

RECEIVED

OCT 26 1995

**Gold Commissioner's Office
VANCOUVER, B.C.**

GEOLOGICAL SURVEY BRANCH
ASSESSMENT REPORTS

DATE RECEIVED

NOV 23 1995

**GEOPHYSICAL REPORT
ELECTROMAGNETIC SURVEY
OVER
WOLF CLAIMS
CAMPBELL RIVER AREA
MINING DIVISION**

NANAIMO

BRITISH COLUMBIA

JUNE 1995

FILMED

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

24,089

PROPERTY:

The Wolf claim group is located beside Quinsam coal mine
23 km southwest of Campbell River on Vancouver Island,
B.C.
N.T.S. 92F14/W
Longitude 125° 26' latitude 49° 55'

WRITTEN FOR:

AURIZON MINES LTD.
1414 - 700 West Georgia Street
P.O. Box 10016, Pacific Centre
Vancouver, B.C. V7Y 1A3

WRITTEN BY:

J.P. Loielle
Box 1003, Station A
Vancouver, B.C. V6C 2P1

DATED:

July 10, 1995

TABLE OF CONTENTS

SUMMARY.....	1 /
INTRODUCTION	2 /
LOCATION AND ACCESS	3 /
GEOLOGY.....	3 /
ELECTROMAGNETIC SURVEY	4 /
INSTRUMENTATION AND THEORY	
INTERPRETATION OF VALUES	
FIELD EXAMPLES	
FIELD PROCEDURE.....	5 /
COMPILATION OF DATA.....	5 /
GEOCHEMICAL SURVEY	5 /
RESULTS.....	6 /
CONCLUSION.....	7 /
PROPOSED EXPLORATION PROGRAM.....	8 /

APPENDIX

STATEMENT OF COST	I /
ITEMIZED COST STATEMENT	
GEOPHYSICAL SURVEY	
GEOCHEMICAL SURVEY	II /
STATEMENT OF QUALIFICATION	III /

LIST OF ILLUSTRATIONS APPENDED

	Fig. #
LOCATION AND ACCESS MAP	1
MINERAL TITLES REFERENCE MAP	2
MAGNETIC SUSCEPTIBILITY LOCATION MAP	3
PROSPECTING MAP / LOCATION OF SAMPLES	4
AEROMAGNETIC SURVEY	5
STRUCTURAL INTERPRETATION	6
MAGNETIC SUSCEPTIBILITY LINEAR PERSPECTIVE	7
ELECTROMAGNETIC SURVEY NUMERICAL RESPONSES	8
CERTIFICATE OF ANALYSIS	9
PROPOSED EXPLORATION PROGRAM LOCATION MAP	10

SUMMARY

Argonaut Company Limited carried out an aeromagnetic survey in 1952 over the Quinsam area. I used an electromagnetic instrument to locate the mag anomaly. The BM-IV is an electromagnetic instrument which efficiently detects conductive and magnetic outcrop or boulders hidden to a depth of 1.5 meters.

The results, as indicated on the numerical responses map and linear perspective map, are highly anomalous and could reflect sulphide mineralization hidden in the bedrock.

I strongly recommend detailed geophysical and geochemical surveys on the northern part of the Wolf claims (see proposed exploration program map). If we are looking for gold in structural fractures or fault near skarn type deposits, the northern parts of the Wolf claim show several lineations which suggest major faults.

INTRODUCTION

This geophysical report discusses the instrumentation, theory, survey procedure, compilation of data and interpretation of values. It also compares the geophysical and geochemical anomalies.

The Wolf claims consist of 20 units to cover the Iron River, skarn deposit and several significant aeromagnetic anomalies.

Located approximately in the centre of the Wolf claim group are two skarn-type ore deposits with a total of 5,188,000 tons of magnetite mineralization (Durek and Nordin, 1972).

The area is underlain by upper Karmutsen (volcanic) Quatsino formation (limestone) and early triassic Bonanzo formation.

LOCATION AND ACCESS

The Wolf claim group is located 23 km west-south-west of Campbell River beside the Quinsam coal mine. Travelling time is approximately 35 minutes from Campbell River by car.

To reach the property use Highway #28 (which goes to Gold River) for approximately 12 miles. Turn left on Argonaut Road and left again at Quinsam coal mine. Go to Middle Quinsam lake, pass the creek, then turn left and drive to the end of the main logging road.

GEOLOGY

The following geological description is from Durek and Nordin (1972) and Dasler (1986).

Most of the exposed pre-intrusive rocks are of the Vancouver group. Magnetite and skarn minerals appear to have replaced the triassic Karmutsen formation (volcanic of andesitic flows, tuffs etc.). The Quatsino formation (limestone) is exposed northwest of the skarn deposits.

ELECTROMAGNETIC SURVEY

INSTRUMENTATION AND THEORY:

A BM-IV is a miniaturized electromagnetic survey instrument, manufactured by Instrumentation G.D.D. Inc. of Ste-Foy, P. Québec. This instrument is designed to measure the intensity or quantity of magnetite in outcrop or boulders and can detect conductive zones down to 1.5 meters of overburden. A large bright dot matrix LCD displays clear, readable, simultaneous measurements of the conductivity and susceptibility (magnetite content) of the underlying material.

There is a separate adjustable threshold audio alarm to signal magnetite or a conductor. The instrument has continuous ground coverage with 10 readings per second.

INTERPRETATION OF VALUES:

Due to magnetite and water in the ground, the readings generally range from -50 to -200 for magnetite and 0 to 100 for conductivity (not significant under 150). Pyrrhotite and graphite can be good conductors. The ol/dh ratio on the dot matrix LCD display gives a relative value of conductivity to each conductor.

The BM-IV model can detect magnetite and conductors at the same time. The high-pitched and low-pitched alarms will be heard with respective negative (dh mag) and positive (ol) values. A red light will flash confirming the presence of a conductor.

Concerning the magnetite content, Instrumentation G.D.D. Inc.'s calibration of the BM-IV instrument indicates that a mag of -1000 gammas corresponds to 1% magnetite. It is measured on a 1 cubic meter volume under the probe.

FIELD EXAMPLES:

Sample No: W-08 (volcanics), mag: -1200
I.C.P. Analysis: Cr: 95 ppm, Cu: 397 ppm, Fe: 3.75%

Sample No: W-09 (volcanics), mag: -1,000 to -2,000
I.C.P. Analysis: Au FA & AA: 15 ppb, Cu: 632 ppm, Fe: 5.01%

Sample No: W-11 (volcanics), mag: -1,000 to -5,000
I.C.P. Analysis: AU FA & AA: 10 ppb, Cu: 329 ppm, Fe: 4.94%
Sample does not have much visible mineralization on the surface; it is in the bedrock.

FIELD PROCEDURE

The survey is located in the northern part of the Wolf claim group. It is done close to the East-West claim line. Each station is identified by flagging.

Anomalous readings were identified by flagging.

COMPILATION OF DATA

The BM-IV results were plotted with lines to form diagrams with linear perspective which show anomalous areas.

