

**Summary of Work
Hasselberg Lake Area
Yukon Territory, N.T.S. 105 A/13**

for

**Yukon Mining Incentives Program
Economic Development
Government of the Yukon
Box 2703, Whitehorse, Yukon Y1A 2C6**

File Number 98-16

**YUKON ENERGY, MINES
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P.O. Box 2703
Whitehorse, Yukon Y1A 2C6**

**John Peter Ross, Prospector
November, 1998**

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Chapter One: INTRODUCTION

1.1 Introductory Statement

The Hasselberg Lake (VIVI claim group) area, map sheet 105 A/13, was chosen because;

1. In the past, 4 government silt samples were anomalous for Au and either As or W, or both.
2. Claims were staked and recorded. Sampling confirmed 3 anomalies (4th not checked out) for Au. One area was found to be anomalous for Au + Sb, one area for Au + As.
3. The VIVI 1-32 claims were recorded, but only VIVI 1-2, 11-12, 19-30 were kept.
4. The deposit type sought was unknown.
5. The area while expensive to access by helicopter is close to Watson Lake - Ross River (Robert Campbell) Highway.

1.2 Location and Access

Access was by TransNorth helicopter out of Watson Lake, approximately 65 miles (104.6 km) to the northwest.

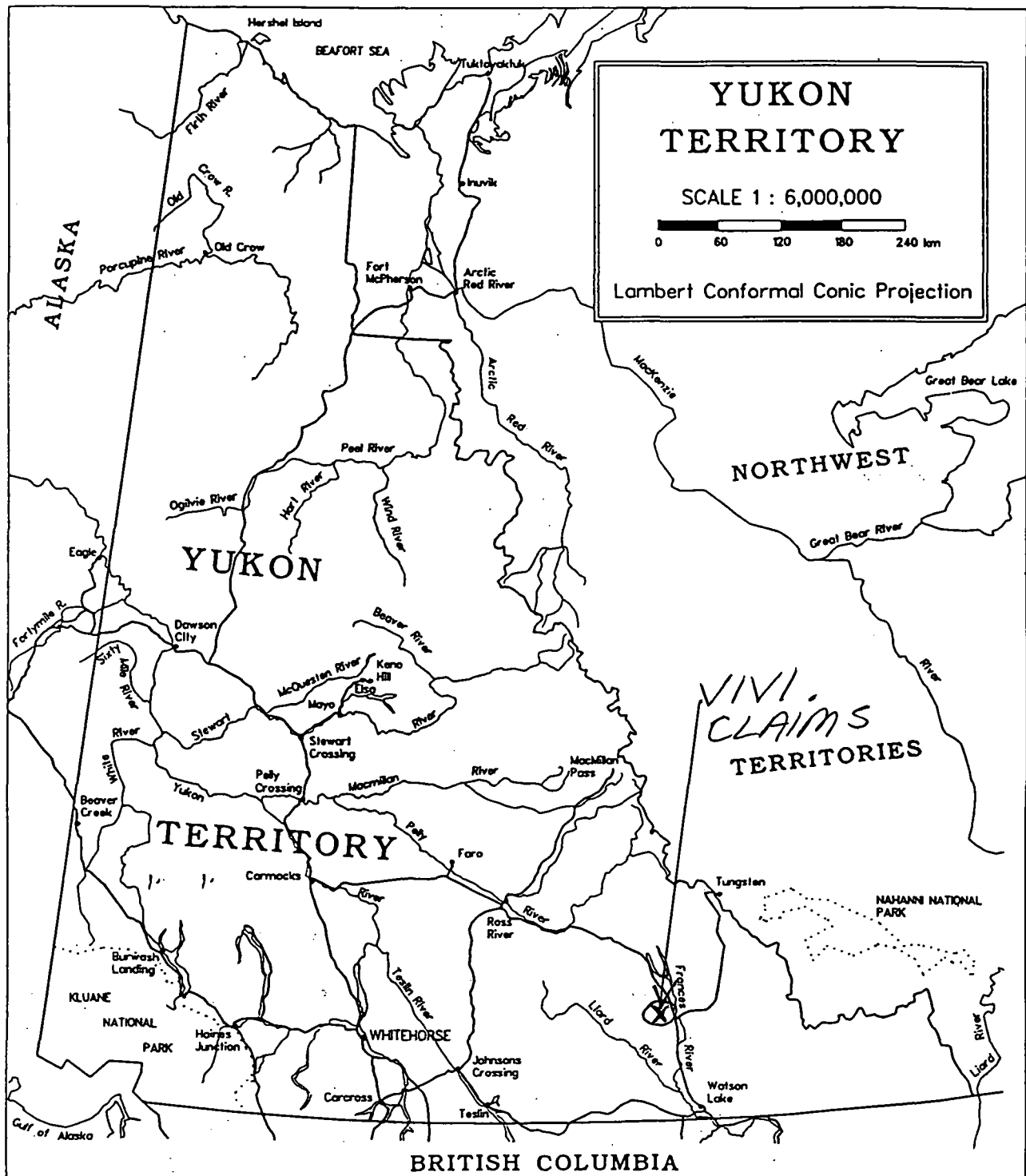


FIGURE #1
LOCATION MAP
 VIVI-1, 2, 11, 12, 19-30

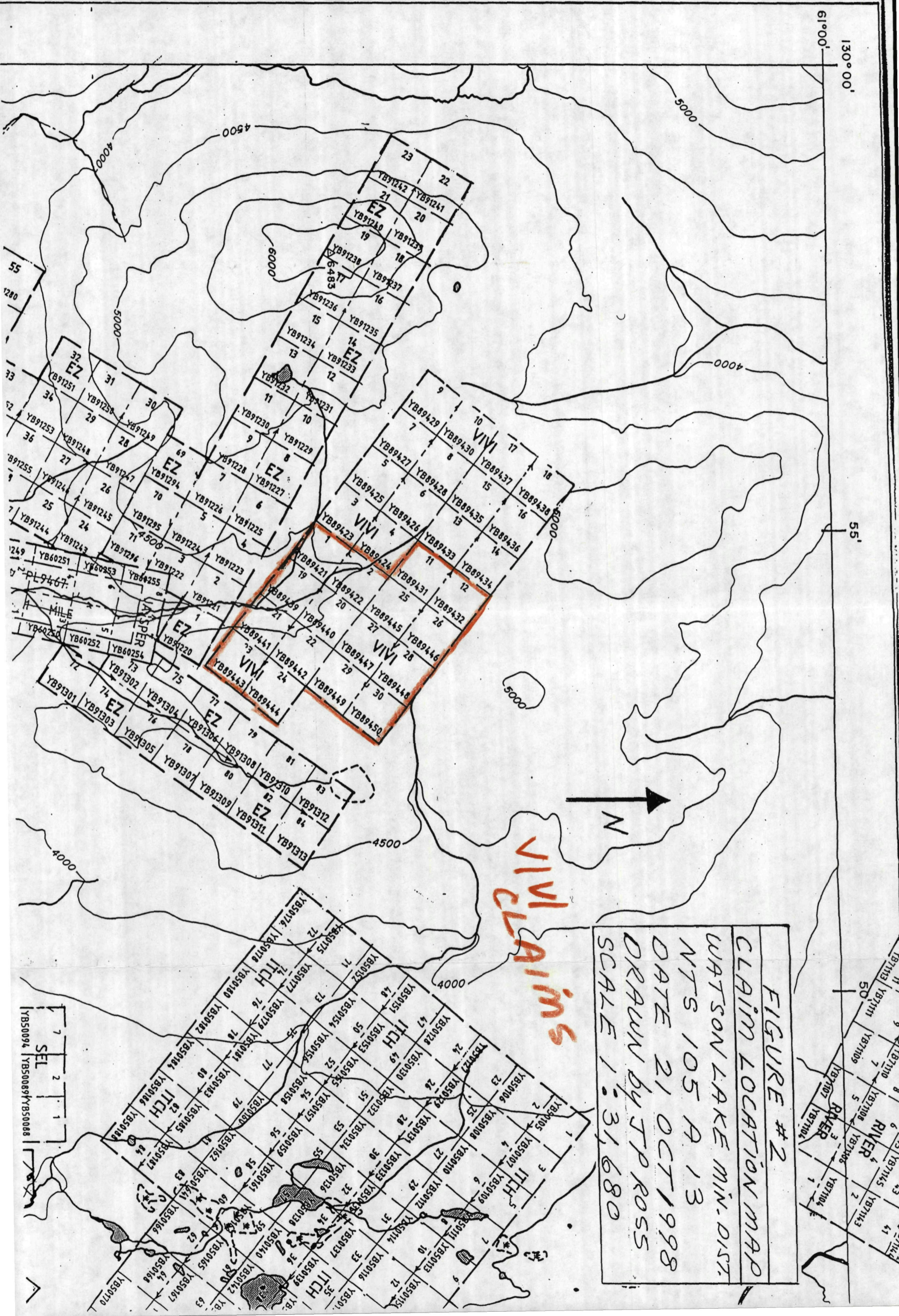
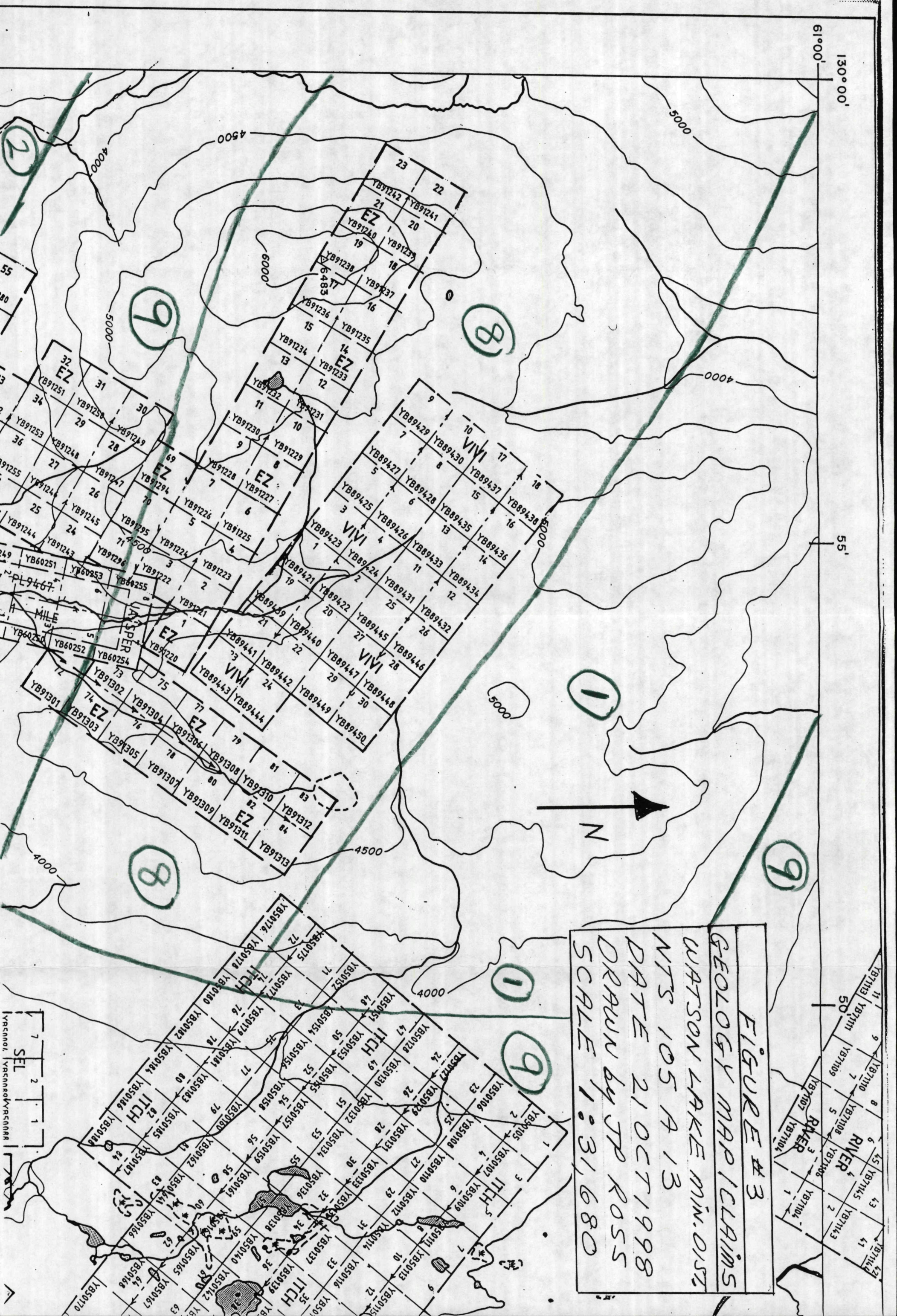


FIGURE #2
 CLAIM LOCATION MAP
 WATSON LAKE MIN. DIST.
 NTS 105 A 13
 DATE 21 OCT 1998
 DRAWN by J.P. ROSS
 SCALE 1:31,680



130° 00'
61° 00'

55'

FIGURE #3
GEOLOGY MAP CLAIMS
WATSON LAKE MIN. DIST
NTS 105 A 13
DATE 21 OCT 1998
DRAWN BY JP ROSS
SCALE 1:31,680

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MAP 1 - NTS 105A
SAMPLE LOCATION
STREAM SEDIMENT
GSC OPEN FILE 3293
SOUTHEASTERN YUKON 1996

GEOLOGICAL LEGEND

CENOZOIC

11 Felsic to intermediate volcanic rocks; minor tillite and limestone

10 Nonmarine clastic sediments; minor felsic volcanics

PALEOZOIC

9 Mafic to ultramafic rocks and associated marine carbonates and clastics

8 Intermediate to felsic volcanics and associated marine carbonates and clastics

7 Mainly marine carbonates and shales; minor siliceous sediments (chert)

6 Marine and nonmarine clastic sediments; minor limestone and coal

PROTEROZOIC

5 Mainly clastic marine sediments; minor limestone and basalt

4 Mainly siliceous and carboniferous sediments; minor evaporite, mafic volcanics, and iron formation

PLUTONIC ROCKS

3 Granite, leucogranite, alaskite, quartz monzonite, granophyre

2 Granodiorite, leucogranodiorite, quartz monzonite, quartz diorite, tonalite

1 Ultramafic rocks

— Geological Boundary

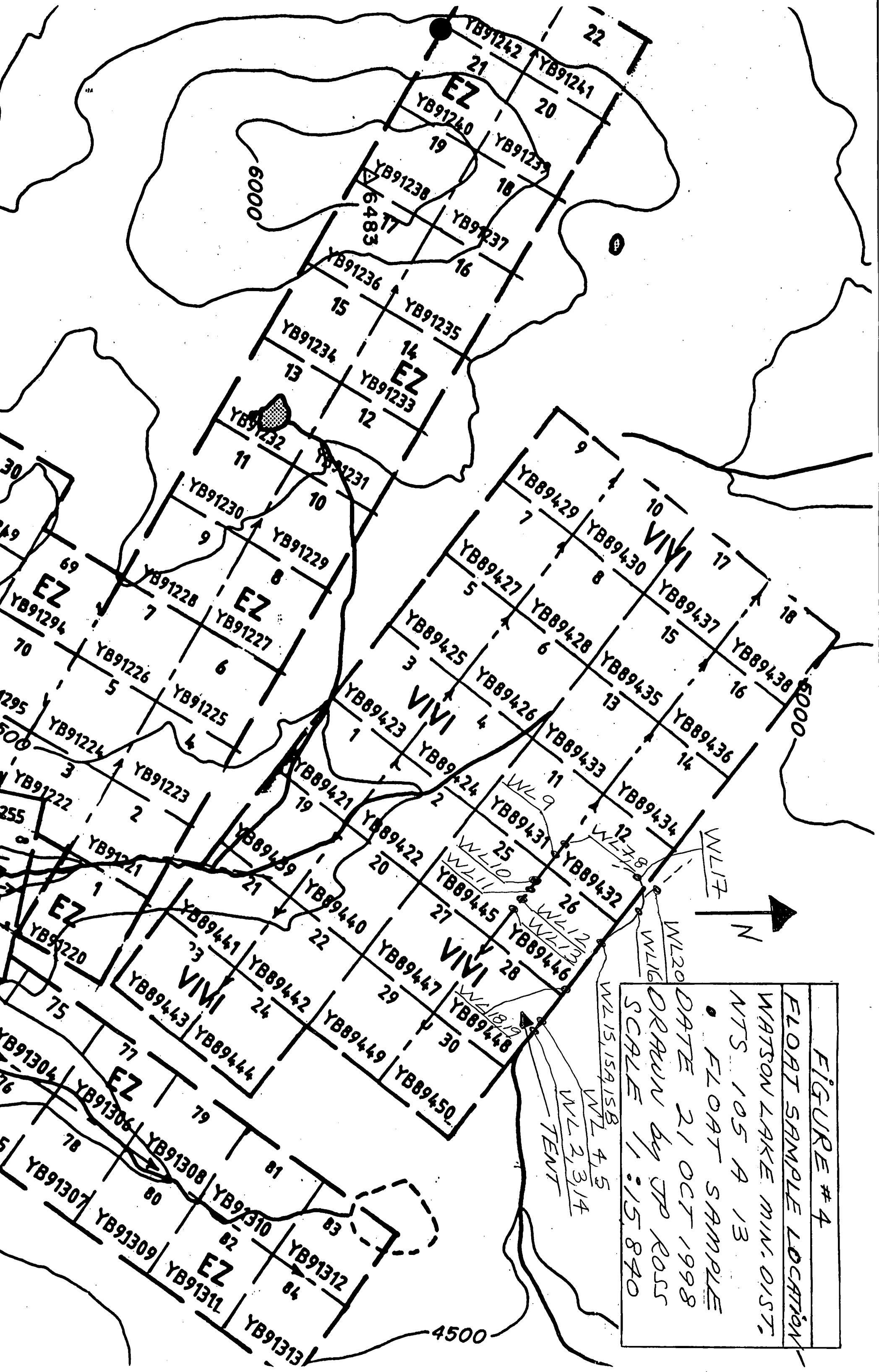


FIGURE #4
 FLOAT SAMPLE LOCATION -
 WATSON LAKE MIN. DIST.
 NTS. 105 A 13
 FLOAT SAMPLE
 DATE 21 OCT 1998
 DRAWN by JP ROSS
 SCALE 1:15840

WL15 15A15B
 WL 4.5
 WL 2,3,14
 WL16
 WL20
 WL17
 TENT

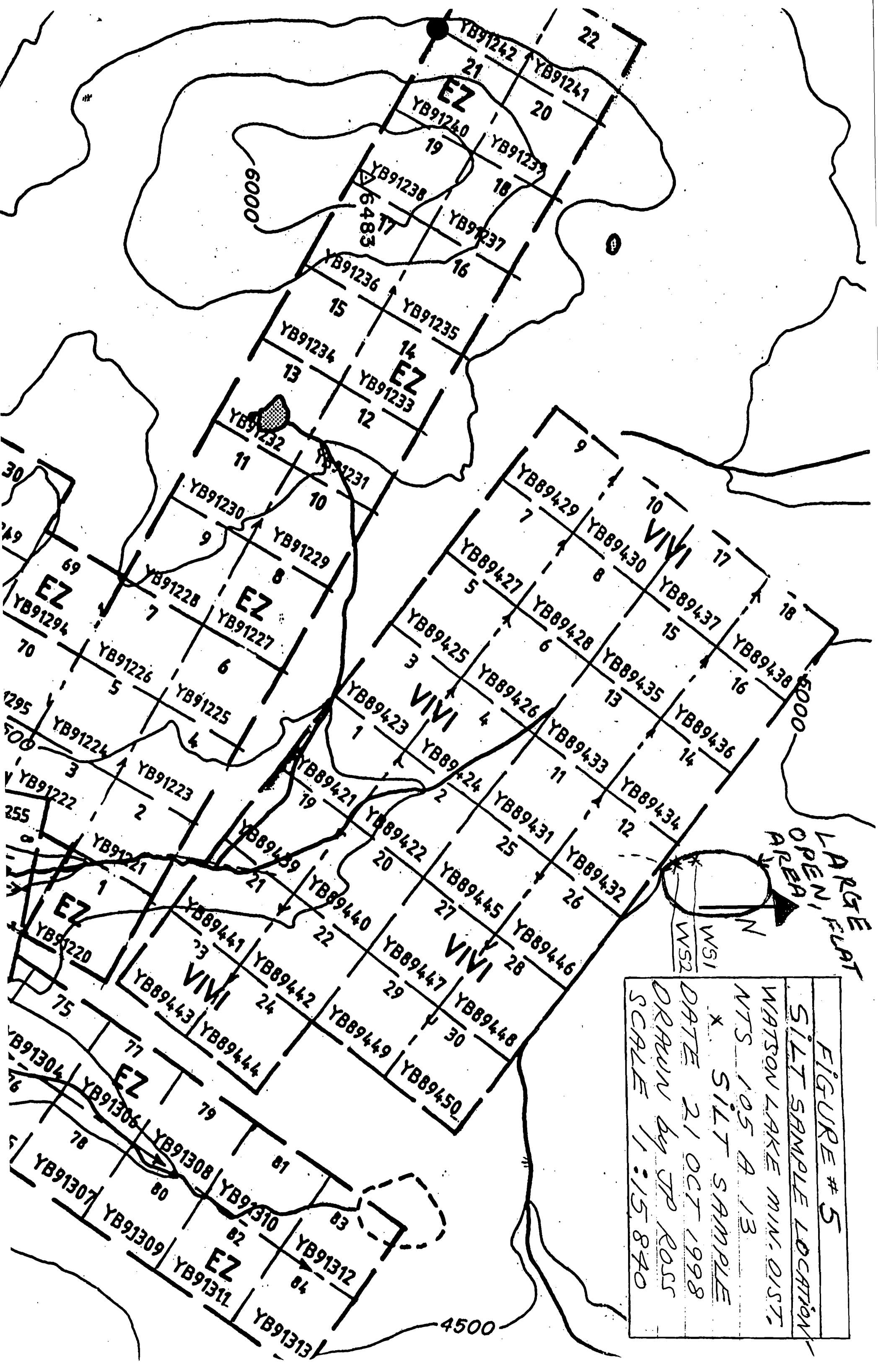


FIGURE # 5
 SILT SAMPLE LOCATION
 WATSON LAKE MIN. DIST.
 NTS 105 A 13
 * SILT SAMPLE
 DATE 21 OCT 1998
 DRAWN by JP ROSS
 SCALE 1:15,840

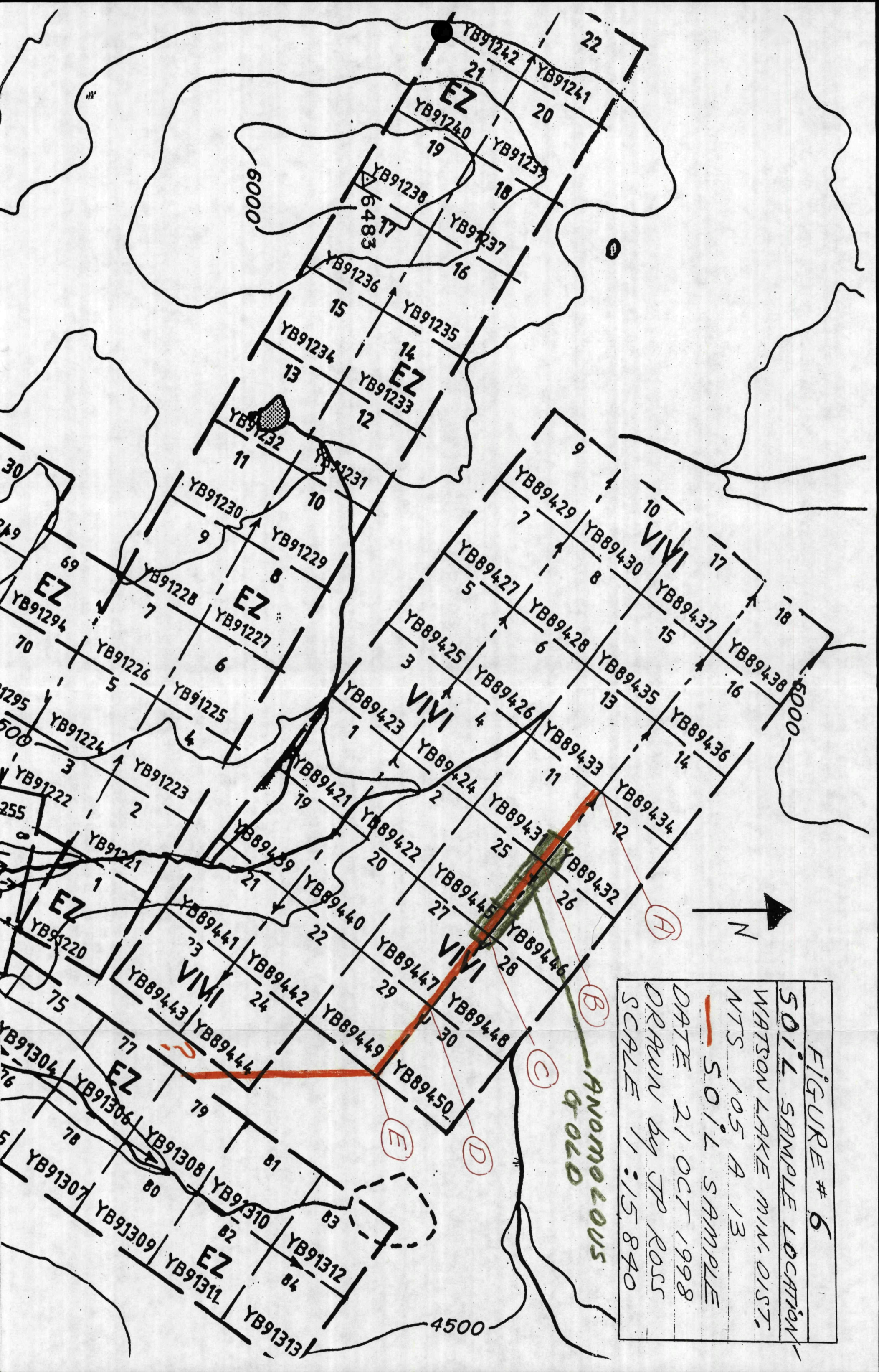


FIGURE # 6
 SOIL SAMPLE LOCATION
 WATSON LAKE MIN. DIST.
 NTS 105 A 13
 SOIL SAMPLE
 DATE 21 OCT 1998
 DRAWN BY JP ROSS
 SCALE 1:15840

Chapter Two: SUMMARY

The VIVI 1-2, 11-12, 19-30 claims were kept.

Two hundred (200) tons of high-grade Jade has been mined to the south. Five - six pieces of nephrite jade were seen piled on large boulders in the stream just north of the camp. One small trench was seen 100 feet east of the camp.

Twenty-one (21) float rock samples were taken and tested.

Two (2) silt samples were taken and tested.

One hundred and seventeen (117) soil samples were taken along the claim line starting from #2 posts VIVI 11+12 to #2 posts of VIVI 29+30. Then a soil line at an angle of 195 degrees approximately. Intervals were at 75 feet but only every second sample was tested. Stations at claim posts were A, B, C, D, E.

Silt and float samples were marked by ribbon. Soils samples were taken from a depth of 12 - 24 inches or more in order to get a good sample.

Rock chips were examined, some were tested; rock samples were marked with blue and yellow flagging tape. A wooden lath with a tag was hammered or placed in a hole nearby.

Viceroy Resources paid for all samples in exchange for a right of first refusal on the claims.

No float samples were anomalous. Two silt samples were anomalous. Most of 15 soil samples in a row were anomalous.

Dates worked were July 23-31 and August 1-8, 1998.

Silt Samples

Highlighted values are Au \geq 10 ppb, Cr \geq 500 ppm, Fe \geq 4.0%, Mn \geq 1000 ppm, Ni \geq 300 ppm.

	<u>Au ppb</u>	<u>Cr ppm</u>	<u>Fe %</u>	<u>Mn ppm</u>	<u>Sb ppm</u>
WS 1	--	619	4.55	5340	519
WS 2	300	1065	4.94	930	532

Soil Samples

Highlighted values are Au \geq 10 ppb, Cr \geq 500 ppm, Fe \geq 4.0%, Mn \geq 1000 ppm, Ni \geq 300 ppm.

	<u>Au ppb</u>	<u>Cr ppm</u>	<u>Fe %</u>	<u>Mn ppm</u>	<u>Sb ppm</u>
A+900SE	105	855	3.57	550	376
A+1050SE	175	1135	6.12	1135	470
A+1200SE	20	508	5.04	1215	268
A+1350SE	10	848	7.30	2620	488
B	80	640	4.95	1225	315
B+150SE	125	683	4.04	820	321
B+300SE	50	846	5.78	1185	313
B+450SE	10	495	3.86	410	213
B+600SE	755	1215	12.05	3590	624
B+750SE	105	687	4.98	915	424
B+900SE	70	632	3.90	530	358
B+1050SE	--	547	2.85	210	167
B+1200SE	400	515	2.42	185	152
B+1350SE	--	613	3.17	305	186
C+75SE	60	248	2.73	145	91

Chapter Three: GEOCHEMICAL SURVEY

3.1 Float Rock Geochemistry

Twenty-one (21) float rock samples were taken and tested for Au 30g and 32 element ICP.

3.2 Silt Geochemistry

Two (2) silt samples were passed through an 8 mesh screen and put into a bag, tested for -80 mesh; Au 30g fire assay and 32 element ICP.

3.3 Soil Geochemistry

Fifty-nine (59) soil samples were tested for -80 mesh Au 30g fire assay and 32 element ICP.

3.4 Interpretation

The area prospected and soil sampled is covered by glacial till. A linear (now dry) stream goes through B+675SE - B+750SE at an angle of 18 - 20 degrees and heads towards the large flat area shown in Figure 5 and the location of silt sample WS1. The geology of the area is Unit 8 (Paleozoic intermediate to felsic volcanic rocks and associated marine carbonates and clastics). The boundary between Unit 8 and Unit 1 (Ultramafic plutonic rocks) is not known.

An anomalous gold zone from A+900SE to C+75SE (a distance of 2,025 feet) averages 131 ppb Au in 15 samples. The mineral association is Au ± Cr, Fe, Mn, Ni. The anomalous area extends to WS1 and WS2, and possibly beyond these points. The angle, width and length of the zone is unknown. It is possibly a motherlode Au deposit or an ultramafic sill(s) or dyke(s) according to Ken Galambos (Mineral Development Geologist, Yukon Geology Program).

Chapter Four: PROSPECTING

At present all 16 claims will be kept, 9 years of work was done on 16 claims. The 59 soil samples not tested are stored in a dry location.

In the future, more claims should be staked and recorded to cover the northern extension of the Au zone. *Testing for Pt* series in the future will be done on the stored (alternate) soil samples.

It is possible the anomaly could be up to 1 claim length (1500 feet) wide and up to 4 claims lengths (6000 feet) long. Other anomalous areas may be located.

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
Box 4842
Whitehorse, Yukon
Canada. Y1A 4N8
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 -- BC & Yukon Chamber of Mines, Prospecting Course
1978 -- United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 -- Yukon Chamber of Mines, Advanced Prospecting Course
1991 -- Exploration Geochemistry Workshop, GSC Canada
1994 -- Diamond Exploration Short Course, Yukon Geoscience Forum
1994 -- Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 -- Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 -- Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 -- Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 -- Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 -- New Mineral Deposit Models of the Cordillera, MDRU
1997 -- Geochemical Exploration in Tropical Environments, MDRU
1998 -- Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors' Assistance and Yukon Mining Incentive Program 1986 - 1998
6. have been on the British Columbia Prospectors' Assistance Program 1989 - 1990
7. have a 100% interest in the claims described in this report at the present time

John Peter Ross
27 NOV 1998

Appendix 1

References

GSC Open File 3293, NTS 105A, SE Yukon, 1996.

Geophysical Paper, Map 1352G, Hasselberg Lake, NTS 105 A/13.

New Mineral Deposit Models of the Cordillera, Short Course MDRU 1997. (Gold skarns, motherlode deposits, Carlin Type deposits, epithermal deposits).

Personal Communication;

John Kowalchuk, Geologist, NU-LITE Resources, Vancouver, BC.

Trevor Bremner, Geologist, DIAND

Watson Lake Mining Recorder

John Sinkankas., Vol. 3, p. 190, 1997, Gemstones of North America

Ross, J.P., 1997, Summary of Work Hasselberg Lake Area Yukon Territory, N.T.S. 105 A/13: for Yukon Mining Incentives Program, Economic Development, Government of the Yukon, Box 2703, Whitehorse, Yukon Y1A 2C6. File Number 97-13.

Metallogeny of Volcanic Arcs, Cordilleran Roundup 1998 short course.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Howard	NTS MAP SHEET: 105 A 13
MINFILE #: 105A 034	LATITUDE: 60°55'00"N
MAJOR COMMODITIES: -	LONGITUDE: 129°55'00"W
MINOR COMMODITIES: -	DEPOSIT TYPE: Unknown
TECTONIC ELEMENT: Yukon Tanana Terrane	STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

HOWARD, TIM, CHEN, MAYLING, SEL, ITCH.

WORK HISTORY

Staked as Howard cl (YA56487) in Sep/80 by Alex Black. Restaked in Sep/86 as Tim cl (YA91552) by T. Liverton. Jiyu Chen staked a single Chen cl (YB35009) 2 km to the southeast in Aug/92, and trenched in Aug/93. S. Hearty staked the Mayling 1-5 cl (YB35306) 1 km to the east in Jan/93, performing bulldozer trenching, prospecting and road building on the claims from July to Sept/93.

In July/94 Cominco Ltd. staked the Sel cl 1-17 (YB50088) 3 km to the east and the Itch cl 1-84 (YB50151) 4 km to the northeast. In Aug/94 Cominco carried out geological mapping, prospecting and soil sampling on both claim groups.

S. Hearty staked Jasper cl 1-8 (YB60248) just north of the occurrence in Aug/95.

GEOLOGY

The rocks underlying this area have been assigned to the Yukon-Tanana Terrane (YTT) and the Slide Mountain Terrane (SMT). Cominco reported generally poor outcrop exposure on the Itch claim block. The best exposure are in creeks located along the west side of the property and consist of grey to black, variably carbonaceous mudstone and silty mudstone with minor interbedded quartzite and siltstone. No outcrop exposure was noted on the Sel claim block.

Cominco staked the claims to cover airborne geophysical targets identified during a survey flown in early 1994. The results from this survey were not filed for assessment credit. Two lines of soil samples (101 samples) and 4 silt samples were collected from the Itch property. A single soil line (35 samples) was collected across the center part of the Sel property.

REFERENCES

COMINCO LTD, JUN/95. Assessment Report #093330 by P. MacRobbie.

MORTENSEN, J. K., 1983a. Age and Evolution of the Yukon-Tanana Terrane, Southeastern Yukon [Ph.D. Thesis]; Santa Barbara, University of California, 115 p.

APPENDIX 2

Rock Geochemistry - Assay Results



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

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

A9828529

Comments: ATTN: RICK DIMENT

CERTIFICATE

A9828529

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4340-03
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 31-AUG-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	21	Geochem ring to approx 150 mesh
226	21	0-3 Kg crush and split
3202	21	Rock - save entire reject
229	21	ICP - AQ Digestion charge

* NOTE 1.

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	21	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
2118	21	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	21	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	21	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	21	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	21	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	21	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	21	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	21	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	21	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	21	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	21	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	21	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	21	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	21	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	21	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	21	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	21	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	21	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	21	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	21	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	21	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	21	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	21	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	21	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	21	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	21	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	21	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	21	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	21	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	21	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	21	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	21	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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Project: 4340-03
 Comments: ATTN: RICK DIMENT

Page: 1-A
 Total: 1
 Certificate Date: 31-AUG-1998
 Invoice No.: 19828529
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS A9828529

SAMPLE	PREP CODE	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg	Mn
		FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
WL 2	205 226	15	< 0.2	0.24	38	10	1.5	< 2	0.01	< 0.5	45	1120	9	2.54	< 10	< 10	< 0.01	< 10	2.82	245
WL 3	205 226	< 5	< 0.2	0.17	34	20	0.5	< 2	< 0.01	< 0.5	28	525	4	2.97	< 10	< 10	< 0.01	< 10	2.94	260
WL 4	205 226	< 5	< 0.2	0.13	10	10	0.5	< 2	< 0.01	< 0.5	18	382	7	1.37	< 10	< 10	< 0.01	< 10	1.63	250
WL 5	205 226	70	< 0.2	0.13	40	10	< 0.5	< 2	0.01	< 0.5	24	578	2	2.23	< 10	< 10	< 0.01	< 10	2.21	375
WL 6	205 226	< 5	< 0.2	0.34	20	10	0.5	< 2	< 0.01	< 0.5	59	928	4	3.61	< 10	< 10	< 0.01	< 10	9.42	300
WL 7	205 226	< 10	< 0.2	0.28	8	160	< 0.5	< 2	0.03	< 0.5	41	1145	< 1	3.18	< 10	< 10	< 0.01	< 10	3.70	1830
WL 8	205 226	< 5	< 0.2	0.24	6	90	< 0.5	< 2	0.03	< 0.5	38	1105	< 1	2.89	< 10	< 10	< 0.01	< 10	3.45	1420
WL 9	205 226	10	< 0.2	0.28	< 2	40	< 0.5	< 2	0.03	< 0.5	38	1210	< 1	3.72	< 10	< 10	< 0.01	< 10	3.82	895
WL 10	205 226	< 5	< 0.2	0.16	6	40	< 0.5	< 2	0.04	< 0.5	50	941	< 1	3.83	< 10	< 10	< 0.01	< 10	5.44	1160
WL 11	205 226	< 5	< 0.2	0.30	8	80	< 0.5	< 2	0.03	< 0.5	59	966	5	4.82	< 10	< 10	< 0.01	< 10	4.15	1545
WL 12	205 226	55	< 0.2	0.12	< 2	10	< 0.5	< 2	0.01	< 0.5	29	1200	4	4.19	< 10	< 10	< 0.01	< 10	1.66	395
WL 13	205 226	< 5	< 0.2	0.06	< 2	< 10	< 0.5	< 2	0.03	< 0.5	36	1520	1	4.17	< 10	< 10	< 0.01	< 10	5.08	520
WL 14	205 226	45	< 0.2	0.06	< 2	90	< 0.5	< 2	< 0.01	< 0.5	20	187	2	0.76	< 10	< 10	< 0.01	< 10	0.31	760
WL 15	205 226	< 5	< 0.2	0.36	24	40	0.5	< 2	0.01	< 0.5	49	788	3	2.55	< 10	< 10	< 0.01	< 10	3.51	605
WL 15A	205 226	< 5	< 0.2	0.23	14	10	< 0.5	< 2	< 0.01	< 0.5	34	530	9	2.00	< 10	< 10	< 0.01	< 10	2.56	445
WL 15B	205 226	< 5	< 0.2	0.06	< 2	10	< 0.5	< 2	< 0.01	< 0.5	8	89	3	0.36	< 10	< 10	< 0.01	< 10	0.30	220
WL 16	205 226	< 5	< 0.2	0.17	32	20	< 0.5	< 2	< 0.01	< 0.5	22	471	3	2.79	< 10	< 10	< 0.01	< 10	1.74	325
WL 17	205 226	< 5	< 0.2	0.27	20	40	0.5	< 2	< 0.01	< 0.5	58	1080	5	2.85	< 10	< 10	< 0.01	< 10	4.74	800
WL 18	205 226	< 5	< 0.2	0.04	2	10	< 0.5	< 2	0.02	< 0.5	7	161	2	0.29	< 10	< 10	< 0.01	< 10	0.22	135
WL 19	205 226	< 5	< 0.2	0.05	< 2	30	< 0.5	< 2	< 0.01	< 0.5	7	170	2	0.37	< 10	< 10	< 0.01	< 10	0.27	265
WL 20	205 226	< 5	< 0.2	0.12	10	50	0.5	< 2	0.04	< 0.5	41	433	1	3.01	< 10	< 10	< 0.01	< 10	7.76	1220

CERTIFICATION:

Hartfelder



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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project: 4340-03
 Comments: ATTN: RICK DIMENT

Page : 1-B
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 Certificate Date: 31-AUG-1998
 Invoice No. : 19828529
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9828529

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
WL 2	205 226	< 1 < 0.01		795	60	16	< 2	4	< 1 < 0.01	< 10	< 10	16	< 10		42
WL 3	205 226	1 < 0.01		455	30	6	< 2	2	< 1 < 0.01	< 10	< 10	11	< 10		16
WL 4	205 226	1 < 0.01		333	20	8	< 2	1	< 1 < 0.01	< 10	< 10	6	< 10		12
WL 5	205 226	< 1 < 0.01		288	40	< 2	< 2	5	< 1 < 0.01	< 10	< 10	4	< 10		16
WL 6	205 226	< 1 < 0.01		1085	10	2	2	6	< 1 < 0.01	< 10	< 10	25	< 10		32
WL 7	205 226	< 1 < 0.01		368	90	2	< 2	4	< 1 < 0.01	< 10	< 10	16	< 10		64
WL 8	205 226	< 1 < 0.01		330	100	2	< 2	6	< 1 < 0.01	< 10	< 10	13	< 10		40
WL 9	205 226	< 1 < 0.01		332	50	2	< 2	7	< 1 < 0.01	< 10	< 10	22	< 10		24
WL 10	205 226	< 1 < 0.01		370	70	4	2	8	1 < 0.01	< 10	< 10	18	< 10		58
WL 11	205 226	< 1 < 0.01		357	90	6	< 2	6	1 < 0.01	< 10	< 10	27	< 10		100
WL 12	205 226	< 1 < 0.01		272	20	< 2	< 2	4	< 1 < 0.01	< 10	< 10	38	< 10		16
WL 13	205 226	< 1 < 0.01		444	10	< 2	< 2	2	< 1 < 0.01	< 10	< 10	23	< 10		8
WL 14	205 226	1 < 0.01		117	30	2	< 2	1	< 1 < 0.01	< 10	< 10	5	< 10		8
WL 15	205 226	< 1 < 0.01		666	50	< 2	< 2	5	1 < 0.01	< 10	< 10	19	< 10		24
WL 15A	205 226	< 1 < 0.01		585	40	< 2	< 2	3	< 1 < 0.01	< 10	< 10	16	< 10		16
WL 15B	205 226	< 1 < 0.01		148	10	< 2	< 2	< 1	< 1 < 0.01	< 10	< 10	3	< 10		8
WL 16	205 226	3 < 0.01		439	50	< 2	< 2	1	< 1 < 0.01	< 10	< 10	12	< 10		18
WL 17	205 226	< 1 < 0.01		877	50	< 2	< 2	5	< 1 < 0.01	< 10	< 10	17	< 10		40
WL 18	205 226	3 < 0.01		87	10	< 2	2	< 1	< 1 < 0.01	< 10	< 10	2	< 10		8
WL 19	205 226	< 1 < 0.01		87	20	< 2	< 2	< 1	< 1 < 0.01	< 10	< 10	2	< 10		8
WL 20	205 226	< 1 < 0.01		402	60	2	< 2	3	1 < 0.01	< 10	< 10	9	< 10		22

CERTIFICATION:

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APPENDIX 3

Rock Sample Descriptions (all samples are float)

<u>Sample Number</u>	<u>Description</u>
WL2	felsic volcanics + chalcedony stringers
WL3	greenish quartz with sulphide stringers
WL4	large angular complex rock
WL5	similar to WL2
WL6	felsic volcanics, large chalcedony vein + chalcedony stringers
WL7	felsic volcanics with Mn stain and sulphides
WL8	similar to WL7
WL9	similar to WL7
WL10	felsic volcanics + sulphides
WL11	similar to WL10
WL14	very strange quartz, many holes and some sulphides
WL15	large rock, nice sulphides, few as chunks in a small area
WL15a	large rock, nice sulphides, few as chunks in a small area
WL15b	large rock, nice sulphides, few as chunks in a small area
WL16	interesting quartz, with holes and sulphides (brown and orange)
WL17	felsic volcanics + chalcedony stringers
WL18	interesting quartz - white, with holes and almost no sulphides
WL19	interesting quartz, blue and white zones, orange and brown zones
WL20	felsic volcanics and crumbly blue zones

APPENDIX 4

Silt Geochemistry - Assay Results



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

A9828520

Comments: ATTN: RICK DIMENT

CERTIFICATE

A9828520

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4340-03
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 29-AUG-1998.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	2	Dry, sieve to -80 mesh
202	2	save reject
229	2	ICP - AQ Digestion charge

* NOTE 1:

The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	2	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
100	0	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2118	2	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	2	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	2	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	2	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	2	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	2	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	2	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	2	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	2	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	2	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	2	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	2	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	2	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	2	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	2	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	2	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	2	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	2	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	2	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	2	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	2	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	2	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	2	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	2	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	2	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	2	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	2	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	2	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	2	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	2	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	2	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	2	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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VICEROY EXPLORATION (CANADA), INC

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 WHITEHORSE, YT
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 Account : OQN

CERTIFICATE OF ANALYSIS **A9828520**

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Eg	K	La	Mg
	FA+AA	FA+AA	FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
WS-1	201	202	< 5	-----	< 0.2	1.40	18	290	< 0.5	< 2	0.16	1.0	95	619	15	4.55	< 10	40	0.05	< 10	1.99
WS-2	201	202	300	-----	< 0.2	1.29	28	110	< 0.5	< 2	0.15	< 0.5	35	1065	14	4.94	< 10	20	0.04	< 10	2.27

CERTIFICATION: Hart Riches



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CERTIFICATE OF ANALYSIS	A9828520
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SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MS-1	201	202	5340	< 1	0.01	519	1480	8	< 2	1	16	0.01	< 10	< 10	43	< 10	136
MS-2	201	202	930	< 1	0.01	532	940	6	< 2	4	12	0.03	< 10	< 10	47	< 10	120

CERTIFICATION:

APPENDIX 5

Soil Geochemistry - Assay Results



Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

A9828522

Comments: ATTN: RICK DIMENT

CERTIFICATE **A9828522**

(OQN) - VICEROY EXPLORATION (CANADA), INC.

Project: 4340-03
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 29-AUG-1998.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
201	59	Dry, sieve to -80 mesh
202	59	save reject
229	59	ICP - AQ Digestion charge

* NOTE 1:
 The 32 element ICP package is suitable for trace metals in soil and rock samples. Elements for which the nitric-aqua regia digestion is possibly incomplete are: Al, Ba, Be, Ca, Cr, Ga, K, La, Mg, Na, Sr, Ti, Tl, W.

ANALYTICAL PROCEDURES					
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION	METHOD	DETECTION LIMIT	UPPER LIMIT
983	59	Au ppb: Fuse 30 g sample	FA-AAS	5	10000
100	0	Au ppb: Fuse 10 g sample	FA-AAS	5	10000
2118	59	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	59	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	59	As ppm: 32 element, soil & rock	ICP-AES	2	10000
2121	59	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	59	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	59	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	59	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	59	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	59	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	59	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	59	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	59	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	59	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
20	59	Hg ppb: HNO3-HCl digestion	AAS-FLAMELESS	10	100000
2132	59	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	59	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	59	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	59	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	59	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	59	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	59	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	59	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	59	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
2141	59	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	59	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	59	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	59	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	59	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	59	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	59	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	59	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	59	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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CERTIFICATE OF ANALYSIS A9828522

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	%	ppm	%
A	201	202	< 5	-----	< 0.2	3.32	12	80	< 0.5	< 2	0.22	< 0.5	24	244	52	3.88	< 10	10	0.15	< 10	1.66
A+150SE	201	202	< 5	-----	< 0.2	2.36	8	60	< 0.5	< 2	0.14	< 0.5	17	271	29	3.82	< 10	< 10	0.07	< 10	1.15
A+300SE	201	202	< 5	-----	< 0.2	2.60	6	70	< 0.5	2	0.18	< 0.5	23	345	33	4.45	< 10	10	0.07	< 10	1.46
A+450SE	201	202	< 5	-----	< 0.2	1.05	8	40	< 0.5	< 2	0.09	< 0.5	33	1270	22	4.57	< 10	10	0.03	< 10	1.29
A+600SE	201	202	< 5	-----	< 0.2	1.57	6	60	< 0.5	< 2	0.15	< 0.5	19	377	14	3.58	< 10	< 10	0.04	< 10	1.41
A+750SE	201	202	< 5	-----	< 0.2	1.20	10	50	< 0.5	< 2	0.07	< 0.5	34	963	9	4.67	< 10	< 10	0.03	< 10	1.03
A+900SE	201	202	105	-----	< 0.2	0.93	6	40	< 0.5	< 2	0.05	< 0.5	32	855	9	3.57	< 10	< 10	0.02	< 10	1.18
A+1050SE	201	202	175	-----	< 0.2	1.24	8	60	< 0.5	< 2	0.08	< 0.5	53	1135	13	6.12	< 10	< 10	0.03	< 10	1.38
A+1200SE	201	202	20	-----	< 0.2	1.74	18	100	0.5	< 2	0.06	< 0.5	39	508	10	5.04	< 10	10	0.06	10	1.02
A+1350SE	201	202	10	-----	< 0.2	1.61	40	120	0.5	< 2	0.08	< 0.5	82	848	18	7.30	< 10	< 10	0.04	10	2.28
B	201	202	80	-----	< 0.2	1.41	20	90	< 0.5	< 2	0.09	< 0.5	45	640	11	4.95	< 10	10	0.04	10	1.34
B+150SE	201	202	125	-----	< 0.2	1.03	22	70	< 0.5	< 2	0.08	< 0.5	37	683	10	4.04	< 10	< 10	0.04	10	1.00
B+300SE	201	202	50	-----	< 0.2	1.09	8	80	< 0.5	< 2	0.09	< 0.5	53	846	19	5.78	< 10	< 10	0.05	10	1.55
B+450SE	201	202	10	-----	< 0.2	1.50	10	80	< 0.5	< 2	0.11	< 0.5	24	495	13	3.86	< 10	< 10	0.05	10	0.90
B+600SE	201	202	755	-----	< 0.2	1.71	88	130	0.5	< 2	0.07	< 0.5	130	1215	20	12.05	< 10	30	0.04	< 10	1.77
B+750SE	201	202	105	-----	< 0.2	1.20	88	90	< 0.5	< 2	0.08	< 0.5	37	687	15	4.98	< 10	< 10	0.04	10	1.04
B+900SE	201	202	70	-----	< 0.2	1.13	36	50	< 0.5	< 2	0.08	< 0.5	29	632	12	3.90	< 10	< 10	0.03	10	0.78
B+1050SE	201	202	< 5	-----	< 0.2	1.22	4	60	< 0.5	< 2	0.09	< 0.5	15	547	8	2.85	< 10	< 10	0.04	10	0.82
B+1200SE	201	202	400	-----	< 0.2	1.18	6	60	< 0.5	< 2	0.10	< 0.5	13	515	6	2.42	< 10	< 10	0.03	10	0.93
B+1350SE	201	202	< 5	-----	< 0.2	1.74	14	70	< 0.5	< 2	0.14	< 0.5	20	613	24	3.17	< 10	< 10	0.03	10	1.55
C+75SE	201	202	60	-----	< 0.2	1.97	8	70	< 0.5	< 2	0.09	< 0.5	13	248	20	2.73	< 10	< 10	0.04	10	0.91
C+225SE	201	202	< 5	-----	< 0.2	2.70	6	60	< 0.5	< 2	0.09	< 0.5	18	199	117	3.16	< 10	< 10	0.04	10	1.45
C+375SE	201	202	< 5	-----	< 0.2	2.53	< 2	70	< 0.5	< 2	0.09	< 0.5	14	163	45	2.80	< 10	< 10	0.04	10	1.15
C+525SE	201	202	< 5	-----	< 0.2	2.11	2	110	< 0.5	< 2	0.16	< 0.5	15	157	34	2.79	< 10	< 10	0.05	10	1.27
C+675SE	201	202	< 5	-----	< 0.2	2.21	< 2	70	< 0.5	< 2	0.15	< 0.5	14	184	40	2.92	< 10	10	0.04	10	1.17
C+825SE	201	202	< 5	-----	< 0.2	1.93	4	80	< 0.5	< 2	0.21	< 0.5	20	343	46	3.04	< 10	< 10	0.02	10	1.78
C+975SE	201	202	< 5	-----	< 0.2	1.86	8	80	< 0.5	< 2	0.15	< 0.5	19	277	37	2.70	< 10	< 10	0.03	10	1.47
C+1125SE	201	202	< 5	-----	< 0.2	1.97	8	50	< 0.5	< 2	0.09	< 0.5	9	164	18	1.89	< 10	< 10	0.03	10	0.79
C+1275SE	201	202	< 5	-----	< 0.2	2.09	8	70	< 0.5	< 2	0.11	< 0.5	13	219	29	2.52	< 10	10	0.03	10	1.08
D	201	202	5	-----	< 0.2	3.75	8	120	< 0.5	< 2	0.11	< 0.5	12	198	52	3.01	< 10	< 10	0.05	10	1.02
D+150SE	201	202	< 5	-----	< 0.2	1.92	12	90	< 0.5	< 2	0.17	< 0.5	13	216	34	2.33	< 10	< 10	0.03	10	1.23
D+300SE	201	202	< 5	-----	< 0.2	2.23	< 2	70	< 0.5	< 2	0.10	< 0.5	7	128	17	1.68	< 10	10	0.04	20	0.63
D+450SE	201	202	< 5	-----	< 0.2	2.36	2	100	< 0.5	< 2	0.16	< 0.5	15	212	30	2.71	< 10	10	0.05	20	1.12
D+600SE	201	202	< 5	-----	< 0.2	2.56	10	90	< 0.5	< 2	0.11	< 0.5	8	131	18	2.30	< 10	20	0.06	20	0.65
D+750SE	201	202	< 5	-----	< 0.2	1.60	< 2	80	< 0.5	< 2	0.13	< 0.5	18	339	27	2.51	< 10	< 10	0.02	10	1.40
D+900SE	201	202	< 5	-----	< 0.2	2.47	< 2	70	< 0.5	< 2	0.11	< 0.5	10	158	19	2.52	< 10	< 10	0.04	10	0.68
D+1050SE	201	202	15	-----	< 0.2	2.04	10	80	< 0.5	< 2	0.12	< 0.5	23	372	27	2.92	< 10	10	0.03	10	1.33
D+1200SE	201	202	5	-----	< 0.2	1.86	6	60	< 0.5	< 2	0.07	< 0.5	9	205	13	2.19	< 10	10	0.03	10	0.70
D+1350SE	201	202	< 5	-----	< 0.2	1.36	2	100	< 0.5	< 2	0.14	< 0.5	17	257	19	2.43	< 10	< 10	0.03	20	1.04
E+75S	201	202	< 5	-----	< 0.2	1.76	10	70	< 0.5	< 2	0.09	< 0.5	10	195	15	2.19	< 10	20	0.04	10	0.82

CERTIFICATION: *Hart E. S. [Signature]*



Chemex Labs Ltd.

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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project : 4340-03
 Comments: ATTN: RICK DIMENT

Page : 1-B
 Total : 2
 Certificate Date: 29-AUG-1998
 Invoice No. : 19828522
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9828522

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
A	201 202	295	< 1	0.03	134	290	4	< 2	8	6	0.14	< 10	< 10	95	< 10	66
A+150SE	201 202	245	< 1	0.01	131	280	10	< 2	6	7	0.12	< 10	< 10	82	< 10	64
A+300SE	201 202	305	< 1	0.02	199	300	6	< 2	7	6	0.15	< 10	< 10	82	< 10	70
A+450SE	201 202	455	< 1	< 0.01	470	240	< 2	< 2	9	5	0.04	< 10	< 10	43	< 10	36
A+600SE	201 202	325	< 1	< 0.01	185	260	6	< 2	5	9	0.10	< 10	< 10	51	< 10	56
A+750SE	201 202	550	< 1	< 0.01	363	270	2	< 2	7	5	0.04	< 10	< 10	38	< 10	36
A+900SE	201 202	550	< 1	< 0.01	376	210	< 2	< 2	6	4	0.04	< 10	< 10	29	< 10	28
A+1050SE	201 202	1135	< 1	< 0.01	470	350	2	< 2	11	5	0.05	< 10	< 10	46	< 10	44
A+1200SE	201 202	1215	< 1	< 0.01	266	550	12	< 2	9	8	0.04	< 10	< 10	43	< 10	62
A+1350SE	201 202	2620	< 1	< 0.01	488	550	6	< 2	12	8	0.04	< 10	< 10	50	< 10	64
B	201 202	1225	< 1	< 0.01	315	400	8	< 2	9	8	0.05	< 10	< 10	45	< 10	56
B+150SE	201 202	820	< 1	< 0.01	321	230	2	< 2	7	7	0.04	< 10	< 10	33	< 10	42
B+300SE	201 202	1185	< 1	< 0.01	313	480	6	< 2	10	7	0.04	< 10	< 10	42	< 10	46
B+450SE	201 202	410	< 1	< 0.01	212	310	8	< 2	6	9	0.07	< 10	< 10	45	< 10	56
B+600SE	201 202	3590	< 1	< 0.01	624	1020	2	< 2	16	6	0.04	< 10	< 10	54	< 10	134
B+750SE	201 202	915	< 1	< 0.01	424	350	4	< 2	9	8	0.04	< 10	< 10	35	< 10	52
B+900SE	201 202	530	< 1	< 0.01	356	280	4	< 2	6	7	0.05	< 10	< 10	34	< 10	54
B+1050SE	201 202	210	< 1	< 0.01	167	180	6	< 2	4	9	0.06	< 10	< 10	37	< 10	48
B+1200SE	201 202	185	< 1	< 0.01	152	150	2	< 2	4	9	0.05	< 10	< 10	42	< 10	40
B+1350SE	201 202	305	< 1	< 0.01	186	140	4	< 2	6	9	0.04	< 10	< 10	72	< 10	46
C	201 202	145	< 1	< 0.01	91	210	4	< 2	4	9	0.05	< 10	< 10	64	< 10	50
C+225SE	201 202	230	< 1	< 0.01	80	190	2	< 2	5	7	0.05	< 10	< 10	72	< 10	48
C+375SE	201 202	225	< 1	< 0.01	71	230	6	< 2	4	9	0.05	< 10	< 10	57	< 10	48
C+525SE	201 202	300	< 1	< 0.01	80	240	2	< 2	5	12	0.07	< 10	< 10	58	< 10	54
C+675SE	201 202	245	< 1	< 0.01	99	280	6	< 2	4	11	0.07	< 10	< 10	58	< 10	58
C+825SE	201 202	340	< 1	< 0.01	183	140	2	< 2	6	10	0.08	< 10	< 10	67	< 10	42
C+975SE	201 202	295	< 1	< 0.01	155	160	2	< 2	5	10	0.06	< 10	< 10	55	< 10	46
C+1125SE	201 202	125	< 1	< 0.01	70	200	6	< 2	3	8	0.05	< 10	< 10	44	< 10	32
C+1275SE	201 202	235	< 1	< 0.01	114	180	6	< 2	4	9	0.05	< 10	< 10	48	< 10	46
D	201 202	180	< 1	< 0.01	154	380	6	< 2	5	10	0.06	< 10	< 10	58	< 10	56
D+150SE	201 202	210	< 1	< 0.01	103	100	2	< 2	4	12	0.07	< 10	< 10	47	< 10	42
D+300SE	201 202	120	< 1	< 0.01	51	320	6	< 2	1	11	0.04	< 10	< 10	40	< 10	34
D+450SE	201 202	255	< 1	< 0.01	113	210	6	< 2	5	13	0.07	< 10	< 10	49	< 10	56
D+600SE	201 202	160	< 1	< 0.01	65	310	6	< 2	3	11	0.05	< 10	< 10	43	< 10	50
D+750SE	201 202	265	< 1	< 0.01	219	110	4	< 2	4	10	0.06	< 10	< 10	40	< 10	40
D+900SE	201 202	170	< 1	< 0.01	90	440	6	< 2	3	9	0.04	< 10	< 10	35	< 10	60
D+1050SE	201 202	300	< 1	< 0.01	252	230	6	< 2	4	10	0.05	< 10	< 10	43	< 10	52
D+1200SE	201 202	145	< 1	< 0.01	99	250	2	< 2	3	7	0.04	< 10	< 10	34	< 10	42
D+1350SE	201 202	275	< 1	< 0.01	177	140	4	< 2	3	12	0.06	< 10	< 10	35	< 10	46
E+758	201 202	160	< 1	< 0.01	104	230	6	< 2	3	8	0.05	< 10	< 10	39	< 10	44

CERTIFICATION: *Hart K. Fisher*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

212 Brooksbank Ave., North Vancouver
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VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project: 4340-03
 Comments: ATTN: RICK DIMENT

Page: 2-A
 Total: 2
 Certificate Date: 29-AUG-1998
 Invoice No.: 19828522
 P.O. Number:
 Account: OQN

CERTIFICATE OF ANALYSIS

A9828522

SAMPLE	PREP CODE		Au ppb	Au ppb	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	FA+AA	FA+AA	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppb	%	ppm	%
E+225S	201	202	< 5	-----	< 0.2	1.22	4	110	< 0.5	< 2	0.17	< 0.5	20	340	15	2.64	< 10	< 10	0.04	20	1.43
E+375S	201	202	10	-----	< 0.2	1.38	6	80	< 0.5	< 2	0.11	< 0.5	15	289	11	2.20	< 10	< 10	0.03	10	1.30
E+525S	201	202	< 5	-----	< 0.2	1.97	8	90	< 0.5	< 2	0.10	< 0.5	13	256	13	3.05	< 10	10	0.05	20	1.07
E+675S	201	202	< 5	-----	< 0.2	2.15	8	110	< 0.5	< 2	0.12	< 0.5	18	139	16	2.80	< 10	10	0.07	20	0.83
E+825S	201	202	< 5	-----	< 0.2	2.23	6	100	< 0.5	< 2	0.14	< 0.5	16	202	17	2.96	< 10	30	0.06	10	0.97
E+975S	201	202	5	-----	< 0.2	1.44	6	130	< 0.5	< 2	0.16	< 0.5	18	348	21	2.73	< 10	< 10	0.03	30	1.44
E+1125S	201	202	40	-----	< 0.2	2.05	4	90	< 0.5	< 2	0.11	< 0.5	14	214	16	2.43	< 10	10	0.05	10	1.04
E+1275S	201	202	< 5	-----	< 0.2	1.37	8	80	< 0.5	< 2	0.11	< 0.5	16	274	19	2.18	< 10	< 10	0.02	10	1.19
E+1425S	201	202	< 5	-----	< 0.2	1.33	6	80	< 0.5	< 2	0.12	< 0.5	21	355	22	2.51	< 10	< 10	0.02	10	1.44
E+1575S	201	202	< 5	-----	< 0.2	1.38	4	70	< 0.5	< 2	0.09	< 0.5	9	197	10	1.79	< 10	< 10	0.03	10	0.85
E+1725S	201	202	< 5	-----	< 0.2	1.41	8	90	< 0.5	< 2	0.13	< 0.5	17	248	23	2.32	< 10	< 10	0.03	10	1.17
E+1875S	201	202	< 5	-----	< 0.2	1.29	2	90	< 0.5	< 2	0.16	< 0.5	21	377	29	2.63	< 10	< 10	0.03	10	1.55
E+2025S	201	202	< 5	-----	< 0.2	1.57	2	50	< 0.5	< 2	0.10	< 0.5	9	192	29	1.83	< 10	< 10	0.03	10	0.96
E+2175S	201	202	< 5	-----	< 0.2	2.55	10	80	< 0.5	< 2	0.12	< 0.5	21	331	75	2.84	< 10	10	0.04	10	2.05
E+2325S	201	202	< 5	-----	< 0.2	2.01	< 2	50	< 0.5	< 2	0.10	< 0.5	16	281	52	2.35	< 10	< 10	0.02	10	1.80
E+2475S	201	202	< 5	-----	< 0.2	3.47	6	100	< 0.5	< 2	0.07	< 0.5	12	241	95	2.84	< 10	20	0.05	10	1.35
E+2625S	201	202	< 5	-----	< 0.2	2.73	8	80	< 0.5	< 2	0.10	< 0.5	11	166	65	2.25	< 10	10	0.03	10	1.13
E+2775S	201	202	< 5	-----	< 0.2	4.16	6	130	< 0.5	< 2	0.11	< 0.5	19	322	172	2.99	< 10	20	0.03	< 10	2.15
E+2925S	201	202	5	-----	< 0.2	3.17	< 2	80	< 0.5	< 2	0.11	< 0.5	12	174	53	2.51	< 10	20	0.05	10	1.31

CERTIFICATION: Hartfichler



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CERTIFICATE OF ANALYSIS A9828522

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
E+2258	201 202	305	< 1	< 0.01	249	160	6	< 2	3	15	0.06	< 10	< 10	35	< 10	48
E+3758	201 202	215	< 1	< 0.01	192	150	8	< 2	3	11	0.05	< 10	< 10	36	< 10	42
E+5258	201 202	225	< 1	< 0.01	141	250	4	< 2	3	11	0.06	< 10	< 10	46	< 10	68
E+6758	201 202	235	< 1	< 0.01	164	310	8	< 2	3	12	0.05	< 10	< 10	39	< 10	76
E+8258	201 202	205	< 1	< 0.01	162	370	6	< 2	4	12	0.05	< 10	< 10	43	< 10	62
E+9758	201 202	305	< 1	< 0.01	244	120	6	< 2	4	15	0.07	< 10	< 10	40	< 10	52
E+11258	201 202	170	< 1	< 0.01	164	310	6	< 2	3	11	0.05	< 10	< 10	40	< 10	52
E+12758	201 202	225	< 1	< 0.01	188	140	6	< 2	3	9	0.04	< 10	< 10	34	< 10	40
E+14258	201 202	300	< 1	< 0.01	271	120	6	< 2	3	10	0.05	< 10	< 10	35	< 10	40
E+15758	201 202	150	< 1	< 0.01	115	170	6	< 2	2	9	0.04	< 10	< 10	33	< 10	36
E+17258	201 202	250	< 1	< 0.01	190	130	6	< 2	3	12	0.05	< 10	< 10	35	< 10	48
E+18758	201 202	300	< 1	< 0.01	258	150	4	< 2	3	13	0.06	< 10	< 10	39	< 10	42
E+20258	201 202	155	< 1	< 0.01	96	190	6	< 2	3	9	0.04	< 10	< 10	34	< 10	36
E+21758	201 202	225	< 1	< 0.01	275	200	2	< 2	4	10	0.04	< 10	< 10	44	< 10	48
E+23258	201 202	225	< 1	< 0.01	117	60	< 2	< 2	3	8	0.05	< 10	< 10	43	< 10	40
E+24758	201 202	170	< 1	< 0.01	114	230	8	< 2	4	8	0.04	< 10	< 10	59	< 10	54
E+26258	201 202	155	< 1	< 0.01	78	290	2	< 2	3	8	0.04	< 10	< 10	41	< 10	42
E+27758	201 202	210	< 1	< 0.01	164	220	< 2	< 2	5	6	0.05	< 10	< 10	62	< 10	46
E+29258	201 202	205	< 1	< 0.01	78	290	8	< 2	5	9	0.05	< 10	< 10	51	< 10	48

YUKON ENERGY, MINES
 & RESOURCES LIBRARY
 P.O. Box 2703
 Whitehorse, Yukon Y1A 2C8

CERTIFICATION: Hart Fickler

**Summary of Work
Stewart River Area
Yukon Territory, N.T.S. 115 P/8**

for

**Yukon Mining Incentives Program
Economic Development
Government of the Yukon
Box 2703, Whitehorse, Yukon Y1A 2C6**

File Number 98-016

**John Peter Ross, Prospector
November, 1998**

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Appendix 3: Rock Sample Descriptions	
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Chapter One: INTRODUCTION

1.1 Introductory Statement

The Stewart River (ET claim group) area, map sheet 115 P/8, was chosen because;

1. Discussions with Ken Galambos, Mineral Development Geologist (Yukon Geology Program) has made me aware of the potential of the area.
2. One can drive to the area on a 2-wheel drive highway.
3. Yukon MINFILE #42, McGuinty, suggests a possible gold deposit is present. Three streams ran 124 ppb Au, 102 ppb Au, 273 ppb Au in -200 mesh silt samples; 103 ppb Au, 2665 ppb Au, 1438 ppb Au in pan concentrate samples.
4. The area is at the southeast end of a 25 km trend of linears (northwest to southeast). To the southeast of the Stewart River, the trend bends (?).
5. The Geology and mineralization may be similar to the Brewery Creek deposit.
6. Most of the economic placer gold bar deposits on the Stewart River are found downstream of this location. (Bob Stirling, personal communication).

1.2 Location and Access

Access was by truck on an all-season road (Silver Trail) about 15 miles northeast of Stewart Crossing.

