



Province of British Columbia

Ministry of Energy, Mines and Petroleum Resources

ASSESSMENT REPORT
TITLE PAGE AND SUMMARY

TYPE OF REPORT/SURVEY(S) PROSPECTING	TOTAL COST \$ 2096.00
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AUTHOR(S) **R.K. TAYLOR**

SIGNATURE(S)

DATE STATEMENT OF EXPLORATION AND DEVELOPMENT FILED **23 APRIL/86** YEAR OF WORK **1986**
FORD

DETAILED RESULTS **Au, Ag, Cu**

LOCALITY (TOWN/VILLAGE) (IF KNOWN) **92 I SE - 9**

MINING DIVISION **KANLOOPS** NTS **92 I - 7E**

LATITUDE **50° 29'** LONGITUDE **120° 44'**

NAMES and NUMBERS of all mineral tenures in good standing (when work was done) that form the property. Examples: TAX 14, FIRE 2 (12 units), PHOENIX (Lot 1706), Mineral Lease M 123, Mining or Certified Mining Lease ML 12 (claims involved).

FIR, 20 UNITS, REC. NR. 5613.

OWNER(S)

(1) **JOYCE WIGGINS** (2)

FILMED

MAILING ADDRESS

**Box 520, LOGAN LAKE, GEOLOGICAL BRANCH
VOK. TWO ASSESSMENT REPORT**

OPERATOR(S) (that is, Company paying for the work)

(1) **- SAME -** (2)

MAILING ADDRESS

- SAME -

15,134

SUMMARY GEOLOGY (lithology, age, structure, alteration, mineralization, size, and attitude)

Chalcoite and bormite occurs in amygdaloidal and fractured tops of porphyritic Nicola group flow rocks dipping 30 degrees northeast. Soil sample analysis returned low values of gold and silver.

REFERENCES TO PREVIOUS WORK

TYPE OF THIS	IN	EXTENT OF WORK (IN METRIC UNITS)	ON WHICH CLAIM	AL	TESTIONED
✓ GEOMORPHICAL					
Erosion					
Piling					
GEOPHYSICAL					
Ground					
Magnetic					
Microgravity					
Resistivity					
Seismometry					
Other					
Surface					
GEOPHYSICAL					
Soil					
Rock					
Soil					
DRILLING (core)					
Core					
Non-core					
RELATED TECH					
Sampling/as					
Petrographic					
Mineralogic					
Metallurgic					
PROSPECTING					
PREPARATORY					
Legal surveys (area)					
Topographic (area)					
Photogramme (scale, area)					
Transect (kilometres)					
Transect (metres)					
Transect (metres)					

30, Au, Ag

6, Au, Ag, Cu


FIR

1:4000

3.5 km

Bal - 96.00

TOTAL COST ... 2096.00

FOR MINISTRY ONLY	NAME OF PAC ACCOUNT	DEBIT	CREDIT	REMARKS:
Value of work done (report)				
Value of work or statement				
Value claimed (if account)				
Value credited to account				
Value credited to account				
Approved:  Date 5 Dec 86	Rept. No. 86-289-15134			Information Class: 4

GEOCHEMISTRY REPORT

FIR CLAIMS

1986 - 1987

- 1 Introduction to author
 - 2 Author's qualification certificate
 - 3 Geologist's qualifications and summary
 - 4 Introduction to Fir claims and access
 - 5 Location map
 - 6 Topographical map
 - 7 Sample procedure, soil disposition, sample depths and topography
 - 8 Assay procedure
 - 9 Assay procedure con't.
 - 10 Rock sample assays
 - 11 Cost breakdown
 - 12 Geochem assays
 - 13 Geochem assays con't.
 - 14 Conclusion
 - 15 Appendix
- Map #1 - last year's soil sample map with rock sample locations
- Map #2 - 1986 soil sampling map of Au and Ag samples

INTRODUCTION TO APPENDIX

R.K. Taylor

I have been prospecting for the past ten years. I am a holder of a B.C. Prospectors Certificate (see photo copy next page) and was a staff paid prospector for Granges Exploration for six years. I have done extensive prospecting in B.C., Manitoba and Saskatchewan.

