC

0.25 Gram sample is digested with Nitric-Perchloric  
acid.

Arsenic from the solution is converted to arsine which  
in turn reacts with silver D.D.C. The resulting solution  
is analysed by colorimetry.

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : C. BOITARD  
 2245 W.13th Ave.  
 VANCOUVER, B.C.  
 PROJECT No.: RELIANCE

CERTIFICATE No.: 84397 - 1  
 INVOICE No.: 5053  
 DATE ANALYSED: SEPT.13,1984  
 FILE NAME: LW397

PRE FIX	SAMPLE NAME	FPB Au	PPM As
S	250S+ 10W	10	42
S	250S+ 20W	10	52
S	250S+ 30W	10	26
S	250S+ 40W	10	28
S	250S+ 50W	10	68
S	250S+ 60W	10	24
S	250S+ 70W	10	28
S	250S+ 80W	10	30
S	250S+ 90W	10	24
S	250S+100W	10	36
S	250S+ BL	10	210
S	250S+ 10E	50	300
S	250S+ 20E	10	50
S	250S+ 30E	10	48
S	250S+ 40E	10	46
S	250S+ 50E	10	64
S	250S+ 60E	10	46
S	250S+ 70E	10	40
S	250S+ 80E	10	6
S	250S+ 90E	10	50
S	250S+100E	10	32
S	250S+110E	10	30
S	250S+120E	30	24
S	250S+130E	10	46
S	250S+140E	10	40
S	250S+150E	10	42
S	250S+160E	10	18
S	250S+170E	10	8
S	250S+180E	10	50
S	250S+190E	10	46
S	250S+200E	10	32
S	250S+210E	10	38
S	350S+BL00	10	34
S	350S+ 10W	10	40
S	350S+ 20W	10	40
S	350S+ 30W	10	20
S	350S+ 40W	10	32
S	350S+ 50W	10	6
S	350S+ 60W	10	28
S	350S+ 70W	10	50

CERTIFIED BY :

*J. Rossbach*

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
 BURNABY, B.C. V5B 3N1  
 TEL : (604) 299 - 6910

**CERTIFICATE OF ANALYSIS**

TO : C. BOITARD  
 2245 W.13th Ave.  
 VANCOUVER, B.C.  
 PROJECT No.: RELIANCE

CERTIFICATE No.: 84397 - 2  
 INVOICE No.: 5053  
 DATE ANALYSED: SEPT.13,1984  
 FILE NAME: LW397

PRE FIX	SAMPLE NAME	PPB Au	PPM As
S	350S+ 80W	10	34
S	350S+ 90W	10	2
S	350S+100W	10	40
S	350S+ 10E	10	26
S	350S+ 20E	10	20
S	350S+ 30E	10	28
S	350S+ 40E	10	34
S	350S+ 50E	10	8
S	350S+ 60E	10	28
S	350S+ 70E	10	28
S	350S+ 80E	10	28
S	350S+ 90E	10	28
S	350S+100E	10	30
S	350S+110E	10	50
S	350S+120E	10	28
S	350S+130E	20	24
S	350S+140E	100	26
S	350S+150E	800	30
S	350S+160E	10	32
S	350S+170E	10	20
S	350S+180E	10	30
S	350S+190E	10	18
S	350S+200E	10	20
S	350S+210E	10	2
S	350S+220E	10	22
S	400S+00BL	10	32
S	400S+ 20E	10	30
S	400S+ 40E	10	28
S	400S+ 60E	10	22
S	400S+ 80E	10	12
S	400S+100E	10	28
S	400S+120E	10	30
S	400S+130E	10	20
S	400S+140E	10	16
S	400S+150E	10	4
S	400S+160E	10	4
S	400S+170E	10	16
S	400S+180E	10	20
S	400S+190E	10	20
S	400S+200E	10	30

CERTIFIED BY : *J. Rossbacher*

**ROSSBACHER LABORATORY LTD.**

2225 S. SPRINGER AVENUE  
BURNABY, B.C. V5B 3N1  
TEL : (604) 299 - 6910

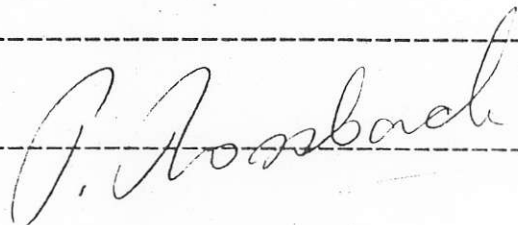
**CERTIFICATE OF ANALYSIS**

TO : C. BOITARD  
2245 W. 13th Ave.  
VANCOUVER, B.C.  
PROJECT No.: RELIANCE

CERTIFICATE No.: 84397 - 3  
INVOICE No.: 5053  
DATE ANALYSED: SEPT. 13, 1984  
FILE NAME: LW397

PRE FIX	SAMPLE NAME	FPB Au	PPM As
S	400S+210E	10	28
S	400S+220E	10	4
S	400S+230E	10	16
S	400S+240E	10	18
S	400S+250E	10	20
S	400S+260E	10	12
S	400S+270E	10	10
S	400S+280E	10	18
S	400S+290E	10	12
S	400S+300E	10	16
S	400S+310E	10	26

CERTIFIED BY :





AFFIDAVIT OF EXPENSES

Exploration work carried out in September 1984, on the RELIANCE group, Lillooet Mining Division.

Prospecting, 2 man days at \$125.00 per day	\$ 250.00
Grid preparation, 2 man days at \$125.00 per day	250.00
E.M. Survey, 2 man days at \$125.00 per day	250.00
Soil sampling, 91 samples at 3 to 4 feet apart, 3 man days at \$125.00 per day	375.00
E.M. rental	75.00
Assaying	932.75
Mobilization and demobilization, truck rental, transportation and board expenses	800.00
Report, 2 man days at \$125.00 per day	250.00
Draughting	175.00
Typing and photocopying	<u>120.00</u>
	\$3,477.75

Repectfully submitted,

Charles Boitard

# MALASPINA COLLEGE

## Statement of Course Completion

JOHN P. LARUE

has

Successfully Completed 180 Hours of Instruction  
in

MINERAL EXPLORATION FOR PROSPECTORS

PRESENTED BY B.C. MINISTRY OF ENERGY, MINES AND PETROLEUM RESOURCES  
B.C. MINISTRY OF EDUCATION

APRIL 16 to 30, 1983 - MESACHIE LAKE, B.C.

MAY 2, 1983

Dated at Nanaimo,  
British Columbia, Canada



*[Signature]*

Director / Dean

*[Signature]*

Registrar

*[Signature]*

Instructor