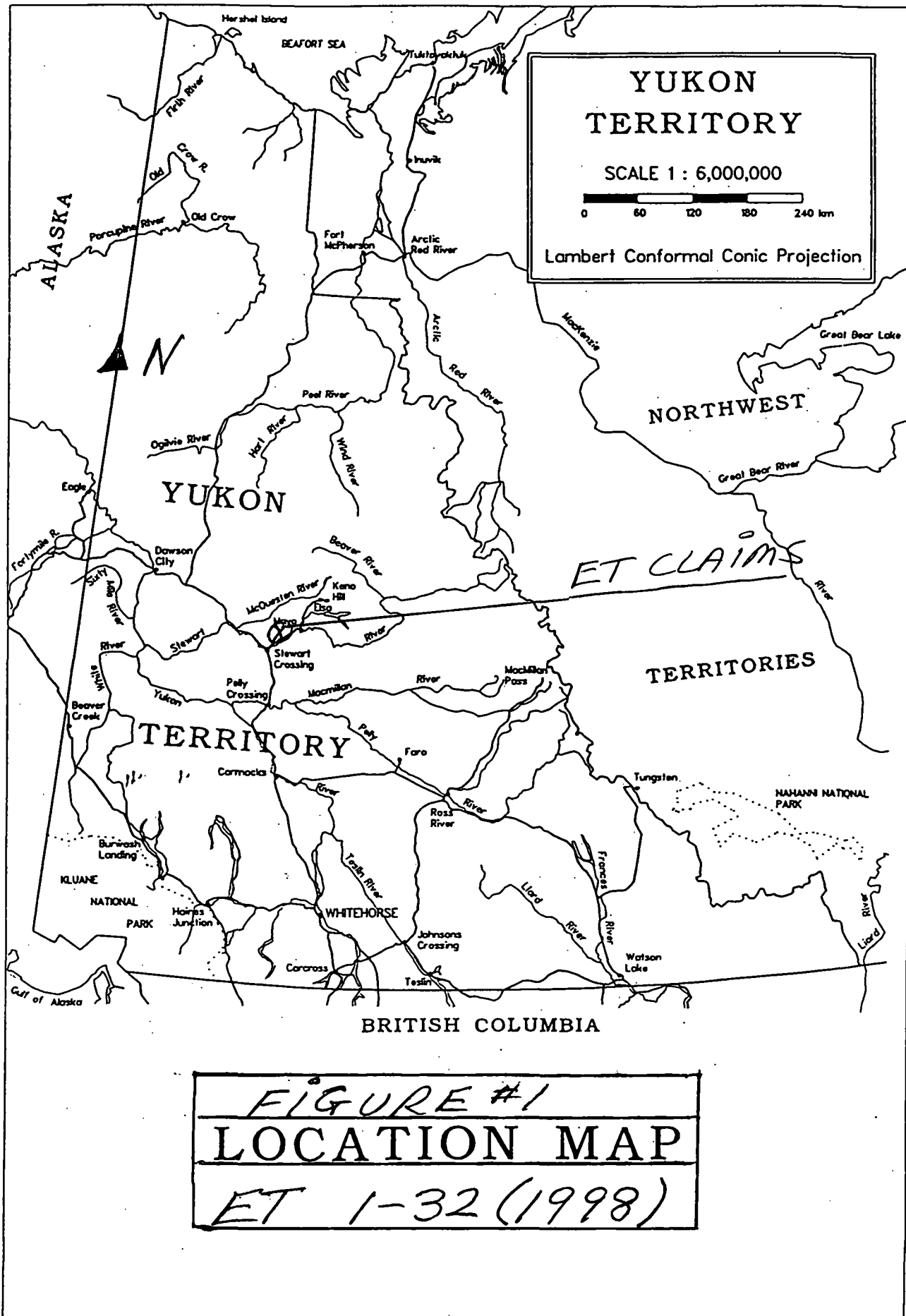


FIGURE #1
LOCATION MAP
ET 1-32 (1998)

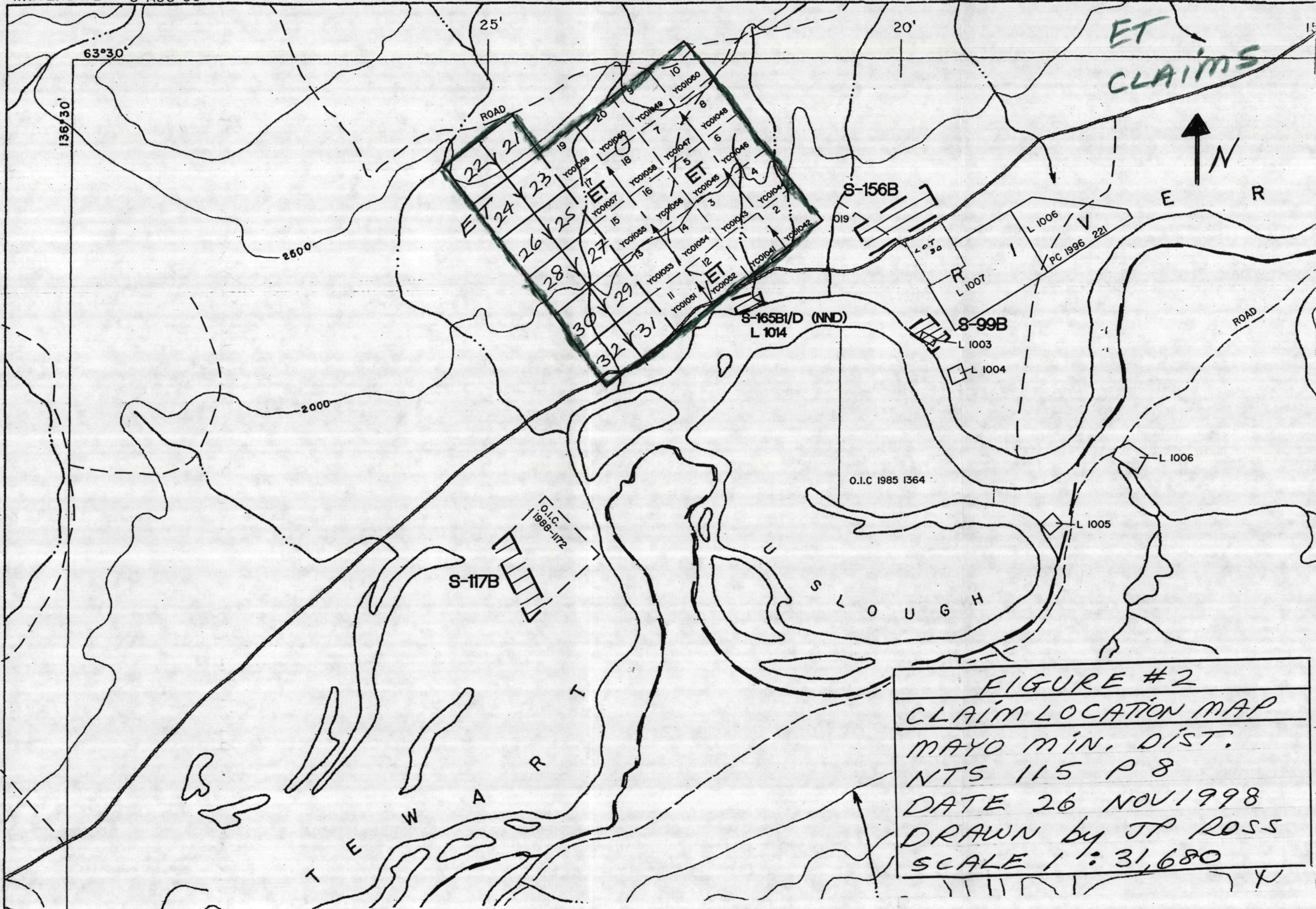
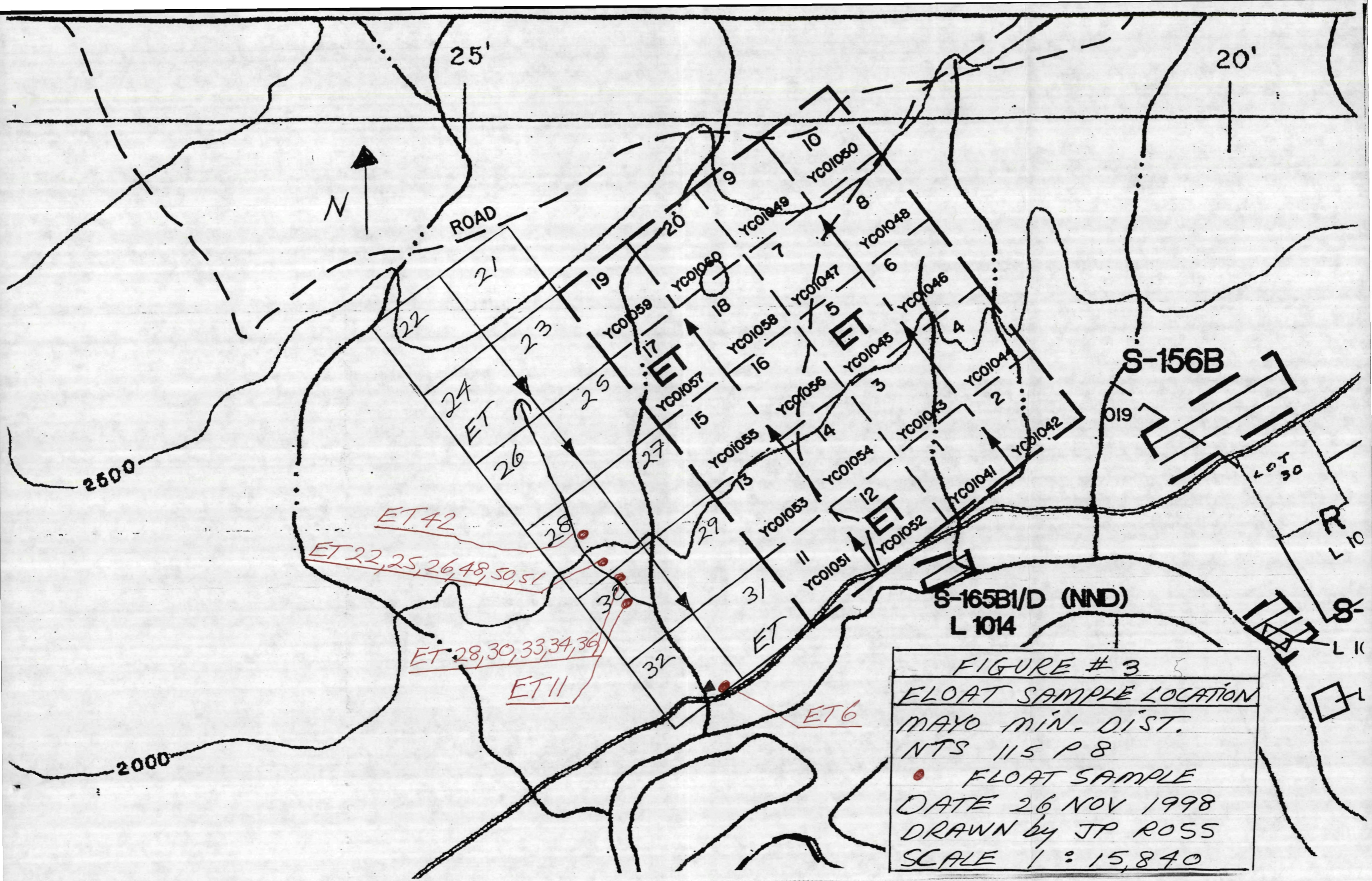


FIGURE #2
 CLAIM LOCATION MAP
 MAYO MIN. DIST.
 NTS 115 P 8
 DATE 26 NOV 1998
 DRAWN by JP ROSS
 SCALE 1" : 31,680



ROAD

2500

2000

ET 42

ET 22, 25, 26, 48, 50, 51

ET 28, 30, 33, 34, 36

ET 11

ET 6

S-165B1/D (NND)
L 1014

S-156B

LOT 30

FIGURE # 3
 FLOAT SAMPLE LOCATION
 MAYO MIN. DIST.
 NTS 115 P 8
 ● FLOAT SAMPLE
 DATE 26 NOV 1998
 DRAWN by JP ROSS
 SCALE 1 : 15,840

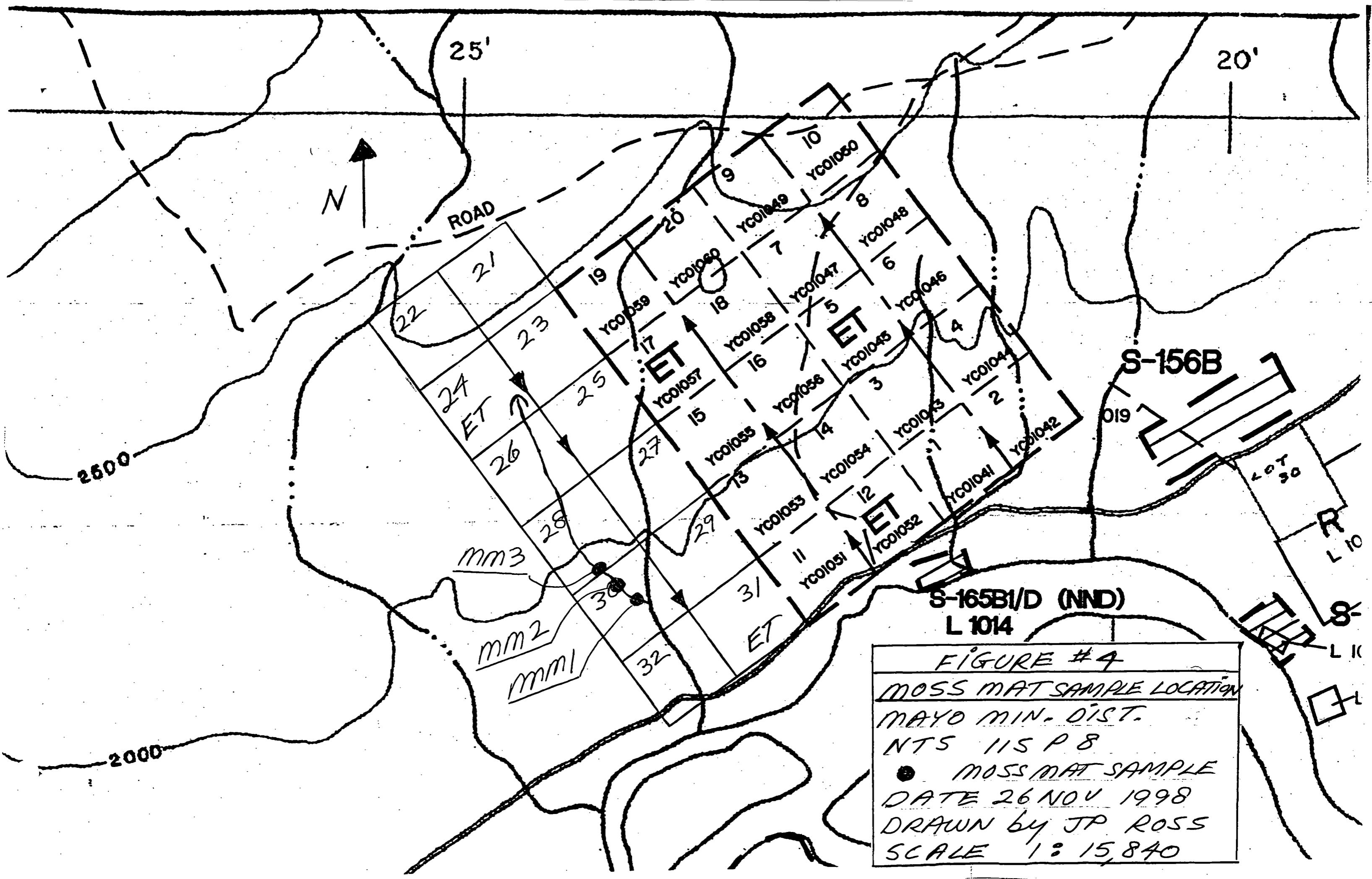
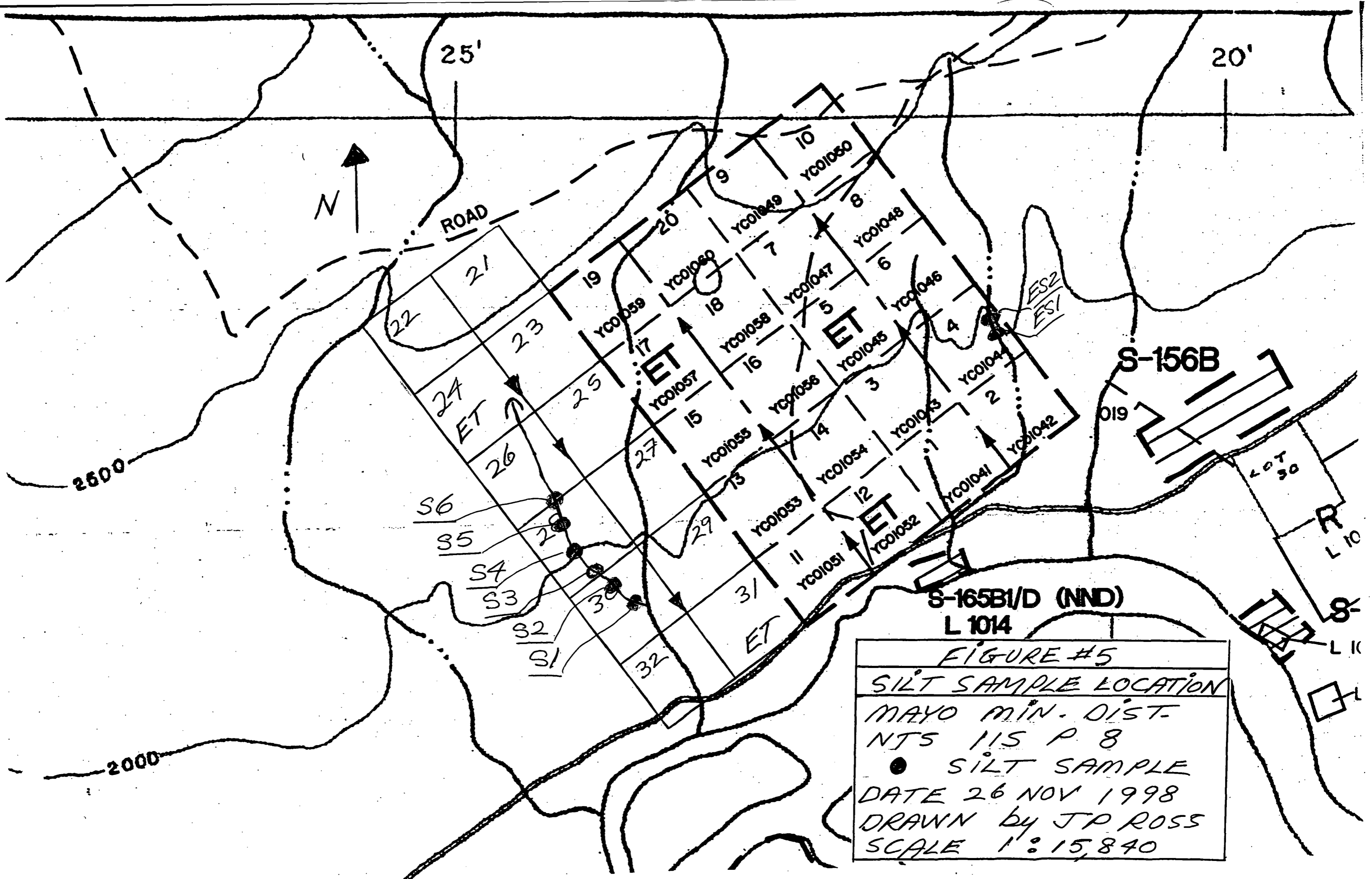


FIGURE #4
 MOSS MAT SAMPLE LOCATION
 MAYO MIN. DIST.
 NTS 115 P 8
 ● MOSS MAT SAMPLE
 DATE 26 NOV 1998
 DRAWN by JP ROSS
 SCALE 1:15,840



S-165B1/D (NND)
L 1014
 FIGURE #5
 SILT SAMPLE LOCATION
 MAYO MIN. DIST.
 NTS 115 P 8
 ● SILT SAMPLE
 DATE 26 NOV 1998
 DRAWN by JP ROSS
 SCALE 1:15,840

Chapter Two: SUMMARY

The ET 1-20 and ET 21-32 claims were staked and recorded by J.P. Ross.

On the second trip; fourteen (14) rock samples (12 bedrock and 2 float rock), three (3) moss mat, and eight (8) silt samples were taken and tested. All of the analyses were paid for by Viceroy Resource Corporation in return for a right of first refusal on the claims.

All of the rock samples ran <5 ppb Au. The 3 moss mat samples ran, 75 ppb Au, 10 ppb Au, 30 ppb Au.

All of the silt samples were highly anomalous, ranging from 175 ppb Au to 2550 ppb Au.

Dates worked in 1998 were April 23-30, May 1-4, August 19-31 and September 1-12.

Chapter Three: GEOCHEMICAL SURVEY

3.1 Soil Geochemistry

No soil samples were taken.

3.1 Rock Geochemistry

Fourteen (14) rocks were tested for Au 30g fire assay and 32 element ICP. All rocks returned very low gold values (<5 ppb Au). Sample locations were marked with flagging tape ± paint.

3.3 Moss Mat Geochemistry

Three (3) moss mat samples were taken. MM1 at 0+000 feet (bottom of stream), MM2 at 0+500' upstream and MM3 at 0+1000'. It was quite difficult to get samples so only 3 were taken. The 3 samples were weakly anomalous for gold. The samples (from several local locations) were passed through a -8 mesh screen into a 20 l. pail in order to get 2 bags full. The samples were tested for -80 mesh Au 30g fire assay and 32 element ICP. Sample locations were marked with flagging tape.

3.4 Silt Geochemistry

Eight (8) silt samples were taken. The samples (from 5-6 or more locations) were passed through a -8 mesh screen into a 20 l. pail to get 2 bags full. The samples were tested for -80 mesh Au 30g fire assay and 32 element ICP. The sample locations were marked with flagging tape. S1 was taken at 0+000 feet (bottom of the stream), S2 at 0+500' upstream, S3 - 0+1000', S4 - 0+1500', S5 - 0+2000', S6 - 0+2500'.

ES1 was taken in fast water above an agricultural dam; ES2 about 50 feet above ES1 in slower water. I am not sure where ES1 and ES2 are on the map.

All 8 silt samples are highly anomalous for gold and weakly anomalous for As and Ba.

3.5 Interpretation

The geology of the area is mapped as Late Proterozoic -Early Cambrian as schist, quartzite and phyllite. Mineralization here would be Brewery Creek Au type or similar to the Wayne deposit which is located near Elsa and the United Keno Hill mines.

I concentrated on this small creek because;

1. it is short and has bedrock exposures
2. a -200 mesh silt sample ran 269 ppb Au
3. it has 3-4 times as much water as a much longer stream and the source is a sink hole like I have seen on television (Florida-Louisiana) where houses fall into collapsed ground.

The high -80 mesh values for Au (170 to 2550 ppb) surprised me and Viceroy Resources as well, because there seems to be no indicator elements present (or they may be subdued).

A calcite precipitate was seen on bedrock between sample S1 to S3 and also about 50' down from the bridge on the hill beside the creek, about 1500 feet of exposure.

Leaf and twig imprints are seen in the precipitate. The calcite (in float) was observed beside a stream bend on ET19, in the stream by the highway on ET1 and in the stream at samples ES1 and ES2.

Only three creeks along the highway in this area were found to be anomalous for -200 mesh Au. Some old-timers thought this might be a source of the Stewart River bar gold. No magnetic anomalies are present. Buried intrusions may be present. Northwest-southeast trending air photo linears pass through this area. The calcium precipitate is coming from a limy horizon not yet located.

The target area may be up to 30 km² or more. The target deposit type is unknown.

Viceroy Resources plans to screen all remaining silt samples to -200 mesh and test for Au 30g fire assay. It is possible that the gold comes from a placer deposit.

The ET claims have enough work to hold them for 1 year. The claims are on the road and I plan to keep all claims and do further work. I am not sure what I should do in the future as to work.

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
Box 4842
Whitehorse, Yukon
Canada. Y1A 4N8
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 -- BC & Yukon Chamber of Mines, Prospecting Course
1978 -- United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 -- Yukon Chamber of Mines, Advanced Prospecting Course
1991 -- Exploration Geochemistry Workshop, GSC Canada
1994 -- Diamond Exploration Short Course, Yukon Geoscience Forum
1994 -- Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 -- Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 -- Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 -- Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 -- Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 -- New Mineral Deposit Models of the Cordillera, MDRU
1997 -- Geochemical Exploration in Tropical Environments, MDRU
1998 -- Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors' Assistance and Yukon Mining Incentive Program 1986 - 1998
6. have been on the British Columbia Prospectors' Assistance Program 1989 - 1990
7. have a 100% interest in the claims described in this report at the present time

John Peter Ross

28 / Nov / 1998

APPENDIX 1

References

Assessment Report 093206, Sleeper 10-29, 115 P/8 by Ken Galambos.

Yukon MINFILE 115 P 042, McGuinty

Personal Communication

Ken Galambos, Mineral Development Geologist, Yukon Geology Program
Bob Stirling, Stewart River placer miner
Assistant Mining Recorder, Mayo Mining District.

YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE

NAME(S): McGuinty
MINFILE #: 115P 042
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 8
LATITUDE: 63°28'47"N
LONGITUDE: 136°23'00"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

DAVID, HALONA, PAN, SLEEPER

WORK HISTORY

Staked as David & Halona cl (YA41512) in Nov/79 by C. Charette and as Pan cl (YA43488) in Jan/81 by S. Schmidt. The Sleeper 10-29 cl (YB29730) were staked 2.5 km to the northwest in May/93.

GEOLOGY

The earlier claims are probably underlain by Late Proterozoic-Early Cambrian schist, quartzite, and phyllite and may have been staked to protect surface rights.

Bulk silt (-200 mesh) samples and pan concentrates collected in 1992 returned values of 273 ppb and 2665 ppb gold, respectively.

REFERENCES

K.D. Galambos, Mar/94. Assessment Report #093206 by K.D. Galambos.

APPENDIX 2

Rock Geochemistry - Assay Results



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

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project: ET CLAIMS
 Comments: ATTN: RICK DIMENT

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 14-NOV-1998
 Invoice No. : I9835494
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9835494

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 ppb	K %	La ppm	Mg %	Mn ppm
ET-6	205 226	< 5	< 0.2	1.06	2	90	< 0.5	< 2	0.05	< 0.5	6	165	14	1.89	< 10	< 10	0.11	10	0.38	430
ET-11	205 226	< 5	< 0.2	0.12	< 2	110	< 0.5	< 2	>15.00	0.5	< 1	18	13	0.19	< 10	< 10	0.08	< 10	0.40	35
ET-22	205 226	< 5	< 0.2	1.73	< 2	130	< 0.5	< 2	0.17	< 0.5	7	97	63	3.02	< 10	< 10	0.42	40	0.59	210
ET-25	205 226	< 5	< 0.2	1.50	< 2	110	< 0.5	< 2	0.54	< 0.5	14	99	43	2.85	< 10	< 10	0.36	40	0.51	250
ET-26	205 226	< 5	< 0.2	2.55	2	80	< 0.5	< 2	0.41	< 0.5	18	182	63	3.80	< 10	< 10	0.29	40	1.42	445
ET-28	205 226	< 5	< 0.2	1.76	< 2	20	< 0.5	< 2	0.05	< 0.5	9	144	25	3.07	< 10	< 10	0.04	10	0.79	365
ET-30	205 226	< 5	< 0.2	1.44	< 2	60	< 0.5	< 2	0.03	< 0.5	7	127	15	2.11	< 10	< 10	0.14	10	0.75	280
ET-33	205 226	< 5	< 0.2	1.56	< 2	30	< 0.5	< 2	0.01	< 0.5	11	161	26	2.72	< 10	< 10	0.03	10	0.69	365
ET-34	205 226	< 5	< 0.2	3.28	2	30	< 0.5	< 2	1.25	< 0.5	27	326	78	3.34	< 10	20	0.06	< 10	3.02	655
ET-36	205 226	< 5	< 0.2	2.11	< 2	90	< 0.5	< 2	0.05	< 0.5	10	79	48	3.65	< 10	< 10	0.20	40	0.74	385
ET-42	205 226	< 5	< 0.2	0.75	< 2	40	< 0.5	< 2	0.04	< 0.5	8	193	22	1.46	< 10	10	0.04	< 10	0.26	225
ET-48	205 226	< 5	< 0.2	0.26	< 2	100	< 0.5	< 2	1.42	< 0.5	3	121	2	0.41	< 10	30	0.16	10	0.07	710
ET-50	205 226	< 5	< 0.2	0.13	< 2	20	< 0.5	< 2	0.03	< 0.5	3	210	4	0.39	< 10	10	0.04	< 10	0.04	35
ET-51	205 226	< 5	< 0.2	0.07	< 2	20	< 0.5	< 2	0.04	< 0.5	< 1	207	1	0.23	< 10	< 10	0.05	< 10	< 0.01	45

CERTIFICATION: Hart Richter



Chemex Labs Ltd.

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Project: ET CLAIMS
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Page Number : 1-B
 Total Pages : 1
 Certificate Date: 14-NOV-1998
 Invoice No. : 19835494
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9835494

SAMPLE	PREP CODE	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
ET-6	205 226	1	0.01	16	140	6	< 2	1	10	< 0.01	< 10	< 10	11	< 10	28
ET-11	205 226	3	< 0.01	2	100	6	< 2	< 1	330	< 0.01	< 10	< 10	4	< 10	18
ET-22	205 226	1	0.01	17	360	< 2	< 2	1	12	< 0.01	< 10	< 10	8	< 10	52
ET-25	205 226	1	0.01	30	390	8	< 2	1	22	< 0.01	< 10	< 10	9	< 10	60
ET-26	205 226	1	0.01	57	300	10	< 2	3	19	0.01	< 10	< 10	26	< 10	74
ET-28	205 226	1	< 0.01	39	70	10	< 2	< 1	14	< 0.01	< 10	< 10	10	< 10	70
ET-30	205 226	< 1	0.02	18	110	4	< 2	1	8	< 0.01	< 10	< 10	12	< 10	36
ET-33	205 226	< 1	< 0.01	54	70	6	< 2	< 1	18	< 0.01	< 10	< 10	9	< 10	64
ET-34	205 226	< 1	0.05	192	1070	14	2	4	58	0.23	< 10	< 10	46	< 10	132
ET-36	205 226	1	0.02	19	200	6	< 2	1	22	0.01	< 10	< 10	12	< 10	80
ET-42	205 226	1	0.02	27	100	12	< 2	< 1	4	< 0.01	< 10	< 10	5	< 10	36
ET-48	205 226	2	0.01	7	240	2	< 2	< 1	72	< 0.01	< 10	< 10	3	< 10	18
ET-50	205 226	1	< 0.01	9	30	< 2	< 2	< 1	1	< 0.01	< 10	< 10	1	< 10	6
ET-51	205 226	1	< 0.01	5	40	2	< 2	< 1	2	< 0.01	< 10	< 10	1	< 10	< 2

CERTIFICATION: *[Signature]*

APPENDIX 3

Rock Sample Descriptions

<u>Sample Number</u>	<u>Description</u>
ET6	in glacial till; silicious / cherty sediment, possible replacement; compositional layering, minor bull quartz veining
ET11	bedrock; vuggy carbonate calcite pumice texture, some areas had twig and leaf imprints
ET22	bedrock; schistose phyllite-very calcareous, MnO ₂ stain along the bedding, vuggy in places
ET25	bedrock; similar to ET26, more calcareous
ET26	bedrock; well laminated, schistose phyllite, no carbonate, weakly calcareous
ET28	bedrock; silicious phyllite / quartzite, well developed foliation, minor disseminated pyrrhotite
ET30	bedrock; well foliated silicious quartzite/phyllite
ET33	bedrock; well foliated silicious quartzite/phyllite
ET34	bedrock; micro fractured / stockworked grit - meta-greywacke
ET36	bedrock; well laminated silicious phyllite, schistose
ET42	float; (similar to ET6) silicious / cherty sediment, possible replacement; compositional layering, minor bull quartz veining
ET48	bedrock; well foliated silicious quartzite/phyllite
ET50	bedrock; bull quartz vein, MnO ₂ stains
ET51	bedrock; bull quartz vein, MnO ₂ stains

APPENDIX 4

Moss Mat Geochemistry - Assay Results



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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PHONE: 604-984-0221. FAX: 604-984-0218

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20 MACDONALD RD.
WHITEHORSE, YT
Y1A 4L2

Project: ET CLAIMS
Comments: ATTN: RICK DIMENT

Page Number :1-A
Total Pages :1
Certificate Date: 14-NOV-1998
Invoice No. :19835495
P.O. Number :
Account :OQN

CERTIFICATE OF ANALYSIS

A9835495

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppb	K %	La ppm	Mg %	Mn ppm
			FA+AA																		
MM1	201	202	75	< 0.2	0.48	8	200	< 0.5	< 2	0.55	< 0.5	4	11	13	1.29	< 10	< 10	0.04	10	0.26	225
MM2	201	202	10	< 0.2	0.53	8	240	< 0.5	< 2	0.50	< 0.5	4	13	12	1.30	< 10	10	0.04	10	0.27	200
MM3	201	202	30	< 0.2	0.54	6	240	< 0.5	< 2	0.69	< 0.5	5	13	15	1.24	< 10	30	0.04	10	0.29	270

CERTIFICATION: *W. K. Kehler*



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers
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 WHITEHORSE, YT
 Y1A 4L2

Project: ET CLAIMS
 Comments: ATTN: RICK DIMENT

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 14-NOV-1998
 Invoice No. : I9835495
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS

A9835495

SAMPLE	PREP CODE		Mo	Na	Ni	P	Pb	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
MM1	201	202	1 < 0.01		13	520	6	< 2	< 1	22	0.01	< 10	< 10	15	< 10	52
MM2	201	202	1 < 0.01		14	550	2	< 2	1	24	0.01	< 10	< 10	17	< 10	50
MM3	201	202	1 < 0.01		14	540	8	< 2	1	30	0.01	< 10	< 10	16	< 10	60

CERTIFICATION:

Hart Richter

APPENDIX 5

Silt Geochemistry - Assay Results



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

To: VICEROY EXPLORATION (CANADA), INC

20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project : ET CLAIMS
 Comments: ATTN: RICK DIMENT

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 14-NOV-1998
 Invoice No. : 19835496
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9835496

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 ppb	K %	La ppm	Mg %	Mn ppm
ES-1	201 202	335	< 0.2	0.63	12	590	< 0.5	< 2	0.77	< 0.5	7	24	17	2.52	< 10	10	0.04	30	0.43	300
ES-2	201 202	470	< 0.2	0.67	14	1020	< 0.5	< 2	0.75	< 0.5	8	38	20	3.78	< 10	10	0.04	50	0.41	380
S-1	201 202	1070	< 0.2	0.53	8	310	< 0.5	2	0.49	< 0.5	5	20	12	2.30	< 10	20	0.03	40	0.25	225
S-2	201 202	905	< 0.2	0.48	8	340	< 0.5	< 2	0.33	< 0.5	6	24	12	2.72	< 10	10	0.03	40	0.24	215
S-3	201 202	2550	< 0.2	0.51	10	290	< 0.5	< 2	0.34	< 0.5	5	18	12	2.20	< 10	10	0.03	30	0.24	225
S-4	201 202	760	0.6	0.56	10	410	< 0.5	< 2	0.36	< 0.5	6	22	13	2.51	< 10	10	0.03	40	0.27	240
S-5	201 202	1070	< 0.2	0.53	10	560	< 0.5	< 2	0.42	< 0.5	6	21	15	2.29	< 10	30	0.03	30	0.30	240
S-6	201 202	175	< 0.2	0.55	8	260	< 0.5	< 2	0.42	< 0.5	6	19	15	2.17	< 10	10	0.03	10	0.36	250

CERTIFICATION: Mark Richler



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

To: VICEROY EXPLORATION (CANADA), INC
 20 MACDONALD RD.
 WHITEHORSE, YT
 Y1A 4L2

Project: ET CLAIMS
 Comments: ATTN: RICK DIMENT

Page Number : 1-B
 Total Pages : 1
 Certificate Date: 14-NOV-1998
 Invoice No. : I9835496
 P.O. Number :
 Account : OQN

CERTIFICATE OF ANALYSIS A9835496

SAMPLE	PREP CODE		Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	Sb ppm	Sc ppm	Sr ppm	Tl %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
ES-1	201	202	1	< 0.01	23	850	4	< 2	1	37	0.03	< 10	< 10	41	< 10	80
ES-2	201	202	1	< 0.01	25	1010	6	< 2	1	44	0.06	< 10	< 10	69	< 10	84
S-1	201	202	1	< 0.01	16	610	6	< 2	1	21	0.05	< 10	< 10	36	< 10	54
S-2	201	202	1	< 0.01	16	650	8	< 2	1	20	0.04	< 10	< 10	45	< 10	52
S-3	201	202	< 1	< 0.01	16	560	6	< 2	1	19	0.05	< 10	< 10	34	< 10	50
S-4	201	202	1	< 0.01	17	720	12	< 2	1	22	0.06	< 10	< 10	41	< 10	56
S-5	201	202	1	< 0.01	17	720	6	< 2	1	23	0.04	< 10	< 10	37	< 10	58
S-6	201	202	1	< 0.01	19	660	6	< 2	1	21	0.03	< 10	< 10	28	< 10	66

CERTIFICATION: _____

Handwritten signature

**Summary of Work
Bedrock Creek Area
Yukon Territory, N.T.S. 115 N/15**

for

Yukon Mining Incentives Program
Economic Development
Government of the Yukon
Box 2703, Whitehorse, Yukon Y1A 2C6

File Number 98-016

John Peter Ross, Prospector
November, 1998

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Appendices

Appendix 1: References

Chapter One: INTRODUCTION

1.1 Introductory Statement

The Bedrock Creek (ERNI claim group) area, map sheet 115 N/15, was chosen because;

1. Placer gold occurs in this area.
2. Regional geochemical survey, silt samples no. 1031/32 are on Bedrock Creek and on the ERNI 19 claim (approximate). Sample 1031: Cu 38 ppm, Zn 240 ppm, Pb 10 ppm, Ba 1590 ppm, Au 59 ppb, Hg 70 ppm, As 10 ppm. Sample 1032: Au 18 ppb.
3. A magnetic anomaly similar to one on the UNI and CICI claim groups on 116 C/2 is present. The UNI and CICI claim groups have been under option to Madrona Mining Ltd. of Calgary for 3 years now. Madrona spent \$120,000 on an airborne geophysical survey and a limited soil sampling program.
4. One can drive to the site on a rough mining road.
5. The target was thought to be a Cu Mo Au porphyry similar to CASINO or TAURUS, 15 miles to the southwest in Alaska, USA, or a gold rich VMS similar to ESKAY CREEK in British Columbia.

1.2 Location and Access

Access was by truck about 75 miles west of Dawson City; Top of the World Highway and then a rough mining road sometimes requiring 4-wheel drive.

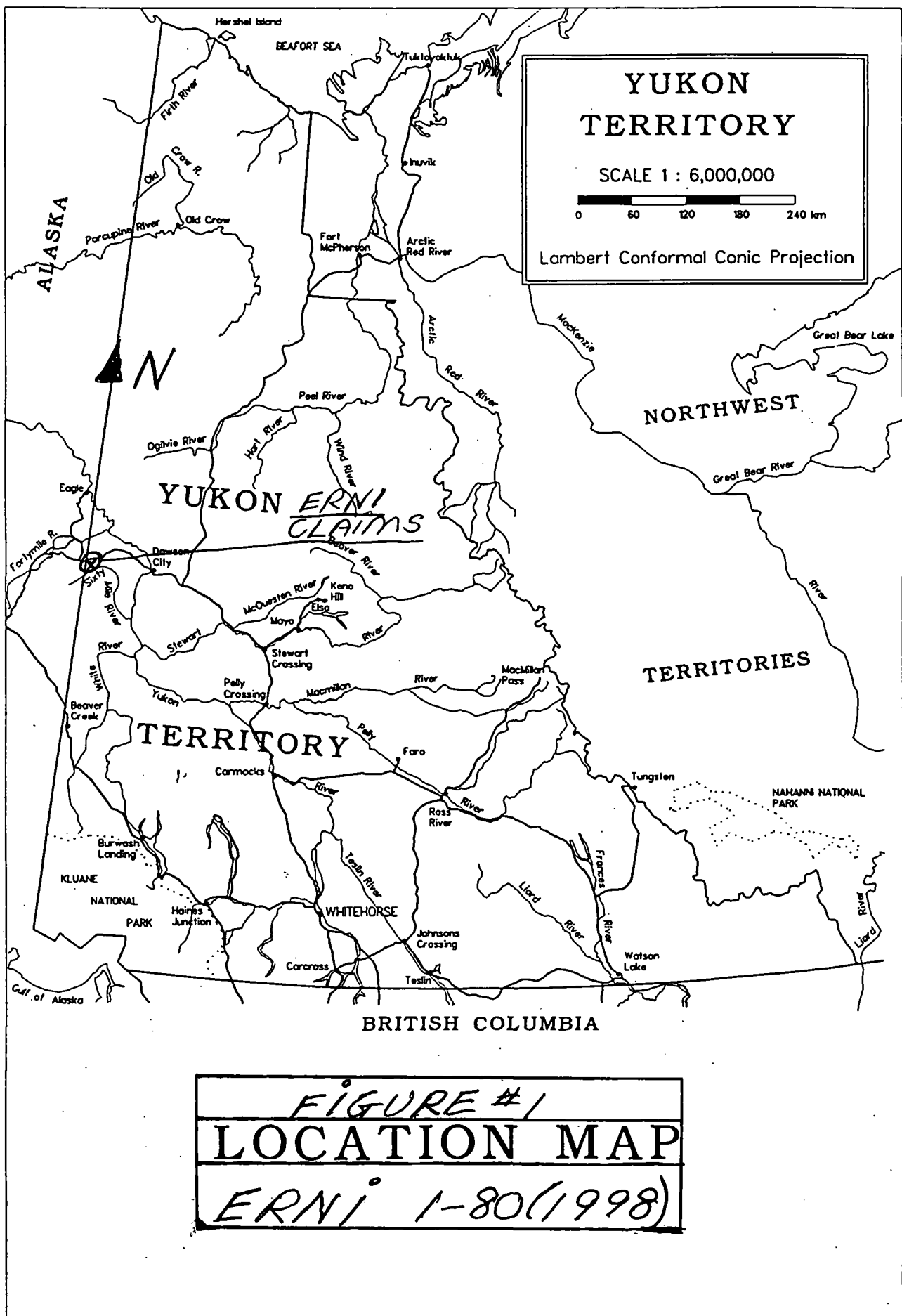




FIGURE #2
 CLAIM LOCATION MAP
 DAWSON MIN. DIST.
 NTS 115 N 15
 DATE 20 NOV 1998
 DRAWN BY JTP ROSS
 SCALE 1:31,680

115N 15E

EPNI 115-80

152	MOS	150	148	146	107	109	111	113	88	96	105	104	MOS
YC12247	YC12245	YC12243	YC12241	YC12208	YC12210	YC12212	YC12214	YC12190	YC12189	YC12197	YC12206	YC1221	MOS
155	151	149	147	145	106	110	112	87	86	94	103	102	
YC12248	YC12246	YC12244	YC12242	YC12207	YC12209	YC12211	YC12213	YC12187	YC12186	YC12195	YC12204	YC1221	
162	160	158	156	154	54	42	40	85	84	92	101	100	
YC12255	YC12253	YC12251	YC12249	YC12200	YC12202	YC12204	YC12206	YC12185	YC12184	YC12193	YC12202	YC1221	
163	161	159	157	155	51	39	40	83	82	90	99	98	
YC12256	YC12254	YC12252	YC12250	YC12201	YC12203	YC12205	YC12207	YC12183	YC12182	YC12191	YC12200	YC1221	
170	168	166	164	162	50	37	36	81	80	88	97	96	
YC12263	YC12261	YC12259	YC12257	YC12255	YC12202	YC12204	YC12206	YC12181	YC12180	YC12189	YC12200	YC1221	
171	169	167	165	163	48	35	34	79	78	86	95	94	
YC12263	YC12261	YC12259	YC12257	YC12255	YC12202	YC12204	YC12206	YC12181	YC12180	YC12189	YC12200	YC1221	

25 APR 90
04 DEC 89

141° 00'
06° 00' 40"

141°00'

55'

50'

40'

4269G "Sixty Mile"

64°00'

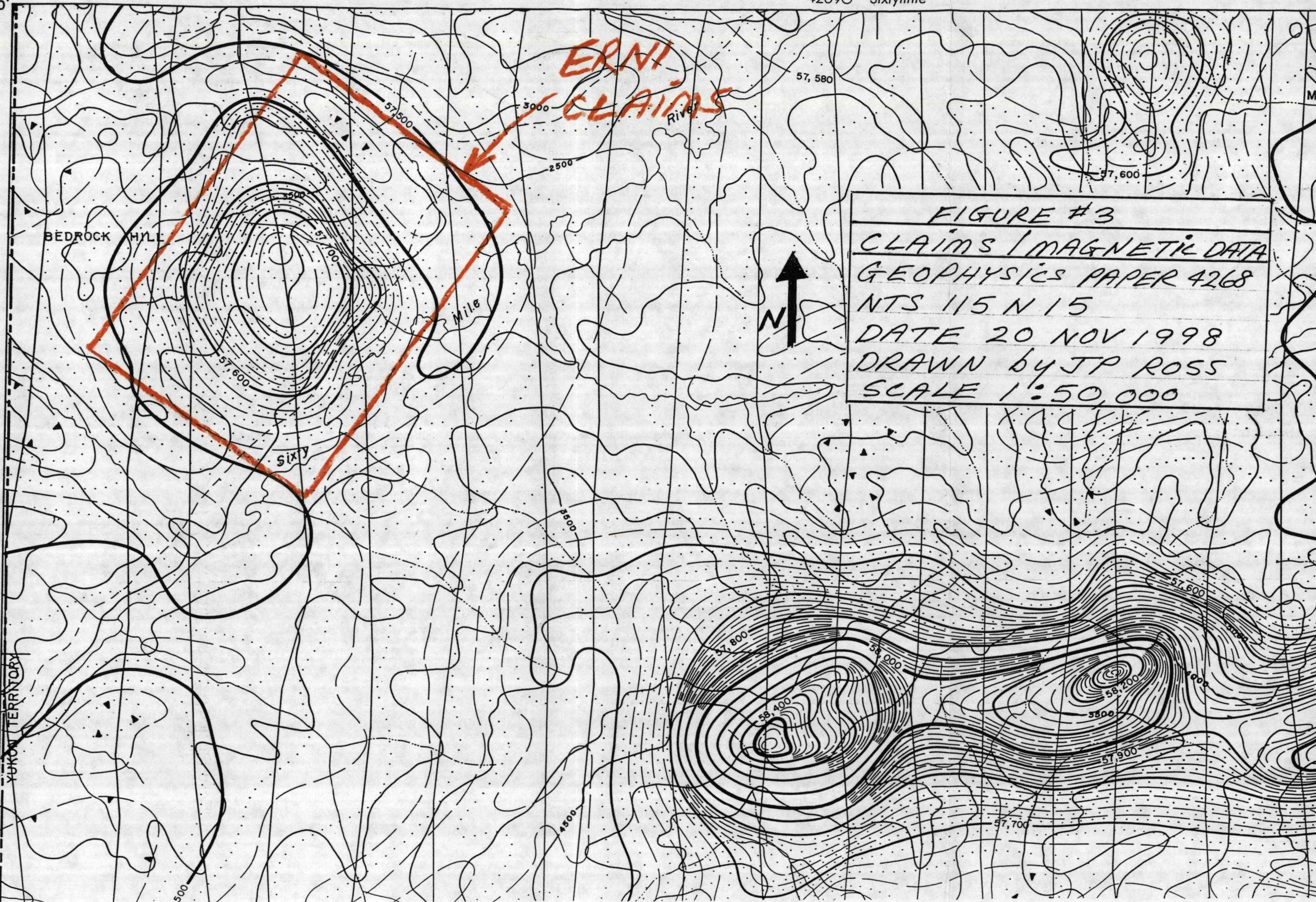


FIGURE #3
 CLAIMS / MAGNETIC DATA
 GEOPHYSICS PAPER 4268
 NTS 115 N 15
 DATE 20 NOV 1998
 DRAWN by J.P. ROSS
 SCALE 1:50,000

BEDROCK HILL

ERNI CLAIMS



Mile

Sixty

ALASKA
YUKON TERRITORY

55'

500

1500

57,800

58,000

58,400

3500

57,900

57,700

57,600

57,600

57,580

3000

2500

57,500

3500

57,600

57,700

57,600

3500

57,600

57,700

57,800

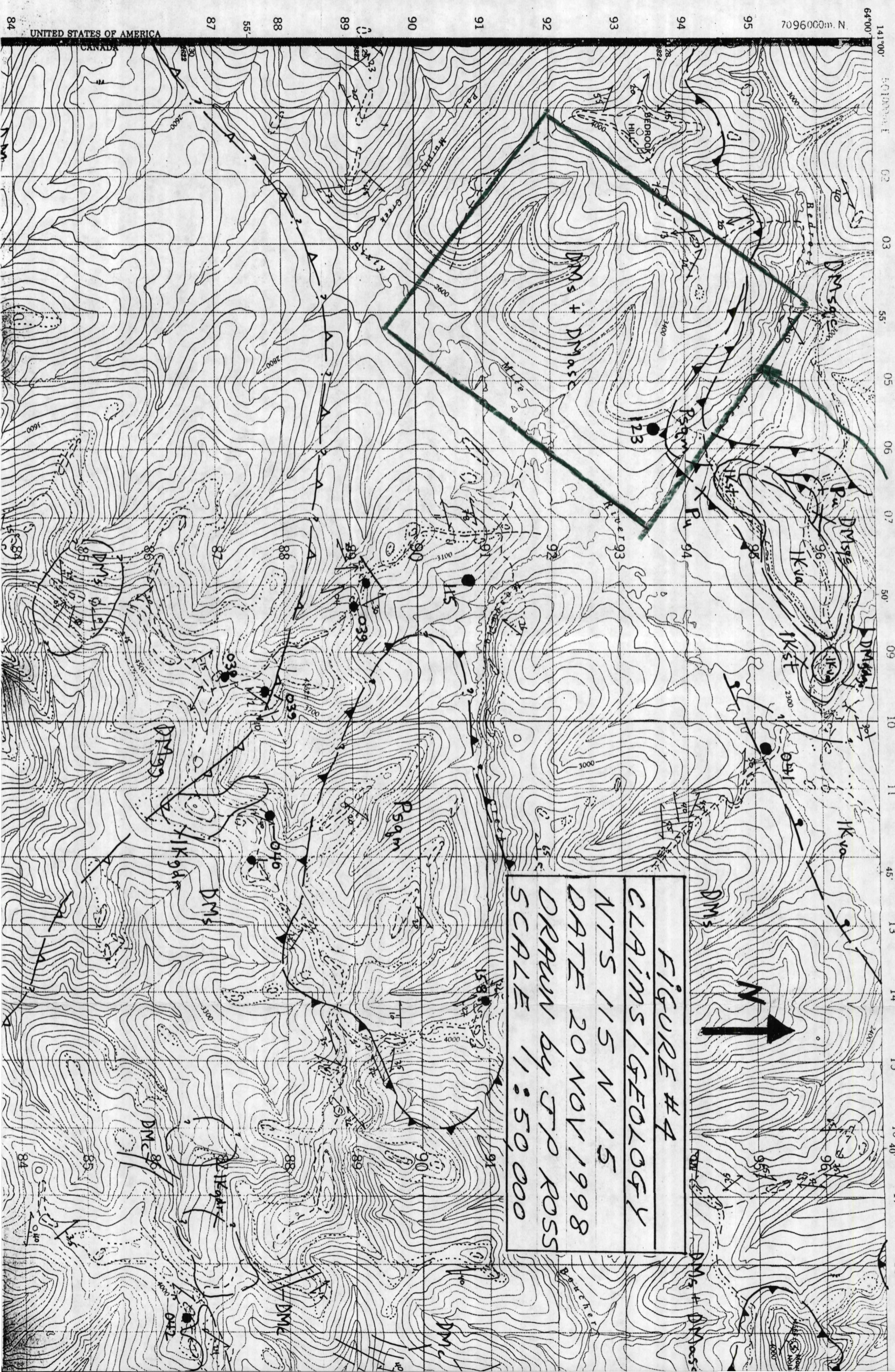
57,900

58,000

MC

ERNI CLAIMS

FIGURE #4
CLAIMS GEOLOGY
NTS 115 N 15
DATE 20 NOV 1998
DRAWN by J.P. ROSS
SCALE 1:50 000





64°00' 141°00' EQUINOXIAL E 02 03 05 06 07 10 11 13 14 15 16 40' 17 18 19
95 94 93 92 91 90 89 88 87 84
7096000m. N
CANADA
UNITED STATES OF AMERICA

GEOLOGICAL LEGEND

NASINA Assemblage

- DMasc** Late (?) Devonian to Early Mississippian
medium to dark weathering chlorite (+- biotite) schist, amphibolite
and garnet amphibolite
- DMsqc** graphitic Nasina Assemblage undifferentiated (mainly pale to dark gray
weathering, fine grained quartzite, quartz-muscovite (+-chlorite) schist,
locally garnetiferous)
- DMs** medium to coarse grained mica schist, commonly garnetiferous,
amphibolite, minor quartzite
- Meta Plutonic Rocks**
- DMgg** Middle to Late Permian
Moderately to strongly foliated K-feldspar augen-bearing quartz monzonite
to granite gneiss (S. Fifty Mile Batholith, Mt. Burnham orthogneiss)
- Klondike Schist Assemblage**
- Psqm** Late Devonian to Early Mississippian
rusty weathering quartz-muscovite schist

-  thrust contact
(defined, approximate, assumed)
-  low-angle normal (?) fault
(defined, approximate, assumed)
- 123 Minfile Occurrence

Summary of Work - Bedrock Creek Area

GEOLOGICAL LEGEND from Open File 1996-1(G)

J.P. Ross

SCALE:	FILE: legend	DATE: 98.12.29
NTS: 105 C	DRAWN: o.s.e.	FIGURE 5

Chapter Two: SUMMARY

The ERNI 1-80 claims were staked and recorded by Paulo Ouellett of Dawson City. I was unable to stake them as I had to add to my UNI and CICI claim groups (under option to Madrona Mining Ltd.) on 116 C/2.

No float, rock, silt or soil samples were taken.

I planned to visit the area in the fall for prospecting but bad weather and schedule problems prevented it.

Paulo Ouellet worked from June 8 - June 24, 1998. He had problems with bears, weather (rain), his truck, porcupines/dogs etc. The claims were recorded on June 24, 1998.

Chapter Three: GEOCHEMICAL SURVEY

3.1 Soil Geochemistry

No soil samples were taken.

3.2 Silt Geochemistry

No silt samples were taken.

3.3 Rock Geochemistry

No rock samples were taken.

3.4 Interpretation

Even with no data on my part, interest in the ERNI claims is high because it may be similar to gold deposits in Alaska, where recent successes at FT. KNOX, TRUE NORTH and POGO have awakened mining exploration companies to potential in the Yukon.

From courses and talks at the 1998 Geoscience Forum I can list good points about the ERNI Claims;

1. placer gold is present in the area, the claims are in the heavily promoted TINTINA gold belt
2. the claims have road access
3. a magnetic high with a bulls-eye center is present, i.e.) a possible non-magnetic cretaceous pluton and a magnetic altered zone around it
4. a thrust fault is present - good source of broken up rock
5. schist in the area contains amphibolite, this means it is from a deep seated source; it was metamorphosed at high temperatures; potentially an environment similar to the POGO gold deposit in Alaska.

The deposit type is still not known.

Chapter Four: PROSPECTING

In 1999, if there is no option deal on the ERNI claims, I will prospect the area and take many silt samples in streams and analyze for Au + 32 element ICP. Maybe a gold and trace element association will be seen.

All claims will be kept. However, it is likely that a deal can be made in the winter of 1999 as interest is high in this area now for gold deposits.

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
Box 4842
Whitehorse, Yukon
Canada. Y1A 4N8
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 -- BC & Yukon Chamber of Mines, Prospecting Course
1978 -- United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 -- Yukon Chamber of Mines, Advanced Prospecting Course
1991 -- Exploration Geochemistry Workshop, GSC Canada
1994 -- Diamond Exploration Short Course, Yukon Geoscience Forum
1994 -- Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 -- Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 -- Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 -- Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 -- Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 -- New Mineral Deposit Models of the Cordillera, MDRU
1997 -- Geochemical Exploration in Tropical Environments, MDRU
1998 -- Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors' Assistance and Yukon Mining Incentive Program 1986 - 1998
6. have been on the British Columbia Prospectors' Assistance Program 1989 - 1990
7. have a 100% interest in the claims described in this report at the present time

John Peter Ross
27/Nov/98

APPENDIX 1

References

Geophysical paper/map, 4269G, Sixty Mile, 116 C/2.

Geophysical paper/map, 4268G, Crag Mountain, 115 N/15.

GSC Open File #1364, Geochemical Survey, NTS 115 N (E ½), 115 O

TAURUS - CIM special volume #46. Porphyry deposits of the northwest Cordillera p. 451-457.

Metallogeny of Volcanic Arcs. 1998 MRDU Short Course (2 days).

Intrusion Related Au Mineralization - Alaska and Yukon. 1998 Geoscience Forum Workshop.

Personal Communication: Craig Hart, Yukon Geology Program. John Kowalchuck, NuLite, Vancouver, BC.

Open File 1996-1 (G). Geological compilation maps of north Stewart River area, Klondike and Sixty Mile districts. Maps 115 N/15,16; 115 O/13,14; 115 O 15,16. Jim Mortensen.

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Lerner
MINFILE #: 115N 039
MAJOR COMMODITIES: Ag, Pb
MINOR COMMODITIES: Au, Zn
TECTONIC ELEMENT: Yukon Tanana Terrane

NTS MAP SHEET: 115 N 15
LATTITUDE: 63°55'29"N
LONGITUDE: 140°48'52"W
DEPOSIT TYPE: Vein
STATUS: Open pit past producer

CLAIMS (PREVIOUS AND CURRENT)

CCL, JACK, REX, LUBRA, JUDY, PRA, HAR

WORK HISTORY

Staked as CCL, Jack, etc cl (87620) in Aug/65 by J. Lerner & M. Chefkoi and optioned to A. Moisey, who enlarged the property and conducted geochem sampling and bulldozing in 1965. The claims were transferred to a new company, Sixty Mile Mg CL, which conducted additional bulldozing and EM surveys in 1966-67 and shipped about 9 tonnes of hand-cobbed ore from the No. 3 Vein in 1966. Mt Crag ML tied on Rex & Lubra cl (Y15162) to the west in Jun/67 but filed no work.

Connaught ML optioned the property early in 1968 and explored with mapping and geochem sampling, extensive bulldozer trenching and 2 holes (112.8 m) in 1968-69. J. Lerner restaked the No. 3 Vein as Judy 2 cl (Y82496) in May/74 and mined and shipped about 191 tonnes in 1974-76. In Jan/81, he restaked the Rex-Lubra as Judy cl (YA55162), transferred the property to Judy Mg Synd, and sold it to Lougheed Res Inc, which performed mapping and trenching later in the year.

The property was transferred to Bethex E Inc and optioned by Madre Mg L in 1983, and transferred to Judy Res Inc in 1984 and Cumo Res L and X-Pat Dev L in 1986. In 1988, the Judy cl were optioned to Shakwak Exp CL.

Croesus Res Inc partially restaked the property and tied on PRA & HAR cl (YA89110) in Apr/87 and performed mapping, geochem and geophysical surveys and bulldozer trenching later in the year and drilled 10 diamond drillholes (315.8 m) in 1988. The Pra & Har cl were transferred in May/89 to Walhala EL. Tombstone Exploration Ltd conducted a drilling program on the Pra cl in 1993.

GEOLOGY

North-northeast-striking, mesothermal(?) quartz-carbonate-sulphide veins cut Nasina Assemblage schists (unit DMs) and Early Mississippian granitic augen gneiss (unit DMgg) south of Mosquito Creek.

Most of the work has been performed at the northwest locality, called No. 3 Vein. Galena and arsenopyrite, with minor sphalerite, tetrahedrite and boulangerite, form lenses over 12.1 m long and 0.9 - 1.2 m thick in quartz veins up to 2.1 m thick in a complex en echelon vein system. The 1966 and 1974-76 shipments were made from a single lens and averaged about 2228.5 g/t Ag, 60% Pb and 1.03 g/t Au. The best 1969 intersection was 130.3 g/t Ag and 2.7% Pb across 0.7 m.

The southeast locality, called the No. 2 and No. 7 Veins, has received less work and is more weakly mineralized.

Glasmacher and Friedrich (1992) recognized three stages of vein formation: (1) quartz-pyrite; (2) arsenopyrite-galena (3) quartz-pyrite-sphalerite-chalcopyrite-freibergite. Precious metals were deposited during the second stage. Fluid inclusion and microprobe studies show that the veins formed from high salinity, low pH fluids at temperatures which were initially as high as 330°C.

GEOLOGY (CONTINUED)

The Tony and Pra claims cover the contact between quartzite, limestone and skarn of the Nasina Series, quartz monzonite and Pelly Gneiss intruded by Cretaceous granite.

Altered quartz monzonite on the property returned anomalous Cu and Mo values; and magnetite-quartz-carbonate and diopside skarn returned anomalous values in Bi, Au, As, Ag with Pb, Zn and Cu.

REFERENCES

GEOLOGICAL SURVEY OF CANADA, Paper 67-40, p. 29.

GEOLOGICAL SURVEY OF CANADA, Paper 68-68, p. 32-33.

GEORGE CROSS NEWSLETTER, 3 Jun/88.

GLASMACHER, U., and FRIEDRICH, G., 1992. Gold-sulphide enrichment processes in mesothermal veins of the Sixtymile River area, Yukon Territory, Canada. In: Yukon Geology Vol. 3, Exploration and Geological Services Division, DIAND, p. 292-311.

KELON RESOURCES AND CROESUS RESOURCES INC., Nov/88. Yukon Exploration Incentive Program Report #093109 by B.J. Price (EIP88-036).

LOUGHEED RESOURCES INC., Feb/81. Engineer's Report by R.T. Heard.

MINERAL INDUSTRY REPORT 1969-70, p. 32-33.

MORTENSEN, J.K., Geological Compilation Maps of the Northern Stewart River map area Klondike and Sixtymile Districts (115N/15,16; 115O/13,14 and parts of 115O/15,16). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open file 1996-1 (G).

YUKON GEOLOGY PROGRAM AND EXPLORATION 1981, p. 224.

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): The	NTS MAP SHEET: 115 N 15
MINFILE #: 115N 115	LATITUDE: 63°57'04"N
MAJOR COMMODITIES: -	LONGITUDE: 140°50'17"W
MINOR COMMODITIES: -	DEPOSIT TYPE: Unknown
TECTONIC ELEMENT: Yukon Tanana Terrane	STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

THE, AIME

WORK HISTORY

Staked as The cl (Y15906) in Jun/69 by Klondike EL, which bulldozer trenched in 1969-71. The property was transferred in 1972 to E. Faucher, L. Grimard & J. Trottier, who trenched in 1973, 1976 and 1980 and enlarged the property in 1979. In Aug/84 M. Grimard restaked the claims as Aime cl (YA87694) and performed trenching in 1986 and mapping and geochem sampling in 1987.

GEOLOGY

The claims are underlain by Nasina Assemblage schist and amphibolite (units DMs and DMasc) and have been explored for gold and silver veins.

REFERENCES

MORTENSEN, J.K., Geological Compilation Maps of the Northern Stewart River map area Klondike and Sixtymile Districts (115N/15,16; 115O/13,14 and parts of 115O/15,16). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open file 1996-1 (G).

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Bedrock
MINFILE #: 115N 123
MAJOR COMMODITIES: Ag
MINOR COMMODITIES: Cu, Au
TECTONIC ELEMENT: Yukon Tanana Terrane

NTS MAP SHEET: 115 N 15
LATITUDE: 63°58'31"N
LONGITUDE: 140°53'15"W
DEPOSIT TYPE: Vein
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

MOLY, SAPPO, NEY

WORK HISTORY

Staked as Moly cl (YA65451) in May/83 by Piedmont EL and Last Frontier Ent L, which added Sappo cl (YA88192) to the SW and NE in Oct/86. L. Mollot tied on MM cl (YA88208) to the northwest in Oct/86 and performed mapping and geochemical sampling in 1987 and 1988.

The Ney cl (YB4742) were tied on north of the Sappo claims in Feb/88 and were explored by mapping, geochem sampling and trenching before being transferred to J. Bergvinson in Feb/89. The Moly claims were transferred to Last Frontier Ent L in May/88.

GEOLOGY

A south-dipping thrust fault is inferred to cross the area, separating Nasina Assemblage schist and amphibolite (units DMs and DMasc) in the hangingwall from rusty-weathering quartz-muscovite of the Permian Klondike Schist Assemblage (unit Pks) in the footwall. A thrust-fault-bounded lens of serpentinite occurs along the fault to the east of the occurrence. A vuggy quartz carbonate vein containing no visible sulphides outcrops in the hangingwall of the fault: It is 1 m wide, strikes 140 and dips 38 S. A specimen from the vein assayed 992.5 g/t Ag with 310 ppb Au and 1140 ppm Cu.

REFERENCES

MORTENSEN, J.K., Geological Compilation Maps of the Northern Stewart River map area Klondike and Sixtymile Districts (115N/15,16; 115O/13,14 and parts of 115O/15,16). Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, Open file 1996-1 (G).

**Summary of Work
McQuesten River Area
Yukon Territory, N.T.S. 115 P/11**

for

**Yukon Mining Incentives Program
Economic Development
Government of the Yukon
Box 2703, Whitehorse, Yukon Y1A 2C6**

File Number 98-016

**John Peter Ross, Prospector
November, 1998**

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Appendix 1: References

Chapter One: INTRODUCTION

1.1 Introductory Statement

The McQuesten River Project, map sheet 115 P/11, was chosen because;

1. Minfile Moose Ridge, 115 P 016 (Ag Pb F). F is reported to occur in limy bands up to 7.6m wide and up to 411.4 g/ton Ag. Possibly Au was not tested in the samples. F is associated with many Au epithermal deposits.
2. One can drive almost to the area by 2-wheel drive and then a short walk on an old bulldozer trail. A trench was noted on an aerial photograph.
3. An epithermal or Carlin type Au deposit may be present.
4. Talks with Ken Galambos have alerted me to the potential of this under-explored area.

1.2 Location and Access

Access was by 2-wheel drive highway (North Klondike Highway) and a short walk, about 40 km northwest of Stewart Crossing.

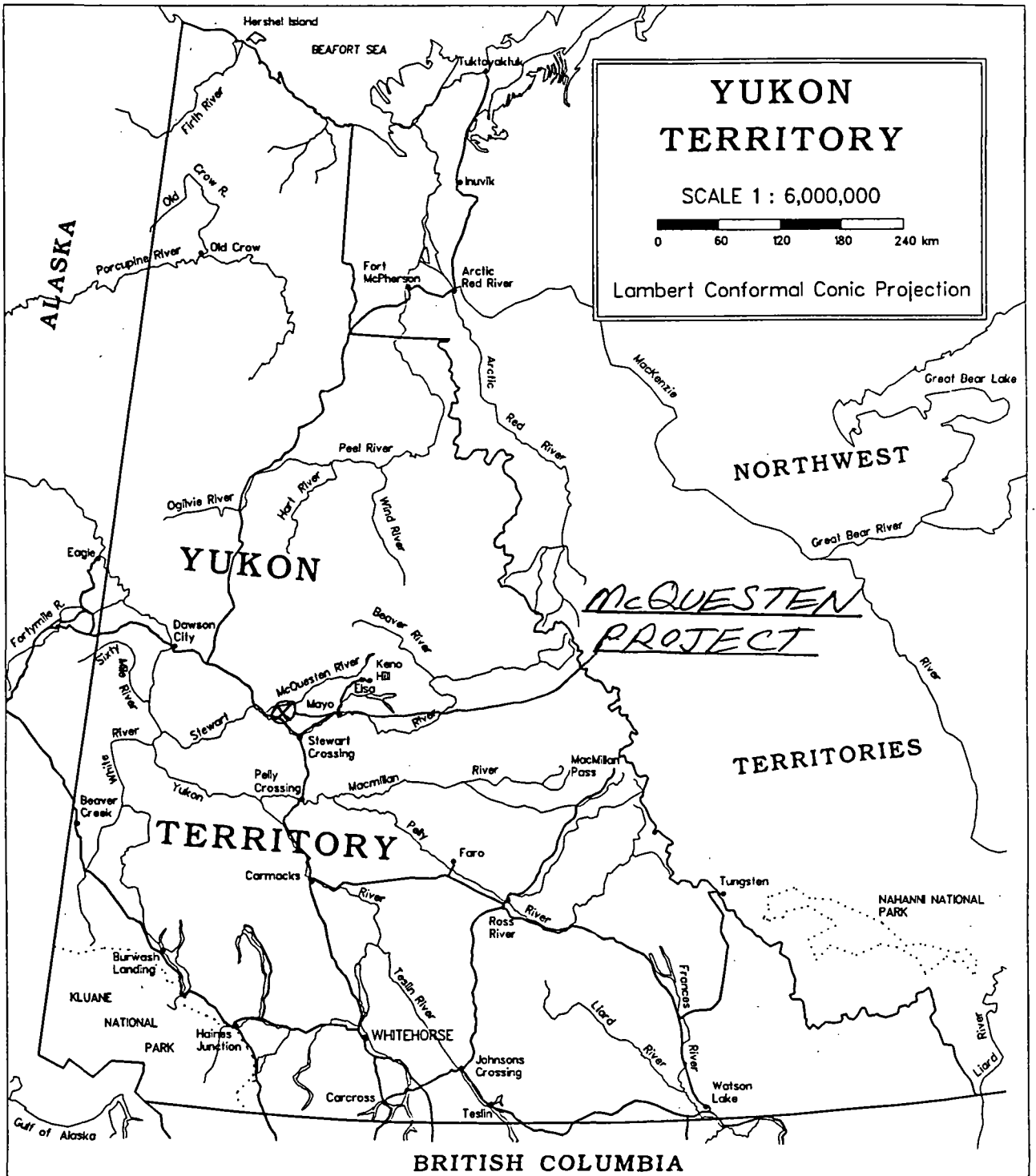
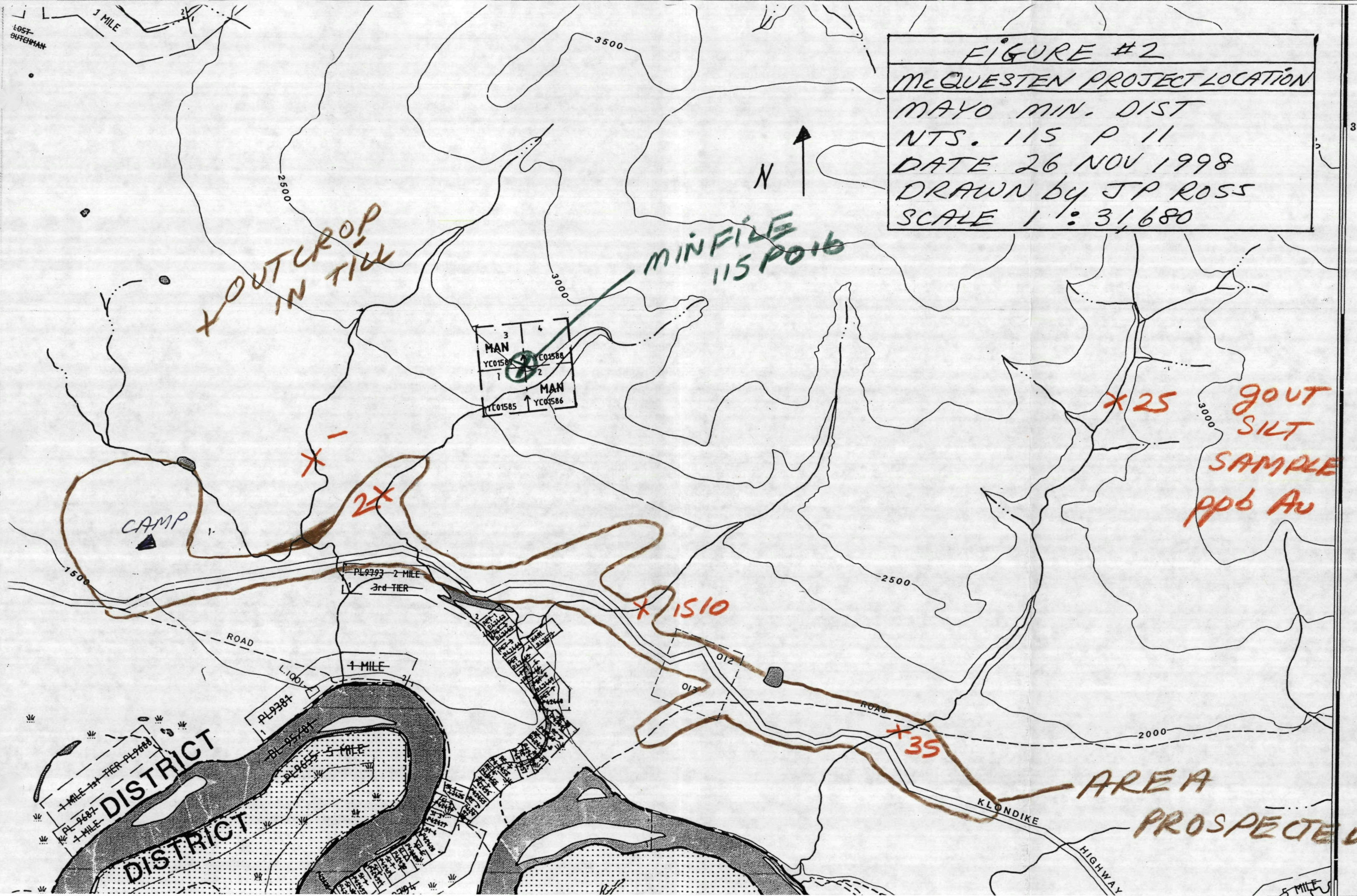


FIGURE #1

LOCATION MAP

McQUESTEN RIVER PROJECT

FIGURE #2
 McQUESTEN PROJECT LOCATION
 MAYO MIN. DIST
 NTS. 115 P 11
 DATE 26 NOV 1998
 DRAWN by JP ROSS
 SCALE 1 : 31,680



X OUTCROP
 IN TILW

MINFILE
 115 P 016

X 25
 GOUT
 SILT
 SAMPLE
 pp6 Au

X 1510

X 35

AREA
 PROSPECTED

DISTRICT
 DISTRICT

LOST-BUTCHMAN

1 MILE

2500

3500

3000

N

1500

2500

2000

PL9793 2 MILE
3rd TIER

1 MILE

ROAD

PL9384

PL-95781

PL-9687

PL-9688

PL-9689

PL-9690

PL-9691

PL-9692

PL-9693

PL-9694

PL-9695

PL-9696

PL-9697

PL-9698

PL-9699

PL-9700

Chapter Two: SUMMARY

The McQuesten River Project was not completed. No float, silt or moss mat samples were taken. Dates worked were July 2-4, 1998.

Chapter Three: GEOCHEMICAL SURVEY

3.1 Soil Geochemistry

No soil samples were taken.

3.2 Silt Geochemistry

No silt samples were taken.

3.3 Rock Geochemistry

No rock samples were taken.

3.3 Moss Mat Geochemistry

No moss mat samples were taken.

Chapter Four: PROSPECTING

Work consisted of driving up and down the highway and walking trails off the highway, checking out sandy glacial bluffs for outcrop and streams where regional geochemical survey silt samples were taken.

The trails seem to go mostly to the Stewart River and lakes and swamps for hunting I would say. No outcrop was seen. However one interesting (?) outcrop was seen north of a very swampy area, about 80-90% of the way up a steep bluff. No water was in the streams except at a geochem sample site area in a dry grassy depression.

Problems were numerous. It was so hot I could not sleep well, the ground was so dry a forest fire could easily start, it took me a day and a half to find the trail to (X2). I went up the trail, quite overgrown, cut some trees and eventually gave up and just walked up a good distance.

Bears were a problem. On July 2, 2 small bears were seen northwest of (X1510) seemed not afraid of me or my truck or the noise. At my camp on July 4, a large black bear woke me up at 5 am and chewed up a water container, so only 3 days were spent on this project.

On October 2 I passed through the area on my way south to Whitehorse from Dawson City. It was snowing and -10 degrees C so I did not stop.

Chapter Five: INTERPRETATION

The geology is Late Proterozoic to Early Cambrian, schist, quartzite and phyllite. Deposit type in the area is unknown and may be Au, Ag epithermal.

Someone staked the MAN 1-4 claims on the Minfile occurrence in September 1998.