A handwritten signature in dark ink, appearing to read 'R.K. Taylor', with a large, sweeping flourish extending upwards and to the right.

R.K. Taylor

SELKIRK



COLLEGE

CASTLEGAR, B. C., CANADA

COMMUNITY EDUCATION SERVICES

THIS IS TO CERTIFY THAT

KENNETH TAYLOR

HAS PARTICIPATED IN

"MINERAL EXPLORATION FOR PROSPECTORS"

156 Hour Course - May, 1981

Co-sponsored by the Ministry of Energy, Mines, and Petroleum Resources;
the Ministry of Education; and Continuing Education, Selkirk College



[Signature]
INSTRUCTOR PROGRAM COORDINATOR

[Signature]
COMMUNITY EDUCATION


April 24, 1986

This is to confirm that I, Ed Fluskey B.Sc. Geologist, supervised and consulted with Mr. Ken Taylor on the soil sampling and rock sampling of the Fir mineral claims near Logan Lake, B.C.

I am a graduate geologist of the University of Western Ontario (1975), and have been working professionally in British Columbia since July 1980 for Granges Exploration Lts. as a project geologist.

Due to the preliminary sampling done in 1985, I recommended Ken to take more samples and to sample 1 south, 2 south and 3 south, and to cut the lines while doing the sampling as geophysics may be advisable for the next step on the property. We looked at the anomalous readings from 1985 and with the exception of 4 south 2 west, all are covered with overburden. The one sample location at 4 south 2 west porphyry outcrop was sampled on the surface and read 0.13 gram per tonne Au and 0.7 gram per tonne Ag.

Yours truly,



Ed Fluskey

B.Sc. Geologist

INTRODUCTION TO FIR CLAIM
LOGAN LAKE AREA B.C.

A prospecting report on the property in 1985 brought some interesting values on the claims, not only isolated to the area of the old addit which was mined in 1914 and 30 tons of porphyry copper and silver was shipped. Also in 1985, a soil sampling project was completed that showed several geochem readings showing interesting values in Au. The property has very good access, as the new Logan Lake highway cuts through the north east corner of the claims, the old Logan Lake highway runs through at 10-S with several penetration roads on the claims. Leaving from Kamloops the property is 50 kilometers south east along the Logan Lake highway and approximately 3 kilometers east of the town of Logan Lake, B.C.

CANADA

Savona 35 km

50'

45'