On the maps, magnetic susceptibility readings are plotted with lines at the following scale:

- 1 cm = 1,000 gammas or 1% magnetite
 - 2 cm = 2,000 gammas or 2% magnetite
 - 3 cm = 3,000 gammas or 3% magnetite
 - 4 cm = 4,000 gammas or 4% magnetite
- and so on.

GEOCHEMICAL SURVEY

Five rock samples were collected west-north-west of the ore deposit in a siltstone which, on I.C.P. analysis, showed a traces of Cu, Fe, As, Au, Mo, and Pb mineralization.

Eight more rock samples were collected in the northern part of the Wolf claim group near the claim line.

We can see that all samples in the volcanics are located on top of strong electromagnetic anomalies (W-08 to W-13) which show only traces of mineralization in I.C.P. analysis and Au FA+AA.

The BM-IV detects mineralization underneath the surface. In order to see this mineralization we would have to blast or drill those outcrops.

RESULTS

The most important area to study is located north-east of the Wolf claim group at least 400 to 500 feet above the Iron River, on or near the top of the hill.

The mineralization doesn't seem to have been eroded by the last glaciation as it is very hard to find mineralization on the surface of outcrops.

Visually, the volcanics appear to have undergone the right alteration process (epidotization). They are greenish and have vesicles. In some areas garnet and magnetite were found. Any mineralization is definitely beneath the surface.

CONCLUSION

The BM-IV survey has revealed several very high readings over a large area. Line A is located at least 100 meters from line B. From the interpretation of air photos and topographic maps we can see interesting intersections of lineations or lineaments with rectilinear topographic features which could represent faults or geological structures. Those lineations are quite close of the anomalous zone.

I have tested the BM -IV instrument near and on top of the Iron Hill and Iron River skarn deposits. These skarn deposits give similar responses to lines A-B-C-D.

The magnetite content is so high that it may be masking a conductive pyrrhotitic zone which could be gold bearing. Geological structures located near BM-IV anomalous zones could carry sulfide mineralization.

PROPOSED EXPLORATION PROGRAM

I strongly recommend a detailed and systematic exploration program over an area of approximately 1.5 km by 2 km (see proposed exploration program location map).

There is good exposure of outcrops in this area, and I suggest a ground geological survey with detailed petrographic analysis.

We will need lines at 50 meter intervals for a better geophysical survey. I recommend a BM-IV survey to pinpoint near surface mineralization and also an I.P. survey to locate deeper structures.

A systematic geochemical survey could help us better understand the migration of elements and locate abnormal concentrations of precious metal elements.

Pending the results of the above exploration surveys we will be able to define structures with potential precious metal targets, and establish a drilling program.

APPENDIX

STATEMENT OF COST	I
ITEMIZED COST STATEMENT GEOPHYSICAL SURVEY GEOCHEMICAL SURVEY	II
STATEMENT OF QUALIFICATIONS	III



Exploration Services

J. P. Loiseau

APPENDIX I

STATEMENT OF COST

Field technicians	\$1,750.00
Room and board	1,400.00
Transportation	
Truck rental, insurance and maintenance	976.31
Supplies	41.59
Sample Analysis	284.05
Equipment rental	274.40
Report drafting interpretation and compilation	600.00
Consultant fees	<u>800.00</u>
Total	<u>\$6,126.35</u>

APPENDIX II

ITEMIZED COST STATEMENT

GEOPHYSICAL SURVEY:

Geophysical technicians	1 @ \$150.00/day x 5days	
	1 @ \$100.00/day x 5days	\$1,250.00
Room and board (\$100.00/day)	2 @ \$100.00/day x 5	1,000.00
Transportation, truck rental		697.36
Survey supplies		29.70
Equipment rental		274.40
Report, drafting, interpretation, and compilation		450.00
Consultation fees		<u>600.00</u>
		<u>\$4,301.46</u>

GEOCHEMICAL SURVEY:

Field technicians	1 @ \$150.00/day x 2 days	
	1 @ \$100.00/day x 2 days	500.00
Room and board	2 @ \$100.00/day x 2 days	400.00
Transportation, truck rental		278.95
Supplies		11.89
Sample Analysis		284.05
Report, drafting, interpretation, and compilation		150.00
Consultation		<u>200.00</u>
		<u>\$1,824.89</u>

Geophysical and geochemical surveys total \$6,126.35



Exploration Services

J. P. Loiselle

APPENDIX III

STATEMENT OF QUALIFICATIONS

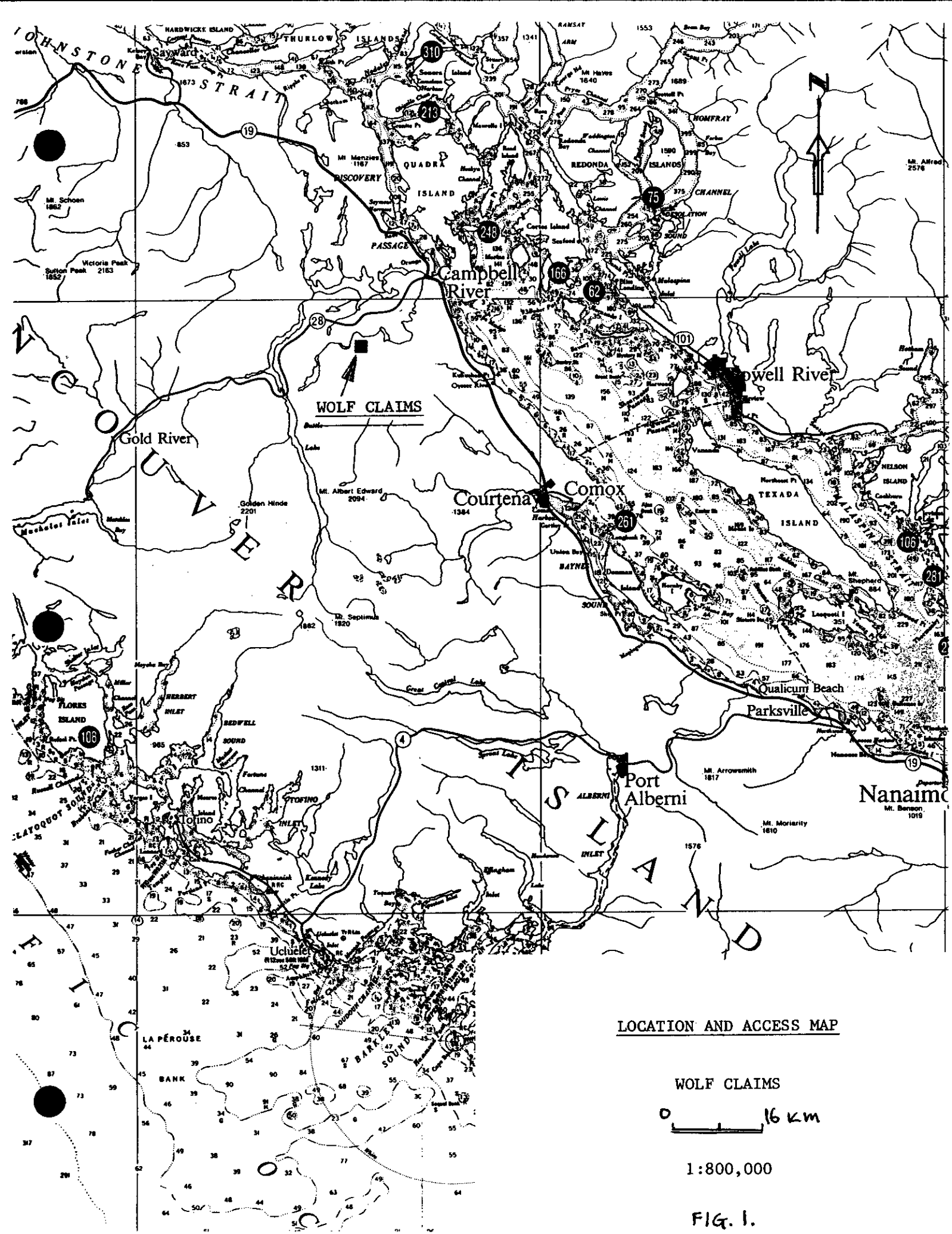
I, J-P Loiselle, Vancouver, British Columbia, hereby certify that;