In future more work should be done. I can hike up to check out the strange outcrop (?) in till, do some silt sampling up stream, especially at (X1510) and (X35), (X25).

No one has yet located the source of Stewart River bar gold deposits. The area has great potential for gold.

Because of bear hazards, one should be very careful of food storage, carry a whistle, bear spray and a shotgun at all times! A small Thaltan bear dog such as Rob Berdahl's would be very helpful here.

STATEMENT OF QUALIFICATIONS

I, John Peter Ross, do hereby certify that I:

1. am a qualified prospector with mailing address;
Box 4842
Whitehorse, Yukon
Canada. Y1A 4N8
2. graduated from McGill University in 1970 with a B.Sc. General Science
3. have attended and finished completely the following courses;
1974 -- BC & Yukon Chamber of Mines, Prospecting Course
1978 -- United Keno Hill Mines Limited, Elsa, Yukon, Prospecting Course
1987 -- Yukon Chamber of Mines, Advanced Prospecting Course
1991 -- Exploration Geochemistry Workshop, GSC Canada
1994 -- Diamond Exploration Short Course, Yukon Geoscience Forum
1994 -- Yukon Chamber of Mines, Alteration and Petrology for Prospectors
1994 -- Applications of Multi-Parameter Surveys (Whitehorse), Ron Shives, GSC
1994 -- Drift Exploration in Glaciated and Mountainous Terrain, BCGS
1995 -- Applications of Multi-Parameter Surveys, (Vancouver) Ron Shives, GSC
1995 -- Diamond Theory and Exploration, Short Course # 20, GSC Canada
1996 -- New Mineral Deposit Models of the Cordillera, MDRU
1997 -- Geochemical Exploration in Tropical Environments, MDRU
1998 -- Metallogeny of Volcanic Arcs, Cordilleran Roundup Short Course
4. did all the work and the writing of this report
5. have been on the Yukon Prospectors' Assistance and Yukon Mining Incentive Program 1986 - 1998
6. have been on the British Columbia Prospectors' Assistance Program 1989 - 1990
7. have a 100% interest in the claims described in this report at the present time

John Peter Ross
29 Nov 1998

APPENDIX 1

References

Personal Communication

Ken Galambos, Mineral Development Geologist, Yukon Geology Program
Bob Stirling, Stewart River placer miner

Assessment Report 093206, SLEEPER Claims, Ken Galambos

Minfile 115 P 016, MOOSE RIDGE

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Moose Ridge
MINFILE #: 115P 016
MAJOR COMMODITIES: Ag,Pb,F
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 11
LATITUDE: 63°33'49"N
LONGITUDE: 137°10'39"W
DEPOSIT TYPE: Unknown
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

HOPE, KING, CON, CML, HILL

WORK HISTORY

First staked as Hope cl (82362) in Sep/62 by Dualco Syndicate (Highland Bell, Area ML, Dome ML, Ventures L and Lake Expanse), which explored with hand trenching in 1963. Restaked as King cl (Y6637) in Apr/67 by G. King and O. Hutton and later as Con cl (Y32508) in Jun/69 by C. Klippert, who explored by bulldozer trenching in 1967 and 1970. Dennis McCrae staked the CML cl (Y69473) about 2.4 km to the south in Jul/73.

The showing was restaked as Hill cl (YA39753) in Apr/79 by Amax Potash, which explored with mapping and geochem sampling later in the year.

GEOLOGY

The claims are underlain by Paleozoic? metasedimentary rocks, which are cut by a strongly altered and bleached granitic dyke or small stock. Fluorite is reported to occur in limy bands up to 7.6 m wide and galena assaying up to 411.4 g/t Ag is also said to be present.

1/6

(1998
GRASS ROOTS)

④ STEWART RIVER PROJECT

The project consists of areas close ^{to} the STEWART RIVER. They are in Mayo Mining District on Maps 115 P 7, 8, 9, 10, 11.

One can drive to areas on well-maintained all season roads. D access is by mining road and a cat track. All of high priority areas by foot.

Potential mineralized trends. areas of higher priority.

Discussion with Ken Galambos, YMIP geologist, have made me more aware of this area, which is under explored.

→ A TARGET

- (1) Minfile #42, McGuinty. Bulk silt samples in 3 streams returned ppm 124, 102, 273 and pan conc 103, 2665, 1438. These values suggest a gold source is nearby.
- (2) The area is at the south-east end of a 25 km trend of linear (NW to SE), SE of river, the trend bends?
- (3) The GEOLOGY and mineralization may be similar to that of the BREWERY CREEK GOLD DEPOSIT.

2/6 (4)

(4) According to Bob STIRLING, STEWART RIVER PLACER MINER, economic gold placers do not exist above here.

(5) Hugh BOSTOCK, famous YUKON geol., in memoirs has said gold pans show colours below Mayo River and none above (on Stewart R.).

(6) Old timers thought this area was the source of the Stewart R. gold.

(7) No one has done a thorough search for St. R. gold using 90's ideas.

(8) 20 "ET" claims were staked and recorded.

(9) So far 4 companies have seen the data and listened to my ideas. They like the idea.

(10) at present "Brewery Creek" type gold deposits are in.

- A target is on the way to Dawson City or to Mayo; where I have 98 Y.M.P. approved projects.

- Future work in 98 will be more detailed silt samples, soil samples and prospecting.

- The lack of indicator elements with the gold is a puzzle, but GOLD (ALONE) deposits seem to be few in number. In future more

3/6 (4)

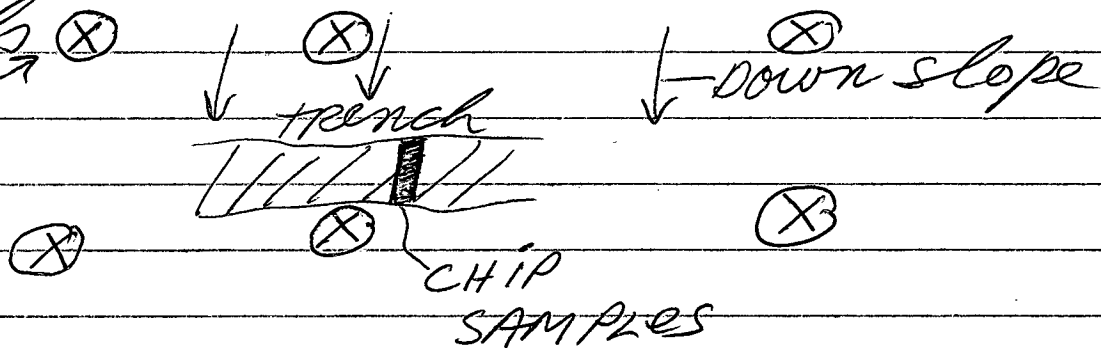
should be found.

B + C TARGETS

- ① A belt may be present here. Ag, Pb, F occurrence, minifile #16 moose ridge may be an epithermal deposit. According to Ken Galambos.
- ② Cat roads go to this area and a trench was seen in aerial photos.
- ③ An epithermal or Carlin type GOLD deposit may be present.
- ④ *MAYBE NO TEST FOR GOLD WAS done, latest staking was AMAX (1979) potash (prob. not a "GOLD" company).

- I plan to stop + try to find B target while travelling to Mayo or Dawson City for other projects.

- If trench is located, chip samples will be taken. Also some soils



- 9 soils may sound wasteful but gold grades may be quite erratic, from 0 to high grade over short distances in epithermal

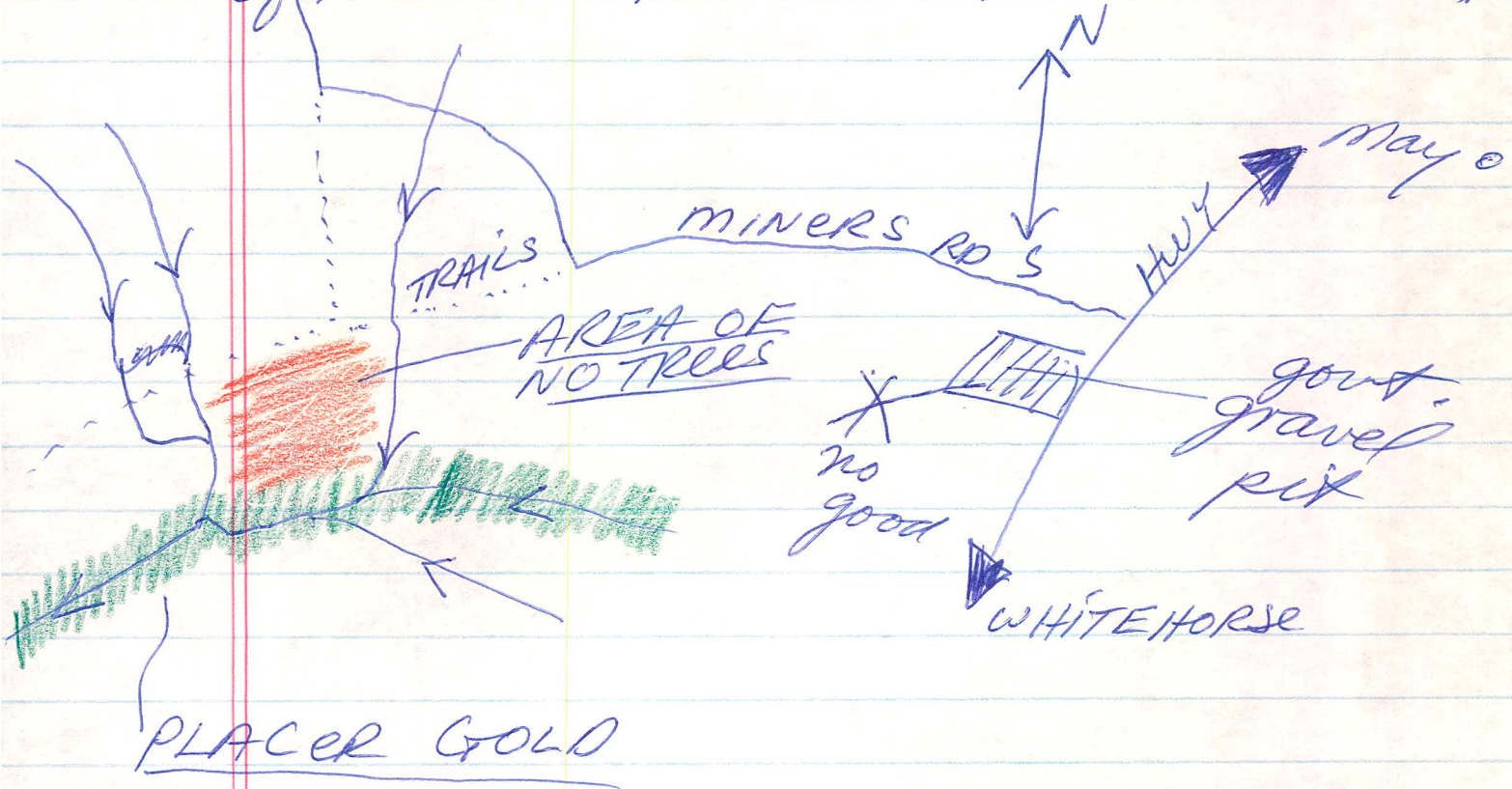
4/6 (A)

gold deposits. C target may be similar to B target.

→ D TARGET

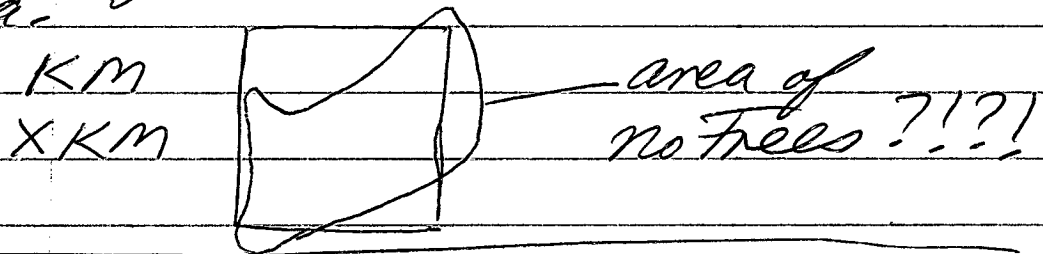
- ① This is an area of no trees by a known placer occurrence (unstaking).
- ② This may be a kill zone, by some metal.
- ③ No aerial photo of area could be observed, * The MAYO NATIVE BAND has borrowed (since Aug 1996) 100's of AERIAL PHOTOS - never returned.

to BEAR CR.



- miners rd is to an active placer area (acc to ass. min. rec. Mayo).
- TRAILS are cat trails.
- I hope to do this in August or September when miner Road is dry.

- 5) - In past, 1996, on YMIP - now claims; I was shown a strange zone by a gold placer miner. The trees were small, yellowish and moss was a strange colour. Ever since I am more aware of possibility of vegetation altered by ~~metals~~ metals.
- I have a 4 foot long soil auger I have never used. This is a good time to use it to ~~go~~^{do} a soil grab over this area.



These projects are all low budget, on or close to a road and balance (\$ wise) my Mayo - Rainbow Cr + Watson Lake - Hasselberg Lake.

References

- ① PROPERTY REPORT on Sleepers (10-29) asses. # 093206 (YB 29730 - 749) by Kenneth Galambos
- ② 115 p MAP. minifile # 16 Moose Ridge
18 Reverse
42 McGinty
- ③ Personal communication Mayo
Ken Galambos, Bob Stirling, ass. min. rec.

6)6 ④

BUDGET PROPOSED 1998

STEWART RIVER PROJECT
AERIAL PHOTOS for AREAS NOW ORDERED

A TARGET

700 KM	gas	.46	\$ 320
10 Days	diem	35	350
up to 20 SILTS	(-200 ²⁵ m)		500
up to 100 SOILS	(\$20)		2000
			<u>\$ 3170</u>

B TARGET

700 KM	gas		\$ 320
5 Days	diem		175
10 Rock samples		22	220
9 SOILS	\$20		180
			<u>\$ 895</u>

D TARGET

700 KM	gas		\$ 320
6 Days	diem		210
up to 30 SOIL	x 20		600
			<u>\$ 1130</u>

A, B, D	total	\$ 5195
	misc	300
		<u>\$ 5500</u>

MINFILE: 115P 042
PAGE NO: 1 of 1
UPDATED: 07/14/95

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): McGuinty
MINFILE #: 115P 042
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 8
LATITUDE: 63°28'47"N
LONGITUDE: 136°23'00"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

DAVID, HALONA, PAN, SLEEPER

WORK HISTORY

Staked as David & Halona cl (YA41512) in Nov/79 by C. Charette and as Pan cl (YA43488) in Jan/81 by S. Schmidt. K. Galambos staked the Sleeper 10-29 cl (YB29730) 2.5 km to the northwest in May/93 and later carried out a geological sampling program in May/94.

GEOLOGY

The earlier claims are probably underlain by Late Proterozoic-Early Cambrian schist, quartzite, and phyllite and may have been staked to protect surface rights.

Bulk silt samples (-200 mesh) and pan concentrates collected in 1992 returned anomalous values of gold.

REFERENCES

K.D. Galambos, Mar/94. Assessment Report #093206 by K.D. Galambos.

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Conservative
MINFILE #: 115P 050
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 9
LATITUDE: 63°33'37"N
LONGITUDE: 136°23'38"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

BILL

WORK HISTORY

Staked as Bill cl (YA77734) in Jul/84 by L. Brown.

GEOLOGY

The claims are underlain schist, quartzite, phyllite and limestone of the by Late Proterozoic-Early Cambrian Hyland Group.

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

MINFILE #: 115P 018
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 7
LATITUDE: 63°29'02"N
LONGITUDE: 136°58'02"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

IH, HH

WORK HISTORY

Staked as IH, HH, etc cls (Y27030) in Sep/68 by O. Hutton and associates.

GEOLOGY

Claims cover a stock of granodiorite in contact with Paleozoic? metasedimentary rocks.

MINFILE: 115P 016
PAGE NO: 1 of 1
UPDATED: / /80

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Moose Ridge
MINFILE #: 115P 016
MAJOR COMMODITIES: Ag,Pb,F
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 11
LATITUDE: 63°33'49"N
LONGITUDE: 137°10'39"W
DEPOSIT TYPE: Unknown
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

HOPE, KING, CON, CML, HILL

WORK HISTORY

First staked as Hope cl (82362) in Sep/62 by Dualco Syndicate (Highland Bell, Area ML, Dome ML, Ventures L and Lake Expanse), which explored with hand trenching in 1963. Restaked as King cl (Y6637) in Apr/67 by G. King and O. Hutton and later as Con cl (Y32508) in Jun/69 by C. Klippert, who explored by bulldozer trenching in 1967 and 1970. Dennis McCrae staked the CML cl (Y69473) about 2.4 km to the south in Jul/73.

The showing was restaked as Hill cl (YA39753) in Apr/79 by Amax Potash, which explored with mapping and geochem sampling later in the year.

GEOLOGY

The claims are underlain by Paleozoic? metasedimentary rocks, which are cut by a strongly altered and bleached granitic dyke or small stock. Fluorite is reported to occur in limy bands up to 7.6 m wide and galena assaying up to 411.4 g/t Ag is also said to be present.

MINFILE: 115P 021
PAGE NO: 1 of 1
UPDATED: / 175

YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE

NAME(S): Sether
MINFILE #: 115P 021
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 8
LATITUDE: 63°20'10"N
LONGITUDE: 136°12'19"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

CLAIMS (PREVIOUS AND CURRENT)

OSLO

WORK HISTORY

Staked as Oslo, etc cl (16274) in Oct/26 by O. Sether, who explored with shallow shafts until 1934.

GEOLOGY

Probably staked as a gold prospect. Bostock noted that large quartz veins are found here cutting Paleozoic? metasedimentary rocks and that a minor gold placer occurs in a north-flowing stream.

REFERENCES

GEOLOGICAL SURVEY OF CANADA Paper 48-25, p. 12.

MINFILE: 115P 027
PAGE NO: 1 of 1
UPDATED: / 88

**YUKON MINFILE
YUKON GEOLOGY PROGRAM
WHITEHORSE**

NAME(S): Ethel
MINFILE #: 115P 027
MAJOR COMMODITIES: Pb
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 8
LATITUDE: 63° 19' 37" N
LONGITUDE: 136° 06' 26" W
DEPOSIT TYPE: Unknown
STATUS: Showing

CLAIMS (PREVIOUS AND CURRENT)

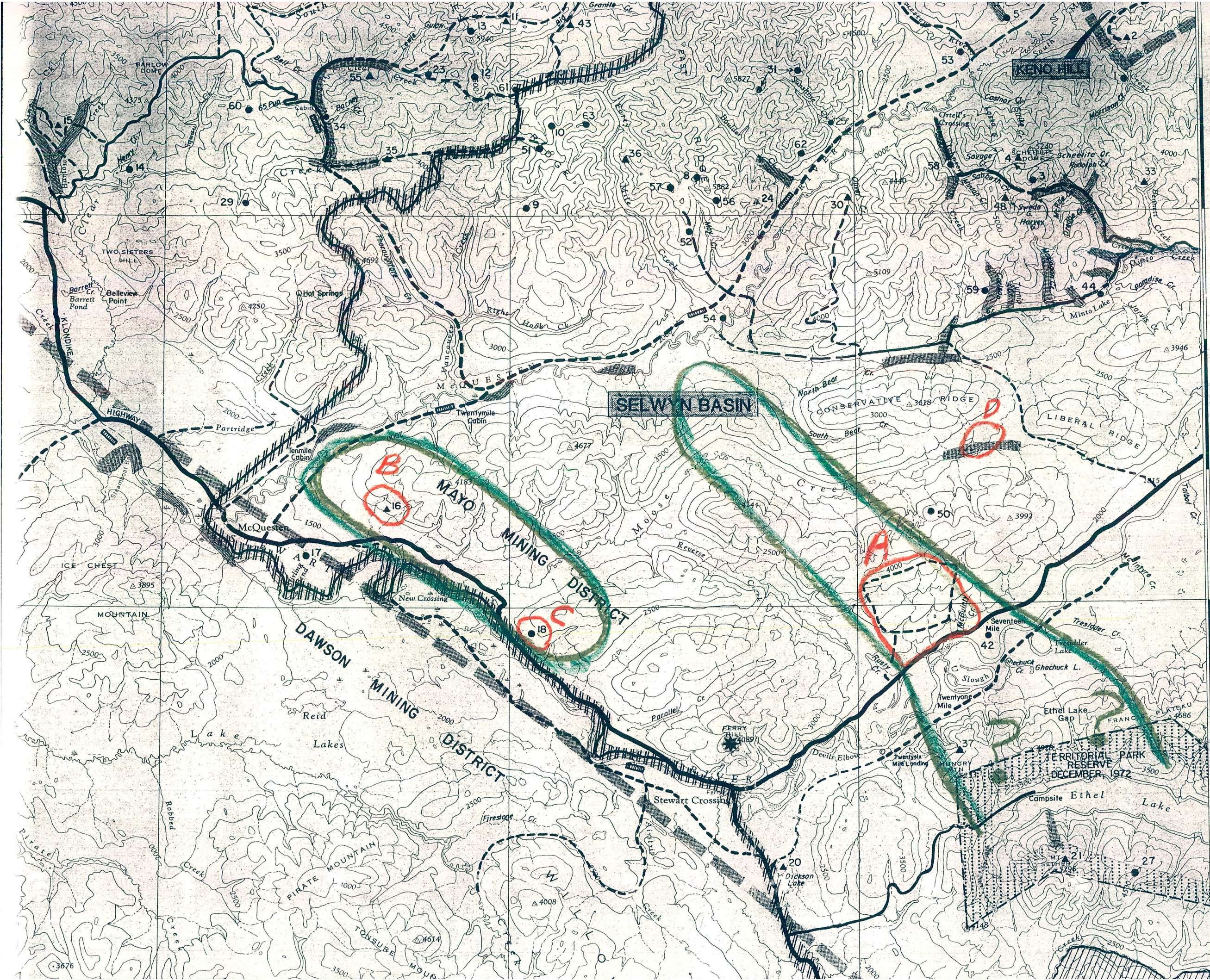
ETHEL, DAY, JOY

WORK HISTORY

Staked as Ethel cl (Y98332) in Aug/75 by G. Nicloux & K. Smeeton who added Day cl (YA5565) in Jun/76 and explored with trenching in 1977. Restaked as Joy cl (YA83496) in Jun/87 by J.B. O'Neill.

GEOLOGY

The claims are underlain by Paleozoic? limestone, schist and gneiss and were staked on a galena showing.



1. JAYBEE (Ag,Pb - Vein)
2. SEATTLE (Pb,Ag - Vein)
3. HAWTHORNE (Sb, Ag - Vein)
4. SCHEELITE DOME (W - Skn)
5. RODIN
6. HOBO (Au, Ag - Vein)
7. SPRAGUE (Pb,Cu - Vein)
8. EAST RIDGE (Sn,Pb,Ag, Zn - Vein, Skn)
9. LUGDUSH (W, Ag - Skn)
10. RIDGE (Ag, Pb - Vein)
11. JOSEPHINE (Au - Vein)
12. RHOSGOBEL (W - Ppy)
13. PUKELMAN (W, Au, Ag - Ppy, Vein)
14. CLEAR CREEK (Th - Un)
15. BARLOW
16. MOOSE RIDGE (Ag,Pb,F - Un)
17. ELIZABETH
18. REVERSE
19. ROSEBUD (Asbestos)
20. FLEGEL
21. SETHER
22. PEARL
23. LEWIS (Au - Vein, Form)
24. BOULDER (Cu - Vein)
25. TOTH
26. ORTELL
27. ETHEL (Pb - Un)
28. SECRET
29. THOROUGHFARE
30. OLIVER (Sn, Ag - Vein)
31. BIX (Sn - Un)
32. MOZI
33. HIGHT (Au - Vein)
34. BARNEY (Sn - Vein)
35. CLEMENT
36. BANDER (Pb - Vein)
37. TWENTYSIX
38. FIREBIRD
39. PHOENIX
40. FIONA
41. SYENITE
42. MCGUINTY
43. CORTIN
44. SAVY
45. OMEGA (Ba - Form)
46. WEIZ
47. ZETA (Ag, Pb - Vein)
48. POTTER
49. PIRATE (Au - Un)
50. CONSERVATIVE
51. JABBERWOCK (Sn - Un)
52. MAYGOLD

Mayo Landing 5 m
 Mayo 105 M

25'

20'

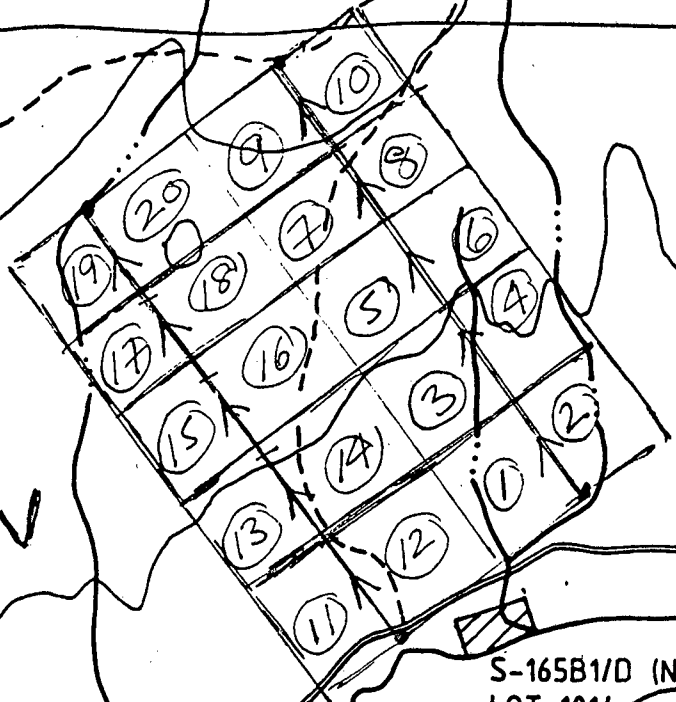
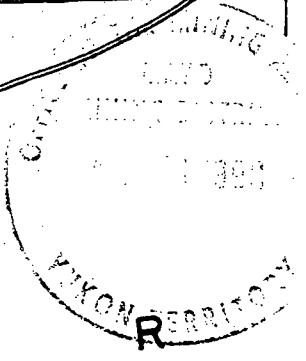
115-7-8

15'

ROAD

ET #1-20

John Peterley
4 May 1998



S-156B

019'

LOT 30

R LOT 1007

L. 1006

P.C. 1996-221

S-165B1/D (NND)
LOT 1014

STEWART

S-99B

L. 1003

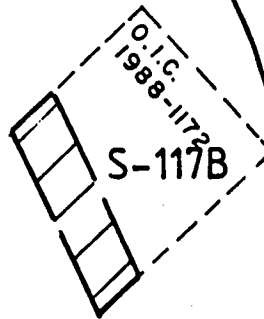
L. 1004

MARGARET
MARGARET
MARGARET
MARGARET

L. 1006

O.I.C. 1985-1364

L. 1005



S L O U G H

ROAD

DEAR JOHN ^{5 pages: all} 11 MAY 98.


Here is BLOWN up ^① Topo of AREA with

As result
PPB

	1	2	3
SILT -200m	124	102	273
PANCONC	103	2665	1438

my --- are my ideas of linears.
Notice silt #3 has streams closer to-
gether. and a structurally more
complex area.

May 15/98 FAX (12+) KM should be
(25+) KM.

② = area of govt. geophysical. PAID by
private enterprise  DON MURPHY is
still at YUKON
EDA

③ Dawson Mayo area map

④ Dawson Mayo - FAULTS + DATA
ADDED by KEN GALAMBOS

I will be here at 867-668-7985
for a period ~~is~~ 20-30 minutes

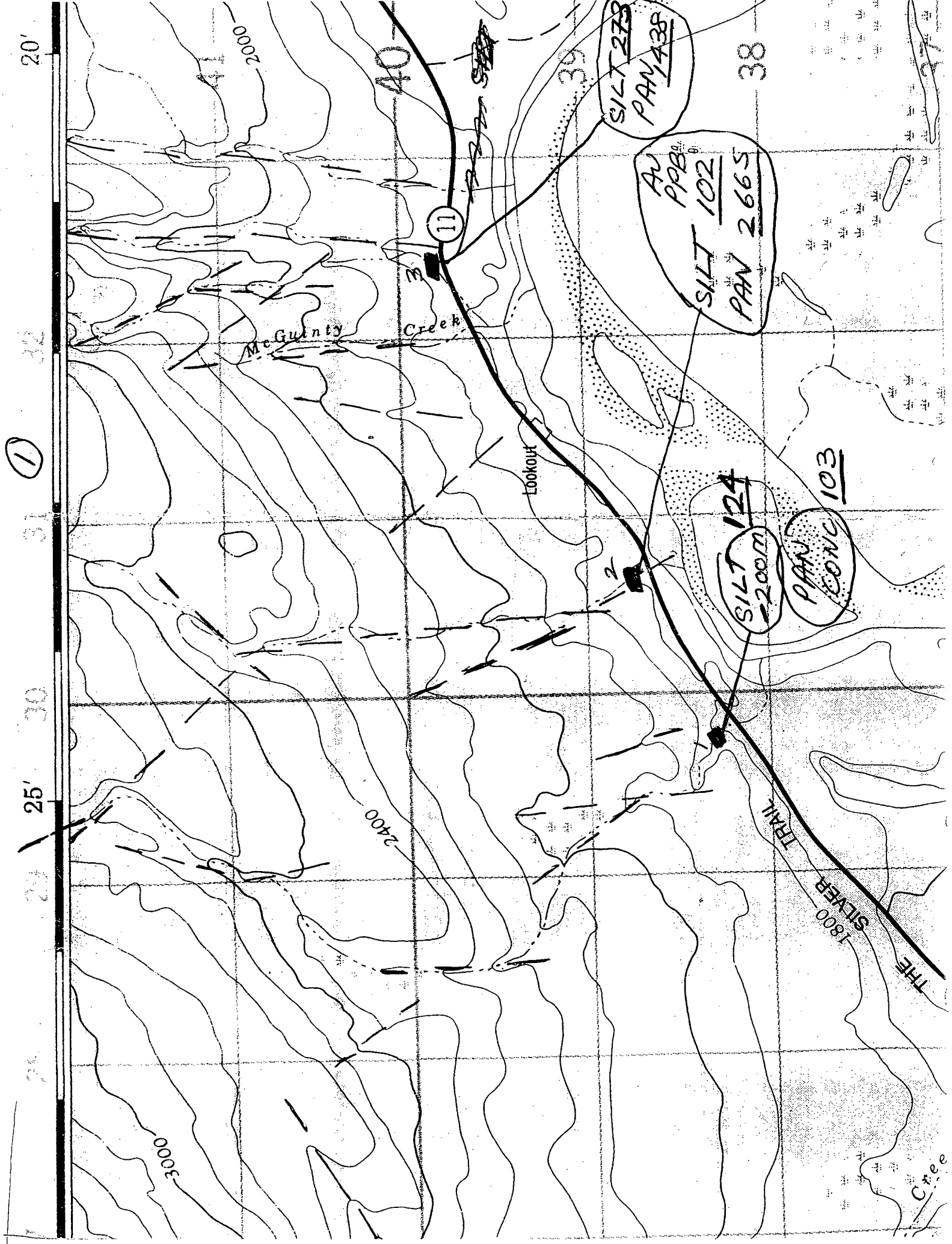
Peter Ross "EL GWAPO"

DEAR MIKE MARCHAND:

5
MAY

1998

- ① STAKED 1-20 ET CLAIMS (100%)
- ② ON ROAD TO MAYO
- ③ OLD-TIMERS CONSIDER THIS AREA TO BE SOURCE OF STEWART RIVER GOLD. (N+S of RIVER?)
- ④ LOT OF GLACIAL SAND.
- ⑤ GEOLOGY SIM TO BREWERY CR.
 - LOT OF GLACIAL SANDS
 - SE end of ~~25~~ (K) KM OF NW/SE LINEARS 25
 - STREAMS have eroded sands (CONFIRMED 3X)
 - + 3 STREAMS in AREA are ANOMOLOUS in -200 mesh Au (NOTHING ELSE) ALSO PAN CON.
 - IN PAST 1 SOIL LINE WAS DONE + 2 SOILS BELOW 1 LINEAR WERE WEAKLY - MOD. ANOMOLOUS
 - GOUT. SILTS suggest LINEARS MAY be GOLD BEARING on other side of Mt. PLACER
- ⑥ GOLD NOT ECONOMIC ABOVE THIS AREA + BOSTOCK? SAID NONE ABOVE MAYO RIVER!
- ⑦ LARGE AMOUNTS OF CALC TUFFA FRAGMENTS IN STREAM suggest recent + possible EPITHERMAL ACTIVITY.
- ⑧ NEVER EXPLORED PAST THIS.
- ⑨ *NO AS/Sb IN STREAMS; PO GO CR = Avalone, Brewery creek only a fine GOLD ANOM. + Au not related to AS/Sb?? GALAMBOS!!



20'

32

①

31

30

25'

29

28

2000

40

39

38

McGuinty Creek

Lookout

THE SLEEVER TRAIL
1800

Cree

SILT 273
PAN 438

AV
PAB
SILT 102
PAN 266S

SILT 124
200M

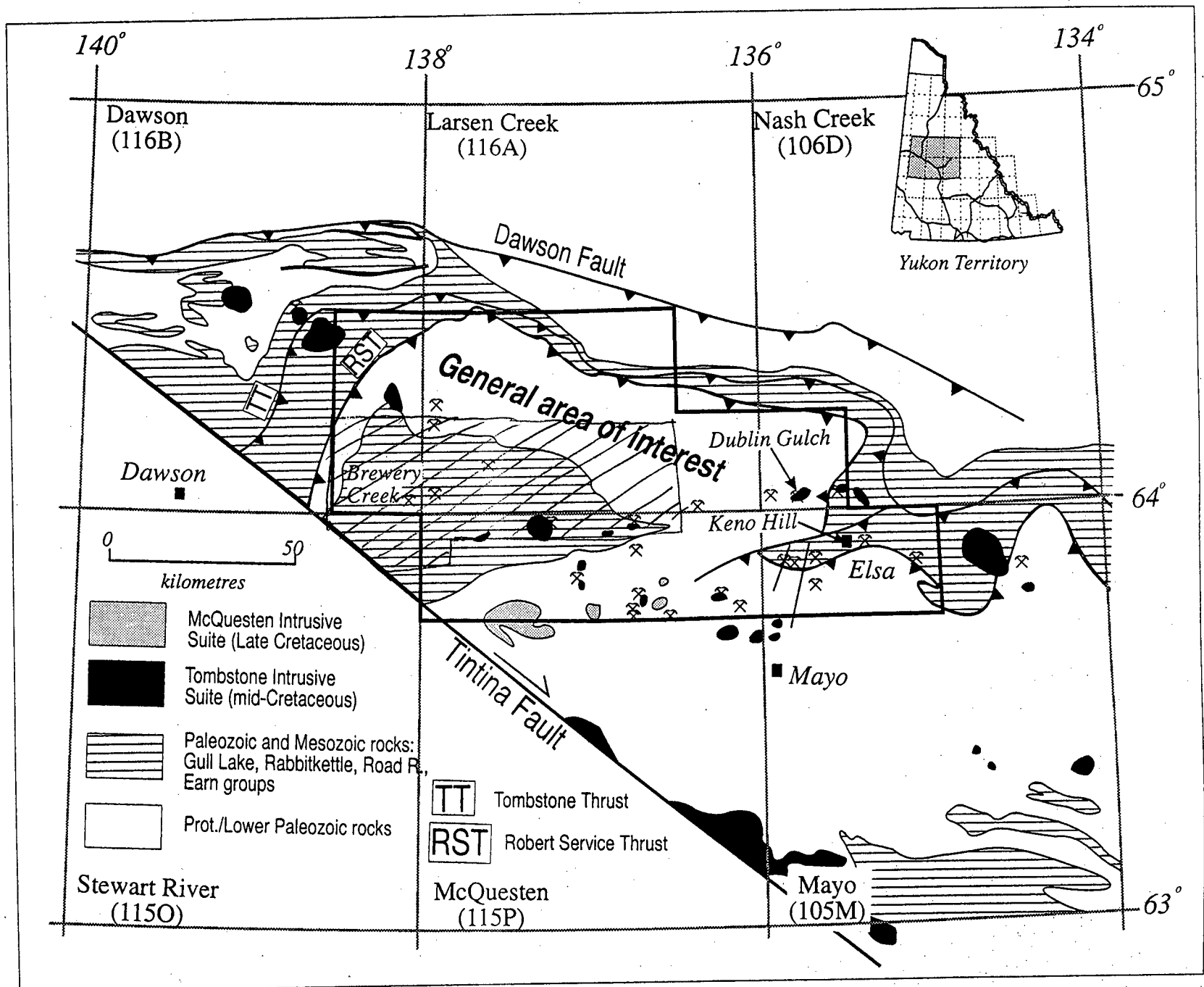
PAN CONC 103

11

2

1

GEOPHYSICAL SURVEY 2



The Canada/Yukon Geoscience Office and the Geological Survey of Canada are soliciting industrial partners for a regional airborne multiparameter (gamma ray spectrometry, ... end of the

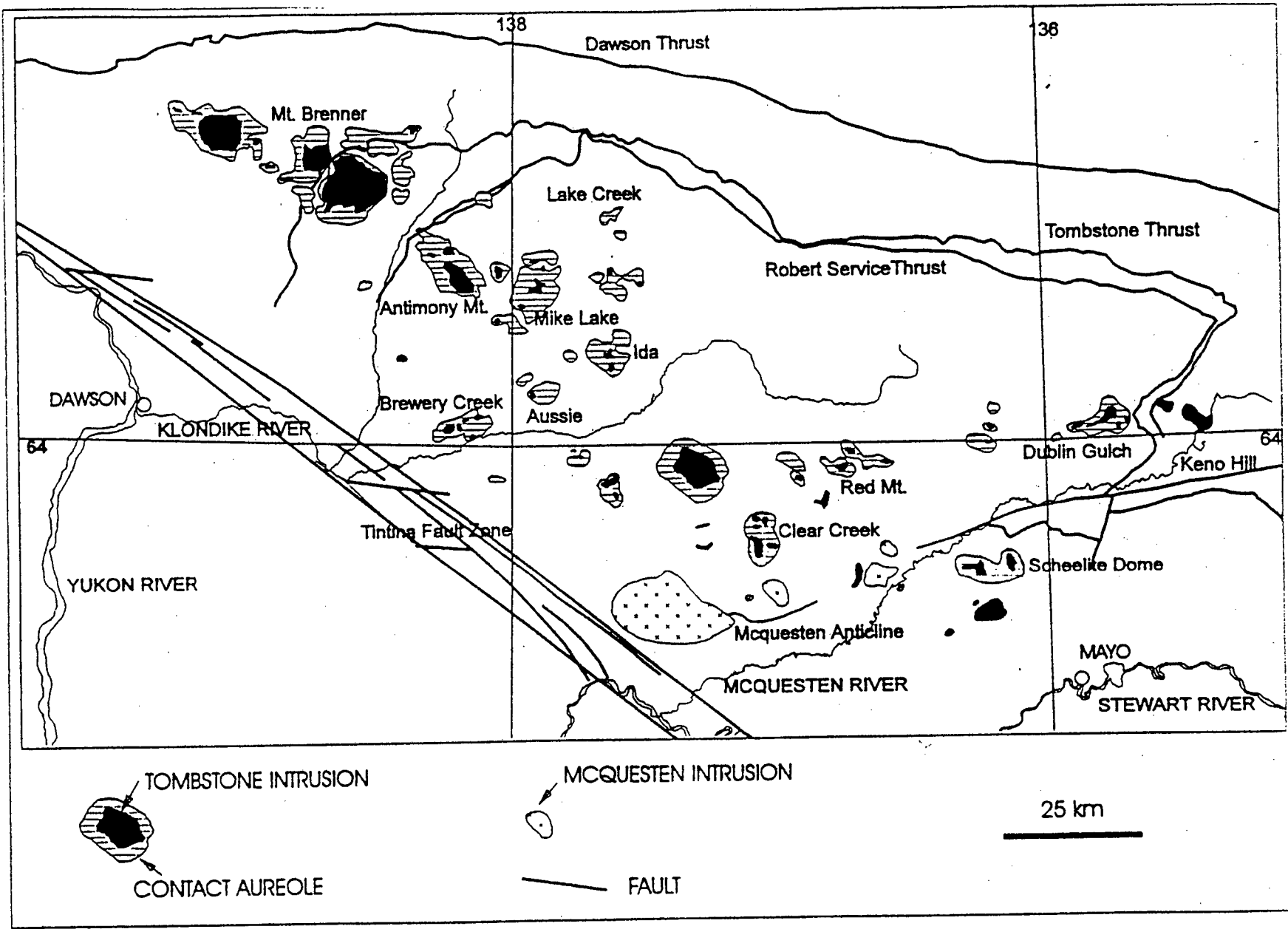


Figure 1. Sketch map of the main geological features in the Dawson-Mayo area, Yukon and of the locations of areas containing gold mineralization.

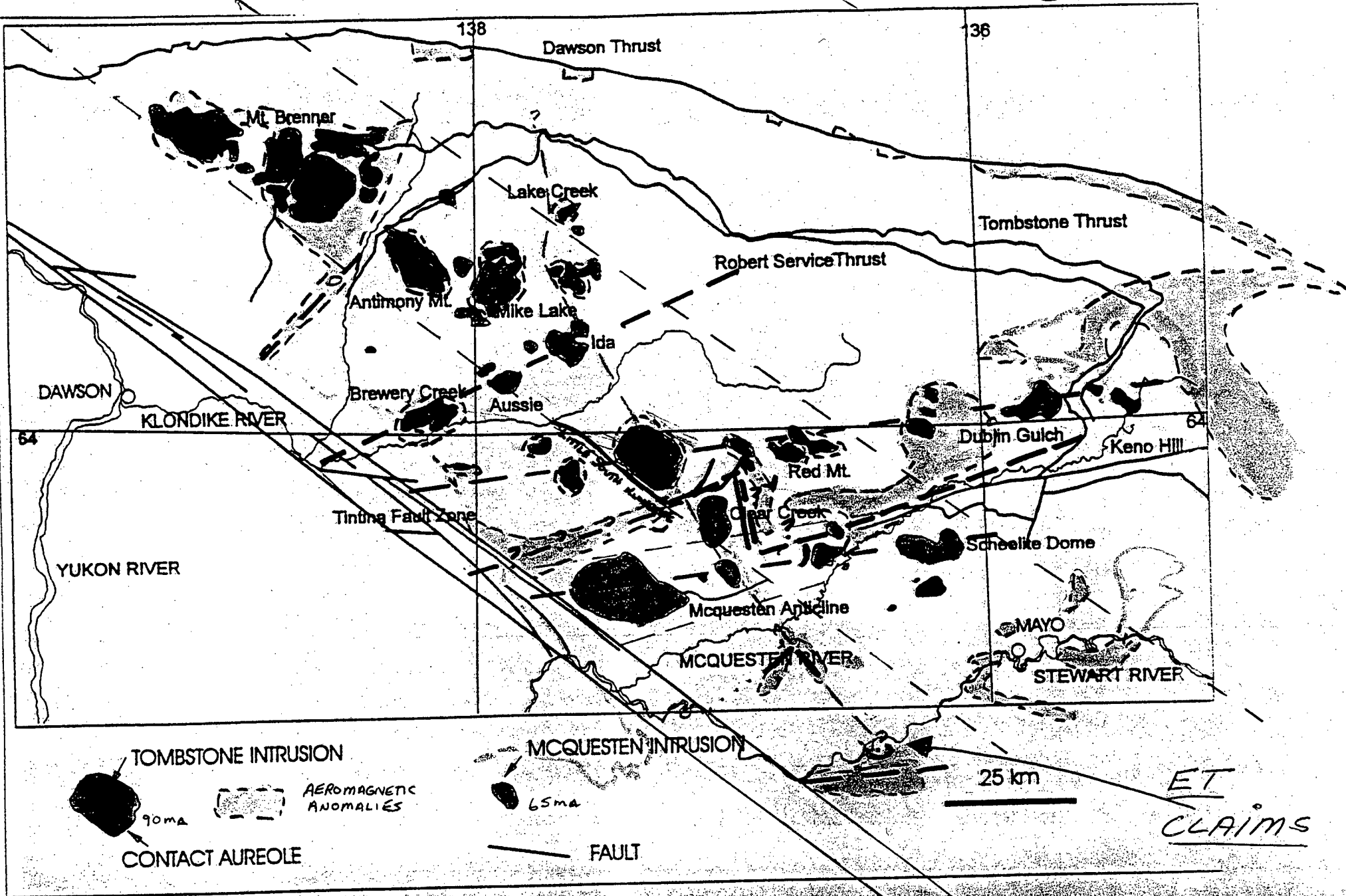


Figure 1. Sketch map of the main geological features in the Dawson-Mayo area, Yukon and of the locations of areas containing gold mineralization.

*needs
approval*

copy
MINFILE: 115P 042
PAGE NO: 1 of 1
UPDATED: 07/27/94

**YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE**

NAME(S): McGuinty
MINFILE #: 115P 042
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Selwyn Basin

NTS MAP SHEET: 115 P 8
LATITUDE: 63°28'47"N
LONGITUDE: 136°23'00"W
DEPOSIT TYPE: Unknown
STATUS: Uncertain

CLAIMS (PREVIOUS AND CURRENT)

DAVID, HALONA, PAN, SLEEPER

WORK HISTORY

Staked as David & Halona cl (YA41512) in Nov/79 by C. Charette and as Pan cl (YA43488) in Jan/81 by S. Schmidt. The Sleeper 10-29 cl (YB29730) were staked 2.5 km to the northwest in May/93.

GEOLOGY

The earlier claims are probably underlain by Late Proterozoic-Early Cambrian schist, quartzite, and phyllite and may have been staked to protect surface rights.

Bulk silt (-200 mesh) samples and pan concentrates collected in 1992 returned values of 273 ppb and 2665 ppb gold, respectively.

REFERENCES

K.D. Galambos, Mar/94. Assessment Report #093206 by K.D. Galambos.

PROPERTY REPORT

ON

SLEEPER 10 - 29 CLAIMS

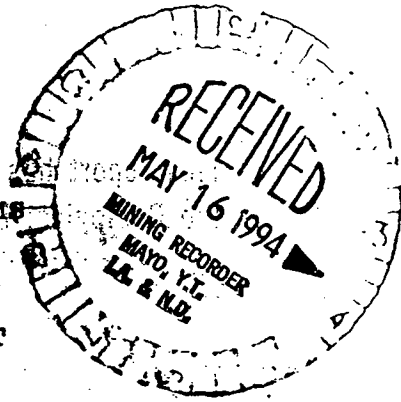
(YB29730-YB29749)

MAYO MINING DISTRICT

N.T.S.: 115/P8

LATITUDE: 63 deg. 29'N

LONGITUDE: 136 deg. 23'W



Work done May

093206

093206

OWNER: Kenneth D. Galambos
P.O. Box 5625
Whitehorse, Yukon Y1A 5H4
Tel: (403)633-6729

Report by:
Kenneth D. Galambos P.Eng
March 18, 1994

SUMMARY

The discovery of very fine gold in creeks draining into the Stewart River suggests a possible hardrock source for the vast amounts of flower gold which has been mined for decades from its point bars and back channels. This area has been staked as the Sleeper 10 - 29 claims.

The Sleeper Property consists of 20 contiguous quartz mineral claims situated in the Mayo Mining district approximately 20 km NE of Stewart Crossing and the Tintina Trench. The claims straddle the Silver Trail Highway.

The claims were staked to cover an area drained by creeks highly anomalous in fine gold. Bulk silt (-200 mesh) and pan concentrate samples collected during the 1992 season returned values of up to 273 ppb and 2665 ppb gold respectively. These anomalies are not evident from the - 80 mesh silt samples collected for the 1987, GSC Open File 1650 which showed the same creeks to carry no gold. Previous bulk sampling in 1990 returned similar and higher gold values from the same area.

Air photo analysis suggests a number of strong NW - SE structures trending through the area, some of which can be traced for up to 25 km. A large amount of calc tufa fragments indicate recent and possible past epithermal activity in the area.

Considering the above evidence, it is believed that there exists good potential for finding an economic gold deposit within the area covered by or in the immediate vicinity of the Sleeper Claims.

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CHAPTER ONE

INTRODUCTION

1-1: Introductory Statement

The Sleeper claims are located approximately 20 km NE of Stewart Crossing, Yukon. The claims were staked in May, 1993 to cover an area drained by creeks highly anomalous in gold. To date there appears to have been no activity in the area.

1-2: Location and Access

The property is situated in the Mayo Mining District, 20 km NE of the Tintina Trench, at 63 deg. 29' N and 136 deg. 23' W on the 115 P/8 mapsheet. Access is by the all weather asphalt Silver Trail Highway from Stewart Crossing.

1-3: Physiography and Vegetation

The claims lie within the southern reaches of the Ogilvie Mountains in an area partially glaciated by the Reid (Nistling) advance. The claim group is located on a gentle to moderate sloping, south eastern facing hill side overlooking the Stewart River. Elevations range from 1600' to 2700'.

Vegetation consists of primarily open mixed forest comprised of spruce, pine and aspen with some dense spruce and alder stands in swampier areas.

1-4: History of Claims

The Sleeper 10 - 29 claims (YB29730-749) were staked on May 8, 1993 and registered of May 17, 1993. Upon acceptance of this report, the claim group will remain in good standing until May 17, 1995.

1-5: Previous Exploration

The area does not appear to have undergone any recent exploration other than the bulk silt sampling program conducted by Noranda Exploration during 1990. It is sure to have been explored in the early part of the century by miners on their way to Mayo and Keno City, but probably passed by as there is little visual evidence of gold enrichment present.

1-6: Work Program

Three days were spent evaluating the property by MacKay Falkiner and Associates. Traverses were run through the property and one rock sample was collected and analyzed. In addition, a number of bulk silt samples and one rock sample collected in 1992 were sent for analysis by the owner of the property.

CHAPTER TWO

GEOLOGY

2-1: Regional Geology

The area has been mapped as graphitic phyllite and quartzite of Hadrynian age, previously known as part of the Yukon Group metamorphic rocks. These rocks are bounded to the south west by the Tintina Trench, a large Tertiary strike-slip fault system. Lower Cretaceous aged quartz monzonite, granodiorite and alaskite intrude the area as small stocks and plugs.

These intrusions, such as those present at Scheelite Dome and Minto Lake, do not have any significant magnetic signature. The magnetic signature of the region in question is relatively flat with the exception of a few small magnetic highs in the Moose Creek and Liberal Ridge areas.

The author believes that there are a number of large NE - SW trending extensional faults situated beneath the Stewart and McQuesten Rivers and Moose Creek with a younger NW - SE offsetting fault system which extends from the Sleeper Property and the Stewart River at least 25 km to the north east. This is suggested by breaks in topography as well as offset magnetic trends such as the magnetic high on Moose Creek.

2-2: Property Geology

Air photo analysis suggests a number of strong NW - SE trending structures through the area, some of which can be traced

for up to 25 km to the north east. Further evidence of these structures is indicated by the presence of calc tufa fragments containing organic leaf material. This indicates possible recent and past epithermal activity in the area.

Only a few outcrops were noted during the staking of the property. These have invariably been phyllitic in nature with minor to heavy quartz veining present.

TABLE OF FORMATIONS

UNIT	
QUATERNARY	
21	Surficial deposits undivided
20	Stream deposits, alluvium
TERTIARY	
19	Stream deposits, alluvium; 19a "White Channel Gravel"
17	17a, rhyolite, trachyte; 17b, granite and syenite porphyries, trachyte
JURASSIC AND/OR CRETACEOUS	
14	Granite, granodiorite, quartz monzonite
13	Syenite, monzonite
ORDOVICIAN OR EARLIER (YUKON GROUP)	
4	Schist, quartzite, phyllite, limestone

CHAPTER THREE

GEOCHEMISTRY

3-1: Silt Geochemistry

Silt samples collected for the GSC OPEN FILE 1650 show a number of creeks in the region anomalous in gold. Of importance in the general area are two creeks draining the backside of the large hill on which the Sleeper Claims were staked. These returned values of 54 (14) and 40 (95) ppb gold. The numbers in parentheses represent repeat analysis. As well, another creek which drains the south western slope returned a value of 46 ppb gold. The creeks draining the claim block did not register any significant values from traditional -80 mesh sampling. Two other samples of note flank the offset magnetic high situated on Moose Creek which is also on strike with suspected structures which pass through the claim block. These returned values of 31 and 17 ppb gold.

As mentioned above, the creeks draining the Sleeper Property do not appear to carry any gold when sampled using traditional -80 mesh silt sampling techniques. This is however not the case when bulk samples are collected and the -200 mesh fraction is analyzed. Using this methodology, bulk samples and pan concentrate samples were collected in 1992 from creeks accessible from the Silver Trail Highway. Samples BS-92004, BS-92006 and BS-92010 returned values of 102, 124 and 273 ppb gold respectively from the -200 mesh fraction of silt collected from these creeks. Pan concentrate samples H-92003 and H-92009 returned highly anomalous values of

2665 and 1438 ppb gold respectively from two of the creeks. Sample H-92009 contained a number of small colours while H-92003 showed no visual evidence of gold enrichment. The author believes that the sample containing visible gold is closer to the structural source. Similar bulk sampling by Noranda in 1990 returned similar or higher gold values from the same general area. Follow up sampling showed the anomalous values to be repeatable and the creeks to contain elevated fine gold values at least 4 km up stream.

One sample from Rusty Creek (BS-92008) also returned anomalous arsenic values of 56ppm, which is greater than the 95th percentile for the mapsheet. This is contrary to the values obtained in the GSC OPEN FILE.

3-2: Soil Geochemistry

Seventy-eight soil samples were collected in the vicinity of the property in 1990 by Noranda Exploration. Of the analysis received from the company to date one area appears to be slightly anomalous in gold values. This area although off of the claim block is situated immediately down slope from one the suspected structures which run through the property.

3-3: Rock Geochemistry

Two rocks have been collected from the property and analyzed by Chemex Labs Ltd. and Northern Analytical/International Plasma Ltd.. They consisted of a limy quartz-rich phyllite and white quartz vein material. Both returned background values.

CHAPTER FOUR

CONCLUSIONS & RECOMMENDATIONS

The discovery of fine gold in creeks draining into the Stewart River indicates a possible hardrock source for the vast amounts of fine placer gold which has been mined for decades from its point bars and back channels. This area has been staked as the Sleeper 10 - 29 claims.

The Sleeper Property consists of 20 contiguous quartz mineral claims situated in the Mayo Mining district approximately 20 km NE of Stewart Crossing and the Tintina Trench. The claims partially straddle the Silver Trail Highway.

The claims were staked to cover an area drained by creeks highly anomalous in fine gold. Bulk silt (-200 mesh) and pan concentrate samples collected during the 1992 season returned values of up to 273 ppb and 2665 ppb gold respectively. Previous bulk sampling in 1990 returned similar or higher gold values from the same area.

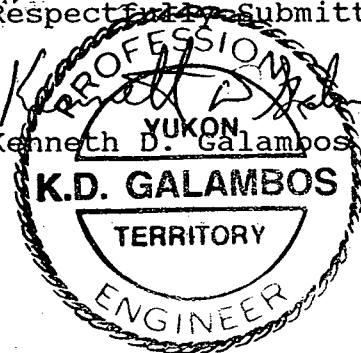
Air photo analysis suggests a number of strong NW - SE structures trending through the area, some of which can be traced for up to 25 km.

The area also contains evidence of possible recent and past epithermal activity as indicated by the presence of a large amount of calc tufa fragments in the creeks.

It is believed that there exists a good possibility for finding an economic gold deposit within the area covered by or in the immediate vicinity of the Sleeper Claims.

It is recommended that, upon option of the Sleeper Property, the claim group be expanded to cover possible mineralized extensions to the north east as far as the withdrawn block #R-22B situated immediately north of Moose Creek. Further investigations should include soil and geophysical surveys (magnetometer and EM) in the vicinity of suspected structures followed by trenching and drilling of the anomalies discovered.

Respectfully Submitted,
Kenneth D. Galambos
Kenneth D. Galambos P. Eng.



APPENDIX A
SILT SAMPLE RESULTS

SILT SAMPLE RESULTS

1992 SAMPLING

<u>Sample #</u>	<u>Gold(ppb)</u>	<u>Arsenic(ppm)</u>
BS 92004	102	na
BS 92006	124	nd
BS 92008	26	56
BS 92010	273	na
BS 92012	<5	nd

na - not analyzed

nd - not detected

1990 SAMPLING

<u>Sample #</u>	<u>Gold (ppb)</u>
FS 137548	results not available
FS 137549	results not available
FS 139276	269
FS 139278	92
FS 139280	110
FS 138388	9
FS 138390	53
FS 138392	107

APPENDIX B

PAN CONCENTRATE RESULTS

PAN CONCENTRATE RESULTS

1992 SAMPLING

<u>Sample #</u>	<u>Gold (ppb)</u>
H 92003	2665
H 92005	103
H 92007	240
H 92009	1438
H 92011	205

APPENDIX C
SOIL SAMPLE RESULTS

SOIL SAMPLE RESULTS

1990 SAMPLING

<u>Sample #</u>	<u>Gold (ppb)</u>
P 142551-575	results not available
P 143961	<5
P 143962	7
P 143963	31
P 143964	<5
P 143965	16
P 143966	<5
P 143967	<5
P 143968	<5
P 143969	5
P 143970	<5
P 143971	<5
P 143972	36
P 143973	18
P 143974	7
P 143975	<5
P 139001-038	results not available

APPENDIX D

ROCK SAMPLE RESULTS

ROCK SAMPLE RESULTS

1993 SAMPLING

<u>Sample #</u>	<u>Gold (ppb)</u>
R 93001	<5
R 82001	<5

LIST OF EXPENDITURES

MFA Professional Services	\$1850.00
Sample analyses	25.00
Prospector analyses	117.25
Report writing, drafting, etc.	<u>600.00</u>
total:	2592.25

STATEMENT OF QUALIFICATIONS


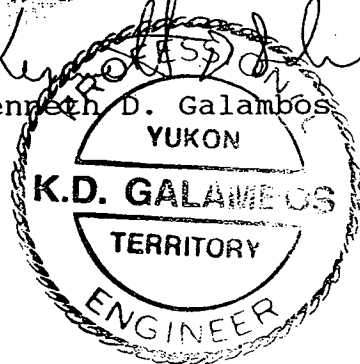
I have a Bachelor of Engineering degree in Geological Engineering from the University of Saskatchewan, 1982.

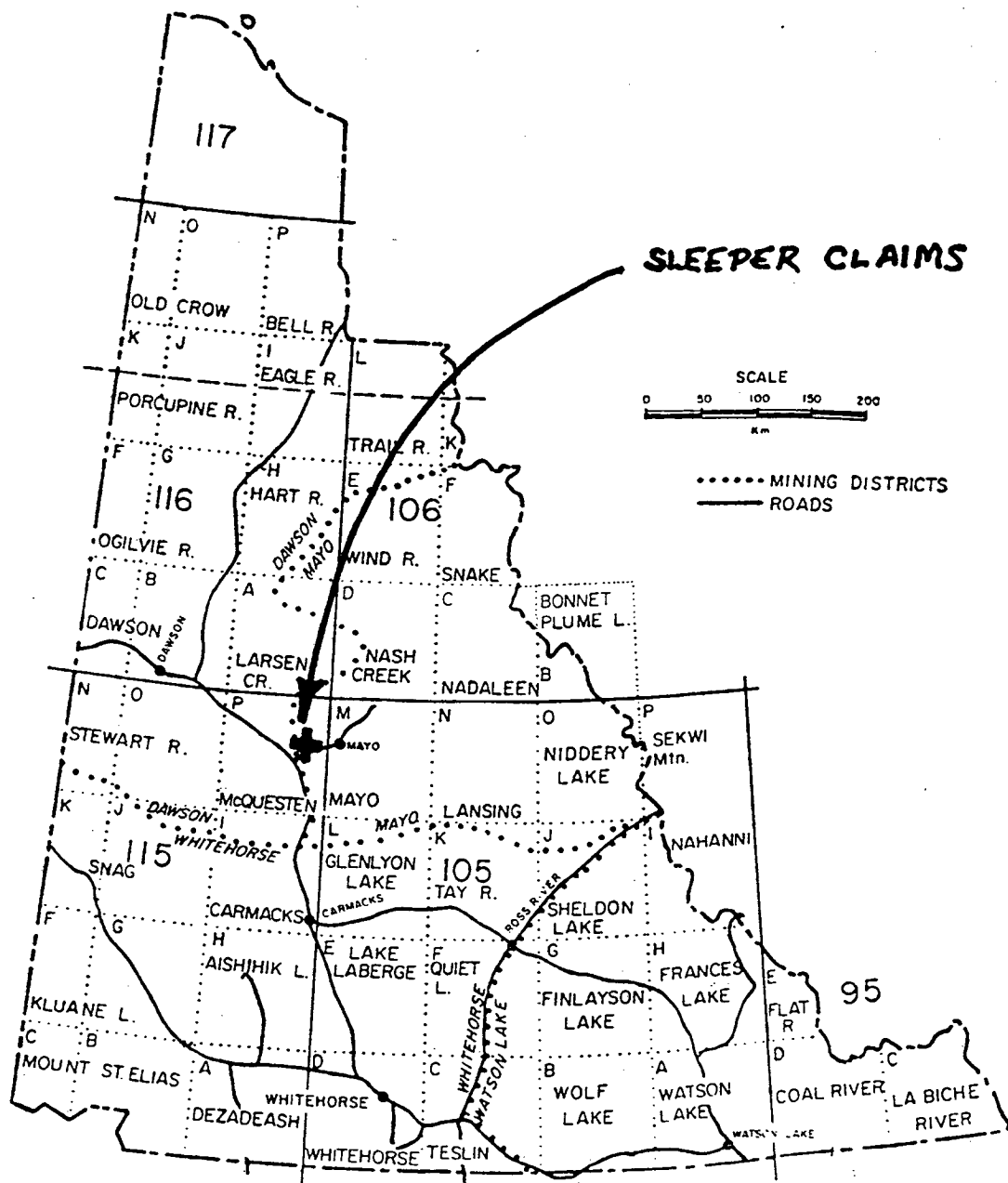
I am a member of the Association of Professional Engineers of Yukon Territory.

I have worked in the mineral exploration and mining industries in northern Canada since 1975.

I reside at Km 10.5 of the North Klondike Highway, and have been a resident of the Yukon Territory since 1985.

I hold 100% interest in the Sleeper Claims.


Kenneth D. Galambos P. Eng.

The seal is circular with a rope-like border. It contains the text: "YUKON" at the top, "K.D. GALAMBOS" in the center, "TERRITORY" below the center, and "ENGINEER" at the bottom.