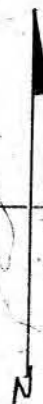
Logan Lake

Tp 18 R 21 W 6

Tp 17 R 21 W 6

PIPSEUL
INDIAN
RESERVE 3

Gas Pipeline

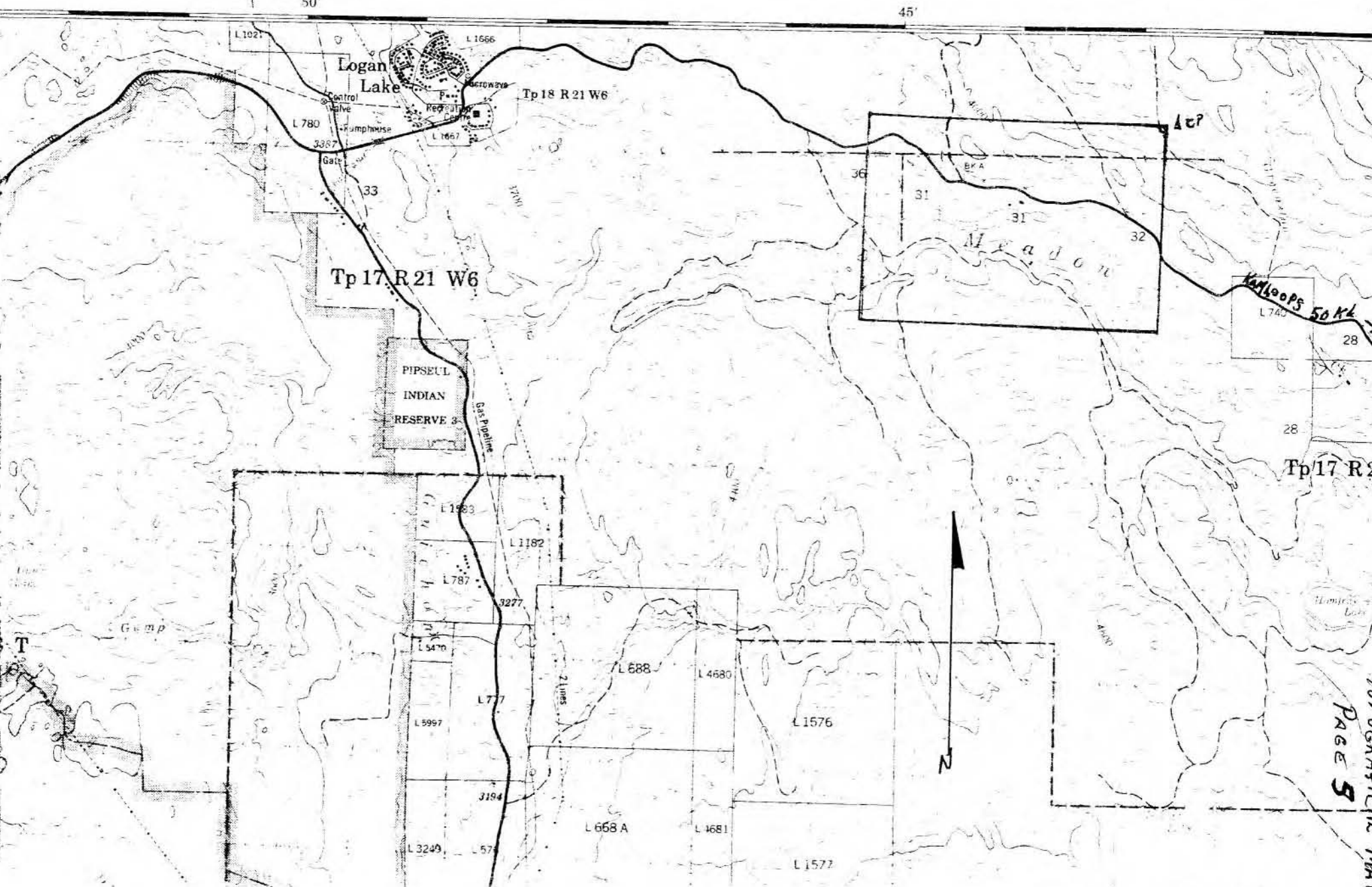


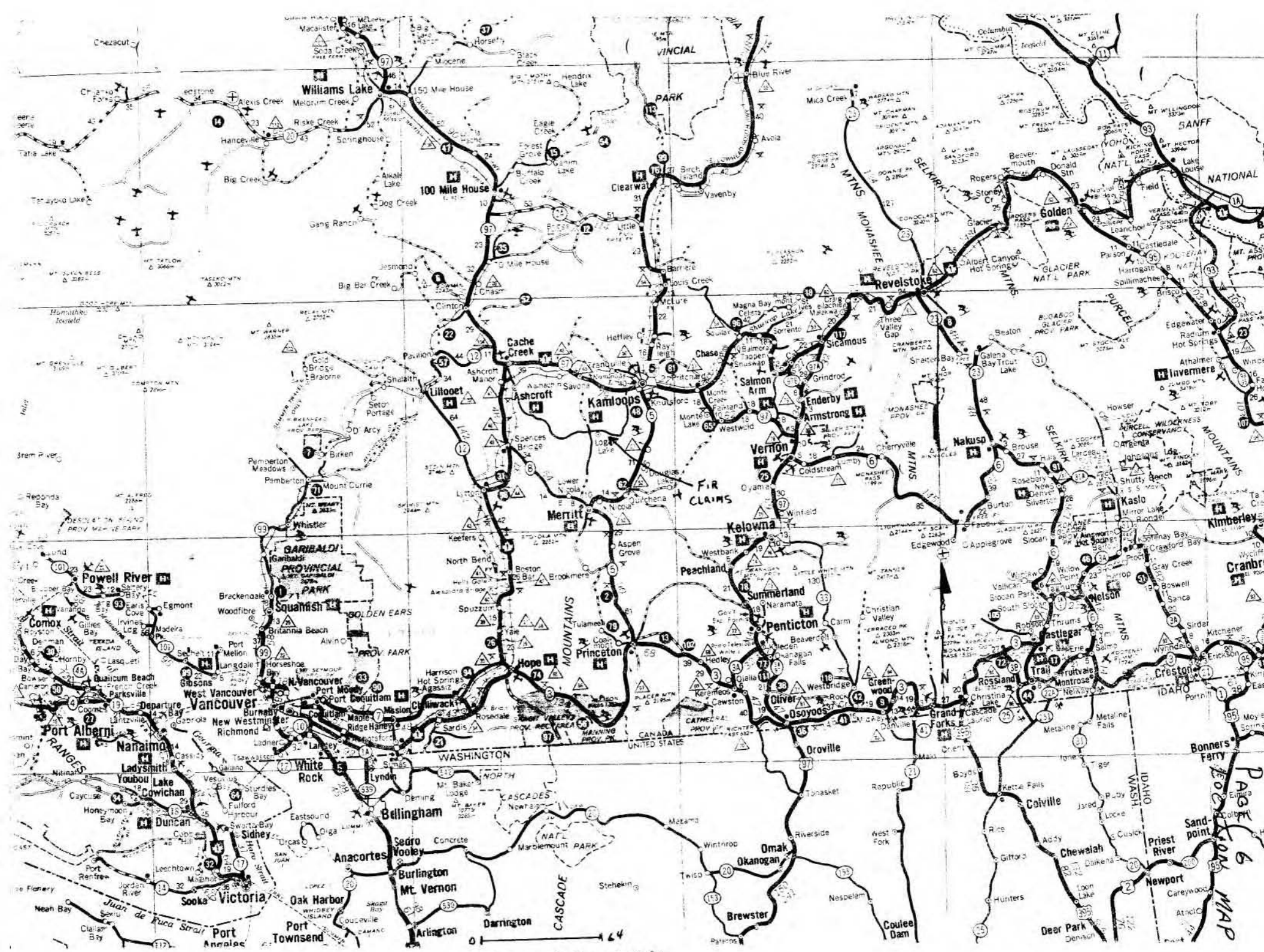
Tp 17 R 20

Karloops 50 Km

TOPOGRAPHICAL MAP
PAGE 5

SCALE 1: 50,000





1 CM = 24 KILOMETERS

MAP

SAMPLE PROCEDURES AND
GENERAL TOPOGRAPHICAL LAY OF LAND

The area sampled is mainly gentle rolling hills with bunch grass and thick jack pine growth and spruce thickets in the low lying areas and some deciduous growth in the low areas as well. Samples were taken by myself (author) with Mr. Fluskey's supervision. Survey lines were run from the established base line from 1985 project and were cut, blazed, ribboned and chained with 50 meter chain for accuracy. The soil samples were taken from an average depth of 10 cm and placed in standard kraft paper soil bags, all samples were from "P" horizon soil. The samples were of a tan color, slightly sandy soil with all pebbles being disregarded as the samples were collected. They were then taken to Kamloops, hung a few days to dry and then taken to Eco-Tech labs for assay.

All rock samples were taken from out crops (as shown on map #1). All samples were in porphyry out crops, with 3457-C and 3458-C being a finer grained porphyry as apposed to the rest of the samples to north and west all being coarser with quartz lenses throughout.