I graduated from the following mineral exploration courses:

- 1970 Ecole Polytechnique de Montreal
- 1973-74 C.I.P.R.A. CEA Razes France
- 1985 B.C. and Yukon Chamber of Mines, Vancouver, B.C.
- 1986 B.C. Government, Mesachie Lake, Vancouver Island, B.C.

I have worked in mineral exploration since 1970, for several mining companies in Canada and the United States.

J-P Loiselle
Dated at Vancouver, B.C.,
This: July 10, 1995



LOCATION AND ACCESS MAP

WOLF CLAIMS

0 16 km

1:800,000

FIG. 1.

125°30'00"
50°00'00"

32316

NORTH BOUNDARY ESQUIMALT AND CAMPBELL

MINERAL TITLES REFERENCE

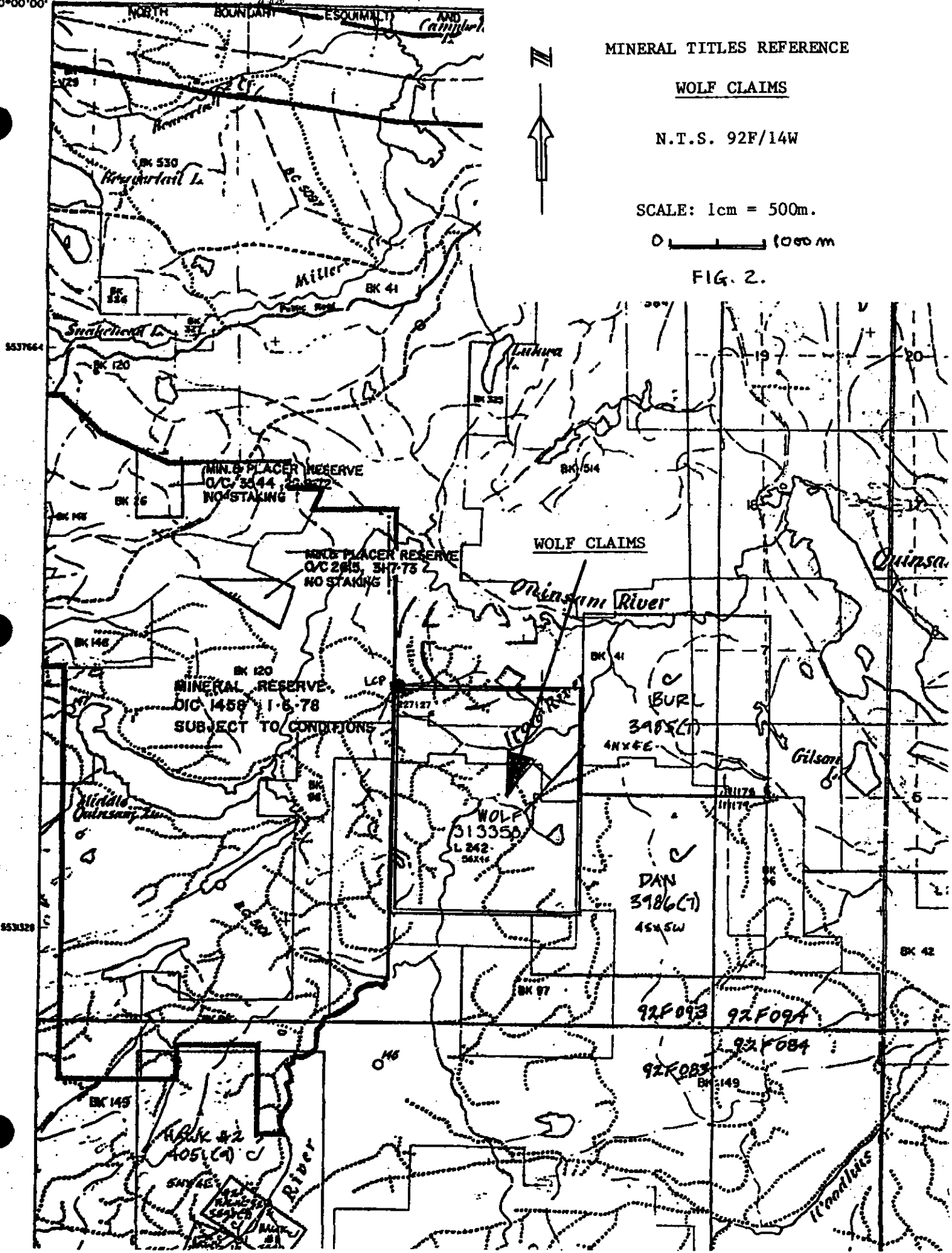
WOLF CLAIMS

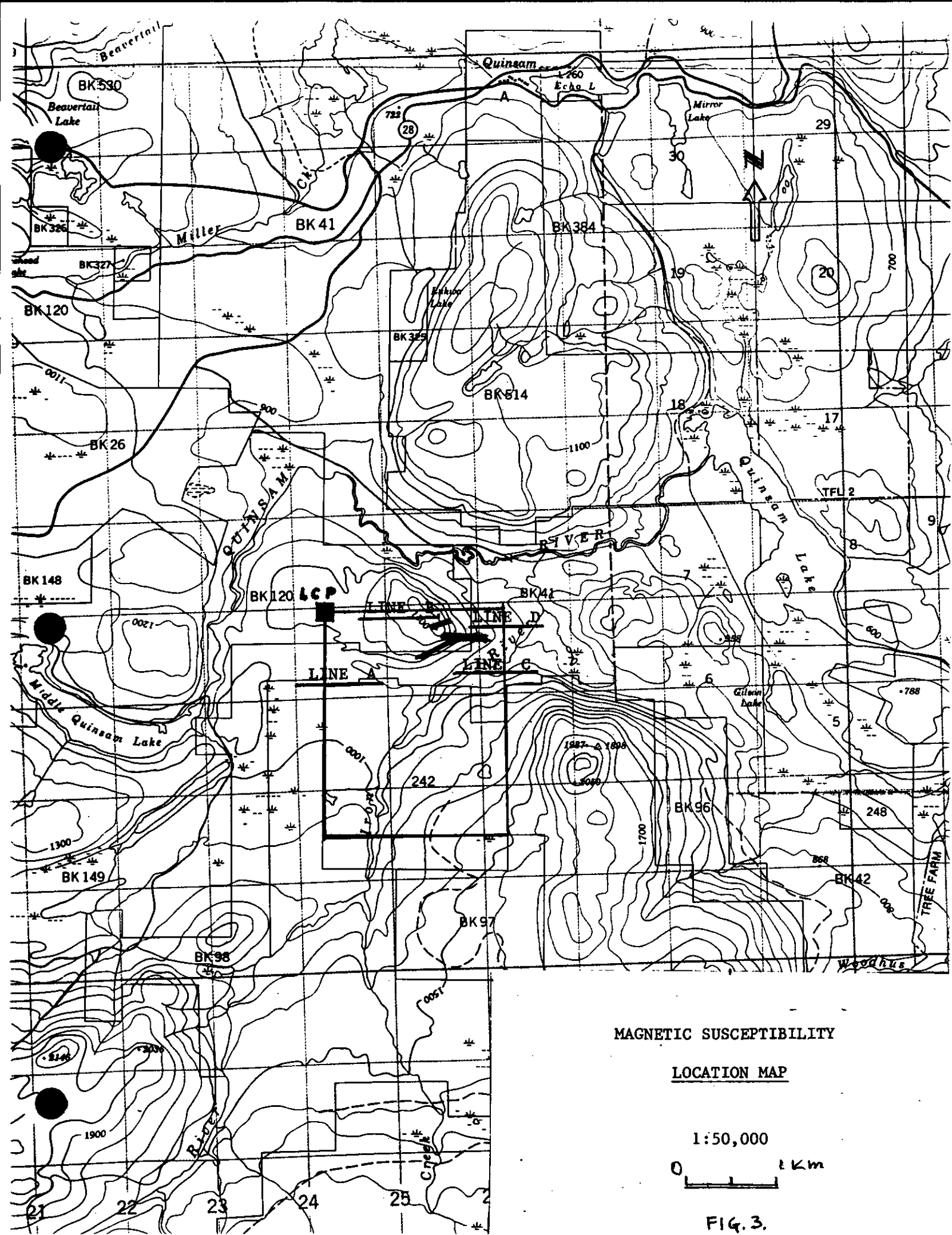
N.T.S. 92F/14W

SCALE: 1cm = 500m.

0 1000m

FIG. 2.





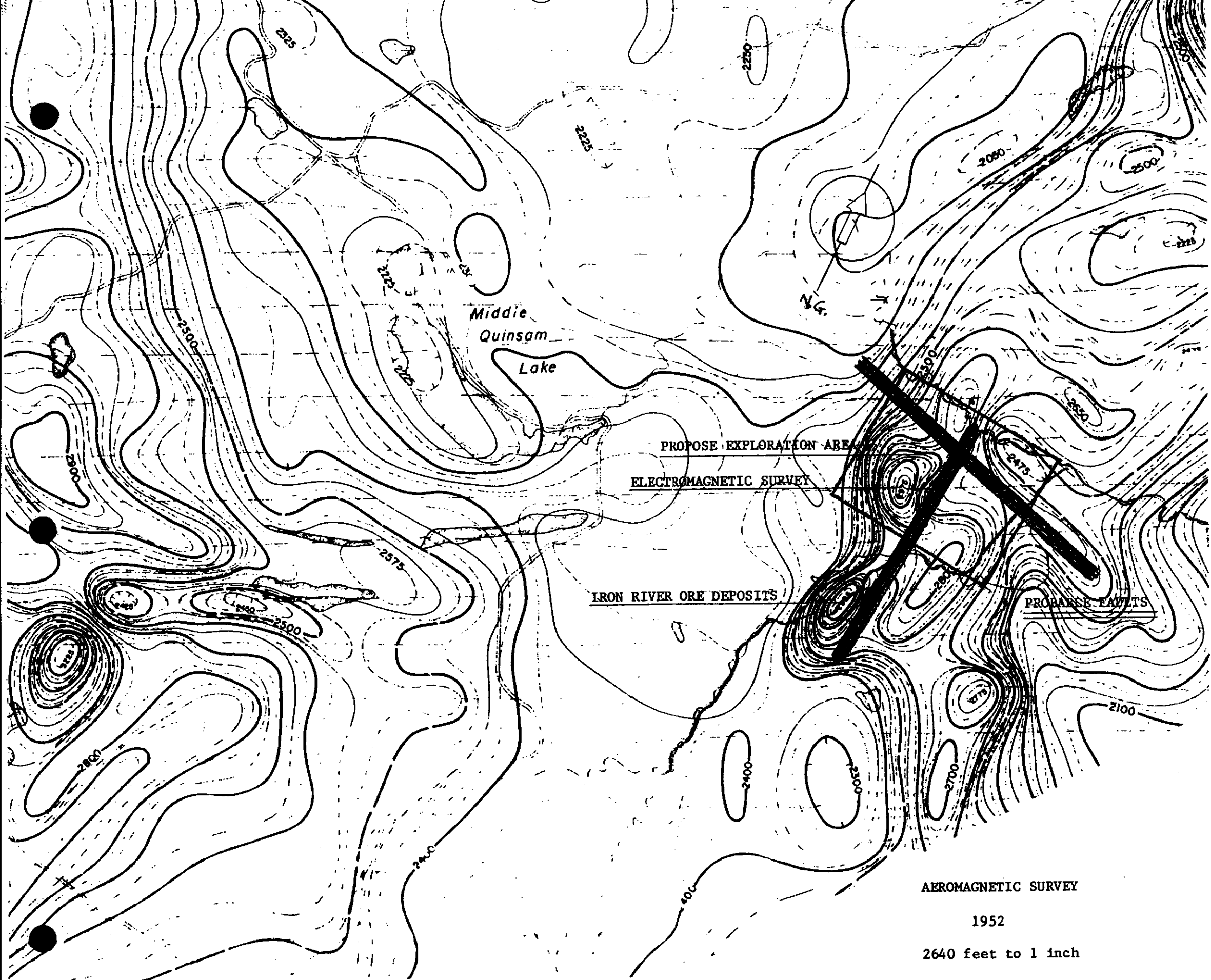
MAGNETIC SUSCEPTIBILITY

LOCATION MAP

1:50,000



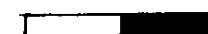
FIG. 3.