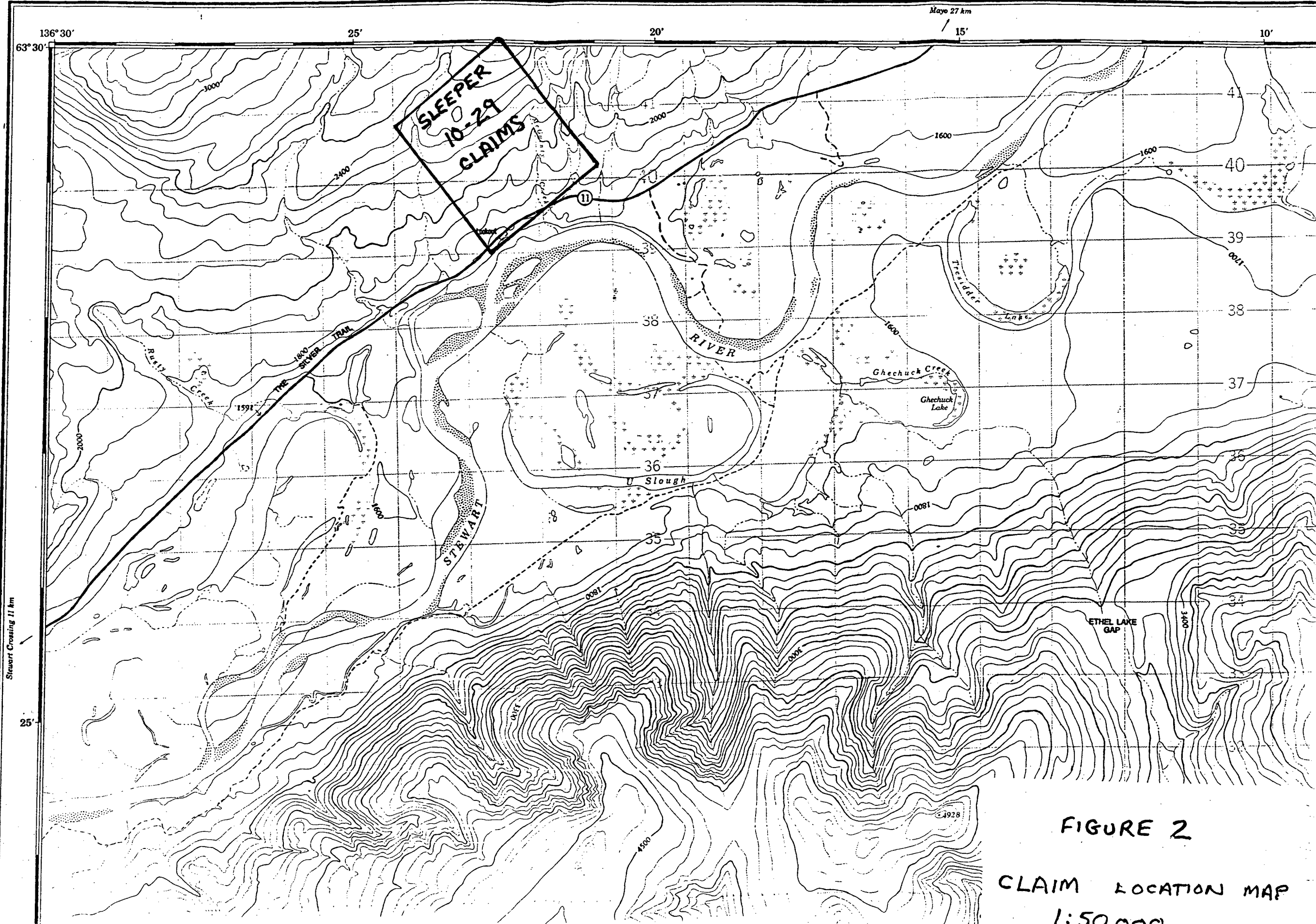


FIGURE 2

CLAIM LOCATION MAP
1:50,000

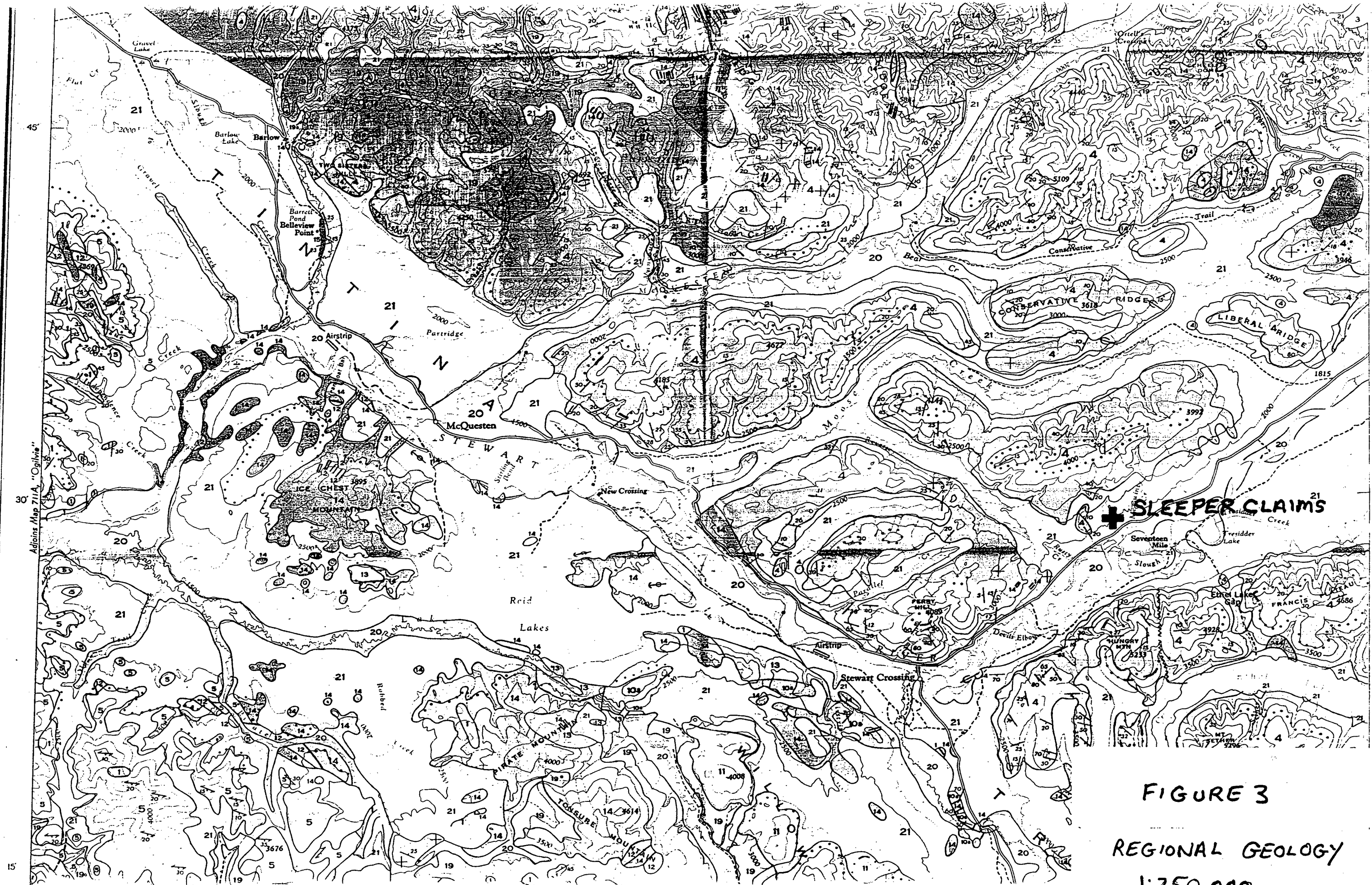


FIGURE 3
 REGIONAL GEOLOGY
 1:250,000

22

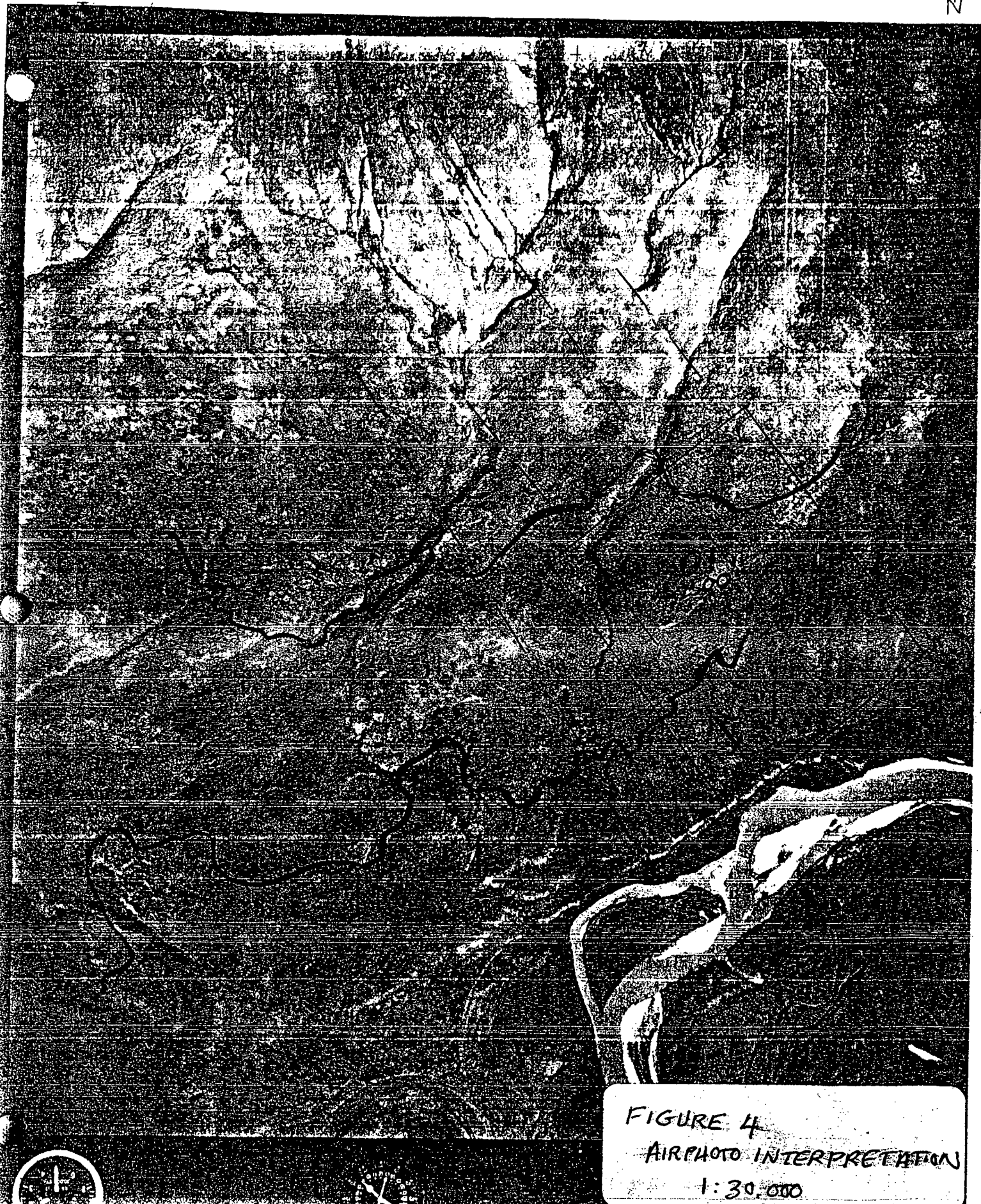


FIGURE 4
AIRPHOTO INTERPRETATION
1:30,000

BEST ATTAINABLE

A12183-90

N

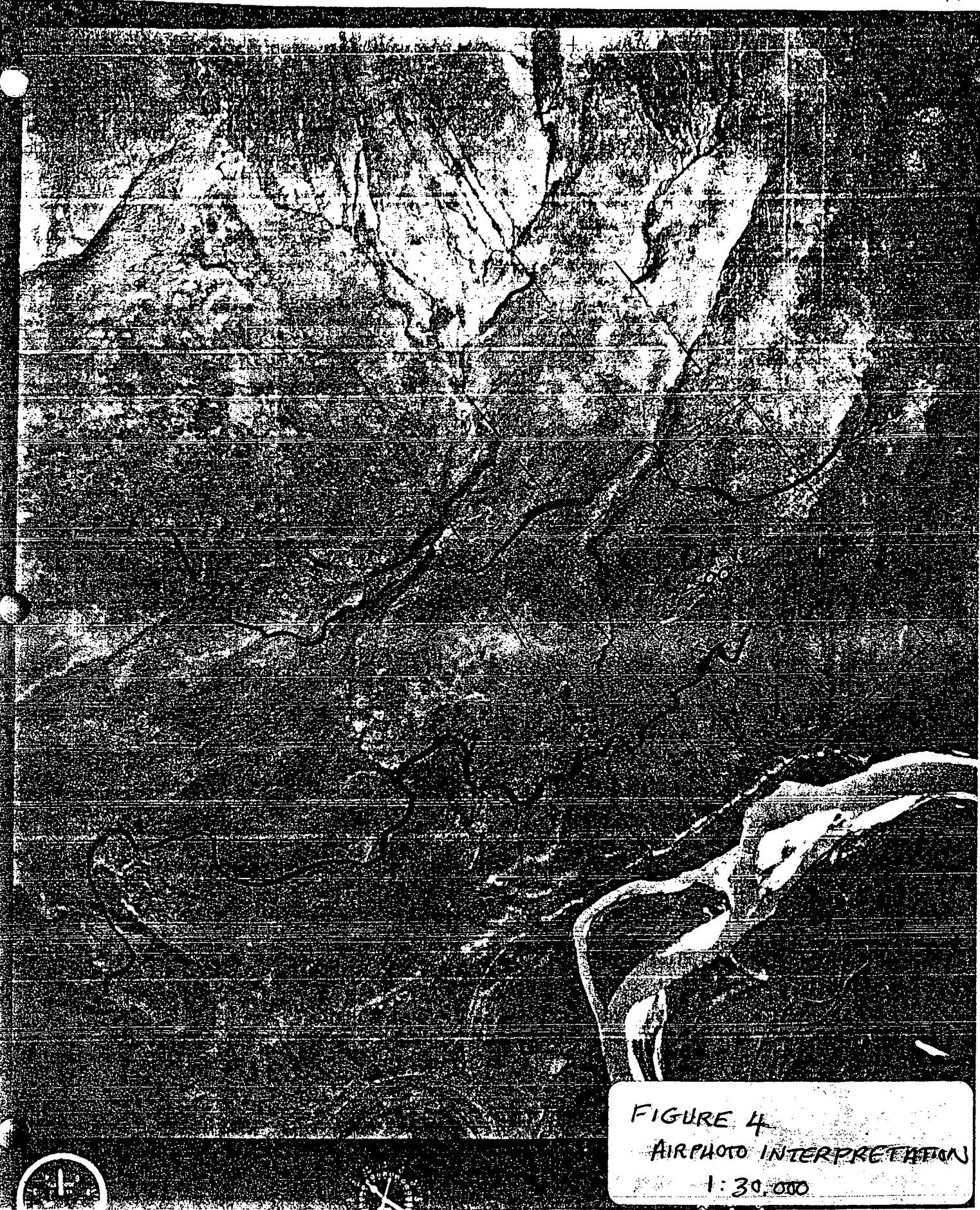
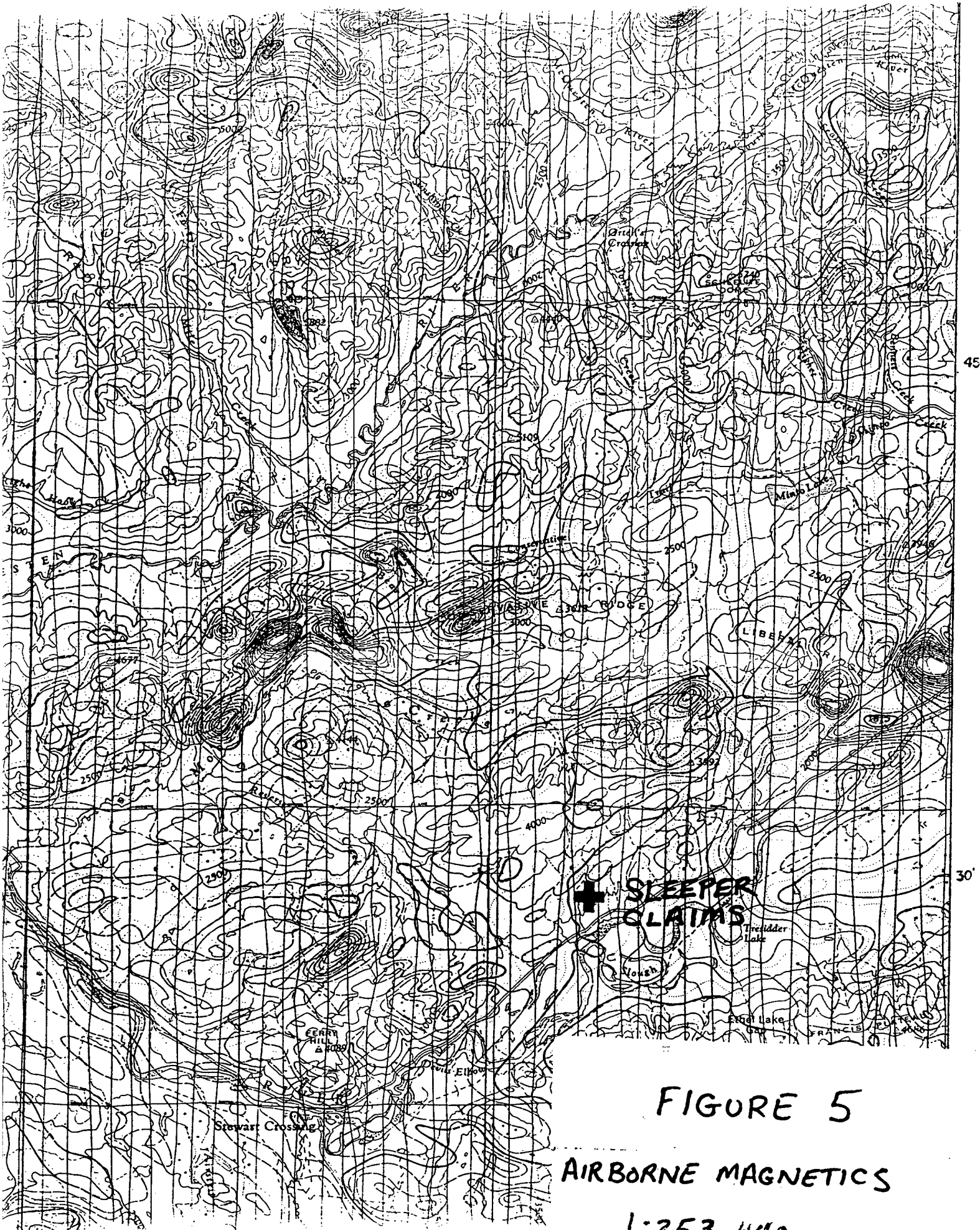


FIGURE 4
AIRPHOTO INTERPRETATION
1:30,000

BEST ATTAINABLE IMAGE

A12183-90



45

30

FIGURE 5

AIRBORNE MAGNETICS

1:253,440

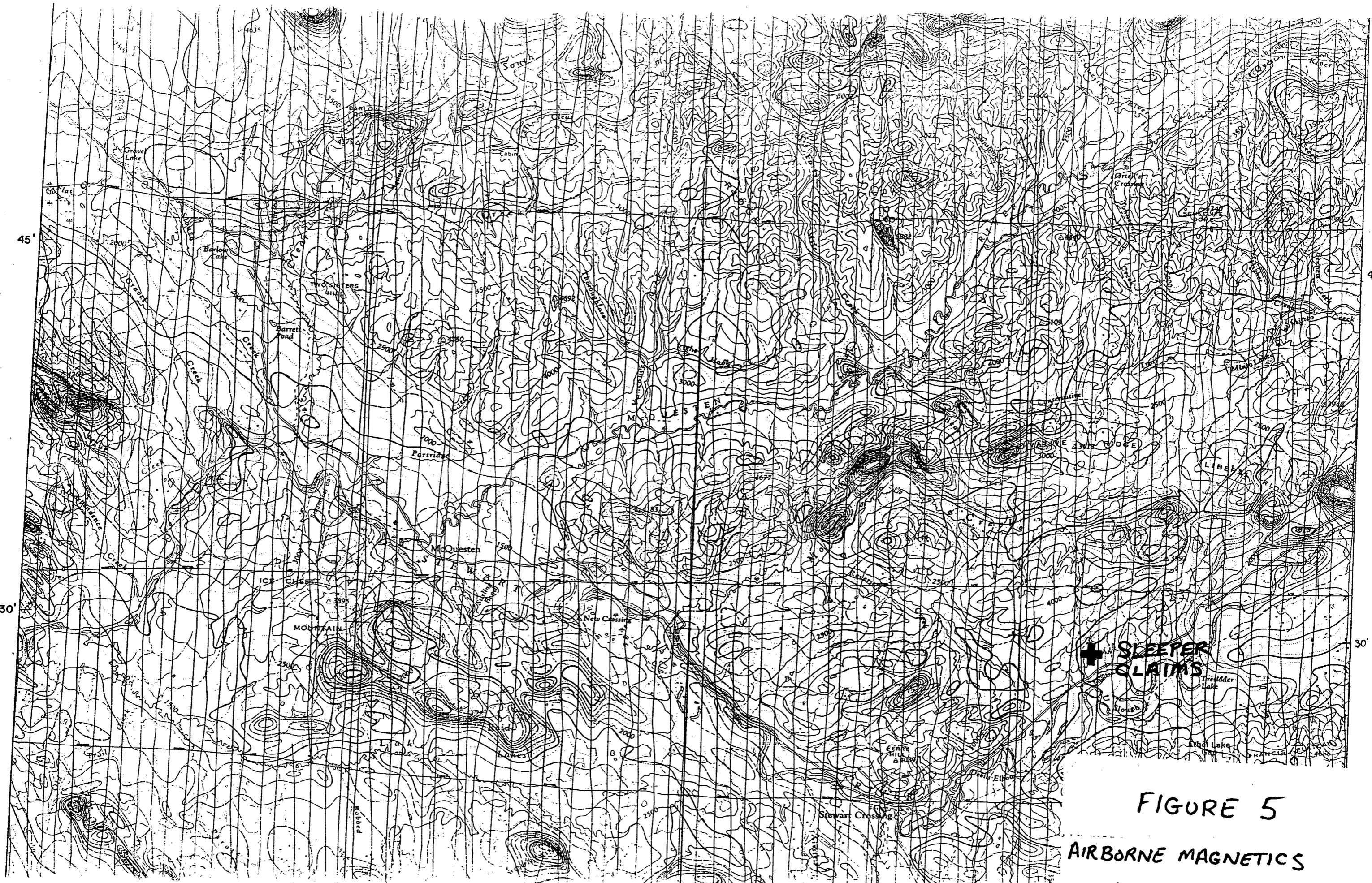
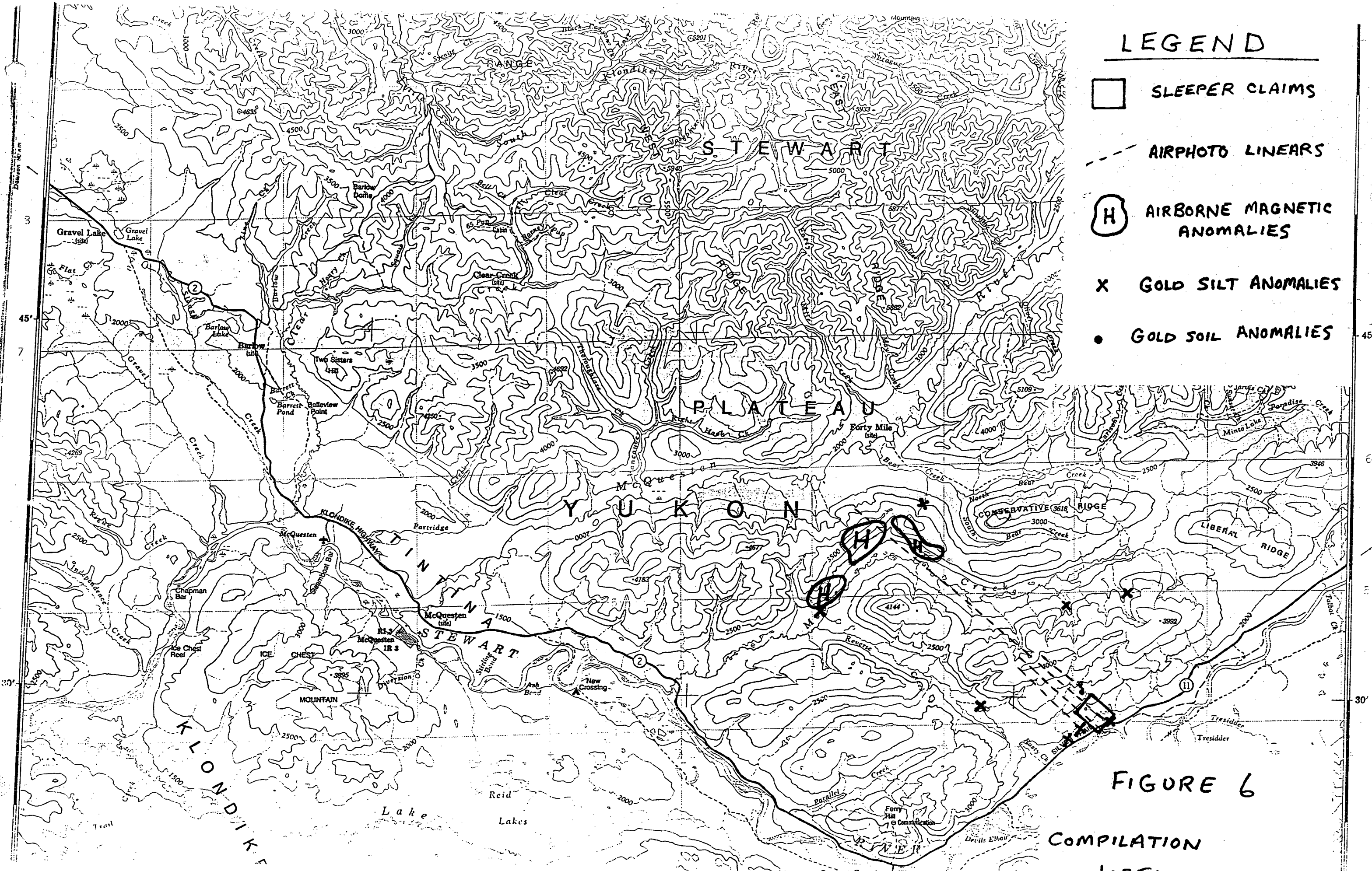


FIGURE 5
 AIRBORNE MAGNETICS
 1:253,440



LEGEND

- SLEEPER CLAIMS
- - - AIRPHOTO LINEARS
- (H) AIRBORNE MAGNETIC ANOMALIES
- X GOLD SILT ANOMALIES
- GOLD SOIL ANOMALIES

FIGURE 6

COMPILATION
1:250,000

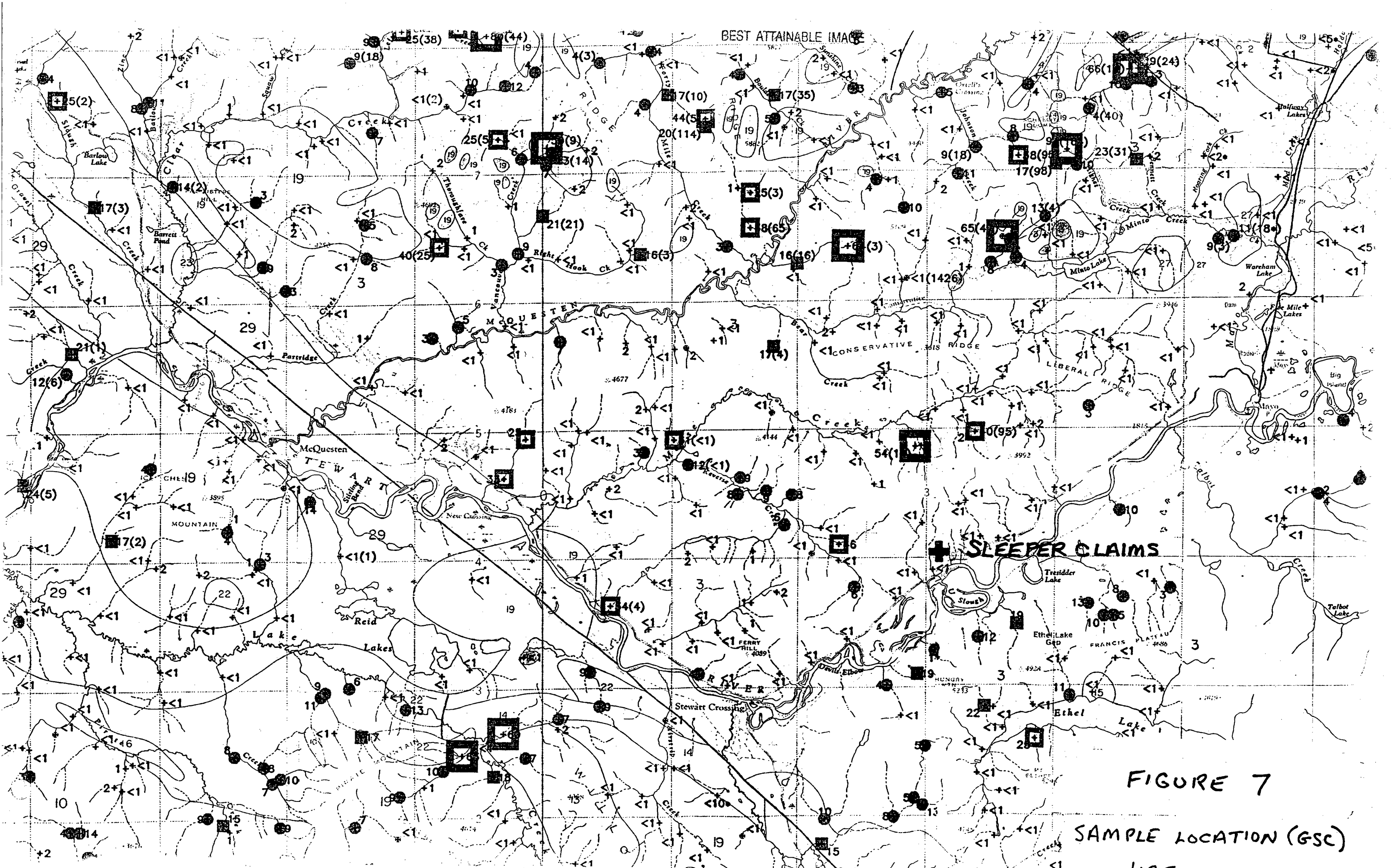


FIGURE 7
 SAMPLE LOCATION (GSC)
 1:250,000

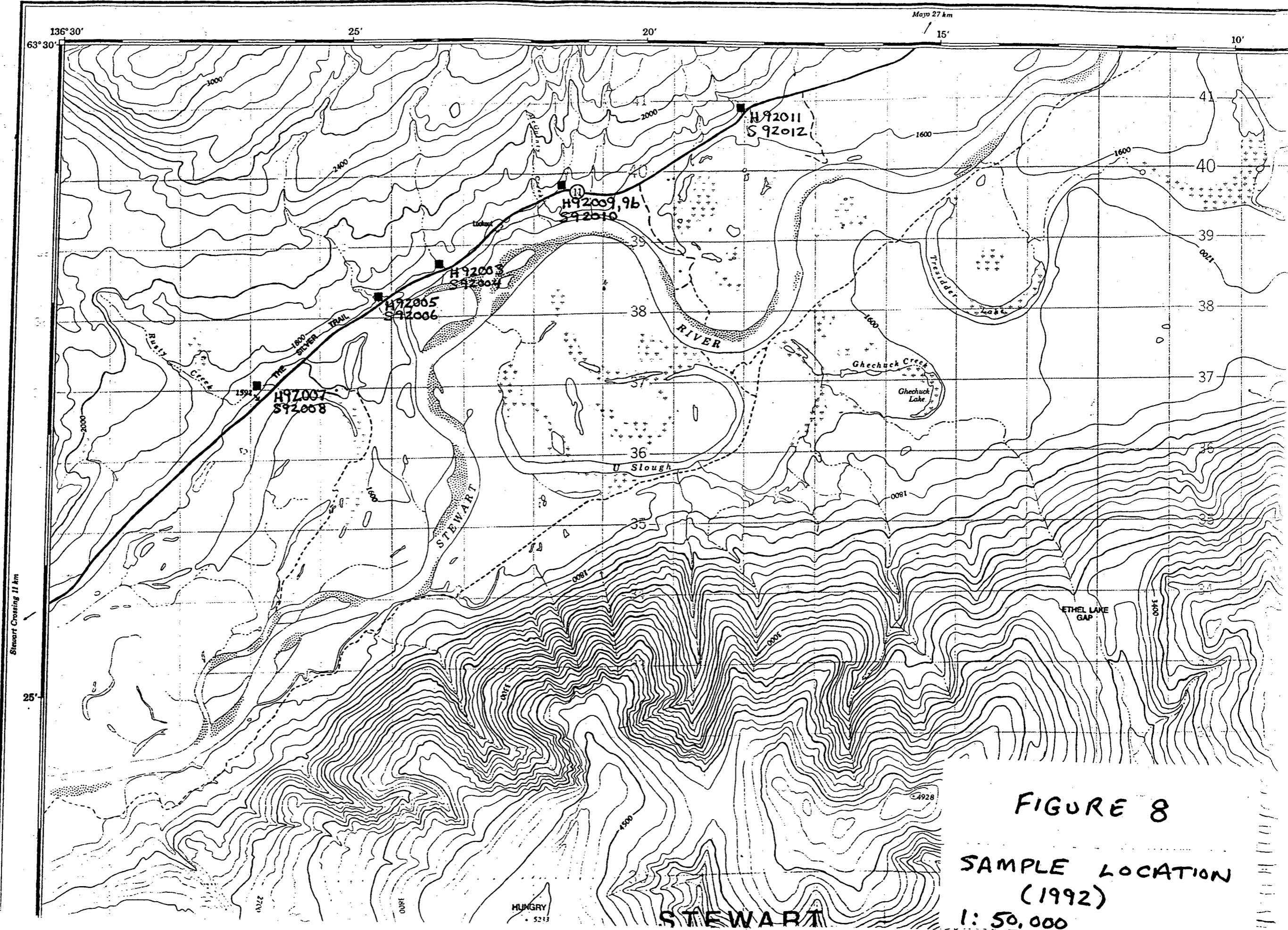


FIGURE 8
SAMPLE LOCATION
(1992)
1: 50,000

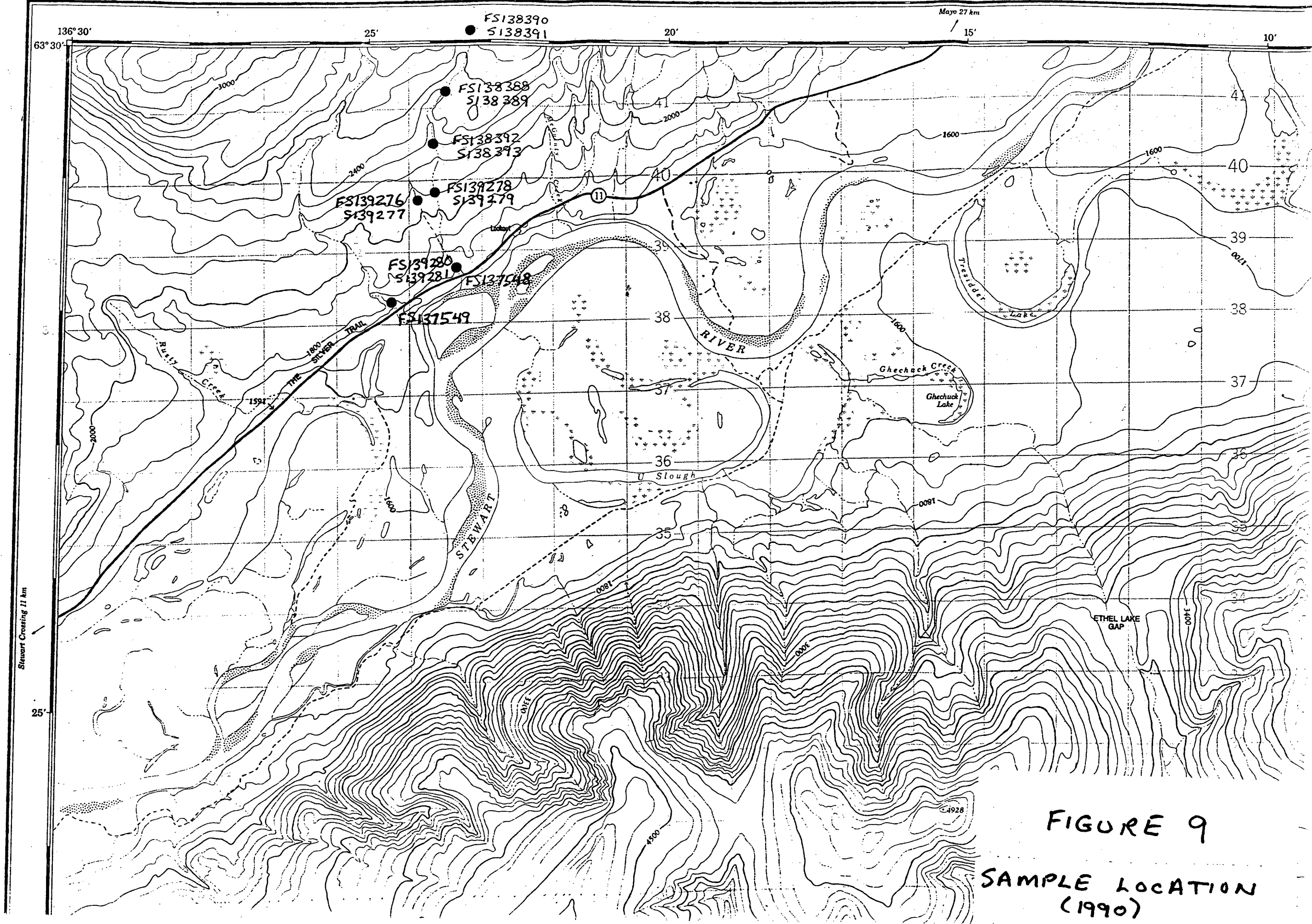


FIGURE 9
SAMPLE LOCATION
(1990)

115P/09

115P/08

7043 000m. N

63° 30'

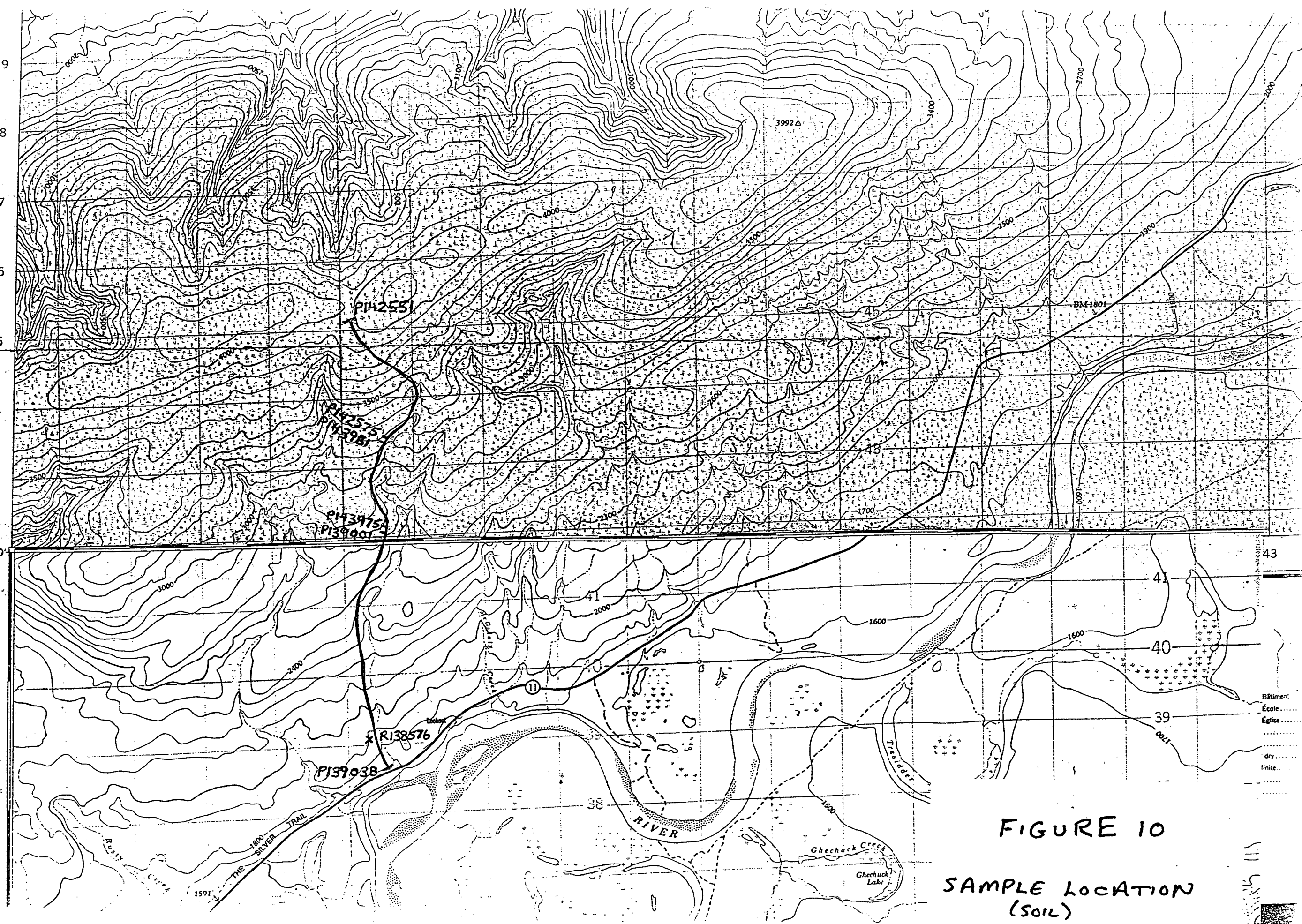
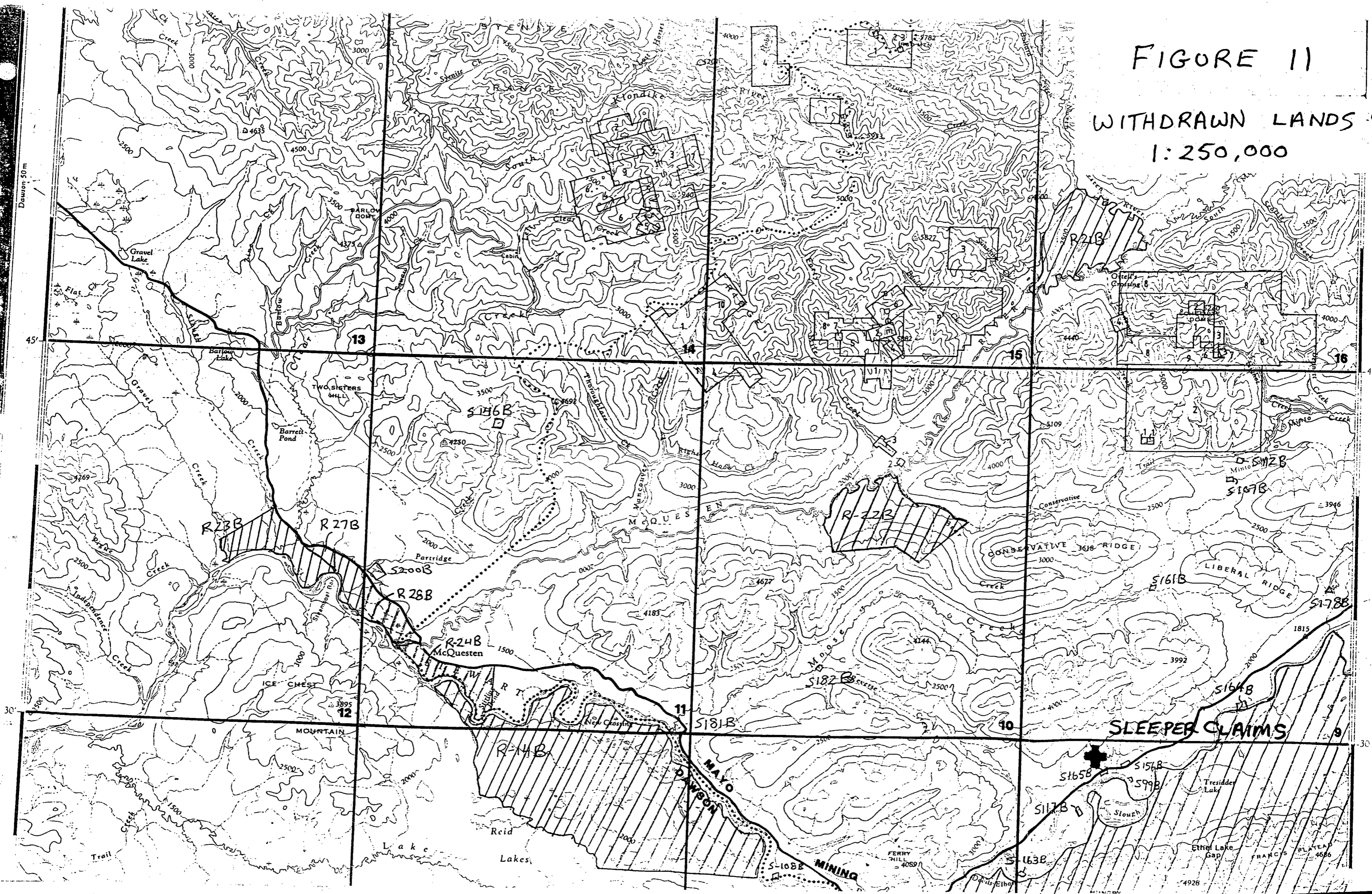


FIGURE 10
 SAMPLE LOCATION
 (SOIL)
 1:50,000

115
 115
 115


FIGURE 11
WITHDRAWN LANDS
1:250,000



③
1

HASSELBERG LAKE PROJECT (1998) GRASS ROOTS

The project is 63 miles northwest of WATSON LAKE. It is in the WATSON LAKE MINING DISTRICT on MAP 105 A 13. One can drive to WATSON LAKE on a well maintained highway. Then by helicopter to area.

My target is an epithermal GOLD deposit. But it is possible also an ANTIMONY deposit may be present. My area of project is marked by 

My reasons are as follows

- ① In past a government geochem silt survey showed 4 samples to be anomalous in Au, 3 of these in As, 3 of these in W.
- ② 30 VIVI claims were staked + recorded.
- ③ 3 of the anomalies were confirmed.
- ④ a large area may be anomalous.
As + Sb zoning may be present.
eg. VM 4 Au Sb anomaly
VS 9 Au Sb "
VS 10 Au Sb "
VS 7 ~~H~~ - As "
VS 8 Au - As "
?
- ⑤ Hydrothermally altered (felsic volcanics with quartz veining) = similar to GOLD epithermal deposits are present.

- BEDROCK OUTCROP WAS LOCATED.
- ③ V8-V15. According to Jim McFaul, local geologist. However, no gold was found ^{in FLORA}.
 - ⑥ A major fault is present. Epith. deposits are linked to faults.
 - ⑦ The ~~spring~~ STRING BOG intrigues me; but I can not test it. Is it a recessive mineralized breccia or??
 - ⑧ According to an article on Au-Sb in N.F.L.D. If Sb is found, the gold is located below it at depth or closer to a mineralizing pluton.
 - ⑨ Stream sampling (moss and silt) should be very effective here!!
 - ⑩ Sb anomalies over 10 ppm are significant. I plan to go to 2 locations and stake 8 more claims, redo VM4, VS7, VS8, VS9, VS9 and do more moss mat ^{+ SILT} sampling below + above these areas. I will do more prospecting and look for more hydrothermally altered areas like V8-V15.

Hopefully with more samples in streams the anomalous area(s) can be more defined.

I have discussed this area with John Kowalchuk and Craig Hart.

③ REFERENCES

3

① GSC OPEN FILE 3293

NTS 105A13 SE YUKON 96

② SUMMARY OF WORK

HASSELBERG LAKE AREA

YUKON TERR NTS 105A13

JOHN PETER ROSS

③ ORE DEPOSITS

VOLUME #1 NELO. 90UT

Sb deposit (I have misplaced

???)

(the article, it is
now at my house)

④ PERSONAL COMMUNICATION

JOHN KOWALCHUK - Nu-Lite / UAN
- Kenrich / BC

JIM McFaul - YUKON geologist

CRAIG HART - YUKON EDA GEOL.

③ BUDGET HASSELBERG (1998
 4 LAKE PROJECT GRASS
 ROOTS)
 115 A 13

GAS (GMC Truck)
 WH → WL → WH \$ 460
 1000 KM x \$.46 / KM

Helicopter
 → Δ 1 \$ 1200
 → Δ 2 1200
 boat 1200

DIEM Δ 1 10) 29 x \$ 35 \$ 805
 Δ 2 14)

SILTS 30 x \$ 20 600
 MOSS MATS 10 x \$ 30 \$ 300
 Rocks 20 x \$ 22 440

RADIO \$ 300 / month x 25% \$ 75
 SELF OWNED

MISC + GEAR \$ 500

total \$ 6,780

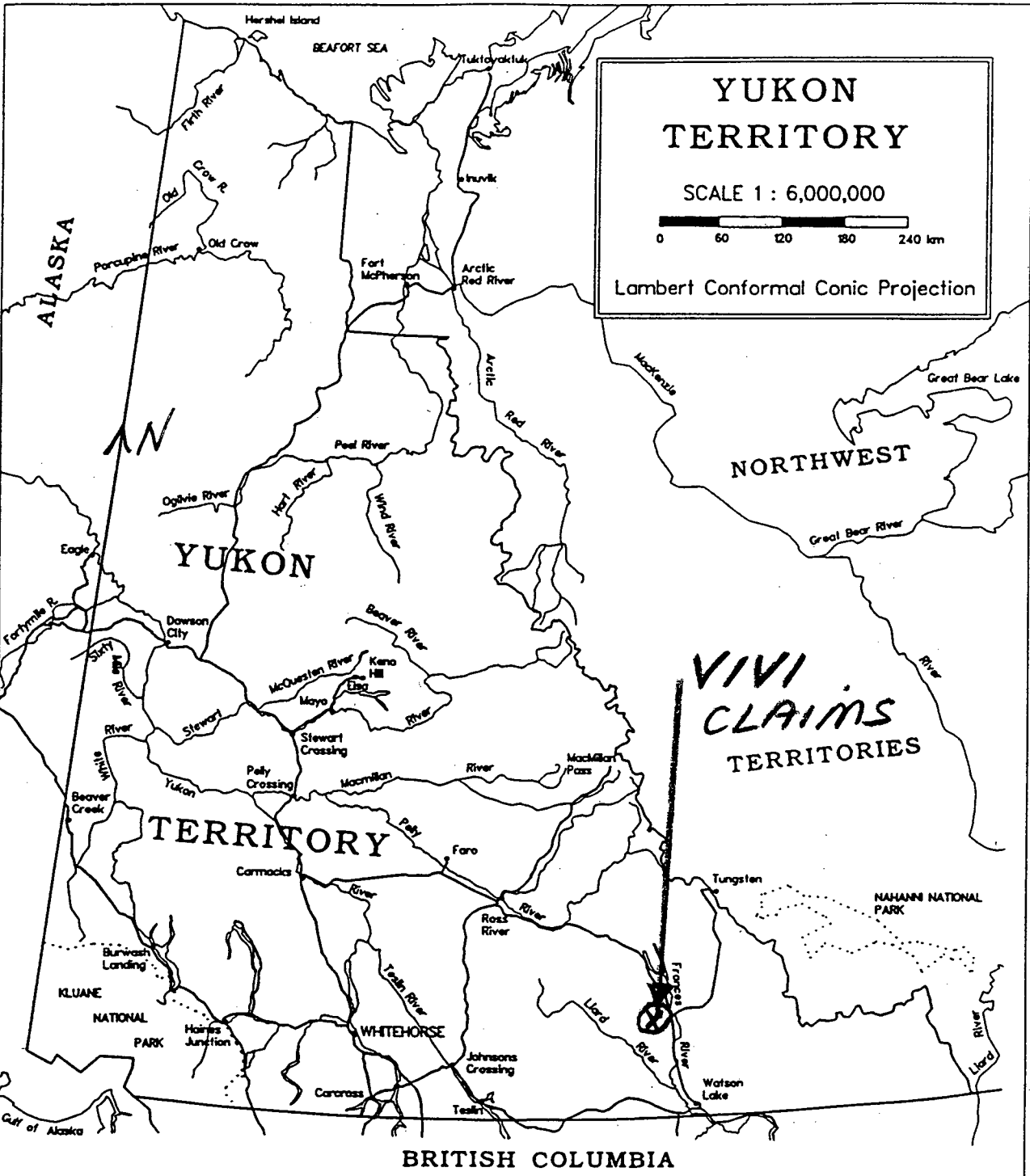


FIGURE # 1
LOCATION MAP
VIVI 1-30 (~~1997~~)
(1998)

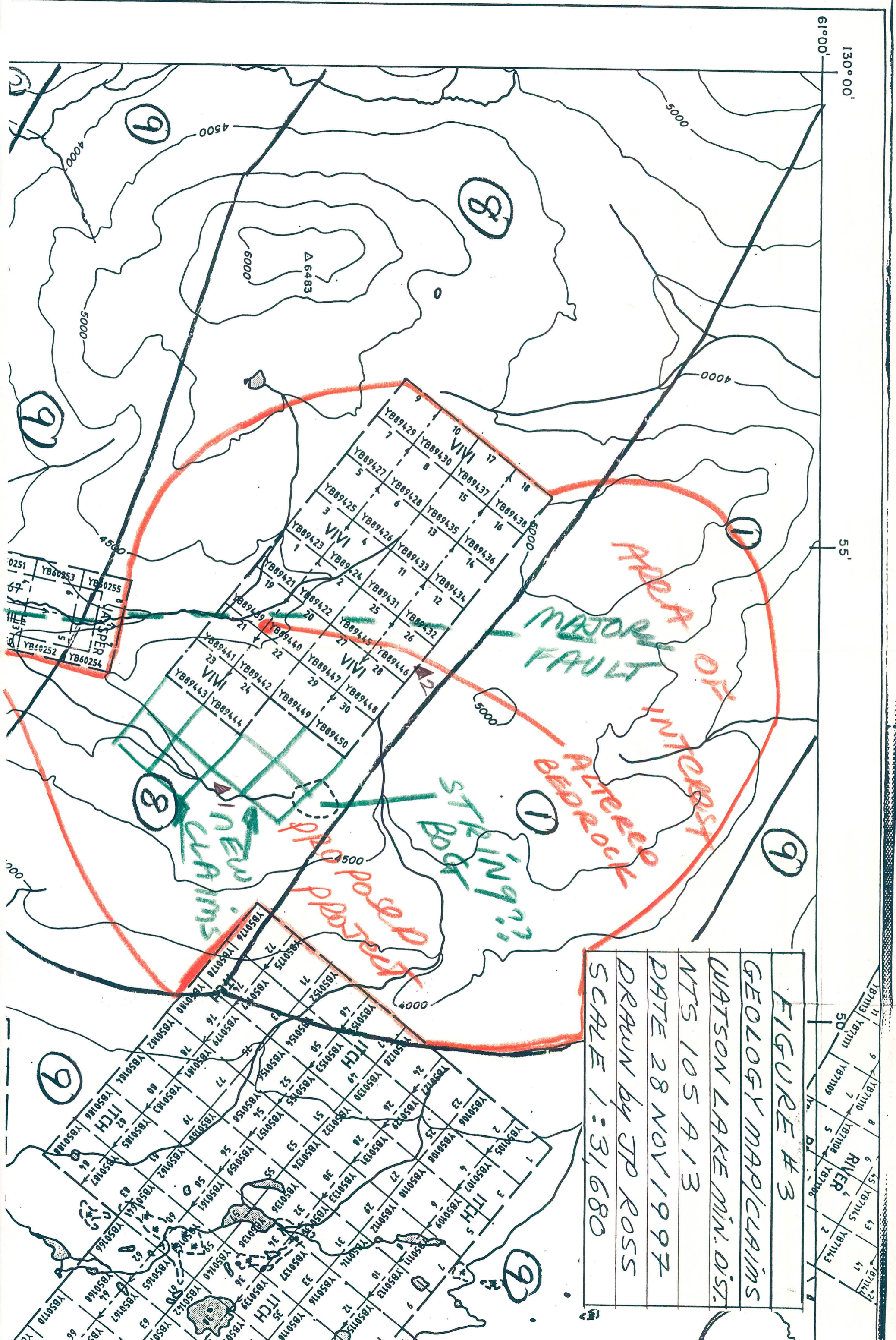


FIGURE # 3
 GEOLOGY MAP/CLAIMS
 WATSON LAKE MIN. DIST.
 NTS 105 A 13
 DATE 28 NOV 1997
 DRAWN by J.P. ROSS
 SCALE 1:31,680

11	YB7113	YB7114	YB7115	YB7116	YB7117	YB7118	YB7119	YB7120	YB7121
10	YB7103	YB7104	YB7105	YB7106	YB7107	YB7108	YB7109	YB7110	YB7111
9	YB7093	YB7094	YB7095	YB7096	YB7097	YB7098	YB7099	YB7100	YB7101
8	YB7083	YB7084	YB7085	YB7086	YB7087	YB7088	YB7089	YB7090	YB7091
7	YB7073	YB7074	YB7075	YB7076	YB7077	YB7078	YB7079	YB7080	YB7081
6	YB7063	YB7064	YB7065	YB7066	YB7067	YB7068	YB7069	YB7070	YB7071
5	YB7053	YB7054	YB7055	YB7056	YB7057	YB7058	YB7059	YB7060	YB7061
4	YB7043	YB7044	YB7045	YB7046	YB7047	YB7048	YB7049	YB7050	YB7051
3	YB7033	YB7034	YB7035	YB7036	YB7037	YB7038	YB7039	YB7040	YB7041
2	YB7023	YB7024	YB7025	YB7026	YB7027	YB7028	YB7029	YB7030	YB7031
1	YB7013	YB7014	YB7015	YB7016	YB7017	YB7018	YB7019	YB7020	YB7021

MAP 1 - NTS 105A
SAMPLE LOCATION
STREAM SEDIMENT
GSC OPEN FILE 3293
SOUTHEASTERN YUKON 1996

GEOLOGICAL LEGEND

CENOZOIC

11 Felsic to intermediate volcanic rocks; minor tillite and limestone

10 Nonmarine clastic sediments; minor felsic volcanics

PALEOZOIC

9 Mafic to ultramafic rocks and associated marine carbonates and clastics

8 Intermediate to felsic volcanics and associated marine carbonates and clastics

7 Mainly marine carbonates and shales; minor siliceous sediments (chert)

6 Marine and nonmarine clastic sediments; minor limestone and coal

PROTEROZOIC

5 Mainly clastic marine sediments; minor limestone and basalt

4 Mainly siliceous and carboniferous sediments; minor evaporite, mafic volcanics, and iron formation

PLUTONIC ROCKS

3 Granite, leucogranite, alaskite, quartz monzonite, granophyre

2 Granodiorite, leucogranodiorite, quartz monzonite, quartz diorite, tonalite

1 Ultramafic rocks

— Geological Boundary

Geological base modified from Map 1712A, Tectonic Assemblage Map of the Canadian Cordillera, digital map series.

130°00'
61°00'

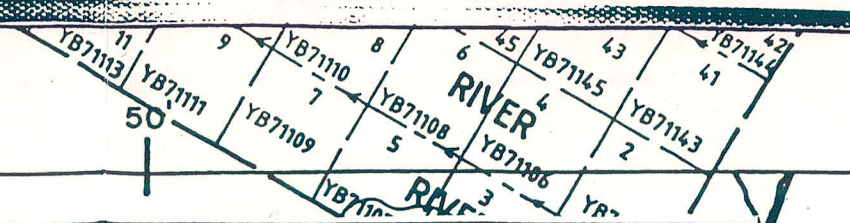


FIGURE #5
 GOVT SILT SAMPLE LOC.
 WATSON LAKE MIN DIST
 NTS 105 A13
 ● GSC SILT SAMPLE
 DATE 28 NOV 1997
 DRAWN by JP ROSS
 SCALE 1:31,680

#1209
 Au 32 ppb
 As 8.9 ppm
 W 11 ppm
 Sb 3 ppm

#1214
 LOW
 VALUES

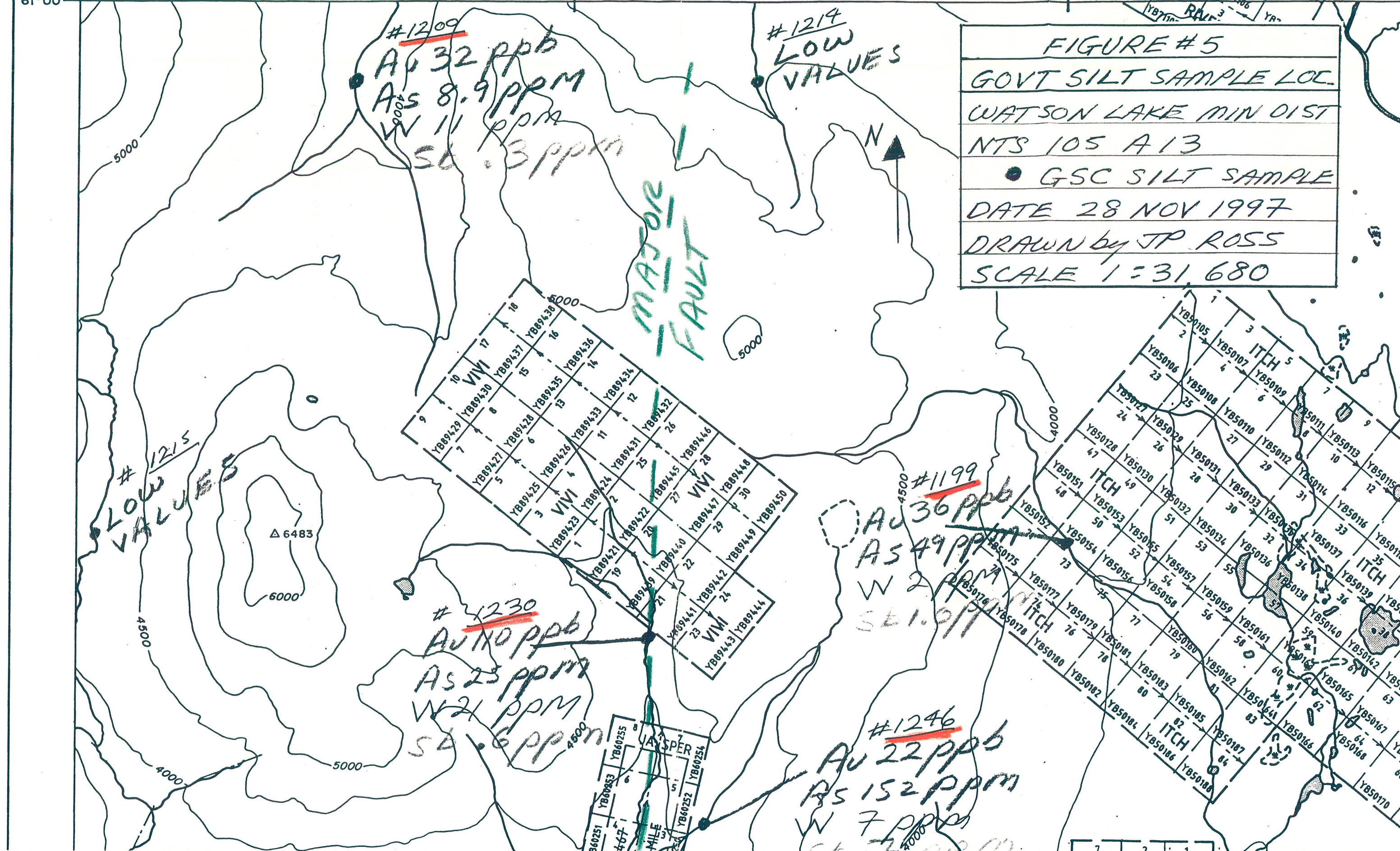
MAJOR
 FAULT

#1215
 LOW
 VALUES

#1230
 Au 110 ppb
 As 23 ppm
 W 21 ppm
 Sb 6 ppm

#1199
 Au 36 ppb
 As 49 ppm
 W 2 ppm
 Sb 1.9 ppm

#1246
 Au 22 ppb
 As 152 ppm
 W 7 ppm
 Sb 2 ppm

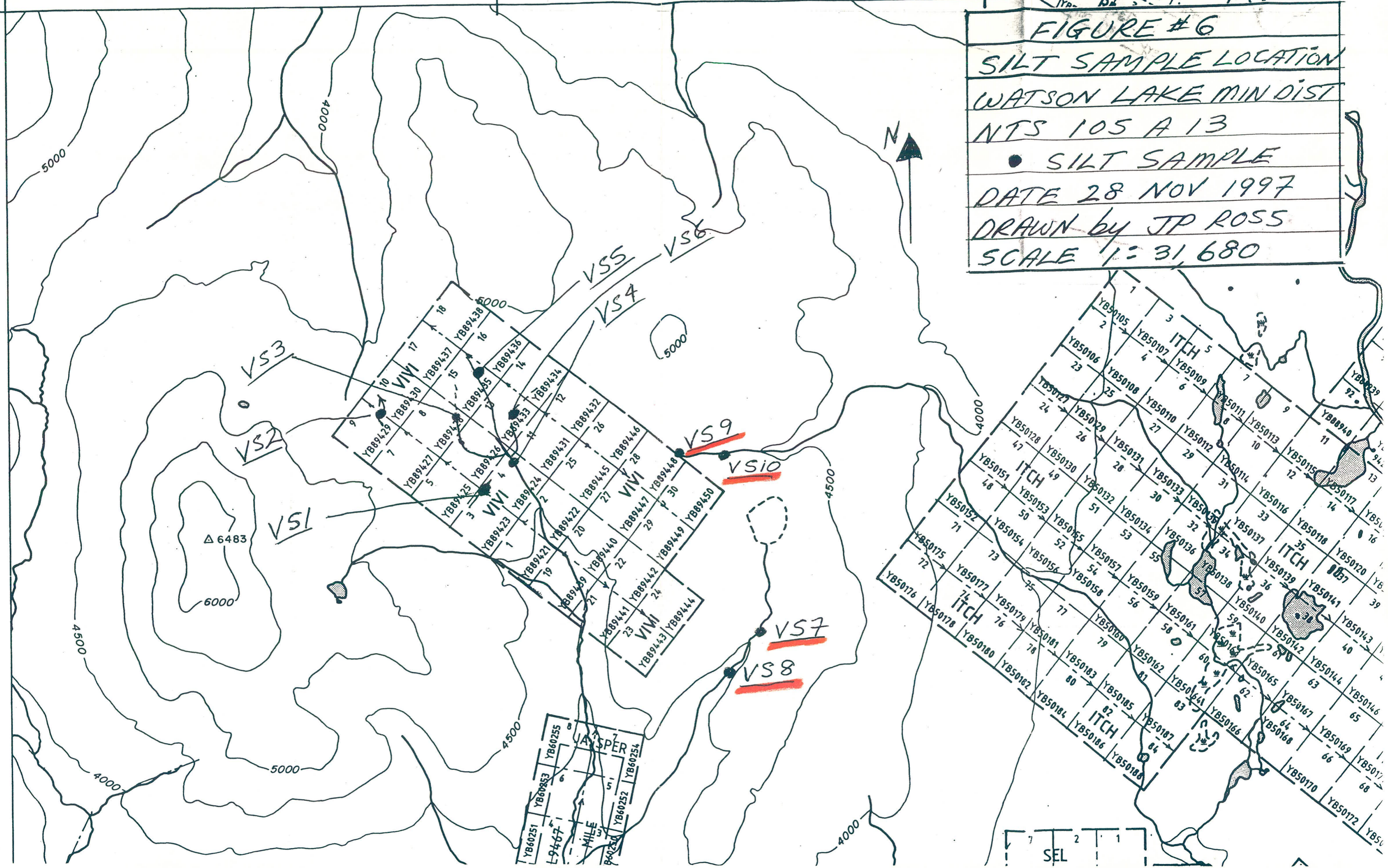


130° 00'

55'

11	9	8	6	4	2
YB71113	YB71111	YB71110	YB71108	YB71106	YB71105
50	50	50	50	50	50

FIGURE #6
 SILT SAMPLE LOCATION
 WATSON LAKE MIN DIST
 NTS 105 A 13
 • SILT SAMPLE
 DATE 28 NOV 1997
 DRAWN by JP ROSS
 SCALE 1:31,680



Δ 6483

YB60251 YB60253 YB60255
 L9467
 MILE
 YB60252 YB60254

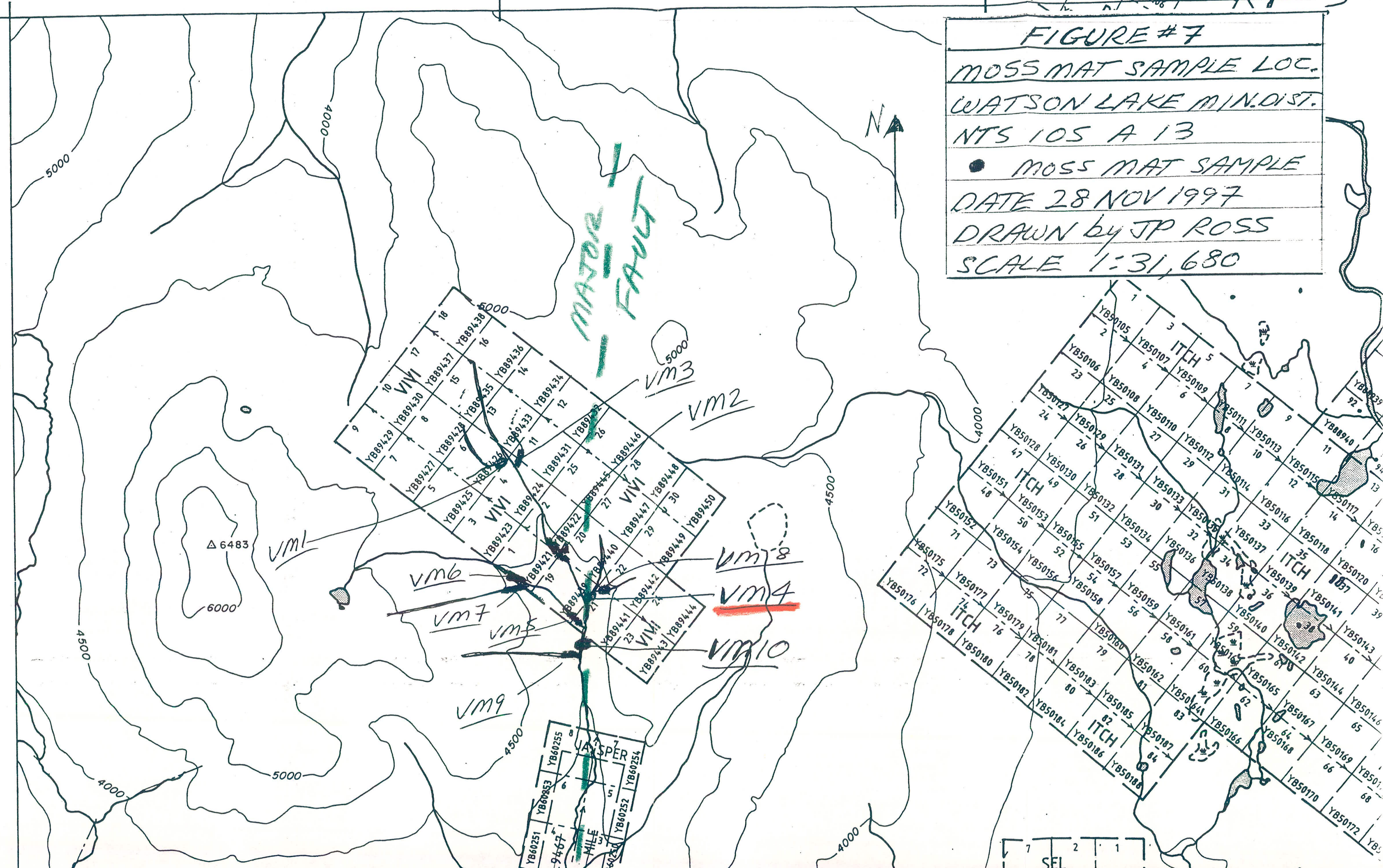
SEL

130°00'
61°00'

YB71113 YB71111 YB71110 YB71109
YB71108 YB71106
YB71145 YB71143 YB71142
RIVER

FIGURE #7
MOSS MAT SAMPLE LOC.
WATSON LAKE MIN. DIST.
NTS 105 A 13
● MOSS MAT SAMPLE
DATE 28 NOV 1997
DRAWN by JP ROSS
SCALE 1:31,680

MAJOR
FAULT



SEL 1 2 1

canadian digs

Drilling increasing antimony reserves at Beaver Brook

Roycefield Resources Ltd. (RYC:TSE) released the updated results of its diamond drill program on its Beaver Brook, Newfoundland, antimony property. The company, previously announced an increase in reserves in the property's East Zone to approximately 1,862,876 tonnes of over 3 per cent Sb using a 1.5 per cent Sb cut off. Prior drill programs had indicated Central and East Zone reserves of 1,379,908 tonnes grading 4.49 per cent antimony, with 1,220,239 tonnes grading 4.38 per cent antimony being located in the East Zone.

The company now announces that as a result of its ongoing drill program reserves for the East Zone of the property have been increased to a total of 2,112,145 tonnes grading 4.42 per cent Sb, using a 2.0 per cent Sb cut off, and 2,388,078 tonnes grading 4.08 per cent Sb using a 1.5 per cent cut off. The drill program has therefore indicated further substantial reserves.

The zone is still open on strike and at depth, and the values indicated continue to be in a strong altered zone considered a favorable host for additional deeper reserves.

Relating to start up of operations, mill construction and equipment installation at the site is now complete. Mill commissioning of crushing and other milling equipment has been in progress, and the mill is currently processing at 400 tonnes of ore grade material per day.

The first shipments to purchasers, amounting to over 100 tonnes of concentrate, have now been shipped.

Exploration drilling results from the King of Kings

Royalstar Resources Ltd. (RYQ:VSE) announced the results of the fall drilling program on the King of Kings property in Montana. Five diamond drill holes totaling 2,454 feet tested the Columbine deformation zone (CDZ), a complex fault structure, which is reported to be mineralised on the adjoining property.

The initial two holes tested the CDZ 2,500 feet southwest of the reported mineralised hole. A brecciated gneiss was intersected in hole RK 97-11. The best mineralised interval returned 0.257 opt gold, and 1.47 opt silver over 2.8 feet. Hole 12 designed to test the zone 200 feet north of 97-11, intersected an unmineralised part of the shear zone.

Holes RK 97-13, -14 and -15 tested the intersection of the interpreted CDZ with the Flathead Quartzite, 2,000 feet south west of holes 97-11 and 97-12, close to a previously drilled reverse circulation hole which ended in 20 feet of 0.091 opt gold. The deepest hole, 97-14 drilled beneath 97-13, intersected a repeated sequence of the quartzite, which was extensively brecciated, silicified and oxidized. Intercepts include 11.5 feet of 0.091 opt au from 118.5 to 130.0 feet, and 22.0 feet of 0.045 opt au from 171.0 to 193.0 feet. Silver values were not significant.

A lower interval of oxidized quartzite intersected from 262.5 to 348.0 feet contained minor amounts of gold ranging from 0.001 to 0.057 opt gold. The unoxidized pyritic quartz-

ite intersected from 433.0 to 463.0 feet ranged from 0.002 to 0.060 opt gold, the best of which returned 0.060 opt gold over 10 feet.

The company says that the area is more structurally complex than previously thought.

Lloyd Geofisica

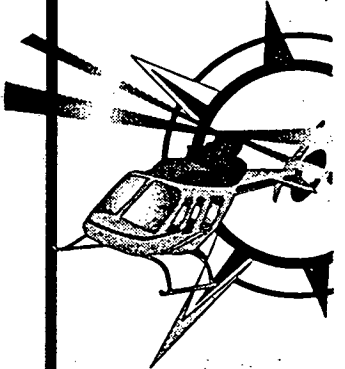
Campeche 188, Col. San Benito, Hermosillo, Sonora, Mexico
Tel: (62) 10-75-10 Tel/Fax

- Interpretation of Airborne (Magnetic, Gravity, etc.)
- Ground Magnetic and Electrical Resistivity
- Induced Polarization Survey
- Data Processing and Colour Mapping

Lloyd Geophysics

455 - 409 Granville Street
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Ph (604) 688-5813 Fax (604) 688-5814

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①
1

BEDROCK CR. PROJECT (1998 GRASS ROOTS)

The project is 50 air miles west of DAWSON CITY. It is in Dawson Mining District on Map 115 N-15. One drives on a well-maintained gravel road (TOP of the WORLD HWY), then one turns off at road to '60 mile area. After MILLER CREEK, the road is rough (2 or 4 WD?) and ends at Bedrock Creek. Roads or access past Bedrock Creek is not certain; most likely by WALKING.

RED BOUNDARY



OF PROJECT.

My target is a Cu Au Mo porphyry like the one at Casino - 100 miles west of Carmacks. A second target may be a gold rich VMS such as ATNA'S WOLVERINE LAKE.

I have discussed this area with CRAIG HART (YUKON EDA), JOHN KOWALCHUK (EN PLACER, YUK. EDA, now KENRICH/NU-LITE - VANCOUVER BC) and JIM MORTENSON (UBC PROFESSOR + MDRU group).

The area is not understood very well due to ~~red~~ rocks heavily beached (60 million years plus of no glaciation), permafrost and low levels of mapping and explor-

- ① ation compared to other areas.
- 2 Gold production has been high (placer); mining occurred before the Klondike.

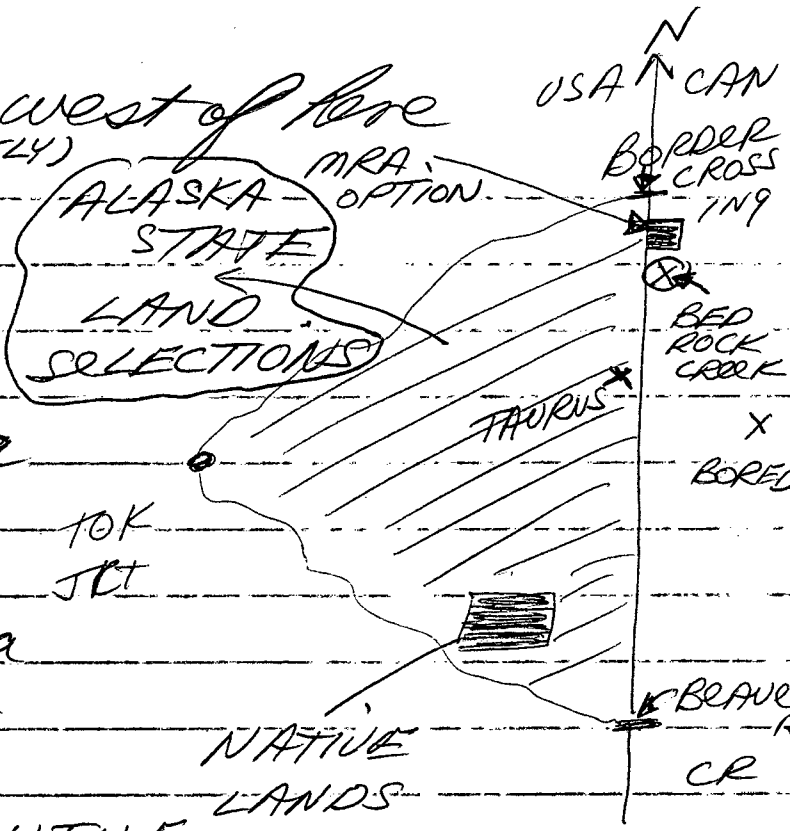
My reasons are as follows.

- ① In '95 I staked and recorded the UNI-CICI claims to the north. Madrona Mining Ltd of Calgary optioned the claims; performed a helicopter geophysical survey in '96, soil samples in '97 and at present want to continue the option. That area and my '98 project are similar.
- ② Both areas have similar magnetic anomalies from govt. geophysical surveys.
- ③ The geology is YUKON-TANANA Terrane - popular now for VMS exploration. Mostly schist here.
- ④ Road access is very close.
- ⑤ 2 interesting areas nearby - the TAURUS Cu Mo Au porphyry and the BORED Pb Zn Cu VMS? I think the location data on BORED is wrong. Jim Mortenson says epithermal veins with base metals have been seen in bedrock in 60 mile R. valley. Tom Bundtzen of Alaska persuaded the State of Alaska to select for STATE

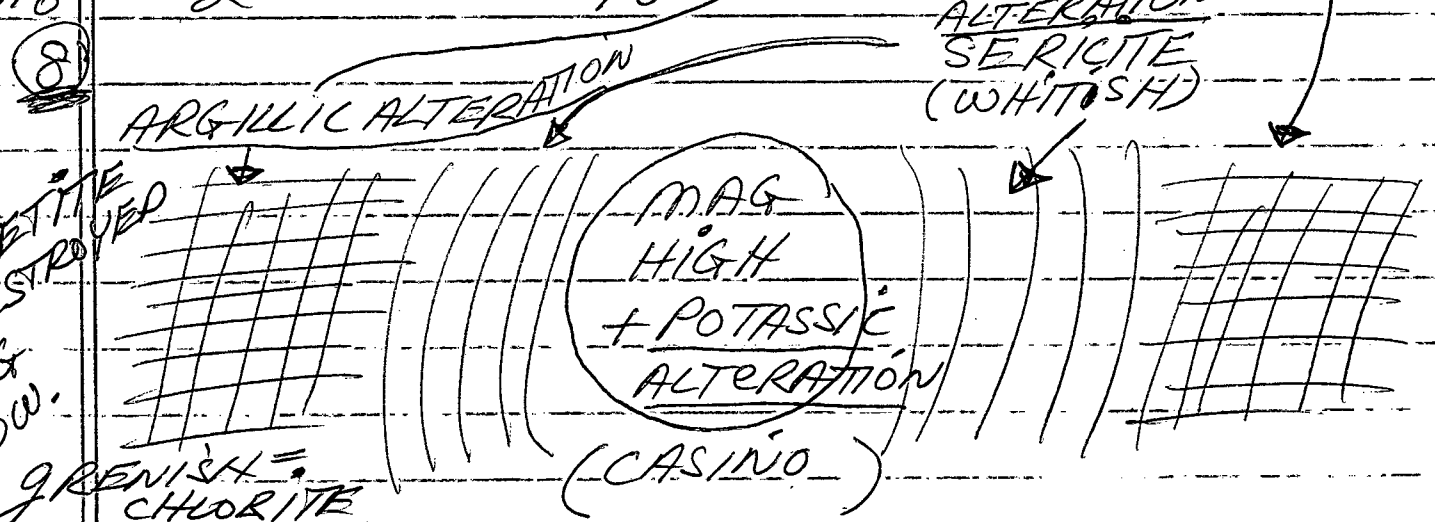
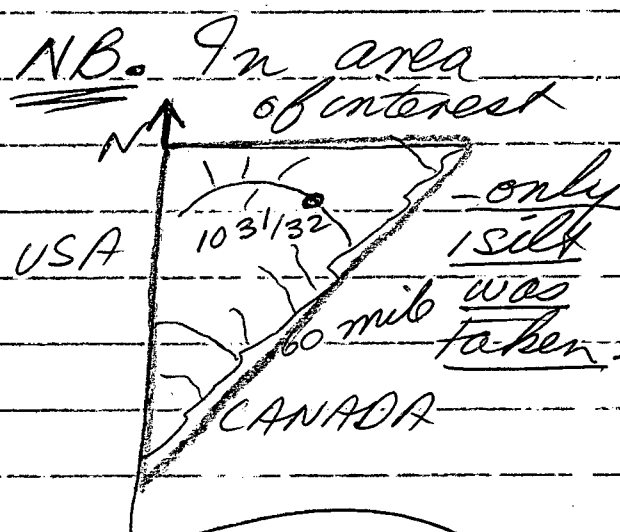
① Lands the area west of here
 3 for porphyry (MOSTLY) potential.

