

YMIP 00-068

GEOCHEMICAL / GEOLOGICAL REPORT

on the

PACKERSBACK PROPERTY

Quartz Claims PACKERSBACK 1-20
Grant Numbers YC01859 – YC01878
Mayo Mining District
Owner: Gordon G Richards

Claim Sheet No 115P/1
Latitude 63 07 ½' N
Longitude 135 19' W

written by

Gordon G Richards

Work performed July 11,12, 2000
By: D Bennett & G Richards

January 17, 2001

~~00-068~~
~~00-070~~

TABLE OF CONTENTS

	Page
LOCATION AND ACCESS	3
CLAIMS	3
HISTORY	3
GEOCHEMISTRY	4
GEOLOGY	5
CONCLUSIONS AND RECOMMENDATIONS	6
STATEMENT OF COSTS	8
STATEMENT OF QUALIFICATIONS	9
APPENDIX GEOCHEMICAL RESULTS	10

LIST OF FIGURES

Figure 1. Property Location	1
Figure 2. Claim Map.	2
Figure 3. Au Geochem / Geology.	In Pocket

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Figure 1 Location Map

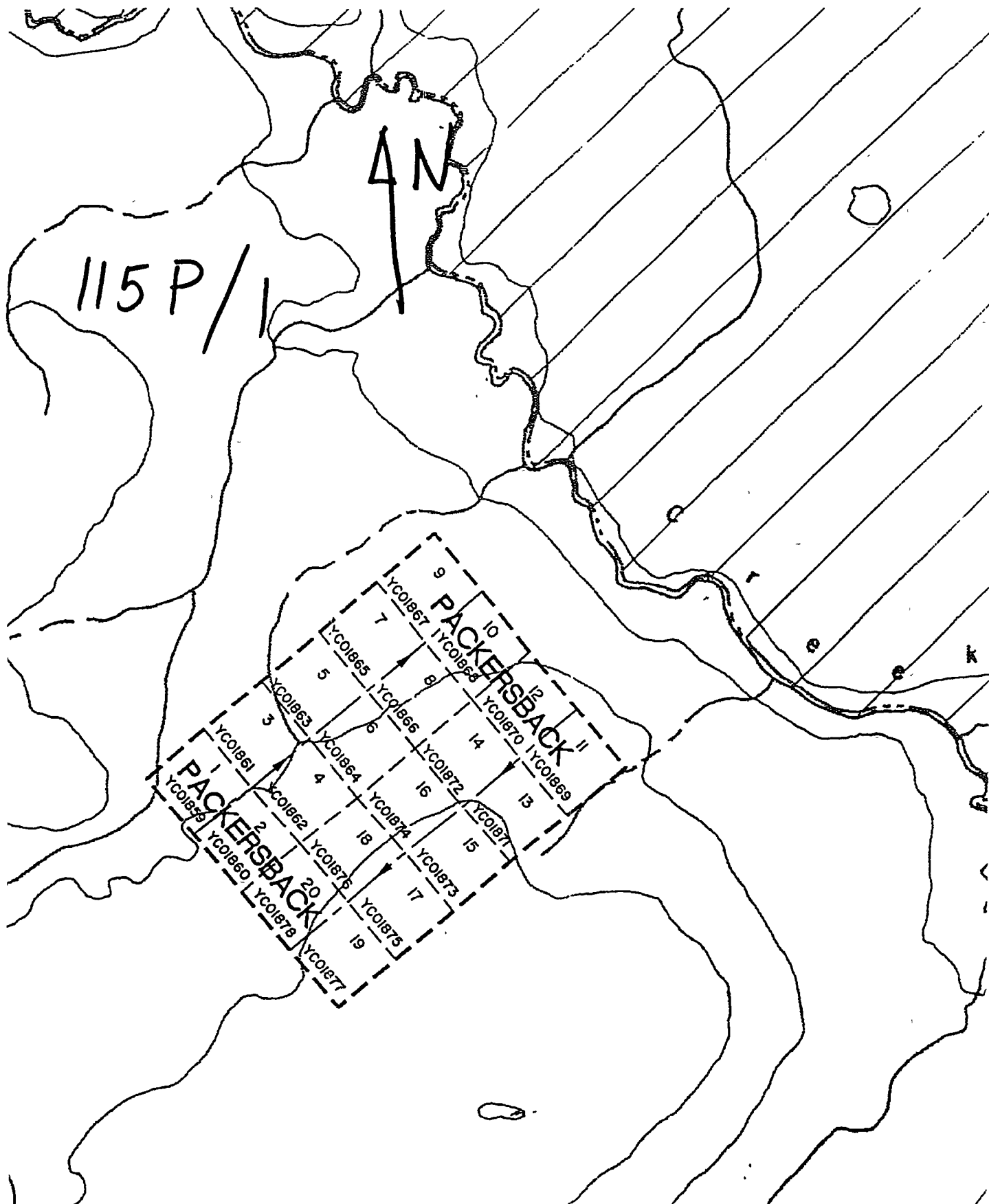


Figure 2 Claim Map

LOCATION AND ACCESS.

The claims are located 40-km northeast of Pelly Crossing and 60-km southwest of Mayo immediately west of Crooked Creek and the Tintina Trench on map sheet 115P/1 (Figure 1.) The property is accessible by helicopter from Mayo or by foot from the Klondyke Highway seven km to the southwest.

CLAIMS.

Quartz claims being renewed include the Packersback 1-20, Grant Numbers YC01859 – YC01878 inclusive. Owner is Gordon G Richards. Fieldwork was done by Mr. Dave Bennett and Mr. Gordon Richards on July 11 and 12, 2000 for the owner.

HISTORY.

RGS data, shown on Figure 3, provided silts variably anomalous for Au, As, and Sb throughout the large area between Crooked Creek and the Klondyke Highway in an area of gentle relief with elevations between 2000 and 3500 feet. Follow-up prospecting in 1999 led to the staking of claims at the time of initial prospecting to cover an area with little outcrop and low but persistent float of crackled to brecciated quartzite. An area of angular Kspar-porphyrific granite rubble in the centre of the claims was nearby. See Figure 3.

Till samples were collected across presumed westerly to southwesterly flowing ice direction. Silts and rocks were collected wherever sensible. Results indicated three areas of interest, one of which occurred on the claims. All Au results are shown on Figure 3 and Au and 32 element ICP results are provided in the Appendix. Two areas outside the claims, N9 to N13 in the south and N27 in the north returned moderately anomalous Au with anomalous As and Sb.

On the claims, W52 yielded the highest Au value, 95ppb, together with 92 ppm As, 10ppm Sb and 0.6 ppm Ag, all strongly anomalous values. This sample was near the angular granite rubble and at the downslope limit of sampling. Thus it was thought that a target of gold mineralization existed around and to the west of this sample.

In 2000 additional prospecting was conducted in the three targets described, with results provided below.

GEOCHEMISTRY.

Till samples were collected by digging holes with a shovel to a depth of 30 to 60 cm to get beneath a layer of mixed loess and till to as pure a sample of till, or sometimes soil, as possible. About two-kg of material was placed in numbered bags for analyses.

The area lies just beyond the limit of McConnell Glaciation as described in GSC Open File 3694 by A. Duk-Rodkin. This Open File describes a pattern of earliest Pliocene to early Pleistocene Glacial deposits (from ca. 3 Ma) as being present on ridge tops in the area, with Middle Pleistocene Glacial deposits (ca. 200ka) being present at lower elevations with a westerly movement of ice

Mixing of tills with loess, difficulty at some sites of determining sample material make interpretation somewhat of a problem. However, anomalous results probably indicate an up-ice source of mineralization within no more than one or two km particularly when supported by one or more of the pathfinder elements As, Sb and Ag ICP analysis, which was done on all samples, showed no Bi values higher than the threshold level of two ppm. As 0.5 ppm Bi is strongly anomalous, a mass spec analysis was done on nine samples that were anomalous for Au, As, and Sb, in Feb 2000 to determine if this method would yield anomalous Bi values. None were found and thus the cheaper ICP analysis was done on this year's samples.

Interpretation of results is shown on Figure 3 by a contour representing 15 ppb Au. Single +15 ppb Au samples were not contoured. On the claims, a 700 by 1000 meter area of anomalous Au in tills encompasses the area of Kspar porphyritic granite. Although As and Sb results are not shown on the map it is clear from a look at the results in the Appendix, that anomalous As and Sb, strongly correlate with anomalous Au.

Rock samples collected from the survey were made up of three to seven chips and placed in numbered kraft sample bags. Eight rock chip samples were collected throughout the 15-ppb Au area with E25, a dark phyllite, providing the high of 14-ppb Au. Other rock chips were -5 ppb Au. All were quartzite with minor muscovite and were limonite stained along fractures with some small hairline quartz veinlets. Sample W11, east of the 15 ppb Au contour ran 40 ppb Au and was similar though crackling was intense enough to provide a breccia texture. Limiting till samples should not be used too aggressively in evaluation of ultimate Au-anomaly size as dilution with loess or

inadvertent sampling of glacial outwash material could falsely limit the extent of anomalous geochemistry.

South of the claims a two-km by one-km zone of 15 ppb Au on the upland ridge and steep southeast slope occurs associated with flat-lying quartzite and quartz-chlorite schist. No intrusive rubble or outcrop was seen. As and Sb are again highly correlatable with anomalous gold as can be seen from the results in the Appendix. Sample density is low and more detail is required to help determine the cause of the anomalous gold. Four rock chips of limonitic crackled quartzite all returned values of -1 ppb Au. The source could be from less resistant and more reactive interbeds of schist and phyllite not exposed as either float or outcrop. Trenching may be necessary to expose such rocks

GEOLOGY.

Mapping by H S Bostock, 1964, Map 1143A McQuesten shows the immediate area of the claims to be underlain by paragneiss, quartzite, schist, phyllite and limestone of the Yukon Group. The Tintina Trench lies immediately northeast of the claim block and a granodiorite intrusion trending northwest lies between the property and the Klondyke Highway

All outcrops found were flat-lying quartzites with trace to a few percent muscovite and minor thin carbonaceous quartzite horizons. The steepest attitude was 48 southeast at D83 in the southeast corner of sampling. Elsewhere dips are less than 20. Some large quartzite boulders on the southeast slope at R54 to R56 displayed tight S-type folding approaching isoclinal folding. Chlorite schist, quartz -muscovite schist and dark phyllite were other metamorphic rock types seen as float, particularly in the area of the southern 15 ppb gold anomaly

Angular Kspar porphyritic ^{granite} boulders were found across about two hundred meters of the north facing slope near E3 to E5 around a small quartzite outcrop. Quartz content of the granite is 25 percent, Kspar phenocrysts measuring up to two cm long about two percent, biotite about five percent with the balance as groundmass feldspars. A small granite plug is believed to occur nearby

Quartzite veinlets and veins are common in the quartzite and do not correlate with anomalous gold geochemistry as they are found everywhere

Stratigraphy has not been previously described although mapping by Maurice Colpron on 105L/13, south of the area, is available in DIAND Open File 1998-3 (G) and of some use in evaluating the stratigraphy on the property. The writer's 2000 prospecting involved working in the area mapped by Colpron and it seems likely that the quartzite on the property is the same as Unit 1 of Colpron. On Pelmac ridge the quartzite is underlain in some areas by dolomitic schists and dolomitic quartzites, both highly reactive rocks to mineralizing fluids and thus excellent hosts for epithermal gold mineralization. Top of such rocks could lie within a few hundred feet of the 15-ppb gold till anomalies.

Main alteration seen on the Packersback claims is limonitic fractures occasionally intense enough to provide a breccia texture. Such alteration occurs as float and in outcrops at R76 and R78. As none of these rocks were very anomalous, the gold in till anomaly is unexplained. Rocks more strongly anomalous for gold may exist but be too recessively weathered to form outcrop or float.

.CONCLUSIONS AND RECOMMENDATIONS.

The Packersback 1-20 claim block covers the smaller of two anomalous gold zones defined by 15 ppb Au in tills. High As and Sb correlate well with high gold values. Mass spec analyses, with lower detection levels than ICP analyses, on some 1999 samples anomalous for Au, As and Sb provided low values for other elements such as Bi and W. The 15 ppb Au zone includes a 200-m zone of angular Kspar porphyritic ^{granite} rubble that probably represents a nearby small plug of granite possibly genetically related to gold mineralization. The till anomaly may extend a considerable distance to the northwest as sampling in this direction is difficult. Rock chips of limonite-stained crackled to brecciated quartzite were all low in gold, -7ppb Au. E25, a dark phyllite, assayed 14 ppb Au.


By analogy with mapped stratigraphy to the south, the flat lying quartzite found throughout the property, may be immediately underlain by dolomitic schists and dolomitic quartzites that would form a highly reactive host for epithermal mineralizing fluids associated with the granite. The thick brittle quartzite would have served as an impermeable cap to ascending mineralizing fluids, with local brittle breaking forming the limonite stained, crackled, brecciated quartzite that is variably anomalous for Au, As, and

Sb This model provides an excellent target for developing significant-grade gold mineralization

More detailed sampling and mapping are required to define the limits of anomalous gold and understand stratigraphy better prior to testing this model. Prospecting along the main creek, west of camp, might find mineralized boulders transported by ice and exposed by development of the creek. Also, digging shallow pits or trenches within the gold anomalous zones is recommended to help discover more strongly gold mineralized rocks than the quartzites. Finally, tighter sampling within and around the 15 ppb Au anomaly is recommended along with an attempt to extend till sampling to the northwest on the more gentle slopes, although permafrost and outwash deposits makes this sampling area difficult.

Induced polarization surveys could be considered soon after the above work to search for a blind sulfide system in the dolomitic metasediments that is proposed to underlie the quartzites.

Respectfully submitted

A handwritten signature in black ink, appearing to read 'Gordon G Richards', written in a cursive style.

Gordon G Richards, P Eng

STATEMENT OF COSTS

Wages

D Bennett June 11,12	2 days @ \$600/day	\$1200.00
G Richards June 11	1 day @ \$400/day	400.00

Expenses

Chemex: portion of A0024202, A0024200, A0011649	691.76
Supplies: string, propane, flagging, notes	50.00
Trans North Helicopters: ½ 24690	371.56
Food: 3 man days @ \$35/man day	105.00
Truck: 200 km @ .42 km	82.00

Report

Drafting, writing, reproductions, collating	<u>2500.00</u>
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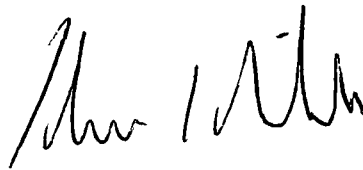
TOTAL \$ 5400.32

STATEMENT OF QUALIFICATIONS

I, Gordon G Richards, of 6170 Tisdall Street, Vancouver, B C., Canada do hereby certify that

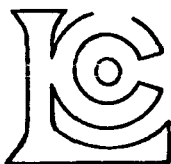
- 1 I am a graduate of The University of British Columbia (B.A.Sc in Geology 1968, M.A.Sc in Geology 1974)
- 2 I am registered as a Professional Engineer in the Province of British Columbia
- 3 I have practiced my profession since 1968
- 4 This report is based on my fieldwork and supervision of Mr D Bennett's fieldwork during July 11,12, 2000 and literature cited

Respectfully submitted,



Gordon G Richards, P Eng.

APPENDIX. GEOCHEMICAL 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 RICHARDS, GORDON

6170 TISDALL ST.
 VANCOUVER, BC
 V5Z 3N4

A0011649

Comments ATTN GORDON RICHARDS

CERTIFICATE **A0011649**

(NDJ) - RICHARDS, GORDON

Project. TIN
 PO #

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 04-FEB-2000.

SAMPLE PREPARATION		
CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
244	9	Pulp; prev. prepared at Chemex

* 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
9201	9	Al %: ICP + ICP-MS package	ICP	0.01	15.00
9202	9	Sb ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
9203	9	As ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
9204	9	Ba ppm: ICP + ICP-MS package	ICP	10	10000
9205	9	Be ppm: ICP + ICP-MS package	ICP	0.05	100.0
9206	9	Bi ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
9235	9	B ppm: ICP + ICP-MS package	ICP	10	10000
9207	9	Cd ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	500
9208	9	Ca %: ICP + ICP-MS package	ICP	0.01	15.00
9209	9	Cr ppm: ICP + ICP-MS package	ICP	1	10000
9210	9	Co ppm: ICP + ICP-MS package	ICP	0.2	10000
9211	9	Cu ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
9212	9	Ga ppm: ICP + ICP-MS package	ICP-MS/ICP	0.1	10000
9213	9	Ge ppm: ICP + ICP-MS package	ICP-MS	0.1	500
9214	9	Fe %: ICP + ICP-MS package	ICP	0.01	15.00
9215	9	La ppm: ICP + ICP-MS package	ICP	10	10000
9216	9	Pb ppm: ICP + ICP-MS package	ICP	2	10000
9217	9	Mg %: ICP + ICP-MS package	ICP	0.01	15.00
9218	9	Mn ppm: ICP + ICP-MS package	ICP	5	10000
9219	9	Hg ppm: ICP + ICP-MS package	ICP-MS/ICP	0.01	10000
9220	9	Mo ppm: ICP + ICP-MS package	ICP-MS/ICP	0.2	10000
9221	9	Ni ppm: ICP + ICP-MS package	ICP	1	10000
9222	9	P ppm: ICP + ICP-MS package	ICP	10	10000
9223	9	K %: ICP + ICP-MS package	ICP	0.01	10.00
9224	9	Sc ppm: ICP + ICP-MS package	ICP	1	10000
9237	9	Se ppm: ICP + ICP-MS package	ICP-MS/ICP	0.5	1000
9225	9	Ag ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	100.0
9226	9	Na %: ICP + ICP-MS package	ICP	0.01	10.00
9227	9	Sr ppm: ICP + ICP-MS package	ICP	1	10000
9236	9	S %: ICP + ICP-MS package	ICP	0.01	5.00
9228	9	Te ppm: ICP + ICP-MS package	ICP-MS	0.05	500
9229	9	Tl ppm: ICP + ICP-MS package	ICP-MS/ICP	0.02	10000
9230	9	Ti %: ICP + ICP-MS package	ICP	0.01	10.00
9231	9	W ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
9232	9	U ppm: ICP + ICP-MS package	ICP-MS/ICP	0.05	10000
9233	9	V ppm: ICP + ICP-MS package	ICP	1	10000
9234	9	Zn ppm: ICP + ICP-MS package	ICP	2	10000

AA/1



Chemex Labs Ltd.

Analytical Chemists * Geochemists * Registered Assayers

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o: RICHARDS, GORDON

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Project: TIN
Comments: ATTN: GORDON RICHARDS

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Certificate Date: 04-FEB-2000
Invoice No. : 10011649
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Account : NDJ

CERTIFICATE OF ANALYSIS A0011649

SAMPLE	PREP CODE	Hg ppm	Mo ppm	Ni ppm	P ppm	K %	Sc ppm	Se ppm	Ag ppm	Na %	Sr ppm	S %	Te ppm	Tl ppm	Ti %	W ppm	U ppm	V ppm	Zn ppm
99N 4	244 --	0.02	4.0	5	90	0.13	< 1	2.5	0.32	< 0.01	5	< 0.01	0.15	0.02	< 0.01	0.20	0.25	6	14
99W 39	244 --	< 0.01	0.6	6	40	0.03	< 1	< 0.5	0.06	< 0.01	4	< 0.01	< 0.05	< 0.02	< 0.01	0.15	0.10	< 1	4
99N 9	244 --	0.05	0.8	25	210	0.03	4	0.5	0.18	< 0.01	14	< 0.01	< 0.05	0.08	0.01	0.25	0.75	32	50
99N 10	244 --	0.01	1.4	28	530	0.07	2	0.5	0.20	< 0.01	10	0.01	0.05	0.08	0.01	0.15	0.85	27	68
99N 11	244 --	0.01	1.2	24	490	0.07	1	< 0.5	0.42	< 0.01	10	0.01	0.05	0.08	0.02	0.20	0.75	30	54
99N 12	244 --	0.01	1.2	27	160	0.06	2	0.5	0.08	< 0.01	9	< 0.01	< 0.05	0.08	0.01	0.15	0.70	25	56
99N 27	244 --	0.08	1.2	17	310	0.04	4	0.5	0.06	0.01	16	< 0.01	< 0.05	0.06	0.03	0.15	1.30	33	44
99W 51	244 --	0.04	1.0	14	480	0.04	2	< 0.5	0.10	0.01	16	< 0.01	< 0.05	0.08	0.03	0.30	0.75	26	42
99W 52	244 --	0.20	1.6	21	590	0.06	3	0.5	0.66	< 0.01	24	< 0.01	0.05	0.18	0.02	0.20	1.65	29	62



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Total Pages : 1
Certificate Date: 04-FEB-2000
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Account : NDJ

CERTIFICATE OF ANALYSIS A0011649

SAMPLE	PREP CODE	Al %	Sb ppm	As ppm	Ba ppm	Be ppm	Bi ppm	B ppm	Cd ppm	Ca %	Cr ppm	Co ppm	Cu ppm	Ga ppm	Ge ppm	Fe %	La ppm	Pb ppm	Mg %	Mn ppm
99N 4	244 --	0.19	69.7	452	80	0.20	0.13	< 10	0.18	0.01	152	1.2	66.3	0.8	< 0.1	1.95	< 10	20	0.01	60
99W 39	244 --	0.03	4.3	41.8	30	< 0.05	< 0.01	< 10	0.02	0.01	133	2.0	17.4	0.1	< 0.1	0.31	< 10	< 2	< 0.01	30
99N 9	244 --	1.17	11.8	64.0	550	0.75	0.13	< 10	0.08	0.28	27	7.8	31.0	3.1	< 0.1	2.53	< 10	8	0.28	475
99N 10	244 --	0.97	26.3	127.0	180	0.50	0.17	< 10	0.10	0.06	20	9.0	38.0	3.1	< 0.1	2.86	10	12	0.28	280
99N 11	244 --	0.90	23.9	133.5	110	0.40	0.17	< 10	0.08	0.07	24	8.8	34.2	3.1	< 0.1	2.66	10	12	0.31	280
99N 12	244 --	1.00	23.5	105.5	180	0.45	0.13	< 10	0.10	0.05	27	9.4	35.2	2.6	< 0.1	2.41	< 10	10	0.33	230
99N 27	244 --	0.92	9.1	64.4	240	0.55	0.14	< 10	0.06	0.13	22	7.6	29.8	3.1	< 0.1	2.36	10	8	0.29	215
99W 51	244 --	0.94	2.6	31.2	250	0.40	0.13	< 10	0.06	0.19	21	4.8	19.2	3.3	< 0.1	1.84	10	6	0.33	160
99W 52	244 --	1.20	17.0	108.5	400	0.50	0.22	< 10	0.10	0.20	25	8.2	44.6	3.9	< 0.1	2.40	10	12	0.33	225



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A0024202

Comments: ATTN: GORDON RICHARD

CERTIFICATE

A0024202

(NDJ) - RICHARDS, GORDON

Project: PACKER BACK
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 04-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
216	66	sieve to -150 mesh
202	66	save reject
229	66	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
3993	66	Au ppb: Fuse 30 gram-EXT-AA fin.	FA-EXT-AA	1	1000
2118	66	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	66	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	66	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	66	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	66	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	66	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	66	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	66	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	66	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	66	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	66	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	66	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	66	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	66	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	66	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	66	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	66	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	66	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	66	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	66	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	66	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	66	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	66	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	66	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	66	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	66	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	66	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	66	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	66	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	66	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	66	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	66	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	66	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	66	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



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 Account : NDJ

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CERTIFICATE OF ANALYSIS A0024202