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393GEOCHEMICAL LABORATORY METHODSSAMPLE PREPARATION

1. Soil or sediment samples are dried at 60°C, the lumps of soil are broken up on a bucking board and the entire sample is sieved through an 80 mesh screen.
2. Rock samples are crushed and pulverized to -100 mesh.

GEOCHEMICAL ANALYSIS FOR Cu, Pb, Zn, Ag, Sb, Ni, Co, Cd

1.0 gram of sample is leached in 3 ml HNO₃ overnight at room temperature. The sample is brought up to 90°C in a water bath, 1.5 ml HCl is added, and the leaching is continued for a further 90 minutes. The sample is then cooled, diluted to 10 ml with distilled water and the above elements are determined by Atomic Absorption.

Minimum Reportable Concentrations

<u>Element</u>	<u>ppm</u>
Cu	1.
Pb	2.
Zn	1.
Ag	0.2
Sb	1.
Ni	2.
Co	2.
Cd	0.02

GEOCHEMICAL ANALYSIS FOR Au

The gold is collected in a silver bead through inquartation and conventional fire assaying of 10 grams of material. The bead is digested in aqua regia in a water bath at 90°C, the gold is then extracted into MIBK and determined by Atomic Absorption.

Minimum Reportable Concentration 5 ppb

.../2

GEOCHEMICAL ANALYSIS FOR As

0.25 gram of sample are taken to dryness in a mixture of HNO_3 and HClO_4 . Excess HNO_3 is expelled with HCl and the arsenic is scrubbed into a solution of pyridine and SnCl_2 to be determined colorimetrically on a spectrophotometer.

Minimum Reportable Concentration 1 ppm

10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048 8393

July 10, 1985

CERTIFICATE OF ANALYSIS

CLIENT: Granges Exploration Ltd.
1110 - 625 Howe Street
VANCOUVER, B.C.
V6Z 2T6

Analyst: George Zblinoff

SAMPLE IDENTIFICATION: 3456-3461 samples received July 5, 1985

CERTIFICATE OF ANALYSIS NUMBER: ETK 85-34

<u>Description</u>	<u>Au (g/tonne)</u>	<u>Ag (g/tonne)</u>	<u>Cu (%)</u>
3456 C	0.11	0.4	<0.01 ✓
3457	0.05	0.4	0.01 ✓
3458	0.02	7.6	2.85 ✓
3459	0.07	1.2	-
3460	0.40	0.7	- ✓
3461	0.13	0.7	- ✓

NOTE: < = less than

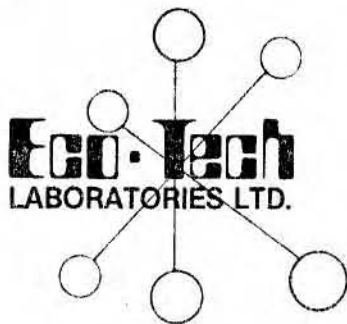
Thomas J. Fletcher
ECO-TECH LABORATORIES LTD.
Thomas J. Fletcher, B.Sc.
Chief Assayer

ECO-TECH LABORATORIES LTD.

BERNABY

COST BREAKDOWN

3.5 kilometer cut line and chained	\$ 900.00
Geological consulting	364.00
Assaying costs - Au & Ag	352.00
Ribbon and sample bags	30.00
Truck costs - 8 trips at \$25. each	
July 4 & 5, 1985	
April 21 - 25 & 28, 1986	200.00
Wages for assistant:	
Mr. Judd Wiggins	200.00
Clerical	50.00
	<hr/>
TOTAL	\$2,096.00



10041 E. Trans Canada Hwy., R.R. #2, Kamloops, B.C. V2C 2J3 Phone (604) 573-5700
Telex: 048-8393

May 2, 1986

CERTIFICATE OF ANALYSIS

CLIENT: J. K. Exploration Services
1040 Kemano Drive
KAMLOOPS, B. C.
V2B 2T6

ATTENTION: Ken Taylor

SAMPLE IDENTIFICATION: 30 soil samples received April 29, 1986 for
geochemical analyses