⑥ Interest in the area may rise if Madonna obtains more results.

⑦ Bre silt in area is significant
 # 10 31 / 32



	PPM	PERCENTILE
Cu	38	98
Zn	240	+98
Pb	10	70
Ba	1590	+95
As	59 / 8 (ppb)	+98
Hg	70	+90
Ag	10	+90
W	4	98
Sb	-	-
Ni	54	+98
Mo	2	98



* BOTH TAURUS PORPHYRY ZONES are MAG HIGHS.

① The description (last page) is of an alkali porphyry like Casino. According to John Kowalchuk a Mag High + POTASSIUM High is present on MADRONA'S geophysical data, similar to Casino.

② A large Cu Mo Au porphyry may be present at Bedrock Creek. Lack of interest in area and only 1 silt sample in the area but mag. anomaly and placer gold and 1 silt sample encourage me to do this project.

My plan is stake 60+ claims to cover the magnetic ^{HIGH} anomaly and surrounding ground.

MAG HIGH



* Edge of magnetic anomaly may be inexact - I would like to get 1 or 2 claims outside of the magnetic anomaly on all sides if possible.

Later I plan to take 40-50 silts and test them for Au (30 gm) and 30 element ICA. While doing this I will look for float + bedrock - particularly alteration. The 2 streams draining the magnetic high will get the most attention. Hopefully geochemical anomalies will be found.

① REFERENCES

5

- ① GEOPHYSICAL PAPER MAP 4269G
SIXTY MILE
MAP 116C2
- ② GEOPHYSICAL PAPER MAP 4268G
CRAIG MT.
MAP 115N15
- ③ GSC OPEN FILE # 1364
GEOCH. SILT SURVEY
NTS 115N (E 1/2) 1150
- ④ METALLOGENY OF VOLCANIC ARCS
1998 MDRU SHORT
COURSE (2 DAYS)
- ⑤ MADRONA MINING LTD
COMPANY BROCHURES
- ⑥ PERSONAL COMMUNICATION
- CRAIG HART - EDA YT
- JOHN KOWALCHOK - NU-LITE
- KENRICH
- JIM MORTENSON - UBC PROF.
- MDRU.
- TOM BUNDTZEN - ALASKAN
GEOLOGIST
- ⑦ TAURUS - CIM SPECIAL VOLUME
#46 - PORPHYRY DEPOSITS
OF NW CORDILLA p. 451-57.

①
6

BUDGET

(BEDROCK
CREEK
PROJECT)

1998 - 115 N 15

GAS (GMC 4x4)

WH → DC → BC → DC → WH

2 TIMES = 2000 MILES

$$\approx 3100 \text{ km} \times .96/\text{km} = \$1425$$

DIEM (35/day - YT Rate)

1st = 25 day 2nd = 30
trip trip

$$55 \text{ days} \times \$35/\text{day} = \$1925$$

RADIO

$$\$300/\text{month} \times 2 \text{ month} = \$150$$

X 25% (SELF OWNED)

SILT \$50 silt X \$20/silt = \$1000

ROCKS 40 rocks X \$23/rock = \$920

GEAR + MISC \$500

TOTAL \$5920



Madroña MINING LIMITED

MRA - ASE

300, 840 - 6 Avenue S.W. Calgary, AB T2P 3E5 CANADA
Tel: 001-403-205-4666 Fax: 001-403-265-3783 email: marchand@ibm.net

Poker Creek, Yukon Territory

Primary Target: Volcanogenic Massive Sulphide (Zn-Cu-Pb-Au)

Secondary target: Porphyry Copper-Gold

Location: West Central Yukon along Alaska Border
NTS: 116-C-2 Lat: 64° 03' Lat: 140° 55'
Dawson Mining Division Claim Sheet: 116C-2c

Claims: UNI, CICI and CREEK Claims. These claims are owned by prospector J. Peter Ross of Whitehorse and are under option to Madrona Mining Limited. Madrona can earn 100% subject to a 2.5% NSR

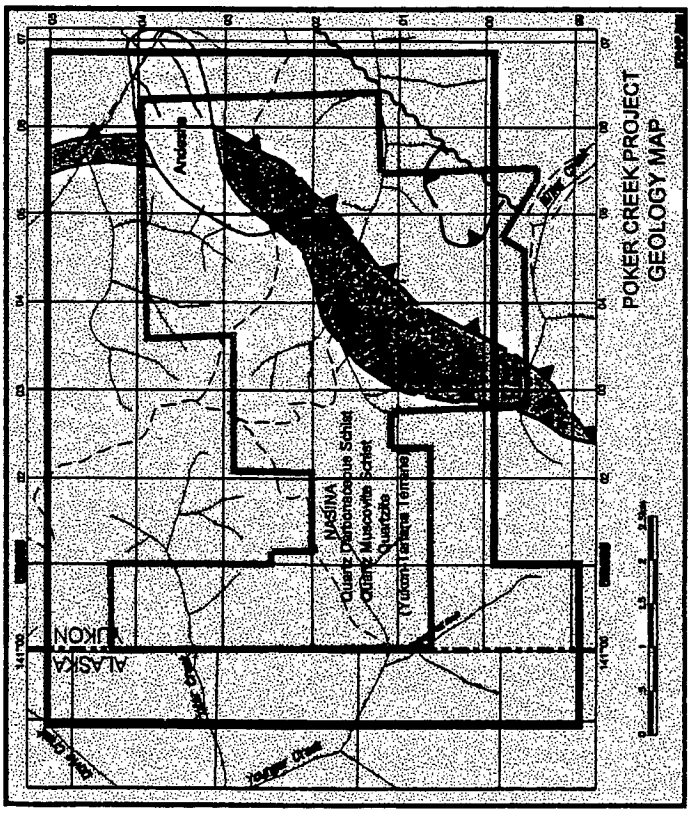
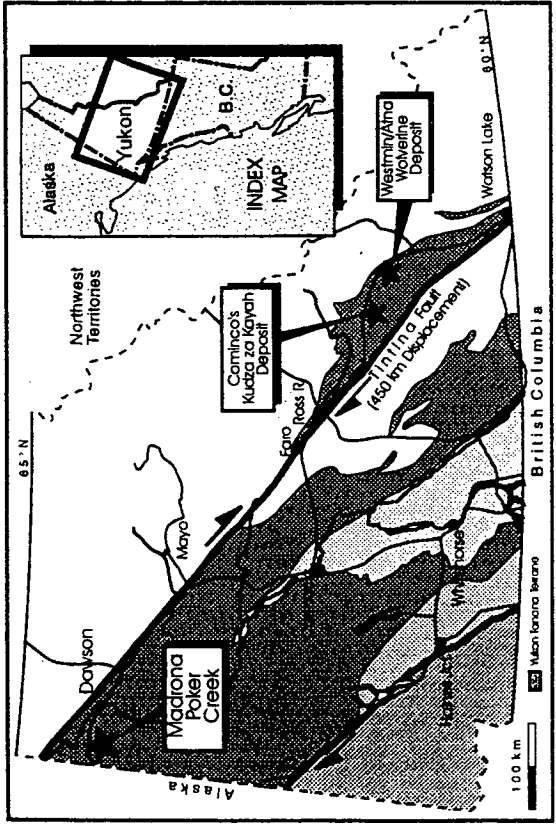
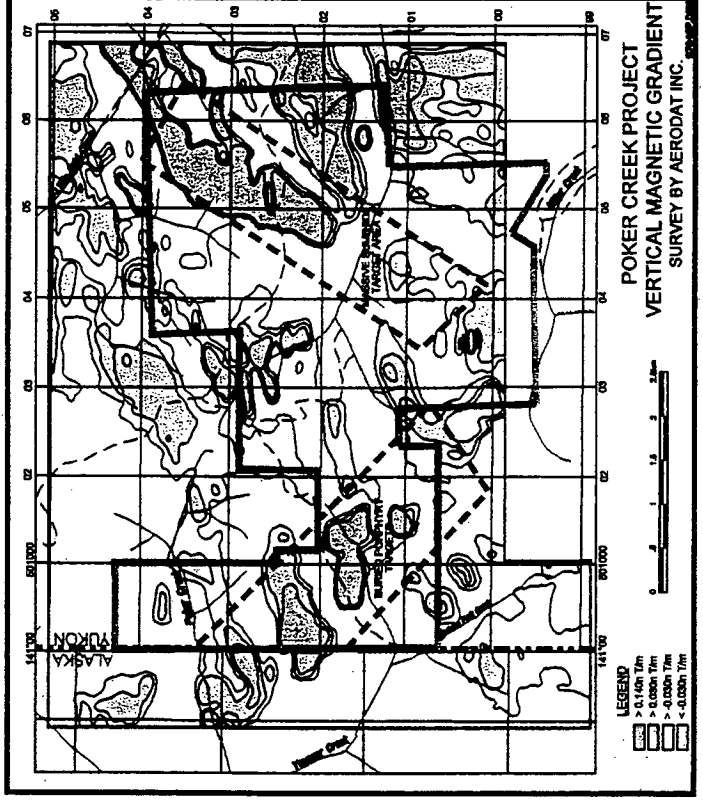
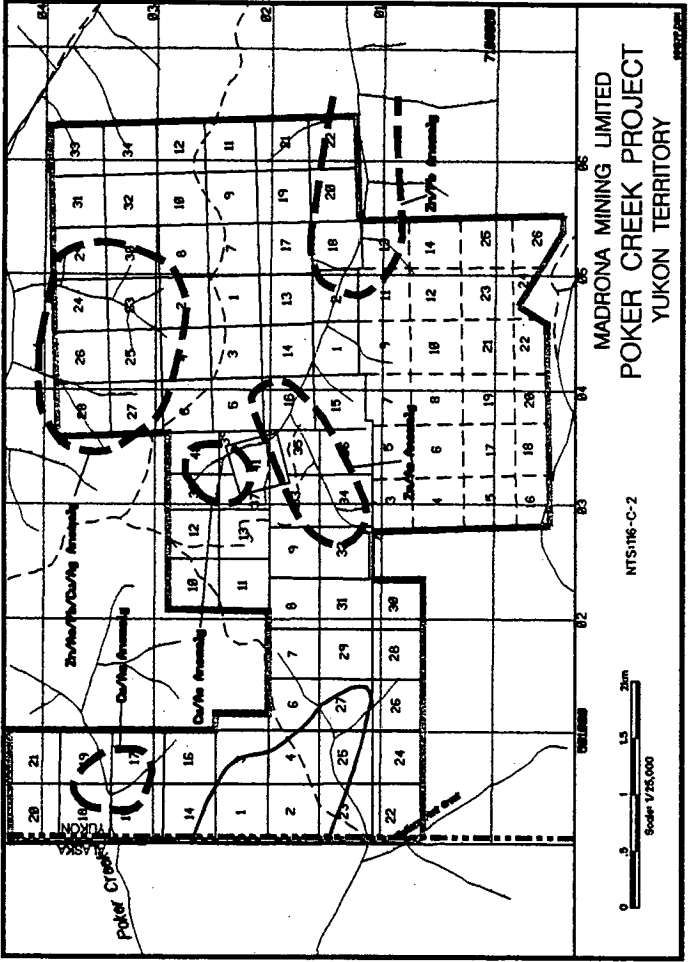
Terms: Madrona will option out a 50% interest in the claims for repayment of monies already expended on the property, a block of stock, assumption of all option payments and a work program with expenditures of \$500,000 in 1998, \$1,000,000 in each of 1999 and 2000. Madrona can operate if desired.

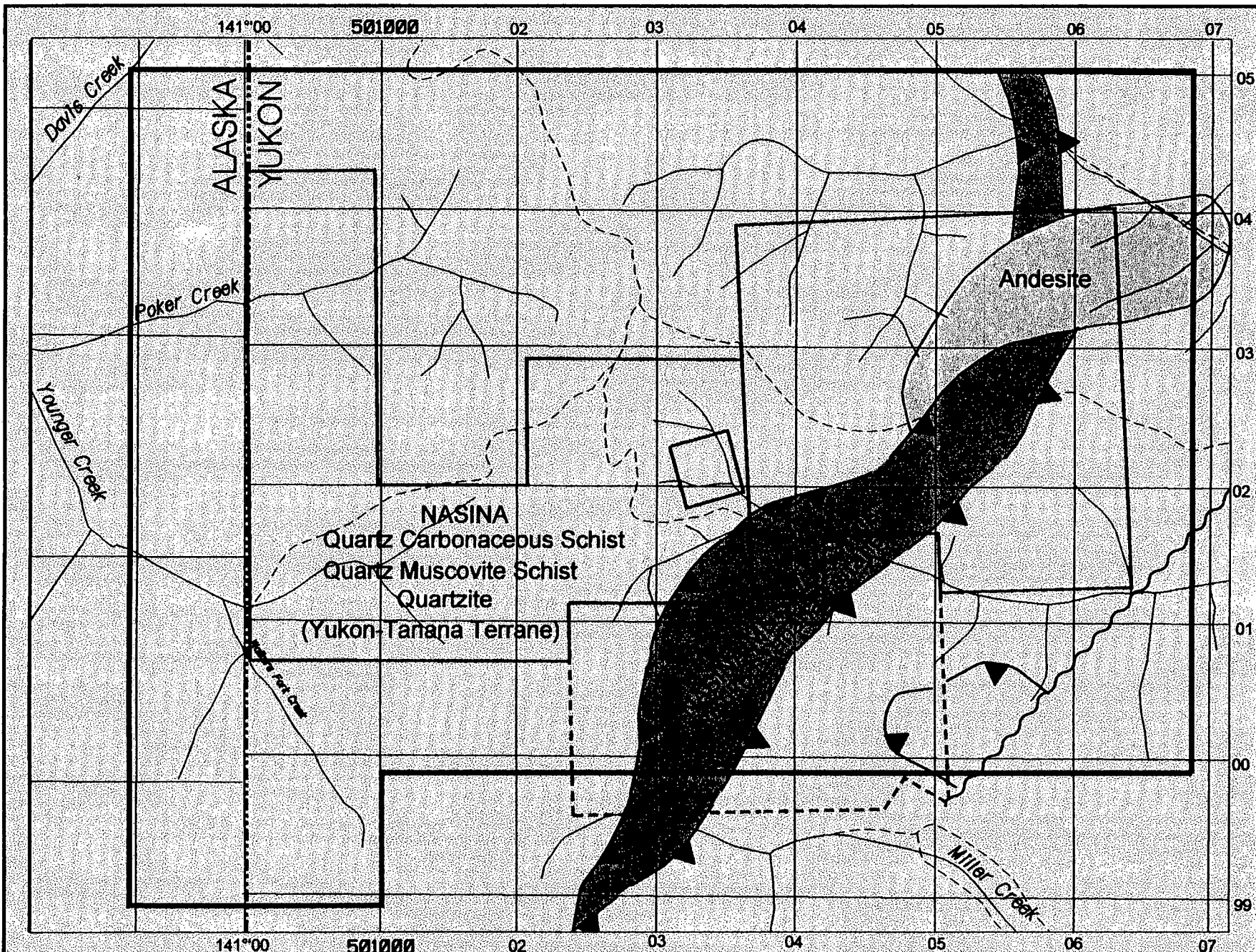
Madrona acquired the Poker Creek Prospect in 1996. The property consists of 98 mineral claims with an area of 1900 ha and lies west of Dawson city along the Alaska Border in Yukon. The property was acquired on the basis of patterns of base metal geochemical anomalies occurring downstream from magnetic high on the government magnetic map. The area lies with the Yukon-Tanana Terrane, a geologic region which contains the same suite of rock units that host Cominco's Kudza za Kayah, Columbia Gold's Kona and Atna/Westmin's Wolverine volcanogenic massive sulphide deposits in Southern Yukon. Prior to the 450 km. displacement along the Tintina Fault, the Poker Creek prospect was situated close to those deposits.

Madrona contracted for an airborne geophysical survey in the Fall of 1996 to enhance and define the magnetic feature observed on the government map and to help define the property geology. The area is heavily covered by overburden with few rock outcrops. A soil geochemical survey of 1700 samples was carried out in 1997 over portions of the property with results still pending. The results from the airborne geophysical survey show a very strong positive magnetic feature over the old government survey feature and it corresponds with a favourable rock unit (Nasina Metavolcanics) identified in recent geological mapping of the area. This indicates the potential for a base metal deposit. In other portions of the claim block, the magnetic signature suggest the possibility of buried intrusive, potential porphyry copper-gold targets.

For further information contact: Dr. Michael Marchand, VP Exploration

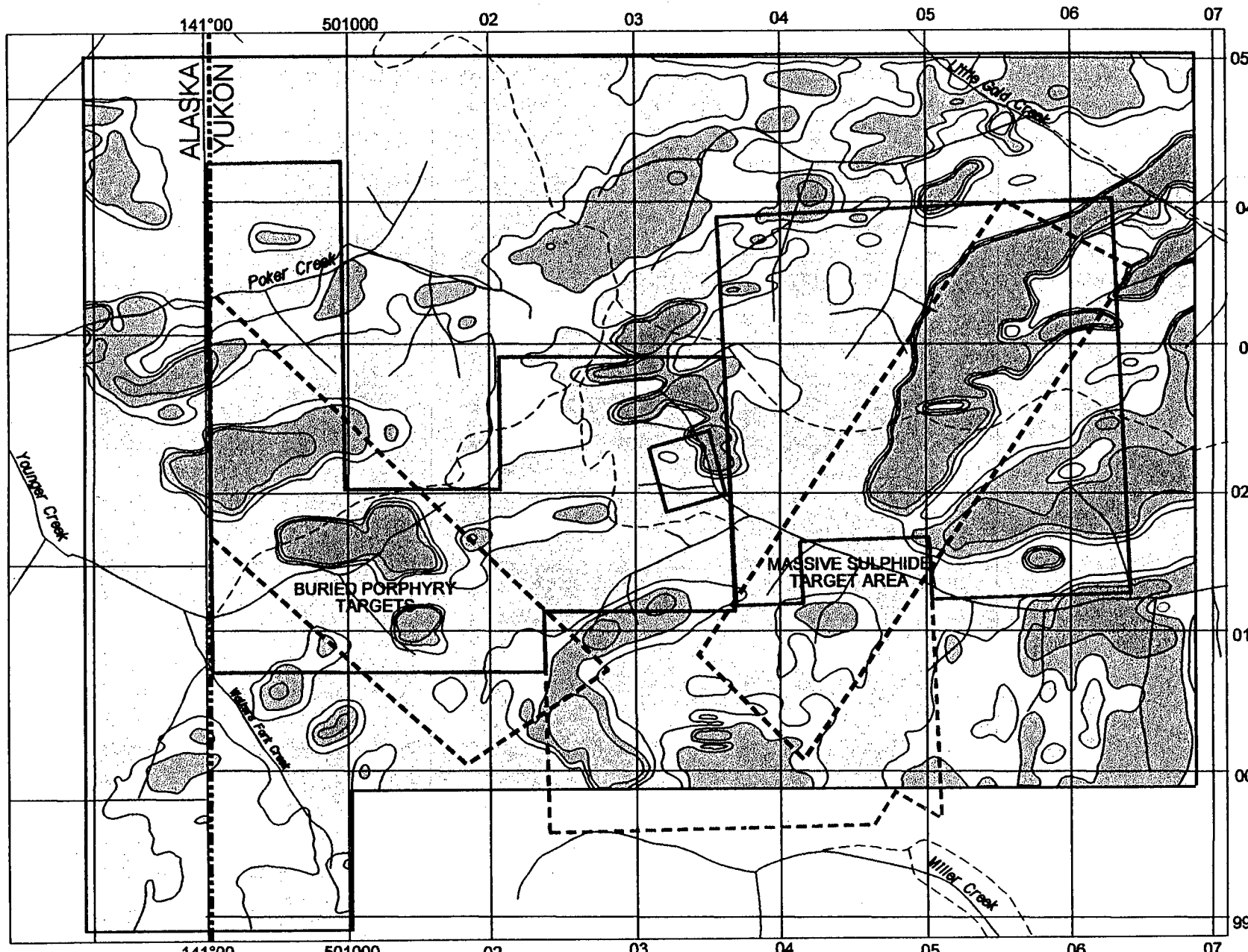
12









POKER CREEK PROJECT GEOLOGY MAP

4



LEGEND

-  > 0.140n T/m
-  > 0.030n T/m
-  > -0.030n T/m
-  < -0.030n T/m

**POKER CREEK PROJECT
VERTICAL MAGNETIC GRADIENT
SURVEY BY AERODAT INC.**

97040P.DGN

5

UNITED STATES OF AMERICA

05'

N
↑

?
2
MAGN
WIKES

64°00'

141°00'

60 MILE 55' ↑ 4269G

50'

116C2

4268G "Crag Mountain"

40'

6

MAG
HIGH

MADRONA
OPTION

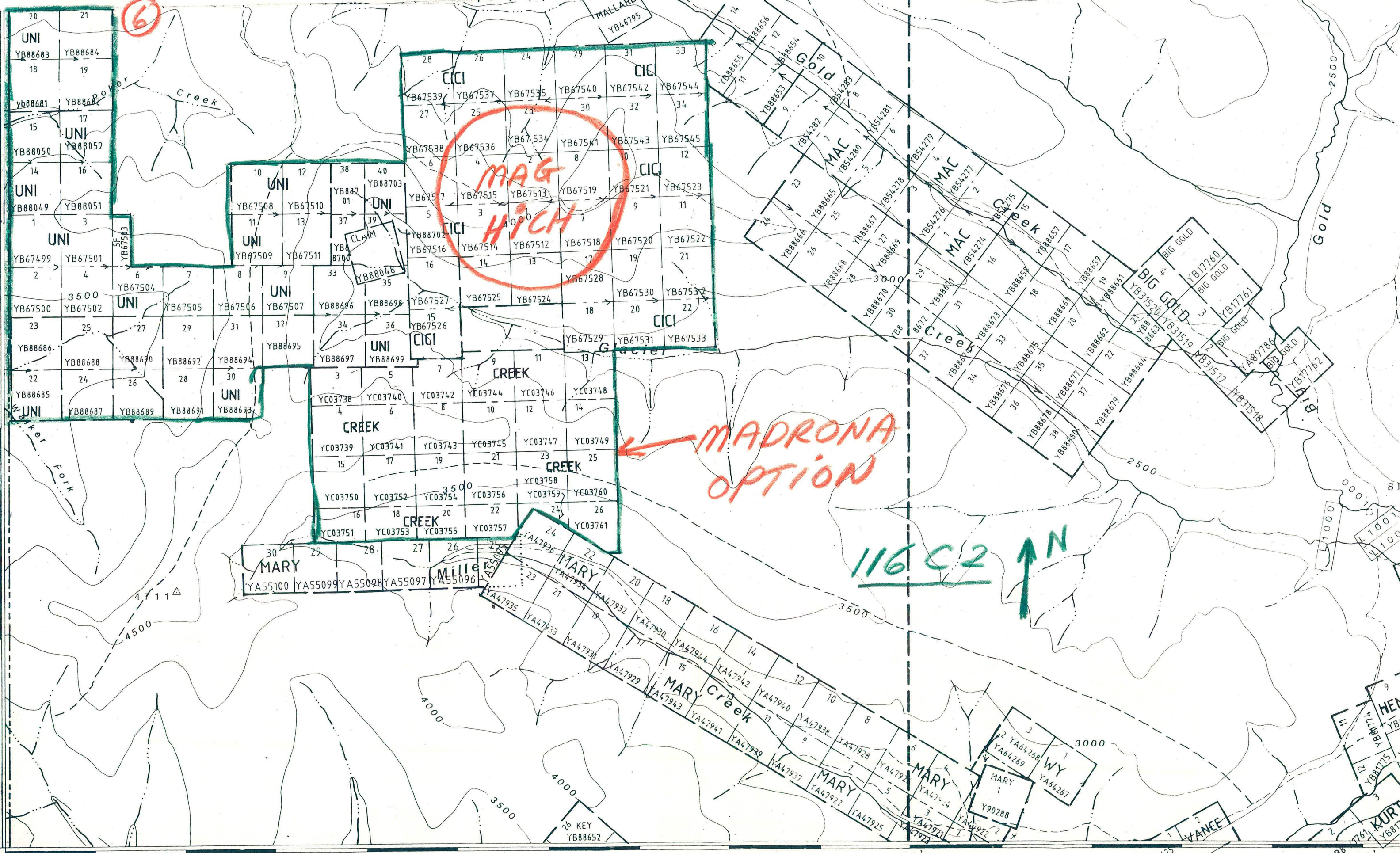
116 C2 ↑ N

41° 00'

55'

50'

116C-



7

141° 00'

115N 15 ↑ N

55'

DAWSON 28 JULY 89.

20 MAR 91
21 NOV 90
25 APR 90
04 DEC 89

115N-1

1° 00'

Bedrock

3000

Bedrock Hill

Pat

Murphy

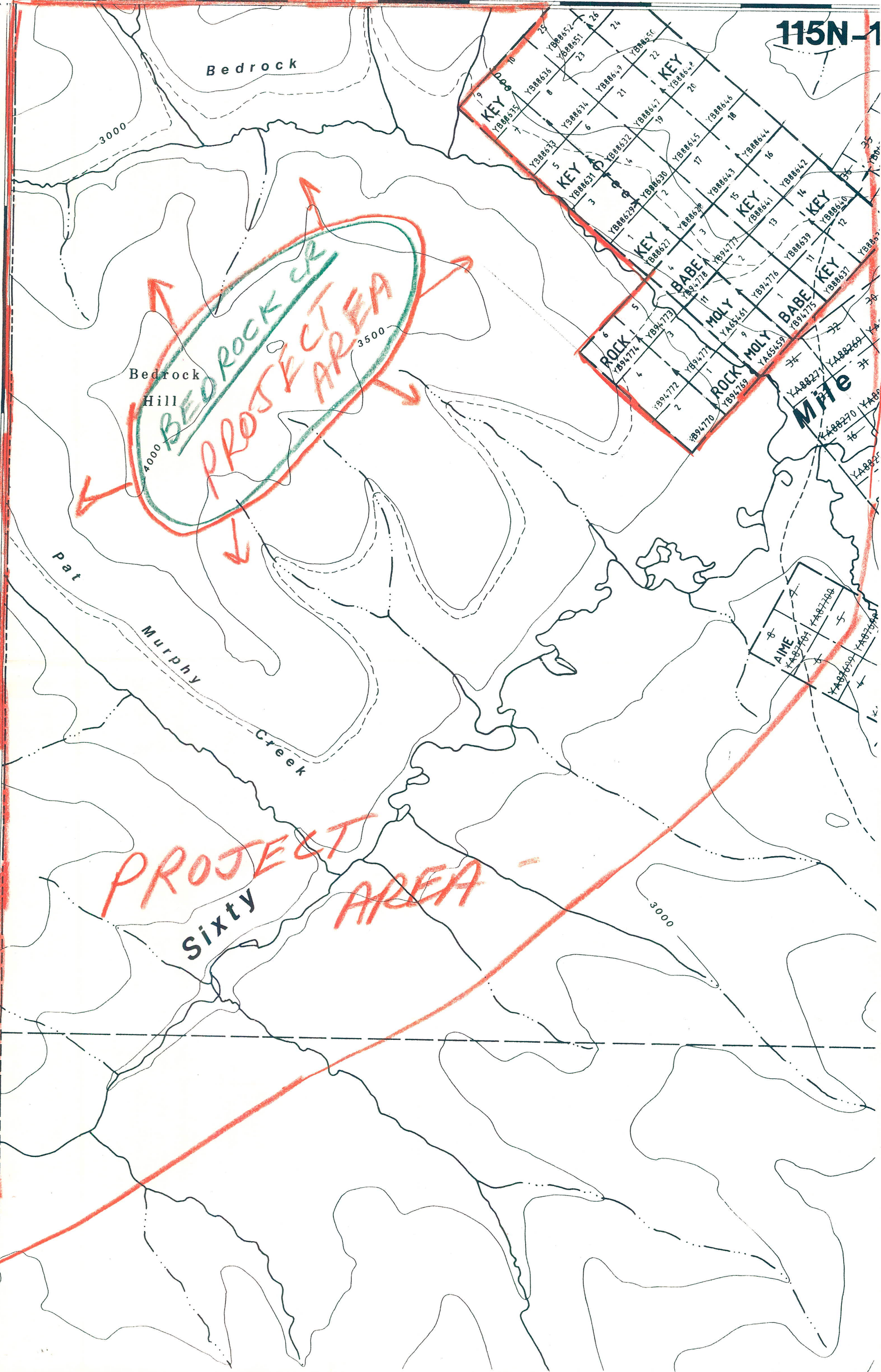
Creek

PROJECT AREA
Sixty

3000

7

55'



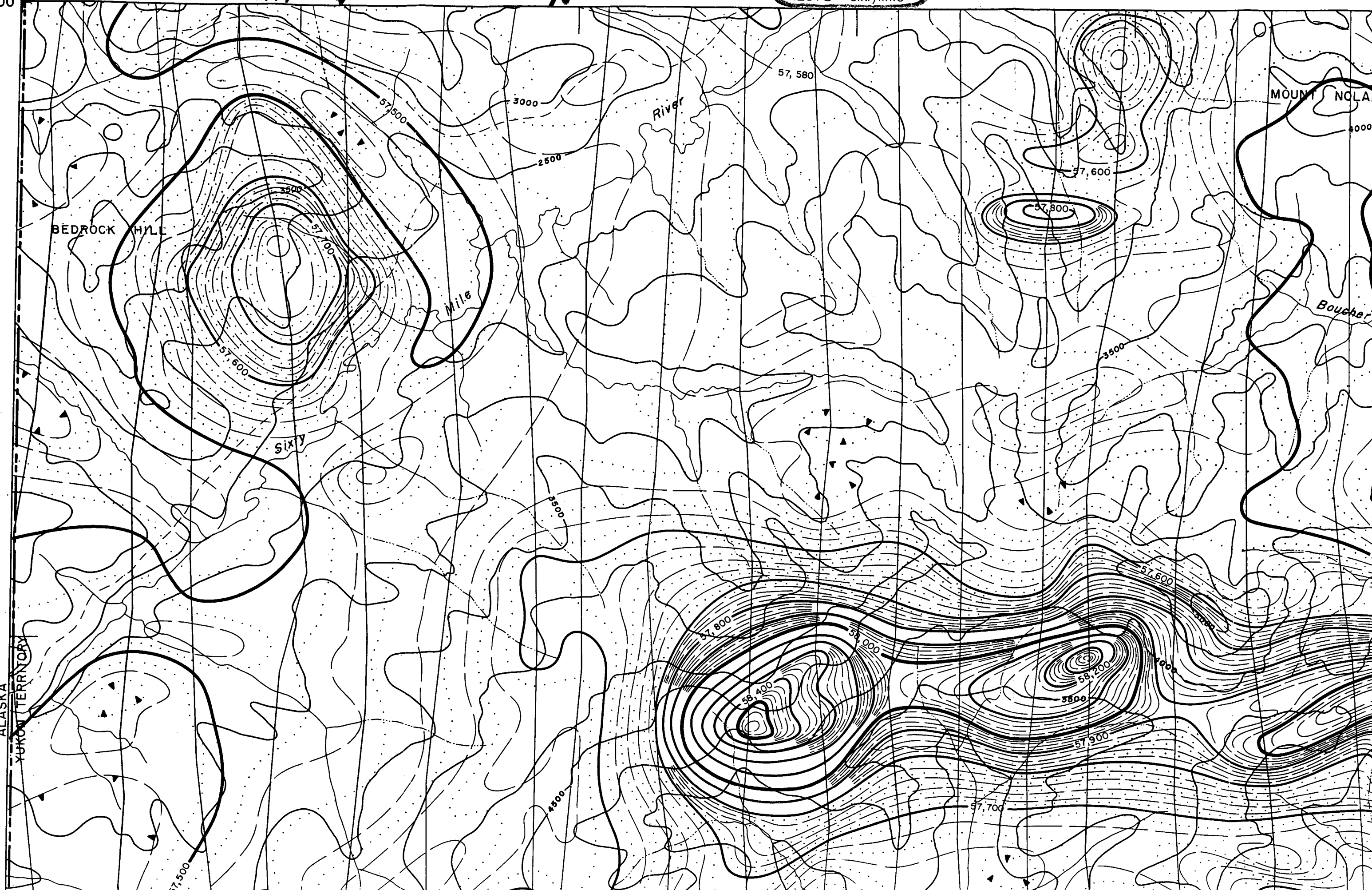
8

141°00'
64°00'

42689-CRAG^{55'} MT ↓ 115 N 15 ↑^{50'} MAG MAP.

4269G "Sixty Mile" ↑

40'



141°00' 501000m. E. 02 03 04 05 06 07 50'

115N 55' 15



MADRONA-ROSS
5KM AREA OF
INFLUENCE

APPROXIMATE
VALID HARD
ROCK CLAIMS

1031/82

GOVT. SILT SAMPLE

POSSIBLE
CAMP

BEDROCK
HILL

ROCK CR
PROJECT AREA

MAG. HIGH

MURPHY CREEK
PLACER CLAIMS

BEDROCK CR
PROJECT AREA

EA

9

64°00'
7096000m. N.
95
94
93
92
91
90
89
88
55'
87
84
83

UNITED STATES OF AMERICA
CANADA

128
3824

129
3822

130
2622

132
3457

3000

4000

2600

3300

Bedrock

LOW

3400

2600

Mile

2800

3600

96

95

94

93

92

91

90

89

88

87

86

85

84

83

3000

4000

2600

3300

Bedrock

LOW

3400

2600

Mile

2800

3600

96

95

94

93

92

91

90

89

88

87

86

85

84

83

10

N 12 NASINA GRAPHITIC QUARTZITE, SCHIST PALEOZOIC

DEPARTMENT OF ENERGY, MINES AND RESOURCES
MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES
GSC OPEN FILE #1364

SIGNIFICANT SILT ANDESITE, BASALT, BRECCIA CARMACKS GROUP

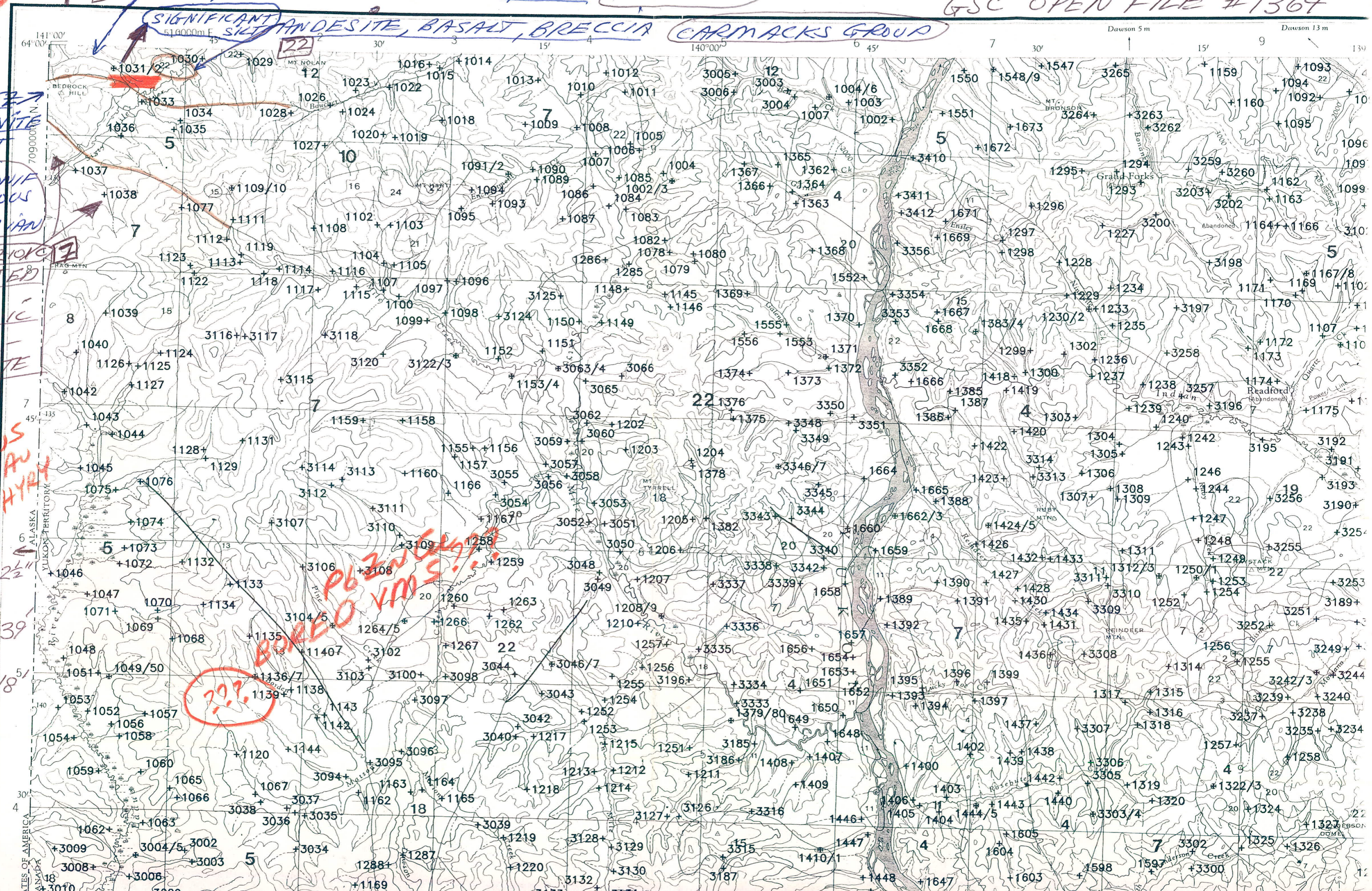
5
QUARTZ
MUSCOVITE
SCHIST
CARBONIF
EROUS
PERMIAN
PALEOZOIC
FOLIATED
TO
GNEISSIC
GRAN
DIORITE

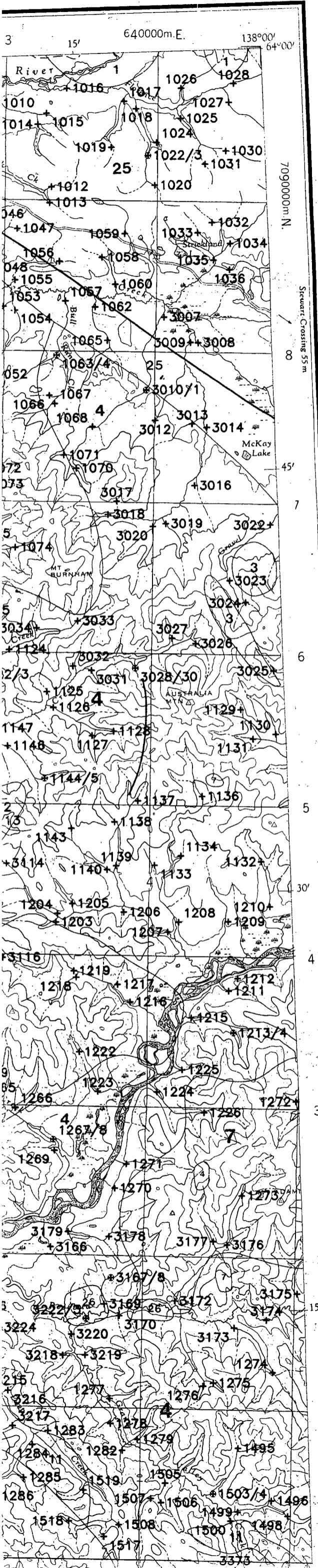
TAURUS
CUMULATIVE
PORPHYRY
* ←

LAT. 63° 39'
LONG 141° 18'

297

Pb Zn
BORO
VMS





QUATERNARY

RECENT

SELKIRK GROUP

26 RS 64* Basalt, andesite flows, breccia, tuff

PLEISTOCENE AND RECENT

25 QS 64 Glacial and surficial deposits

TERTIARY

24 TDI 57 Diorite

OLIGOCENE AND MIOCENE

23 OMA 61 AMPHITHEATRE: Sandstone, conglomerate, shale, coal
CARMACKS GROUP

22 OMCV 61 Andesite, basalt, breccia

21 OMD 61 DONJEK: Tuff, breccia

OLIGOCENE

CARMACKS GROUP

20 OCS 60 Conglomerate, sandstone, shale

LOWER TERTIARY

19 ITS 58 Conglomerate, sandstone, shale

18 TVR 58 Rhyolite, quartz feldspar porphyry

EARLY TERTIARY

ETF 57 Granite and syenite porphyry, rhyolite

CRETACEOUS

16 KY 52 Syenite, monzonite

15 QQM 52 Quartz monzonite, granodiorite; CASSIAR quartz monzonite, alaskite

TRIASSIC

14 TGDN 42 Foliated hornblende granodiorite, quartz

PALEOZOIC AND MESOZOIC UNDIVIDED

13 PMUB 40 Ultramafic rocks

PALEOZOIC UNDIVIDED

12 PN 09 NASINA: Graphitic quartzite, schist

PC 09 Limestone

10 PTV 09 Chert, volcanic rocks, slate

9 PV 09 Greenstone, amphibolite

8 PQMN 09 Foliated muscovite quartz monzonite

7 PGDN 09 PELLY GNEISS: Foliated to gneissic granodiorite

PERMIAN

SKOLAI GROUP

6 PS 36 Andesite, basalt, ultramafics, pyroclastics, phyllite, chert, limestone, conglomerate

CARBONIFEROUS AND PERMIAN

5 CPS 35 Quartz - muscovite schist

4 CPSM 35 Schist, gneiss, includes BIG SALMON METAMORPHIC COMPLEX

3 CPUB 35 Serpentinite, diorite, pyroxenite, peridotite

DEVONIAN

2 DC 25 Limestone, marble

ORDOVICIAN, SILURIAN AND LOWER DEVONIAN

1 OSDR 19 ROAD RIVER: Black graptolitic shale, chert

GSC OPEN FILE
#1364 (115N(E 1/2)
1150

REGIONAL STREAM SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA, YUKON 1986, GSC-OF 1364, NGR 100-1986, NTS 115N(E1/2), 115O

MAP	ID	ROCK TYPE	A G RP E ST	ZN	CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	LOI	U	F	V	CD	SB	W	BA	SN	AU	AU-R	AU WT1	L 1	AU WT2	L 2
115N 861002	PGDN	09 10	71	13	5	13	9	0.2	170	2	<2	1.85	35	5.2	4.8	320	32	<0.2	0.2	2	830	7	2	10.0	1				
115N 861003	PGDN	09 20	65	12	6	14	9	<0.2	160	1	<2	1.70	25	5.2	5.1	260	32	<0.2	0.6	2	880	10	<1	10.0	1				
115N 861004	PGDN	09 00	70	15	8	15	10	<0.2	260	2	<2	1.90	45	6.0	4.3	320	33	<0.2	0.6	2	910	3	2	10.0	1				
115N 861005	OMCV	61 00	89	23	9	23	12	<0.2	1600	4	<2	3.23	45	12.4	4.9	260	52	<0.2	0.5	2	950	2	3	10.0	1				
115N 861006	OMCV	61 00	92	31	10	27	11	<0.2	720	3	<2	2.98	55	14.6	4.1	245	53	<0.2	0.6	2	930	1	5	10.0	1				
115N 861007	PGDN	09 00	70	16	6	10	10	<0.2	250	2	<2	1.88	35	5.6	3.2	200	37	<0.2	0.5	2	790	1	1	10.0	1				
115N 861008	PGDN	09 00	86	21	8	23	12	<0.2	440	3	<2	2.69	55	9.8	3.1	195	49	<0.2	0.4	2	1030	1	3	10.0	1				
115N 861009	PGDN	09 00	78	22	9	21	11	<0.2	225	3	<2	2.32	80	9.4	3.2	245	43	0.2	0.8	2	970	1	6	10.0	1				
115N 861010	PGDN	09 00	76	17	6	30	9	0.2	235	2	<2	2.02	30	4.0	2.6	250	35	<0.2	0.4	2	1010	1	<1	10.0	1				
115N 861011	OMCV	61 00	85	21	7	17	11	0.2	330	2	<2	3.05	55	12.0	2.9	280	46	<0.2	<0.2	2	900	3	<1	10.0	1				
115N 861012	PGDN	09 00	64	18	5	41	9	<0.2	200	1	<2	1.84	35	7.0	2.8	300	33	<0.2	<0.2	2	840	2	2	10.0	1				
115N 861013	PGDN	09 00	68	13	6	15	8	<0.2	152	2	<2	1.80	35	5.4	3.1	270	35	<0.2	0.5	2	740	2	<1	10.0	1				
115N 861014	PGDN	09 00	93	15	12	17	11	<0.2	500	5	<2	2.61	45	6.6	3.3	300	46	<0.2	1.0	2	970	1	4	10.0	1				
115N 861015	PGDN	09 00	77	15	8	15	9	0.2	400	3	<2	1.96	45	4.4	4.6	260	34	<0.2	0.7	2	900	2	1	10.0	1				
115N 861016	PN	09 00	102	19	19	15	10	<0.2	300	8	<2	2.44	35	5.6	3.3	335	37	0.2	1.0	2	880	2	<1	10.0	1				
115N 861018	PGDN	09 00	68	13	8	14	9	<0.2	350	3	<2	2.00	40	4.6	4.5	340	32	<0.2	0.5	2	885	1	5	10.0	1				
115N 861019	PTV	09 00	72	13	12	12	11	<0.2	460	3	<2	2.33	35	6.6	4.1	360	49	0.2	0.5	2	820	2	11	7	10.0	1	10.0	1	
115N 861020	PTV	09 00	77	24	23	14	10	0.2	260	4	<2	2.57	45	8.8	3.8	270	46	0.5	0.5	2	810	2	1	10.0	1				
115N 861022	PTV	09 00	84	17	11	12	9	<0.2	340	4	<2	2.46	55	6.0	2.7	360	42	<0.2	0.5	2	850	<1	<1	10.0	1				
115N 861023	PN	09 00	85	22	12	24	10	<0.2	300	4	<2	2.43	35	7.6	3.0	450	36	<0.2	0.5	2	720	<1	6	10.0	1				
115N 861024	PTV	09 00	83	21	21	13	6	<0.2	270	6	2	2.36	45	7.4	4.6	320	40	<0.2	<0.2	4	920	1	2	10.0	1				
115N 861026	PN	09 00	144	20	27	25	12	<0.2	300	9	<2	2.50	25	4.6	3.7	310	37	<0.2	1.2	2	790	1	1	10.0	1				
115N 861027	PTV	09 00	87	21	35	12	5	<0.2	350	11	6	2.07	45	7.4	10.2	400	38	<0.2	<0.2	2	970	2	2	10.0	1				
115N 861028	CPS	35 00	370	25	52	32	9	<0.2	830	15	<2	2.09	25	4.4	5.1	420	27	1.7	0.6	2	1050	1	2	10.0	1				
115N 861029	OMCV	61 00	67	19	7	29	11	<0.2	220	2	<2	2.13	25	5.6	3.1	360	37	<0.2	<0.2	2	668	2	6	10.0	1				
115N 861030	PN	09 00	91	17	15	25	9	<0.2	230	3	<2	2.62	390	5.4	2.7	500	38	<0.2	<0.2	2	780	<1	<1	10.0	1				
115N 861031	PN	09 10	210	38	10	54	13	0.2	780	10	2	2.88	70	4.8	3.4	320	33	0.9	<0.2	4	1590	2	59	8	10.0	1	2.50	4	
115N 861032	PN	09 20	212	38	10	53	13	0.6	790	9	<2	3.00	45	5.2	3.5	460	34	0.8	0.9	2	1640	1	2	1	10.0	1	2.50	4	
115N 861033	CPS	35 00	107	20	52	14	6	0.4	172	15	<2	1.90	25	5.4	9.3	420	27	<0.2	0.8	24	900	<1	15	15	10.0	1	5.00	2	
115N 861034	CPS	35 00	185	26	44	22	7	0.3	720	8	<2	2.05	45	6.2	8.2	320	28	0.5	0.2	2	1130	<1	4	10.0	1				
115N 861035	CPS	35 00	139	29	106	9	6	0.5	435	19	<2	1.88	35	5.3	7.5	480	19	0.8	1.1	12	865	2	<1	10.0	1				
115N 861036	CPS	35 00	40	4	35	4	5	<0.2	128	12	<2	0.81	25	5.6	5.5	440	10	<0.2	0.4	2	966	2	4	10.0	1				
115N 861037	PGDN	09 00	440	9	11	11	7	<0.2	235	2	<2	1.73	25	6.8	10.8	660	24	<0.2	<0.2	8	942	<1	<1	10.0	1				
115N 861038	PGDN	09 00	81	10	8	14	9	0.2	430	2	<2	2.04	205	4.2	18.2	440	30	0.3	0.3	2	1030	1	<1	10.0	1				
115N 861039	PGDN	09 00	102	15	21	14	5	0.2	460	2	<2	2.03	45	12.0	54.0	410	26	0.4	0.4	2	648	<1	4	10.0	1				
115N 861040	PQMN	09 00	149	12	14	13	11	0.2	510	2	<2	2.56	45	12.4	20.1	520	35	<0.2	0.3	2	648	1	4	10.0	1				
115N 861042	PQMN	09 00	59	8	8	9	6	0.3	290	2	<2	1.60	25	5.0	15.6	500	21	0.2	0.3	2	559	<1	<1	10.0	1				
115N 861043	CPS	35 00	71	8	31	11	6	<0.2	140	2	<2	1.46	60	4.2	7.1	460	23	<0.2	4.4	2	595	<1	<1	10.0	1				
115N 861044	PGDN	09 00	79	10	12	14	10	<0.2	520	2	<2	1.98	30	8.0	11.3	280	29	<0.2	3.3	2	808	1	<1	10.0	1				
115N 861045	CPS	35 00	77	10	26	9	6	0.2	210	2	<2	1.46	35	4.0	4.1	290	25	<0.2	0.3	2	626	2	<1	10.0	1				
115N 861046	CPS	35 00	67	17	10	16	7	<0.2	126	1	<2	1.78	45	8.2	3.2	420	38	<0.2	<0.2	2	735	1	<1	10.0	1				
115N 861047	CPS	35 00	65	12	11	15	9	<0.2	168	2	<2	1.58	45	4.8	5.6	300	27	<0.2	0.2	2	792	4	19	2	10.0	1	10.0	1	
115N 861048	CPS	35 00	83	22	11	17	11	<0.2	470	2	<2	2.19	45	13.6	2.2	280	34	<0.2	0.3	2	798	2	6	10.0	1				
115N 861049	CPS	35 10	55	16	8	18	9	<0.2	280	2	<2	1.99	35	5.4	3.4	390	28	<0.2	0.3	2	788	2	<1	10.0	1				
115N 861050	CPS	35 20	55	17	10	15	8	0.3	270	12	<2	1.99	35	5.8	3.2	380	29	<0.2	0.4	2	836	1	3	10.0	1				
115N 861051	CPS	35 00	65	16	9	16	12	<0.2	1280	2	<2	6.51	45	15.3	2.2	290	51	0.2	0.5	2	820	1	1	10.0	1				
115N 861052	CPS	35 00	79	21	12	19	9	<0.2	380	2	<2	2.30	35	6.6	3.8	380	35	<0.2	0.4	2	913	2	3	10.0	1				
115N 861053	CPS	35 00	96	12	9	15	7	0.2	390	2	<2	1.72	35	5.6	2.7	280	31	0.2	0.3	2	687	2	<1	10.0	1				
115N 861054	CPS	35 00	63	12	9	14	6	<0.2	280	4	<2	1.55	25	6.0	2.3	240	25	<0.2	0.9	2	804	1	3	10.0	1				
115N 861056	CPS	35 00	58	16	12	13	5	0.4	260	3	<2	1.55	35	4.8	4.9	220	25	<0.2	0.2	2	703	1	<1	10.0	1				

13

MINFILE: 115N 100
PAGE NO: 1 of 2
UPDATED: 10/17/94

**YUKON MINFILE
STANDARD REPORT
EXPLORATION AND GEOLOGICAL SERVICES DIVISION, DIAND
WHITEHORSE**

NAME(S): Bored
MINFILE #: 115N 100
MAJOR COMMODITIES: -
MINOR COMMODITIES: -
TECTONIC ELEMENT: Yukon Tanana Terrane

NTS MAP SHEET: 115 N 10
LATITUDE: 63°31'22"N
LONGITUDE: 140°26'23"W
DEPOSIT TYPE: Unknown
STATUS: Anomaly

*THESE
COORDINATES
ARE WRONG!*

CLAIMS (PREVIOUS AND CURRENT)

BORD, BOR, SHE, LODE

WORK HISTORY

Staked as BORD cl (YA10591) in Sep/77 by Moose Creek ECL (Inco & Kennco), which explored with mapping and geochem sampling in 1977 and 1978. An affiliated company, Ocean Home EC, tied on Lad and Mat cl (YA31090) in Jun/78 and explored with geochem and Turam EM surveys in 1978 and 1979.

In Jun/90, the property was restaked as the Bor claims (YB30561) by Archer, Cathro & Associates (1981) Ltd and sold to YGC Resources Ltd, which performed line cutting, grid soil sampling and prospecting. In Jun/91, YGC added more Bor cl (YB48005) to extend the west boundary of the claim block, and performed additional soil sampling over the new claims. The property was extended to the east with more Bor cl (YB40858) in Jun/92. Kennecott Canada Inc. optioned the property in 1992 and explored with soil sampling, geophysics, and 796.1 m of diamond drilling in 5 holes, before dropping its option.

A. and S. Savage tied on 32 She (YB41198) and 113 Lode cl (YB41134) to the east and south in Jul/92, and conducted a trenching program on the Lode claims in Jul/93.

GEOLOGY

The claims were staked on a lead-zinc geochemical anomaly underlain by metasedimentary and metavolcanic rocks assigned to the Klondike Schist (Permian). A limonite gossan and disseminated pyrite occur in quartz-muscovite-sericite schist which is interpreted as a metamorphosed rhyolite. No mineralization was found.

YGC outlined a 7 km long lead-zinc-copper soil anomaly which parallels compositional layering in the schist. Boxwork-textured schist float was found containing oxidized disseminated sulphides. Kennecott's 1992 drilling intersected low grade sulphide mineralization.

REFERENCES

GEORGE CROSS NEWSLETTER, 8 Jun/92; 5 Aug/92; 23 Dec/92.

MINERAL INDUSTRY REPORT 1978, p. 27

YGC RESOURCES LTD, 1990. Assessment Report #092953 by K. Sax and R.C. Carne.

YGC RESOURCES LTD, 1991. Assessment Report #093000 by R.C. Carne.

YGC RESOURCES LTD, 1993. Assessment Report #093099 by R.C. Carne.

19

MINFILE: 115N 100
PAGE NO: 2 of 2
UPDATED: 10/17/94

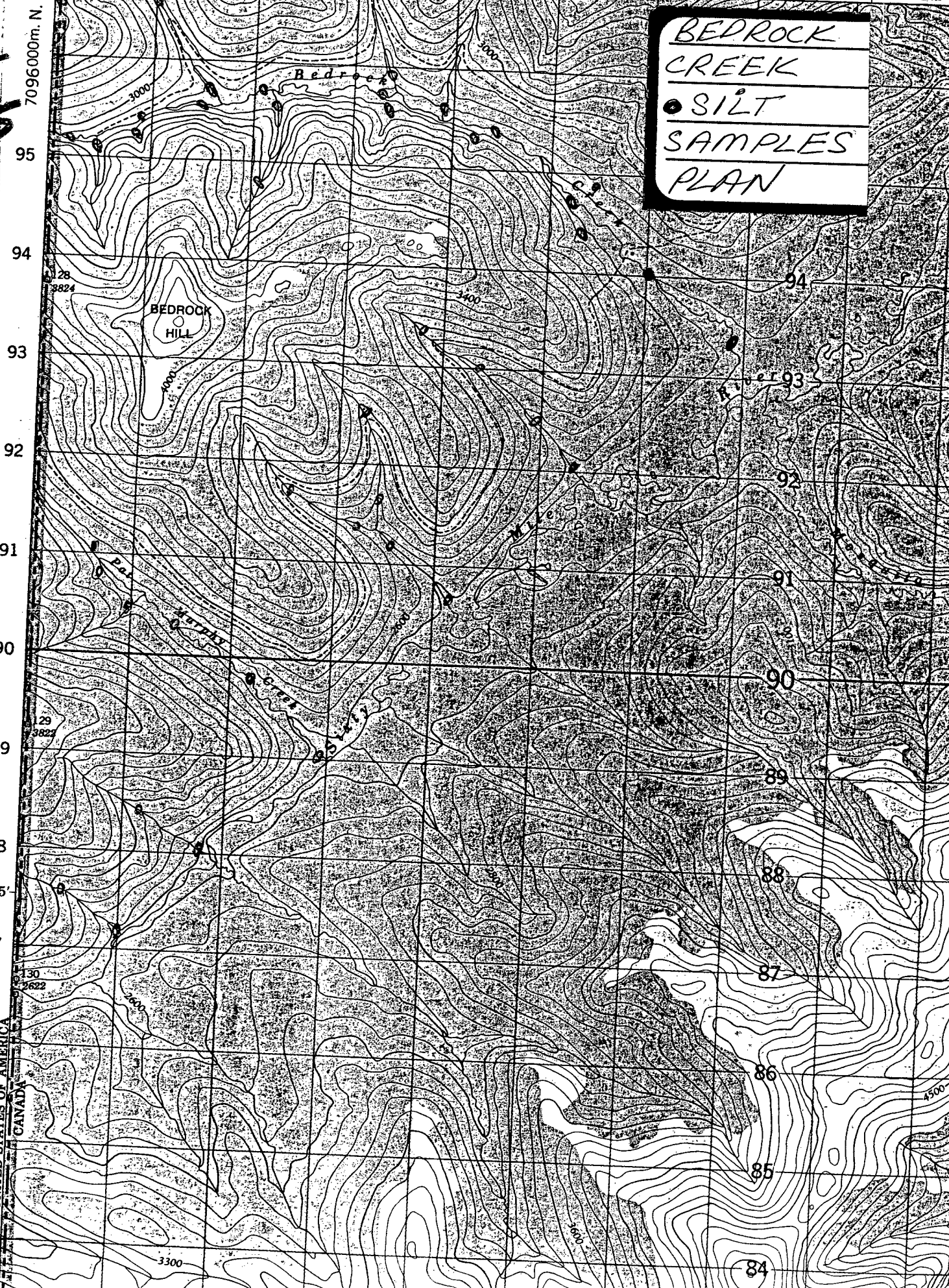
REFERENCES (CONTINUED)

YUKON EXPLORATION AND GEOLOGY 1992, p. 3, 5.

YUKON GEOLOGY AND EXPLORATION 1979-80, p. 271.

15
115
N15
N
↑

141°00' 501000m. E. 02 03 55' 05 06 07 50'



BEDROCK
CREEK
● SILT
SAMPLES
PLAN

UNITED STATES OF AMERICA
CANADA

84

84

② RAINBOW CREEK PROJECT (1998)
GRASS
ROOTS

The project is about 120 miles east of MAYO. It is in the MAYO MINING DISTRICT on map 105N-12. Access is by well maintained highway (all seasons) to Mayo. Then one goes by helicopter, a 1.6 hour flight according to Charlie Roots.

My target is a VMS ZNPbCu (AuAg) similar to NOU's MARG VMS deposit. The boundary of my project is. ○

I have discussed this project with Charlie Roots (YUKON-EDA geologist) and John Kowalchuk (KENRICH-NU-LITE MIN. of VANCOUVER BC)

My reasons are as follows.

① Article by Charlie Roots 1996 suggests potential for massive sulphides in area.

Marg VMS sits on same side of Robert Service Thrust. The Earn Group here is PYRITIC and locally BARITIC - potential here for VMS or SEDEX. The TOM + JASON (SEDEX at McMillan Pass) and MARG (VMS) occur in this unit. The area is remote and has dense forests and one must camp far from areas of interest due to steep terrain (i.e.

② no nearby helicopter landings). The red alteration intrigues me - from VMS?? or ?? or ?? / silt below areas of interest # 3351 is anomalous and silt above is not. # 3349. Charlie Root, the area to me.

② Below area ^{Recommends} Above area

	# 3351	PERCENTILE	# 3349	PERCENT.
Zn	245	+70%	138	+50
Cu	78	+90	26	—
Pb	46	+95	12	—
Ni	56	+70	23	—
Co	13	70	5	—
Ag	.7	+70	.4	70
Hg	391	+90	171	+50
Mo	12	+12	2	50
As	720	MAX	8.7	—
Ba	5200	+90	2700	+70
Sb	11	+95	1.2	—
Au	9 PPB	+70	3	—
Fe	5.09	+95	2.80	—

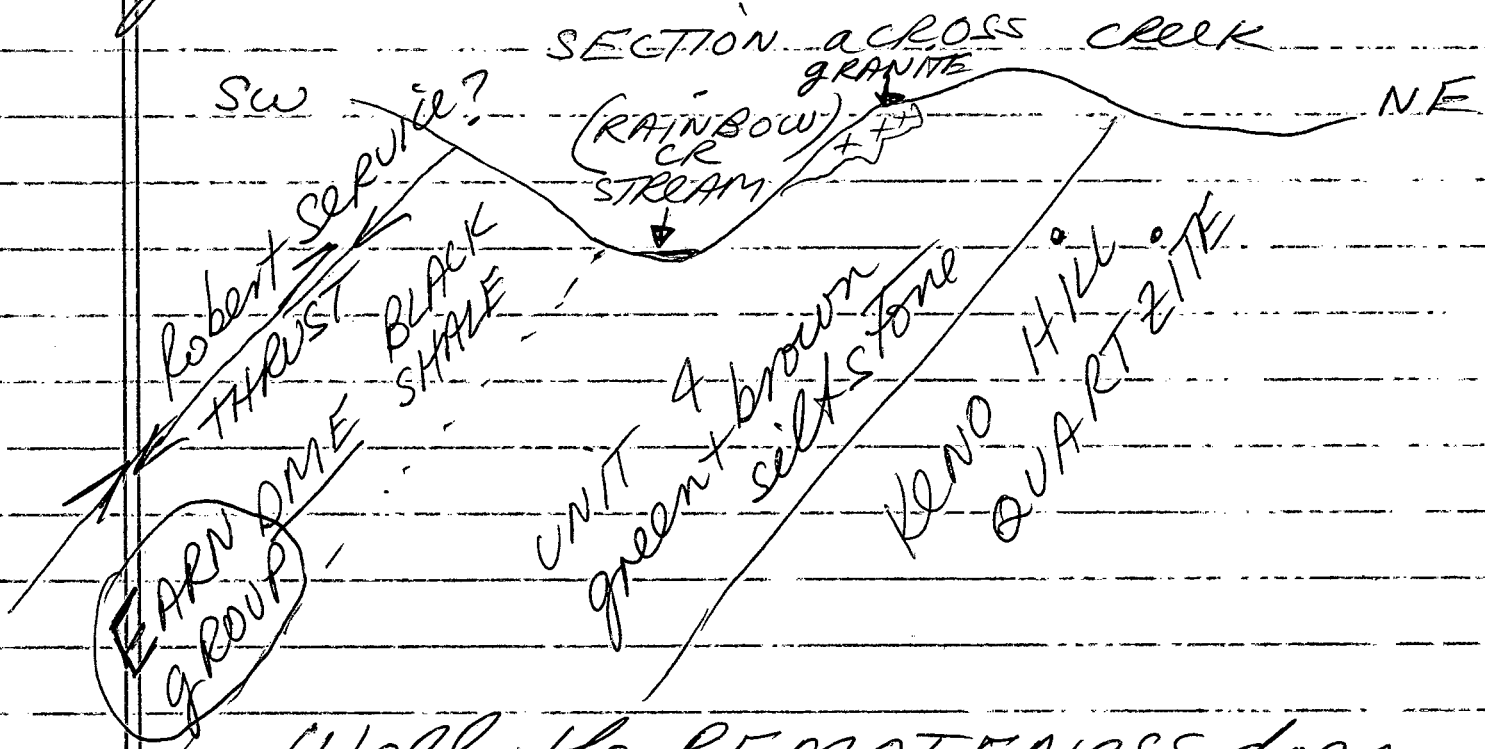
3351 is anomalous for Zn, Cu, Pb, Ni, Co, Ag, Hg, Mo, As, Ba, Sb, Au, Fe + elevated: RARE EARTHS. (at 70%)

3349 is anomalous: Ag, Ba (at 70%)
The area according to C. Root is covered in glacial till.

3351 is 1 1/2 - 2 km out into a valley covered in till. * Where sample was taken, the stream

(acc. to OPEN FILE)

- ② bottom is red brown. John Kowalchuk
- 3 tell me many VMS + siderite form gossans in S. Frearm (the map does)



Well, the REMOTENESS does bother me somewhat! Charlie Root says the anomaly is caused by a high EARN GROUP background geochemistry.

- or B SKARN related to GRANITE, but no liney rocks mapped (? or yet)
- or C a VMS!

But VMS occur in groups. I find one, and more nearby!!! Stream may expose fresh massive sulphides on steep hills! or float! #13351 silt may be diluted at 1 1/2 - 2 km out into glacial till. Or enhanced?? ?? by? ??? I think this area has great potential!!!

(2)
4

My plan is to camp at ▲ 1 and stake claims along claim line and cut out a camp at ▲ 2. I will look for gossans and float while doing this. 30+ claims will be staked along stream bottom which is on a boundary or contact of GEOLOGICAL UNITS.

Later on second ² trip, I will do silt samples and more prospecting. I will find where #3351 was and sample below it for 1-1½ km and upstream to #3349 and above on EAST + WEST FORKS. Side streams will also be done. Seeps and gossans will also be done. Intervals will be about 300'-600'. They will be tested for Au (30 gm) and 30 cement ICP. I will also prospect for float. Hopefully anomalous silt or float will be found.

② REFERENCES

5

① ROOTS, CHARLIE YUKON EXPLORATION
and GEOLOGY

1996 p. 138-146

- UPPER PALEOZOIC STRATA
WITH POTENTIAL FOR MASSIVE
SULPHIDE MINERALIZATION NW
LANGING MAP AREA (10'S N) YUK
ON.

② GSC OPEN FILE #2363

1991 MAP NTS 105 N

③ GEOPHYSICAL PAPER MAP 4358 G

MAP 105 N 12

④ METALLOGENY OF VOLCANIC ARCS

1998 2 DAY MAPU

SHORT COURSE

⑤ PERSONAL COMMUNICATION

JOHN KOWALCHUK

(KENRICH
~~NO~~
+ NOLITE
VAN BC)

CHARLIE ROOTS (YUKON EDA)
DOUG EATON (ARCHER CATHRO)

②
6

BUDGET

(RAINBOW CR
PROJECT)

1998-10SN/2

GAS (gmc truck)

WH - MAYO - WH

2 times $\times 280 \times 2 \times \frac{100 \text{ km}}{62 \text{ miles}}$

\$ 830

1800 km $\times .46 / \text{km}$

Helicopter

1.6 $\times 4$ trips $\times 850 / \text{HR}$

\$ 5440

Seem

1st trip 21) 51 $\times 35$
2nd " 30)

\$ 1800

SITS 80 $\times 20 / \text{sit}$

\$ 1600

Rocks 40 $\times 22 / \text{Rock}$

880

Radio 2 month $\times 300 \times 25\%$ \$ 150
m self owned

Misc + gear

\$ 500

total

\$ 11,200



Upper Paleozoic strata with potential for massive sulphide mineralization, northwestern Lansing map area (105N), Yukon

Charlie F. Roots'
Yukon Geology Program

ROOTS, C. F., 1997. Upper Paleozoic strata with potential for massive sulphide mineralization, northwestern Lansing map area (105N), Yukon. In: Yukon Exploration and Geology, 1996, Exploration and Geological Services Division, Yukon, Indian and Northern Affairs Canada, p. 138-146

ABSTRACT

Northwestern Lansing map area, 120 km east of Mayo, lacks known mineral occurrences yet contains Upper Paleozoic stratigraphic units similar to those at volcanic-hosted and sedimentary exhalative deposits such as Marg and Macmillan Pass. Pyritic and locally baritic Eam Group and (previously unmapped) younger strata underlie most of the area. The sedimentary rocks are cleaved and folded but less strained than equivalent rocks in adjacent Mayo map area, and most contain abundant iron sulphide laminae, nodules, and replacements. A muscovite granite intrudes the grey-green phyllite. The Robert Service Thrust at the southern boundary of the Upper Paleozoic units, appears offset by steep, northwest-trending faults.

RÉSUMÉ

La région de la carte du nord-ouest de Lansing, située à 120 km à l'est de Mayo, ne contient aucune occurrence de minéraux connue, mais renferme des unités stratigraphiques du Paléozoïque supérieur semblables à celles des gisements exhalatifs sédimentaires et inclus dans des roches volcaniques, à Marg et dans le col Macmillan. Le Groupe pyritique et, par endroits, barytinique d'Eam, et les couches plus récentes, non cartographiées jusqu'alors, constituent la plus grande partie du sous-sol de la région. Le siltstone phylliteux gris-vert, peut-être d'origine volcanique, a une nette signature aéromagnétique. Les roches sédimentaires sont clivées et plissées, mais moins déformées que les roches équivalentes de la région voisine de la carte de Mayo, et la plupart regorgent de lames, nodules et matériaux de substitution constitués de sulfure de fer. Un granite à muscovite pénètre l'unité phylliteuse gris-vert. La faille inverse Robert Service, qui forme la limite sud des unités du Paléozoïque supérieur, semble compensée par des failles abruptes de direction nord.

¹ Geological Survey of Canada, Vancouver Division

INTRODUCTION

Lansing map area, midway between the mineral districts of Elsa-Keno Hill and Macmillan Pass, contains 30 mineral occurrences (Yukon Minfile, 1996), surprisingly few for an area of its size within Selwyn Basin. The area is distant from road-accessible settlement, and many of these occurrences were discovered during large grass-roots exploration programs. The Hess Project (a 1967-69 joint venture between Atlas Exploration Ltd., Quebec Cartier Mining Ltd and Phillips Bros.) discovered at least 12 occurrences. One of these became the Plata-Inca property which produced 2800 tonnes of high grade silver-lead ore between 1976 and 1985 (Abbott, 1986). Follow-up of reconnaissance silt geochemistry anomalies (Friske et al, 1990) and favourable Earn Group stratigraphy by Kennecott Exploration Ltd. in 1991 and 1992 led to 6 new mineral occurrences. No mineral occurrences are known in the northwest quarter of the map area, southeast and on trend with the Marg volcanogenic massive sulphide deposit (Turner and Abbott, 1990) and Upper Devonian metavolcanic and baritic strata (Abbott, 1990a; Gordey, 1990a). This area is probably worth careful search for sedimentary and volcanic exhalative mineralization. A lack of geological information and maps, coupled with poor exposure, hamper this search.