SAMPLE	PREP		Au ppb	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La	Mg
	CODE		EXT-AA	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	%
D59	216	202	9	< 0.2	1.26	32	< 10	280	< 0.5	< 2	0.19	< 0.5	7	19	21	2.03	< 10	< 1	0.05	10	0.34
D60	216	202	9	< 0.2	1.16	32	< 10	230	< 0.5	< 2	0.15	< 0.5	8	19	26	2.18	< 10	< 1	0.06	10	0.32
D61	216	202	15	< 0.2	1.23	30	< 10	300	< 0.5	< 2	0.25	< 0.5	8	21	21	2.11	< 10	< 1	0.06	10	0.37
D62	216	202	21	< 0.2	1.68	44	< 10	410	0.5	< 2	0.19	< 0.5	12	30	35	2.59	< 10	< 1	0.06	10	0.43
D64	216	202	26	< 0.2	1.55	72	< 10	250	< 0.5	< 2	0.10	< 0.5	14	22	35	3.14	< 10	< 1	0.09	10	0.41
D66	216	202	27	< 0.2	1.64	60	< 10	310	0.5	< 2	0.23	< 0.5	21	33	58	3.52	< 10	< 1	0.12	10	0.79
D68	216	202	63	0.6	1.70	220	< 10	410	0.5	< 2	0.35	< 0.5	20	28	61	3.18	< 10	< 1	0.26	10	0.52
D69	216	202	26	< 0.2	1.16	44	< 10	270	< 0.5	< 2	0.24	< 0.5	7	20	17	2.08	< 10	< 1	0.13	10	0.36
D70	216	202	14	< 0.2	1.14	22	< 10	490	< 0.5	< 2	0.70	< 0.5	12	20	29	2.66	< 10	< 1	0.10	10	0.54
D74	216	202	7	< 0.2	1.27	50	< 10	200	< 0.5	< 2	0.14	< 0.5	7	21	25	2.43	< 10	< 1	0.06	10	0.28
D75	216	202	14	< 0.2	1.08	54	< 10	180	< 0.5	< 2	0.12	< 0.5	8	17	23	2.26	< 10	< 1	0.09	10	0.26
D76	216	202	29	< 0.2	1.58	30	< 10	220	< 0.5	< 2	0.07	< 0.5	6	22	18	2.39	< 10	< 1	0.07	10	0.34
D77	216	202	16	< 0.2	1.39	82	< 10	310	< 0.5	< 2	0.22	< 0.5	8	26	24	2.52	< 10	< 1	0.08	10	0.37
D78	216	202	35	< 0.2	0.91	98	< 10	230	< 0.5	< 2	0.27	< 0.5	8	23	42	2.59	< 10	< 1	0.09	10	0.39
D79	216	202	41	0.2	0.97	122	< 10	270	< 0.5	< 2	0.23	< 0.5	7	15	24	2.07	< 10	< 1	0.09	10	0.25
D80	216	202	1	< 0.2	1.41	34	< 10	110	< 0.5	< 2	0.13	< 0.5	7	22	14	2.39	< 10	< 1	0.10	< 10	0.33
D81	216	202	42	0.2	0.93	302	< 10	230	< 0.5	< 2	0.33	< 0.5	11	18	57	2.88	< 10	< 1	0.08	10	0.34
D82	216	202	13	0.2	1.14	124	< 10	460	< 0.5	< 2	5.76	< 0.5	11	18	27	2.87	< 10	< 1	0.12	10	0.64
E3	216	202	18	0.2	1.64	56	< 10	310	< 0.5	< 2	0.24	< 0.5	9	26	20	2.67	< 10	< 1	0.08	10	0.43
E5	216	202	37	< 0.2	1.62	68	< 10	240	< 0.5	< 2	0.12	< 0.5	12	84	33	2.82	< 10	< 1	0.06	10	0.96
E7	216	202	20	< 0.2	1.76	40	< 10	200	< 0.5	< 2	0.10	< 0.5	9	27	36	2.80	< 10	< 1	0.06	10	0.37
E8	216	202	59	< 0.2	0.50	256	< 10	100	< 0.5	< 2	0.23	< 0.5	16	6	42	3.03	< 10	< 1	0.12	30	0.06
E9	216	202	11	< 0.2	1.39	44	< 10	360	< 0.5	< 2	0.44	< 0.5	13	24	25	2.50	< 10	< 1	0.08	10	0.48
E10	216	202	19	< 0.2	1.41	40	< 10	440	< 0.5	< 2	0.27	< 0.5	10	28	35	2.69	< 10	< 1	0.09	10	0.41
E11	216	202	12	< 0.2	1.36	32	10	440	< 0.5	< 2	0.43	< 0.5	11	24	32	2.42	< 10	< 1	0.08	10	0.43
E12	216	202	8	< 0.2	1.28	14	< 10	600	< 0.5	< 2	0.42	< 0.5	12	24	28	2.57	< 10	< 1	0.05	10	0.50
E13	216	202	8	< 0.2	1.16	14	< 10	300	< 0.5	< 2	0.45	< 0.5	9	22	17	2.14	< 10	< 1	0.05	10	0.37
E14	216	202	11	< 0.2	1.32	34	< 10	430	< 0.5	< 2	0.43	< 0.5	10	25	28	2.38	< 10	< 1	0.06	10	0.42
E15	216	202	9	< 0.2	1.36	14	< 10	340	< 0.5	< 2	0.32	< 0.5	9	25	26	2.32	< 10	< 1	0.06	10	0.46
E16	216	202	20	< 0.2	0.96	72	< 10	410	< 0.5	< 2	0.18	< 0.5	8	17	29	2.12	< 10	< 1	0.05	10	0.30
E17	216	202	14	< 0.2	1.35	20	< 10	490	< 0.5	< 2	0.36	< 0.5	12	27	30	2.54	< 10	< 1	0.06	10	0.48
E18	216	202	6	< 0.2	1.11	36	< 10	380	< 0.5	< 2	0.26	< 0.5	8	22	22	2.05	< 10	< 1	0.05	10	0.36
E19	216	202	21	< 0.2	0.71	90	< 10	280	< 0.5	< 2	0.21	< 0.5	10	17	34	2.16	< 10	< 1	0.05	10	0.24
E21	216	202	18	< 0.2	1.10	46	< 10	300	< 0.5	< 2	0.23	< 0.5	9	20	20	2.05	< 10	< 1	0.06	10	0.33
E22	216	202	23	< 0.2	0.71	128	< 10	200	< 0.5	< 2	0.20	< 0.5	12	22	42	2.77	< 10	< 1	0.11	20	0.30
E23	216	202	21	< 0.2	0.99	86	< 10	230	< 0.5	< 2	0.26	< 0.5	12	41	39	2.62	< 10	< 1	0.08	10	0.46
E26	216	202	11	< 0.2	1.22	38	< 10	240	< 0.5	< 2	0.19	< 0.5	7	20	21	2.03	< 10	< 1	0.05	10	0.35
R50	216	202	12	< 0.2	0.96	82	< 10	140	< 0.5	< 2	0.05	< 0.5	7	14	24	2.19	< 10	< 1	0.06	10	0.21
R51	216	202	17	< 0.2	1.01	122	< 10	150	< 0.5	< 2	0.04	< 0.5	8	14	39	2.55	< 10	< 1	0.07	10	0.21
R52	216	202	17	< 0.2	1.15	36	< 10	340	< 0.5	< 2	0.35	< 0.5	8	25	25	2.09	< 10	< 1	0.05	10	0.43

CERTIFICATION:

Sato



ALS Chemex

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TO: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Page No. : 1-B
 Total Pages : 2
 Certificate Date: 04-AUG-2000
 Invoice No. : 10024202
 P.O. Number :
 Account : NDJ

Project : PACKER BACK
 Comments : ATTN: GORDON RICHARD

CERTIFICATE OF ANALYSIS

A0024202

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
D59	216	202	160	< 1	0.01	18	520	6 < 0.01	6	3	15	0.02	< 10	< 10	28	< 10	60	
D60	216	202	210	< 1	0.01	23	500	8 < 0.01	2	2	14	0.03	< 10	< 10	29	< 10	56	
D61	216	202	220	< 1	0.01	20	540	6 < 0.01	2	3	21	0.04	< 10	< 10	32	< 10	56	
D62	216	202	250	1	0.01	23	410	8 < 0.01	2	5	18	0.04	< 10	< 10	47	< 10	52	
D64	216	202	310	< 1	0.01	34	340	8 < 0.01	10	3	14	0.02	< 10	< 10	35	< 10	68	
D66	216	202	500	< 1	0.01	51	320	6 < 0.01	10	6	19	0.01	< 10	< 10	48	< 10	72	
D68	216	202	550	< 1	0.01	52	540	10 0.04	58	4	35	0.03	< 10	< 10	36	< 10	82	
D69	216	202	215	< 1	0.01	21	370	8 0.02	6	2	23	0.03	< 10	< 10	32	< 10	46	
D70	216	202	440	< 1	0.01	30	710	8 0.01	2	3	40	0.04	< 10	< 10	31	< 10	84	
D74	216	202	135	< 1	0.01	21	470	8 0.01	4	2	17	0.02	< 10	< 10	32	< 10	62	
D75	216	202	145	< 1	0.01	23	400	12 < 0.01	< 2	1	13	0.02	< 10	< 10	29	< 10	56	
D76	216	202	175	< 1	0.01	17	200	22 < 0.01	2	2	11	0.02	< 10	< 10	34	< 10	52	
D77	216	202	160	< 1	0.01	24	390	8 0.03	2	3	22	0.04	< 10	< 10	45	< 10	48	
D78	216	202	230	< 1	0.01	30	610	4 0.03	10	4	24	0.04	< 10	< 10	39	< 10	48	
D79	216	202	205	< 1	0.01	22	340	6 0.01	10	1	23	0.01	< 10	< 10	29	< 10	40	
D80	216	202	135	< 1	0.01	21	660	6 < 0.01	2	2	10	0.03	< 10	< 10	43	< 10	46	
D81	216	202	230	< 1	0.01	39	470	10 0.04	24	3	30	0.02	< 10	< 10	27	< 10	56	
D82	216	202	660	1	0.02	26	650	6 0.27	14	3	209	0.03	< 10	< 10	26	< 10	80	
E3	216	202	275	< 1	0.01	23	680	10 < 0.01	6	3	20	0.04	< 10	< 10	46	< 10	76	
E5	216	202	370	< 1	0.01	42	270	6 < 0.01	6	6	13	0.03	< 10	< 10	57	< 10	62	
E7	216	202	230	1	0.01	23	370	6 < 0.01	6	3	14	0.03	< 10	< 10	49	< 10	70	
E8	216	202	425	< 1	< 0.01	44	1300	26 0.02	12	1	20	< 0.01	10	< 10	10	< 10	106	
E9	216	202	405	< 1	0.01	28	760	8 < 0.01	4	3	31	0.04	< 10	< 10	37	< 10	78	
E10	216	202	285	< 1	0.01	31	450	12 0.01	< 2	5	30	0.05	< 10	< 10	45	< 10	74	
E11	216	202	260	< 1	0.01	30	640	10 < 0.01	4	4	30	0.04	< 10	< 10	35	< 10	74	
E12	216	202	325	< 1	0.02	32	700	8 0.01	< 2	4	28	0.05	< 10	< 10	41	< 10	94	
E13	216	202	315	< 1	0.01	17	590	4 < 0.01	< 2	3	28	0.05	< 10	< 10	41	< 10	48	
E14	216	202	255	< 1	0.01	26	660	4 < 0.01	2	4	28	0.04	< 10	< 10	39	< 10	64	
E15	216	202	300	< 1	0.01	26	540	4 < 0.01	< 2	4	25	0.06	< 10	< 10	43	< 10	64	
E16	216	202	200	< 1	0.01	25	150	8 < 0.01	6	3	19	0.03	< 10	< 10	27	< 10	60	
E17	216	202	565	< 1	0.02	33	430	8 < 0.01	< 2	5	27	0.06	< 10	< 10	47	< 10	60	
E18	216	202	240	< 1	0.01	23	340	6 < 0.01	4	3	20	0.04	< 10	< 10	33	< 10	50	
E19	216	202	270	< 1	0.01	30	470	10 < 0.01	10	3	17	0.01	< 10	< 10	21	< 10	66	
E21	216	202	230	< 1	0.01	23	540	6 < 0.01	6	2	18	0.03	< 10	< 10	30	< 10	60	
E22	216	202	390	< 1	0.01	37	690	12 0.01	16	3	18	0.01	< 10	< 10	19	< 10	96	
E23	216	202	405	< 1	0.01	37	630	10 < 0.01	14	5	19	0.02	< 10	< 10	30	< 10	80	
E26	216	202	185	< 1	0.01	18	430	6 < 0.01	4	3	15	0.03	< 10	< 10	33	< 10	50	
R50	216	202	160	< 1	< 0.01	19	260	8 < 0.01	6	1	9	0.01	< 10	< 10	24	< 10	50	
R51	216	202	180	< 1	< 0.01	25	210	10 0.01	16	2	10	0.01	< 10	< 10	24	< 10	62	
R52	216	202	245	< 1	0.01	24	540	4 < 0.01	10	4	27	0.06	< 10	< 10	39	< 10	54	

CERTIFICATION:

Said / [Signature]



ALS Chemex

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J: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Page No. : 2-A
 Total Pages : 2
 Certificate Date: 04-AUG-2000
 Invoice No. : I0024202
 P.O. Number :
 Account : NDJ

Project : PACKER BACK
 Comments: ATTN: GORDON RICHARD

CERTIFICATE OF ANALYSIS A0024202

SAMPLE	PREP CODE	Au ppb EXT-AA	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
R53	216 202	6	0.2	1.03	102	< 10	130	< 0.5	< 2	0.06	< 0.5	9	17	32	2.46	< 10	< 1	0.07	10	0.29
R54	216 202	< 1	< 0.2	1.11	28	< 10	270	< 0.5	< 2	0.24	< 0.5	9	22	17	2.23	< 10	< 1	0.13	10	0.36
R55	216 202	5	< 0.2	1.21	32	< 10	230	< 0.5	< 2	0.30	< 0.5	11	28	32	2.54	< 10	< 1	0.13	10	0.40
R56	216 202	< 1	< 0.2	0.97	34	< 10	130	< 0.5	< 2	0.21	< 0.5	8	23	16	2.03	< 10	< 1	0.12	< 10	0.33
R57	216 202	11	< 0.2	0.89	88	< 10	200	< 0.5	< 2	0.18	< 0.5	8	17	23	2.06	< 10	< 1	0.16	10	0.27
R60	216 202	9	< 0.2	1.13	44	< 10	280	< 0.5	< 2	0.28	< 0.5	8	27	22	2.24	< 10	< 1	0.12	10	0.43
R61	216 202	23	< 0.2	1.38	46	< 10	260	< 0.5	< 2	0.25	< 0.5	9	65	26	2.48	< 10	< 1	0.08	10	0.70
R62	216 202	4	< 0.2	1.02	20	< 10	190	< 0.5	< 2	0.23	< 0.5	8	30	16	2.15	< 10	< 1	0.07	< 10	0.38
R63	216 202	2	< 0.2	1.06	36	< 10	170	< 0.5	< 2	0.21	< 0.5	8	28	21	2.33	< 10	< 1	0.07	< 10	0.44
R64	216 202	8	< 0.2	1.49	62	< 10	170	< 0.5	< 2	0.11	< 0.5	9	26	20	2.56	< 10	< 1	0.08	10	0.46
R65	216 202	14	< 0.2	1.31	38	< 10	320	< 0.5	< 2	0.13	< 0.5	8	26	27	2.44	< 10	< 1	0.05	10	0.37
R66	216 202	9	0.2	1.60	32	< 10	250	0.5	< 2	0.08	< 0.5	10	23	29	2.90	< 10	< 1	0.07	10	0.31
R68	216 202	12	< 0.2	1.39	24	< 10	470	0.5	< 2	0.26	< 0.5	9	25	29	2.46	< 10	< 1	0.07	10	0.44
R69	216 202	3	< 0.2	1.37	56	< 10	260	< 0.5	< 2	0.09	< 0.5	9	17	19	2.17	< 10	< 1	0.05	10	0.23
R71	216 202	4	0.2	0.65	42	< 10	140	< 0.5	< 2	0.14	< 0.5	11	10	35	2.76	< 10	< 1	0.11	30	0.10
R72	216 202	29	< 0.2	0.97	64	< 10	120	< 0.5	< 2	0.13	< 0.5	8	18	32	2.37	< 10	< 1	0.06	10	0.28
R75	216 202	4	< 0.2	1.64	14	< 10	330	< 0.5	< 2	0.11	< 0.5	9	31	23	2.64	< 10	< 1	0.05	10	0.44
R77	216 202	7	< 0.2	1.55	28	< 10	260	0.5	< 2	0.07	< 0.5	11	26	39	2.53	< 10	< 1	0.05	10	0.36
R79	216 202	8	< 0.2	0.41	70	< 10	100	< 0.5	< 2	0.03	< 0.5	5	6	35	2.46	< 10	< 1	0.12	20	0.04
R80	216 202	9	0.2	1.21	56	< 10	230	< 0.5	< 2	0.06	< 0.5	5	18	22	2.01	< 10	< 1	0.04	10	0.20
R81	216 202	10	< 0.2	1.20	46	< 10	270	< 0.5	< 2	0.11	< 0.5	5	23	28	2.29	< 10	< 1	0.05	10	0.28
R82	216 202	12	< 0.2	0.56	36	< 10	210	< 0.5	< 2	0.08	< 0.5	4	10	28	2.13	< 10	< 1	0.09	30	0.10
R83	216 202	6	< 0.2	1.34	42	< 10	130	< 0.5	< 2	0.06	< 0.5	10	15	25	3.03	< 10	< 1	0.05	30	0.50
R84	216 202	4	0.2	1.04	22	< 10	260	< 0.5	< 2	0.15	< 0.5	11	17	22	2.57	< 10	< 1	0.07	10	0.27
R85	216 202	< 1	< 0.2	1.16	30	< 10	200	< 0.5	< 2	0.12	< 0.5	14	22	30	2.93	< 10	< 1	0.10	20	0.47
R95	216 202	< 1	< 0.2	0.90	10	< 10	110	< 0.5	< 2	0.77	< 0.5	10	19	19	1.97	< 10	< 1	0.09	< 10	0.44

CERTIFICATION:

Said/Leina



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TO: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Project: PACKER BACK
 Comments: ATTN: GORDON RICHARD

Page Number :2-B
 Total Pages :2
 Certificate Date: 04-AUG-2000
 Invoice No. :10024202
 P.O. Number :
 Account :NDJ

CERTIFICATE OF ANALYSIS A0024202

SAMPLE	PREP CODE	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm
R53	216 202	200	< 1	< 0.01	26	610	8	0.02	30	2	11	0.02	< 10	< 10	32	< 10	60
R54	216 202	185	< 1	< 0.01	25	960	8	< 0.01	8	3	21	0.03	< 10	< 10	35	< 10	52
R55	216 202	245	< 1	0.01	30	420	2	< 0.01	4	4	21	0.05	< 10	< 10	44	< 10	48
R56	216 202	165	< 1	0.01	21	230	4	< 0.01	< 2	3	14	0.05	< 10	< 10	39	< 10	38
R57	216 202	170	< 1	0.01	24	230	12	0.01	4	3	15	0.03	< 10	< 10	26	< 10	56
R60	216 202	240	< 1	0.01	24	480	8	< 0.01	12	3	20	0.04	< 10	< 10	38	< 10	48
R61	216 202	245	< 1	0.01	33	280	6	< 0.01	6	6	18	0.04	< 10	< 10	48	< 10	48
R62	216 202	190	< 1	0.01	22	290	4	< 0.01	6	4	17	0.05	< 10	< 10	43	< 10	40
R63	216 202	195	< 1	0.01	26	390	6	< 0.01	6	2	16	0.04	< 10	< 10	44	< 10	46
R64	216 202	200	< 1	0.01	25	260	6	< 0.01	12	3	12	0.04	< 10	< 10	46	< 10	50
R65	216 202	205	< 1	0.01	29	110	6	< 0.01	6	4	14	0.04	< 10	< 10	42	< 10	58
R66	216 202	240	< 1	0.01	29	180	12	< 0.01	12	3	11	0.02	< 10	< 10	37	< 10	64
R68	216 202	270	< 1	0.01	30	270	8	< 0.01	< 2	5	20	0.03	< 10	< 10	36	< 10	60
R69	216 202	175	< 1	< 0.01	28	400	8	< 0.01	2	2	10	0.01	< 10	< 10	34	< 10	54
R71	216 202	245	< 1	< 0.01	37	290	14	0.01	6	1	19	< 0.01	10	< 10	21	< 10	68
R72	216 202	180	1	0.01	22	520	8	0.01	8	2	16	0.03	< 10	< 10	36	< 10	44
R75	216 202	230	< 1	0.01	24	190	10	< 0.01	< 2	4	14	0.05	< 10	< 10	49	< 10	48
R77	216 202	185	< 1	< 0.01	36	140	10	< 0.01	2	3	12	0.02	< 10	< 10	34	< 10	60
R79	216 202	70	< 1	< 0.01	24	580	28	0.01	6	1	14	< 0.01	< 10	< 10	9	< 10	54
R80	216 202	75	< 1	< 0.01	13	190	12	< 0.01	2	1	11	0.02	< 10	< 10	32	< 10	30
R81	216 202	110	< 1	0.01	15	180	12	< 0.01	2	4	18	0.03	< 10	< 10	34	< 10	34
R82	216 202	85	1	< 0.01	16	530	22	< 0.01	6	1	17	< 0.01	10	< 10	16	< 10	42
R83	216 202	220	< 1	< 0.01	29	340	14	0.01	< 2	1	11	0.01	10	< 10	15	< 10	70
R84	216 202	495	< 1	0.01	26	520	10	< 0.01	4	2	15	0.01	< 10	< 10	28	< 10	70
R85	216 202	340	< 1	< 0.01	37	240	14	< 0.01	2	2	14	0.01	< 10	< 10	21	< 10	74
R95	216 202	325	< 1	0.01	18	710	8	0.03	2	3	32	0.04	< 10	< 10	26	< 10	50

CERTIFICATION:



ALS Chemex

Aurora Laboratory Services Ltd
 Analytical Chemists * Geochemists * Registered Assayers
 212 Brooksbank Ave., North Vancouver
 British Columbia, Canada V7J 2C1
 PHONE: 604-984-0221 FAX: 604-984-0218

o: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

A0024200

Comments: ATTN: GORDON RICHARD

CERTIFICATE

A0024200

(NDJ) - RICHARDS, GORDON.