CERTIFICATE OF ANALYSIS NUMBER: ETK 86-16

<u>ET#</u>	<u>Description</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>
16-1	1S 1W	<5	0.3 ✓
2	2W	<5	0.4 ✓
3	3W	<5	0.3 ✓
4	4W	<5	0.4 ✓
5	5W	<5	0.1 ✓
16-6	1S 6W	<5	0.3 ✓
7	7W	<5	0.5 ✓
8	7W	<5	0.4 ✓
9	8W	<5	0.3 ✓
10	9W	<5	0.4 ✓
16-11	1S 10W	5	0.2 ✓
12	12W	<5	0.3 ✓
13	14W	<5	0.2 ✓
16-14	3S 1W	<5	0.2 ✓
15	2W	5	0.1 ✓
16	3W	<5	0.3 ✓
17	4W	<5	0.2 ✓
18	5W	<5	0.5 ✓
19	6W	5	0.3 ✓
20	7W	<5	0.4 ✓


J. K. Exploration Services

- 2 -

May 2, 1986

<u>ET#</u>	<u>Description</u>	<u>Au (ppb)</u>	<u>Ag (ppm)</u>
16-21	3S 8W	5	0.4 ✓
22	9W	<5	0.2 ✓
23	10W	<5	0.3 ✓
24	12W	<5	0.3 ✓
25	13W	5	0.5 ✓
16-26	3S 14W	15	0.4 ✓
16-27	9+75S 4W	<5	0.2 ✓
28	10S 3+75W	<5	0.3 ✓
29	10S 4+75W	<5	0.3 ✓
30	10+25S 4W	<5	0.2 ✓

NOTES: < = less than


 ECO-TECH LABORATORIES LTD.
 Thomas J. Fletcher, B.Sc.
 Chief Assayer

TJF/mil

CONCLUSION OF 1986 GEOCHEMISTRY
AND ROCK SAMPLING

The rock samples are holding consistant values. The soil samples are not showing high readings, but the fluxuation in assays coincide with the strike of rock where it is exposed.