The Geological Survey of Canada began systematic regional mapping of Lansing (105N) map area in 1993 with the cooperation of the Canada-Yukon Geoscience Office and initial funding from

the Canada-Yukon Economic Development Agreement (1991-96). Interim reports and maps include Roots and Brent, (1994 a, b, c) and Roots et al. (1995 a, b). In 1996 many outcrops in the northwest quadrant (covered by 1:50,000 scale maps 105N/11, 12, 13 and 14) were examined during foot traverses with logistical support by float-plane, helicopter and river-boat. Highlights of mapping included delineation of a previously unknown, 30 km long, up to 3 km wide exposure of Keno Hill quartzite, a granitic intrusion, as well as numerous exposures of green-grey phyllitic siltstone.

This report contains an overview of regional structure and summary lithological descriptions for three Upper Paleozoic rock units (no stratigraphic sections are exposed), as well as two localities which have implications for mineral exploration and structural interpretation. Correlations are tentative, rock analyses and age determinations are in progress, and this report will be supplanted by a final manuscript and map for Lansing map area.

REGIONAL STRATIGRAPHY AND STRUCTURE

Lansing map area lies near the northern edge of the Selwyn Basin, which is the outer part of the Lower Paleozoic miogeocline of ancestral North America (Gordey and Anderson, 1993). Stratigraphic units in the Lansing area are summarized in Table 1. The Late Proterozoic off-shelf depositional environment accumulated grit succeeded by shale and chert. This regime was disrupted by Late Devonian block faulting, deposition of Earn Group

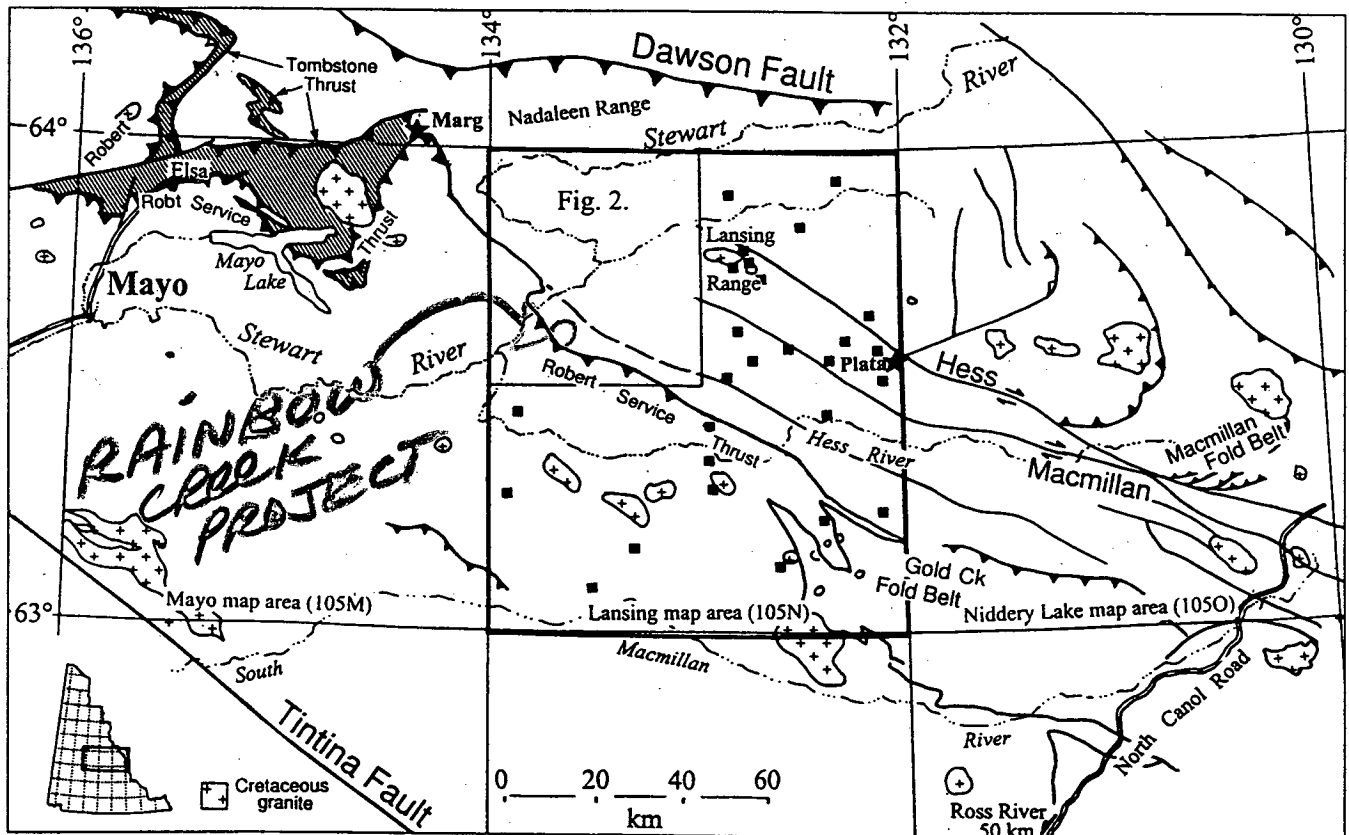


FIGURE 1: Regional faults (adapted from Wheeler and McFeely, 1991) and mineral occurrences (Yukon Minfile, 1996) in Lansing map area (outlined). Tombstone thrust panel is hachured.

1990). In Lansing map area iron-coated streambeds, zinc, lead and silver silt anomalies, and stratiform barite constitute 10 mineral occurrences (Yukon Minfile, 1996) in Earn Group rocks. An important feature of the Earn Group, particularly along the Stewart River shoreline from Ortell Creek mouth to Seven Mile Canyon, are abundant iron sulfide nodules, concretions and laminated

strata; these are not present or not mentioned at any known mineral occurrences. The nodules consist of fine-grained masses or agglomerated crystals with the marcasite habit. Nodules range from pea-size to 2 cm thick x 5 cm long (Fig. 3) and may be packed in accumulations up to 1 m in diameter, or dispersed and comprise perhaps 1% of large outcrops. Laminated pyritic strata

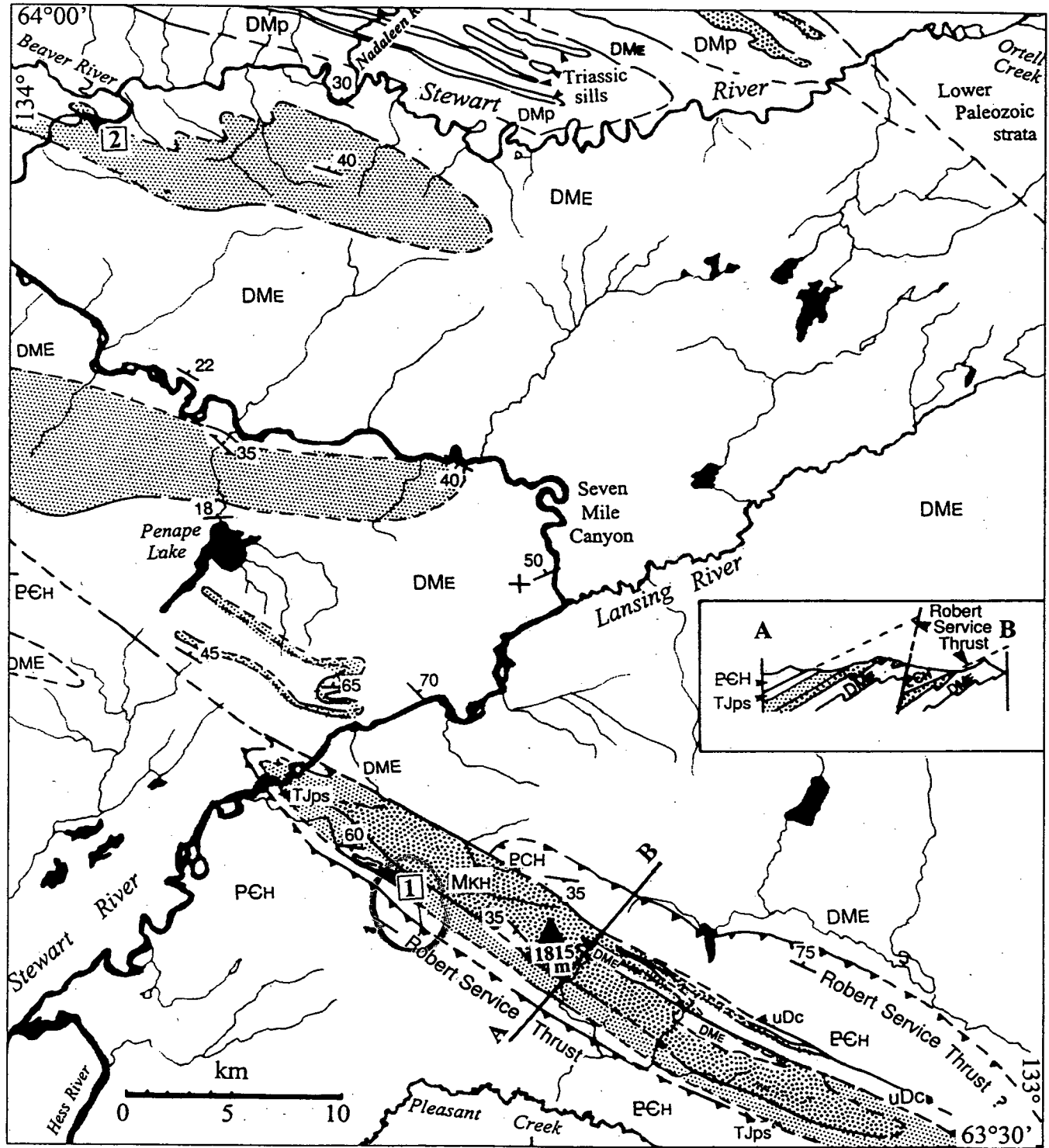


FIGURE 2: Geological units in northwestern Lansing map area.

Age (or ages) are unknown, and among the sparse exposures only two contacts with other units were seen. The southern belt overlies Keno Hill quartzite stratigraphically; it may correlate with either the Permian Mount Christie Formation (Gordey and Anderson, 1993), or an un-named Carboniferous-Permian unit recognized in eastern Lansing map area (Roots et al., 1995b). The greenish cast of the rocks in the northern belts may result from chloritic alteration of mafic minerals; if so these rocks could be distal to metavolcanic rock of either Upper Devonian or Lower Carboniferous (Gordey, 1990a,b; Turner and Abbott, 1990) age. Less likely is that these are older rocks thrust over the Earn Group; they might be Steel Formation (Gordey and Anderson, 1993) of Silurian age. The formations mentioned above contain fine-grained, grey-green strata. Until the age is known correlations are speculative, but the rock is described to provoke its recognition by others, perhaps leading to new conclusions about its age and origin.

The most southerly belt is flanked to the northeast by Keno Hill quartzite. Weathering brown with shades of pink or beige, this light green, waxy to flaky textured, siliceous mudstone is distinctive. Iron sulphide nodules up to 1 cm thick are common. Near Locality 1 (next section) gradations between siltstone and fine sandstone laminae indicate upright bedding. Because adjacent Keno Hill quartzite forms an anticlinal structure, the grey-green phyllite probably overlies it.

North of the Stewart River thin-bedded and laminated grey to green and yellow indurated argillite is exposed in two parallel cliff bands, one about 100 vertical metres above the other, 13 km southwest of the confluence of Lansing River. The similar rock type, appearance and approximate thickness revealed by the two cliffs suggest an isoclinal repetition. The regional aeromagnetic map (Teskey, 1995) shows prominent, linear positive anomalies coincident with these cliff bands, perhaps reflecting the abundant disseminated iron sulphide noted many samples. This belt is therefore interpreted as a syncline of younger rocks within Earn Group. The absence of Keno Hill quartzite suggests the phyllite could be as old as Lower Carboniferous, and the age may be resolved if identifiable microfauna are yielded by the thin, discontinuous grey limestone on the ridgetop.

A third area underlain by grey-green cherty argillite and phyllite is interpolated from widely spaced exposures north and west of Penape Lake, as well as along the Stewart River west of Seven Mile Canyon. Bedding in each of four exposures is uncertain, but slaty cleavage dips gently to moderately northeastward. The interpolated map width of this unit is at least 1 km. The best exposure flanks the outlet stream north of Penape Lake, where green and pinkish-brown weathering, greenish yellow indurated phyllite contains abundant weathered-out iron sulphide pockets. At this locality the phyllite appears to structurally overlie Earn Group exposed farther south. The contact between similar rock and Earn Group is exposed farther east on the south shore of the Stewart River. 2 km west of the entrance to Seven Mile Canyon. Green-brown phyllite with gently north dipping slaty cleavage is observed at low water levels directly overlain by south dipping beds of black shale and

chert. Although a disconformable relationship is possible, expected rip up clasts or coarse-grained basal layer are absent. Instead the contact is interpreted as a minor fault. In Seven Mile Canyon the Earn Group is contorted in large chevron folds with gently south-dipping axes. Minor layer-parallel thrust faults are consistent with this structural style.

The fourth area, possibly the most extensive of grey-green phyllite, comprises high hills several kilometres south of Stewart River, south of the Nadaleen River confluence. Tops of the hills expose flaggy pink-brown and green-grey weathering, dark grey and green argillite and phyllitic siltstone; iron sulphide nodules are common. Thick, moderately north-dipping layering is locally discernible; more prominent is a poorly developed foliation, defined by flattened silicate minerals, that dips moderately northeast. This rock type extends down the flanks into talus at the base of slope, where a buried contact is suspected because carbonaceous silty argillite (Earn Group) is exposed at the heads of streams draining north and south from the hills. Topographically the grey-green phyllite overlaps the Earn Group. Ten kilometres westward these two units are in direct contact, as described for Locality 2 (next section).

In summary the four belts of grey-green phyllite are lithologically similar, although contact relations are insufficient to determine stratigraphic relations. If it is as young as Permian (Mount Christie Formation) which it most resembles, the absence of Keno Hill quartzite from all but the southern belt is puzzling. Alternatively the unit may represent volcanic-derived sediment distal to the discontinuous metavolcanic units of Upper Devonian (unit DMv of Gordey, 1990b) or Mississippian (unit DMvs of Turner and Abbott, 1990) age. No grains or coarse grained sedimentary layers were seen despite a thorough search. Volcanic parentage cannot be proven. Nevertheless the lateral extent, common alteration and iron sulphide content of the unit, along structural trend from the Marg volcanogenic massive sulphide deposit, requires further investigation.

LOCALITIES OF INTEREST

Locality 1

is a prominent orange weathering rock cliff facing southwest into "Rainbow Creek" (local name) which drains northwest into the Stewart River east of '1815 m mountain'. Located at 63°37'N 133°40'W, this locality is protected by steep, dense forest and a lack of nearby helicopter landing sites. The covered surface trace of the Robert Service Thrust trends northwest, roughly parallel to the creek on its south side of the valley. The footwall Earn Group, consisting of black mudstone laced with white quartz and lesser brown phyllite which results in iron-stained seeps, is exposed in the floor of the steep-walled creek. The northeast side is brush-covered talus surmounted by 200 m high vertical cliffs. Rusty weathering green, grey and brown interlaminated siltstone and fine sandstone, commonly silicified, occurs at the west end and atop the cliffs. This rock, considered part of the southern belt of the grey-green phyllite described above, has a map width of 2

km to a possible stratigraphic contact with Keno Hill quartzite. In at least several places the siltstone is deeply oxidized and clay-altered. The cliff, when viewed from a vantage point across "Rainbow Creek", reveals a reticulate pattern of granitic dykes, up to 30 m wide, vertically and horizontally on the face. Talus blocks consist of medium grained, leucocratic, muscovite granite, and contain up to 1% interstitial sulphide blebs (probably pyrrhotite). This granite has not been described or shown on earlier maps. Because the exposure is steep, the plan view of this intrusion is minute, yet it is probably 1300 m long.

No indication of previous exploration or economic mineralization was encountered during a rapid traverse of the area in 1996. The reconnaissance stream sediment geochemical survey (Friske et al., 1991; sites 3351 and 3349) sampled "Rainbow Creek" 3 km downstream from the cliff. Site 3351 is highly anomalous in As, Ba, Sb, Rb and most REE; Cu, Ag, Hg and Cr are above background values. All metallic elements show large increases when compared to another site (3349) on the same creek 2 km above locality 1. The newly-discovered intrusion, prospective stratigraphic units and abundant red alteration are worthy of follow-up.

Locality 2,

a small rock island and adjacent shoreline of the Stewart River 2 km southwest of the mouth of the Beaver River, exposes a contact which may be critical to understanding the regional structure. The locality (63°57'N 133°54.5W) is on southeastward extrapolation of the Tombstone Thrust (Abbott, 1990a,b). Carbonaceous shale and siltstone (probably Earn Group) containing abundant iron sulphide nodules are exposed northeast and southwest of the locality. In these outcrops cleavage is subordinate to generally northeast dipping bedding, although isolated exposures reveal southeast, and northwest dips, suggesting regional open folds with east-trending axes. At the locality north of the island, a steep (75° N) dipping succession of similar black shale with 2 cm thick grey siltstone interbeds (Earn Group), is structurally overlain by grey-green phyllitic mudstone (Fig. 5). At the contact, exposed along 15 m of shoreline at low water levels, is a 5 cm thick, grey silicified and tectonized layer. This rock appears to represent recrystallized fault gouge, dips about 35° northeast, and contains streaky white quartz which defines a stretching lineation gently plunging toward 100° azimuth.

The rock above the tectonized layer is exposed on both sides of the river for about 500 m as well as on the small island. Most common is a papery-cleaved, locally slaty or crumbly, phyllitic grey mudstone, although 5 cm thick brown sandstone interbeds on the island exhibit poorly preserved ripples which could be interpreted as inverted. About 100 m upstream from the island a brightly coloured (alteration with iron reduction fronts) outcrop contains bedding dipping gently northeast, coplanar with cleavage and the underlying tectonized layer.

The significance of a fault contact between the two principal rock units of the area is unclear. The overlying rock unit exhibits more structural fabric and alteration than the underlying Earn Group. If

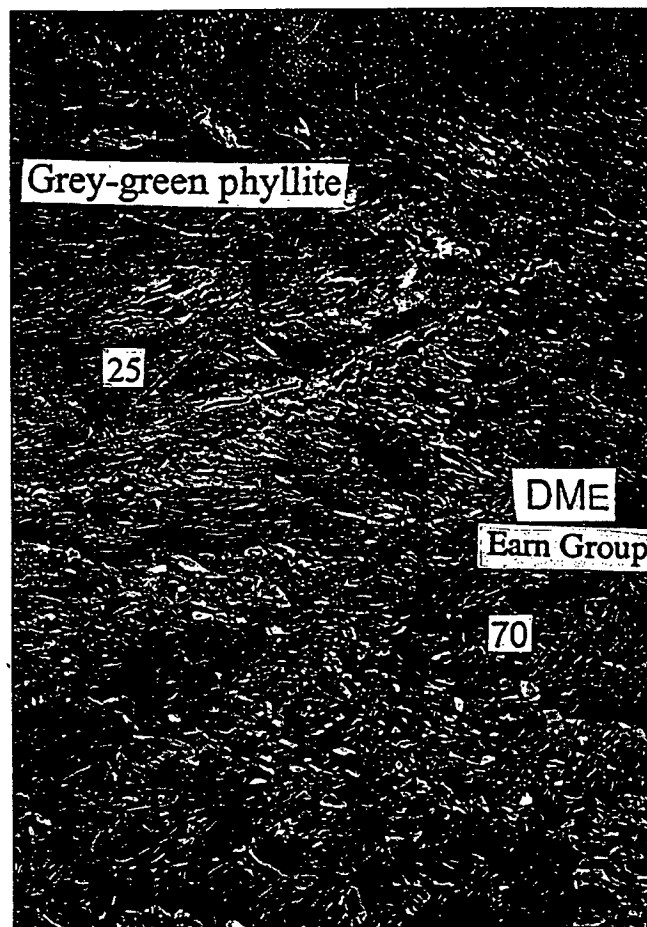


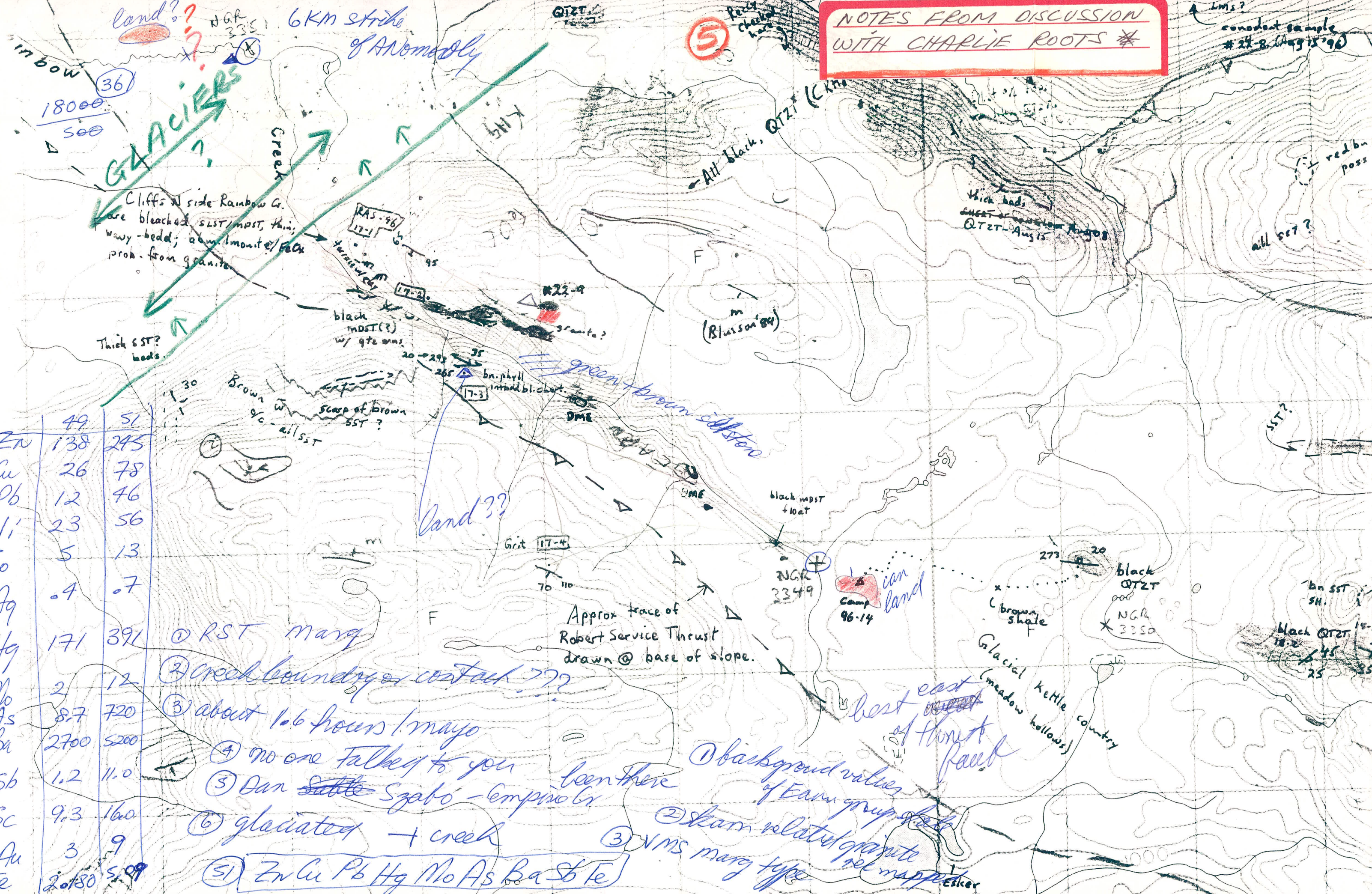
FIGURE 5: North bank outcrop on the Stewart River 1.7 km southwest of the mouth of Beaver River (Locality 2, discussed in text). Dark grey, thin bedded siltstone (Earn Group) in lower half is separated from lighter, altered phyllite by a 5 cm thick, light grey tectonized layer. The contact may be a low-angle thrust the same width as the standard text columns

correlated with the grey-green phyllite that caps the high hills directly east of the locality, it may be tectonically emplaced on low angle faults. The fault could be a splay of the Tombstone Thrust. Alternatively the contact at Locality 2 may be merely a competency contrast between black siltstone and grey shale with a tectonized boundary layer. This quite pleasant stretch of Stewart River shoreline deserves further examination by structural geologists.

ACKNOWLEDGMENTS

The stimulating field assistance of Diane Brent and Bruce Mitford, the gracious hospitality of Beth Hunt and family at the historic Lansing Post site, and capable flying of Ernie Onafreychuk and Pat Damian contributed to an excellent field season. Dr. A.E.H. Pedder of GSC Calgary identified the Upper Devonian corals. Don Murphy, Grant Abbott, Maurice Colpron and Dave Caulfield discussed field relationships with me, but flaws in the interpretation remain my own. The manuscript was improved by Dirk Tempelman-Kluit.

NOTES FROM DISCUSSION WITH CHARLIE ROOTS



	49	51
Zn	138	295
Cu	26	78
Pb	12	46
Ni	23	56
Co	5	13
Ag	.4	.7
Hg	171	391
Mo	2	12
As	8.7	720
Ba	2700	5200
Sb	1.2	11.0
Sc	9.3	16.0
Au	3	9
Fe	20/80	5.09

- ① RST marg
- ② creek boundary or contact ???
- ③ about 1.6 hours / mayo
- ④ no one talked to you been there
- ⑤ Dan Sattler Szabo - Empress Cr
- ⑥ glaciated + creek

⑤ Zn Cu Pb Hg Mo As Ba Sb Fe

- ① background values of Earth group stuff
- ② skarn related granite
- ③ VMS marg type

best east of front pass

can land

Approx trace of Robert Service Thrust drawn @ base of slope.

black QTZT

Galacial Kettle (meadow hollows) country

black QTZT

red b... poss

all sst?

sst?

bn sst sh.

black QTZT

thick beds

(Blusson '84)

green-brown siltstone

land??

scarp of brown sst?

black mdsT(?) w/ qtz crns

Grit

black mpsT float

NGR 3349

black QTZT

NGR 3350

NGR 3351

conodont sample #22-9 Aug 15 '96

Lms?

5

All black, QTZT (K...)

517

6KM strike of Anomaly

NGR 3351

land??

GLACIERS

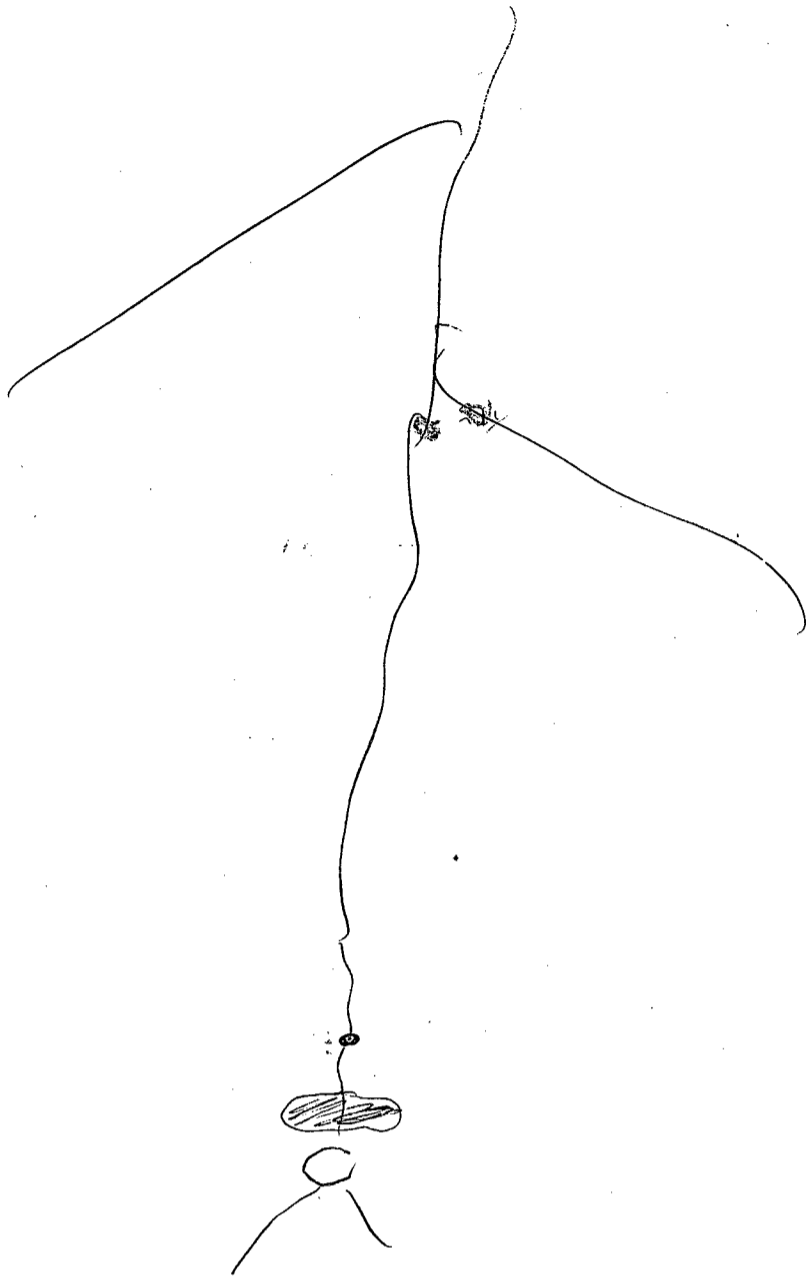
Cliffs N side Rainbow Cr. are bleached sst/mpst, thin, wavy-bedded; abundant monite/FeOx prob. from granite

Thick sst? beds

Brown qtz w all sst

inbow 36 18000 500

Zn	138	295
Cu	26	78
Pb	12	46
Ni	23	56
Co	5	13
Ag	.4	.7
Hg	171	391
Mo	2	12
As	8.7	720
Ba	2700	5200
Sb	1.2	11.0
Sc	9.3	16.0
Au	3	9
Fe	20/80	5.09



1:30,000

A12328-198 upper end stream

A23485-~~so~~ big one
-50

A12230 -402 to west

mag map

topo map

geom map

photo copy (article)

aerial photo

3350

3348

3353

1170

~~1170~~

3135

3136 (3133)

3340



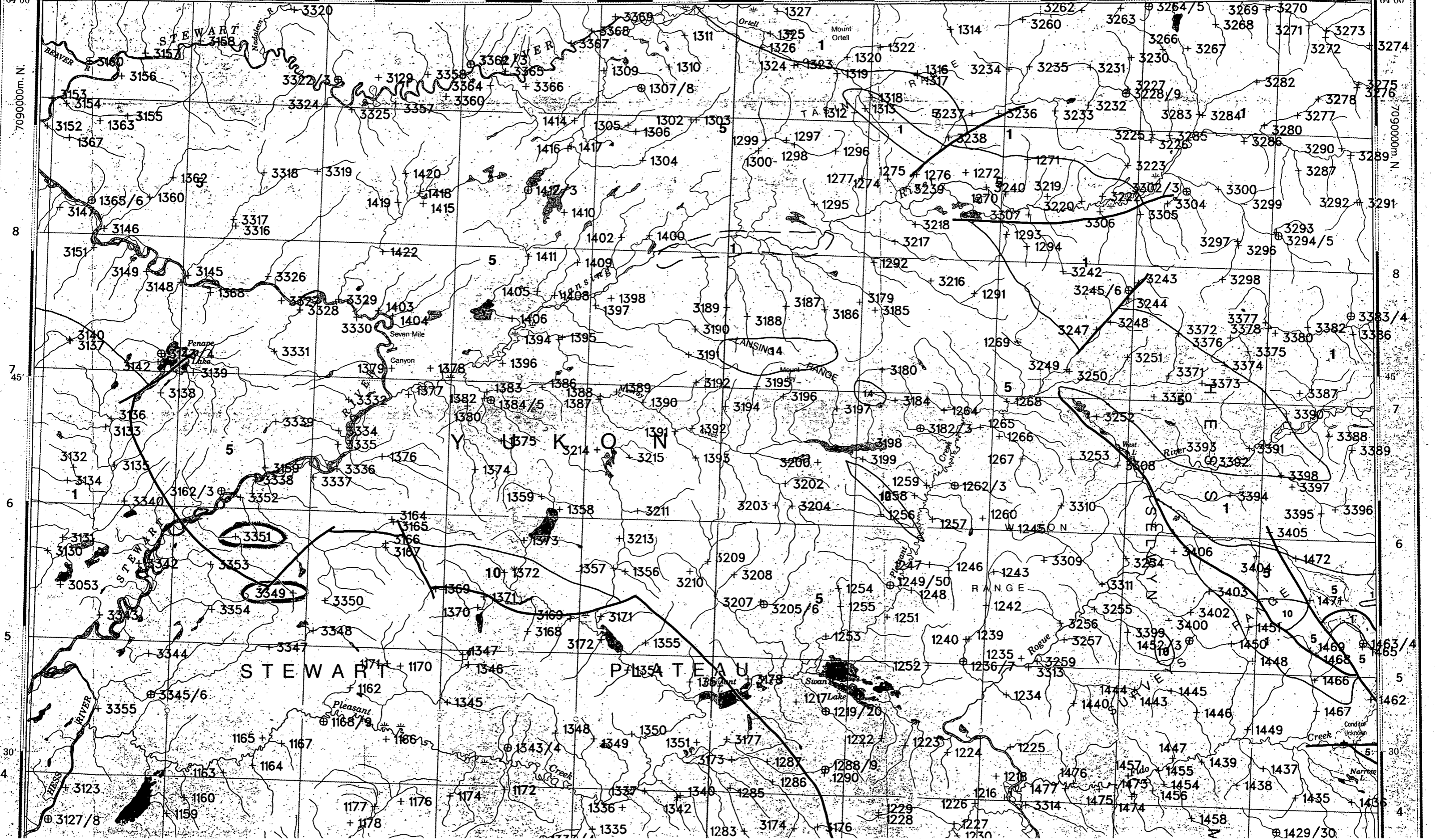
Energy, Mines and Resources Canada

Énergie, Mines et Ressources Canada

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NTS 105N

560000m. E. 7 30' 8 15' 9 0 1 45' 2 30' 3 15' 640000m. E. 134°00' 45' 133°00' 45' 132°00'



7090000m. N. 8 7 6 5 4

7090000m. N. 8 7 6 5 4

GEOLOGY LEGEND

CENOZOIC

Tertiary

15 ITs 58 conglomerate, sandstone, shale

MESOZOIC

Cretaceous

14 Kqm 52 quartz monzonite, granodiorite; alaskite

13 KSF 52 South Fork; andesite, dacite, basalt

PALAEOZOIC

Carboniferous and Permian

12 CPcs 35 cherty dolomite, quartzite, shale

Devonian and Mississippian

11 DMS 29 Sylvester Group: shale, chert arenite, conglomerate, basic volcanic rocks

10 DME 29 Earn Group: undivided shale, chert arenite, conglomerate

9 DMss 29 sandstone, conglomerate, shale

Devonian

8 DEI 25 Earn Group (lower): slate, quartzite, limestone

7 Dp 25 shale, siltstone

Middle Devonian

6 mDpc 27 shale, limestone (may include older)

6a mDc 27 limestone, dolomite, shale (Arnica, Landry, Natla, Headless, Nahanni)

Silurian and Devonian

6b SDc 24 Delorme, Camsell, Sombre: dolomite, limestone, shale

Ordovician, Silurian and Lower Devonian

5 OSDR 19 Road River: black graptolitic shale, chert (may include older; may not include Devonian)

Ordovician and Silurian

5a OSc 19 limestone, shale (includes Rockslide, Brokenskill, Sunblood)

Cambrian and Ordovician

4 COc 14 dolomite, limestone, siltstone (includes Rockslide, Brokenskill, Sunblood)

4a COp 14 shale, limestone

Lower Cambrian

4b ICS 11 Sekwi: dolomite, limestone, quartzite

4c ICBR 11 Backbone Ranges: quartzite, slate

3 ICHq 11 Harvey Group: quartzite, schist

2 ICp 11 siltstone, shale

PROTEROZOIC

Hadrynian

1 Hqp 07 gritty quartzite, argillite, shale, phyllite (may include Lower Cambrian)

~ ~ ~ GEOL. BOUNDARY
 — FAULT

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105 N LAWSING

1991



National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data, Yukon, 1991. GSC OF 2363, NGR 155-1991. NTS 105M
Field Data

Map Sheet	Sample ID	Rep Stat	UTM Zn Easting	UTM Northing	Rock Unit	Rock Age	Sample Type	Stream Width	Stream Depth	Sample Cont.	Bank Type	Water Colour	Stream Flow	Sample Colour	Sample Comp	Bottom Pcpt	Bank Pcpt	Stream Physiol.	Stream Drainage	Type	Stream Class	Source
105N	903322	10	08 570905	7092062	OSDR	19	Sed/Water	0015	002	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903323	20	08 570905	7092062	OSDR	19	Sed/Water	0015	002	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903324	00	08 570159	7090226	OSDR	19	Sed/Water	0025	002	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903325	00	08 571991	7089883	OSDR	19	Sed/Water	0020	001	None	Colluv	Clear	Slow	Rd-Bn	021	Rd-Bn	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903326	00	08 566299	7077316	OSDR	19	Sed/Water	0025	002	None	Colluv	Clear	Slow	Gy-Blu	221	Rd-Bn	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903327	00	08 567358	7075546	OSDR	19	Sed/Water	0005	001	None	Colluv	BnTrans	Slow	Gy-Blu	031	None	None	Swamp	Dendrc	Permnt	Pri'ary	Ground
105N	903328	00	08 568758	7074906	OSDR	19	Sed/Water	0010	002	None	Colluv	BnTrans	Slow	Gy-Blu	021	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903329	00	08 571551	7075788	OSDR	19	Sed/Water	0020	002	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903330	00	08 572908	7074513	OSDR	19	Sed/Water	0008	002	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903331	00	08 566961	7071793	OSDR	19	Sed/Water	0005	001	None	Colluv	BnTrans	Slow	Gy-Blu	021	None	None	Swamp	Dendrc	Permnt	Pri'ary	Ground
105N	903332	00	08 572557	7068368	OSDR	19	Sed/Water	0004	001	None	Colluv	BnTrans	Slow	Gy-Blu	021	None	None	Swamp	Dendrc	Permnt	Pri'ary	Ground
105N	903334	00	08 571920	7065998	OSDR	19	SedOnly			None	Colluv			Gy-Blu	120	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903335	00	08 571903	7065010	OSDR	19	Sed/Water	0015	003	None	Colluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903336	00	08 571900	7063176	OSDR	19	Sed/Water	0007	002	None	Colluv	Clear	Slow	Gy-Blu	221	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903337	00	08 570194	7062508	OSDR	19	Sed/Water	0008	002	None	Colluv	BnTrans	Slow	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903338	00	08 565924	7062164	OSDR	19	Sed/Water	0030	003	None	Colluv	Clear	Modert	Gy-Blu	220	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903339	00	08 567273	7066538	OSDR	19	Sed/Water	0010	002	None	Colluv	BnTrans	Slow	Gy-Blu	031	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903340	00	08 556352	7060286	Hqp	07	Sed/Water	0003	001	None	Colluv	BnTrans	Slow	Gy-Blu	031	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903342	00	08 557586	7055704	Hqp	07	Sed/Water	0010	002	None	Colluv	Clear	Slow	Rd-Bn	021	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903343	00	08 554840	7051807	Hqp	07	Sed/Water	0010	001	None	Colluv	Clear	Slow	Gy-Blu	022	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903344	00	08 558512	7049088	Hqp	07	Sed/Water	0010	001	None	Colluv	Clear	Slow	Rd-Bn	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903345	10	08 558790	7046030	Hqp	07	Sed/Water	0025	002	None	Colluv	Clear	Modert	Gy-Blu	021	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903346	20	08 558790	7046030	Hqp	07	Sed/Water	0025	002	None	Colluv	Clear	Modert	Gy-Blu	021	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903347	00	08 567377	7049824	Hqp	07	Sed/Water	0015	002	None	Colluv	Clear	Slow	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903348	00	08 570571	7051155	Hqp	07	Sed/Water	0015	003	None	Colluv	Clear	Slow	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903349	00	08 569009	7053887	Hqp	07	Sed/Water	0008	004	None	Colluv	BnTrans	Slow	Gy-Blu	032	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903350	00	08 571356	7053400	OSDR	19	Sed/Water	0010	002	None	Colluv	BnTrans	Slow	Gy-Blu	031	None	None	Swamp	Dendrc	Permnt	Pri'ary	Ground
105N	903351	00	08 564596	7057925	OSDR	19	Sed/Water	0025	002	None	Colluv	Clear	Slow	Gy-Blu	121	Rd-Bn	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903352	00	08 564850	7060833	OSDR	19	Sed/Water	0015	002	None	Colluv	Clear	Slow	Gy-Blu	221	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903353	00	08 562839	7055803	Hqp	07	Sed/Water	0020	003	None	Colluv	Clear	Modert	Gy-Blu	131	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903354	00	08 563035	7052496	OSDR	19	Sed/Water	0010	002	None	Colluv	Clear	Slow	Gy-Blu	131	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903355	00	08 554977	7044851	Hqp	07	Sed/Water	0010	003	None	Colluv	Clear	Slow	Gy-Blu	221	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903356	00	08 554430	7034100	Hqp	07	Sed/Water	0008	001	None	Colluv	Clear	Slow	Gy-Blu	120	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903357	00	08 575203	7090424	OSDR	19	Sed/Water	0025	004	None	Alluv	Clear	Modert	Brown	122	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903358	00	08 577492	7092693	OSDR	19	Sed/Water	0030	004	None	Alluv	Clear	Modert	Gy-Blu	122	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903360	00	08 578887	7091101	OSDR	19	SedOnly	30		None	Alluv	*	*	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Sec'ary	Ground
105N	903362	10	08 580609	7093502	OSDR	19	Sed/Water	0025	005	None	Alluv	Clear	Modert	Gy-Blu	122	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903363	20	08 580609	7093502	OSDR	19	Sed/Water	0025	005	None	Alluv	Clear	Modert	Gy-Blu	122	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground
105N	903364	00	08 582087	7091970	OSDR	19	Sed/Water	0030	005	Burn	Alluv	Clear	Modert	Gy-Blu	121	None	None	Hill	Dendrc	Permnt	Pri'ary	Ground
105N	903365	00	08 583125	7093060	OSDR	19	Sed/Water	0035	006	None	Alluv	Clear	Modert	Gy-Blu	120	None	None	Moun/M	Dendrc	Permnt	Pri'ary	Ground

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National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data, Yukon, 1991. GSC OF 2363, NGR 155-1991. NTS 105M
Analytical Data

Variable:	Zn	Cu	Pb	Ni	Co	Ag	Mn	Fe	Hg	F	V	Cd	Sn	LOI	Mo	As	Ba	Br	Co	Cr	Cs	Fe
Units:	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct	ppb	ppm	ppm	ppm	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	pct
Detection Limit:	2	2	2	2	2	0.2	5	0.02	10	20	5	0.2	1.0	1.0	2	0.5	50	0.5	1	5	1	0.01
Analytical Method:	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	AAS	ISE	AAS	AAS	AAS	GRAV	AAS	INA	INA	INA	INA	INA	INA	INA
105N 903322 10	195	63	16	57	13	0.8	547	3.45	195	508	29	1.8	10	6.8	9	14.0	1300	<	14.0	120.0	5.0	3.680
105N 903323 20	192	62	16	56	13	0.7	565	3.28	186	491	30	1.7	9	7.4	8	13.0	1400	1.5	14.0	120.0	5.0	3.660
105N 903324 00	127	54	14	34	9	0.3	526	2.60	154	328	26	<	2	6.5	2	14.0	3200	1.8	9.0	81.0	3.0	2.8
105N 903325 00	140	46	25	36	17	<	1380	3.60	139	371	26	<	10	7.0	2	13.0	2200	<	18.0	89.0	5.0	4.150
105N 903326 00	120	34	17	36	12	0.3	518	3.06	208	476	23	<	7	4.8	4	16.0	1600	<	12.0	84.0	5.0	3.610
105N 903327 00	106	25	15	26	9	<	481	2.65	176	511	20	<	4	11.6	2	10.0	1600	1.8	10.0	81.0	6.0	2.990
105N 903328 00	142	34	18	36	13	<	1043	3.57	243	498	24	<	6	10.8	3	16.0	2400	3.7	13.0	99.0	6.0	4.090
105N 903329 00	120	31	13	29	8	0.2	575	2.86	110	442	25	0.2	4	5.4	2	13.0	2000	<	10.0	69.0	3.0	3.080
105N 903330 00	141	28	20	28	11	<	670	2.89	95	488	30	0.3	10	4.0	3	12.0	1300	1.3	12.0	82.0	3.0	3.650
105N 903331 00	93	36	16	25	8	0.2	259	2.83	183	468	24	<	3	15.0	2	11.0	1200	2.2	9.0	76.0	4.0	2.810
105N 903332 00	131	35	16	28	11	<	1031	2.80	227	425	24	0.7	4	9.3	3	26.0	1800	2.1	12.0	70.0	4.0	3.1
105N 903334 00	148	41	17	31	11	<	876	3.11	274	533	24	0.4	7	4.7	3	23.0	2000	1.5	13.0	77.0	4.0	3.580
105N 903335 00	199	38	17	34	12	0.3	1800	3.35	293	535	30	0.9	4	9.5	3	27.0	1900	2.5	14.0	74.0	4.0	3.7
105N 903336 00	125	33	13	25	7	0.2	524	2.69	243	480	25	0.2	3	4.8	4	21.0	2700	<	8.0	62.0	3.0	2.780
105N 903337 00	136	30	15	26	8	<	722	2.75	183	536	26	0.3	3	6.2	3	18.0	2200	<	10.0	72.0	3.0	3.120
105N 903338 00	123	33	13	30	9	0.2	659	2.73	261	433	30	0.6	3	5.6	3	16.0	3000	1.1	11.0	72.0	3.0	2.990
105N 903339 00	148	55	13	49	8	0.4	718	2.38	271	358	32	2.3	5	31.7	3	24.0	1500	6.9	10.0	58.0	4.0	2.350
105N 903340 00	109	32	14	25	7	0.2	400	2.55	221	406	28	0.5	1	6.3	3	16.0	2400	1.0	8.0	57.0	3.0	2.670
105N 903342 00	167	40	24	35	12	<	1120	2.98	117	405	33	0.7	15	5.3	3	18.0	1100	<	14.0	79.0	3.0	4.060
105N 903343 00	135	40	20	35	11	0.4	935	3.40	135	476	31	0.6	11	4.6	3	18.0	1900	<	13.0	81.0	5.0	3.770
105N 903344 00	92	38	20	26	9	0.2	624	2.95	129	350	21	<	2	9.1	2	42.0	1200	2.0	11.0	56.0	2.0	3.160
105N 903345 10	83	30	21	25	10	<	724	3.04	69	325	19	<	3	5.2	2	11.0	1100	1.6	11.0	56.0	3.0	3.2
105N 903346 20	84	31	22	25	10	<	825	3.14	66	324	19	<	3	6.2	2	9.2	980	1.5	12.0	58.0	3.0	3.320
105N 903347 00	111	32	20	26	8	0.3	654	2.55	141	379	20	0.4	<	12.9	2	8.6	1500	4.1	11.0	68.0	4.0	2.770
105N 903348 00	99	37	15	31	8	0.7	1840	3.26	241	393	23	1.1	1	15.8	2	9.0	2100	3.8	11.0	74.0	4.0	3.080
105N 903349 00	138	26	12	23	5	0.4	270	2.12	171	474	28	0.7	5	8.3	2	8.7	2700	2.7	8.0	70.0	3.0	2.180
105N 903350 00	202	39	19	56	9	0.9	773	3.71	260	331	26	2.3	5	28.3	2	11.0	2100	6.5	11.0	87.0	5.0	3.320
105N 903351 00	245	78	46	56	13	0.7	616	3.67	391	612	22	2.0	14	4.4	12	720.0	5200	<	19.0	110.0	7.0	5.090
105N 903352 00	140	30	19	30	9	<	784	2.68	82	516	30	0.4	11	4.5	3	12.0	1100	1.4	12.0	64.0	3.0	3.2
105N 903353 00	118	43	25	33	9	0.3	848	2.82	168	482	29	0.6	4	10.5	3	25.0	2000	2.0	13.0	78.0	6.0	2.980
105N 903354 00	82	25	16	21	6	<	439	2.46	141	370	18	<	5	7.0	2	16.0	1000	1.7	8.0	55.0	3.0	2.440
105N 903355 00	174	36	16	34	9	0.4	413	2.48	142	459	39	1.1	1	7.0	3	13.0	2100	2.5	11.0	60.0	3.0	2.680
105N 903356 00	129	25	12	26	5	<	1120	0.96	73	339	31	1.9	38	4.4	7	8.7	1100	1.1	7.0	34.0	2.0	1.420
105N 903357 00	164	41	21	38	14	0.2	746	3.54	110	424	32	0.9	8	7.0	2	13.0	1500	1.1	16.0	80.0	4.0	4.070
105N 903358 00	116	43	14	29	8	0.2	941	2.34	89	339	28	0.7	9	19.2	2	9.7	1900	3.7	10.0	54.0	3.0	2.670
105N 903360 00	365	38	20	70	29	1.2	1280	3.09	202	436	39	4.4	6	19.0	3	14.0	3000	5.5	31.0	78.0	5.0	3.320
105N 903362 10	147	32	23	33	13	0.2	1320	4.14	73	426	28	0.3	7	5.7	2	14.0	990	1.7	17.0	82.0	4.0	4.590
105N 903363 20	148	34	24	33	14	0.2	1460	3.74	76	464	29	0.3	6	5.5	2	12.0	800	1.7	15.0	71.0	4.0	3.920
105N 903364 00	125	27	18	32	10	0.2	637	2.97	131	504	25	0.4	5	11.0	2	11.0	1200	1.8	12.0	81.0	5.0	3.340
105N 903365 00	128	41	24	30	12	0.2	814	3.09	85	447	29	0.3	13	5.7	2	11.0	1100	2.0	16.0	75.0	4.0	3.950

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National Geochemical Reconnaissance Stream Sediment and Water Geochemical Data, Yukon, 1991. GSC OF 2363, NGR 155-1991. NTS 105M
Analytical Data

Variable:	Hf	Na	Rb	Sb	Sc	Ta	Th	U	W	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Au	Wt	Au1	Au1/Wt	pH	U-W	F-W
Units:	ppm	pct	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	gm	ppb	gm	-	ppb	ppb
Detection Limit:	1	0.01	5	0.1	0.1	0.5	0.2	0.5	1	0.5	3	5	0.1	0.2	0.5	0.2	0.05	2	0.01	2	0.01	-	0.05	20
Analytical Method:	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	INA	-	INA	-	GCM	LIF	ISE
105N 903322 10	7.0	0.72	78.0	1.8	13.0	1.0	11.0	4.4	<	53.0	100.0	41.0	7.6	2.0	1.2	4.5	0.67	7.0	18.92	6.	14.830	8.1	0.40	120.
105N 903323 20	7.0	0.70	95.0	1.7	13.0	1.0	12.0	4.4	<	54.0	100.0	47.0	7.9	2.1	1.4	4.6	0.65	10.0	17.07	7.	15.070	8.1	0.20	130.
105N 903324 00	7.0	0.54	47.0	0.9	8.9	0.9	9.4	2.6	<	35.0	70.0	27.0	5.4	1.5	1.0	3.6	0.56	5.0	20.16	-	-	8.1	0.12	70.
105N 903325 00	7.0	0.55	90.0	1.1	12.0	0.7	15.0	3.4	<	47.0	97.0	38.0	6.4	1.7	1.3	3.8	0.57	4.0	18.21	-	-	8.0	0.12	60.
105N 903326 00	11.0	0.61	74.0	1.2	11.0	1.3	13.0	4.4	<	57.0	110.0	47.0	8.4	2.2	1.6	5.2	0.73	<2.0	18.96	-	-	8.1	0.10	110.
105N 903327 00	8.0	0.74	87.0	0.9	11.0	0.9	11.0	2.6	<	44.0	88.0	33.0	6.6	1.7	1.2	3.9	0.58	4.0	18.14	-	-	7.2	<	50.
105N 903328 00	10.0	0.66	110.0	1.1	12.0	1.0	13.0	4.3	<	50.0	100.0	40.0	7.1	2.0	1.3	4.5	0.70	3.0	15.60	-	-	8.0	0.15	40.
105N 903329 00	7.0	0.50	60.0	1.4	8.9	0.6	10.0	3.2	2.0	37.0	76.0	27.0	5.5	1.5	1.0	3.2	0.49	<2.0	21.08	-	-	8.1	0.30	60.
105N 903330 00	8.0	0.51	82.0	1.2	10.0	1.2	12.0	3.8	<	44.0	91.0	33.0	5.9	1.6	0.9	3.3	0.52	2.0	21.07	-	-	8.0	<	40.
105N 903331 00	8.0	0.65	77.0	1.0	10.0	<	11.0	4.0	<	38.0	80.0	30.0	5.5	1.6	1.0	3.7	0.57	5.0	18.22	-	-	7.8	<	30.
105N 903332 00	7.0	0.53	63.0	2.2	9.2	0.7	9.5	3.4	<	32.0	66.0	24.0	5.0	1.4	1.0	3.3	0.53	4.0	21.25	-	-	7.7	<	90.
105N 903334 00	6.0	0.39	73.0	1.8	9.5	1.0	9.6	4.0	<	36.0	72.0	28.0	4.7	1.4	0.9	3.0	0.45	3.0	19.63	-	-	ns	ns	ns
105N 903335 00	6.0	0.44	83.0	2.1	11.0	1.2	10.0	3.9	<	39.0	75.0	29.0	5.8	1.3	0.7	2.7	0.52	6.0	19.57	-	-	8.1	0.19	70.
105N 903336 00	6.0	0.39	72.0	2.7	9.2	0.6	8.1	2.9	<	34.0	64.0	22.0	5.3	1.1	<	2.3	0.43	6.0	20.47	-	-	7.9	4.00	60.
105N 903337 00	7.0	0.46	85.0	2.0	10.0	1.0	10.0	4.1	<	39.0	74.0	29.0	6.1	1.3	0.7	2.8	0.45	3.0	18.75	-	-	8.1	0.81	80.
105N 903338 00	7.0	0.57	84.0	2.0	10.0	1.4	9.8	3.9	1.0	37.0	69.0	24.0	5.7	1.1	0.7	2.6	0.46	4.0	19.54	-	-	8.2	1.25	80.
105N 903339 00	5.0	0.39	68.0	2.0	9.0	0.6	7.5	7.5	<	29.0	56.0	22.0	4.6	1.1	0.7	2.4	0.40	4.0	16.05	-	-	7.1	<	60.
105N 903340 00	6.0	0.41	59.0	2.4	8.5	0.7	7.6	3.1	<	30.0	59.0	20.0	4.9	1.1	0.6	2.4	0.44	7.0	21.15	-	-	7.2	<	40.
105N 903342 00	6.0	0.56	87.0	1.6	12.0	1.1	11.0	3.2	<	42.0	81.0	30.0	6.3	1.3	0.9	3.0	0.54	<2.0	18.07	-	-	8.1	3.40	70.
105N 903343 00	5.0	0.54	120.0	2.2	13.0	1.3	12.0	3.7	1.0	46.0	87.0	31.0	6.5	1.3	<	2.9	0.51	4.0	21.03	-	-	8.0	2.10	70.
105N 903344 00	7.0	0.54	74.0	1.4	9.0	<	12.0	3.5	<	55.0	110.0	31.0	7.8	1.6	<	2.5	0.49	7.0	20.78	-	-	8.2	0.85	60.
105N 903345 10	14.0	0.67	85.0	0.9	9.5	1.4	20.0	4.7	1.0	95.0	180.0	66.0	14.0	2.4	1.5	4.1	0.70	20.0	20.49	<2.	14.780	8.1	1.70	60.
105N 903346 20	13.0	0.61	78.0	0.8	9.5	1.1	21.0	4.5	<	89.0	170.0	72.0	12.0	2.6	1.3	4.0	0.67	6.0	20.11	15.	12.000	8.1	2.00	60.
105N 903347 00	9.0	0.55	96.0	1.1	11.0	0.9	13.0	4.3	<	49.0	96.0	37.0	6.8	1.5	0.7	3.3	0.56	6.0	18.93	-	-	8.1	0.50	70.
105N 903348 00	7.0	0.50	69.0	1.0	11.0	1.0	9.3	4.2	<	32.0	63.0	27.0	4.8	1.3	0.7	3.1	0.54	6.0	17.49	-	-	8.1	0.15	80.
105N 903349 00	7.0	0.44	54.0	1.2	9.3	0.8	8.4	3.9	<	32.0	60.0	29.0	4.7	1.1	0.6	2.8	0.46	3.0	19.43	-	-	8.0	0.25	90.
105N 903350 00	6.0	0.32	65.0	0.9	12.0	1.2	9.3	5.9	<	31.0	63.0	24.0	4.9	1.3	0.7	3.1	0.38	4.0	14.08	-	-	7.5	<	110.
105N 903351 00	11.0	0.35	130.0	11.0	16.0	1.7	13.0	6.8	<	52.0	100.0	40.0	8.0	1.9	1.1	4.9	0.79	9.0	17.45	-	-	8.2	<	90.
105N 903352 00	6.0	0.43	60.0	1.0	10.0	0.8	9.2	2.8	1.0	36.0	67.0	26.0	4.9	1.2	0.7	2.5	0.44	<2.0	19.88	-	-	8.1	0.88	110.
105N 903353 00	7.0	0.47	89.0	2.1	11.0	<	12.0	4.0	<	40.0	77.0	31.0	5.6	1.3	0.8	2.7	0.37	<2.0	20.83	-	-	8.4	9.00	80.
105N 903354 00	10.0	0.66	75.0	0.9	9.3	<	15.0	3.2	<	89.0	160.0	63.0	11.0	2.1	1.1	3.0	0.46	2.0	29.39	-	-	8.2	1.38	70.
105N 903355 00	9.0	0.52	79.0	1.8	9.5	0.7	12.0	3.0	2.0	47.0	88.0	38.0	6.4	1.4	0.9	3.2	0.55	3.0	29.80	-	-	8.3	0.40	50.
105N 903356 00	3.0	0.26	39.0	1.4	5.0	0.7	5.3	4.5	<	19.0	36.0	13.0	2.5	0.6	0.5	1.5	<	4.0	27.02	-	-	8.0	3.75	120.
105N 903357 00	7.0	0.55	91.0	1.5	13.0	1.1	13.0	4.0	<	45.0	85.0	33.0	6.2	1.4	0.8	3.3	0.40	<2.0	23.37	-	-	8.0	0.45	220.
105N 903358 00	6.0	0.53	55.0	1.5	9.9	0.9	8.5	3.2	<	29.0	57.0	23.0	4.5	1.2	0.7	2.8	0.45	3.0	22.85	-	-	7.9	<	70.
105N 903360 00	6.0	0.45	79.0	3.7	12.0	0.8	9.6	4.8	<	35.0	66.0	27.0	5.5	1.4	0.8	3.4	0.55	7.0	19.57	-	-	ns	ns	ns
105N 903362 10	9.0	0.59	110.0	1.2	14.0	1.1	17.0	4.2	<	55.0	100.0	39.0	7.3	1.7	1.2	4.2	0.64	3.0	23.25	-	-	8.0	<	60.
105N 903363 20	8.0	0.50	87.0	1.0	12.0	0.6	14.0	3.3	<	46.0	87.0	32.0	6.1	1.5	0.8	3.2	0.55	3.0	24.99	-	-	8.1	<	50.
105N 903364 00	8.0	0.57	85.0	1.1	12.0	0.7	11.0	4.6	<	40.0	78.0	33.0	6.1	1.5	1.0	3.7	0.59	<2.0	23.01	-	-	7.9	0.15	50.
105N 903365 00	7.0	0.52	94.0	1.0	13.0	1.1	14.0	3.3	3.0	44.0	83.0	30.0	5.9	1.4	0.7	3.3	0.53	6.0	23.36	-	-	8.2	0.46	60.

11

SILT 3351

AREA OF INTEREST

2

CLAIM LINE

3349

1

1060

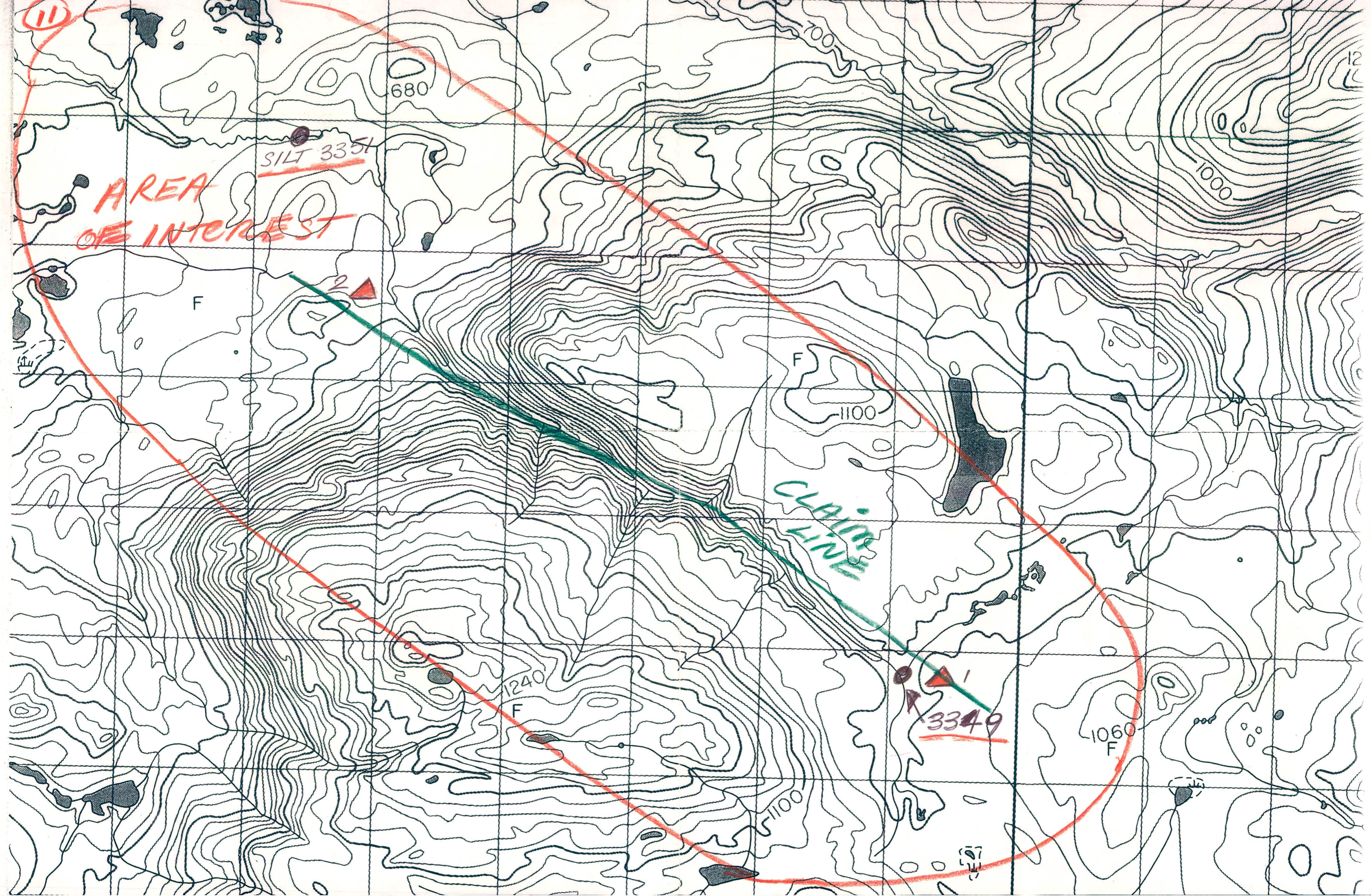
1240

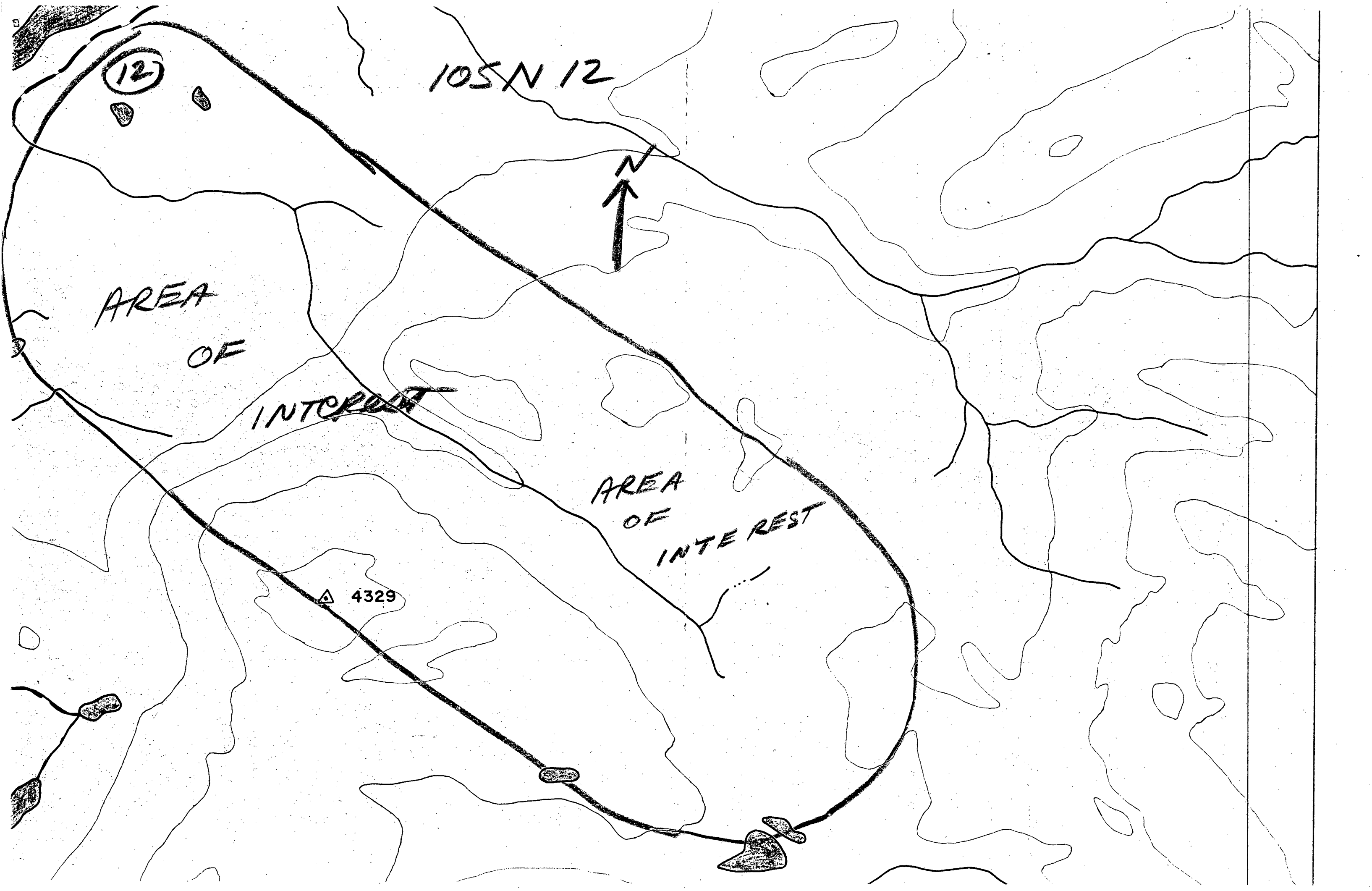
1100

680

1000

1100





105 N 12

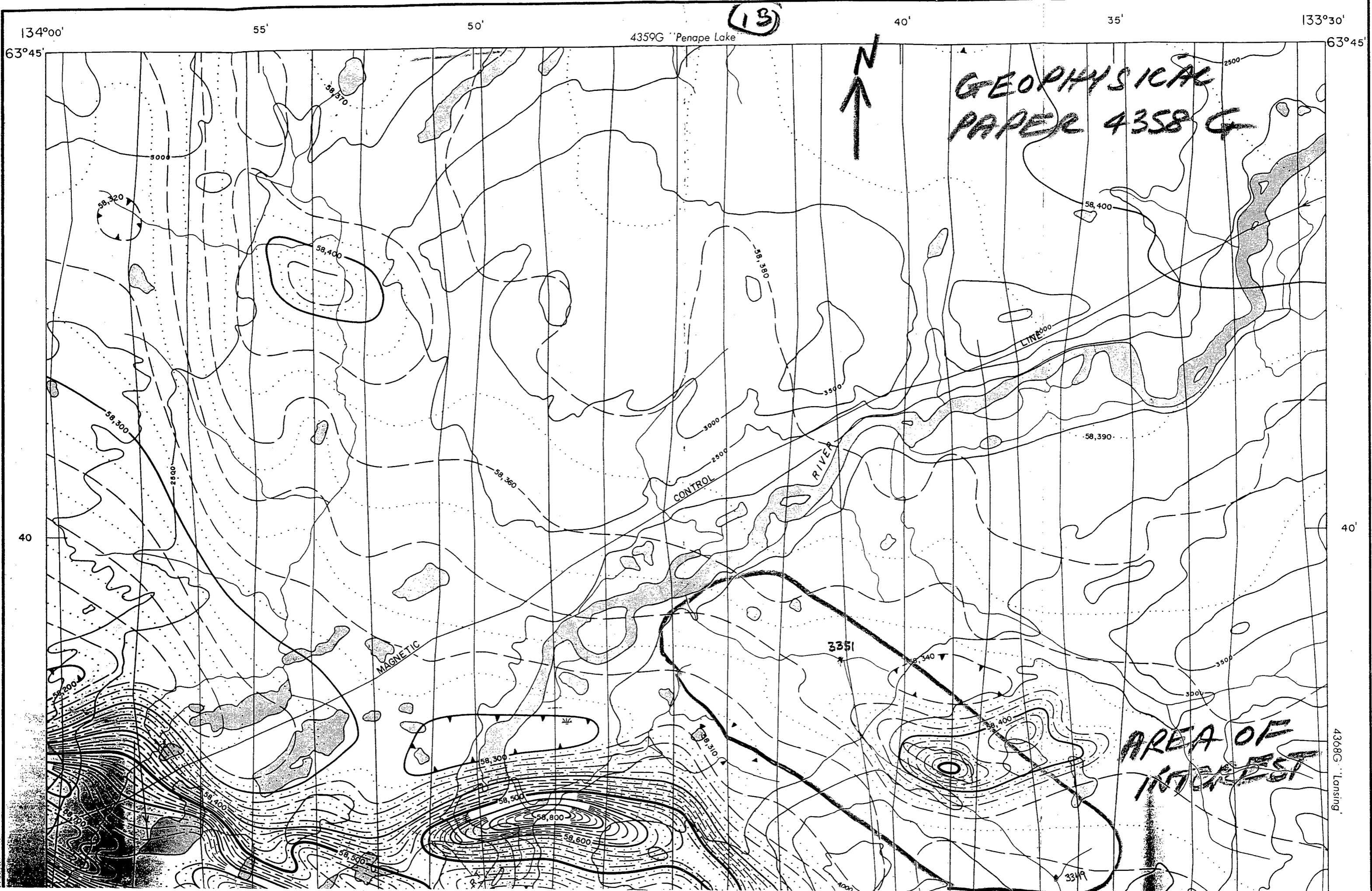
12

AREA
OF

INTEREST

AREA
OF
INTEREST

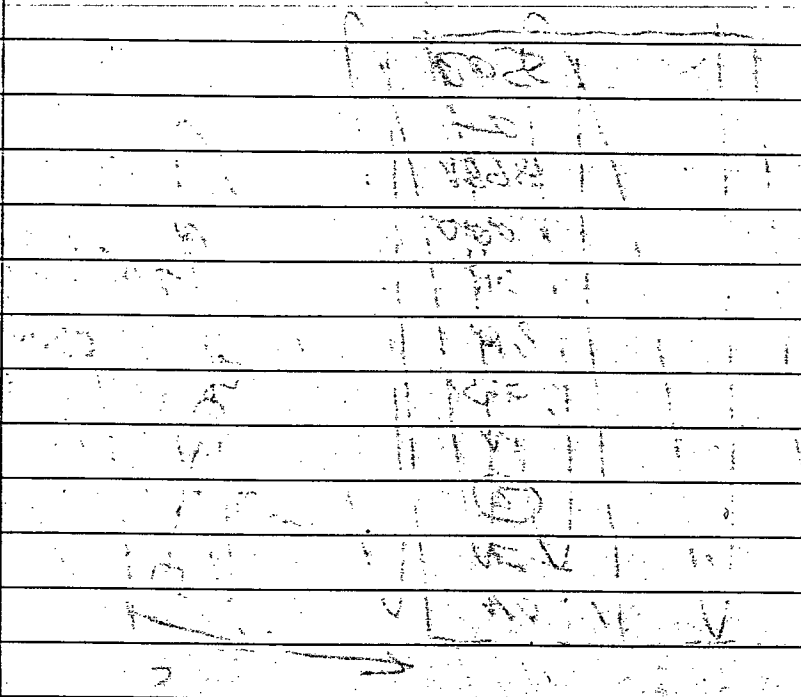
△ 4329



23

APRIL 98

LEFT WH for Stewart
Crossing AREA
mileage 198,468



24

APRIL 98

JUST DROVE AROUND + CHECKED

PLACES OUT + DISTANCES

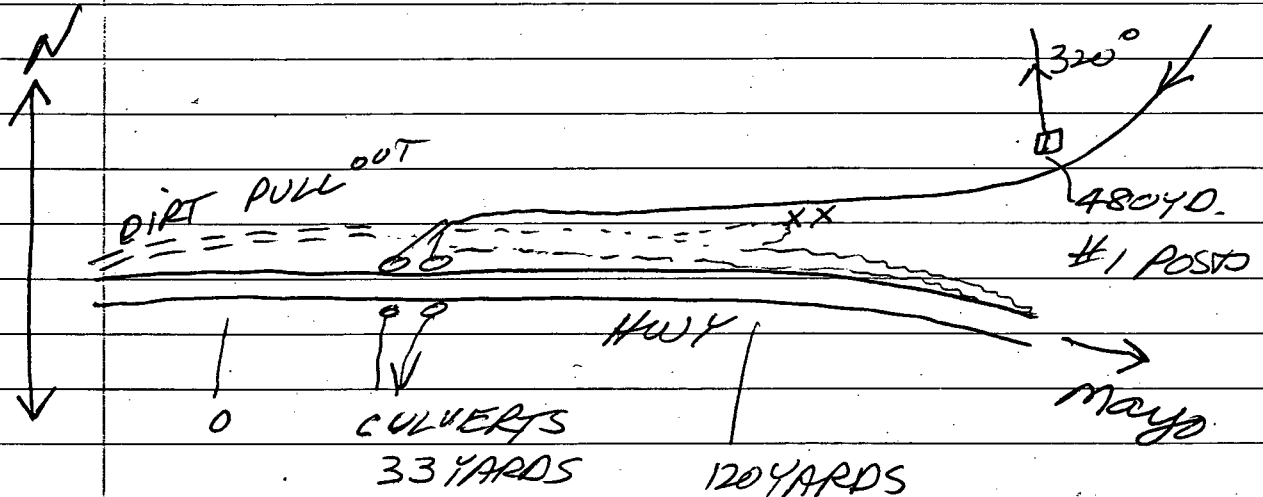
1	2000	10
2	2000	10
3	2000	10
4	2000	10
5	2000	10
6	2000	10
7	2000	10
8	2000	10
9	2000	10
10	2000	10

1	2000	10
2	2000	10
3	2000	10
4	2000	10
5	2000	10
6	2000	10
7	2000	10
8	2000	10
9	2000	10
10	2000	10

6
20
10
86

2

25
APRIL 98



Left X ΔTP96/73

SSVR22507

Rite X BS 3359

no float seen or outcrop,

26
APRIL 98

SNOW in early morning. Some on
ground to 12 or 2 o'clock. Did not
go out.