Project: PACKER BACK
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 04-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	18	Geochem ring to approx 150 mesh
226	18	0-3 Kg crush and split
3202	18	Rock - save entire reject
229	18	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
3993	18	Au ppb: Fuse 30 gram-EXT-AA fin.	FA-EXT-AA	1	1000
2118	18	Ag ppm: 32 element, soil & rock	ICP-AES	0.2	100.0
2119	18	Al %: 32 element, soil & rock	ICP-AES	0.01	15.00
2120	18	As ppm: 32 element, soil & rock	ICP-AES	2	10000
557	18	B ppm: 32 element, rock & soil	ICP-AES	10	10000
2121	18	Ba ppm: 32 element, soil & rock	ICP-AES	10	10000
2122	18	Be ppm: 32 element, soil & rock	ICP-AES	0.5	100.0
2123	18	Bi ppm: 32 element, soil & rock	ICP-AES	2	10000
2124	18	Ca %: 32 element, soil & rock	ICP-AES	0.01	15.00
2125	18	Cd ppm: 32 element, soil & rock	ICP-AES	0.5	500
2126	18	Co ppm: 32 element, soil & rock	ICP-AES	1	10000
2127	18	Cr ppm: 32 element, soil & rock	ICP-AES	1	10000
2128	18	Cu ppm: 32 element, soil & rock	ICP-AES	1	10000
2150	18	Fe %: 32 element, soil & rock	ICP-AES	0.01	15.00
2130	18	Ga ppm: 32 element, soil & rock	ICP-AES	10	10000
2131	18	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
2132	18	K %: 32 element, soil & rock	ICP-AES	0.01	10.00
2151	18	La ppm: 32 element, soil & rock	ICP-AES	10	10000
2134	18	Mg %: 32 element, soil & rock	ICP-AES	0.01	15.00
2135	18	Mn ppm: 32 element, soil & rock	ICP-AES	5	10000
2136	18	Mo ppm: 32 element, soil & rock	ICP-AES	1	10000
2137	18	Na %: 32 element, soil & rock	ICP-AES	0.01	10.00
2138	18	Ni ppm: 32 element, soil & rock	ICP-AES	1	10000
2139	18	P ppm: 32 element, soil & rock	ICP-AES	10	10000
2140	18	Pb ppm: 32 element, soil & rock	ICP-AES	2	10000
551	18	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
2141	18	Sb ppm: 32 element, soil & rock	ICP-AES	2	10000
2142	18	Sc ppm: 32 elements, soil & rock	ICP-AES	1	10000
2143	18	Sr ppm: 32 element, soil & rock	ICP-AES	1	10000
2144	18	Ti %: 32 element, soil & rock	ICP-AES	0.01	10.00
2145	18	Tl ppm: 32 element, soil & rock	ICP-AES	10	10000
2146	18	U ppm: 32 element, soil & rock	ICP-AES	10	10000
2147	18	V ppm: 32 element, soil & rock	ICP-AES	1	10000
2148	18	W ppm: 32 element, soil & rock	ICP-AES	10	10000
2149	18	Zn ppm: 32 element, soil & rock	ICP-AES	2	10000



ALS Chemex

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Client: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Page Number : 1-A
 Total Pages : 1
 Certificate Date: 04-AUG-2000
 Invoice No. : I0024200
 P.O. Number :
 Account : NDJ

Project : PACKER BACK
 Comments : ATTN: GORDON RICHARD

CERTIFICATE OF ANALYSIS A0024200

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
	EXT-AA																				
D63	205	226	< 1	< 0.2	0.50	20	< 10	110	< 0.5	< 2	0.11	< 0.5	4	140	11	1.04	< 10	< 1	0.23	10	0.13
D65	205	226	< 1	< 0.2	1.68	48	< 10	300	< 0.5	< 2	0.03	< 0.5	7	128	63	3.51	< 10	< 1	0.35	20	0.54
D67	205	226	< 1	< 0.2	0.18	8	< 10	20	< 0.5	< 2	0.03	< 0.5	4	212	41	0.78	< 10	< 1	0.05	< 10	0.04
E1	205	226	5	< 0.2	0.13	6	< 10	110	< 0.5	< 2	< 0.01	< 0.5	1	241	4	0.47	< 10	< 1	0.04	< 10	< 0.01
E2	205	226	< 1	< 0.2	0.08	18	< 10	80	< 0.5	< 2	< 0.01	< 0.5	4	124	16	0.97	< 10	< 1	0.05	< 10	0.01
E4	205	226	2	0.2	0.22	50	< 10	60	< 0.5	< 2	< 0.01	< 0.5	6	168	27	1.12	< 10	< 1	0.17	< 10	0.01
E6	205	226	3	< 0.2	0.08	20	< 10	10	< 0.5	< 2	< 0.01	< 0.5	1	159	17	0.59	< 10	< 1	0.04	< 10	< 0.01
E20	205	226	6	< 0.2	0.07	30	< 10	90	< 0.5	< 2	< 0.01	< 0.5	< 1	120	16	0.69	< 10	< 1	0.05	< 10	< 0.01
E24	205	226	< 1	< 0.2	0.23	12	< 10	60	< 0.5	< 2	< 0.01	< 0.5	4	90	33	1.78	< 10	< 1	0.19	< 10	0.01
E25	205	226	14	< 0.2	0.20	40	< 10	90	< 0.5	< 2	< 0.01	< 0.5	3	158	10	0.77	< 10	< 1	0.16	< 10	0.01
E27	205	226	< 1	< 0.2	0.20	14	< 10	40	< 0.5	< 2	< 0.01	< 0.5	1	164	27	0.75	< 10	< 1	0.10	< 10	< 0.01
R58	205	226	3	< 0.2	0.22	108	< 10	290	< 0.5	< 2	0.02	< 0.5	5	155	10	1.20	< 10	< 1	0.18	< 10	0.03
R59	205	226	< 1	< 0.2	0.25	6	< 10	400	< 0.5	< 2	< 0.01	< 0.5	1	187	3	0.48	< 10	< 1	0.18	< 10	0.01
R70	205	226	5	< 0.2	0.16	36	< 10	130	< 0.5	< 2	< 0.01	< 0.5	3	177	26	0.95	< 10	< 1	0.11	< 10	0.01
R73	205	226	< 1	< 0.2	0.17	4	< 10	50	< 0.5	< 2	< 0.01	< 0.5	< 1	193	1	0.30	< 10	< 1	0.01	< 10	< 0.01
R74	205	226	< 1	< 0.2	0.11	< 2	< 10	170	< 0.5	< 2	< 0.01	< 0.5	< 1	128	1	0.18	< 10	< 1	0.07	< 10	< 0.01
R76	205	226	16	< 0.2	0.17	158	< 10	110	< 0.5	< 2	0.01	< 0.5	4	170	24	2.81	< 10	< 1	0.10	< 10	< 0.01
R78	205	226	2	0.2	0.25	6	< 10	60	< 0.5	< 2	< 0.01	< 0.5	1	173	14	0.72	< 10	< 1	0.15	< 10	0.01

CERTIFICATION:

Sarah Kemp



ALS Chemex

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

J: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Project: PACKER BACK
 Comments: ATTN: GORDON RICHARD

Page No. : 1-B
 Total Pages : 1
 Certificate Date: 04-AUG-2000
 Invoice No. : 10024200
 P.O. Number :
 Account : NDJ

CERTIFICATE OF ANALYSIS

A0024200

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
D63	205	226	125	1	0.01	14	520	12	< 0.01	6	< 1	6	< 0.01	< 10	< 10	6	< 10	48
D65	205	226	175	< 1	0.01	36	240	< 2	< 0.01	12	1	7	< 0.01	< 10	< 10	23	< 10	82
D67	205	226	60	1	< 0.01	15	170	< 2	< 0.01	2	< 1	1	< 0.01	< 10	< 10	9	< 10	16
E1	205	226	20	1	0.01	5	40	< 2	< 0.01	< 2	< 1	8	< 0.01	< 10	< 10	3	< 10	2
E2	205	226	445	< 1	< 0.01	12	50	< 2	< 0.01	8	< 1	1	< 0.01	< 10	< 10	1	< 10	24
E4	205	226	45	< 1	0.01	23	160	4	0.01	6	< 1	8	< 0.01	< 10	< 10	3	< 10	40
E6	205	226	20	12	< 0.01	9	100	10	< 0.01	2	< 1	9	< 0.01	< 10	< 10	21	< 10	24
E20	205	226	20	3	< 0.01	3	30	< 2	< 0.01	2	< 1	< 1	< 0.01	< 10	< 10	1	< 10	2
E24	205	226	125	< 1	< 0.01	32	160	< 2	< 0.01	< 2	< 1	3	< 0.01	< 10	< 10	4	< 10	36
E25	205	226	50	< 1	0.01	11	130	< 2	0.02	2	< 1	31	< 0.01	< 10	< 10	5	< 10	30
E27	205	226	20	1	< 0.01	6	80	< 2	< 0.01	2	< 1	< 1	< 0.01	< 10	< 10	6	< 10	2
R58	205	226	60	< 1	0.01	14	90	8	0.03	< 2	< 1	3	< 0.01	< 10	< 10	1	< 10	92
R59	205	226	75	1	< 0.01	8	50	6	< 0.01	8	< 1	3	< 0.01	< 10	< 10	5	< 10	6
R70	205	226	265	< 1	< 0.01	12	190	6	< 0.01	12	< 1	< 1	< 0.01	< 10	< 10	5	< 10	20
R73	205	226	15	1	< 0.01	4	70	< 2	< 0.01	< 2	< 1	4	< 0.01	< 10	< 10	< 1	< 10	< 2
R74	205	226	5	< 1	< 0.01	3	10	< 2	< 0.01	< 2	< 1	< 1	< 0.01	< 10	< 10	1	< 10	< 2
R76	205	226	215	< 1	< 0.01	18	400	< 2	< 0.01	12	< 1	5	< 0.01	< 10	< 10	7	< 10	64
R78	205	226	25	< 1	< 0.01	6	60	< 2	< 0.01	2	< 1	< 1	< 0.01	< 10	< 10	3	< 10	2

CERTIFICATION:

[Handwritten Signature]



ALS Chemex

Aurora Laboratory Services 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: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

A0024610

Comments: ATTN: GORDON RICHARD

CERTIFICATE

A0024610

(NDJ) - RICHARDS, GORDON

Project: PACKERS BACK
 P.O. #:

Samples submitted to our lab in Vancouver, BC.
 This report was printed on 07-AUG-2000.

SAMPLE PREPARATION

CHEMEX CODE	NUMBER SAMPLES	DESCRIPTION
205	2	Geochem ring to approx 150 mesh
226	2	0-3 Kg crush and split
3202	2	Rock - save entire 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
3993	2	Au ppb: Fuse 30 gram-EKT-AA fin.	FA-EKT-AA	1	1000
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
557	2	B ppm: 32 element, rock & soil	ICP-AES	10	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
2131	2	Hg ppm: 32 element, soil & rock	ICP-AES	1	10000
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
551	2	S %: 32 element, rock & soil	ICP-AES	0.01	5.00
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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to: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Project: PACKERS BACK
 Comments: ATTN: GORDON RICHARD

Page Number: 1-A
 Total Pages: 1
 Certificate Date: 07-AUG-2000
 Invoice No.: I0024610
 P.O. Number:
 Account: NDJ

CERTIFICATE OF ANALYSIS

A0024610

SAMPLE	PREP CODE		Au ppb	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm	Hg ppm	K %	La ppm	Mg %
	EKT-AA																				
D83	205	226	< 1	< 0.2	0.13	46	< 10	80	< 0.5	< 2	0.03	< 0.5	7	78	27	0.51	< 10	< 1	0.06	< 10	0.03
R67	205	226	6	< 0.2	0.31	26	< 10	210	< 0.5	< 2	0.02	< 0.5	8	141	24	1.87	< 10	< 1	0.11	< 10	0.03

CERTIFICATION:

Said Amin



ALS Chemex

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Client: RICHARDS, GORDON

6170 TISDALL ST.,
 VANCOUVER, BC
 V5Z 3N4

Project: PACKERS BACK
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Page No. : 1-B
 Total Pages : 1
 Certificate Date: 07-AUG-2000
 Invoice No. : 10024610
 P.O. Number :
 Account : NDJ

CERTIFICATE OF ANALYSIS A0024610

SAMPLE	PREP CODE		Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
			ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
D83	205	226	50	< 1	< 0.01	19	40	2	< 0.01	2	< 1	1	< 0.01	< 10	< 10	2	< 10	8
R67	205	226	300	< 1	0.01	24	60	8	< 0.01	2	1	5	< 0.01	< 10	< 10	7	< 10	34

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

CERTIFICATION: Said / [Signature]

PACKERS BACK PROPERTY

QUARTZ CLAIMS YC01859 - YC01878
PACKERSBACK 1-20

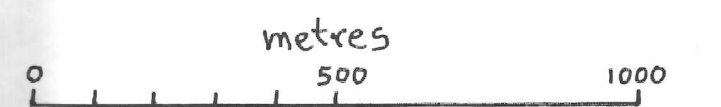
Au GEOCHEM / GEOLOGY

- Till
 - Soil
 - Silt
 - △ Rock
- 15 ppb Au in tills & soils. Defined by more than one spot sample

Location of samples by hipchain, compass & topo bedding attitude
outcrop

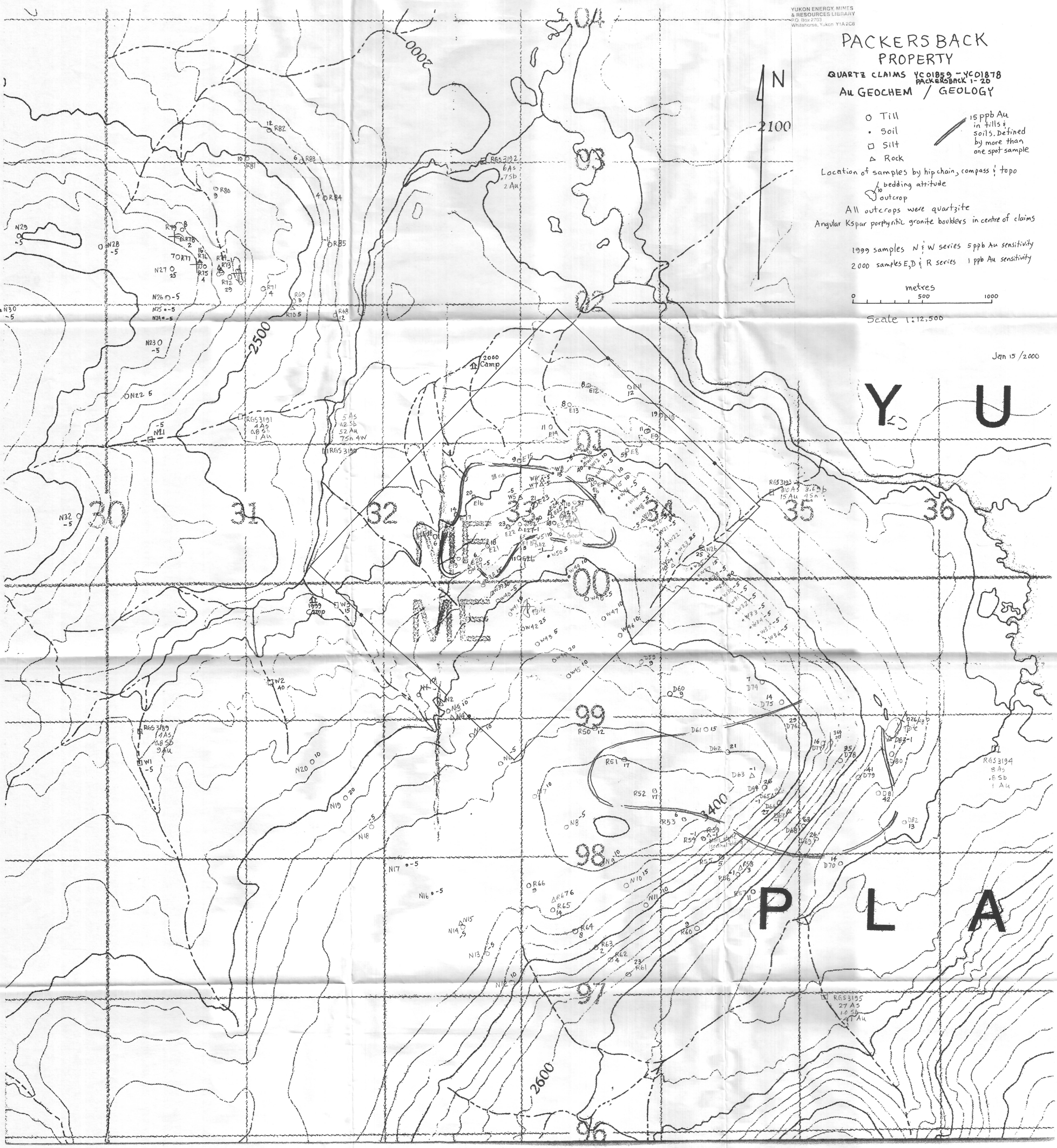
All outcrops were quartzite
Angular Kspar porphyritic granite boulders in centre of claims

1999 samples N & W series 5ppb Au sensitivity
2000 samples E, D & R series 1ppb Au sensitivity



Scale 1:12,500

Jan 15 / 2000



FIELD NOTES

2000

YUKON

G. RICHARDS

(D BENNETT
in back half)

00-068
00-070

2.

No 1 Started chaining
Run RUN on top of bank
21 due w of No 1
S Run/RN 1 plus

1500' L 50' N.
JUNE 18 1530 No 1 21+22
2000

G. Richards

200' string line runs E-W
1490 No 2 21+22 No 1 23+24
2000 base slope flats of ck.
2145 creek
2180 base slope

2980 No 2 23+24 No 1 25+26
3170^{old} string - uphill + downhill
4480 No 2 25+26 No 1 27+28
5980 No 2 27+28 No 1 29+30
Crested by qtz - ser - schis

7480 No 2 29+30

North Pacific Supply Corp. 46 Level-4

No 2 29+30 0 ft
 Uphill
 960 ft string line old
 Y29 200 ft ± South
 thin fl^o dark phyllite gneiss
 1630 ft string line
 Y23 20 ft N.
 2050 0 s dark phyllite
 3250 No 1 post Run Run 31+32
 N
 1210 near top near oc? bio silice
 1515 No 2 31+32 No 1 33+34
 2090 slabs bio qtz gneiss
 psammite
 2540 subrup same
 3000 No 2 33+34 No 1 35+36
 3340 cps ser-qtz
 3620 musc-qtz cps
 4590 No 2 35+36 No 1 37+38
 5020 basal slope
 5135 d rd 5150 end
 560 from last post

From ridge top and Mariposa

South 0 m

100 m C51 Rky yllw soil
 yllw stained fig intr? - gneiss
 not much fabric
 on mouse trail

200 C52 some org^c rky soil
 on mouse trail

yllw mag-cig pag to good
 from limonite

300 some granite bldrs to 1/2 m
 set in organic goop

bldrs gneiss go to 50 ft
 muck

630 snow patch deep muck

870 C53 Soil org^c + rky
 carbon mass Fum bldrs
 qtz + (schist - gns)
 some "granite"

1140 C54 Sandy seep w musc
 on brow of hill into ck
 thick willows

1340 - creek cut in 8'
L/ur flt granite & peg
mica in sandy silt
C55 silt

1400 felsic massive slabby
fld^d hbd bio grav.
+ peg.

1500± blue hbd kym gneiss

1580 creek cut no silt but
cps of metam^{'s} gneiss schist

1635 many blue c/g gneiss
no colour all L/ur

2300 Murchison ck old
wading down st^{'s} 50m
this area stripped of vegⁿ

C56 Silt. (R) in flt
sandy. Much gr^E flt

1600 Down ck 0m
gom or alt^{'s} quartz⁺
peg dyle

North Pacific Supply Corp. 46 Level 4

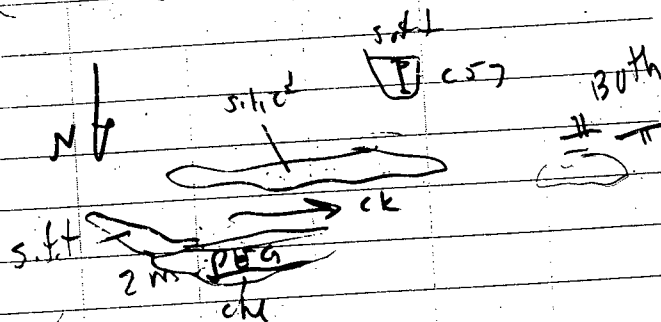
Variably silic^d ch. gneiss

144/85 SW w ptz mlt^s

|| + L schist fldⁿ.

C57 RC silic^d zone 12m

wide open



North Pacific Supply Corp. 46 Level 4

head downstream Rt Limit

450± D 2-D4^s + slate

580 felsic massive very dark gneiss

800 C58 Silt main creek

50' wide mixed area cont^{'s}

980 C59 Soil on W facing
slope [100°] above ck.

1050 Cast trail heads straight

uphill. Much fln med grey
fld^d granite big Fairly
uniform flt

1150 C60 Good brown grey clay soil

1170 large 1m slab of rock
in green gneiss

1180 cat trail arriving @
ATV

off + on to walk slabs of
gneiss grey chl-hbd fspur

1300 C61 Fine silt big ok
meta + quartz? cobbles

1330 C62 Side trib silt
fine sandy silt

break spread out Down m

1570 just shaft tails?
valley 100' + across

1420 start chert area ^{square}
first above confluence

Head back to yesterday's end Manip. Ck

C63 coarse silt w arg's

300m above ATV near upstr^m

trib on Right Limit by bike

C64 Bilt big L limit trib (S) ^{in main} ck

North Pacific Supply Corp. 46 Level 4

C65 Soil 50P

C66 Soil 500

C67 Soil 50P

C68 Soil 90P

Camp CK 17P

m CSR
99513

13A/80 NE

C69 Soil Rich m a s
60P

C70 Soil gen shed 50P

150P somewhat weaker

- almost pure muscovite outcrop along rd
immediately east of big creek ~ 1/2 km
East of old Maniposa Camp. Then
low outcrop of hbd 25% bio gneiss
Muscovite schist started just before
C65. Soils are good but not
particularly rocky until C69.
Rocks at old camp are all 2m
(granit musc schist) with steep
to north-east.

Cross trending is present but rare

Outcrops down along rd below old Mcmosecamp
are all variably mafic content blk-bio
qtz fspn gneiss some w garnets small.

Hit QMS rubble in bench just
upstream from forks in rd. Bench
plum mining cut in QMS thinning
then further west.

At W end bench up rd is small
quarry

Dark green grey gn w fine laminations
of fspn white + pink.

OC plane cut by low angle fault
dipping $10^\circ \pm$ E wthly
Strike different.

Small ck W of JB's camp.
on W side OC in rd cut
is QMS 125/40 NE.

March
Manipisa - up Scroggie

100 m 115/60 N dark gn f.g
gneiss w fine pale to pink lam^{ns}
115/47 better attitude

311-
~ 400 m peg or c.g. granite oc

tailings piles are all uniform
pale pink c.g. willy fol^o granite

1/2 cm qtz set in c.g. to mg pink fspn
blk + bio variably chl^d.
mafic bio blk lenses not uncommon
some lenses are white

JB's mining was done fairly hard to
Right Limit, + line is round
left in Left Limit.

Below blades in creek @ top
level of mining is granite
Granite oc's + rubble continue to

first major trib. Road continues
Granite similar. Xcept more replace
Some mafic. c.g. more

Granite to 2nd creek rd continues
C151 Silt good gritty silt. Granite

stretch of dc 100-200' wide x 1000' long
@ upper end 2 ps in soil are
within 4 to mg granite or pink granite
good granite / lar pbbles nearby swamp

C152 Fine active sandy silt
just beyond sand in ck

Uphill to rd

700m or 4.9 inches of open grass
in chd 10% fill

2/3 way up hill tip rd w 100% dirt
on ghs esp abundant
finely laminated

down the side

C153 Silt good coarse silt
much clay pbbles gns + silt
fair amount mica

C154 Fine silt no coarse material
could be problem
3' from rd Claim Post

C155 Coarse silt above swamp rd
All granite MP

North Pacific Supply Corp. 46 Level 1

Abund maniposa Camp w 1000'

) red ribbon (salmon) + string line broken
2 old posts w tags lying around
flopping last year or there?

) C176 Small sep S side Maniposa

) QMS + peg flt 2 lar specimens

Down Sidehill down ck

) 100m C177 ~~for~~ silt good coarse

change no pup in 50,000

few rusty, yellow QMS + peg

+ 50m big clay sides QMS + bio

+ 100m 5m of big peg bld

+ 200m 111/49 NE flt QMS on a seg

could be top tailing

) C178 Silt coarse some air
partly soil? Very steep +
difficult to collect silt

) QMS, PEG, + ATZ EYE Pth 11
clay flt

+ 400m C179 Silt across from Camp

) QMS but not clear

Fair size ck

North Pacific Supply Corp. 46 Level 1

180
A 100m F. g dullish grey gas fol^d
180 f. s. par chl + bio?

C181 RC Comp 1 cm spaced traces
w weak s.p? strong Fe stain
181 QMS

C182 RC like 181 Xcept more
X cutting lines

1/2 way from camp to Scaggie Quarry
105/46 N in fig quartz
w pale chl in f. s. par
well banded w fine
laminations, pale +
dark units

138/42 N^E chl
QMS fol^d across from
stems in corner rd
above bush cut

North Pacific Supply Corp. 46 Level 4

) @ corner across from Stevens above
bush cut
Set 0m

[N along rd]

) 75m due east of No 2 Post 29+30

100m radius flags

) 200m solid ac grey gas
chl - bio f. s. par

weak color on tal

107/40 N

f. s. par - musc silic^d on top w Fe stain

310m QMS silic^d w/ly along ditch

Scaggie No 1 Post up track

from here

) 340 bucket quarry w gravel above

380 C182
Xtan w pip from ditch QMS

w 1% wfg grey sp (S)

) Fe stained, 50%

395 less alt^d banded f. s. par quartz

w traces (w sp?) // fol^d

) 405 C183 RC f. s. par quartz w musc
grey sp? Fe stained (e)

North Pacific Supply Corp. 46 Level 4

520 - 550 more like the staked

qtzite. w laminations

167/52 NE

lg qtzite into hbl fspen quartz

minor peg around 450 → +

just start of Kolumba ck

OC hbl-gneiss - fspen quartz

fresh hbl to 300m long

165/38 E

RUM RUN 41+42 No 1 just start

) of small peg w of 18th camp
small OC in rd. dms.