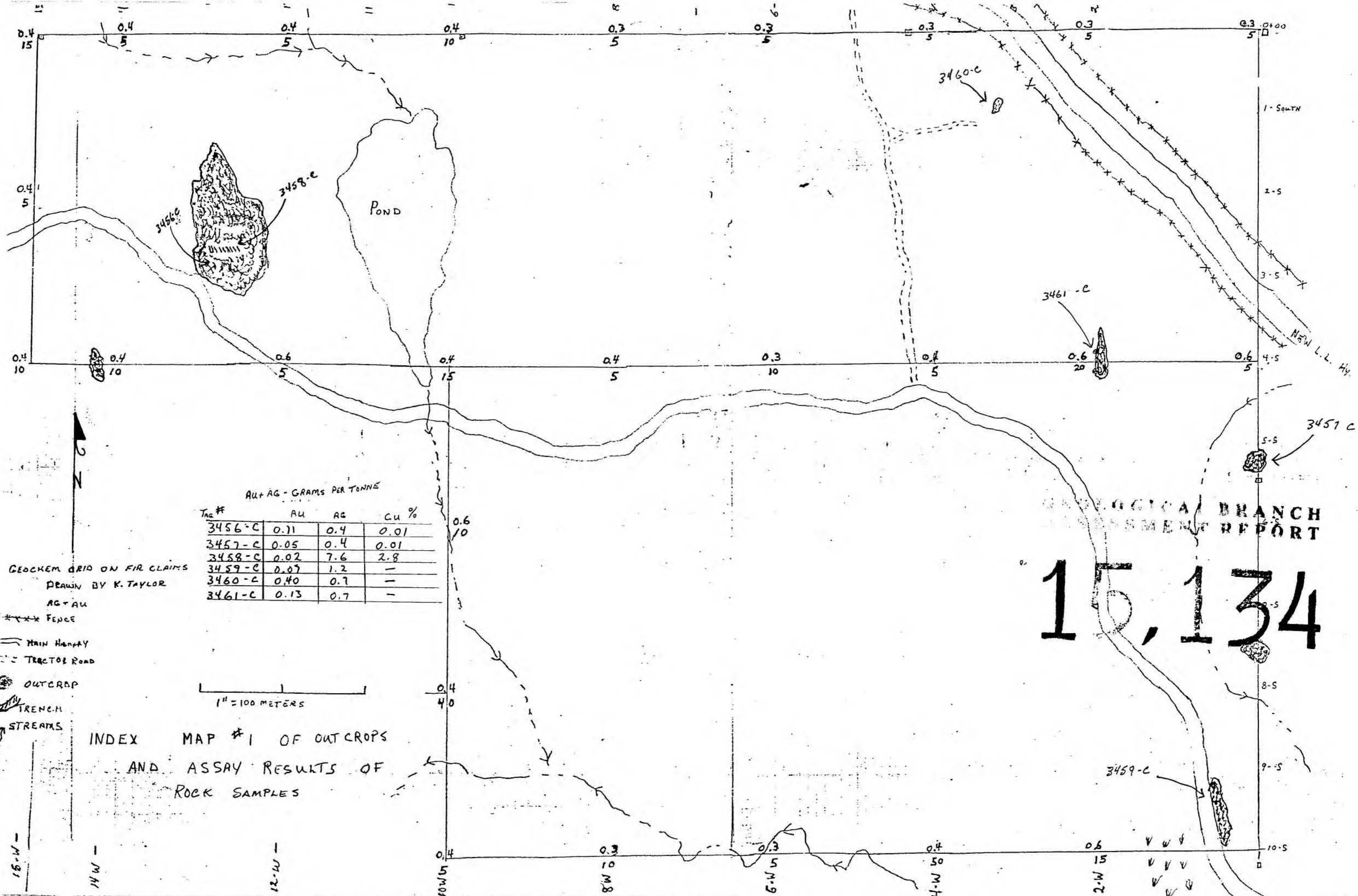
Mr. Fluskey and myself consulted over the maps after the results were plotted, and believe that these soil values are leading us to the higher rock values. All rock samples to date are close to the surface as no major trenching has been done. This is a consideration for the 1986 - 1987 program. The other thing strongly recommended by Mr. Fluskey, was a VLF survey, which the lines were cut for the same this year. After a VLF survey is done, targets may be trenched and more rock samples taken as a lot of the higher geochem samples are in heavy overburden areas.

The property is very similar to a lot of porphyry properties currently operating in Nevada and Arizona on heap leaching projects. If values could be proven, this property could operate on a heap leach program very economically due to it's extremely easy access and topography.

Yours truly,



R.K. Taylor



AU+AG - GRAMS PER TONNE

TAG #	AU	AG	CU %
3456-C	0.11	0.4	0.01
3457-C	0.05	0.4	0.01
3458-C	0.02	7.6	2.8
3459-C	0.07	1.2	-
3460-C	0.40	0.7	-
3461-C	0.13	0.7	-