27

APRIL 98

Went into Mayo. Mining

recorder, Madrona phone call, grub,
etc. Got weather forecast.

28.
APRIL 98

Went out and did 4 ~~min~~ ^{min}

claims. NORTH END

NO.2	NO.2
ET	ET
⑤	⑥
28	28
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
30	30
7 PM	7 PM

485 yards
320°

NO.2	NO.2
ET	ET
③	④
28	28
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
4 ³⁰ PM	4 ³⁰ PM

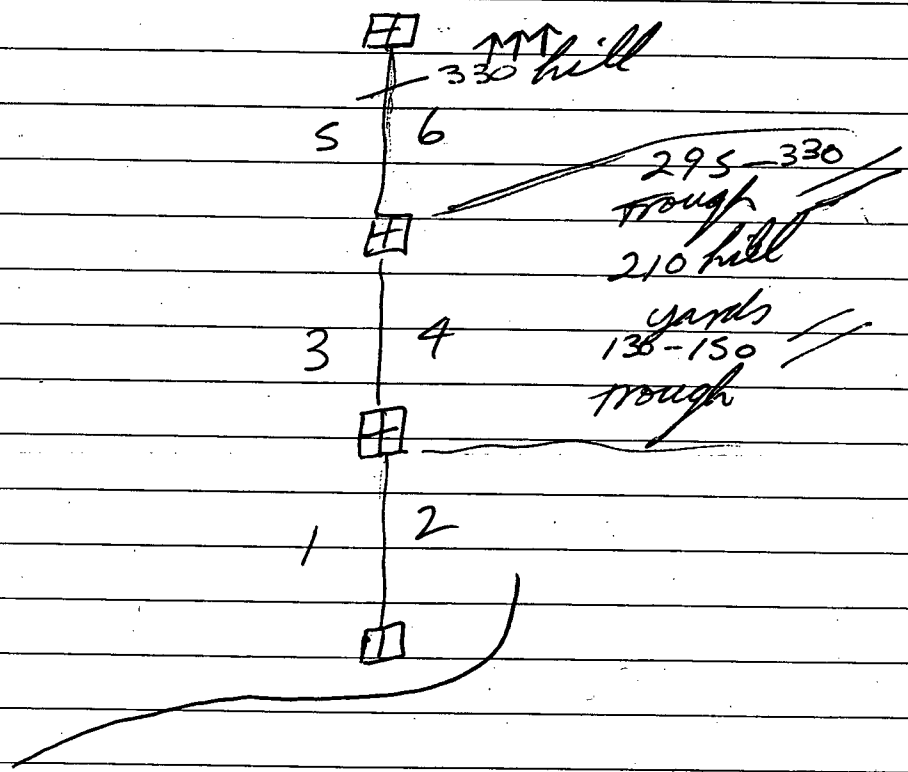
480 yds
320°

NO.1	NO.1
ET	ET
③	④
N	N
1500'	1500'
0' L	0' L
28	28
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS

12 PM
40

SOUTH END

28 April 98



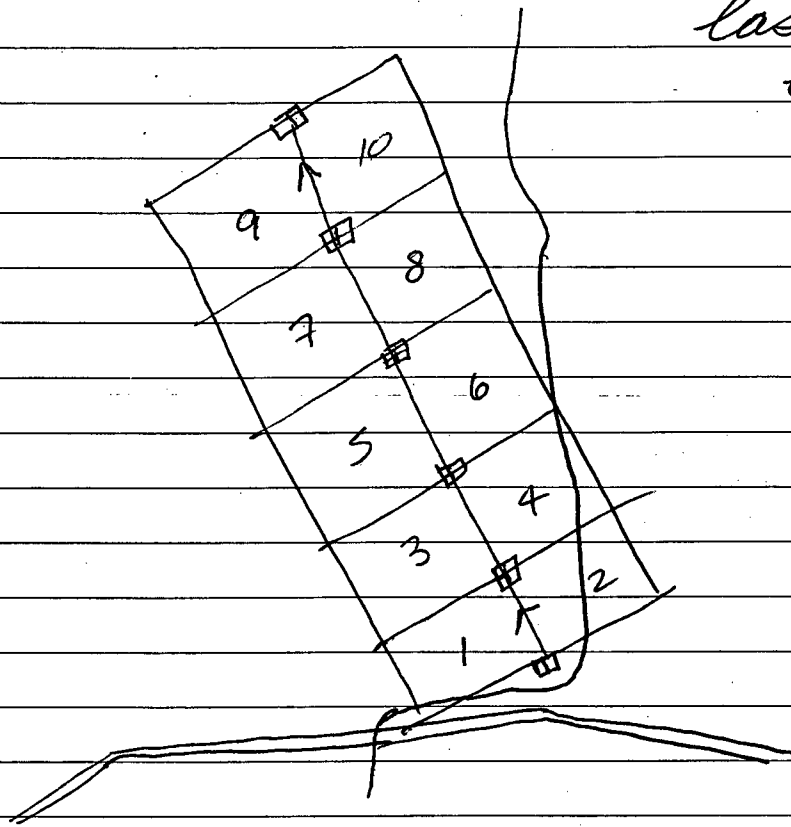
29
APRIL 98

Error fixed, 28 April - date was
put as 27 April - now changed,
to 28 APRIL

Did ET (7) - (10).

ET claims

7-8
last line 9-10
lot patches
of snow



SOUTH END

29
APRIL 98

NO. 1	NO. 1
ET	ET
(8)	(7)
N	N
1500'R	1500'L
0'L	0'R
29	29
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
2 ¹⁵ PM	2 ¹⁵ PM

✓ photos

320°
485 yds

320°
485 yds

NO. 2	NO. 2
ET	ET
(8)	(7)
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
5 ²⁵ PM	5 ²⁵ PM

NO. 2	NO. 2
ET	ET
(10)	(9)
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
7 ²⁰ PM	7 ²⁰ PM

NO. 1	NO. 1
ET	ET
(10)	(9)
N	N
1500'R	1500'L
0'L	0'R
29	29
APRIL	APRIL
1998	1998
JP	JP
ROSS	ROSS
5 ⁴⁰ PM	5 ⁴⁰ PM

30

APRIL 98

Went to Mayo. Picked up
MADRONA, Rock Res, IVAN; saw
Recorder.

1
MAY 98

NO.2	NO.2
ET	ET
(13)	(14)
1	1
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
7 ⁵⁰ PM	7 ⁵⁰ PM

✓

4 ³⁰ PM	4 ³⁰ PM
ROSS	ROSS
JP	JP
1998	1998
MAY	MAY
1	1
0 1/2	0 1/2
1500 1/2	1500 1/2
N	N
(13)	(14)
ET	ET
NO.1	NO.1

✓

320°
485
90.

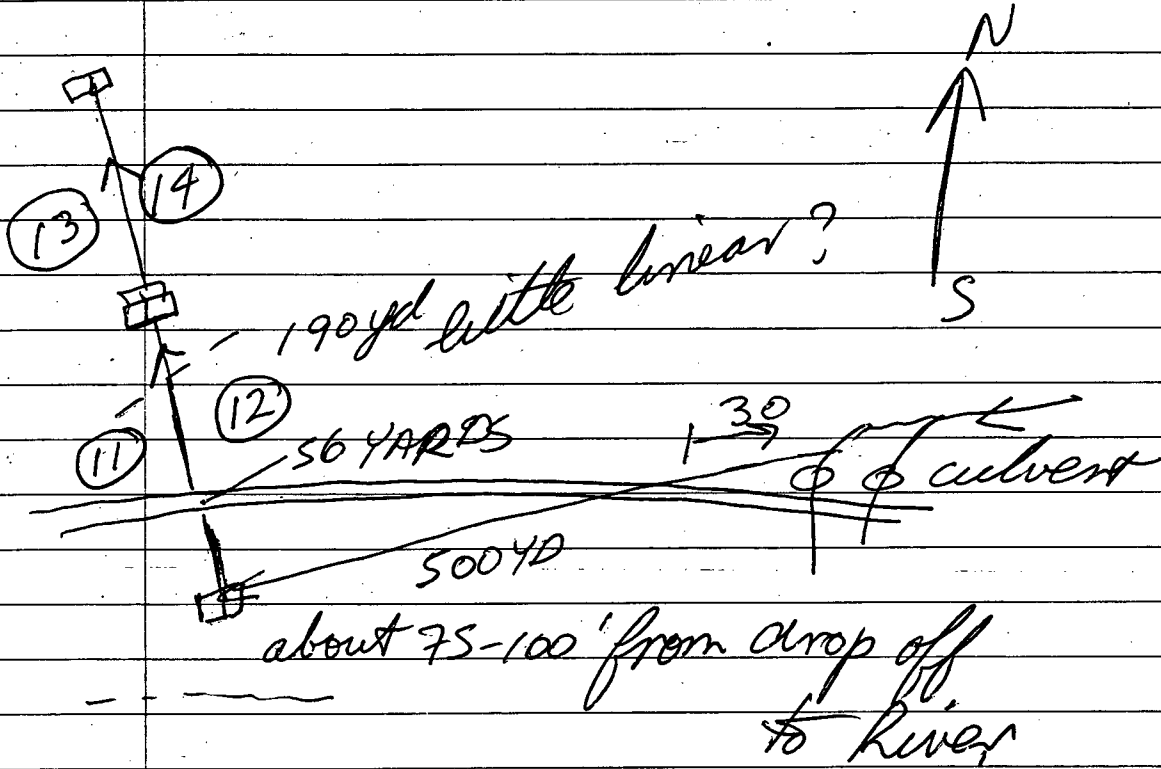
485 YD
320°

NO.2	NO.2
ET	ET
(11)	(12)
1	1
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
4 ¹⁰ PM	4 ¹⁰ PM

12 ¹⁰ PM	12 ¹⁰ PM
ROSS	ROSS
JP	JP
1998	1998
MAY	MAY
1	1
0 1/2	0 1/2
1500 1/2	1500 1/2
N	N
(11)	(12)
ET	ET
NO.1	NO.1

SOUTH END

1 May 1998



✓	N
	E
	(13)
	1
	M
	190
	J
	R
	75

320°

2
MAY 98

Got up early.

Rain (drizzle) start 2³⁰PM

Cleared up at nite.

Found LEATHERMAN
TOOL
i McGINTY
CR by CULVERT.

NO.2	NO.2
ET	ET
(15)	(16)
2	2
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
3 ³⁰ PM	3 ³⁰ PM

320° ↗ 485yd

NO.1	NO.1
ET	ET
(15)	(16)
N	N
1500' E	1500' E
0' L	0' L
2	2
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
12 ¹⁵ PM	12 ¹⁵ PM

SOUTH END

3
MAY 1998

(1/4)

RDS

not

SES

NO.2	NO.2
ET	ET
(19)	(20)
3	3
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
6 ⁴⁰ PM	6 ⁴⁰ PM

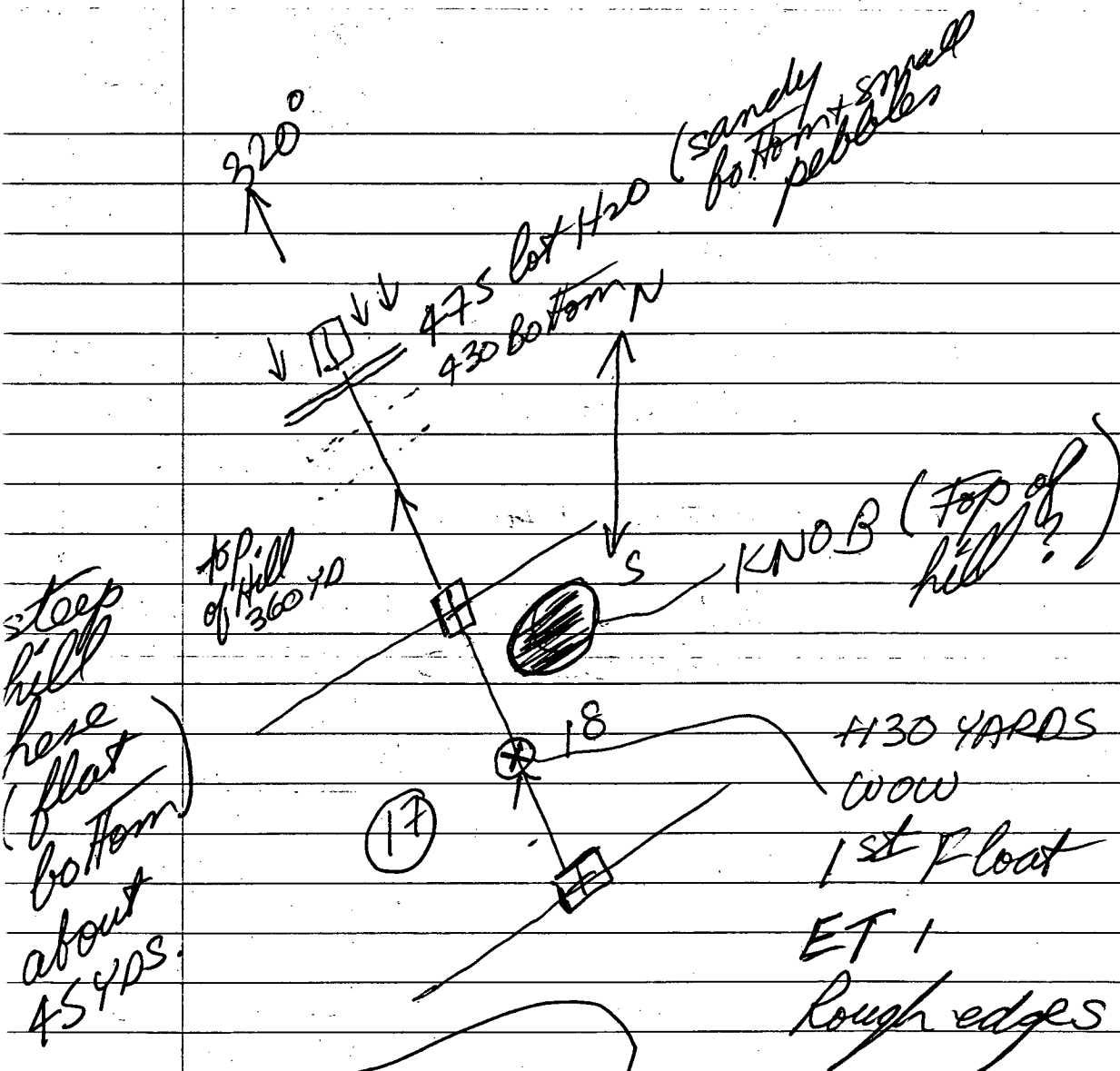
490 YD
320°

NO.1	NO.1
ET	ET
(19)	(20)
N	N
1500' R	1500' R
0.7	0.7
3	3
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
4 ³⁰ PM	4 ³⁰ PM

NO.2	NO.2
ET	ET
(17)	(18)
N	N
1500' R	1500' R
0.7	0.7
3	3
MAY	MAY
1998	1998
JP	JP
ROSS	ROSS
1 ³⁰ PM	1 ³⁰ PM

SOUTH END

3 May 1998



Saw some old flag tape
 past my line, on
 road, towards
 VIEWING
 place
 prob - Keno (93)

NOV
ET
(19)
3
MA
1998
JF
ROS
(45)
6 PM

4

MAY 98

Back to white horse.

199,536²¹

- 8,468

1,068 KM

25 APRIL 98

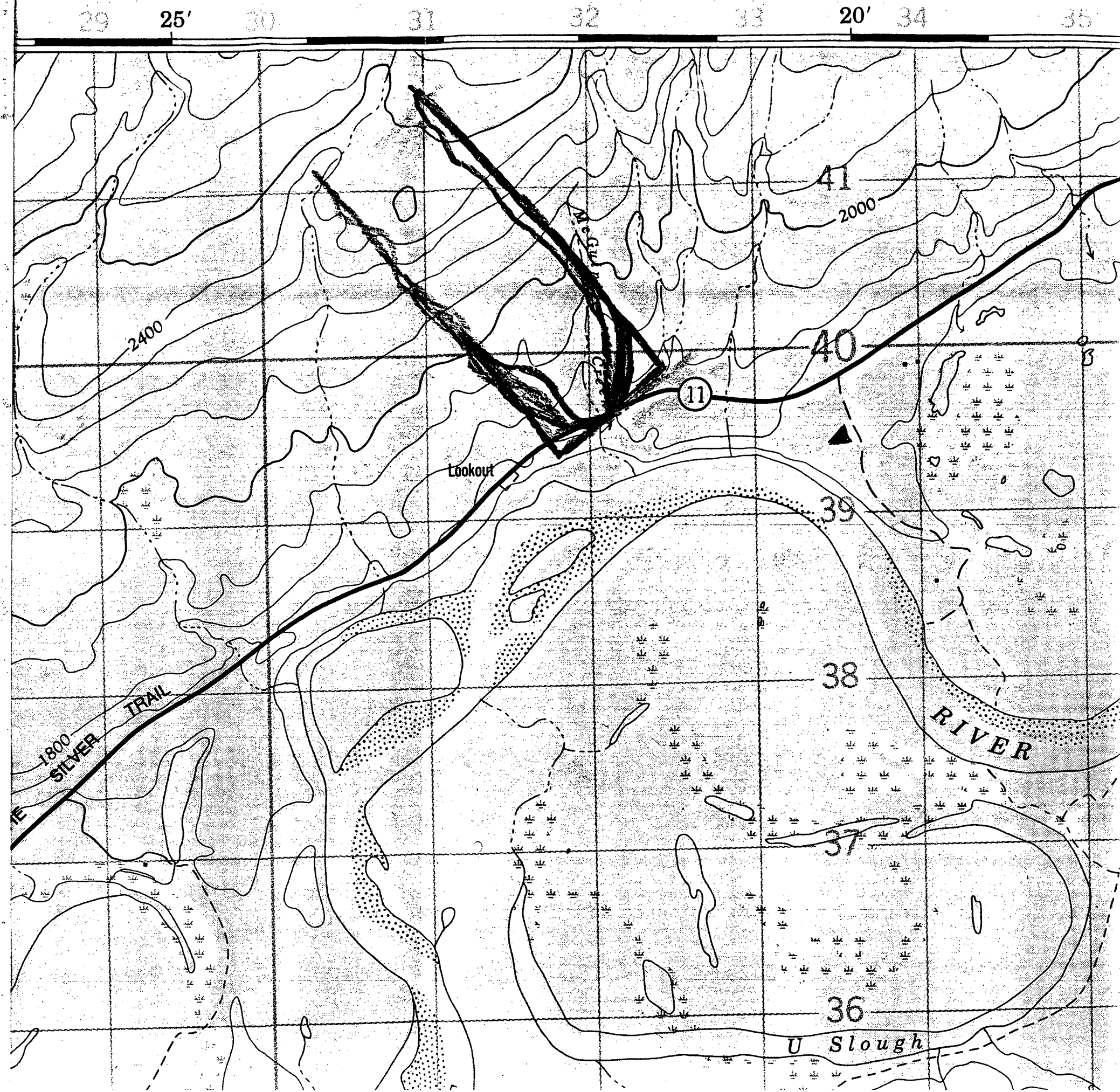
28 APRIL 98

29 APRIL 98

1 MAY 98

2 MAY 98

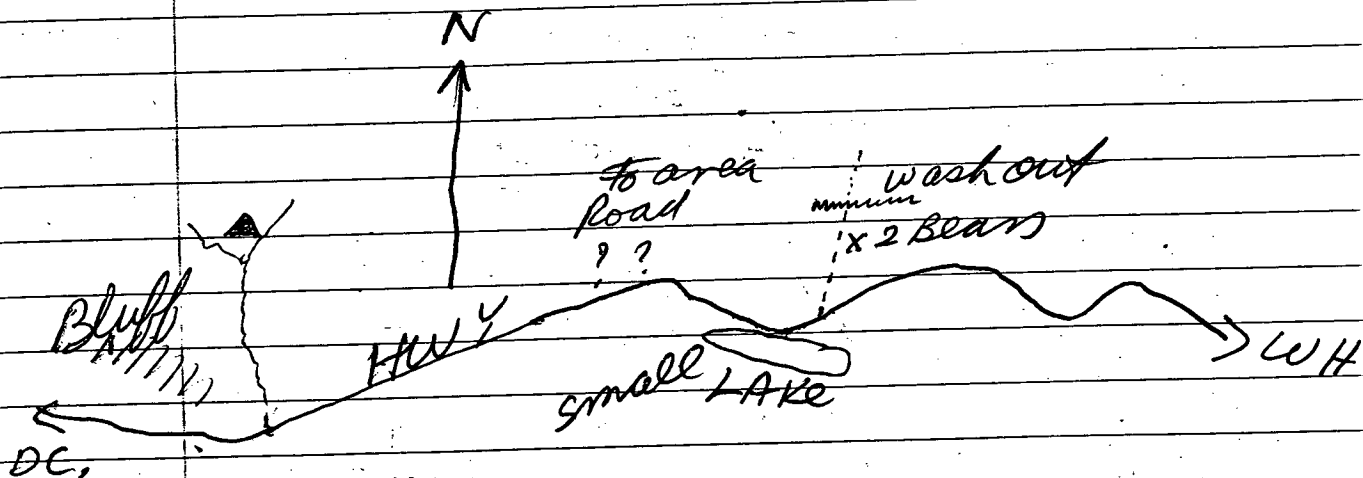
3 MAY 98



3 JULY 98

Drove out to new area -
McQuestion R. area

202, 193



2 - 1 year old - black bears on old
road - took time to leave after
horn
+ motor noise
- came back again

So drove about 4 km to sleep
road to area is not well marked.

3 JULY 98

These bears, I think, will be a problem; eventually.

Quite hot, so hot one tires quickly - close to 100° F ???

July 1 in Dawson City was a lot of fun!!!

Trees out here at ▲ are very large.

4

JULY 98

Tried to find road to trench. Took
long time - overgrown. Cut some trees.

At road, ^{1400'} overgrown + no marks.

9 m it clears up at about 200' or so.

No fire marks. Later → trees - I

cut some + then came to corner +

just too many,

Walked up a good distance -
come back later.

JUST TOO HOT TO DO MUCH.

4
July 98

AM 5⁰⁰ am had a bear
problem. Put hole in my H₂O
container.

Almost no sleep - just
too hot. Windows closed
because of bugs.

Drove around back
Roads in 1st gear 5 JULY 98

Bluffs no outcrop

ates in it

Went to moose creek ^{now FOX LAKE fire + no access to WH}

HARD to find took
long time
DITCH

overgrown by road
ditch no sign
upper & lesser
overgrown

???

trench
2 Av

25 Av

2 Bears

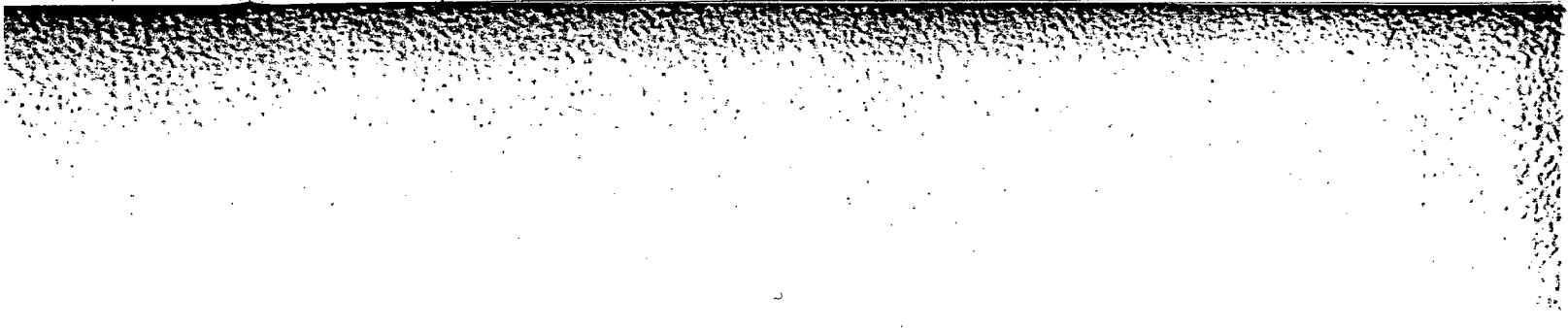
Av 15/0
(st. crossing)
996-2506
DATA - gravel pit
012

35 Av

culvert
dry
end

culvert
dry
& grassy

small road
to here
culvert
squashed bit
lot of water
sm round boulders



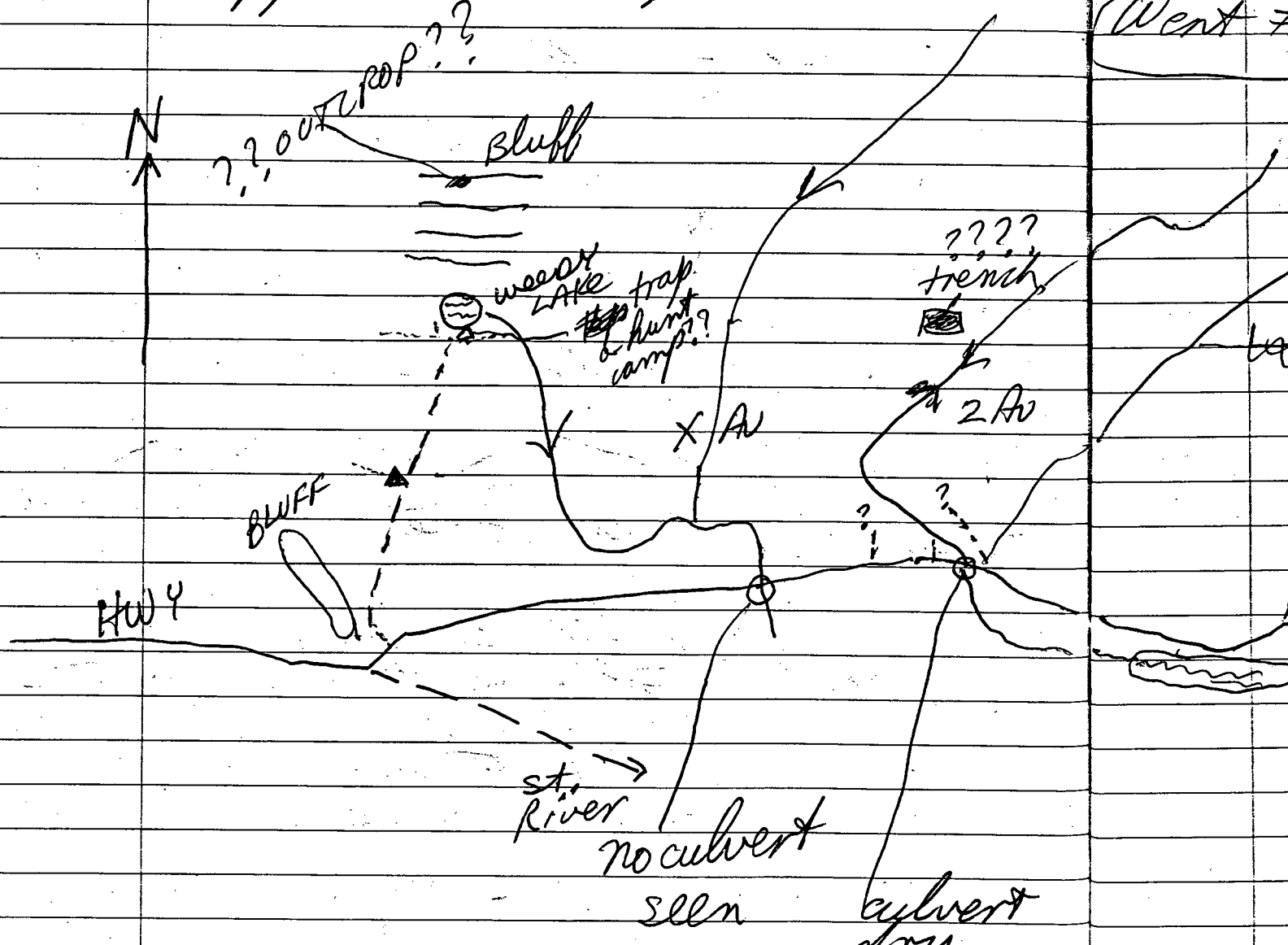
geochem Au - where is site?

2Au - how far up?

1560 - how far up

low 35 - upper 25 - only st / water in it

On
7/4
B
now F
West 7



Hot weather - so hot it
is unpleasant
+ tiring.

5

JULY 98

Drove back to WH. Saw Al

Kapty at Braeburne.

Drove thru fire at Fox Lake. -

a strange experience.

gas at Braeburn
= almost empty

704 = 202,704
-193

511 DL - Braeburn
Braeburn - WH

?

~~10~~
about 680 Km

23

JULY 98

Drove to Watson Lake.

203,430 KM

29

JULY 98

Flew to site. Good campsite
right beside a 97 silt sample.
Raining now at site. At least
no fires.

The claims to south of me seem
to be very small posts. From
air.

25 JULY 98



x WL4
x WL5

97S10T

x WL6

x WL3 - 50' N of WL2

x WL2 - 100' east of ▲

■ green blue bedrock

WL1 - at cooking spot

VS9

AV 103

SB 15

AS -

VS10

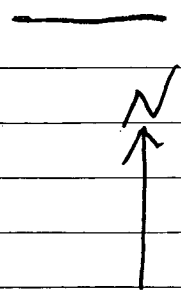
AV 1494

SB 17

AS -

25

JULY 98



Fault

5000
mt

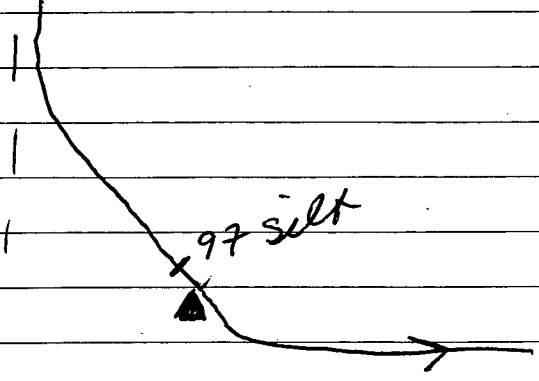
marsh

very gentle
slopes

97 silt

103
15
—

494
17
—



26 JULY 98

soils = yellow brown
where noted

87'
at 250' on left = mafic
volcanic

at 580' " " = " " " " " "

Holes = about 12" deep
= 75' apart on claim line
= not quite on Ridge
but close to it
= yellow + blue ribbon
eg A + 75 SE
+ lath + bl tag
put into hole or
rammed in



26
JULY 98

11 12 #2 (A)

VIVI

VIVI

X A + 75 SE

X A + 150 SE

X A + 225 SE

X A + 300 SE

X A + 375 SE

X A + ~~3~~450 SE

X A + 525 SE

X A + 600 SE

X A + 675 SE black soil

X A + 750 SE

X A + 825 SE very stoney

line

on

red in

27

JULY 98

X A + 825 SE (26 JULY)

X A + 900 SE

mafic ? Bdy
Felsic

X A + 975 SE

X A + 1050 SE

Mn stain
felsic

X A + 1125 SE

WL-7 + sulphur

rough

~~rough~~ X A + 1200 SE

WL-8 sim WL 7

~~tuff~~ X A + 1275 SE

X A + 1350 SE

WL-9 ??

VIVI

(12) VIVI

(11)

X A + 1410 (B)

(25)

(26)

X B + 75 SE

on hill edge

X B + 150 SE

going down

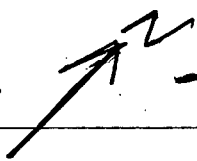
X B + 225 SE

X B + 300 SE

②5
VIVI

②6 VIVI

X B+375 SE



28

JULY 98

X B+450 SE - Some Mn

Rock look blue

X B+525 SE

= ? alteration

flat
soo??

X B+600 SE - soil dry + sandy

volcanic rock
has large flakes?
edge of bottom

X B+675 SE

w —
18-20°
eam
flat

X B+750 SE

damp clay

X B+825 SE

X B+900 SE

X B+975 SE

saw a

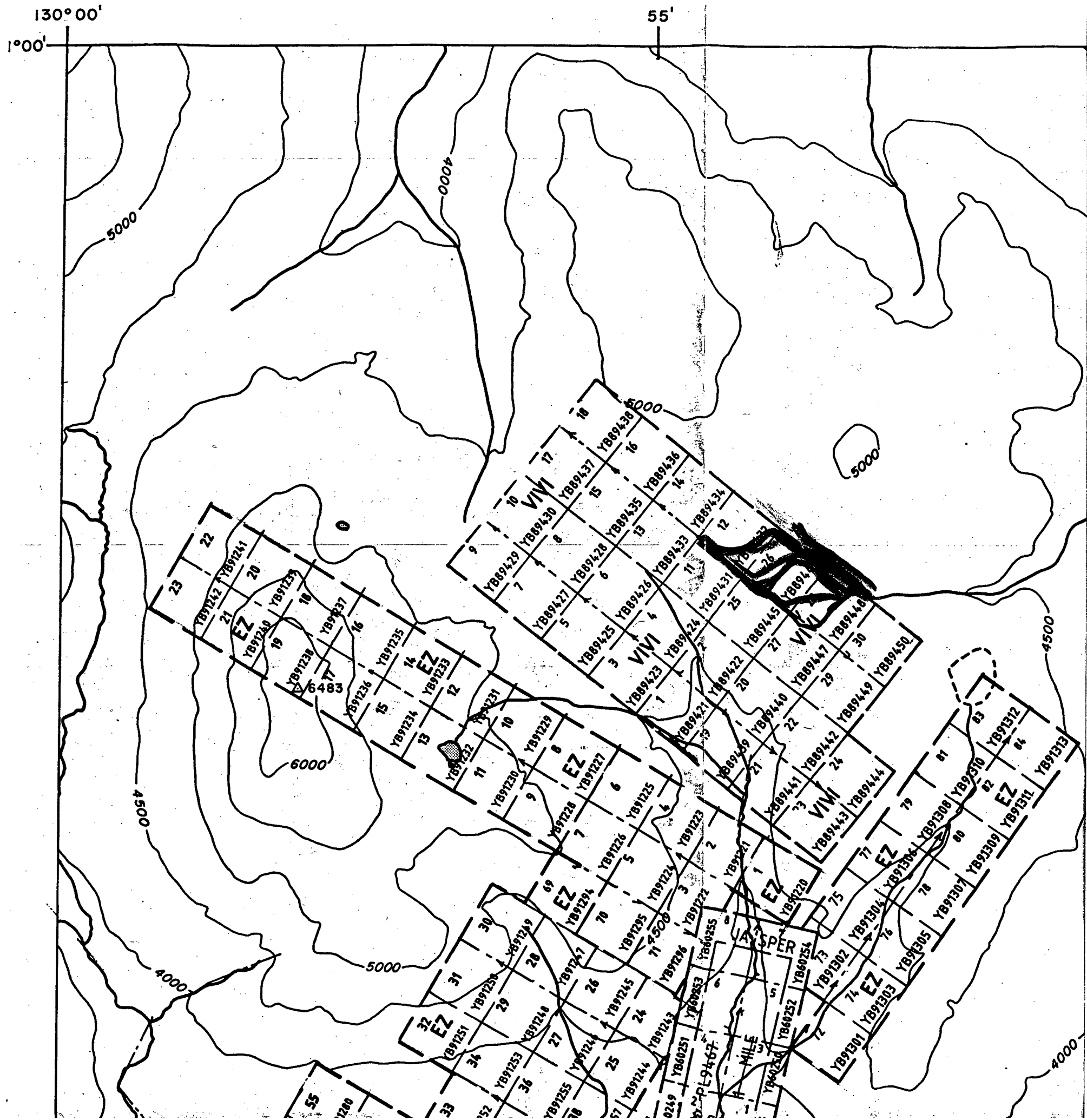
X B+1050 SE

carbon

X B+1125 SE

in morning

X B+1200 SE



25 JULY 98

26 JULY 98

27 JULY 98

28 JULY 98

↑ N

29

JULY 98

X B+1275 SE

X B+1350 SE

(25)
VIVI

(26) VIVI



(B+1425) = (C)

at (C) + after
start to

(27)
VIVI

(28) VIVI

X C+75 SE

see
maple
volcanics

X C+150 SE

X C+225 SE

X NOT DONE due to Rain C+300 SE
done 30

X C+375 SE

JULY
98

X C+450 SE

X E+525 SE

X C+600 SE

X C+675 SE - on top of long
gentle hill

30 JULY 98

Did C+ 300 SE

easy meadow to go to post

VIVV

(27)

(29)

VIVV

X

X

X

X

X

X

X

X

X

V

V

X

X

↗ N

30

JULY 98

X C + 750 SE

X C + 825 SE

Saw carbon
: AM again

X C + 900 SE

X C + 975 SE

X C + 1050 SE

after here - lot
of wet - yello lib
clay
+ few rocks

X C + 1125 SE

X C + 1200 SE

- to D + 150 SE

X C + 1275 SE

VIVI X C + 1350 SE

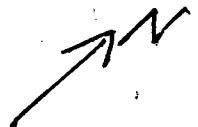
(27) VIVI

(28) VIVI
[] (C + 1410) → (D) dryer + stoner

(29) VIVI

X D + 75 SE

X P + 150 SE



31

JULY 98

X D + 225 SE }
 X D + 300 SE } more stoney than
 just before

X D + 375 SE }
 X D + 450 SE } clayey

X D + 525 SE
 X D + 600 SE
 X D + 675 SE
 X D + 750 SE
 X D + 825 SE
 X D + 900 SE
 X D + 975 SE
 X D + 1050 SE

drier
 sandy
 clay
 mixture

some no big
 rocks in hole

1 Aug 98

(last nite) ABOUT
Rain at about 10 or 11 1" +
Hard, lightning
+ thunder
not much sleep
Bags/soil all wet

- NL 14 very strange quartz
- NL 15 nice sulphides + few w (chunks)
area
- NL 16 sulphides
- NL 17 felsic volcanics
+ Chalcedony stringers
- NL 18 interesting quartz
- NL 19 quartz

* * some one has put 7-8 green
rocks on top of 2 boulders
just north of US9

T
+

meadow

AUG 98

0 mt Top

WL17

linear
20° ↗

WL16

NORTH ↑

(chunks)

x WL15

WL18
WL19

x old V59/W6 (97

?? pit (TOOK PHOTO)

Bedrock

x WL14

lot of interesting
quartz in stream!

res

in

130° 00'

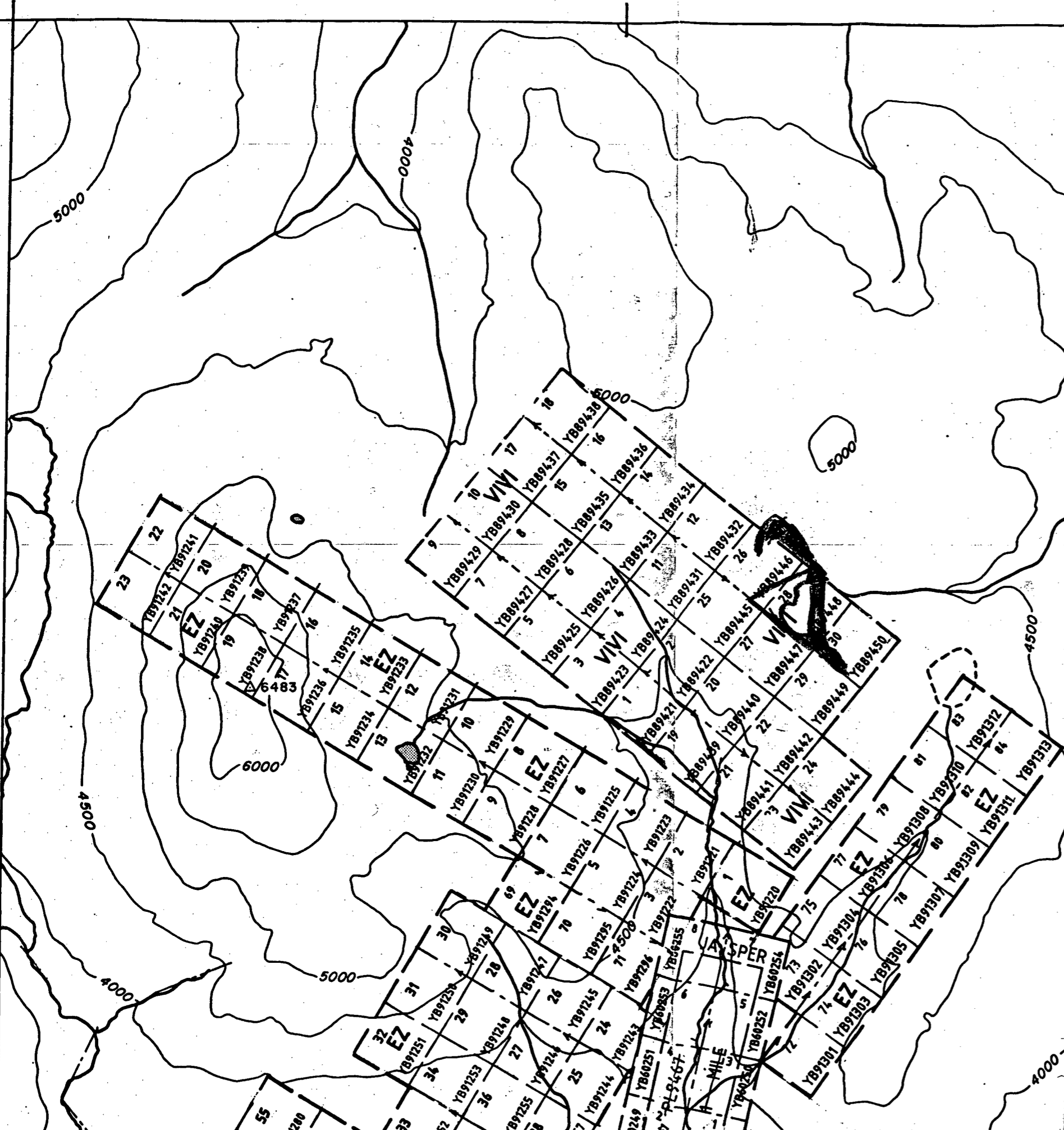
55'


29 JULY 98

30 JULY 98

31 JULY 98

1 AUG 98



D+1125 SE X  2
AUG 98

X D+1200 SE

X D+1275 SE

X D+1350 SE

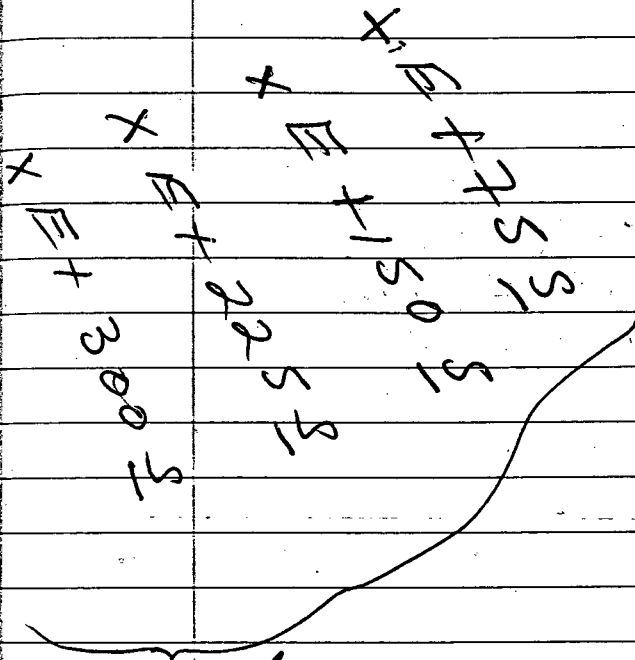
V/V/
(29)

↓ #25

V/V/
(30)

(D+1425 SE)
= (E)

X
3755 X
CH



This area is more
stoney than D's (higher)

for
130 SOUTH
380
31 NORTH
As
152

2 Aug 98

D+

E+ 3755x
 E+ 4505x
 E+ 5255x

x E+ 0
 x E+ 3005

Angle is 195°

(try to go to)

#2 POSTS

VIVI 23, 24

"FISHING" now for
Au As zone detected

i 19967 VS 7 - 130 SOUTH

VS 8 431 380

VM 8 7 31 NORTH

Au As

plus gpc sample 22 152

~~N~~ N ↑

— 3

AUG 98

X E + 600 S

X E + 675 S

X E + 750 S

195°

X E + 825 S

X E + 900 S

X E + 975 S

X E + 1050 S

X E + 1125 S

X E + 1200 S

X E + 1275 S

X E + 1350 S

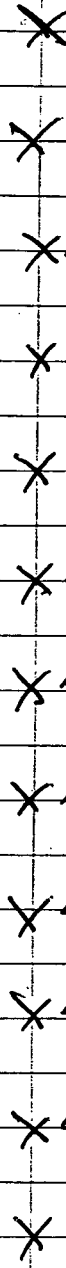
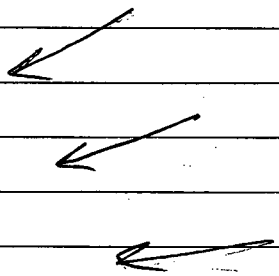
X E + 1425 S

3 AUG 98

SHALLOW
MEADOW
DEPRESSION

195°
↓

VM8 ←



~~↑~~ N ↑

2 11 98

4

Aug 98

x E+1500 S

195° x E+1575 S

↓
x E+1650 S

↓
x E+1725 S

x E+1800 S

x E+1875 S

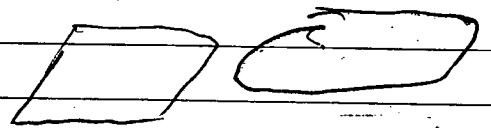
NOT quite flat
but close to it

x E+1950 S

x E+2025 S

x E+2100 S

x E+2175 S



x E+2250 S

flat green rocks in hole

x E+2325 S

~~N~~ ↑

5
Aug 98

X E + 2400 S

195° X E + 2475 S

X E + 2550 S

X E + 2625 S

X E + 2700 S

X E + 2775 S

X E + 2850 S

X E + 2925 S

X E + 3000 S

at 9⁰⁰ pm
a caribou came
by my tent - about
10-20 ft away + scared
the hell out of me!

These are
on top of
the ridge

*It seems my soil line altho
along the ridge (E line) did not
come too close to my target.

Still it should detect the
A5 Au zone, if it is here!

5 AUG 98

Rain at 6³⁰ or so

now all soils wet
again - left out to dry
- when will I
learn??

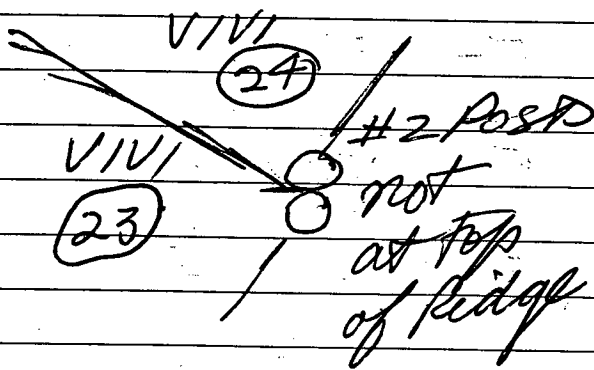
about

70°

5 minute
walk

to 2250 S

took along
time to find
the #2
POST



NOT much fun taking soil
samples under a TREE!!!

But I am happy rain came
at nite so I could do all
my planned work!

6

AUG 98

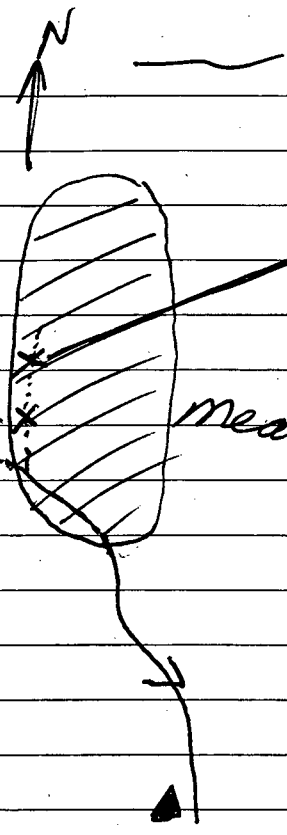
Did not go out. Camp day,
looked bad in morning - rained
hard at about 2⁰⁰ + on + off.

7
AUG 98

also crumbly
WL 20' blue zones

WS2

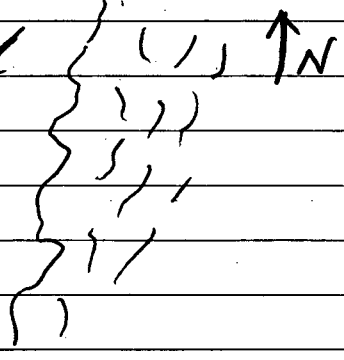
= sim.
to WS1
= silt

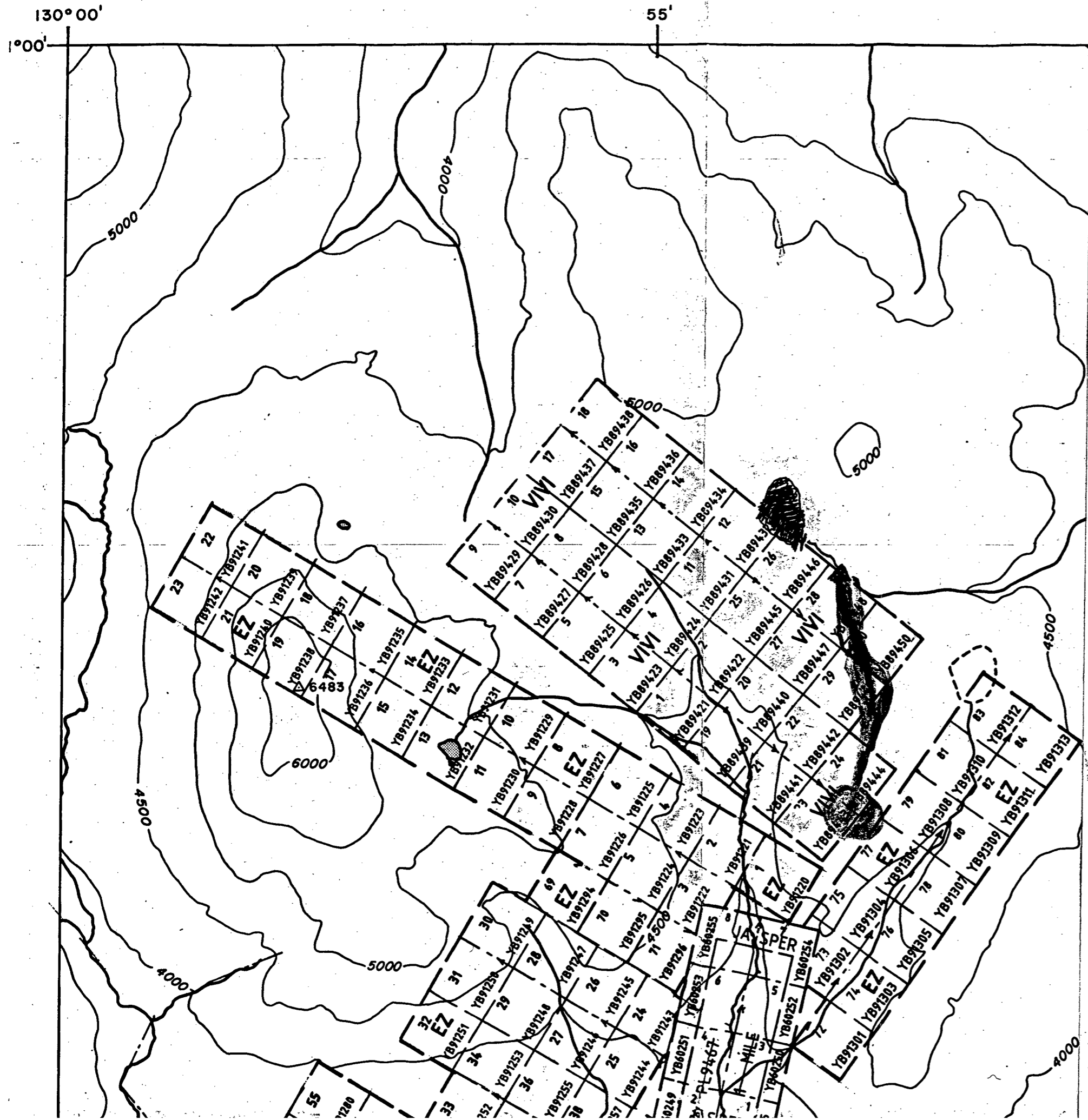


WS1 = silt
= dry rocky
erratic bed
mostly
meadow most roots
hard to
get good
sample
put thru
-8 mesh

not detect
could linear north of
bend ???

stream bed
by samples





2 AUG 98

3 AUG 98

4 AUG 98

5 AUG 98

7 AUG 98

8
Aug 98

Back in White Horse

204,420 KM

$$\begin{array}{r} 4420 \\ - 3430 \\ \hline 990 \text{ Km} \end{array}$$

Round
trip

19
AUG 98

Left WH early.

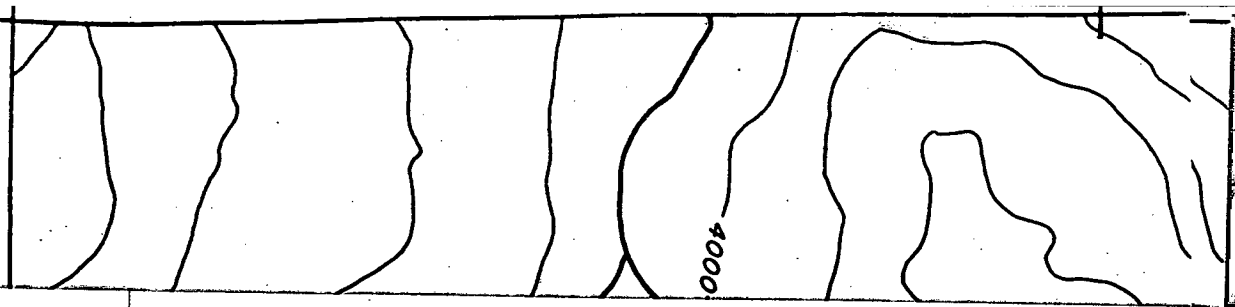
204,609.

Early came to be 1⁰⁰ pm.

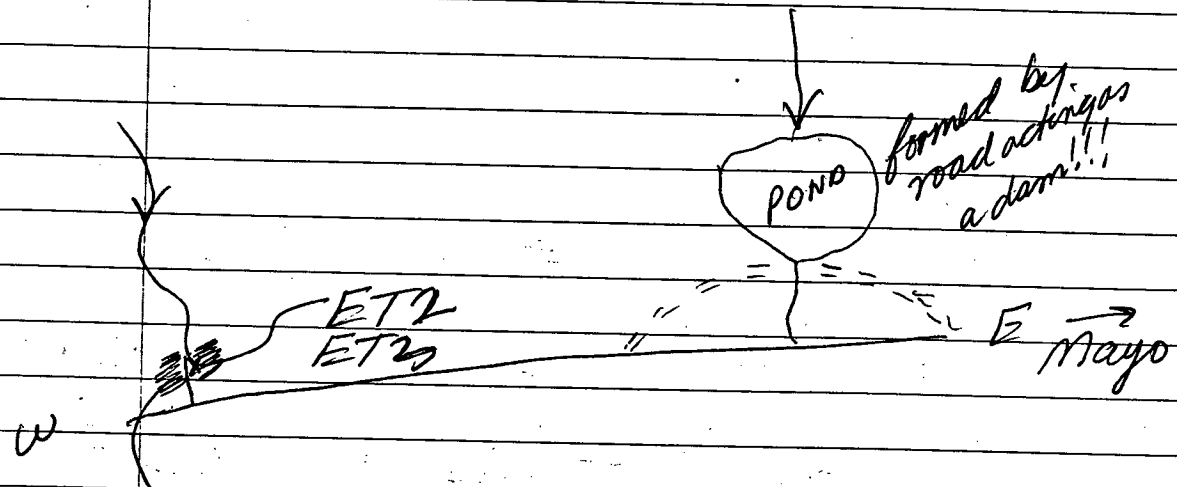
Got to site about 7⁰⁰ pm. Went to
camp at Rusty Creek. Don't
want to get stuck at site.

Willow Hills - SW of St.

Crossing has fire. Some smoke.



20 Aug 98



CANYON 30' high
 3 pipes/culverts under road
 no access to it
 Black wire (2x) up about 100'
 + thru culvert! ??? / winter / ??
 + ice / ?

ET2 = bedrock
 ET3 = quartz on foliation
 in bedrock

NB. Not much sand on top
 of canyon bedrock to west.
 Surprised!

W =

20

AUG 98

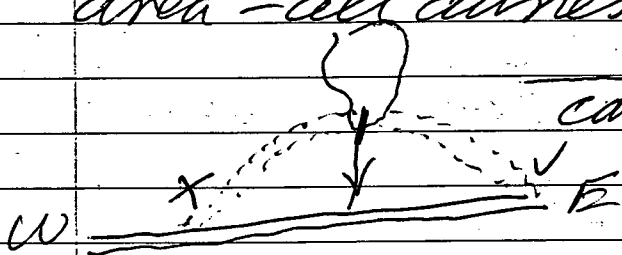
Marked off 950 YARDS from
 98 may post along road for
 next trip. By a large sand dune.
 Walked along to some places
 down 1/2 way Don ridges in area
 of lookout. All sand dunes
 - no big rocks or bedrock

Checked out 2 roads by 40. One
 is narrow + 1 tree at front.

Checked out road to river, no
 outcrop - on back roads for 2
 hours. Couple of farm fields.

Went to a site and used
 binoculars to glass hills. part
 area around Lookout. Fault goes thru
 Sandy hills or trees only.

Walked down to fish camp
 area - all dunes. Native flow says
 Past-bar mines in area.
 can get in from
 east only



Rather hot today

1-
Mayo

→
Mayo

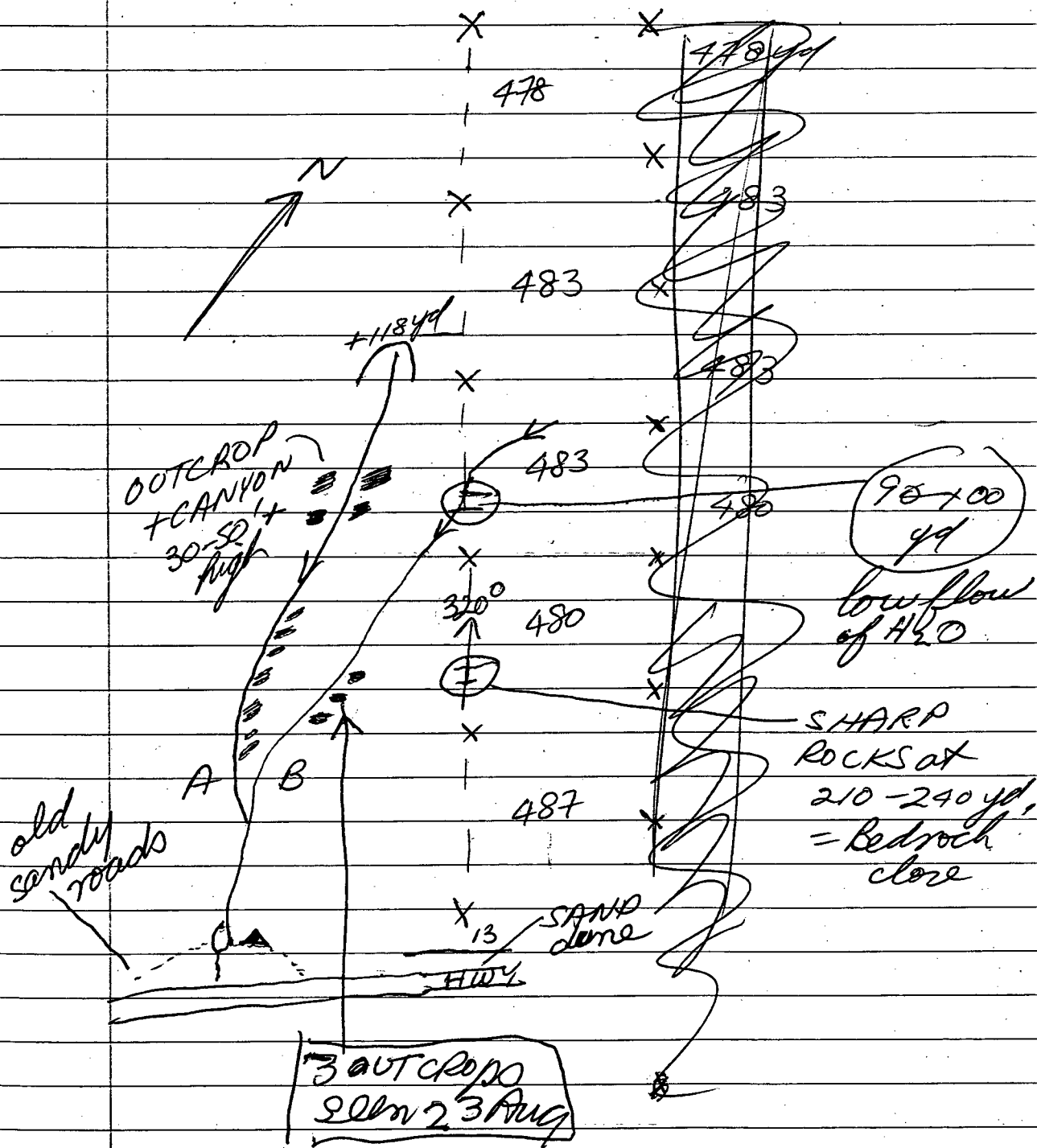
road

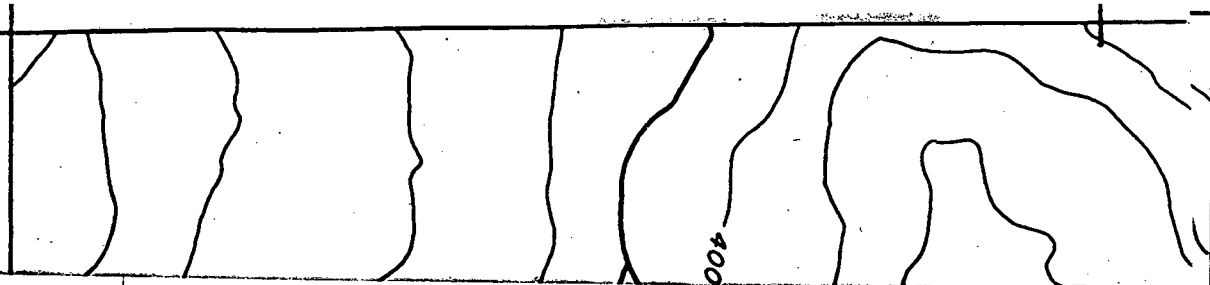
90'
ter / ? ?
?

24

21
AUG 98

Almost got stuck in side road. Sandy mostly - needed 4x4.





21 Aug 98

underground here

water A > B = 3x - 4x

water coming out of bottom of very steep sandy hill

lot of mud in bottom

steep sides

+ logs in bottom

very tough to walk on bottom

Is A stream coming off a trough like fault zone?

Enormous amt of water for a ground seepage.

Could not find old ribbon sample

This stream had best silt

FS 139276 (1990) 269 Au ppb
- 200m

- not checked out

- not mentioned in Sleeper report by Ken Galambos

old sandy road

22

AUG 98

Drizzle from 12-2, Rain from
6-8 on + off, now at 8 it's larger
drops. Last few days = smokey.

My back was a little sore, today.
So, as well, good for a break.

X Did not go out

23
AUG 98

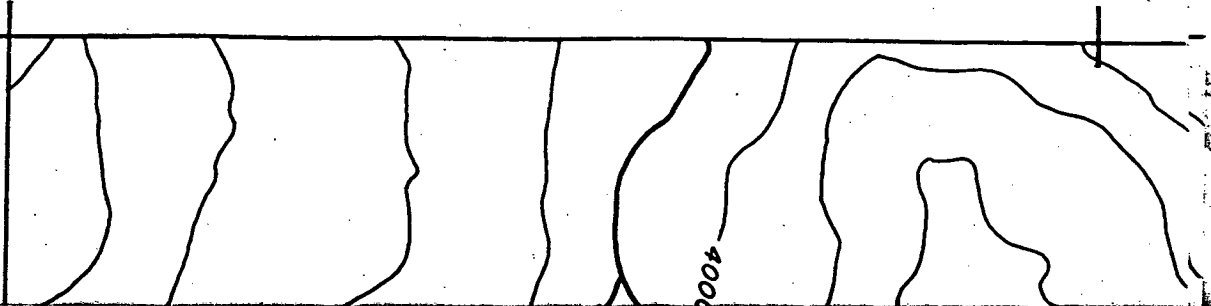
NO.1	NO.1
ET	ET
(22)	(21)
SE	SE
1500'R	1500'L
0'L	0'R
23	23
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
3 ⁴⁵ PM	3 ⁴⁵

490yd	140°
wd 9	wd 9
6 ¹⁵ PM	6 ¹⁵ PM
ROSS	ROSS
JP	JP
1998	1998
AUG	AUG
23	23
(22)	(21)
ET	ET
NO.2	NO.2

NO.1	NO.1
ET	ET
(24)	(23)
SE	SE
1500'R	1500'L
0'L	0'R
23	23
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
6 ³⁰ PM	6 ³⁰ PM

40	478
140°	
NO.2	NO.2
ET	ET
(23)	(24)
23	23
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
8 ⁰⁰ PM	8 ⁰⁰ PM

Aug
re
F
tape
??
s
lowing
wing



23 Aug 98

Saw 3 outcrops - east of stream
- put in at 21 Aug

Walked along eastern side
of canyon
can not see unless very close
bedrock

took 3 photos of it

gear left at 21, 22, 23, 24
? Bear ?

chewed up all bags
" few rolls of tape
scattered wires
+ chewed off most of tapes
over 500 distance???
did not touch my
hip chain

Bears eating orange berries
bearberry
or soapberries??
droppings - seems swallowing
whole + not chewing

Tired = good days work!

24
AUG 98

Rain + drizzle just before
noon to about 2.

Should have gone out. I + cleared
up.

Did not go out

25
Aug 98

Heavy rain 8³⁰-11³⁰ Went out from

1-9³⁰ PM
 (26) (25)
 NO.1 NO.1

483 yd
140°

140°
483 yd

NO.1	NO.1
ET	ET
(26)	(25)
SE	SE
1500'R	1500'L
0'L	0'R
25	25
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
4 ⁰⁰ PM	4 ⁰⁰ PM

NO.1	NO.1
ET	ET
(26)	(25)
SE	SE
1500'R	1500'L
0'L	0'R
25	25
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
9 ⁴⁵ PM	9 ⁴⁵ PM

NO.1	NO.1
ET	ET
(28)	(27)
SE	SE
1500'R	1500'L
0'L	0'R
25	25
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
8 ³⁰ PM	8 ³⁰ PM

NO.1	NO.1
ET	ET
(28)	(27)
SE	SE
1500'R	1500'L
0'L	0'R
25	25
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
7 ⁰⁰ PM	7 ⁰⁰ PM

no photo
of last
post

east
station

was
site

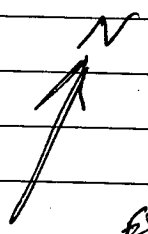
was
site

25 Aug 98

150°00'

55'

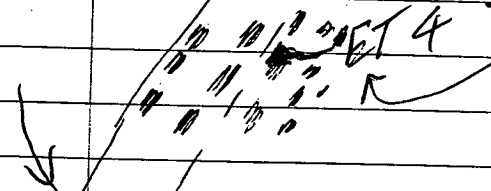
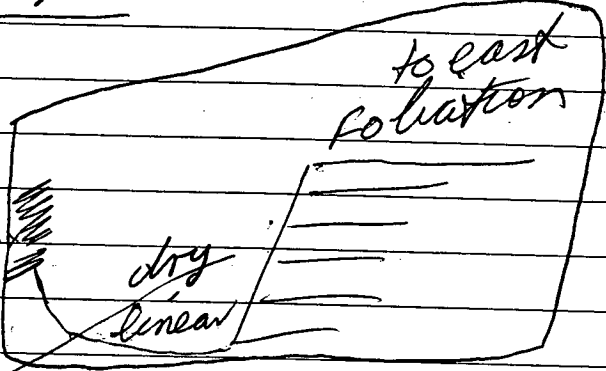
SLUMP area 25 400' across ^{Foot} few photos of it



ET 4 = loose bedrock chunk

ET 28

ET 27



100 2 Froughs before creek + dry linear

HWY

? Hard to tell where I was + little dark + late at nite

26
AUG 98

(28) (27)
ET ET
NO.2 NO.2

NO.1	NO.1
ET	ET
(30)	(29)
SE	SE
1500'R	1500'L
0'L	0'R
26	26
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
3:15 PM	3:15 PM

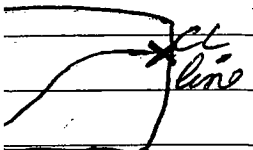
140° 480 yd

NO.1	NO.1
ET	ET
(32)	(31)
SE	SE
1500'R	1500'L
0'L	0'R
26	26
AUG	AUG
1998	1998
JP	JP
ROSS	ROSS
6:15 PM	6:15 PM

NO.2	NO.2
ET	ET
(32)	(31)
JP	JP
ROSS	ROSS
8:00 PM	8:00 PM

photo

rock??



linear
along
about
350 yd
guess

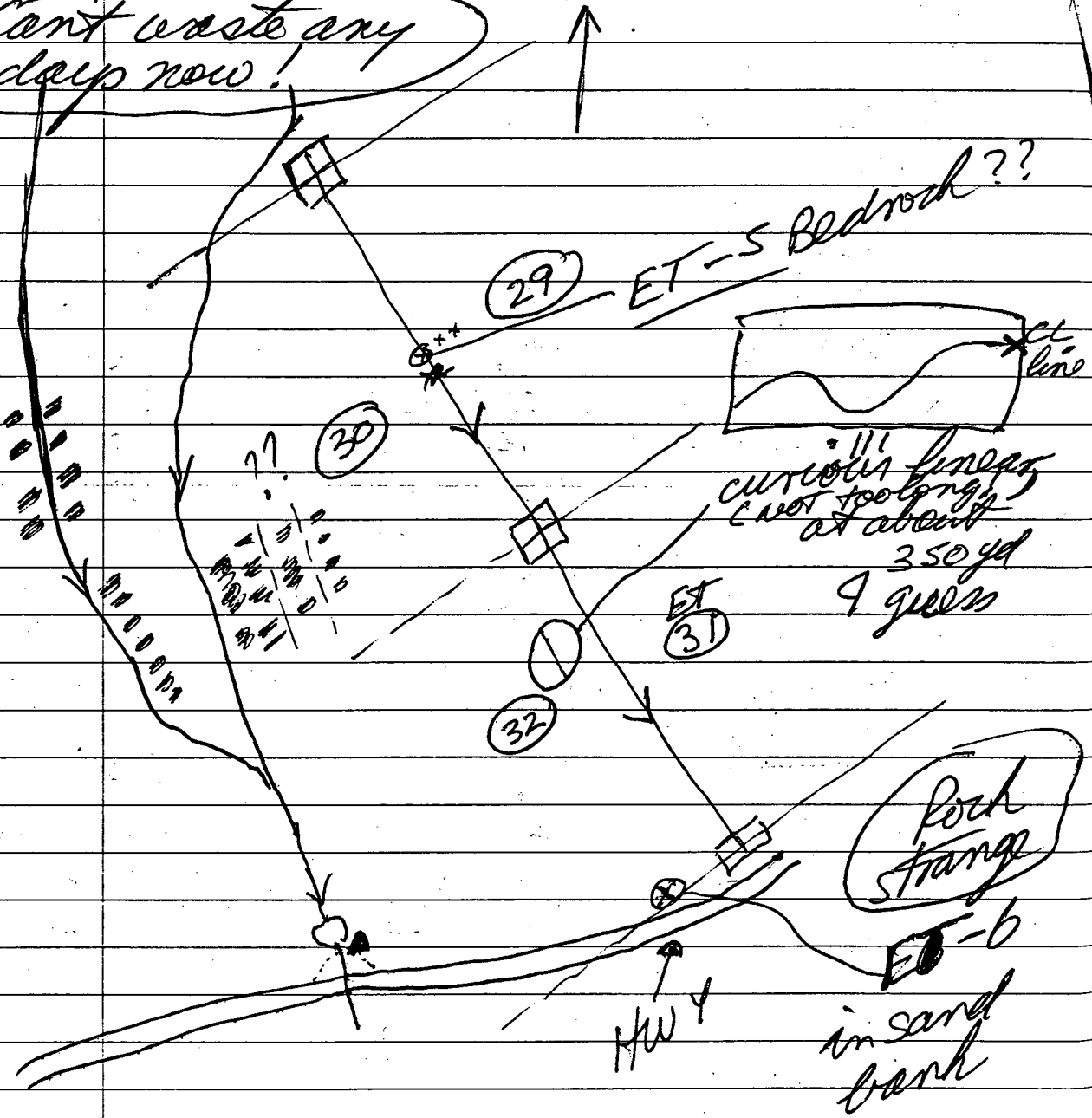
Rock
fringe

ET-6
sand
bank

487
140°

went out at 1:30 - Lot of Drizzle 1 got N better later

! Can't waste any day now!