AEROMAGNETIC SURVEY

1952

2640 feet to 1 inch



1/2 MILE (804.67M)

FIG. 5

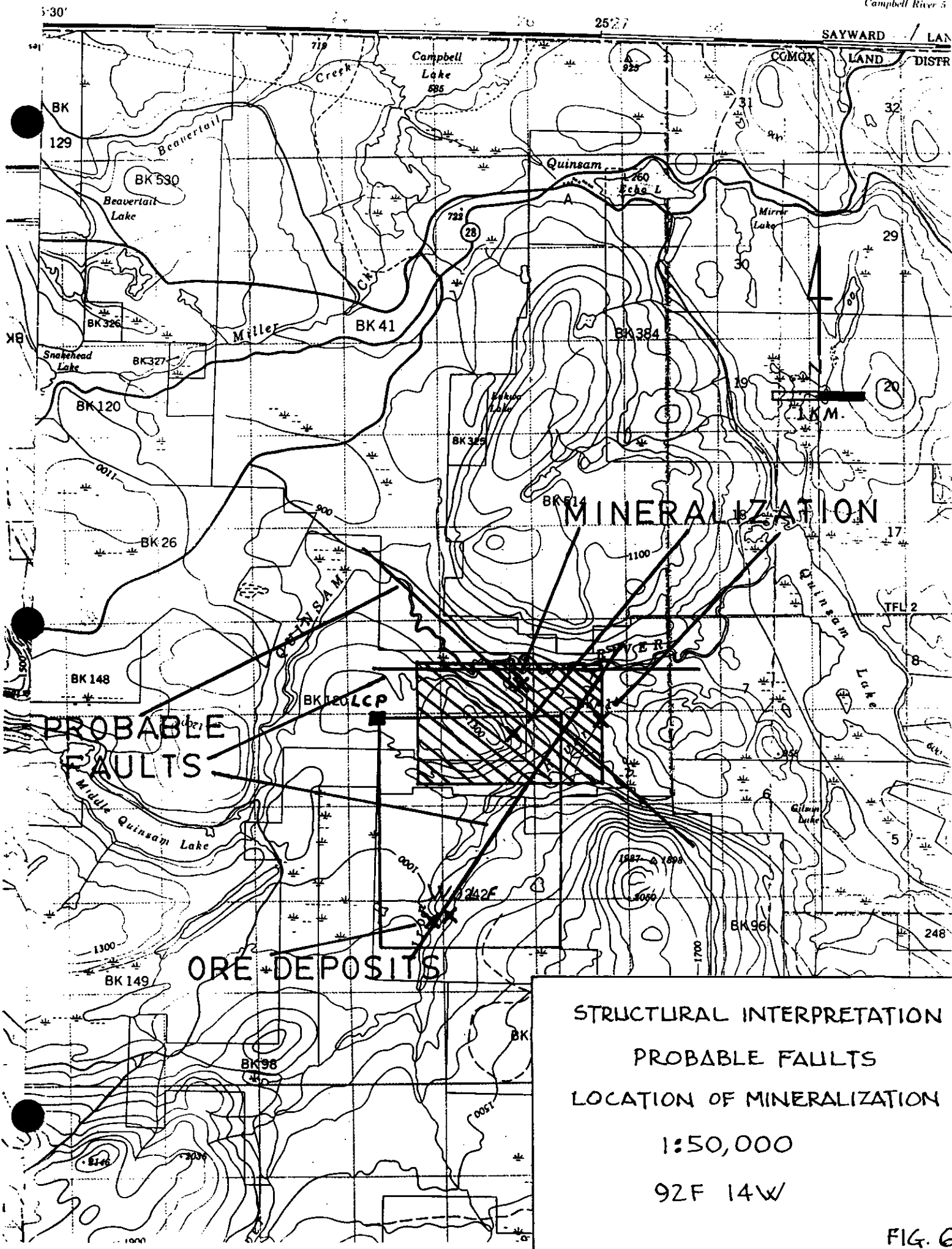
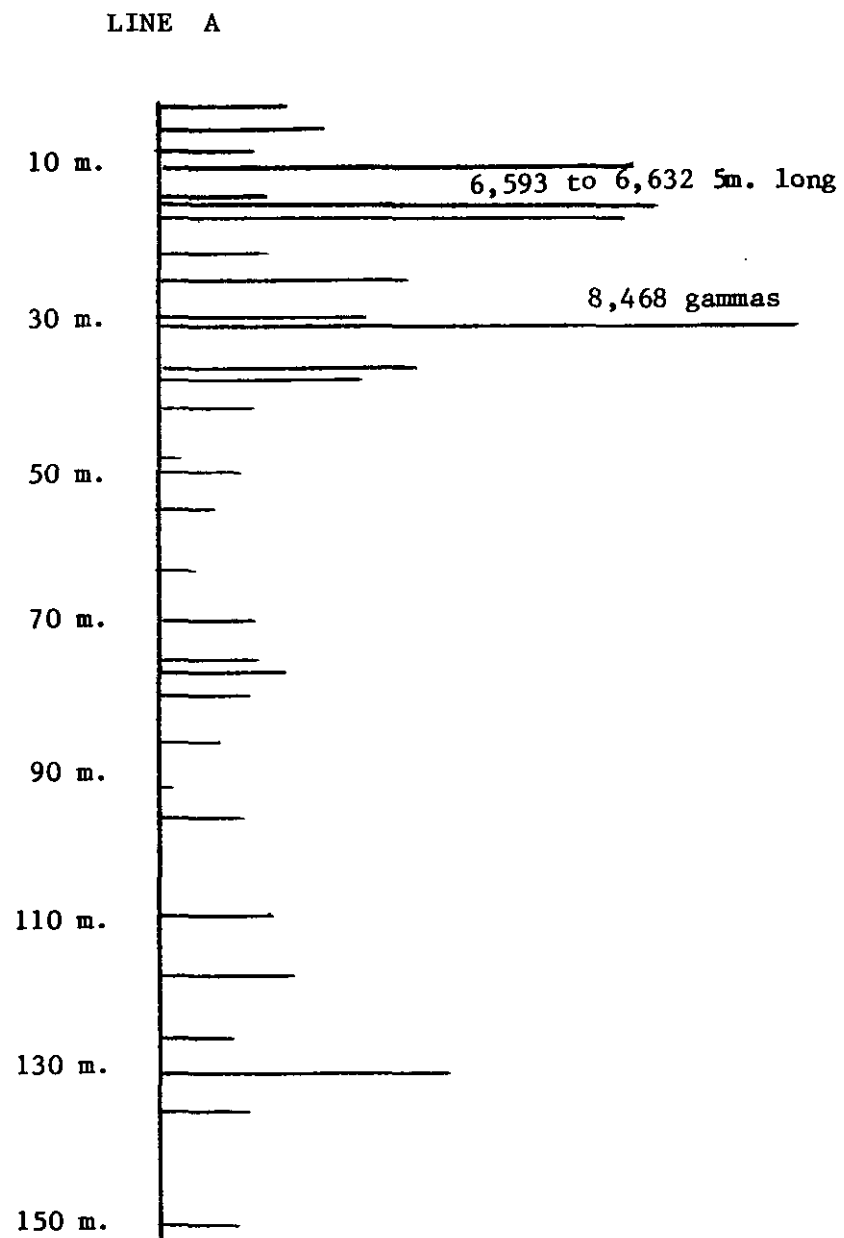