) 260 rd from A-forme

1500' No 1 43+44

2100 A-Forme CK

) C156 Silt Xcellent gritty

orange color

3050 No 1 45+46

4600 No 1 47+48

) Set on this is end of Williams

Intersect No 1 + No 2 at 45+46

start open again

) 915 switchback in old road

1380 E rd hbl changed to right

1500 No 1 49+50

) 2950 + No 2 49+50

down to creek

) C157 silt good by rky dms

810' down to rd by old gas shed

North Pacific Supply Corp. 481-1000

73.
Trough OC - old fuel storage bench

OC'S clay rd to S are all
granite w/ prominent diffuse pink
phases of Ksp + large pheris

hbd to 15mm Ksp to 2mm

more commonly 1 cm. 15-20% matrix

same but mostly hbl.

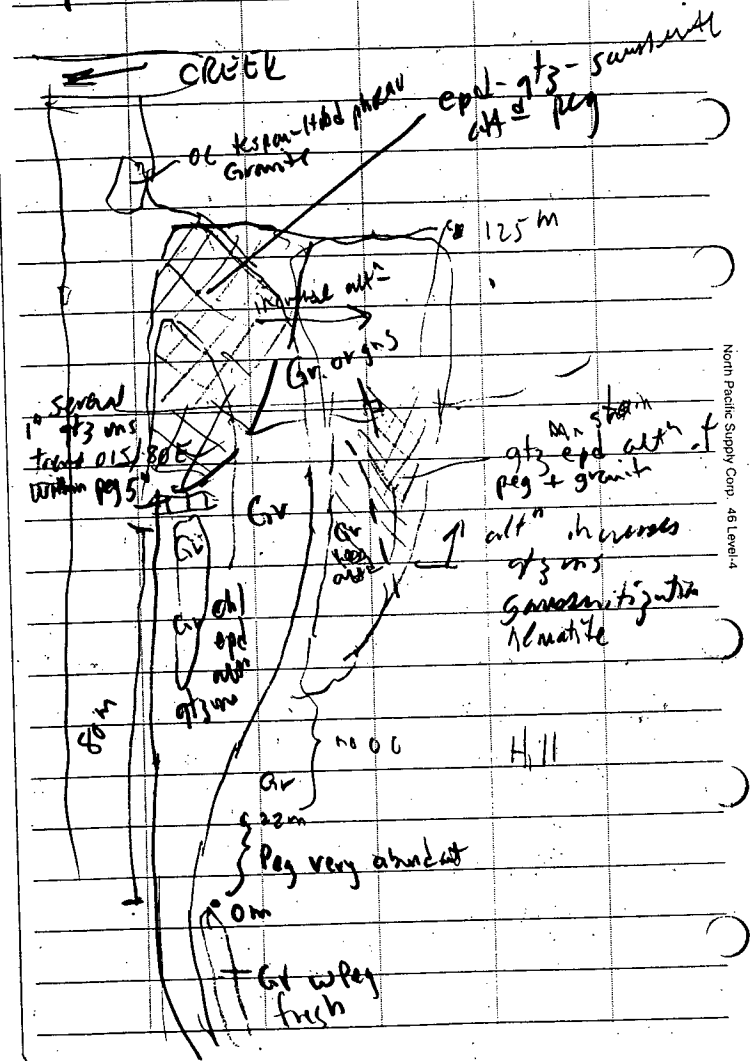
cut by low peg dikes < 10 cm

North Pacific Supply Corp. 481-1000

m

m

T.B.
foliated gneiss or quartz. No ksp
phenon N and C



Pig Hill has ^{gr} tal^{gr} granite, or gneiss
like Lued hill. Both peg
cont^g qtz inlets + epid. Not as
strong as alt^m as Lued hill

Under trailer + skid stack to S
to 30^m of A camp old wt
w/ pink spin pheno granite fol^d *
w peg dykes < 1 m + assoc^d
minerals to and epid - sanesite^g p

Much clear peg rubble under
camp area 20^m square and

Down below Zelenka Ship U. Sergio
C. 184 RC peg w hairline qtz w peg + ?
dyke 2-5 m wide peg cutting
pink spin - hbl Tc granite like

@ camp
[Upstream] all 0^m
59^m aplite o.c. + peg

T/E

105 Granite + peg of
mostly granite perhaps
in old cut bottom

255^m Camp on beds everywhere
with 210 cm peg dykes since 1.2^m

340 1/2 peg dykes in granite
@ start Chapman embayment??
or continue to 410^m

580 other side Chapman embayment
granite w peg dykes like
beds

710 C185 Peg beds bed w (35)
qtz veins w low st q st
much alt & granite + peg
on dumps starts here
directly opposite camp

750 C186 Granite cut by carbonate
arkose vein. Ark^o alt^o
very common in trails here
in granite + peg

1000 end alt^o 1050 fresh granite pebbles

North Pacific Supply Corp. 46 Level 4

Summit ✓

Left camp

Smith 0^m

150 base slope

2025 wide runway in snow

2280 R1 Till ^{on oxidized} not carbonate

compact. Round pebbles minor sand

Some qtz pebble others phyllite

2620 R2 clayey bit. on oxidized

much qtz pebbles here + bank

sub^lcl. bit, phyllite and

2950 R3 Till 50% oxidized

qtz pebbles + phyllite mod

Some sub^lcl phyllite

3300 R4 Bn to one grey till

sub^lcl phyllite to ind?

3500 edge hill into cl

135^m

3650 silt or loess dep

3730 R5 Gray bn fill under

oxidized 30cm fill + silt

hard clay fill

North Pacific Supply Corp. 46 Level 4

✓
4080 R6 Sandy till under
1/2 m loam - silt
qtz pbbles sub clay sub sand

4430 R7 Xlent till, Red
good mixed high in clay
Grey colour 1 per colour
phyllite (5) much clay phyll

R8
4870 Br grey gritty till few pbbles

5260 R9 ~~qtz~~ Gritty few pbbles
greenish br grey till much qtz
Phyllite w qtz units (5)

North Pacific Supply Corp. 46 Level 4

✓
up big creek to yesterday
Stringline + then to R9

[060°] 0m

480m clay psammite w fine

qtz + qtz lining ruffs fine
1440 R10 Till w much clay musc

phyllite - siltst. much clay qtz and
thin holes w Fe stain and
+ musc siltst but no sd

[335°] 0m

420 R11 Cold grey till phyll pbbles

~~750 m till~~ Heavy blockish
not blockish, no till

1650 R12 slightly sandy till
and to w side 1x² @ base

2025 R13 Till? Okish?

Drumlin like hill ~~at~~ 1/2 mi.

2200 end of another drumlin side
slip side to NW here

North Pacific Supply Corp. 46 Level 4

- ✓
- Climb survey line Siskiyew
from vicinity of Summit
Lake to flat top mtn
+ survey markers
- (1) [Avalanche] on OC here is flat
lying ~~200m~~ ^{200m} ~~R15~~ phyllite with gentle
folding trends N10°
- (2) 200m R15 Rky soil to till? Some
loam? Felsic phyllite w fine
silice Fe stain
R15 Phyllite on till also to subcl
phyllite cps abundant
- (3) 300 R16 Rky till Some loam?
also clay phyllite
- (4) 350m R17 qtz scudite schist phyllite
R17 Dark grey till, w dark grey
phyllite low to subcl
R18 Chl schist - phyllite w fine
incl? qtz (S)
- (5) 300 R19 Grey fill w med to clay
pbble. Also silice phyllite
- (6) 200 R20 Grey fill med to clay phyllite

Chinle hill to make sheet

0.5 along line 0m

330 C heavy soil near
break of hills phyllite cps

400 of flat lying phyllite

470 of pale green phyllite
flat lying weak lamination

1 cm qtz lenses

500 of like above

620 R 22 Gray grey till yellow
fine to clay cps clay phyllite

near LC post 100 m

885 R 23 Oxid bn soil to till
mostly clay phyllite

Some subround phyllite + 1st

10' from Legal Spring Post

1190 R 24 Bn soil w clay cps

Gray phyllite cps + pebbles

1300 Helicopter Pad

1500 R 25 Gray clay with till

kept all trap clay phyllite

1520 trail

North Pacific Supply Corp. 46 Level 4

Leaning Dune @ D39

0) [Eastward] along cut line 0m

300m R 26 Good till w clay

" to subclay cps + pebbles dark

0) phyllite. Sample just 50m ±

above base slope

Low sub round pebbles. Clay rich

matrix sand

585 R 27 Excellent clay with gray

till w clay + subclay phyllite

R 28 5 cm qtz veins w

chd walls + fine cps ± py

890 R 28 Bn till clay, subclay, subround

phyllite cps + bigger

0) 1160 R 29 Bn soil - till

2 clay cps phyllite Flats good

100 break in hillside

0) 1310 peak

North Pacific Supply Corp. 46 Level 4

✓
Leaning Peak

140° 0m

330 R37 mostly soil with phyllite
eps - chl = slabs Large qtz
blks (evaporite?) nearby.

10-20 cm loess on top

610 R38 Till bn mostly clay
phyllite, some sub and metamix

900 R33 Bn Till clay phyllite 4th

1200 R34 Bn Till clay phyllite
shand meta + qtz

Big qtz blks here

1500 R35 Bn till to soil some loess?

clay phyllite w trace hm = (S)

+ (S) phyllite

1710 R36 Bn till soil like (S)

beard slope. Shag line chert

Much qtz in area

✓
50m east of camp by pushup from
small dikes along trail.

Abundant alt[±] clay fth.

R37 che p[±] schist cut by stz

all w limonitic fracs, difficult to

see original rk type (2s) samples

R38 clay silic[±] + qtz nod lms. Some
relict carbonate. No sd (2s)

fit together

R39 Silica brca w hint of chl phyllite.

limonite fracs locally abundant. (S)

R40 clay silic[±] banded sed. Nearly
pure silic[±] (S)

R41 clay to sub clay silic[±] from destroyed
partially w primitive limonite + silica
lms. Tr. py (S)

R42 clay like prevs only smaller.

meta alt[±] ss - high qtz limonite (S)

R43 Alt[±] qtzite[±] trace limonite + silica

silica brca texture along one end
sub clay

R44 ✓
Clay silice^d phyllite. More
metamorphic looking. Fe^{2+} not
complete. Much silica is folded
fol^d. Some free limonite

R45 Clay weakly alt^d psammite
mainly free limonite (S)

R46 Clay qtz in + qtz brn metam^c
much limonite (S)

R47 Clay silice^d qtz rich ss w
limonitic brns From camp

R48 Till red, very rich blks
to clay rx. Variety of gneisses
Collected 50m E of camp where
most of above were collected

R49 Clay phyllite w/ky silice^d w qtz
units + low limonite. From 50m west of camp?

North Pacific Supply Corp. 46 Level-4

Day 2 Pelmer w Dave 180

025°

1) first 150m granite OC's w alt^d
fract^d in Fe stain. Carbonate?
Some incipient fspen detⁿ.

2) then Nest Reg in halfrd qtzite
+ 50m c187 Till 1/2m deep

ln oxidized road to clay flt.
Minn sand.

0m here.

25m qtzite w 2% pyrite ± py

200m fig. m. dia. 2% C.I.

to gneiss. + by 10cm peg

300 deep loess

350 C188 RC metabas - qtzite

w Fe stain Dolomite?

+ free Fe (S)

470 top of hill

500 C189 deep 1m Till

gnsh black gneiss. Good till
subrd to clay cap

570 OC qtz fspen peg dunes

cutting qtzite. low sil^d (14)

North Pacific Supply Corp. 46 Level-4

650 dk no silt

other slope S facing. blks mg granite

+ quartz w Fe traces ± clod

720 C196 RL. clm rubble quartz

w traces ± dm Fe stain

800 C197 Till on sidehill Bn.

Same loess? Rly under

1120 80 cm loess over washed

gravel

1280 C197? Grey hard till

beneath 60 cm loess

1400 with organic silt

1540 flat lying quartz w mica

partings and Fe traces

red rhyol

1650 C193 30 cm loess 10 cm - 20

washed gravel then grey bn till

and to subclm

1940 C194 Till (slightly washed?)

min loess. 50 cm deep

2280 C195 Bn Till slightly gn

Some red blks clay with

North Pacific Supply Corp. 46 Level-4

1 km E^W + through thick

birch willows

C196 clm Till clay with

or $\frac{1}{2}$ bn much gritty pebbles

rd, subrd, subclm

No loess

5 m

350 m C197 wet yellow grey till

under 50 cm loess + humus

720 washed gravel

under 60 cm humus

205 m

870 quick C198 silt

Some org. Gritty sand + mica

950 C199 Sandy till. No loess

1260 C200 Slightly sandy

till beneath 80 cm loess

1370 top bank into gully

1420 top other side

1590 C126 Silt? Sandy Till

mixed loess + till?

30 cm loess

North Pacific Supply Corp. 46 Level-4

1940 C127 RC qtzite w Fe stain
steep S slope
2270 granite OC
2900 broken shaly
+200m OC qtzite w Fe stain
+50m granite OC

10:30am Left Camp w Dave Day
Kelly River north side

10:45 070' 0m

11:30 1070' 0m

115' 0m?

12:00 1850' head of hill (1850')

0m

250m

C128 till silt + pbbles ±
cobbles steep grassy hillsides

10cm fine on top

500m ridge break strong + walk E
to OC siliceous psammite, cont. line

620 C129 Till under loose 50cm
mud to sub 6m

110 → 930 C130 Till good w shaley
phyllite cap + slabs w carbonate
± quartz

9240 C131 Till beneath 30cm
mud lower till

1680 C132 Till hill same class

crash
100m accident

2080 C133 Seep same quartz
Murch org

2240 Creek sup

2270 creek no silt many #20

2340 Big creek C134 silt gravelly
much carb at 2' alt.

Below: qtzite? more

like SS.

C135 RC carb alt 55. (5)

2:40 to some qtz, + other metam

3:10

Sub sup black phyllitic
shaly SS w carb
matrix. anal vein

[Contains] Wily 0m

450m creek C136 Good silt
fair coarse black cobbles

shaly phyllite w carb

+ qtz sea schist + other

[West] no 0m

200 end

[215] 0m tip ups on humus

250 C137 Till under 30cm

low under tip up. slightly wood?

Clay holds first together

640m C138 Till 80 cm deep

below 40cm loose + 30cm

loose - till mixture

had to sub down pbbs

qtz + phyllite

C139 RC large bldg from hole
alt Fe faces (thin ant)

silicified rounded psammite

1000 C140 Grey bn till under

yellow loose - till mixture

Simple gritty but no pbbs

Big rd pbbs 10 cm deep

Sample 60 cm depth

1300 C141 Dry till Grey bn

beneath loose - till mixture

Sharp SE facing gully slope

1510 C142 RC silicified huffs psamm

052/20 SE

2040 stop for silts

C143 silt big ck fo E
silicified huffs Kt + all other

2nd well carbant psamm
has cemented silt

116/48

Up with from boat on Rolly Silt
Delimitic atzite is target by silt

650m to first OC Carb? alt^d

psammite 116/48S

C144 RC carb alt^d psamm

690 C145 Silt somewhat organic within
ground. Much (40%) carb alt^d
phyllite. Some dark phyllite, Qtz
grit to blks are common.

720 C146 Soil W bank beneath
muscov. shewn phyllite w carb
↓ trans.

Also transverse? byia

730 All ga?

770 carb phyllite w Qtz m^r

775 green psammite

1000m to bank OC Qtz ± musc pntms
meta Qtzite.

1050 C147 Silt under gravel

Some org. (S) at 1000m OC

North Pacific Supply Corp. 46 Level 4

1200 core to waste of

1300 C148 Soil on stony carb

Some soft alt^d psamm. w Qtz in soil
from near atzite much org^s layering in this pt

1320 C149 RC or rky silic^d?

carb alt^d psamm w grey sp
+ micel staining

30 cm Qtz vein ready

1430 (W side) C150 RC subcomp carb

alt^d schisty psamm. hint of mal.
Soft (not silic^d)

1450 C101 RC subcomp variably silic^d

dark schist (S) hint mal + cpy?
+ grey sp

1460 overlying higher on hill block

Schist w org^c layers

near flat top 093/15N

1480 C102 silic^d Qtz muscov. min

py - cpy - grey sp? w side ck
by creek or more soft schisty

Some grey schist

094/30N variable

North Pacific Supply Corp. 46 Level 4

1510 C103 silt under coarse
plan km² (carb) pebbles
Same orgⁿ much oc to W
below tabane

1590 greenish grey psammite
no carbonate altⁿ

1565 summit oc E side

1600 oc carb altⁿ schist musc
E side w grey sd?

1720 C104 RC oc E side
silice^d qtz and carb altⁿ schist
Cane (+ length?)

1820 Subcomp dolomitic schist
"no" Fe stain some ± qtz

1850 C105 RC oc E side under
overhanging ledge musc - high carbonate
(dolo?) cut by qtz veins, whole oc
like thin. Bedding contorted vertical
to flat qtz veins to 10 cm

1900 C106 Silt good Musc fill
pebbles new + clear dolom^{ite}
schists + dolo

North Pacific Supply Corp. 46 Level-4

1970 big of shaly dolomite on
w bank etc cut by few large
qtz veins to 10-20 cm

2090 C107 silt main of good
dolom^{ite}; psam^{ite}; blades some
carb altⁿ schist silice^d clear
trch @ 2060 in dry up 80m

090/46 N bedding thick bedded
dolomite below joints 20 cm beds
Some 2 cm beds

~~Climb~~ + climb to S on W side
- angle 130° 0m

130m C108 Soil 6 cm eps yellow

290 red oc below on grassy hill
318 oc massive dolo +

425 C109 RC clear rubble in N side
side gully to grassy slope
on sp?

560 green psammite subcomp
610 rocky oc below 20m

North Pacific Supply Corp. 46 Level-4

670 OC. C110 RC carb act^d ~~granite~~ (S)
fractured Mal?

left boat on ox bar Macmillan

160^o 0^m Drive to west More First

300 creek follow up 160^o low

420 OC massive ch. - top quartz

105/5-10 S

460 C111 Fine silt mica sand

fair amount of fine sand

fair amount organics

690 VCC gray to gray heavily phyllite

160/20 W

750 C112 Good Till clay rich

red to sub blue gneiss

880 big blue bldg siliceous? quartz VCC

1100 C113 Scarp silt. Some mica

sand. some organics

North Pacific Supply Corp. 46 Level 4

OC visible in three hills to north
() 1430 C114 Spring org^s silt
same sand

1530 quartz OC 50^m

() 1600 top of OC bench

OC is quartz but w more
carbonaceous component.

Also pale green chert

1750 OC silice^s pale ph. phyllite

2000 top of steep hill into willow flats

SW 0^m

210^m C115 Wet clay rich good Till

under top of scarp

() 530 C116 dry till on W^{ly} rose

of small drainage?

980 and other side creek over

spring area

W 0^m

311 C117 RC sub blue sub sand till

() 1100 BSA E stain throughout carb?

hardly any mica (S) collected on

recent clay slump

North Pacific Supply Corp. 46 Level 4

380 C118 Till wet under
slumped clay bed on top

510 C119 Silt from creek
under pea gravel. Some
columnar sp. next to

725 C120 + C121 RC's of same
blk subcln submd qtz-cont
w sp. frags + blks. ditche
w/ty grey sp? (25)

C122 RC similar blk nearby
All could be silic^d lens. Mark?

735 Form next lens of lt. Some cbbles
similar alt^d ftt.

744 C123 pscum? bleched to
light grey w. f-g grey sp (5)

772 C124 cherty bedded w grey layers
C125 silic^d marble w qtz in lts
+ grey sp.

834 cherty blcks w grey hardline sp?
red hardline Hsp?

Note: Much quartz bleached etc

North Pacific Supply Corp. 46 Level-4

924 C202 Silt under ground
silic^d (lms?) w grey sp?
still present as boulders

950 C203 Till on E bank w
alt^d qtz and blk

970 C204 RC blk pink + white
silica w grey cbbles

1180 part of creek on E bank
@ bend

1680 C205 Silt gravel under ground
few small lens. No obs any
quartz chert silic^d P?

North Pacific Supply Corp. 46 Level-4

Macmillan River distance from

yesterday along bank w fast moving water

[SW] 0 m (uphill area)

200 rock full

220 phyllitic just w local
carb frags + disc

270 onto bench (ok ahead?)

310 seep

450 gneiss phyll. oc

550 150/55 NE oc ch. phyll

627 175/60-80W

big ch. phyll oc,
oyster shell bedding

760 oc same

1010 C206 Silt Fair sized oc

Some siliceous "clast" w red
shales + grey gneiss

Some lms c. 65 lbs No big
blks. on benchy area

[UP TR] no m

1030 big red blks gneiss grey
sp. w/ siliceous

North Pacific Supply Corp. 46 Level 4

1200 oc in east side ck
gneiss phyllitic white phyllitic
w. marks + dark phyllitic

probably

1480 C207 Silt trib. fault
much gneiss flt

not trib but main ck
w low water

green phyllitic oc away bank

Park camp + wait down

North Pacific Supply Corp. 46 Level 4

PACKERS BACK ✓

by Camp @ ^{60°} 165° ± sphill

700m No 1 PACK 7+8

1200 ~~ATN~~ ^{CROSS} sample like 1999

1280 NS sample like "

1310 sample pit no fly

1500 sample pit mostly much

flatter here soil pit

more quartzite Mt

2100 soil pit dark phyllite

main redness

2600 soil pit thin & m. schist

@ D59

[SW] 0m

160m hit flat

600m R50 Good grey bn till
much like dark phyllite

Some rounded pebbles

[SE] 0m

350m R51 Yellish grey bn till

thin phyll to red qtz

no loss

✓ some mxd lens?
600 R52 Br till and fo clay
under 50 cm lens

810 lamell strat with
bark wood, pine + spruce
900 R53 Br till. mica lens
under 10 cm lens + till
mixture

+50m² large sub clay to sub rnd blades
of carbonaceous layered quartzite w
X cutting qtz vns + vns

1100 R54 Till Br. X lam dark
phyllite + qtz to rnd pebbles
in open eroded hillside
Now start blades of musc
qtzite w qtz vns

1250 blades becoming markedly greener
1300 R55 Dry fill beneath mxd
till + lens + soil
green chl = phyllite blades
green ve still qtzite
isoclinal folds in qtzite

@ 1100 m⁺

North Pacific Supply Corp. 46 Level 4

✓
1500 R56 Dry grey br till under
lens. Some mxd? No

blades in area
1700 R57 Coar grey till beneath
30 cm mxd lens + till.
X lam dark phyllite cps clay
to subund.

Cobble size qtz w cherty
qtz filling Fe stained.

1770⁺

1770 base slope

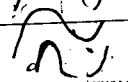
2020 chert

back up like to R56 where
R58 RC qtz vein w chl foliation
smear on edges + inside.
Fe stained vns + fracs.

@ R54 collect rock sample

R55 RC qtzite w weak Fe stain
many blades with very abundant
silica qtz vns + Fe fracs.

Qtzite blades high on hill hood is type
folding almost isoclinal.



✓
GTA to end of yesterday's line
Up valley along base slope
600m R60 grey bn till day
@ base slope

1100 R61 Till plus some loess?
road to clear pbbles
all oxd bn on apron
between steep hillsides

NW 0m
200m R62 Till oxd bn to bn
gnish grey w road to clear
muscular qtz schist (qtzite?)
Hillsides here very hummocky
compared to smooth steep
slope of yesterday

400m R63 Good grey till road to
clear pbbles, much dark
carb^s phyllite
Minor loess in hole

600 R64 Excellent Till Gnish grey
No loess in pine trees
Qtzite - Psammite rubble

North Pacific Supply Corp. 46 Level 4

✓
800m R65 Good till Break in
slope @ 710m. 410 cm thick
bottom 10cm is 100% broken
(subcrop?) carb^s phyllite

Several S R67.

Samples covered in till
as it's a till. Subcrop could
be till.

990 piece of shiny

1070 R66 Shiny dark phyllite
subcrop. Soil. Some TM

10cm to subcrop

R67 R68 from R65

[006°] no chain

that lying slabby white qtzite

OC on ridge line

Ice stained faces

344° to camp

left camp w Dave to float

Prospect near anomalously w52.

Dave went to S1 to start till.