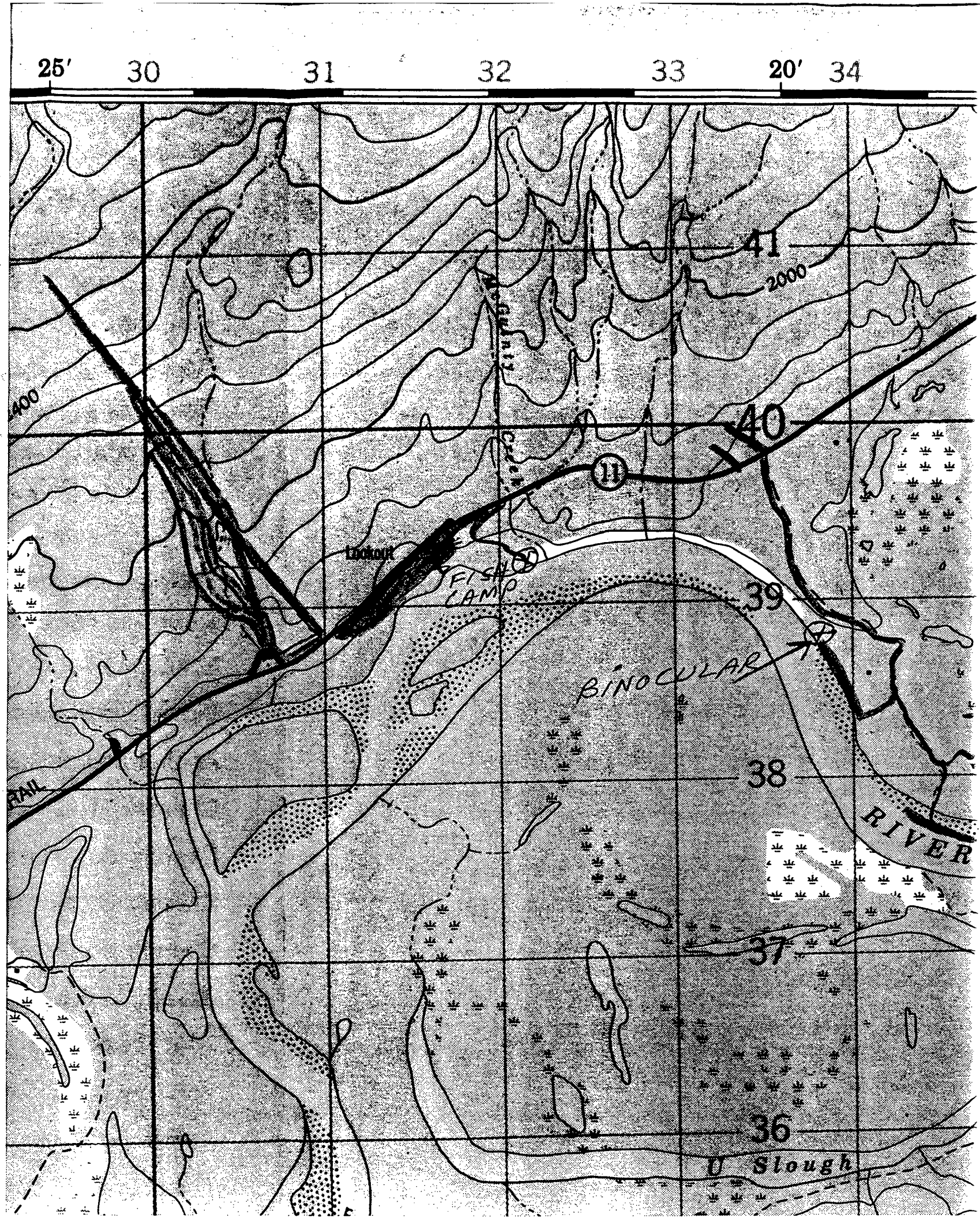
—— 20 Aug 98

—— 21 Aug 98

—— 23 Aug 98

—— 25 Aug 98

—— 26 Aug 98



27
AUG 98

Went to Mayo.

Recorded 12 claims. Talked to
Kowalchuk, Jalam boos + Hudson Bay
geologists at Bedrock Motel.

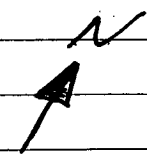
60 mile heating up snow.

28
AUG 1998

all 1-10
tagged

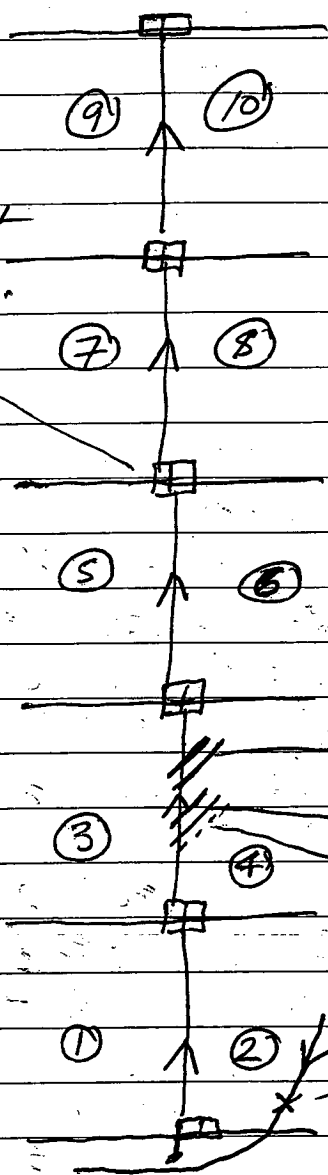
rain

threw up roll
tape - so can put
sight line thru it.



tape on most
posts chewed
up by ??
squirrels?

in past
stream
probably
went here



350/360° or so

wide = mushy = 35 yd

= McGinty Cr

1/2 wide = mushy 350°

baby fault dry
3' wide

- smaller of 2

ET 7 - in stream

- limestone
chunk

+ holes

- 10 rocks
on creek
side

- many
chunks (asst)
under gravels

NB
= 2000 - 2500' wide
= 5 linear!!!!
= good exp.
target

S

NB

28 Aug 98

Could not find road
Cold, windy, no rain
morning mist + foggy
last nite 4hr. heavy rain

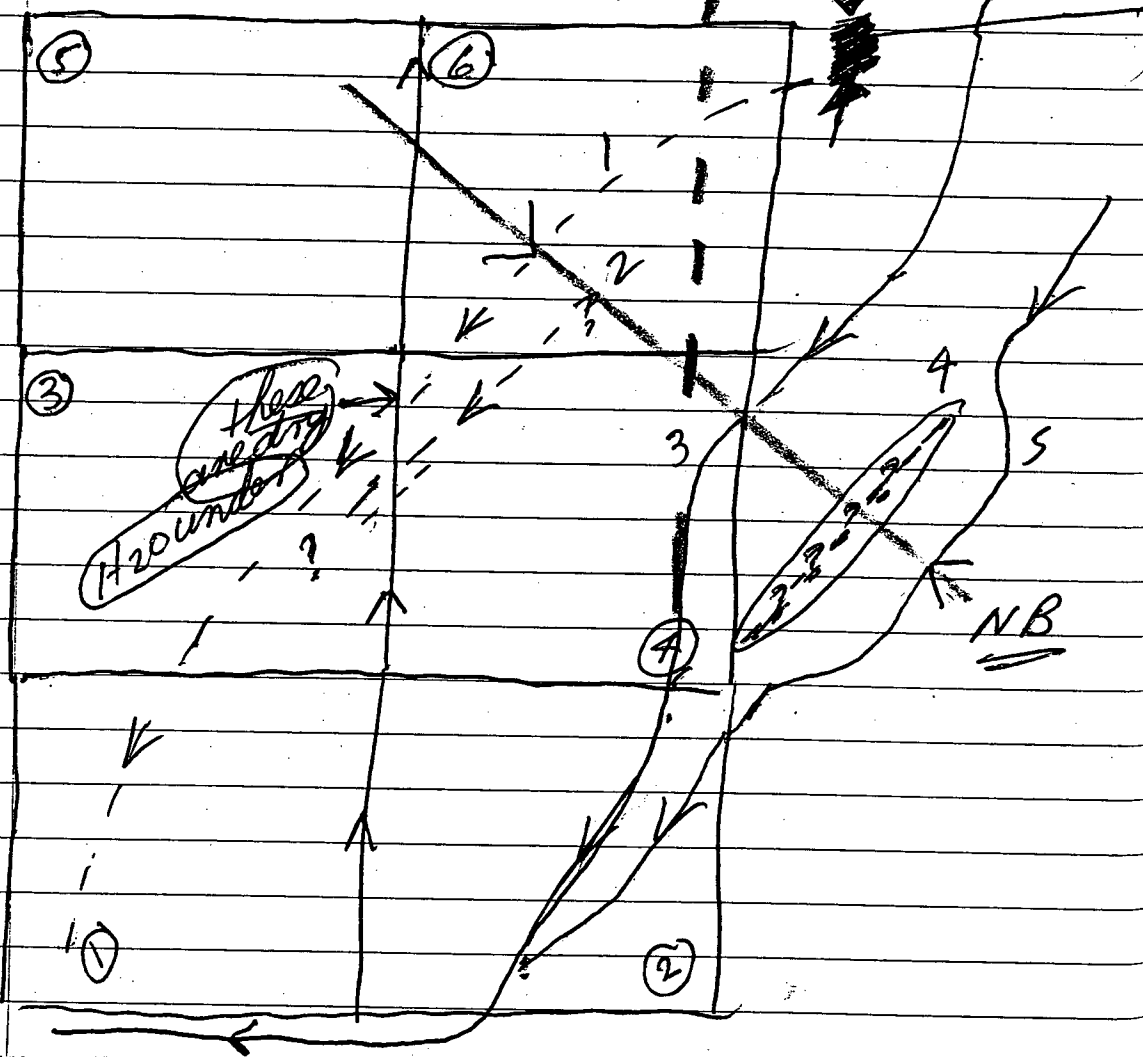
all
TAGge

Did not see a PLETHORA of
back rocks!

three
tape
soul tin

went on compass
line NE of claims
NO Bedrock

5-10 claims = just all flat
+ or sloping
? FAULT?



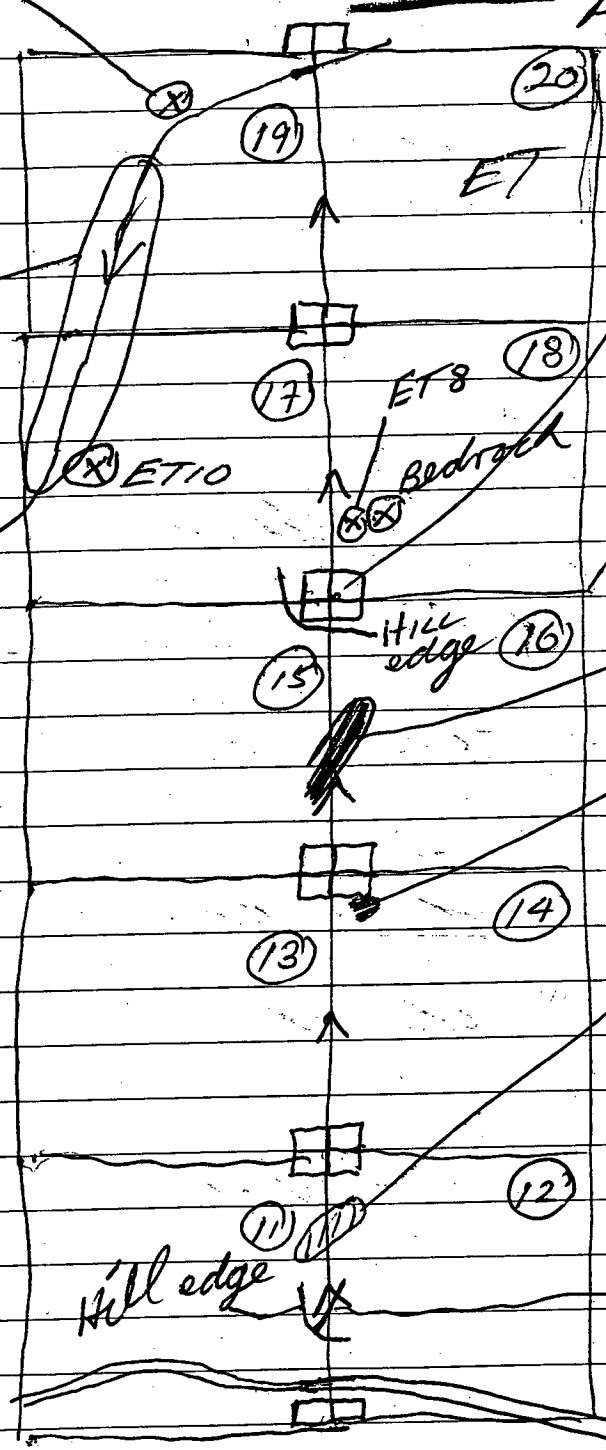
in
street
prob
went

= 2000' - 2
= 5 lines
= good

29
AUG 98

ET 9

steep v walls
this part
of stream
= 350°



put
flagging
in tree
= for soil
line

50+
linear
but 350°!!

a very
saw large!
Black
Bear

??????
DAMP SPOT

long
100-125'
✓ 6' dry
bottom sand
Baby linear
but 350°!!

HWY

P
P

stream!

29 Aug 98

20 170

ET 8 = 50' east of line
= bedrock about 400' up
hill
≈ same as ET 8
marked 4/2
2 ribbon

steep
thin
of stream
= 35'

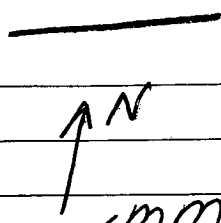
ET 9 = limestone
1" wide
in moss ???
no other rock close by
* limestone also
→ (more solid) in stream by
sim. "clay pigeons" culvert

ET 10 = bedrock ≈ 200' east of stream!
= there 120° back to
50+ linear
≈ ET 8 ???

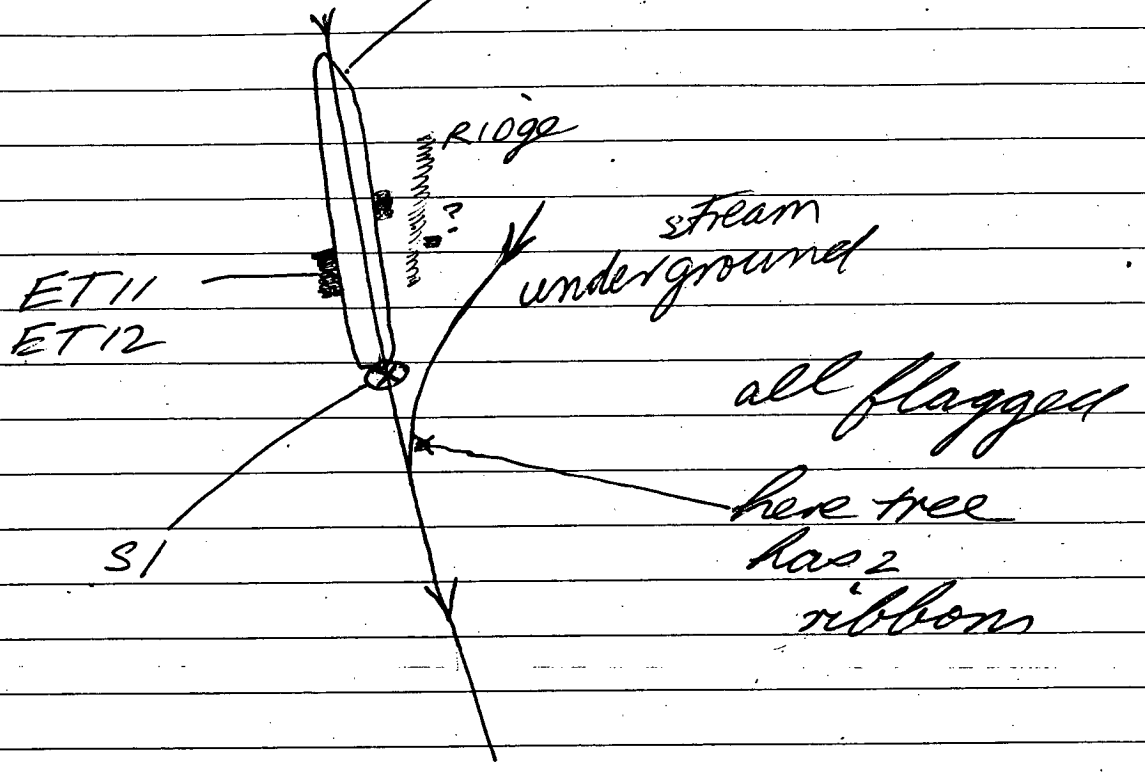
ALL ET 1-20 now tagged
did not see
road.

Rain + wind AM
PM cleared up

30
AUG 98



mm1 = moss mat



m

down

y

0
0

30 Aug 98

later
2
can
be

mm1 = moss mat
= 2 bags, half full
= really hard to get
enough for -200 m
test

compared
for
future

S1 = silt
= 2 full bags
= on a bend of stream
where water slows down
not many good places

= limestone outcrop

ET11 = at area 15' x 3'
= bag of chips - randomly

ET12 = big chunk.

Both have imprints of leaves
or twigs

31

AUG 98

Rained most of day. Went
to Mayo, to see Vicroyon
Wayne Au prospect (left) + then
Elsa + Keno.

Did not go out.

SEPT
~~1998~~ 98

Today I am not too sure
where I went?! Area is flat
+ featureless for most. PN

DAM

one as
4 (ET13)

white
stone
ices
road

rh

walking back fast
= 30 minutes

OLD
ROAD??

small
dry linear
350-360°

FAULT 60°

small
4 wheeler
trail

CUT
LINE

west

Mayo

NB I went to this area
because a silt was not done
here + I wanted to get one -

1 Sept 98

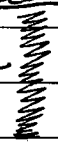
Bedrock

ES1 fast H₂O
slow behind
rock

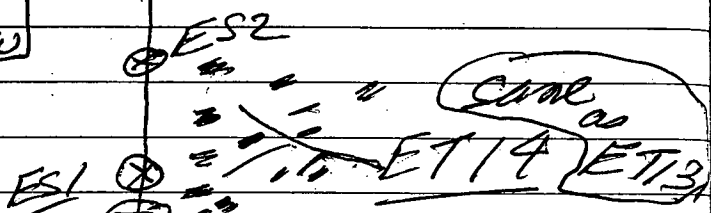
lot H₂O
350-360°
stream

ES2 slower
where deeper
→ slow + shallow

ET13



grab
of chips
on Bedrock



Trail white
+ limestone
pieces
in Road

small
concrete

- IRRIGATION DAM

JULY 5 1987

BOB Leckie in concrete

SWOT ? ?

lot of work
here!

- 5-6" white irrigation
pipe all under ground
along trail

1/2 = ~~high~~ / pressure - I guess!
TAP

ET13
20-25
high

200'

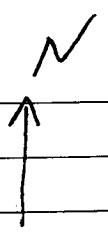
stream

ET14

west

silt = 2 bags each

2
SEPT 98

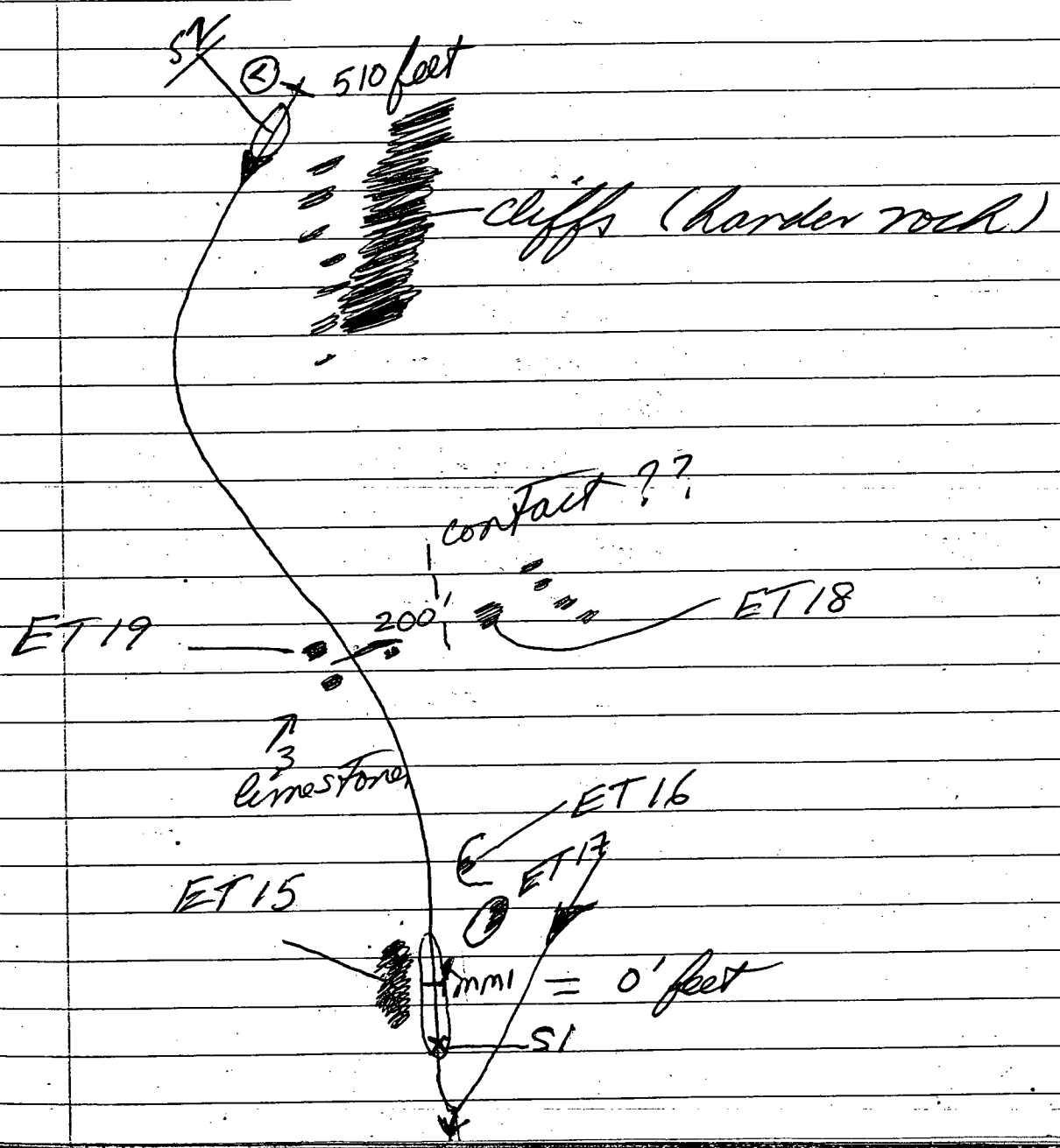


00'
24
sharp?
and layers
many

3
15
16

76

of



2 Sept 98

SZ = 2 silt samples about 500'
= slow flow below fast area
= saw black sand

ET 15 - hand picked heavy ^{? or shaly?} - sand layers
limestone pieces - some greeny

ET 16 - grab

ET 17 - chip 16" green / ??
- heavy dense
- smell ??? when hit

hardness ET 17 > ET 16 > ET 15

ET 18 bedrock - some above ^{similar} =
soft + could be pulled
apart

ET 19 limestone outcrop
1 piece

at ET 16 / ET 17 R13 8576
found 2 flag type

went up on to hill to west of
ET 15
no outcrop.

ET

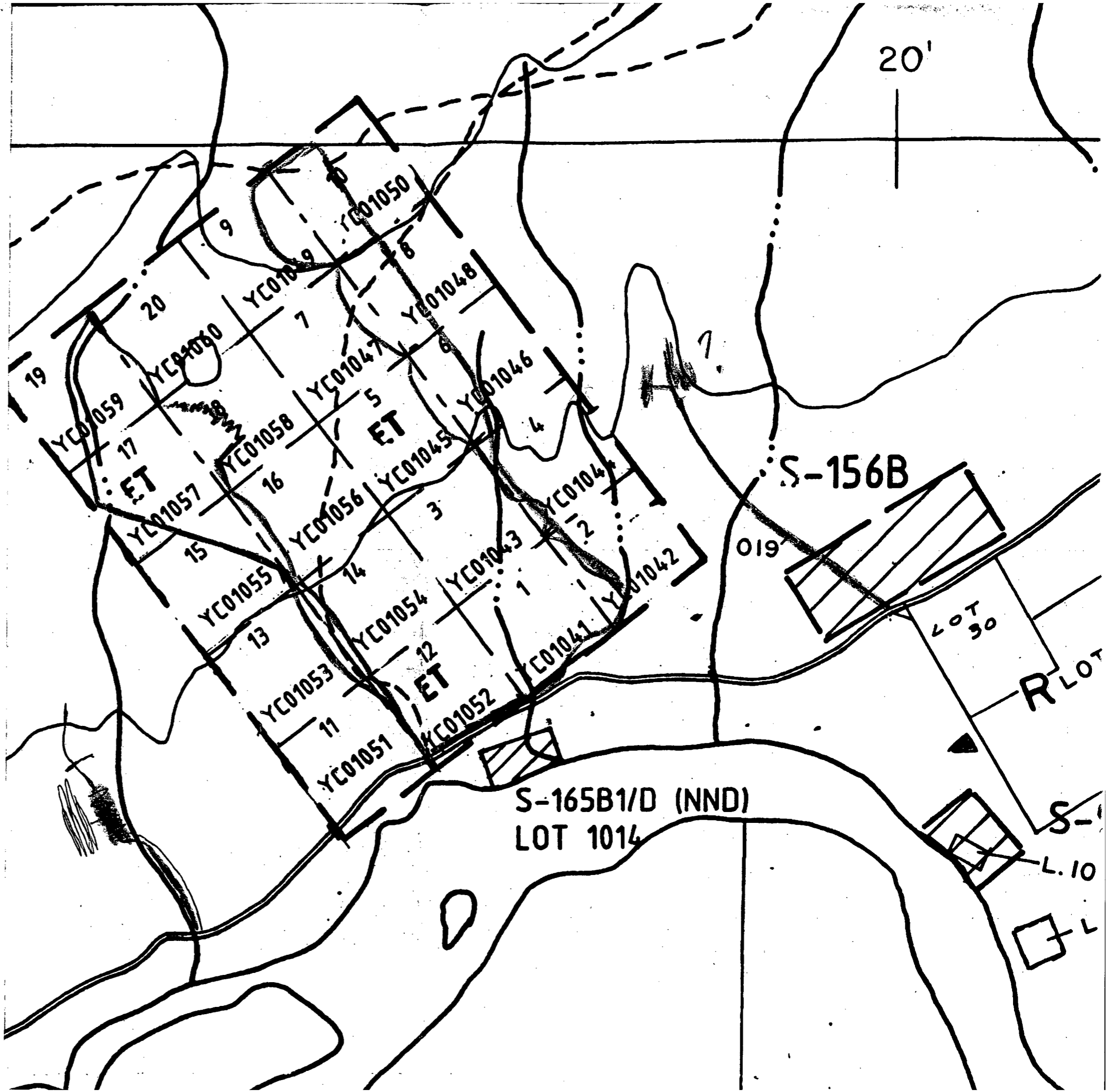
28 Aug 98

29 Aug 98

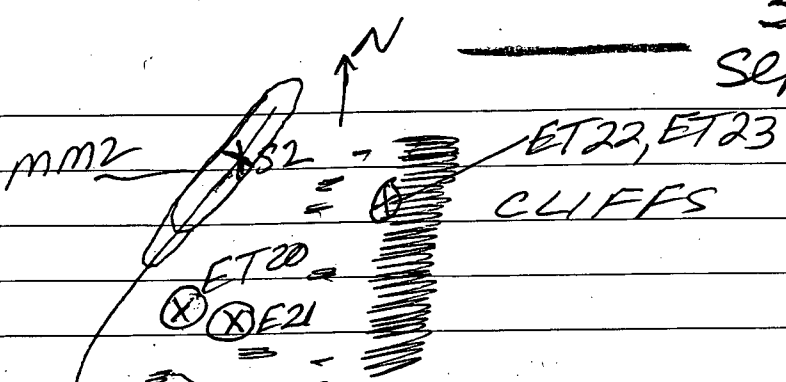
30 Aug 98

1 Sept 98

2 Sept 98



3
SEPT 98



ET22, ET23
CLIFFS

ET20
ET21

2 large rough bullquartz

tree
etc
nd them

Bear chewed
up my
plastic
bag ? ? !!
- again -

|||||

3 Sept 98

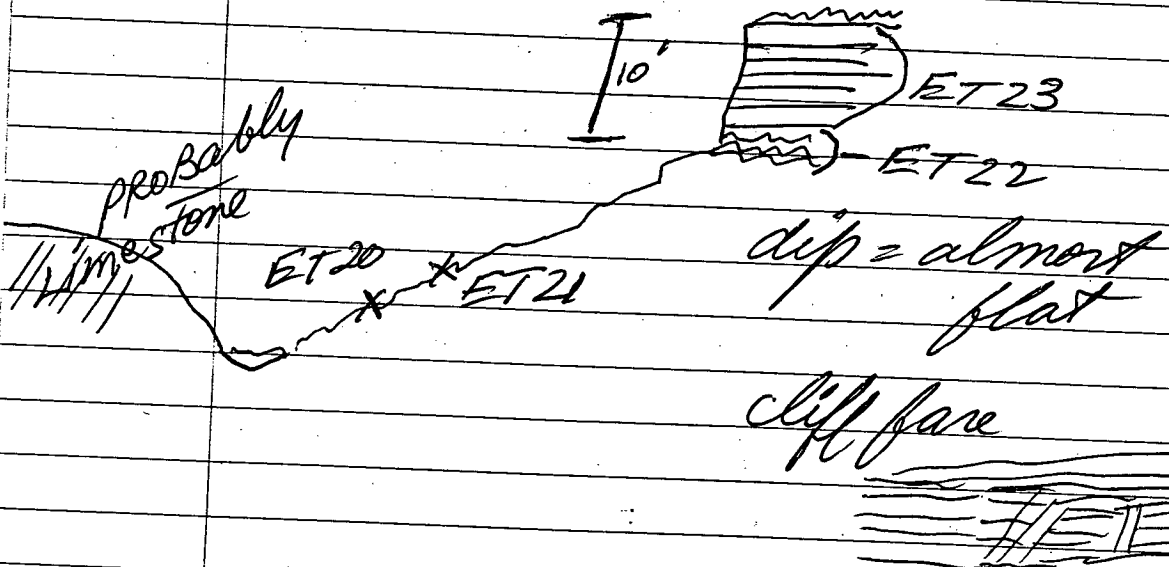
MM2 - moss mats
- took a long, long time
- 2 bags not full
hands + feet frozen

ET 20 - grab bag under fallen tree
red brown zones
white
SiO₂
fractures - prob carbonate
- 12-15' from creek
- bedrock ?? or slide

ET 21 - just above
- lot of red brown stains
- bedrock

ET 22 - weaker than top
= about 2' wide - can bend them

ET 23 = harder + above



4

SEPT 94

Went to Mayo to call
Galambos, MRA, Kowalski +
Vicroy. Some new insight
into area. Good day.

Did not go out.

5
SEPT 98

MM3+S3 +

not a diff
- smaller
pieces

at all

while at S3
an animal
chewed up all
my plastic
bags / rocks at
S2 !!!

MM2
Pail cracked + S2 +
in bottom

ET 25-27

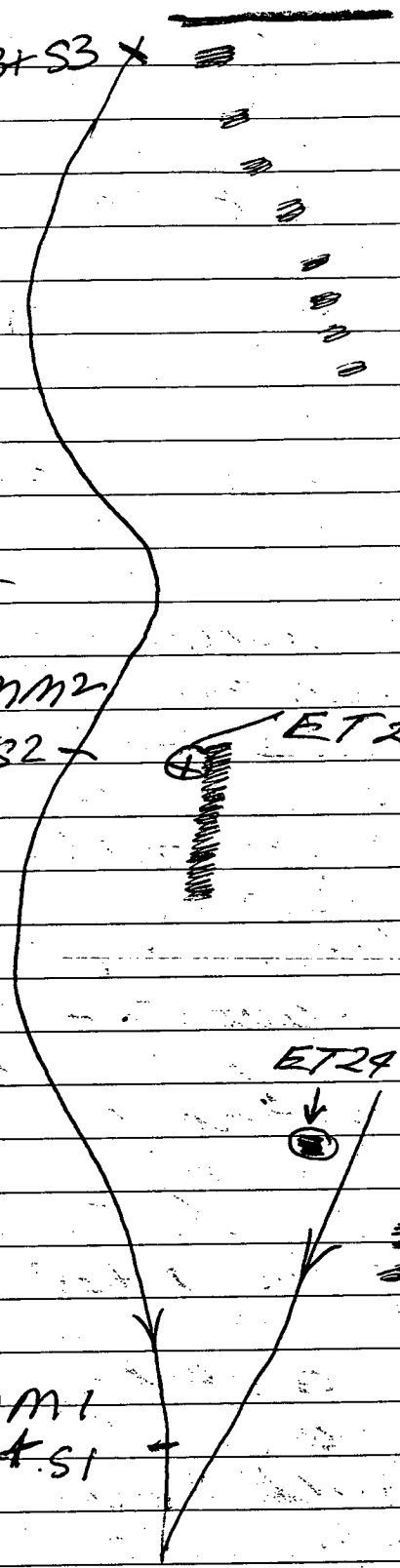
+ soft

ET 29

stone

MM1
+ S1 +

rep
as

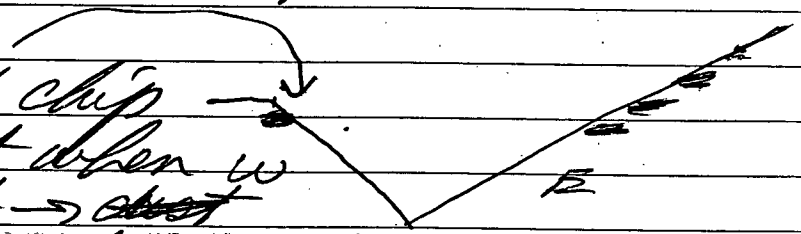


5 sept 98

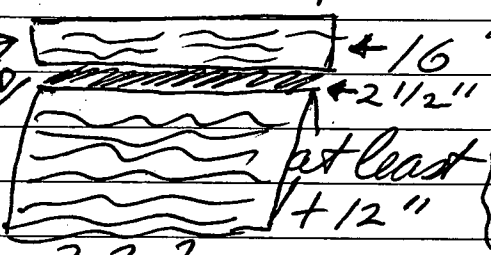
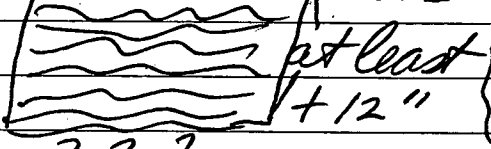
S 3 - at 329 yd - 987 feet
 - wider creek
 - good flow + shallow
 - small pebbles
 - 2 bags

MM 3 - 2 bags - moss mats
 - hard to get any silt at all

ET 24 - 14" chip
 - part when w hit → ~~chip~~ dust



x cliff
 grab }
 ET 27 bags }
 cracks }
 * 10' (?)

ET 25 →  + 16" + areas
 chip HARD + 2 1/2" wavy
 ET 26 →  + 12" some limestone
 some selected pieces + quartz
 ???

Dug a small hole to see how deep wavy areas were!

- carbonates
 - quartz areas

wk
 and
 ch
 my
 bag
 Pail
 in

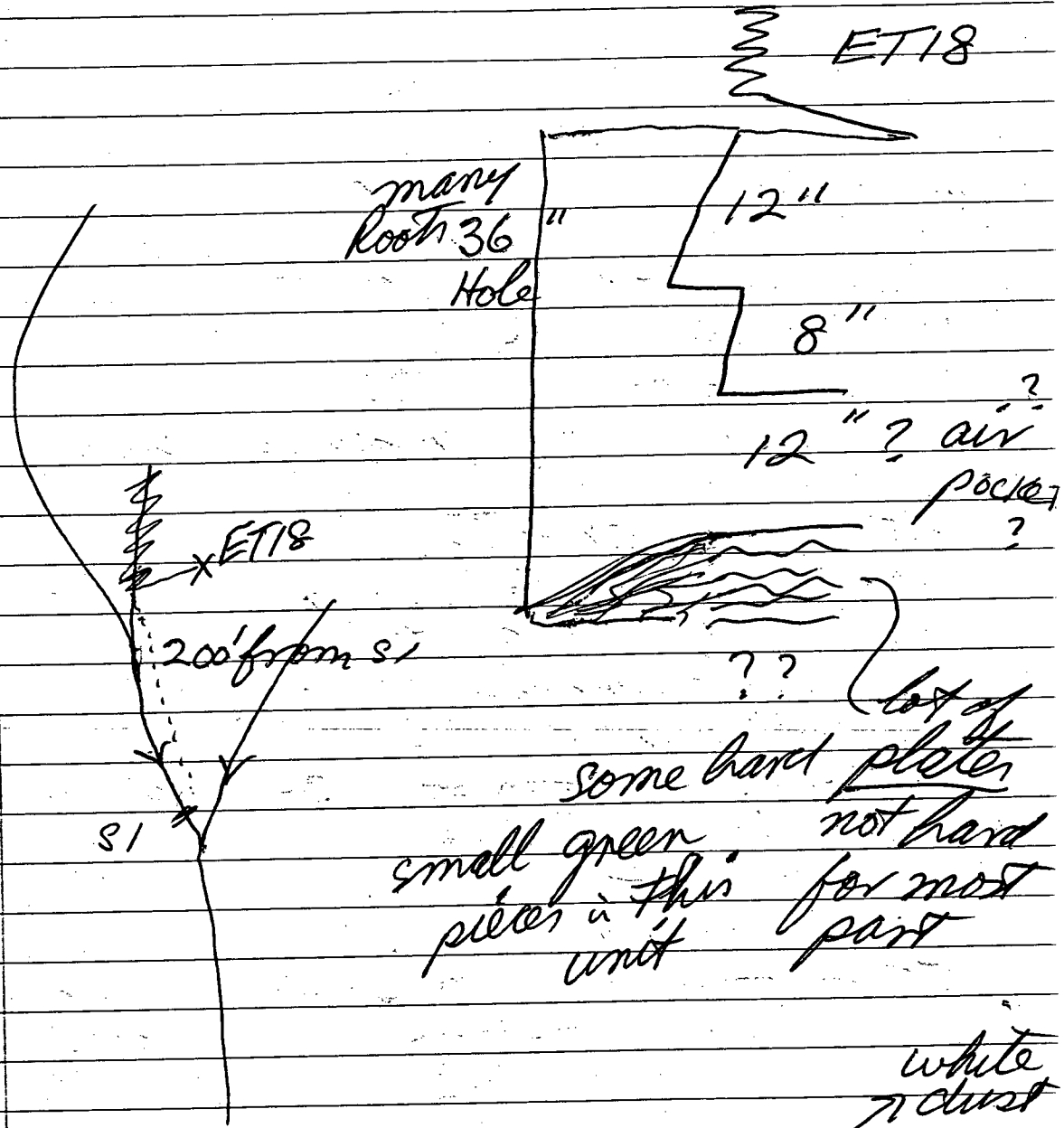
6
SEPT 98

Dismal day

east

silica

12" ?
12" ?



lot of small green pieces in this unit
some hard plates not hard for most part

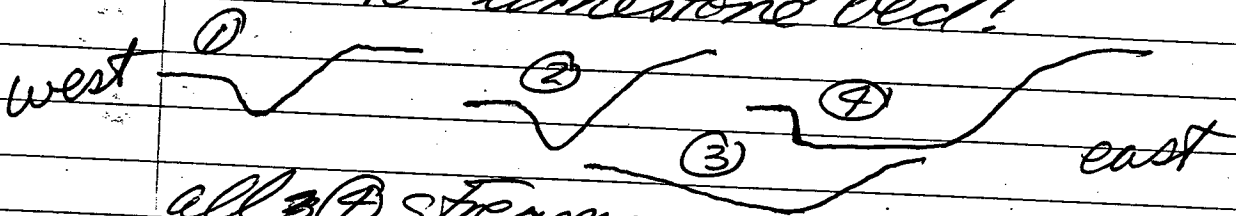
white dust

ET 40 ~ 12" top area 6" too hard to sample
3" | hard platey
3" | Reddish (ET 29)

6 Sept 98

Why did I dig hole at ET 18?

It is stratigraphically closest to limestone bed!



→ ET 28 - 12" area - greenish, silica + sulphides ***

→ ET 29 - reddish tinge - ? loc

ET 30 - greenish - prob 12"?

→ ET 31 - int brown black areas in area

ET 32 - 3 heavy green - 12"?

→ ET 33 - int. quartz + sulphides 12"?

ET 34 - heavy green [cut of] 12"?

ET 35 - large angular in hole quartz rich

→ ET 36 - large platy rock - 2 cross strat quartz? in area

ET 37 - grab bag of hard heavy pieces

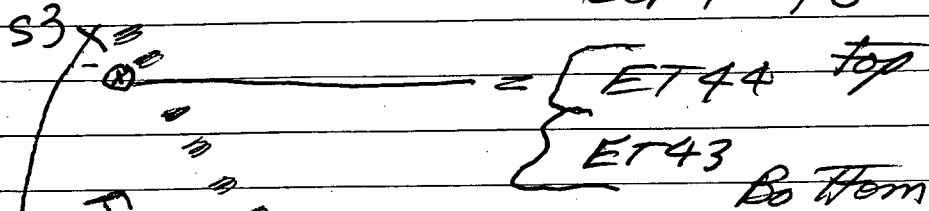
ET 38 - rough coarse pieces - lower area

→ ET 39 - minute sulphides

ET

good day in am
PM - lot of rain after 3⁰⁰PM

7
SEPT 98



FRAT AREA

last 3 miles =
no frost = watch
did not stop!

dips

ET 25-27

N-S \rightarrow 2-4°

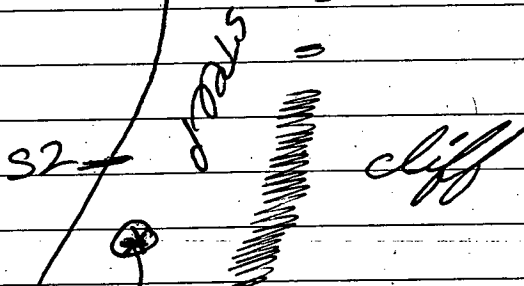
W-E \rightarrow 3-4°

ET 18

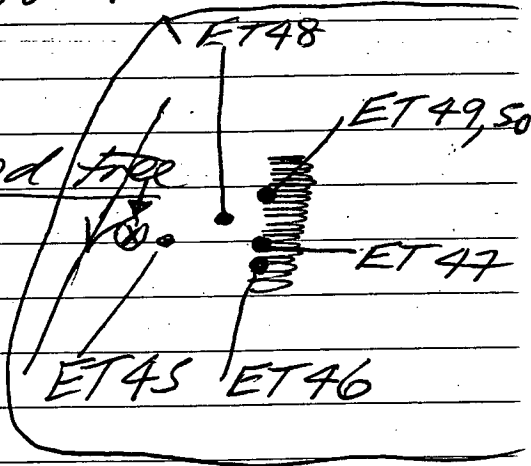
N-S \rightarrow 8-10°

W-E \rightarrow 5°

under it!



overturned tree
+ sample



S1

side

die?

in

surface

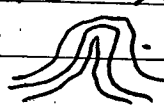
7 Sept 98

ET 41 - float angular
- close to top of bedrock hill

900
PM

→ - heavy Q/carb? ~~FE~~
cross foliation

ET 42 - sim ET 41
- very heavy + green cut it

ET 43 -  twisted
with sulphides

ET 44 grab bag of top of rock

ET 45 interesting rock
+ other zones
+ reddish areas


dip
ET 25

ET 46 in cavity
angular + Q
+ calcite?

N-S =
W-E =


long + angular
from hole???

ET
N-S =
W-E =

ET 47  Q + slickenside

under

ET 48 chip of boulder

ET 49  quartz "wedgie"
- in hole in
Bedrock

ET 50 3 "wedgies"
- strange surface

8
SEPT 98

Foggy in AM + slight drizzle.

10-3 - lite to heavy rain. Now at
4⁰⁰pm plus = cleared up - Called Kow.

+KGB in Mayo!

Did not go out.

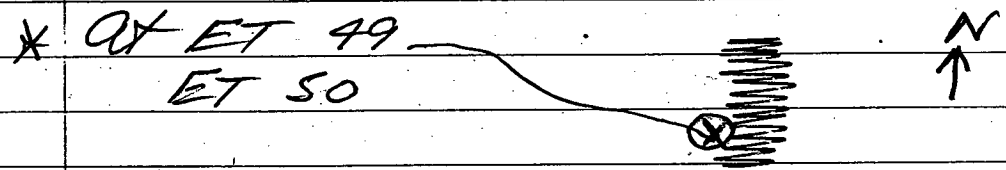
9
— SEPT 98

KGB - Ken Galambos came out to see me + to see area - he suggested area to me - past

18
5' up from S3
5' above stream

He was curious about the limestone with leaves + twigs - footprints ???
!!! he thinks !!!

less
meters



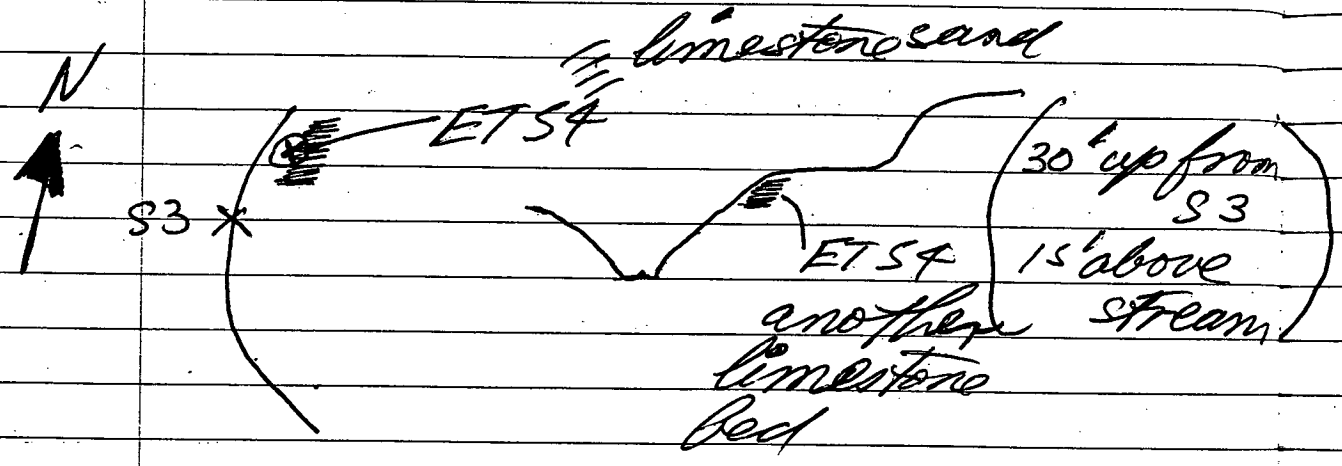
ET 51 - quartz vein at ET 49/50
ET 52 - 6' down from ET 49/50 (stream)

ET 53 - 10' up above ET 49/50 - some manganese zones

He suggested quartz (bull) should be tested. ? Disseminated? gold

9 Sept 98

Found P139033
old Noranda
Swilline - east of ET18



some twig holes
= 3 1/2" diameter

Completed ET 40 chip
(hard middle kept)
reference

3 SEPT 98

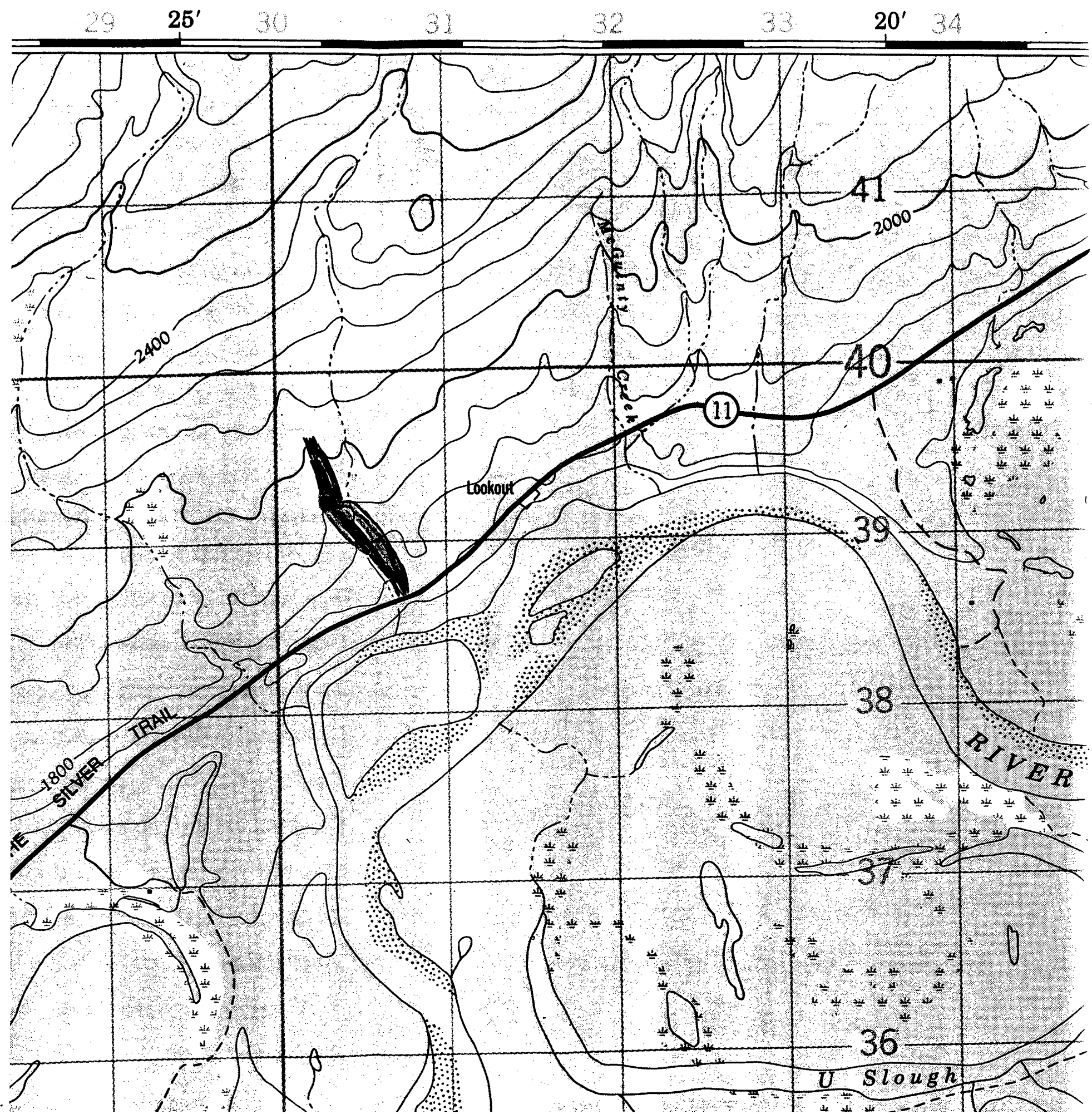
5 SEPT 98
5

6 SEPT 98

7 SEPT 98

|||||

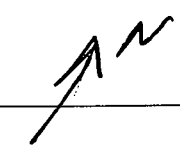
9 SEPT 98



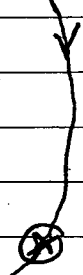
Froze
last night

10
SEPT 98

good day
today!



S6 2500'
840 yd



S5 1965'
655 yd

start!
after here sand hills

S4 1500'
500 yd

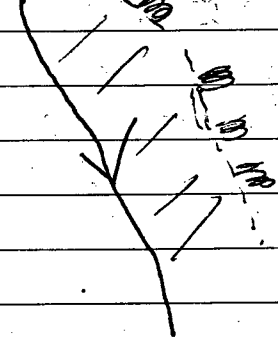
FLAT areas

LIMESTONE

ET S5

S3 before

ET S4
before



no
w
7
12"
rough
berk
side
rd
cloud

10 Sept 98

ET 55 - bedrock limestone
- grab bag of diff. types

last

S4 - silt - not fast - not slow
- small sand + stones

good
to

S5 - silt - good flow - up to 12"
- med - rocks - some rough
- no limestone chips
seen in stream
- dug up / shovel / to check

S6 - silt - 3'-6' wide
- gentle flow
- smaller stones
- no limestone seen

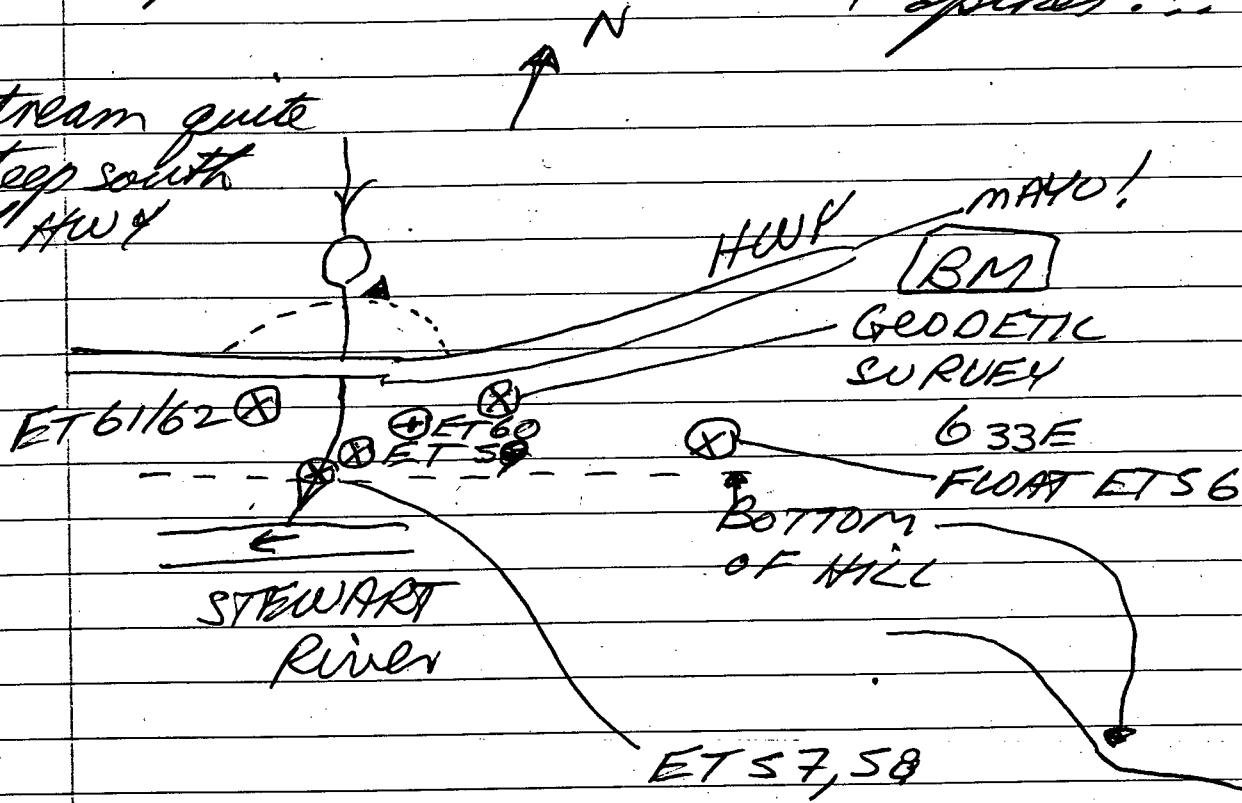
before + after S5 - eastern side
- very steep sand
hills

Bedrock east of S6, S4 (checked out)
sim. to areas
south

11
SEPT 98

These sand hills can be quite steep + have many rose hip bushes + spikes!!!

stream quite steep south of HWY



It surprised me to see bedrock at ET 61/62

Remembered now Hot Springs + B land claims block on upper Partridge or (N of McQuestion) River

veg.
fish
(45 minute)

2
!!!

than

3

11 Sept 98

ET 56 Rough float
in long area of sand + veg.
ET 57 in stream
float limestone (reddish
tinge)

stream
steep
of H

Stream has rocks up to
12" across - smooth
mostly
dug up stream looking
for 2nd limestone
- found 1 more only

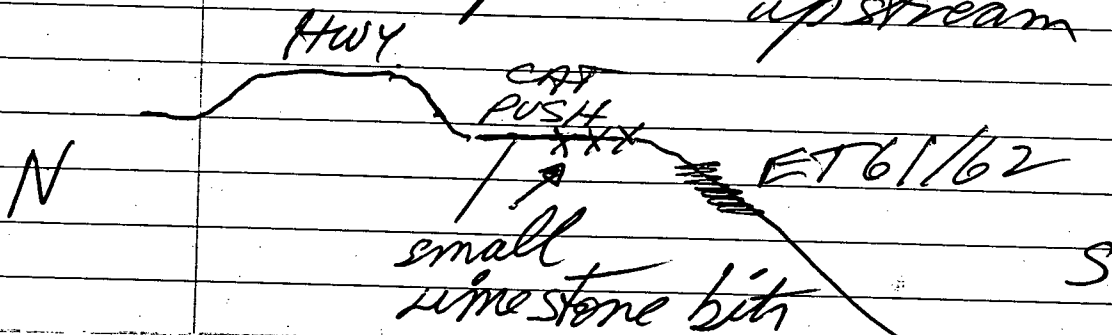
ET

ET 58 float - a veins
Round [last] + x reddish (45
minut)

ET 59 a up off stream
ET 60 green phyllite (a lot
+ lined edge (of float))

ET 61/62 Bedrock!!! Wow!!!
61 = grab bag limestone
62 = big piece - browner than
up stream

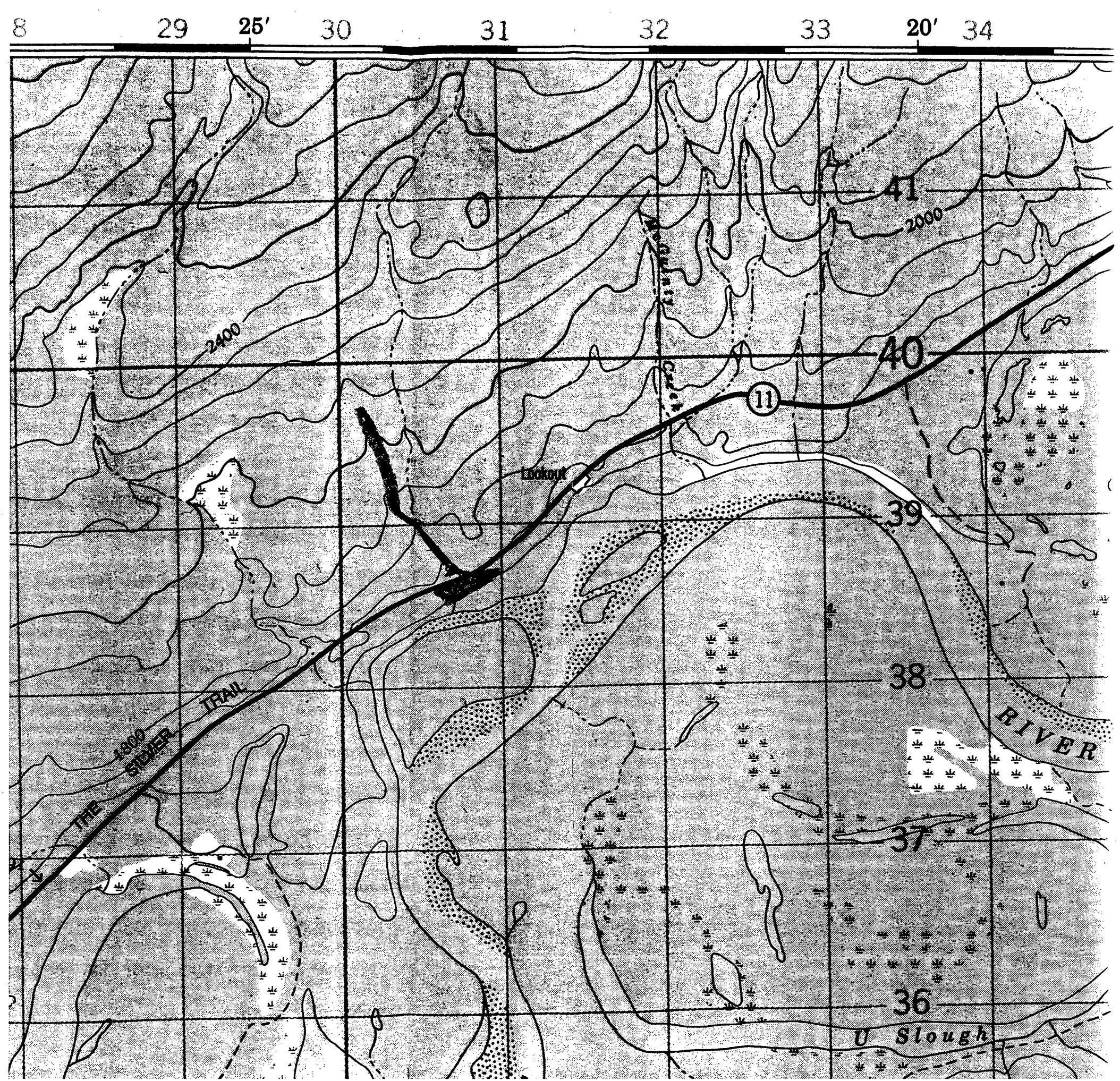
ET



ET

10 SEPT 98

11 SEPT 98



12

SEPT 98

Back in white horse.

206,000 KM

-204,609

1,391

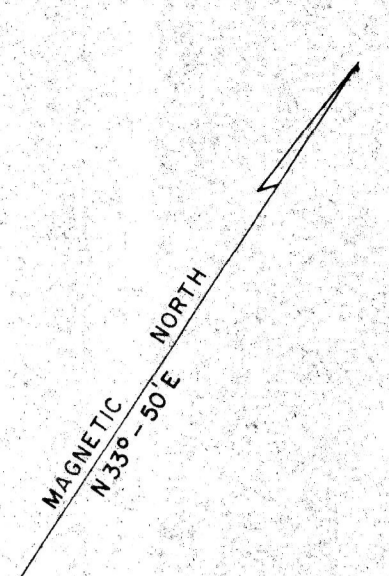
Round trip

SHEET 105N-12

NOTICE

THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

SCALE 1/2 MILE TO 1 INCH
FT. 1500 3000 4500 6000 7500 9000 10500 FT.

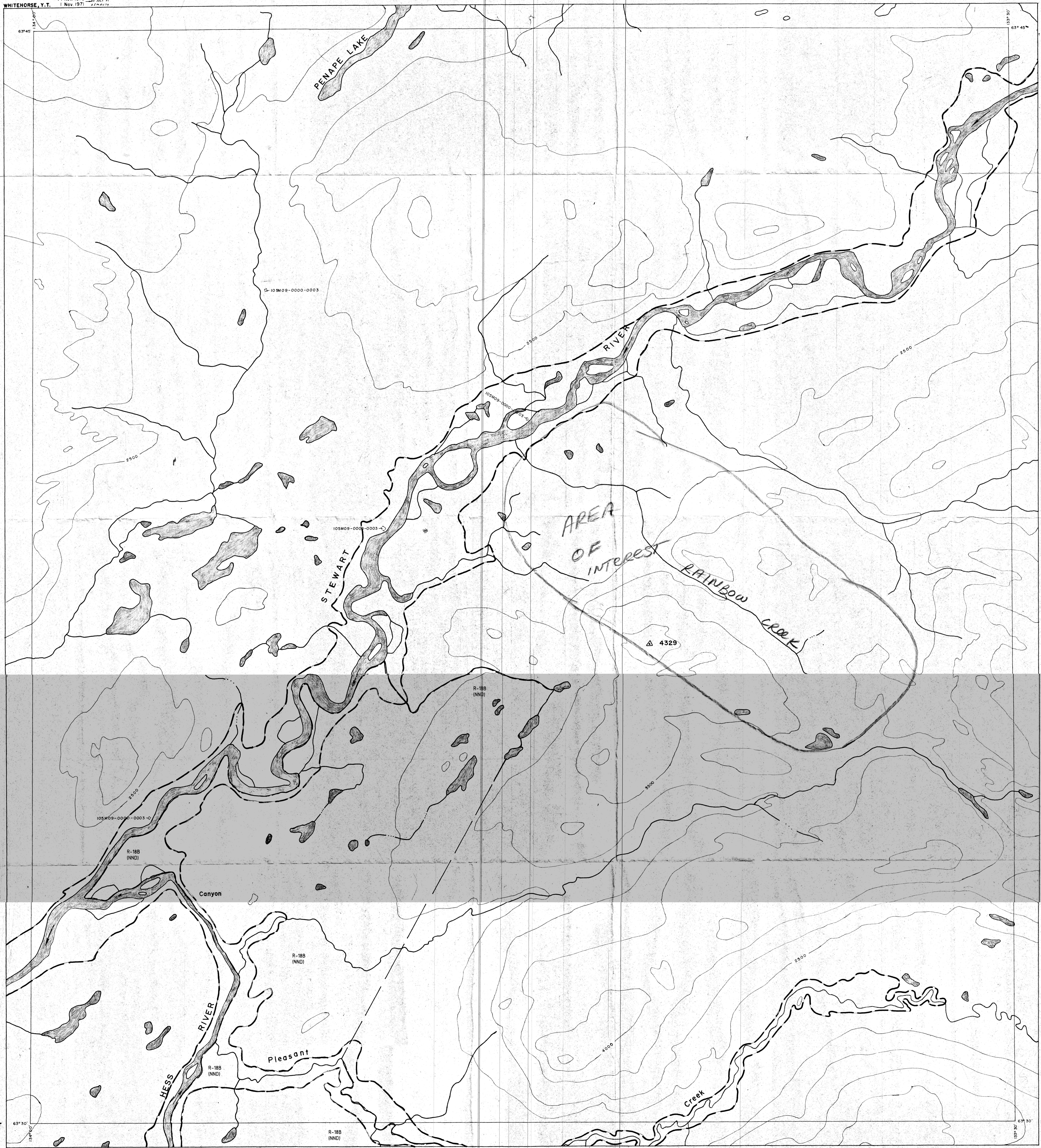


105M-16	105N-13	105N-14
105M-9	105N-12	105N-11
105M-8	105N-5	105N-6

Note: Entry on certain lands is withdrawn from staking in cross-hatched areas to facilitate the settlement of Native Land Claims without prejudice to Existing Surface and Subsurface Rights.

NND = FIRST NATION OF NACHO NYAK DUN

WHITEHORSE, Y.T.
26 MAY 97 L
18 APR 95
14 Nov 1973
1 Nov 1971

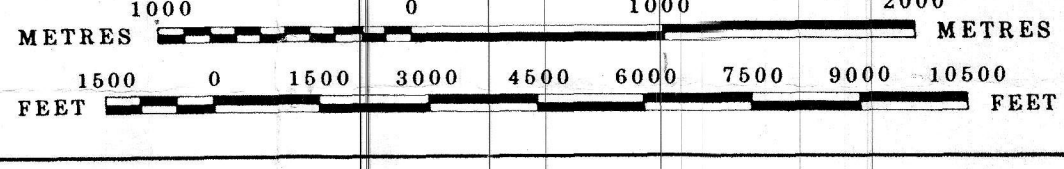


**115N-15
QUARTZ**

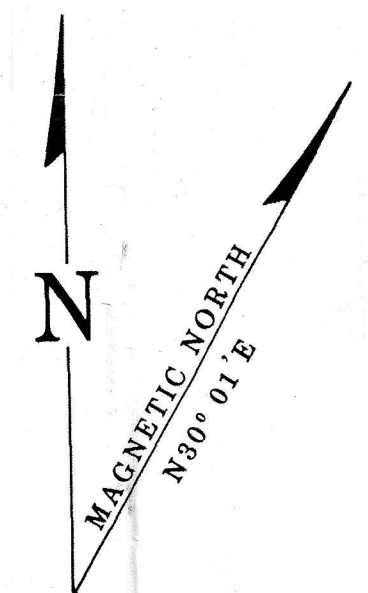
LATITUDE 63° 45' TO 64° 00'
 LONGITUDE 140° 30' TO 141° 00'

ISSUED UNDER THE AUTHORITY OF THE MINISTER
 OF
 INDIAN AFFAIRS AND NORTHERN DEVELOPMENT

SCALE 1:30,000



METRES 0 1000 2000
FEET 0 1500 3000 4500 6000 7500 9000 10500



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 TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES.
 CONTOUR INTERVAL 500 FEET.
 SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES.

115N-15	115N-16
115N-10	115N-9

DAWSON 28 JULY 82

01 SEPT 77
 02 OCT 81
 03 NOV 85
 04 DEC 89
 05 JAN 93
 06 FEB 97
 07 MAR 01
 08 APR 05
 09 MAY 09
 10 JUN 13
 11 JUL 17
 12 AUG 21
 13 SEPT 25
 14 OCT 29
 15 NOV 03
 16 DEC 07

FOR PLACER WITHIN DASHED LINES SEE 1:10,000
 FOR PLACER SEE 115N-15PL