FIG. 6

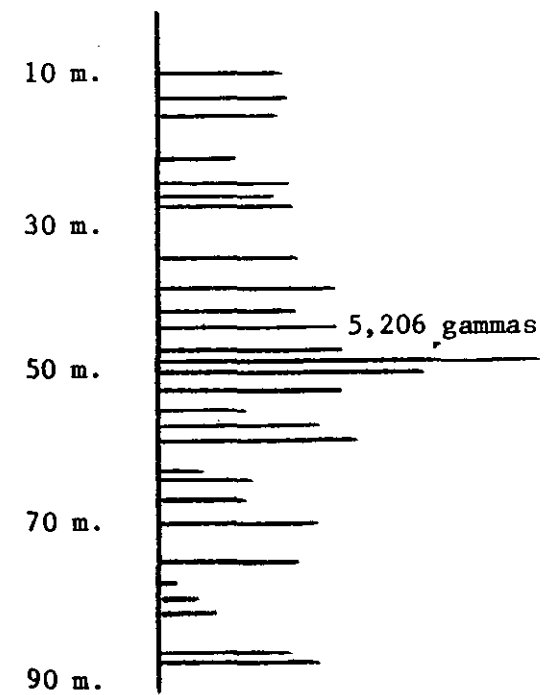
MAGNETIC SUSCEPTIBILITY

LINEAR PERSPECTIVE

1 cm = 1,000 gammas

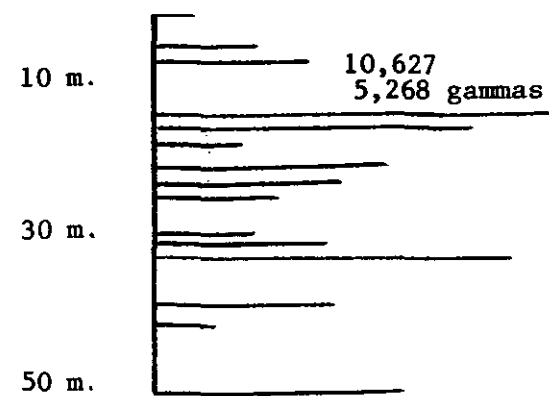


LINE B

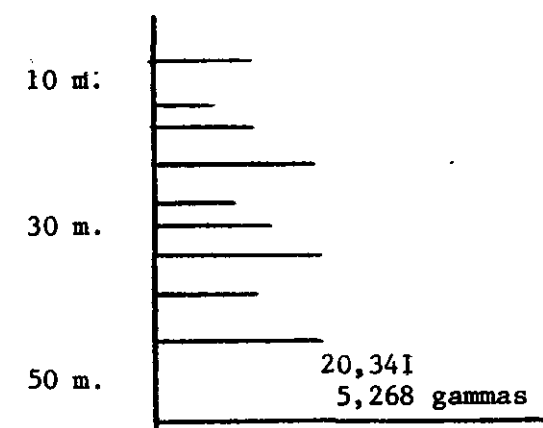


GOING DOWNHILL

LINE C



LINE D



CLIFF

FIG. 7.

ELECTROMAGNETIC SURVEY

BEEP MAT

MODEL BM-IV

NUMERICAL RESPONSES

LINE B

LINE A

1477
1718
1477
1023
1128-1654
1501
1823-1376
1785
2252
1779
2260
2429-5206
3500-3342
1373-2335
2111-2570
1255
1138
2075
1811
229
486
796
1688
2097

1770
1777-2183
10 m. 1309
3805-6354
5808-4703
6593 6,632 5 m. long
3447
30 m. 2830
6071-8468
3367
2736
1786
50 m. 269
1090
836
110
539-921
70 m. 1288
1322
1707
1226
427-871
90 m. 208
1063
65
1528-1769
110 m. 507
2955-3893
130 m. 1175
150 m. 1068

GOING DOWNHILL

LINE C

LINE D

505
1261
2209
681
1646-3816-5268-10,627
4251-3097
2022-3099
2458
1338
2274-3503-4844
2437
745
758-2830-3359

1261
828
1330
1100
1475
2212
1400
2076
5268
20,341

CLIFF

FIG. 8.



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
British Columbia, Canada V7J 2C1
PHONE: 604-984-0221 FAX: 604-984-0218

AURIZON MINES LTD.

1000 - 1177 W. HASTINGS ST.
VANCOUVER, BC
V6E 2K3

Project :
Comments: CC: J.P. LOISELLE

Page : 1-A
Total Pages : 1
Certificate Date: 19-JUN-95
Invoice No. : 19519365
P.O. Number :
Account : JWY