~~He~~ Found w52 Dave top till to w51

w52 - no vrs by eye in soil. Dig 3 pits

to 70 cm depth. Caught Dave on granite rubble

Looked for skeletal qtz vrs in granite float. This was

No qtz a trace to sample. Qtzite or other quartz

North Pacific Supply Corp. 46 Level 4

@ Camp. ✓

286' 0^m

650 bank to main creek

300' 0^m

780 creek

300' 0^m

40^m approx bank main lower
silt near washed sand

240 R68 excellent Till gneiss

grey w carb^s phyllite cpo to
round pebbles

510 R69 Till dry br in with
much blue green psammite
to quartzite w qtz vults & cutting
+ Fe stain frag^s. (S)

blue blen dominant

R70-RL psammite chl^s (S)

660 blue blen white quartzite w qtz
vults & Fe frag^s

780 R70 Till w blue cps

carb^s psammite to phyllite

slip slope. Almost a soil

very minor sub round pebbles

North Pacific Supply Corp. 46 Level 4

990 on top of prominent hill. Very

flat lying psammite or with
numerous ~~small~~ fine carb^s
laminations. minor qtz vults +

Fe fragments

1070 in gully

1080 R72 Till in gully under top of

dark phyllite, qtz ± quartzite
1/2 in cps

1170 flat lying or quartzite w fine

carb^s laminations

1180 R73 R6 flat quartzite w flat

qtz-frag^s (→ ch) vein 5 cm wide
silic^s quartzite (S)

R74 nearby of silic^s quartzite

grey wisps carb^s (+ sd^s?)

This area is small mound
between main hill side +

hill just ~~over~~ crossed over

much quartzite here is gneissic
than rem^s? + qtz vults

1240 R75 Soil clay qtzite
to Till? good clay content
under mixed layer - till 30 cm
on base of SE facing slope

1360 R76 RC
Big OC 10 m flat lying
qtzite w Fe stained frags
cutting all angles throughout
Some carb frags locally.

1400 diametric $0.65^\circ \pm$

1450 R77 Good till yllw bn
many red pebbles some
subclan phyllite - qtzite.

North 0 m

280 2.0 m OC qtzite w
Fe lam^{ns}. Very flat lying
Fe X frags locally + weaker
than R76.

360 R78 same OC frags (S)

430 end

North Pacific Supply Corp. 46 Level 4

056° 0 m
10 m small oc very carbonaceous qtzite
to quartzitic phyllite w 1-2 cm qtz
w // schistosity. No X Fe

170 m R79 pale grey clay rich
Till or soil. All frags phyllitic
No real round frags.

local? till?

300 ck damp + wet mass

880 top ridge among 340°

400 R/80 clay soil to till

rich clay not much sand
mostly subclan silic^d psamm?
qtzite + phyllite Fair amount

Fe stain

500 clay qtzite slabs

660 R81 Soil to Till

all subclan to clay frags w high
clay content coating frags.

10-20 cm loss over

Frags on phyllitic dark to gash

North Pacific Supply Corp. 46 Level 4

810 start steeper slope

940 Thick size erratic Kspar^c
granite.

1000 R82 Very dark grey unoxid^d
Till clay from phyllite det

+ qtz sub clay to clay
Big quartz in det carb³ psammite

Continuum 0m

275 R83 Till clay + sub clay chl^s
psammite also musc.

390 bldgs phyllitic psammite
of a bldg?

600 R84 Dry perched Till + Slump

630 more bldgs phyllitic psammite

920 R85 Dry till, clay from
phyllitic psammite

Sides stepped from back

1460 ~~crossed this and stony line~~
lean back +

1200m to this rim stony line
where it crosses ok

North Pacific Supply Corp. 46 Level 4

Little Sashan with Dave for weeks

R86 Bit fines only. No sand

locus? Banks flooded. Good flow

[SW] 0m

170m R87 unoxid^d on gully fill

slightly wetted? on

red micaceous? sandy

NE - SW + Red psbles

600 R88 Sandy clayey

oxidized Till. Red psbles

900 R89 Till slightly sandy

on prominent ridge

- Red psbles. Under 60cm

wash + fines

1200 R90 Till first one w gird

clay rich matrix. Only minor

sand - phyllitic grey. Red

to sub clay mica phyllite - schist

On moderate w facing slope

1480^{ps} Wet Till clotted over

R91 organic bottom frozen

on steeper bank.

Same org^c

North Pacific Supply Corp. 46 Level 4

1860 R92 ¹⁹² Reworked Till or
presumed buried silt
in small gully on road slope
Sandy Brown bottom
Gully cross covered.
Deep furrows seen

2050 old Trail

2260 R93 RC 95% lit clay

(25) silic^d schist. Orange color
from spring on trail
R94 Sappy silt from spring
various Till?

2440 red sand under ash
just below hp small beach

2560 R95 wet Till, various
and pebbles no clay Bottom
clay rich bn. on trail

2810 washed sandy gravel

North Pacific Supply Corp. 46 Level-4

With Dave South Braden

2-3 km N along Mandale Hwy from

Minto turn west on dirt rd

Go 10 km to As Sb ck. Cut thro sho.
Walk to next ck to clear rd.

Keney hit 100' wide Eged line
prob' fire break 055°

[East] @ creek 0m

rd follows east bank ck to 300m

dig many holes 1m deep in sand

840 C208 80cm deep till

gray bn w quartz + small
lms cobble some qtz

090 C209 EC silic^d lms. w qtz

ms a few w open space filling

few blks chert pbble cgl.

much dark phylit

1130 firebreak

N along firebreak 100m onto hill

+ 0.6 in basal mafic describe

unmetamorphosed Cornelia sp?

Aspinio? Badly weathered

North Pacific Supply Corp. 46 Level-4

@ 1110 C210 Till much clay
+ gobby w/ some pebbles
med g. qtz

1210 + 1450 71m

1550, 1700 71m

2640 m + 260 P to top of bank
into com ck.

C211 Till x/Int. from
cut bank

Next day drove several rd w/ Dave until we found
access to top of hill above small lake on map.

Walked N around lake and - five back rd.

Ed looked for fox to see so went back to

begin sampling, Dave's Notes.

Took off five back rd and
to rd through.

Good rd in cut next traverse.

North Pacific Supply Corp. 46 Level 4

Frenchman Lake w/ Dave
walked around lake to East + S along
trail to first creek. Bushy
+ head 260° 570m to top

of steep hill

South 0°

100m dry creek

400± cut line

470 still on bench. meadow
about 50m gully to right

150 across gully to bench

270° 0°

360m weak gully w/ water (no flow)

600 within gully cut floor

7070 sandy hill hummock beside
damp gully.

NW no 0°

1450 C212 Till under

20 cm loess + 5-10 cm ash
on hummock

058° 0°

North Pacific Supply Corp. 46 Level 4

4:20 C213 TM under forest ash

8:40^m > 1 m silt + ash

9:50 C214 Dry fill and pills

on cut line

12:00 oc flat hyp basalt? gnde?

13:20 meadow

13:50 C215 Dry Till under loess

14:80 river edge line hdg for

end of lake

15:10 oc ash

17:10 oc ash

18:00 kettle, measuring ashwash

22:20 + 240^m to lake

Aug 27 Start of Scaggie sampling

near Run Row 21-40

- to extend + tie in to Y1-Y50
collected in 1999

- South of airport across etc on
failing pile found sub angular 1/2 m

Most on pile: rusty grey-bio-b
peg with diss^s have SD^s.

py - pyroba copy?

Also vugs w v small xls many with
5% sp overall

Vphill

0 m bank of Scaggie

Followed broken string line up ridge past
N-S drain line from this spring.

Ridge string pool's Daves location string
for start of Y line sampling.

@ 450 m hit string line 40m S of Y49

- followed this line from Y49 to
start of line + then up 20m to Y1

At Y1 (1999 sample)

Contain to w 0 m.

55 m B1 light bn gravel soil
- angular chert qtz matrix schist

wreakly rusty, flt also sub and massive qtz.

105 m B2 gravel red-ylw silty soil
- lots of angular chips of qtz-musc ^{AMS}

w/ bio. Phyllite + schist and angular massive

qtz - some coarse peg.

130 to 145 - talus + subcrop qtz-musc-bio -
phyllite - schists.

175 m B3 brown silty soil w argon

220 m B4 " "

angular flt qtz-musc-sch
some qtz-fspar-musc peg (rusty)

285 m B5 brown silty soil
slightly rusty AMS angular eps

330 m B6 bn soil. Llan eps AMS

380 m B7 bn some some organic
w angular rusty AMS

400 m B8 fg slightly noddy
silt from small

scrap flug s,

North Pacific Supply Corp. 46 Level 4

440 m B9 bn soil gravel Llan AMS eps

500 m B10 red bn silty soil
abundant Llan eps + flt

subcrop to OC rusty AMS w 2-3%

fg chas py B11 re chas AMS

more qtz-musc rich than previous
samples.

B12 strongly rusty AMS thin
flaky schistosity - silicified w

5 mm qtz vesicles almost

1 schistosity. Silic vuggy kyero

2 schist - 10% bright red

- mineral throughout hematite?

- approx - 160/80-90 NSW.

550 B13 bn soil. Some Llan
AMS frags

605 m B14 bn soil some Llan AMS eps

650 m B15 - same as B13

731 m B16 - bn silty soil some
Llan AMS fat.

740 m crossed down line (NS)

780 B17 same as B16

North Pacific Supply Corp. 46 Level 4

830 m B18 bn soil w angular sch
trap (soil + trap darker +
less rusty)

885 m B19 " " " " "

930 m - permafrost NS

980 B20 bn part organic soil

1030 permafrost

270' to med. no rust

1130 @ med weak flug dl

B21 f.g. sandy silt

80% flt is med-dk gray

thin fol^d sch

10% bleached, slightly rusty

"greenish" flt.

180 gnd

230 gnd

251 med

1 1/2 slightly rusty musc sch.

headed down to 300 m

• 180-220 blocky talus subcrop

fol^d bit green

230-240 fol^d gel subcrop

251-255 mixed gns + gredinites

Put up flag for start

next tomorrow. Out to Anvstop

North Pacific Supply Corp. 46 Level 4

At ysterdays flag

090° 0 m

50 m sub crop brittle gns - some peg

B22 1 ft bn soil - much musc in soil

Continuum no 0 m

110 m B23 red^{sh} bn soil lots of musc in soil

205 m B24 bn soil - musc in soil

235 m N-S cleave like ~ 30 m N of posts

255 m B25 bn soil 1/2 in sch

frag's in soil.

320 m B26 light bn red soil

- 2/3 up it rusty, thickly fol^d

QMS.

370 m B27 1 ft bn red soil

some organics in sample

450 B28 1 ft bn red soil some organics

475-500 m 1/2 in flt to subcrop

if rusty, bleached QMS

505 B29 1 ft red bn soil - lots of

1/2 in rusty QMS eps in soil - 20 cm

darker flt rusty from peg

550 B30 similar to B29 only 4 in
soil not so rusty.

North Pacific Supply Corp. 46 Level 4

600 m crossed small creek along N
(99-22 creek)

605 m B31 lt red-bn soil
- lots of clay rusty QMS clay

660 m B32 bn soil w epa mus sch.

690 talus ft of seric-biot-sch
looks unaltered.

725 m B33 bn soil

815 B34 " "

930 B35 " "

1070 B36 " " slightly org.

1170 B37 bn silty soil from
tip-VP, clay ft of c.g
frozen + chl-bio-sch

1230 hit claim like NS 20m N
of Run Run 25/26 No 1 posts.
cut to Scripps.

North Pacific Supply Corp. 46 Level 4

@ Post No 2 Runrun 29+30

Went 0 m Auger

67 m B40 Org^s highly mica^s rky
gritty soil under tip w

1/2 m deep getting frozen

much clay epa + pcs chl-mica

like green to grey green w pink
lamination like cut below

Continue to N 0 m

110 m B41 mostly frozen soil gritty
w minor org^c

130 pcs QMS in seep

160 B42 much finer yellow gnd soil
tr org^c.

210 B43 wet soil under seep
70 cm deep QMS? clay epa

Bn w some org^c material

275 B44 wet mica^s gritty soil
w fair org^c? dk bn grey

pcs QMS 1/2 m
fair slope 15-20° slope

North Pacific Supply Corp. 46 Level 4

- 325 B45 Rich yllw orange soil
w QMS. No org^c
Caribou moss 25°-30° slope
- 375 B46 yllw soil all QMS eps
shallow 30° slope
nearby cl. line
- 385 cl. line
- 425 B47 Bn wet soil 10-15° slope
Caribou moss ~~shallow~~ not yllw
QMS eps few in gritty soil
- 475 B48 Bn soil damp. 10° slope
Caribou flt. QMS?
- 525 B49 wet bn soil w QMS
10° slope Soil on top of
organic horizon? standing
@ 1/2 m?
- 545 1/2 m QMS visible (S) B49
- 575 B50 wet yllw bn soil
Sand org^c 10° slope
QMS eps
- 625 B51 bn soil 5-10° slope
ryl soil on top organic layer

B.36

- 675 B52 5-10 slope yllw
bn soil 10-15 cm thick
saturated + lying on org^c layer
partly frozen
- 725 B53 org^c? bn grey soil
w ric clays 15° slope
Soil over org^cs
- 785 B54 yllw soil 25° slope
have climbed part room
to get steeper
Soil rly w QMS
- 840 no soils in area mossy
- 915 B55 very wet cold gritty soil
QMS eps 15° slope
small patch Caribou moss
Some org^c in soil
- 965 B56 very wet cold gritty soil
15-10° slope QMS grit
difficult soil area much less
opposite kokanee CK
- 1015 all frozen all around

angled up to big trees

1160-85 organic gritty soil

no samples for much org^e

1115 B 57 wet gritty good soil

w/ minor cps @ 115

1165 frozen layer

1200 B 58 bn soil w grey musc

gneiss some yellow

fair amount at 3

some org^e in soil

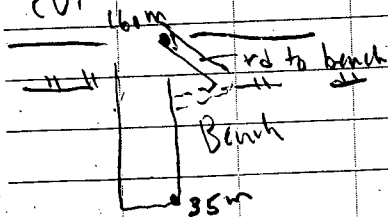
in bottom old dzer push

@ bench of gentle slope

East 0 m

35m SW corner small
dzer chng on bench

CUT



North Pacific Supply Corp. 48 Level 4

50' rusty

520

Δ B 61 banded gneiss w 1-2" py

very rusty 60%

400m

musc-hbd-bro fspn gneiss
much rusty bld 35%

300m

high sd bld have py f¹ in 2" seams
rock w dense hntfs like

rusty py + qtz vns to 2"

Δ B 60 gneiss w 25% py, hntfs seam

Δ B 59 gneiss w 2" hntfs py, hntfs
more chng much rust 25% f. bld

200m

Some x cutting Fe layer
Some Fe py.
Some gneiss

bld + hbd fspn gneiss

py w py + Fe stain
some py, hntfs

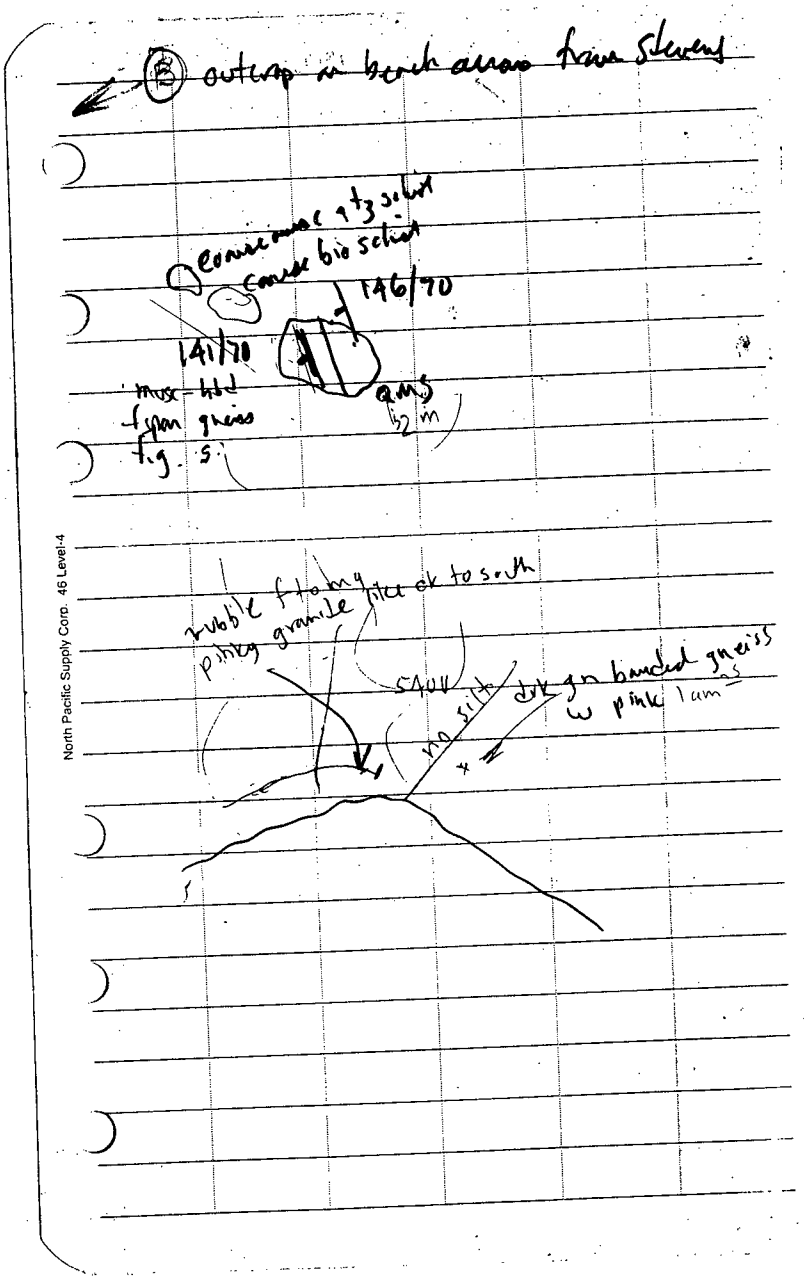
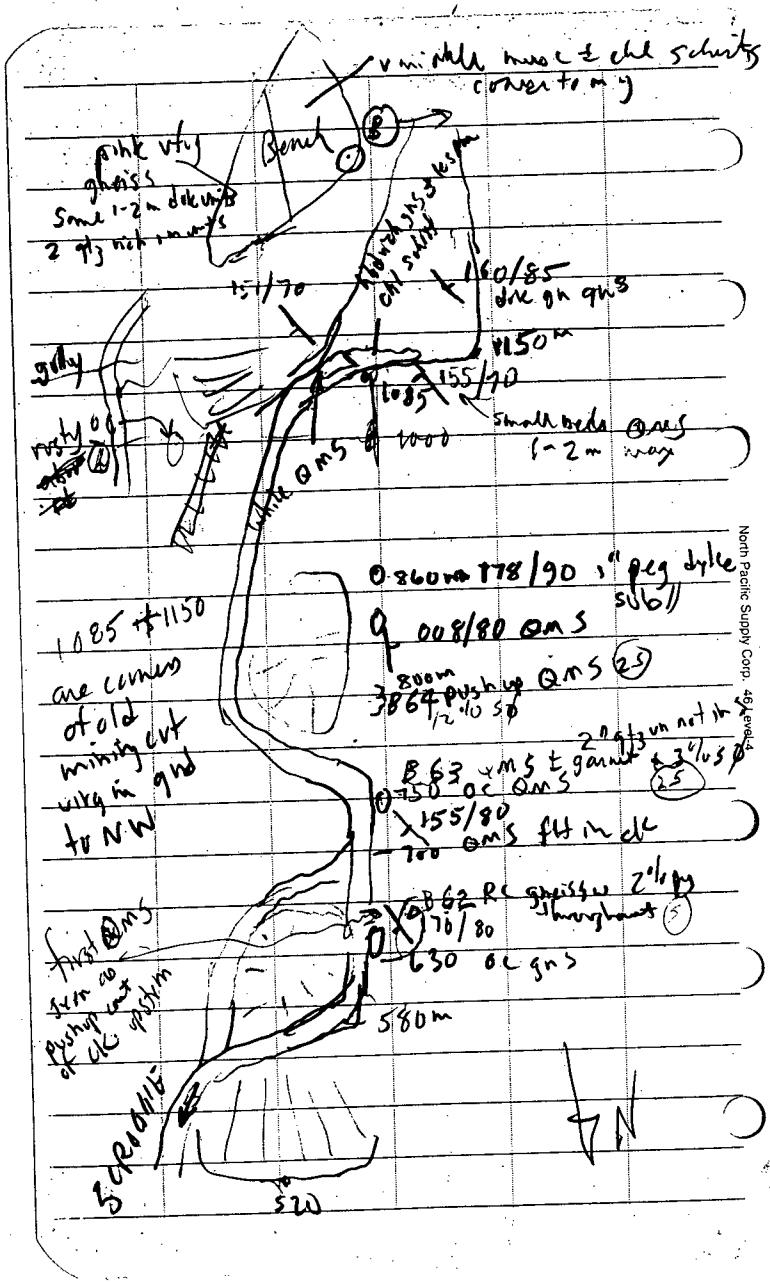
by B 60 large bld
banded w f d? (A) 2

110m

sh fspn
gneiss
rusty rx
are py
w hntfs

+ qtz vns
cutting gns = Bench

North Pacific Supply Corp. 48 Level 4



Adg uphill along rd behind JB's
camp

50^m E-W cut out like w record
plugging

No. 1 post 1 mile place lease
found 500^m SW of here.

115/55 NE QMS along main rd
100^m W of creek that lies W
of JB's camp.

old trail well made heads up hill

115/55 To west from just below Z-dam
1 mile lease No. 1 post

1/2 way to JB's camp is a quarry
on uphill side w flat lying QMS

125/48 NE

fig. compⁿ layering

with patches of stain strong

all rx coated w yellow stain

plan overburden 1-2 m

100^m BT1 soil QMS also visible

rd hdg 335°

200m B72 soil AMS eps

qtz cobble clay

300 B73 soil AMS eps

SPRINT/NOV/11

rd. NW

hds W6°

Some chl - qtz - fsp - musc schist
part 150m. Some way

mod dark c.l.

Some psammite?

360 B74 R.C. Llan wobble

5-10m zone in bank

silic² + limon fractures (25)

then no rk

then chl. phyllite

400 B75 soil sporadic Llan wobble

since B74. Much has frags

limonitic cl. Llan

450 rd hdg around sldr of hill

135/25 NE chl fsp + gneiss

amphibole? Epd frags

525 B76 soil bank at rd

swirl on musc. gneiss

fabic w low limonitic

fractures subcomp area

North Pacific Supply Corp. 46 Level 4

rd crosses to right around hill

610 B77 soil a fsp - musc -

chl psammite?

700 rd main hds 060°

B78 soil much qtz some

w good limonite. All Fe stain

one small gravel peg bldr

in Llan

gentler rd grade

hillside to NW

740 many peg bldrs r. ramp?

800 B79 soil in rd

false gneiss w frags

+ peg

820 first flat. Rd swings to W

900 B80 soil in rd

musc gneiss w qtz prot 100m

1015 B81 soil in rd red bn

Llan eps false gneiss w local

frags. Peg bldr

rd hdg 035°

1110 B82 soil Llan false gneiss

w frags limonitic

North Pacific Supply Corp. 46 Level 4

1210 B83 Soil on rd
felsic gneiss or wk low fracs

clay peg

1305 B84 Soil on rd much

peg rubble part 100 m

1405 B85 Soil not much clay or

Some peg cobbles

1490 OC peg in rd

1510 B86 Soil on flats "no" rubble

1610 B87 Soil " " " "

1705 B88 Soil. med peg +

felsic gneiss some fracs

1805 B89 Soil not much or

Some dead chl amphib. sp. gneiss

1910 B90 Soil

2050 B91 Soil gray big med-

sp. gneiss rubble

2200 B92 Soil on top

f.g. felsic gneiss rubble

low limonitic fracs

2250 rd bends to 285°

Stash samples; walk back for ATV

North Pacific Supply Corp. 46 Level 4

① @ top of hill behind (N) JB's camp

105° 0'

910 m large OC of gneiss some

large hbd lath to 5 cm

002°/50 E fol.