GEOCHEM GRID ON FIR CLAIMS
DRAWN BY K. TAYLOR

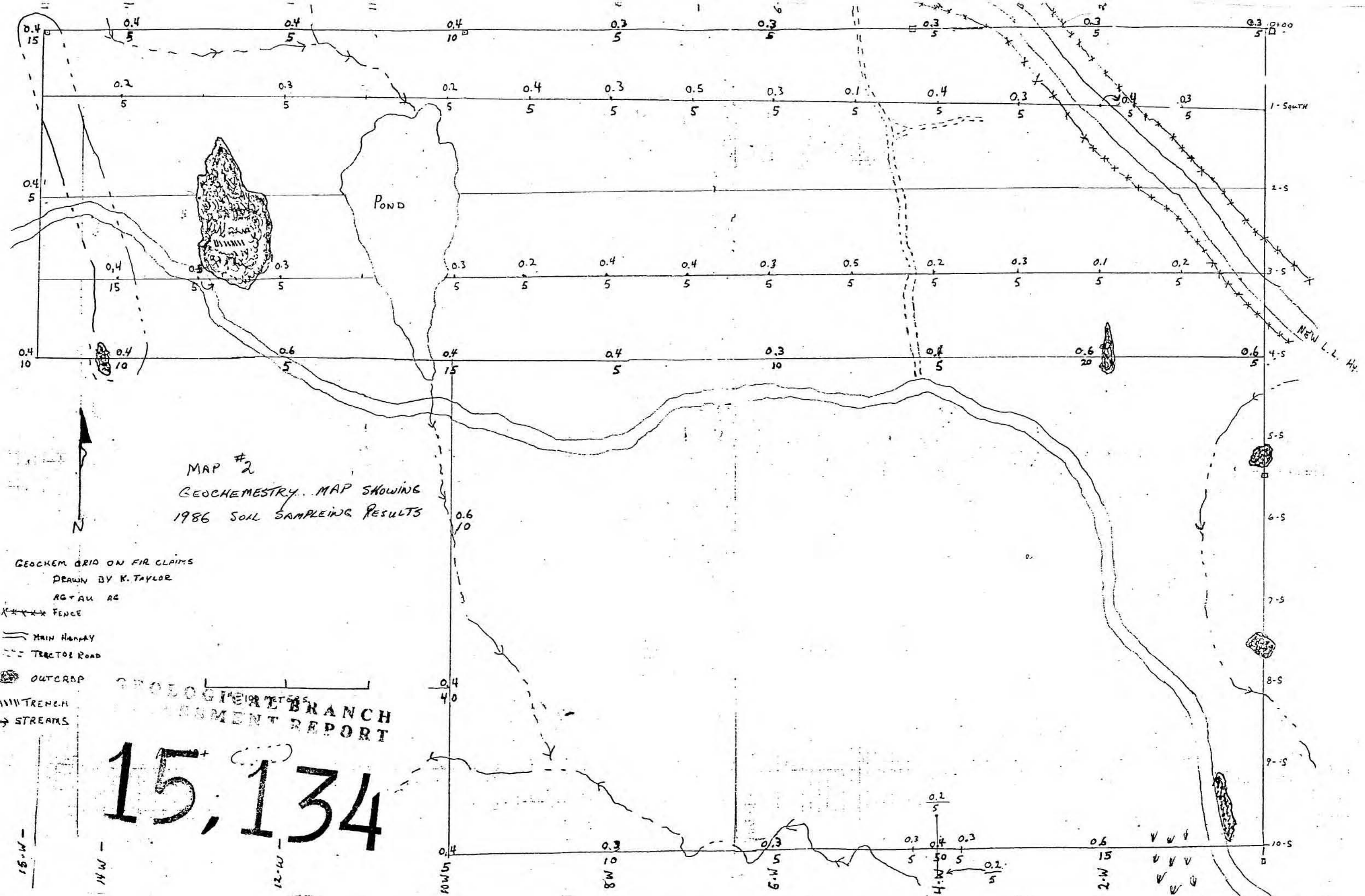
- AG+AU
- *** FENCE
- MAIN HAULWAY
- - - TRACTOR ROAD
- ⊙ OUTCROP
- TRENCH
- ↑ STREAMS

1" = 100 METERS

INDEX MAP #1 OF OUTCROPS
AND ASSAY RESULTS OF
ROCK SAMPLES

GEOLOGICAL BRANCH
REPORT

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MAP #2
GEOCHEMISTRY. MAP SHOWING
1986 SOIL SAMPLING RESULTS

GEOCHEM GRID ON FIR CLAIMS
DRAWN BY K. TAYLOR

- AG+AU AG
- X*** FENCE
- MAIN HARBAY
- - - TRACTOR ROAD
- OUTCRAP
- |||| TRENCH
- STREAMS

GEOLOGICAL BRANCH
ASSESSMENT REPORT

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15-W
14-W
12-W

10-W
8-W
6-W
4-W
2-W
10-S
9-S
8-S
7-S
6-S
5-S
4-S
3-S
2-S
1-S