* PLEASE NOTE

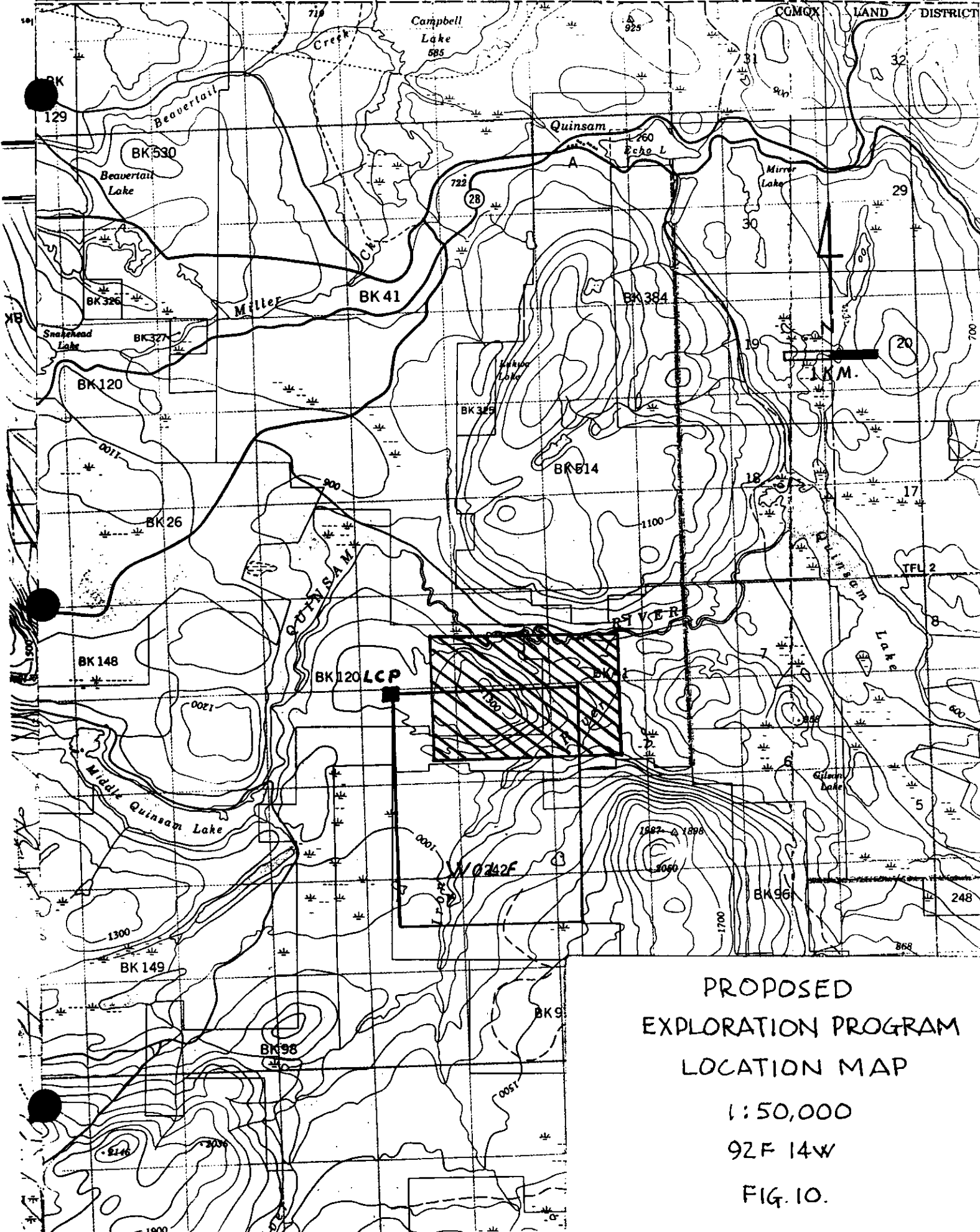
CERTIFICATE OF ANALYSIS A9519365

SAMPLE	PREP CODE	Au ppb FA+AA	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm
M-01	205 226	< 5	0.2	6.70	< 2	240	0.5	4	4.29	1.0	10	43	396	2.27	10	< 1	0.14	< 10	0.27	145
M-02	205 226	< 5	< 0.2	7.01	< 2	220	0.5	2	4.43	0.5	12	36	87	2.17	< 10	< 1	0.12	< 10	0.19	115
M-03	205 226	< 5	0.2	3.43	28	70	< 0.5	4	3.07	0.5	14	161	125	3.63	< 10	< 1	0.06	< 10	0.09	235
M-04	205 226	10	< 0.2	1.78	28	30	< 0.5	2	2.06	< 0.5	11	151	105	5.30	< 10	< 1	0.04	< 10	0.06	425
M-05	205 226	< 5	< 0.2	2.80	24	40	< 0.5	6	2.92	< 0.5	30	166	277	5.90	< 10	< 1	0.04	10	0.19	220
M-06	205 226	< 5	0.2	0.02	< 2	< 10	< 0.5	< 2	>15.00	< 0.5	< 1	8	6	0.12	< 10	< 1	< 0.01	< 10	0.09	160
M-07	205 226	< 5	< 0.2	2.84	< 2	20	< 0.5	< 2	2.55	< 0.5	13	109	249	2.91	< 10	< 1	0.08	< 10	1.14	335
M-08	205 226	< 5	< 0.2	2.62	< 2	30	< 0.5	< 2	2.06	< 0.5	20	95	397	3.75	< 10	< 1	0.10	< 10	1.68	435
M-09	205 226	15	< 0.2	2.10	4	30	< 0.5	10	2.41	< 0.5	18	67	632	5.01	< 10	< 1	0.11	< 10	0.93	395
M-10	205 226	< 5	< 0.2	1.23	2	20	< 0.5	8	1.73	< 0.5	10	46	201	4.56	< 10	< 1	0.07	< 10	0.59	285
M-11	205 226	10	< 0.2	0.81	8	20	< 0.5	< 2	1.77	< 0.5	13	74	329	4.94	< 10	2	0.08	< 10	0.29	285
M-12	205 226	< 5	< 0.2	0.78	16	< 10	< 0.5	6	4.29	< 0.5	10	81	34	10.10	< 10	< 1	0.01	< 10	0.07	1395
M-13	205 226	< 5	< 0.2	1.52	12	20	< 0.5	8	3.30	< 0.5	13	95	19	9.97	< 10	< 1	0.08	< 10	0.16	1055
AZR-GAR101	205 226	75	12.0	2.92	8	< 10	< 0.5	Intf*	1.17	4.5	105	171	>10000	8.75	< 10	< 1	0.01	< 10	2.08	825
AZR-GAR102	205 226	< 5	< 0.2	2.14	< 2	< 10	< 0.5	4	1.60	< 0.5	25	134	156	6.32	< 10	< 1	0.01	< 10	2.05	570
AZR-GAR103	205 226	10	1.6	2.51	2	< 10	< 0.5	24	1.41	0.5	44	145	3810	6.18	< 10	< 1	0.03	< 10	1.69	885
AZR-GAR104	205 226	< 5	< 0.2	2.02	< 2	40	< 0.5	10	1.35	< 0.5	25	66	201	5.63	< 10	< 1	0.12	< 10	1.70	535
AZR-GAR105	205 226	< 5	3.4	3.91	< 2	< 10	< 0.5	32	2.66	0.5	58	131	6300	8.30	< 10	< 1	0.03	< 10	2.86	1165
AZR-GAR106	205 226	135	4.8	3.12	82	70	< 0.5	Intf*	2.92	1.0	183	55	>10000	12.85	< 10	< 1	0.32	< 10	1.03	1050
AZR-GAR107	205 226	230	< 0.2	2.81	5230	50	< 0.5	< 2	3.53	< 0.5	4380	54	782	8.19	< 10	< 1	0.31	< 10	1.04	1030
AZR-GAR108	205 226	< 5	< 0.2	1.04	22	20	< 0.5	6	2.00	< 0.5	90	149	102	5.14	< 10	< 1	0.04	< 10	0.93	610
AZR-GAR109	205 226	< 5	< 0.2	2.36	20	10	< 0.5	< 2	1.96	< 0.5	48	127	129	6.57	< 10	< 1	0.01	< 10	2.39	670
AZR-GAR110	205 226	< 5	< 0.2	2.14	< 2	10	< 0.5	6	1.74	< 0.5	26	133	64	4.99	< 10	3	0.01	< 10	1.89	545
AZR-GAR111	205 226	< 5	< 0.2	1.98	< 2	30	< 0.5	10	1.26	< 0.5	29	59	150	6.16	< 10	< 1	0.11	< 10	1.83	590
AZR-GAR112	205 226	< 5	< 0.2	1.95	8	30	< 0.5	4	1.34	< 0.5	29	86	69	5.99	< 10	< 1	0.04	< 10	2.00	530
AZR-GAR113	205 226	< 5	< 0.2	3.18	12	< 10	< 0.5	12	1.11	< 0.5	29	145	272	6.66	< 10	< 1	0.02	< 10	2.54	985
AZR-GAR114	205 226	< 5	< 0.2	2.95	18	10	< 0.5	4	2.09	< 0.5	23	219	367	6.49	< 10	< 1	0.04	< 10	2.35	760
AZR-GAR115	205 226	< 5	< 0.2	2.78	< 2	10	< 0.5	< 2	1.66	< 0.5	23	152	40	5.85	< 10	1	0.11	< 10	2.23	1120
AZR-GAR116	205 226	< 5	< 0.2	2.31	14	20	< 0.5	10	1.33	< 0.5	26	107	599	5.86	< 10	< 1	0.15	< 10	1.90	545
AZR-GAR117	205 226	< 5	< 0.2	3.99	10	10	< 0.5	10	1.47	< 0.5	28	230	78	7.02	10	< 1	0.03	< 10	3.19	1360
AZR-GAR118	205 226	< 5	< 0.2	3.20	< 2	20	< 0.5	< 2	3.84	0.5	17	97	123	4.41	10	< 1	0.02	< 10	1.23	690
AZR-GAR119	205 226	< 5	< 0.2	1.90	< 2	20	< 0.5	2	1.41	< 0.5	24	145	75	6.17	< 10	< 1	0.07	< 10	1.85	485
AZR-GAR120	205 226	< 5	< 0.2	1.97	< 2	10	< 0.5	2	1.17	< 0.5	28	90	33	5.90	< 10	< 1	0.08	< 10	1.82	505
AZR-GAR121	205 226	< 5	< 0.2	2.01	< 2	10	< 0.5	4	1.34	< 0.5	25	107	32	5.18	< 10	< 1	0.03	< 10	1.73	415
AZR-GAR122	205 226	< 5	< 0.2	2.19	< 2	20	< 0.5	2	1.61	< 0.5	16	124	59	3.84	< 10	< 1	0.09	< 10	1.80	685
AZR-GAR123	205 226	< 5	< 0.2	2.30	< 2	20	< 0.5	< 2	1.44	< 0.5	26	111	115	5.50	< 10	< 1	0.04	< 10	1.93	695
AZR-GAR124	205 226	45	0.4	1.55	< 2	10	< 0.5	28	1.09	< 0.5	21	65	4800	8.53	< 10	< 1	0.14	< 10	1.14	315
AZR-GAR125	205 226	< 5	< 0.2	2.28	< 2	10	< 0.5	2	1.62	< 0.5	23	41	512	5.91	< 10	< 1	0.14	< 10	1.85	575
AZR-GAR126	205 226	< 5	0.6	2.88	< 2	10	< 0.5	16	4.76	< 0.5	25	54	3500	6.11	< 10	< 1	0.10	< 10	2.28	1020