615 015/46 E f.g. hbd with gneiss

790 end of rd above (N) Ramona

Manupusa camp

OC hbd from gneiss c.g.

hbd to 5 cm locally

15 m B93 Soil silic^s felsic gneiss

w abundant hairline limonitic fracs

745 B94 Soil rubble here + from

start med qtz sp. gneiss

w qtz med + fracs lim^s

215 hbd some gneiss crosses rd

300 B95 Soil med qtz sp. gneiss

430 peg rubble oc

440 B96 Soil start big hbd gneiss

+ peg

715 B97 Soil felsic hbd gneiss

+ peg low fracs lim^s

North Pacific Supply Corp. 46 Level 4

850 B98 Soil mod frg wbd gms
+ peg on flats between hills

930 top of hill grey frg gms
rd hnds to right 235°

1000 B99 Soil no rubble area
start peg rubble

1140 B100 Soil peg rubble
+ QMS

1200 rd hnds 135°

1280 B101 yllw soil on QMS
Peg slipped 20' back

1380 B102 Soil on switchback
QMS, ± peg rubble
lin & hnds obvious

1480 B103 vsh orange soil
Xllnt QMS ± peg

1560 next switchback

Down hill

1580 B104 yllw soil

1680 B105 Soil QMS
on old dugout

Clay rusty peg made bld

1780 B106 bn soil

1880 B107 yllw bn soil

1980 B108 grey soil chd silt
rubble cps

2085 & rd grey gms
5.6 mps no soil sample

FIELD NOTES
2000
YUKON
D. BENNETT

- 1) Silting Drainage basin to the N of Mariposa Cr - at end of road up Mariposa
- 2) 090 to top of ridge
Lower for approx 1600m
@ from ridge to 1000m
- 3) sub-s.c of granite with lots of +20cm wide boulders of massive white qtz. - approx 1600m
C1 sieved silt from small to med creek flowing N - granite float ~~for~~
- contained containing Eward ground 1095
- 4) - 60m C2 f.g. sandy silt sm creek
- 85m crossed N-S cut line
- 5) - 255m C3 f.g. sandy silt sm creek flowing NW
- mainly granite flt, 5-10% dia. phyllic-schist, 5% ~~peg~~

North Pacific Supply Corp. 46 Level 4

3

- 500m C4 f-med gr sandy silt

Sm creek - Flowing NW

float 60% granite

~~10% pegmatite~~

~~10% extremely mixed seric schist.~~

15% dk grey phyll/schist

- headed N for approx 600m

C-5 sieved silt from main creek
draining off pyroxene mtn. Flowing W

float mainly potassic granite with
minor pegmatite

- continued W. rec'd to On

- 350m dry gulley

started following gulley down to main ck
rec'd to On

- 500m at main creek

C6 f.gr sandy silt.

float mainly potassic granite

- [2.70] - 150m at main trib. Flowing N

- 150m further upstream

C-7 f.gr. sandy silt

- 80% ^{60%} granite + ^{20%} pegmatite, 20% phyll. schist

white + pink granite

pale grey green to brown

North Pacific Supply Corp. 46 Level 4

heading W along S side of main valley 3

- approx 600m - hit E-W cut line of stn

○ "1-000S 2-650W"

followed to W. - 775w - granite talus

at 2-800w hit creek

○ C-8 f.gr sandy silt.

float coarse granite (ol + quartz)

pegmatite in places) Some white
crs grz-feldspar granite w/ blk fuchser

w 3% whitish silver mineral (traces?)
biotite

- rec'd to On

- headed W

- 375m sub-crop diorite schist - slightly
hornfelsed w. thin (1cm) apl. + H dykes

at Hing

○ - 900m C-9 f.gr sandy silt

from med cr. Flowing N

float mainly potassic granite

○ - 1000m C-10 f.gr sandy silt from

W. fork Flowing E

- float 80% granite (peg), 20% biot.
schist

○ C-11 f.gr sandy silt from 2nd last creek
on mariposa Rd. Flows off of PYREX claim

North Pacific Supply Corp. 46 Level 4

○ SHIMMIE STEVENS CR (SOUTH SIDE)

- C. 12 :- 3rd trib upstream from Scroggie
- on S. side of stream flowing NW
- f-med gr. sandy silt
- chips in silt approx 70% garnet spgr. 30% chl. biot schist.

- - headed up Stevens Cr. Valley on S. side
- 300m C 13 f. gr. silt collected from moss mat in creek flow.

- 575-600m biotite schist to gneiss sub-crop
- 725-800m intermittent sub-crops of foliated biotite orthogneiss to granodiorite

- - 1000m biotite orthogneiss sub-crop
- 1100m C 14 v. f. gr. sandy silt from med creek flowing north. Silt collected from moss mat.

- reset to 0m → heading upstream on W. side
- 250m sub-crop biotite schist/gneiss

- - 500m any. Mt potassic gneiss
- 700m at trib. Flowing NE into main creek

C 15 good moss mat silt. plant 85% musc. biot schist, 10% potassic orthogneiss, 5% pegmatite, minor apatite

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A

- continuing up main valley on S. side

- reset to 0m

- 600m at trib. Flowing d/c N. into main creek

C16 = f.g. sandy silt

65% misc. bit schist

25% potassic orthogneiss

5% aplite

5% massive white interfoliation quartz
(2-3cm wide)

NOTE: approx 75% of float in creek

is rusty - creek rising bottom

- continuing eastward up main valley

- 1200m - main creek curves to South

- C17 at bend in creek

f.g. sandy silt

- float similar to C16 creek valley

slightly higher % misc. bit schist

- minor amounts hornblende with long
interbedded hornblende veins (1-2cm long)

- several spots of stained chalcopyrite $\leq 3\%$

- steep slope on SW bank w/ very float in SW
of ^{qtz.} divide w/ 2% f.g. - ass. pg.

- reset to 0m - heading NE to next valley

- 200m on saddle - 300m C18 f.g. silt from end of

Flowing N. ^{qtz. fld.}
float: 65% pegmatite, 20% misc. schist, 15% potassic granite

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STEVENS / SCROGGIE CR. SILTING (S. side)

- Approx. 1000m upstream on Stevens Cr.
from Junction w/ Scroggie Creek

headed S - climbing ridge just E of

C18 creek

- 1000m crs. gr. qtz-bit granite (sub-cnp)

- 1325m sub-cnp crs. gr. qtz-bit orthogneiss
(foliated granite)

- 1390m sub-cnp crs. gr. qtz-bit gran

- 1455m sub-cnp slightly potassic crs. gran

- 1500m at crest of ridge at approx 3000'
elev.

headed 090° reset to 0m

- 500m C19 f.g. mixed regular and muss

mat silt - float mainly granite
+ pegmatite - 20% schist (chlor-bit)

reset to 0m started heading down valley

on E side of E19 creek

- 100m C20 v.f.g. good silt from

San. creek bubbling out from mass

flowing NW - no consistent flow in
creek location (mainly dry)

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- 600m C-21 f. med gr. sandy silt
from sm. creek flowing NW

- float mainly granite + pegmatite
10% misc. bit schist

- 1350m C-22 f. gr. sandy silt from
main creek (combined regular + moss mat)

C-24 - 40cm angular boulder (sub-crop)
pale pink - felsic-rich intrusive ?? w.
on E bank of vuggy gte lined

rusted pyrite (<2%), 10% steel silice
coloured bit. and 1-3% disseminated blk. silic
(possible cassiterite?)

- started contouring around slope towards
Scroggie Cr.

- reset to 0m

- 750m - C-23 - moss mat silt

- float mainly gran + peg

- 1400m at junction between Stevens
+ Scroggie Ch.

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○ Slitting creeks on SW side of
upper Scroggie.

○ At junction w. Murphy Ch.
- heading SE on SW side of Scroggie

- 150m blocky talus sub-crop crs. gr.

potassic granite

- 500m at first trib. valley

- angular float of pale felsic biotite

- misc gneiss - crs. gr.

- 650m C-25 - moss mat silt.

sm. creek flowing NE

- float mainly granite + gneiss

○ - 1150m C-26 - f. gr. sandy silt
from very sm. creek flowing NE

- float mainly potassic granite + peg,

gneiss minor amrs. phyl/sch

○ - 1750m C-27 f. gr. sandy silt from
large creek flowing NE

float - 20% pegmatite (grt-plag)

← 25% felsic - mt. pale cream to mason coloured
volc. tufts, intrusives

(some grt-eye porphyry, some opt. ric grt-plag)
30% misc. bit schist, 15% quartz porphyry, 10% gneiss.

50m vegetation
+ small boulders
at tufts
w. grt eye

6

- 2000m qtz-bit gneiss subcrop
 - 2350m C 28 fgn. sandy silt from

med. creek flowing NE

- similar float to C 27 creek
 - 2400m qtz-bit gneiss subcrop
 - 3150m C 29 fgn. sandy silt from

med-lg creek flowing N.

- float similar to C 27 creek
 only less pegmatite + more felsic vx.

- 3600m - subcrop felsic intrusive (apltite)

- 3700m C 30 fgn. sandy silt from

med-lg creek flowing N.

float 35% biotite schist

25% qtz bit gneiss

25% felsic - mt vx. + intrusives

10% andesite porphyry

5% pegmatite

- reset to 0m - headed West

- 200m 50m long x 15m wide slide

angular float (subcrop) in slide of fgn.

hbl. gneiss vx < 1mm x-cutting white fractures

- aplitite + pegmatite dykes cut the

- gneiss - pegmatite is white and consists of
 very coarse graphitic textured translucent qtz + plagioclase (cl + red + clay on weathered surface)

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6

- 600m at C 29 creek (approx 250m upstream)

- 1600m C 31 fgn. sandy silt from
 med-lg creek (1 km upstream from
 C 28) float same as C 28

- Reset to 0m - continuing westward

- 1100m at upper fork of C 27 creek

- small canyon at creek -

- qtz - muscovite schist with
 C 32 rusty massive interfoliation quartz up to
 30 cm wide foliation 120/80 N

- C 33 fgn. sandy silt from
 large creek flowing N

float 30% felsic - int vesicular vx but
 qtz-cyt porphyry intrusives
 some very rusty and massive calc.

40% schist + gneisses with
 purple gt 3m to 10+ mm.

25% hbl. gneiss vx angular

varying in size depending on ck.
 (up to 25cm).

headed NNW for 250m

C 34 mass mat silt from N. fork of C 27

med sized creek flowing E
 = lots of pegmatite + felsic granite flx., less schist gneiss

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6

reset to 0m - headed NW for 700m to
top of ridge

headed N down ridge on E side of creek valley
+ reset to 0m
300-400m take subcrop below mass of

qtz-musc. - biot-grniss

- 700m C 35 mass mat silt from San creek

Flowing N. - Floor mainly qtz-musc biot-grniss

W. minor pegmatite.

- continuing down valley.

- 1200m C 36 mass mat silt

same float

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Staking RUM RUN Claim blocks

○ On main rd N side of Scroggie Cr. near
junction of Scroggie + Menaposa Cks

- headed N.

○ - 80-90m crossed old rd - slightly rising
subcrop of platy musc. sch.

- 280-290m crossed old rd heading NE

○ - 490m started dropping into creek valley

Flowing W.

- 450-680m approx continuing

- 680m C 37 fine sandy silt from

San-creek flowing SW

float 10% platy lt. grey schist

60% musc-gr. sch. silt/grniss

20% light green

10% potassic pegmatite (qtz-filled)

○ 700-800m subcrop rising pegmatite - clay

alt^g w/ strong rust - some silic^g +

○ qtz veins

○ 915m put in ND. 1 post RUM RUN S1+S2

090°

○ - 135-155m or qtz-biot schist/grniss

up to 20cm wide massive white qtz veins

fol. 160/43 E

- 1160m crossed creek flowing SW
- 400m at ridge-top
- 415-420m crossed N/S rd
- 460m put in NO 1 posts RUMRUN
S3+S4
- 833m C-58 Lgr sandy silt
from source flowing S
- float mainly pegmatite, granite, schist
- 910m put in post NO 1 → S5+S6
- 1300-1310m old NW-SE rd.
- sub-crop rubble in rd. - bleached schist
w. rusty pegmatite
- 1360m put in NO 1 posts S7+S8
- 1830m put in NO. 2 posts S7+S8
- 2080m C-39 Lgr sandy silt from
med creek flowing S. (near McPherson
claim - float 80% dk brown, slightly
rusty schist (misc - biot.), 15% peg.

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T.E. #1

- on road heading up to Cabin. Ch. N side
- 600m up road - Dozer trail heads to N.
- At top of Dozer trail. heading S.
- 0m - E-40 - red-brown soil over sub-crop
of rusty qtz-feldspar pegmatite w.
1-3% f. gr. diss. Ag.
- 20m - C41 intense clay at top, fracturing, and
limonite alt. of pegmatite/sericite schist.
- 25m - C42 red-brown soil - qtz rich peg. Alt.
- seric. schist float (rusty & fractured)
- 27m start of sub-crop dk green amphibole,
qtz, feld gneiss (60% mafic index)
mainly hornblende
- 30m felsic horn altitude 120/50 NE
- 35m " " 123/50 NE
- 37-40m section of bleached schist (seric. schist)
with qtz-pegmatite centers
- 50m C43 brown soil (lots of iron in soil)
- At Claim Line RUMRUN 37/38 where it crosses rd.
NO. 1
- 360' following claim line. - 1000' at post 39/40
- 1900-1920' angular boulders (sub-crop) rusty
qtz-feldspar pegmatite. Looks like trench
- 2050' = 1m boulder with qtz-feld. pegmatite

TE

At RUMBLE 3940 No 2 post

[045] west to 0'

- 265m at ridge top -

C-44 brown silty soil

- subang flat of granite-gneiss w.
biotite.

- west to 0m - continuing @ 045°

- 55m C45 brown silty soil

- 100m C46 " " " rock chips
biotite schist.

- 150m C47 brown silty soil

- 175m angular boulders of feldspar pegmatite.

- 200m C48 brown silty soil - ang. peg. chips

- 240-255m Exp crop grt-feld peg.

- 260m C49 light brown soil - ~~peg. chips~~

- 305m C50 light brown soil - ang. chips
rusty seric. schist.

- 315-850m boulder grt. feldspar pegmatite tabs.

- 355m lt. brown soil - C158

- 400m C159 " " "

- 453m C160 " " "

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TE

500m C161 lt. brown soil

550m C162 brown soil

600m C163 " "

630m hit contour string line 5m

SE of Sample X-11

660m C164 brown soil from top of
boulders rusty pegmatite.

700m C165 brown soil

750m C166 " "

800m C167 " "

850m C168 " "

900m C169 " "

955m hit contour string line

60m NW of Y 78.

1015m C170 brown silty soil

1020m at N-S claim line

1050m slope flattening at - possible bench

[0909]

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SUMMIT LAKE CAMP

- On trail approx 700m W of SB creek
135° - 500m small pond 50-100m E
- 900m dry creek
○ - 980m dry creek
- 3030m D1 grey brown tM - some
shard gtz + phyllite pebbles
○ resist to 0m - continued 135°
- 300m D2 grey brown tM - some angular
phyllite fragments
- 600m D3 brown grey - mixed soil/hill
- ang. lt. grey phyll. fragments
- surface flint in area - ang. phyll
w. some interfol^o gtz
○ 125° - 700-1100m massive white gtz fr.
860m at top of hill - outcrop of
D20 → bleached, weakly rusted + silic^o phyllite
with sulfides weathered out - interfoliation
D19 → massive white gtz. w. rusty weathered
sulfides occurs sporadically throughout e.c.
○ (outcrops 840-880m) foliation 025/20E
- 900m D4 - brown-grey mixed soil/hill
- 1100m started to drop into next valley

- 1175m D 5 grey brown till
- 1300-1350 - massive gte flint
- 1490m D 6 grey brown mixed till/silt
lvs of angular debris in phyllite chert
- 1780m D 7 grey brown till
- 1835m at small creek flowing NE
no silt.
- 2090m D 8 grey brown till (probably)
- reset to 0m Started continuing to NE
- 285m - D 9 grey slightly arg. till
- 590m - D 10 grey clayey till
- 700m - crossed sm. ruddy creek no silt.
- 900m D 11 grey clayey till
- 1000m reset to 0m started heading
NNW down ridge
- 885m D 12 grey brown till
mixed rounded boulders appearing on surface
- 600m D 13 " " "
- 900m D 14 " " "
- 1200m D 15 grey slightly sandy silt

- 1500m D 16 grey clayey till
- 1800m no sample.
- 1935m D 17 Arg. sandy silt from
med creek flowing N floor mainly
Amphibole, granite w some gte.
most floor is rounded
- 2200m headed to E for approx
150m to 2nd fork of creek.
D 18 Arg. sandy silt
flint rounded mixed metamorphic
gneiss w some gte and quartz
flint

- Sampling hill to N. of camp hall
- - Started heading N along E side of wide valley immediately N of Summit L.
 - 1 km N of hall - crossed E-W cut line (ER boundary)
 - - 2 km N - D 21 fine sandy silt from sm. creek. Flaming W. - float mix of rusty, silic^d phyl/sch and less altered chloritic schist.
 - - headed E for 2.5 km to top of 2nd hill - reset to 0m
 - headed NW along ridge
 On - D 22 grey grey slightly sandy fill
 150m at top of hill - phyllite and massive gtz flt.
 - 300m D 23 grey clayey fill
 - angular grey phyl. float on surface
 - 600m - D 24 grey brown clayey fill
 - 900m - D 25 grey-brown clayey fill - massive gtz float
 - 1200m - D 26 grey brown clayey fill
 - 1500m - D 27 grey brown clayey fill - massive gtz flt.
 - 1650m - started dropping into creek valley
 - 1790 - D 28 grey brown slightly sandy fill
 - 2100m - D 29 grey-brown fill
 reset to 0m headed W towards creek.
 - 2400m - D 30 fine sandy silt from road cut
 Flaming N. (2600' elev. of 56 Ch N. side of Camp Hill)
 - float 40% flaked rusty ferr. phyl./schist, 40% chloritic schist
 10% sub-rounded gtz, 10% rounded mixed float

reset to 0m

- Contouring to West -

100-700m - blocky talus - sub-crop

of chromite to pale brown phyl/schist
slightly rusty in most places

2000m - back at D 21 creek

Sampling hill to NE of camp

○ At Sample D 22 - heading S.

-220m D 31 grey brown clayey hill

310-340m angular flt (sub-crop?) of

○ D 32 - silic^d phyllite w/ titanite fractures and
qtz fractures, x-cutting foliation

450m D 33 rusty angular qtz flt.

weathered out pyrite cubes

580m D 34 brown-grey sandy hill

- ang. + sub-renal phyll. fragments

580m D 35 grey clayey hill

- ang phyll flint in area

1195m D 36 grey clayey hill

1365m D 37 angular flint of

recrystallized kint w/ titanite
weathering in some fractures

1430m slope starts to flatten out

○ 1495m D 38 good clayey hill

- Sampling along IR cut line due N
 of northernmost point of Summit L.
- D 39 grey clayey silt - aug. chip of
phyllite w. qtz
 - headed W. along cut line.
 - 305m D 40 brown grey partly sandy till
(under 75cm of loess)
- some rusty, silt, phyll/schist chips in till
 - 475m at low marshy area - no flow.
 - 600m D 41 grey-brown slightly sandy till
under 50cm loess
 - 820 to 895m flat slightly marshy area
 - 895m D 42 grey clayey till below
65cm organic clay - rounded phyll + qtz fr.
 - 900m - sandy outwash under 60cm loess
 - 1120m swampy creek flowing slightly
to S. - no silt.
 - 1160m started up small hill
 - 1200 - 1375m outwash - no sample.
- 1335m hickory pad.
 - 1400m D 43 - grey brown clayey till
" " " "
 - 1685m D 44 - " " " "
 - 2010m D 45 - grey brown slightly sandy
till
 - 2158m at top of hill

- 2310m D46 grey-brown clayey till
- 2530 swampy area
- 2550 haltpad
- 2550-2670 thick organics - no sample
- 2720m D47 grey clay till
- 3020m D48 " " "
- 3310m D49 " " "
- 3330-3395m swampy creek flowing
no silt
- 3600 D50 grey clayey till
- sub-ang dk grey chert pebbles
- 3750m at plateau elev.
- 3900m D51 brown grey slightly sandy till

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SUMMIT

At R 48 - heading ~~S~~ S

- 95m D52 - grey brown slightly sandy till from beneath 40cm loess
angular chips in soil of bleached, siliceous weakly limonitic schist/phyll
- 160m slope flattens out to thick moss and permafrost.
- reset to 0m

090°

30m D53 brown-grey slightly sandy till - ang. phyll/schist chips weakly used.

500m thick org. + loess - no sample

-reset to 0m 360

-50m D54 brown grey sandy till from below 70cm loess

-115m crossed main trail

-145m crossed 2nd trail

-150m D55 - reddish brown sandy

mixed soil/Hill - loess on angular chips of bleached, limonitic, siliceous phyll?

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- 250m D 56 brown grey slightly
sandy silt - ang chips in silt
slightly less alt^e (samize?)

* Back at main trail ~~to~~ S of D 55
headed W along trail

- 250m D 57 brown grey sandy silt
alt^e chips in silt.

- Note: angular bleached, limonitic fracture, silic
float with occasional big massive wh
qtz flt. occurs throughout trail
from R 48 to D 55 area

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DAY 1 - PELMAC RIDGE (W. end)

○ Sampling with Guard.

At amonibous creek on SW corner
of Pelmac Ridge region approx 2.5 km
upstream (just above junction with
tributary to S).

○ A 26 fine sandy silt med. creek
flowing W.

Float 80% granite, 10% weakly
limonitic, beige platy musc schist.

5% pale quartz w. some limonitic
fractures, 5% altered limonitic, silic^d
rt (including qtz).

○ More tributary to S was barely flowing
and swampy in E-W section - then into

○ 150m pond at corner to N-S section - o.c. along
NE edge of pond was beige-grey weakly
limonitic quartz - angular granite float

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2

1020°

- 30m A 27 - brown mixed silt/tm
- sub ang. quartzite phyllite
- lots of muscovite in sample

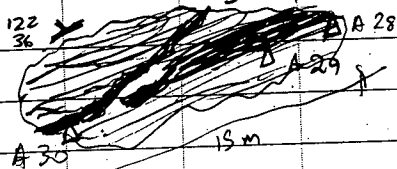
- 250m 5m bluff (outcrop) of rusty silicified grt vein system.
- up to 1m wide rusty grt // to foliation within pale musc.-grt schist.

- Foliat² 122/36 NE

- Smaller grt veins up to 10cm wide X-cut foliation.

SAMPLE A 28, 29, 30 from NE to SW

over 15m along dip of system



≈ 290m at top of steep slope

- 335m A 31 grey brown clayey tm
- some app^l schist fragments
- 580m A 32 grey-brown clayey tm

3

- 890m A 33 grey brown clayey tm
- 1020-1155m across top of hill
- 1155m at highest point
- 1160m A 34 brown grey slightly sandy tm

1450m no sample permafrost

1500 " "

1550 " "

1600 " "

1650 " "

- Reset to 0m - started continuing W.

- 300m A 35 brown grey clayey tm

from top-up.

- 620m A 36 brown slightly sandy

+DI? (very fine - might be loss but has some small pebbles) depth 70cm

- 720m crossed sm creek flowing NW

no silt.

- 820m A 37 brown slightly sandy

tm

1210° reset to 0m

- 300m no sample

(4)

- 370m A 38 brown grey clayey till
10 m above steep slope.

- 400m started dropping down
some loamy slope.

- 640m A 39 reddish brown clayey till.

200°

- 900m no sample 50cm loess,
50cm ash?

- 925m A 40 brown grey till - ang. flow
of chlorite/graphitic schist.

- 1025m outcrop of bleached & weakly
limonitic musc./ser. schist.

Foliation 084/55 N.

- 1190m A 41 brown grey slightly
sandy till - some subang. granite float.

- 1370m at main creek - no silt

- good blow but mossy organic bottom

- float of granite, musc. gtzite schist,

chlorite schist + some massive white gtz.

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DAY 3 - PELMA RIDGE

Sampling with Gard.

○ - Central Section on S. side

Approx. 400m NW of Wedge of large pond
(500m N of 'P' in PELMA
on trim map.)

019°

○ - 290m granite outcrops on open
area of hill side.

○ - 300m outcrop of dk. grey gtzite.

○ - 330m A 42 brown grey till

○ - float - sub round granite, greenstone, gtzite.

○ - 510m Granite o.c.

○ - 570m slope levels off

○ - 605m A 43 grey brown slightly sandy till
below 40cm loess - subang. greenstone
chips in till.

○ - 905m A 44 grey brown clayey till

○ - sub round granite is main float

○ - also some limonitic siliceous chips
and grey gtzite.

020°

○ - 1200m A 45 grey brown clayey till

○ - 1500m A 46 " " " "

○ - 1660-1690 small pond

○ - 1805m A 47 grey brown clayey till

-2100m - A 48 - mixed till - bees

-2350-2425 swampy area

-2470 A 49 grey brown clayey till

-2790m A 50 " " " "

at top of hill

170° - reset to 0m

-1000m at middle of broad mossy valley

200° - reset to 0m

-0m - thick organics - no sample

-90m - A 64 - brown-grey clayey till

-430m A 65 brown mixed soil/till

lots of ang musc. phyllite chips in soil

-700m no sample, thick organics

-835m A 66 red-brown clayey till

- lots of rusty musc. schist chips in till

-950m swampy creek flowing slightly E,

-1125m A 67 red-brown mixed till

-1440m A 68 brown grey slightly

sandy till under 30cm bees

-1735m dry gully - trends SW

-1775m ~~A 69~~ granite o.c.

-1800m A 69 brown clayey till

- granitoid and granite clasts in till

-1850-1950 small granite o.c.'s

-2100m A 70 brown mixed soil/till

- at top edge of open hillside

-2400m A 71 brown mixed soil/till

- granite pebbles in till

-2700m at base of steep slope - no sample

- thick bees over outwash from 2600-2700m

[NOTE: bearing heading straight for small pond]

DAY 5 - PELMAC RIDGE

Sampling up large creek dune S. of highest
) Peak on PELMAC RIDGE.

A 126 Strongly silicified, limonite
streaked foliated chloritic schist
fractures of qtz + limonite throughout
- vuggy in places

A 127 - fine sandy silt from large creek
showing S (or approx. 2050' elev.)

- flood mix of grey quartzite + quartz schist
alkalic musc. schist, greenstones
& metavolcanics, massive grey
limonite, minor and thinly laminated
dk grey phyllite.

- headed up stream on W. side of valley

) - 75m outcrop of very thinly laminated
fol^e 136/140th dk grey - bl. graphitic looking phyllite
with some carbonate cementing fractured surfaces

) - 95m A 128 15m wide outcrop of alkalic
laminated carbonate overlying graphitic phyllite
- fine disc. py and some silice^o occur

) - appears to be strongly altered w/ foliation
almost destroyed in sections - groundmass
is dk. grey and may contain v. fine py.

150-175m outcrops of dk grey
thinly laminated phyllite
with carbonate veins and masses
of ~~qtz~~ in ~~massive~~ calciferous + micaceous
foliation 156/38 NE

- 195m A129 f.g. sandy silt
just downstream from outcrop
of silt & arkosic microp.
lots of massive qtz in ~~beds~~ ~~masses~~

- 500m A130 f.g. sandy silt
- ang. arkosic and massive qtz still
occurring in float but ~ 15% of float
- most float is well rounded and
is and inclusions
- some porphyritic with star shaped
phenos.

- 800m A131 f.g. sandy silt
- float similar to A130

- 1180m at creek junction
- headed up NE fork
- 1230m A132 f.g. sandy silt
- float approx 50% qtzite + qtzite schists
40% mt-marble interbedded
5% white qtz
(approx 15% of float is moderately arkosic)

Back at creek junction headed up
NW fork

- 55m A133 f.g. sandy silt
approx 50% float is weakly-
moderately silicified arkosic marble
40% float is dk grey dolomitic phyllite
A134 - angular float of moderately silicified
arkosic marble

- Outcrops on NE bank - 10m high
thinly bedded phyllite inter bedded
with arkosic marble.

fol° 073/36 N.

- 350-425m waterfall section of
creek - ark. through e. of arch and
arkosic/pale green phyllite w. some qtz.

- 485m A135 large ang boulder
of qtz with 30% limonitic vugs
o.c. on E side of creek is dk green
metavx.

- 675m A 136 fine sandy silt

lots of arkosic float + qtz in creek
(NOTE: creek flattens out after 550m)
small o.c.

o.c. in crevices of weakly limonitic
grey quartz

(might be correct)

Headed West to ridge - great to

- 800m on ridge.

- [205°] apt to 0m

- 0m A 137 brown slightly sandy
mixed loess/till

- 305m A 138 grey brown clayey till

- 605m A 139 grey brown clayey till

- some ang. quartz chips in till

- 830m small outcrop very phyllite

Folⁿ 138/40 NE

- 900m + 950m outwash - no sample

- 990m A140 grey sandy till - could be outwash
but has some bit of clay in it.

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DAY 6 - PELMAC RIDGE. (NORTH SUE)

At MacMillan R. - S. end of Meander that
was recently cut through by R.

[020°] - 150m crossed med. creek.

- 340m A 142 grey brown slightly sandy
Hill

- 490m small o.c. of dk. grey calcareous
mudstone phyllite. Flat lying.

- 650m A 143 good grey clayey basal till

- 950m A 144 " " " "

- 1040m sm. o.c. med. green foliated

A-145 metavolc. - weakly limonitic
approx 2% v. fine disse. silt. (grey?)
(Sphalerite appears
Submetre size in places)

- weakly limonitic basalt
Folⁿ 136/40 SW.

- 1250m A 146 grey clayey basal till

- 1360m small o.c. quartz schist.

- 1530m - A 147 grey brown mixed silt/till

- lots of angular schist chips in soil

[180°] 1850m A 148 grey brown slightly sandy
Hill (partly outwash but high clay content)

- 1930m outcrop of bedded (foliated) grey
weakly limonitic silt - Folⁿ 080/28 N at Ridge
of NE-SW structural valley

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A 149 - section of quartzite with
stronger laminar fracturing and
argillaceous quartzite of quartz,
- very dense fracturing w. limonite along fractures
and silty gr. diss. fracture silty

- 2000m A 150 fine sandy silt
from sm. creek flowing W.

~~most~~ silt mainly sm. pale grey phyllite chips
- 2060m 15m high cliff of well bedded
quartzite - bedding / folⁿ @ 134/25 SW
- limonite fracturing in places.

- 2150m A 151 good grey basal till
started contouring towards large creek to W.

- 2450m no sample arg. on a.c. quartzite?

- 2900m started dropping into creek

- 3250m A 152 fine sandy silt from
large creek flowing N.

float approx. 45% quartzite

45% ~~contaminated~~ - foliated but not very fissile

(so vx have up to 3% fragments py.)

- minor amts marble + conglomerate

- 1 pce. of rounded chert pebble congl. is quite rusty.

6m reset to 0m - headed downstream

A 153 - rounded float of strongly
reddish siliceous rk w. laminar fractures
and 5mm veinlets of brown carbonate (siliceous?)

A 154 - sub-angular float of strongly siliceous
w. strong brownish red oxidation
- vuggy in places - quartz veinlets up to 5mm

- 127m creek drops into small canyon
through very, pthly eroded flat
lying quartzite unit (10m thickness exposed)
A 155 vuggy with quartz stal lined vugs

- 280m A 156 - f-med gr. good quality

silt

- 400m A 157 sub-angular float of
strongly altered rock - pale grey

carbonate rich rock w. calcite and quartz
filled fractures - carbonate fractures

are ankeritic on weathered surface.

< 1% vugs diss grey silty (Asp?)

= 635m - side. rusty
o.c. quartz vein approx

1m wide cuts through med grey
phyllite. Alt. approx 030/75 E

A158 - Qtz contains fig. pyrite w
possible sphal? in wuggy schrage
zones

A159 - soil below o.c.

= 640m o.c. now very fissile graphitic phyllite

- 660m A160 f.g. sandy silt from
main creek. float similar to upstream

- 680m A161 silt from mb. on W side

- site mainly graphitic phyllite chips

float 90% graphitic phyllite

25% boulders of mafic intrus.

5% massive Qtz

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DAY 7 - PELMAC RIDGE (NORTH SIDE)

- At shore of MacMillan R. just W of end of

160°

- 175m A162 grey-brown clayey till

- 695m A163 grey muddy till

- 970m A164 good grey basal till

- 1100m on top of sand A till

- 1200m in E. cut gully

- 1245m large angular talus blocks of
green phyllite.

1300 - 1500m no sample - permafrost then outwash

1500m started heading SE.

1600m A165 brown grey slightly sandy till

- 1700m - sub cap - quartzite (buff white colour)
cherty.

- 1850 - 2400m blocky talus at base of

dip to N. approx 40m thick section
of foliated quartzite (at 2100m) fol. at 020/25 SE

at 2100m A166 - ang. talus float of

intensely fractured & oxidized quartzite.

- brown oxidation (may be sphalerite) replacement
sulfides may be reacting & replacing dolomite

cement in quartzite. > 70% rh in places.

where fresh some dk grey sulfides are visible.

A 167 blocky tabular float similar to
 A 166 only much less fracturing - only
 3-5% of rk. oxidized fractures - 1-2mm
 pyrite cubes (<1%) - traces of grey silicates
 quartz has been altered to a cherty
 white, sugary textured silica.

SE

2490m at anomalous Au creek.

A 168 f-medgr. sandy silt

creek flows through bush brush/moss

- float 40% dk grey fissile phyllite/schist
 30% quartz, 20% metab. 10% qtz.

reset to 0m - headed down stream on
 E side of creek.

- 0m A 169 grey clayey HM

- 300m estwash - crossed to W side of creek

- 340m A 170 grey brown clayey HM -
 lots of qtz chips in HM

- 390-410m quartz o.c. 020/23 SE

- 483m A 170 f.gr. sandy silt

float 50% metab. + int-mafic vol. intr.
 30% quartz, 10% dk phyll, 10% massive qtz
 - some rusty

North Pacific Supply Corp. 46 Level 4

heading NW through saddle.

reset to 0m

- 75m lg angular boulder of graphitic schist
 under lg hyp-up.

- 90-110m o.c. quartz - dipping approx. 15° ESE

- 210m A 172 brown-grey clayey fill

angular chips graphitic schist.

- 300m no HM - dropped into gulch
 between two hills - large o.c. on N.
 side 50' high quartz bluffs

A 173 - silicified, rusty in places in vuggy
 areas sometimes limonitic (may be weathered
 out carbonates) fol^e 020/30 E.

North Pacific Supply Corp. 46 Level 4

- 600m A 174 brown-grey mixed soil/fill
 long quartz chips.

- ~~300m~~ /

- 1800m A 175 f.gr. sandy silt
 from sm creek flowing N.

float dk grey and green phyllite.

quartz + rusty qtz.

PACKERS BACK (DAY 1)

At Sample 99-W 46

- 135° for 300m reset to 0m

- 0m - D-59 - good grey clayey
basal till - org. phyllite ~~schist~~ clasts
and mixed org. - rounded float

- 0-230m several angular boulders of
pale grey-brown, weakly limonitic gneiss

- 300m D 60 - good basal till

- 600m D 61 " " "

- musc. qtz schist float

- 615m sub-ang. boulder of weakly hematitic
chert pebble cong.

- 790-875m lots of org. float of
qtzite-musc. schist

- 900m D 62 - good basal till

- 1025m D 63 - ang. boulder (sub-crag)
of ^{99%} qtz musc. schist w. secondary
shallow fill³ of chlorite ^(high) - sericitic alt^o

wiggly rocky areas

- 1035m start of steeper slope into next valley.

- 1105m D 64 - gray brown slightly sandy Hill
- 1170m sub-crop of dk green chlorite schist w. contorted folⁿ sections of lt. brown qtz. fld. w/ leached ~~py. cubes~~ (19 S.)
- 1200m D 65 sub-crop similar to D 63 only stronger bleaching, sericite altⁿ, and secondary chlorite folⁿ (appears to be altⁿ meta sst/shale?) on (monitic fractures)
- 1300m D 66 brown mixed soil hill
 - sub-crop ~~of~~ D 65 - some w. qtz. vesicles (interfolⁿ qtz).
- 1390m D 67 angular 1m boulder of strongly silic^d rock - vuggy low sulfide qtz. (more qtz. in float towards the valley)
- 1450-1525m steep slope - sub-crop same as D 65.
- 1500m D 68 brown sandy 90% soil/hill^{10%} within sub-crop zone.
- 1715m D 69 gray clayey basal Hill. (15m past end of steep, sub-crop slope.)

North Pacific Supply Corp. 46 Level 4

- 2000m D 70 grey clayey hill
- From small drain in feature in main valley
- 2025m at main creek - slowly flowing
- NE - no silt.

PACUERS BACK (DAY 2)

At 99-W-2S (just SE of creek valley)

135°

- 995m D-74 good gray basal hill
- 1170m D-75 grey clayey hill
 - Some ang. chl-schist chips in hill
- 1360m D-76 grey clayey hill
- -1590m D-77 gray brown mixed soil-hill - lots of chlor. schist chips
- 1600m at top of steep slope
- -1600-1700m sub-crop + o.c. of dk green chlorite schist interbedded with qtz. - rusty in places but no visible sulfides - folⁿ @ 1600m 360/20 E
- 1800m D 78 brown sandy base/hill
 - looks like mainly base to 70cm depth. then angular fl. w. some clay at 80-90cm

2000m D 79 fine grey brown silty
mixed till/soil

2200m - O20f along prominent hill
- 225m - 275m sub-camp, rusty silicified

D-83 granite w/ interfoliation and \times foliation
qtz. veinlets - vuggy in places

- 280m start of SO⁺ m o.c. of

above - D 80 brown silty soil
from near o.c.

fol^o ~~near~~ O26/48 E

- back on line @ 2200m

D 81 grey clayey till - lots of
sub-angular chips of rusty granite in till

- 2270m at break in slope of main valley

- 2400m D 82 grey clayey till
from drumlin feature // to main valley

North Pacific Supply Corp. 46 Level-4

PACKERS BACK - SAMPLING WITH GORD

At Sample 99-W 51 (~~99-W 51~~, ~~99-W 51~~)

O15

0m - E1 sub-camp that from W52 soil pit

- grey granite? w/ rusty fractures and
2-3mm qtz veinlets

[other floor in pit is ang. rusty chl. schist]

E2 - 10m down slope from E1.

ang. boulder (50cm) of similar rock to
E-1 only/much stronger qtz veining + silic^o

w/ some open, rusty qtz lined veinlets
- deoxidized sulfides in qtz

190m sub-round to sub-ang. boulder of
porphyritic ~~granite~~ ^{white} feldspar phenos 15mm ^{up to} 40mm ^{long}

200m E3 good grey basal till - some
ang. dk grey phyll. chips

270m E4 sub-camp (o.c. fill^o approx 360/100)

rusty granite-muscovite schist - limonitic
fracture + rusty qtz layers in some
places vuggy w/ qtz x'tals.

380m sub-ang boulders granite and sub-rounded
granite ~~schist~~.

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- 400m - E 5 grey clay basal till

Some ang gtzite chips

- 480m ang gtzite flt.

- 590m E 6 ang. Plt. of dk grey

isoclinally folded gtzite w. rusty

gtzite veins up to 1cm wide

- 605m E 7 brown grey clayey till

(may have some loess mixed in) 5m down slope

- 640m ang gtzite flt.

- 650m crossed strong line (W-sol line)

- 765m subcrop gtzite w. chlorite flt.

- 800-850m " " " "

- 885m E 8 dk grey clay till

(possible part soil - chlorite gtzite)

- 1050m small peak covered till to N

- 1100m E 9 grey clayey basal till

Back @ 1050m - headed NW along

small hill.

- 100-200+ m - gtzite talus subcrop

- v.c. gtzite veins + rest in place

- 1170 crossed claim boundary strong line

- 1280 - subcrop gtzite (small hill to S)

- 1315m E 10 - brown grey slightly sandy till

reset to 0m [NW]

- 20-70m subcrop talus - gtzite

- 130m small dry gully N-S

- 300m E 11 - grey clayey till

- 600m flat marshy valley bottom

- perme best in clay - no sample

[225°] reset to 0m

- 200m E 12 grey clayey till

- 340m crossed N-S gully

- 410m E 13 grey brown slightly

sandy till

- 610m E 14 grey clay till

- 770-950m N-S marshy gully

- no sample

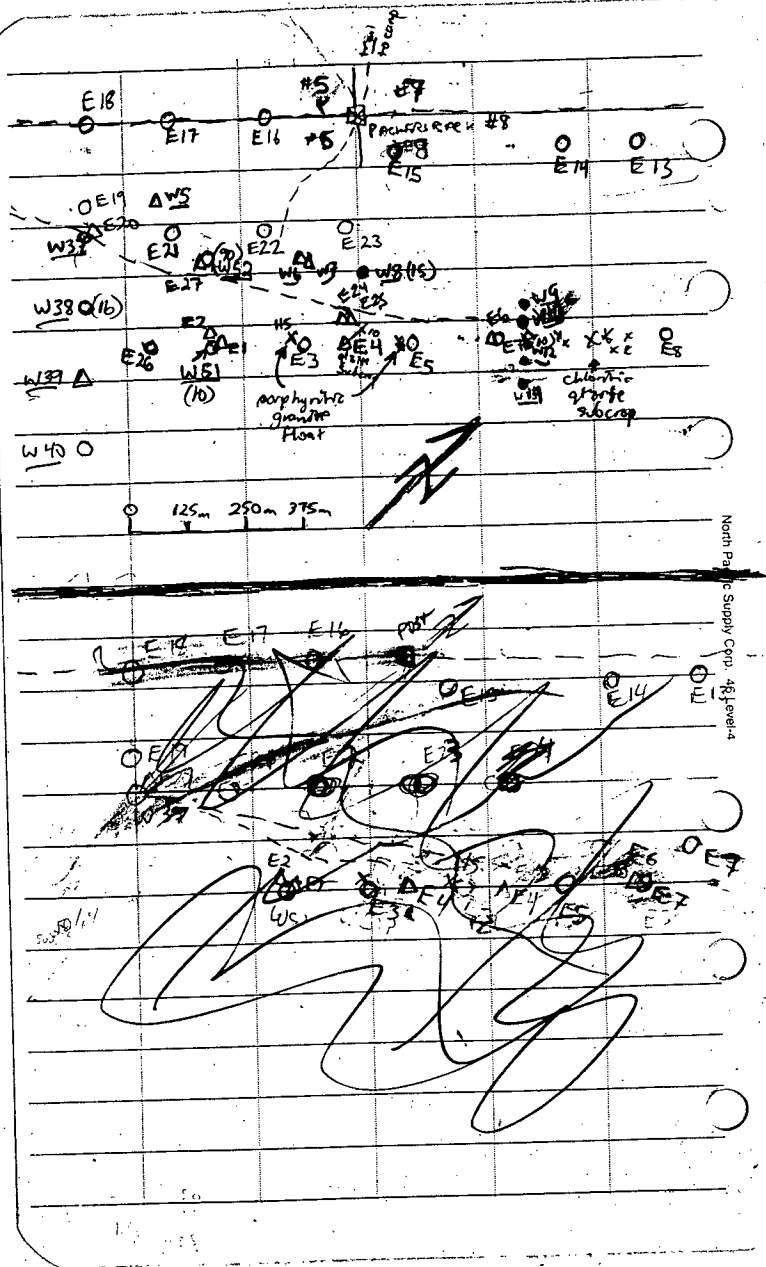
- 985m E 15 - grey brown slightly

sandy till

[315°] reset to 0m

90m hit claim line - ~~to SW~~

80m NE of NO. 1 PACE 7/8.



PARKERS BACK

- At Claim Posts.
- NO. 1 PARKERS BACK 7/18
- **125** following claim line
 - 60-90m washed gully NS
 - 200m E 16 grey clay hill
 - 300-350m NS gully
 - 400m E 17 grey clay hill - some ang. granite chips in hill.
 - 500m E 18 grey hill
 - **135** react to 0m
 - 200m E 19 grey clayey hill
 - ang. granite chips in hill
 - 280m at cross line right at sample pit 99-W-37.
 - react to 0m **1045**
 - 0m **E 20** ang. float from soil pit
 - rusty quartzite w. muscovite-type schistosity
 - laminar fractures and thin qtz veins
 - w. fol.
 - 205m E 21 grey slightly sandy hill
 - some ang. de grey quartzite chips

- 400m E 22 grey clayey till

= ang. dk grey granite chips in till

- 435m - missed string line to camp
- 580m E 23 grey clayey till

- ang. dk grey chloritic granite
and some ang. rusty qtz & clasts

- 600m [135°] reset to 0m

- 190m crossed 99' cross line

- 208m E 24 ang. float, rusty
silicified qtz - muscov schist.

E 25 ang float, rusty, silicified dk grey

- 264 - hot sample line 15m NE of E 24

At Sample E1+E2 (NW-SI)

[225°]

- 150m E 26 - good grey clay till

= ang to sub-ang chips granite and
rusty qtz.

- Back at 99-W-SI [1045] 280m W-SI

E 27 ang. f. it weakly silicified

qtzite w. limonite weathering on top surface
and limonite fractures extending out

LITTLE SALMON RANGE

- SAMPLING WITH GORD

- At large tributary flowing W
into BEARFEED CREEK approx.

6 km N of Hwy and 3 km

upstream from BEARFEED CR.

- E 28 - f. gr. sandy silt.

Floor 60% granite, 25% psammite
Schist

10% qtzite + massive qtz.

minor amt. arkosite that is

moderately silicified E 29. Traces of massive

qtz w. arkosite matrix? E 30.

- Approx containing NW up E side
of Bearfeed Cr Valley

- 70m outcrop psammite schist - weakly
resid. - good fol^c @ 145/70 SW

- 145m sub-ang marble and float like
E 30.

- 1620m E 31 f. gr. sandy silt from

small creek flowing S.

Floor: 65% psammite schist, 20% granite, 10% arkosite
traces of massive qtz w. ark. matrix

- 2000m crossed overgrown rd. running N-S
#2130m outcrop at SE end of small hill - Qtz vein O15/80W.

E32 vuggy silvage (may be existing before intrusive? or quartz) 1-2% f.g. disc py (Arseno?)

E33 massive qtz w. minor epidote? vuggy fractures + 1% f.g. disc py.

E34 - brown till from 50cm over o.c. (possibly soil/till mix).

360° react to 0m

- 60m - 80m crossed overgrown rd.
- 130m outcrop of green chlorite rock (andesite?)

- 210m E35 grey brown clayey till

Back to E34

190° react to 0m

- 140-160m crossed rd. (heads SSE)
- 210m E36 grey brown slightly sandy t.

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320-335m crossed rd (heads SSE)

405m E37 became grey slightly sandy till

545m started following rd

610m E38 grey clayey till from rd
820m E39 " " "

approx. 30m W of Rd.

1070m E40 grey clayey till from rd

1400m outwash - getting into flat marshy area

1600m rd starts heading SE

Approx 1km downstream from E26.

Outcrop on SE bank of creek strongly oxidized, siliceous, alt^d and/or looking rock - 40+cm wide vuggy qtz vein w. med gr. disc py (also smaller veins) E41

E42 - soil from against O.C.

Vein altitude 120/80 S. Vuggy + siliceous visible over 2m width

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Ray Charles - Burn to Lose

BRADEN TARGET AREA

SAMPLING WITH GORD

① - ~~At~~ 200m pond approx 3km
NW of largest Von Wilczek Lake
on fire break rd. (NW side of lake Swend)

② - heading NW along rd.

- 150m junction - new FB rd heads NW old
head N.

③ following old FB rd to N.

- 200m A 176 grey brown till
road surface has lots of rounded to

sub-angular qtz flt. some vuggy

- also sub-angular flt of chert pebble congl
with silica matrix and leached diss sulfides
1-2%

- 250-300 rd to W. 300-500 rd N.

- 390m blaze and flag: 0-2yr old not sure direction

④ - 400m A 177 ang. flt rusty, bleached,

silic^d rock w/ 3m vuggy sp. qtz veinlet

500-800 rd heads NW

⑤ - 600m A 178 sub-ang rusty qtz flt

top of block till. vuggy rusted sections, Ag. grey silf
along small fracture - diss pyrite (1%)

⑥ - 725m A 179 dk grey till? lots

of mica - very graphitic from 0-130cm

- almost looks like ~~decomposed~~ graphitic bedrock.
dupt.

- 800-1800 rd heads W.