CERTIFICATION: *[Signature]*

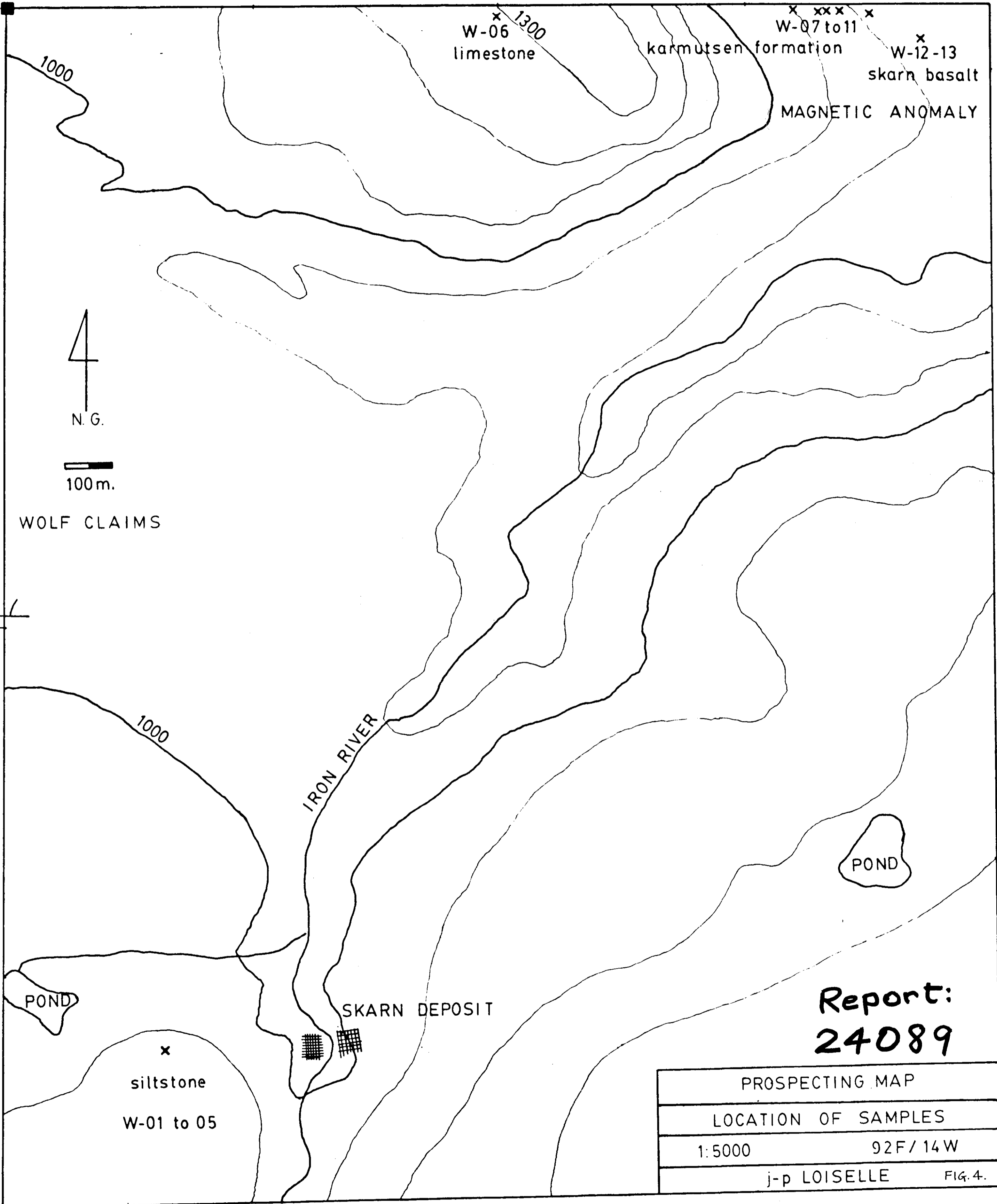
* INTERFERENCE: Cu ON BI.

FIG. 9.



PROPOSED
EXPLORATION PROGRAM
LOCATION MAP
1:50,000
92F 14W
FIG. 10.

LCP



**Report:
24089**

PROSPECTING MAP	
LOCATION OF SAMPLES	
1:5000	92F/14W
j-p LOISELLE	FIG. 4.