1300-1850 swampy area near

S. Plaining creek @ 1500

Back at A 178 on top of hill

[360°]

1430m A 180 grey clayey Hill.

1500m [030°] road to 0m

300m A 181 grey brown clayey Hill

- graphitic schist chips in Hill

- 600m outwash

- 650m A 182 grey brown clayey Hill

- 800m started going slightly downhill

- 930m A 183 grey brown slightly
sandy Hill.

- 1160m A 184 grey muddy Hill

- 1400-1500 permafrost. Plot over

- 1500-1600 swampy creek (flows between 1510-1550m)
no silt - beaverdam creek

- 1700m permafrost.

- 1900m A 185 grey slightly sandy Hill

- 2050m sub-cop marble (light tan color)

in places has quartz + limonite fractures A 186

A 187 brown soil from against sub-cop

NOTE: AT EDGE OF NNW-SSE firebreak rd.

- 2200m A 188 brown sandy Hill

(possible outwash but some clay)

- 2250-2290 - several small o.e. of

med to dk green andesite mtr

- 2300m at top Hill. (E side)

- 2460m A 189 grey brown slightly

sandy Hill under 1m. loess

- Back at A 186/187 on rd.

- walked out rd to main highway

BRADEN AREA

At Sample A-189

150°

-250m - crossed old fire break rd heading NE

-300m A 190 brown grey sandy till

-430m hit fire break rd coming in from pond (approx 300m SE of A186+187)

-started following to SE

-500m boulders subang granodiorite

-570m atwash

-590m A 191 brown grey sandy till

(could be atwash but some clay content)

-600-800m rd heads E

-800-900m swampy area - rd heads S

-900m end of rd in swampy area

continuing @ 150°

-920m A 192 brown grey slightly sandy till

-930-1050 recent broad area

-1080m med-weak flowing E. - mossy
10 to 5 ft

135° -1200m perma forest

-1260m A 193 grey clayey till

-1500m A 194 " " "

-1800m A 195 brown grey sandy till

-2085m atwash

A-196 any. flt under top-up of
grey-musc gravels (orthogonists?) in
laminar fractures

-2130m A 197 grey clayey till

-2180-2380 marshy area

-2410m A 198 grey clayey till

-2700m A 199 brown grey sandy till

-4000m hit main hung.

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FRENCHMAN LAKE AREA

Sampling with Gord.

- 100m W. of mouth of creek
flowing into N end of Frenchman L.

270°

- 250m gully between eskers (N-S)

- 500m " " "

- 400-700 atwash

- 810-900 steep slope with bars

A 200? of outcrop of brown graywacke
w. carb. veins & laminar fractures

860m A 201 brown silt from

near o.c. graywacke.

- 900m on flat slope at top of

o.c. bluffs

- 915m A 202 brown sandy till

- 1130m o.c. graywacke

- 1400m A 203 brown sandy till

- 1900m A 204 grey brown slightly

sandy till

- 2300m A 205 grey brown clayey till

- 2490 - at ~~the~~ NW-SE cut line

↳ started following cut line.

- 2700m A 206 grey slightly sandy till from 130m.

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- 2850m - continued up to Arch
in creek

- A 207 - Fgr sandy silt from E Arch
of creek.

- Float 65% flaggy blk lsst.
35% med to dk grey greywacke.

- 10m upstream - a.c. of flaggy blk lsst.
bedding 154/75-80 NE

A 208 - Fgr sandy silt from W Arch
(smaller than A 207 creek) float same as E

At formation of creek making
downstream, rest is 2m

- 85m at cut line

- 107m Blue Flag" EXC 99010

- 230m A 209 sub-ang float of
pinkish weathered pale grey marble
with limonitic fractures.

(Some ^{med green} andesite full float starting to
show up in creek

- 360m A 210 rusty sub-ang float
poorly sorted greywacke / congl. - calcite + silica?
cement.

lots of gte + flaggy blk. gneiss in
rock gives appearance similar to a dike.

- 450m completely oxidized float w/
flaggy calcite lined area.

- 515m A 211 Fgr sandy silt
float 80% blk. lsst.
20% greywacke.

- continuing E.

Prospecting Proposal under the YMIP for Gordon Richards and Dave Bennett

Five areas proposed are:

Macmillan
Frenchman
Braden
Little Salmon Lake
Scroggie

These five areas are described below followed by a general description of issues relating to all areas.

MACMILLAN

a) Project Location:

- i) MacMillan (Summit, Middle, Pelmac)
- ii) Area lies between Klondike Highway and Tintina Trench north of Pelly River on NTS map sheets 105L/13, 105M/04, 115I/16 and 115P/01 within Mayo and Whitehorse Mining Divisions.
- iii) Refer to Figures 1, 2, 3, 4, 5 and 5A. Claim maps have been updated. Only the PACKERSBACK claim block owned by G Richards occurs in the area.
- iv) Not applicable.

b) Access to the area will be made by helicopter to the PACKERSBACK claims area and by All Terrain Vehicle along the Summit Lake Trail and Diamin Lake Trail for the establishment of camps in each of these areas and from which traverses will be made.

c) Prospecting Targets:

- i) Gold (silver) is the main target with Zn, Pb, Cu, a secondary target.
- ii) Epithermal gold mineralization within rocks mapped as Carboniferous to Permian metamorphics and related to buried or existing intrusions.
Sedimentary hosted Zn-Pb-Ag like Clear Lake 20-km southeast
Volcanogenic massive sulphide mineralization like Wolverine and Kudz Ze Kayah.

d) Reason for proposal is to follow up unexplained anomalous RGS data in an area underlain by rocks suitable for hosting epithermal/mesothermal gold mineralization and base metal with precious metal massive sulphide mineralization. Although the geochemical response is not the strongest in the general area, it is considered important for reasons discussed below. Work in a portion of the proposed area in 1999 under a YMIP grant showed that significant anomalous till geochemical patterns were possible in drainages with low order RGS response. Available geological, geochemical, geophysical and minfile occurrences have been researched with pertinent info summarized below:

Geological: Figure 2

- Immediately south of Tintina Trench and fault system
- Carboniferous to Permian quartzite, schists, phyllite and limestone is main rock type
- Above rocks mapped only on 105L (Colpron OF 1998-3). Other references are OF1101 115I; map 1143A 115P; map1997-1 105M
- CPsn (above) intruded by Tatlain Batholith along south margin of area and a number of stocks and plugs of quartz monz to diorite composition throughout rest of area.
- Upper Cretaceous (?) Carmacks Group andesite, basalt flows and tuffs with some granite boulder cgl overlies and in apparent fault contact (downdrop) with CPsn.
- Late Tertiary quartz feldspar porphyry plugs and a granite to syenite porphyry stock are present. Detailed mapping on 105L indicates folding overturned to north and mappable stratigraphy including felsic to intermediate metavolc rocks – suitable for VMS mineralization. This geology projects along strike onto other map sheets.

- Glacial history provided by map 1999-2 Duk-Rodkin and GSC Yukon Digital Geology. Refer to Figure 4. Youngest glaciation is the Late Pleistocene McConnell ca.22ka ending about 10ka. It is easiest to identify in the field because of its young age. In the area of interest it extended along lower slopes of Tintina trench and MacMillan and Pelly Rivers as indicated on Figure 4. The next oldest glacial period was the Middle Pleistocene Reid ca.200ka which ended about 50ka. It occurred as valley glaciation in the area of interest flowing northwest along Tintina Trench and westerly through east-west valleys to just west of the Klondike Valley. Several stages of pre-Reid glaciation occurred from Pliocene to early Pleistocene time and overrode the hills in the proposed area. Evidence for this glaciation is in general difficult to find. In our area, evidence is occurrence of tills somewhat mixed and variably leached on the upland surfaces above limits of later glacial periods. There is also an apparent glacially smeared geochemical pattern developed in the tills on this upland surface based on last year's results. Inferred direction is to the west.

Geochemical

- 70th and 90th percentile values plotted on Figure 3 for many elements. Drainage patterns are emphasized.
- Northwest elongate trend of anomalous As-Sb measuring 15 km by 50 km with numerous Au anomalous values, many Zn, Cu, Pb anomalies, an area of highly anomalous Hg, and several areas of anomalous Sn, W, and Ag.
- Large areas with no RGS data are coloured yellow. Many of these are significant exploration areas as they abut areas of anomalous geochem.
- Seven drainages have repeated anomalous gold values and are coloured in red to emphasize this occurrence. Six of these drainages are also highly anomalous for As and Sb and many are also anomalous for several other elements.
- Three areas with clusters of drainages anomalous for several elements have been selected for detailed prospecting. From north to south they are referred to as Summit, Middle and Pelmac and are shown on figure 2.

Geophysical

- Figure 5 is a printout of aeromagnetic data on the Yukon Digital Geology CD
- There is a general flat background with few mag high features.
- Comollo Pluton mapped by Colpron has a high magnetic response although the other portion of this pluton, three km NE has no mag high.
- Carmacks Group has a high mag response over some portions of its mapped extent
- The Tatlain Batholith has a low mag response.
- The rhyolite porphyry stock in the SE corner of 115P has weak mag highs associated with its north and south contacts.

Minfile Occurrences (Fig 2 for location)

- 115P038 Firebird, Firelord, Firestone, Firedevil. Staked 1981, worked on to 1988 with hand trenching. In qtz musc schist at contact with Cret granite. Staked for gold potential.
- 115P039 Phoenix Staked 1980 in conjunction with nearby placer prospecting.
- 115P022 Gillis. Staked 1950 and 6.4 km SW in 1981 as Raven, Pearl. Gillis on ultramafic. Raven in area extensive overburden.
- Numerous Zn-Pb-Ba occurrences and deposits (Clear Lake) to SE, and E of area.

e) Proposed Work. Areas shown on Figure 2.

Summit Area.

- Till sampling throughout area at 300-m interval on lines roughly perpendicular to ice direction spaced two km apart. Samples will be collected from pits dug by shovel in order to see soil profile and get below oxidation, loess and surficial disturbance.
- Silt samples will also be collected wherever possible.
- Two areas of anomalous values for Au-As-Sb from tills collected last year will be followed up with sample lines spaced one km apart over two or three lines up-ice. Refer to Fig 5A.
- All outcrops will be mapped and sampled if mineralized.
- Control will be by topo map, hip chain or pacing and compass.
- Helicopter camp will be located on the Packersback claim for work around the claims.
- ATV access along the Summit Lake trail will be used to locate a camp for access to the southern half of this area.

Middle Area

- Till sampling throughout area similar to above with the use of soil samples on steeper slopes where tills may be lacking. Silts where possible
- Soils will be collected at 75 m interval where required.
- All outcrops mapped
- Particular attention will be paid to the drainages with repeated 90th percentile gold values, which also contain strong As, Sb, and base metal anomalies associated with metavolcanic clastic rocks within quartzite. Of interest also is the NW trending apparent fault contact between Carmacks Group andesites and CPsn as anomalous geochem appears strung out along this contact. Potential for massive sulphide mineralization will also be examined.
- Control by topo map hip-chain and compass.
- Access by ATV along trail to south side of area for establishing camp.

Pelmac Area

- Till sampling as above and soil sampling on steeper slopes where warranted. Silts where possible.
- Particular attention to massive sulphide potential in two drainages along the north side of area, to epithermal gold potential in large area anomalous for Au-As-Sb-Hg. Of note is low mag response of Tatlain Batholith with strong Sn anomalies in creeks draining the north contact zone. (18, 13, and 7 Sn from west to east and 4 W from middle sample – See Fig3). Small Tertiary plug in 3532 drainage, westerly of above Sn anomalies, is described as 60 to 70 % phenocrysts. Dolomitic quartzite in drainage of sample 3536 at east end Sn anomalies is associated with strong Au, Sb, As and is an excellent target.
- Control will be by topo map and compass on steeper slopes and by hip chain and compass on flatter terrain.
- Access by helicopter positioned fly camp.

FRENCHMAN

- a) Project Location
 - i) Frenchman Area
 - ii) Area lies west of the north end of Frenchman Lake on NTS map sheets 105L/04, 05 and 115I/01 within Whitehorse Mining Division.
 - iii) Figures 1, 4, 6, 7, &8.
- b) Access to the area will be by vehicle along the Tatchun Lake Road to Kelly Ck Bridge where a field camp will be established as a base for traverses.
- c) Prospecting Targets:
 - i) Gold and base metals
 - ii) Epithermal gold and massive sulphide mineralization.
- d) Reason for work is to follow up unexplained anomalous RGS data in an area of widely spaced data with one notable anomaly, no.3287 on Figure 8, returning high base metals with moderate As, Sb, Au anomalies. Nearby samples are moderately anomalous. Additional information includes the following:
 - Available geology on OF 1101 by Tempelman-Kluit indicates the area to be underlain by mappable units of Lower Jurassic resistant arkose, Lower to Mid Jurassic khaki green dacite tuff and Upper Triassic to Jurassic limestone. See Figure 6. A northwest open synform occurs in the area and northwest faults including the Tatchun Fault cut the rocks described.
 - Late Pleistocene McConnell age glaciation directed to the northwest dominates glacial history of the area. Figure 4.
 - Aeromag response in the area of interest is featureless although strong mag highs lie immediately north. Figure 7.
 - Minfile occurrences do not occur in the area. Nearest ones are coal occurrences in the Laberge Group some 15 or 20-km SW.
- e) Proposed work. Refer to Figure 8.
 - Prospect float and outcrop along drainage sampled by RGS 3287.
 - Collect till samples along northeast lines perpendicular to ice flow at 300-m intervals along lines spaced two km apart.
 - Collect silt samples wherever possible.
 - Record all outcrops.
 - Prospect for altered float along all traverse lines.
 - Control will be by hip chain and compass with aid of topo maps.

BRADEN

- a) Project Area
 - i) Braden
 - ii) Area lies immediately north of Von Wilczek Lakes between Minto and Pelly Crossing within the Whitehorse mining Division on NTS map sheets 115I/10 & 15
 - iii) Figures 1, 4, 9,10 and 11.
- b) Access to the area will be along the Klondike Highway for traverses into the area around RGS sample no 1119. Further access along the secondary road heading north from Minto will provide access to RGS sample no. 1104. The anomalies south of Pelly River near Braden Canyon will be accessed by boat only if a boat is available and time permits.
- c) Prospecting Targets
 - i) Gold and Zn-Cu-Pb-Ag
 - ii) Epithermal & mesothermal gold and massive sulphide mineralization.
- d) Reason for prospecting is to follow up RGS data that is anomalous for As,Sb & Au and base metals. Sample 1119 has moderate As & Sb with duplicate 90th percentile Au values in an area of subdued topography and glacial debris that could be masking a gold deposit. Sample 1104 has a strong Sb result with moderate As & Au adjacent to a large area of subdued topography and no RGS data. Additional information includes the following:
 - Geological information in OF 1101 by Templeton-Kluitt indicates the area to be underlain by Carboniferous – Permian metamorphics including much limestone. See Figure 9. Skarn mineralization is possible. RGS data point information indicates Carmacks Group volcanics occur as float at sample sites 1104 and 1105. Jurassic – Cretaceous intrusions lie just east and west of the area shown on Figure 11. Outcrop is sparse in the area making till and float prospecting a good method of prospecting.
 - Glacial history studies indicate the area lies beyond the reaches of Late Pleistocene McConnell Glaciation. The area was last glaciated by the Reid Glaciation which ended 50ka and occurred as low lying valley glaciation directed to the WSW in this area, leaving some upland surfaces above about 3000 ft elevation untouched but still displaying glacial features of Pliocene to Early Pleistocene pre-Reid glaciation. The old age to the glaciation is believed to have attenuated, through leaching and mixing of materials, any strong geochem response that may have existed. See Figure 4.
 - Aeromag data shown on Figure 10 shows some weak to moderate mag highs that have been plotted on Figure 11. One weak mag high is an east-west 5-km long feature that coincides with the high gold geochem values at sample 1119 and may be indicative of pyrrhotitic or magnetic mineralization associated with an epithermal gold system.
 - Minfile occurrences include 115I035, which is a mariposite occurrence, and 115I019 which is a copper – silver occurrence in hornblende gneiss. See Figure 11. Four VMS claims shown on Fig 11 were staked in 1998 and have lapsed with no work recorded.
- e) Proposed Work. Refer to Figure 11.
 - Prospect 1119 drainage for mineralized outcrop and float.
 - Collect till samples at 300-m intervals along lines spaced 2 km apart in vicinity of 1119 and 1104.
 - Collect silt samples wherever possible.
 - Record all outcrops.
 - Control will be by hip chain and compass with aid of topo maps.

LITTLE SALMON LAKE

- a) Project Location
- i) Little Salmon Lake
 - ii) Area lies on Snowcap Mountain south of the west end of Little Salmon Lake and on low-lying hills north of the west end of Little Salmon Lake in Whitehorse Mining Division on NTS map sheets 105L/03,04,05 &06.
 - iii) Figures 1, 4, 13, 14, 15 &16.
- b) Access is by vehicle along the Carmacks – Faro road to the west end of Little Salmon Lake and then by boat to the shoreline north of Snowcap Mt and by ATV along trails north of the lake.
- c) Prospecting Targets
- i) Gold and possibly massive sulphide.
 - ii) Epithermal gold. On Snowcap Mt mineralization might be related to the quartz monzonite plug. North of the lake skarn mineralization in the limestone unit is possible and further east mineralization related to the Cret syenite/monz is possible.
- d) Reason for prospecting is to follow up anomalous gold geochem reported on RGS data supported by anomalous As & Sb with minor base metal anomalies as shown on Figures 15 & 16. Following support is provided:
- On Snowcap Mt, Figure 15, a small plug mapped by government geologists, Figure 13, has anomalous Au-Sb-As geochemistry in RGS silts. Of particular interest are the gentle upland slopes above 4500-ft elevation where outcrop may be sparse. Any mineralization on the steep lower slopes would probably already be found.
 - North of the lake, Figure 16, there are two targets: one sampled by 3166 and 3167 where CPSn is apparently intruded by a Cretaceous syenite or monzonite. Here anomalous geochem samples appear to be sampling ground occurring in the intruded roof rocks of the syenite; further east anomalous geochem results occur in an area of limestone and CPSn providing a skarn target for gold mineralization. Both areas have repeated 90th percentile gold in one and two drainages respectively.
 - Westerly directed McConnell Glaciation has occurred through the area with the exception of the ridge underlain by limestone and Snowcap Mt both of which underwent Reid Glaciation. Fig 4.
 - Aeromag data shown on Figure 14 is featureless in the areas of interest. Stock on Snowcap Mt has a low mag response indicative of reduced granites.
 - Two Minfile occurrences occur in general area as shown on Figure 13: 012 lies along the north shore of Little Salmon Lake in CPSn near a small granodiorite stock. Minor Cu mineralization reported by GSC but never located; 060 lies south of the west end Little Salmon Lake. Two broad areas of quartz sericite altered rhyolite contain anomalous gold up to 73 ppb. Recent descriptions of massive sulphide style mineralization are found in YEGS 1998 & 1999 and project NW to the north side of the general map of Figure 16.
- e) Proposed Work. Refer to Figures 15 &16.
- Prospect the upland surface around Snowcap Mt and the drainages sampled by 3155 and 3156 and the intervening creek.
 - Collect tills at 300m intervals along lines perpendicular to ice and spaced two km apart.
 - Collect silts where possible.
 - Map all outcrops.
 - Control will be by hip chain and compass with use of topo maps.

SCROGGIE

- a) Project Location
 - i) Scroggie
 - ii) Area is located along the upper drainage of Scroggie Creek south of the Stewart River in Dawson Mining Division on NTS map sheets 115J/15&16 and 115O/01&02
 - iii) Figures 1, 4, 17, 18, 19 & 20.
- b) Fixed wing aircraft provides access to the area from Dawson, 70 km to the north, to a good gravel airstrip on Scroggie Creek where an active seasonal placer mine is in operation. ATV can be rented from the operator for reasonable charge for access to upper Scroggie Creek and Mariposa Creek.
- c) Prospecting Targets
 - i) Gold
 - ii) Epithermal / mesothermal gold mineralization similar to the wide variety of deposits already known in the Tintina Gold Belt.
- d) Reason for prospecting is to continue with last year's successful prospecting program in the same area. The following points are helpful:
 - RGS data provides little and in some cases no indication of mineralization occurring in the area even though some success was achieved last year.
 - Last year's silt samples gave anomalous values only where they were collected within or very close to an area of anomalous gold in soils. Others described this same phenomenon on properties in the Pogo gold camp at the recent Cordilleran Roundup.
 - A two km by two km area containing silts and soils anomalous for As & Pb, with a smaller contained anomalous Bi, Au, S and Sb zone was identified in the general area as was a one and one-half by one km zone of anomalous Au defined by soils and rocks (RUM RUN claims) even though the RGS data was negative.
 - Detailed silting did however identify both zones and it is this style of prospecting that will be used most in the area of interest.
 - The granite is a target for hosting large tonnage low-grade gold like the Fort Knox deposit in Alaska. RUM RUN claims are such a target.
 - The metamorphic rocks provide a target for higher-grade lower tonnage deposits such as Pogo, Donlin Ck and many others found in the Tintina Gold Belt.
 - Several other claims have been staked on spec by local individuals. Their claims are shown on Figures 19 and 20.
 - Extensive placer gold production along Scroggie and Mariposa Creeks.
 - The area has not been glaciated which is assumed to have resulted in deep leaching particularly where sulphides are present. This is probably the biggest factor in explaining the low metal values in the RGS data. Refer to Figure 4.
 - Aeromag data, Figure 18, shows a low mag response to the granite batholith indicative of reduced intrusion and thus good association for Tintina Gold Belt style mineralization. A mag low occurs over the Au-Bi-As-Pb anomaly described above on the west side of Scroggie Creek below Stevens Creek. This mag low extends ten km up Scroggie Creek into the headwaters of Cripple Creek, as does an orange weathering quartz muscovite schist. An intermittent mag high occurs along both sides of this mag low. Interpretation of this pattern is uncertain but may become useful during the course of our prospecting. A pronounced mag low occurs within the granite over ground sampled by Y59 that was anomalous for gold (30ppb).
 - Minfile occurrences in the area and shown on Fig 17 are as follows: J103 staked 1987 – no info; O075 originally staked 1917 over qtz veins (?), restaked 1987 to cover active placer ground; J072 staked 1970 – Cu, Mo, py-mag-qtz veins cut qtz mica schist near Cret qtz monz stock. IP and mag response; 115J104 staked 1987 – no info; 115O116 staked 1987 over peridotite for PGM & Au potential; 115J092 staked 1977 for Uranium potential; 115J106 staked 1988 – no info.

e)

Proposed Work. Refer to Figure 20.

- Stake claims over the Au-Bi-As-Pb anomaly discovered last year.
- Follow up on sample Y59 (30 ppb Au) by silting the unsampled easterly flowing creek 700 m south, prospecting both creeks for mineralized float and running a soil line at 75 m intervals along a contour line at mid slope on the hillside.
- Collect silts from all flowing streams within the area outlined on Figure 20.
- Collect soils at 75-m interval along a contour line over the quartz muscovite schist north of Scroggie Creek between Stevens and Mariposa Creeks.
- Map all outcrops.
- Control for silting will be by topo map and compass, for soils by hipchain and compass.

GENERAL FOR ALL AREAS

- e) General. Minimal disturbance to land in all areas as only surficial samples will be collected. All garbage will be compacted and carried out of the bush for proper disposal in garbage receptacle or municipal landfill.
 Samples will be sent to Chemex Labs for analysis.
- Till samples weighing approx 2 kg will be dried and screened to -150 mesh.
 - Soil and silt samples weighing approx 1 kg will be dried and screened to - 80 mesh.
 - Rock samples are generally made up of three to seven chips and will be crushed and pulverized for digestion and analysis.
 - All samples will be routinely analyzed for gold using fire assay preconcentration and extractable solution - atomic absorption finish on a 30 gm sample thereby producing limits of 1 - 1,000 ppb Au.
 - All silts will also be routinely analyzed by a 32 element ICP package.
 - Areas with anomalous gold results will have some or all of their till and soil samples selected for ICP or MS-ICP analysis.
- f) Supporting Data. The following will be provided in our Summary or Technical Report.
- Topo map at 1:50,000 scale showing location of all samples and outcrops.
 - Copy of field notes describing all samples and outcrops.
 - Copy of all assays and geochemical data
- g) Estimate of working days in field and number of samples collected provided in the following table;

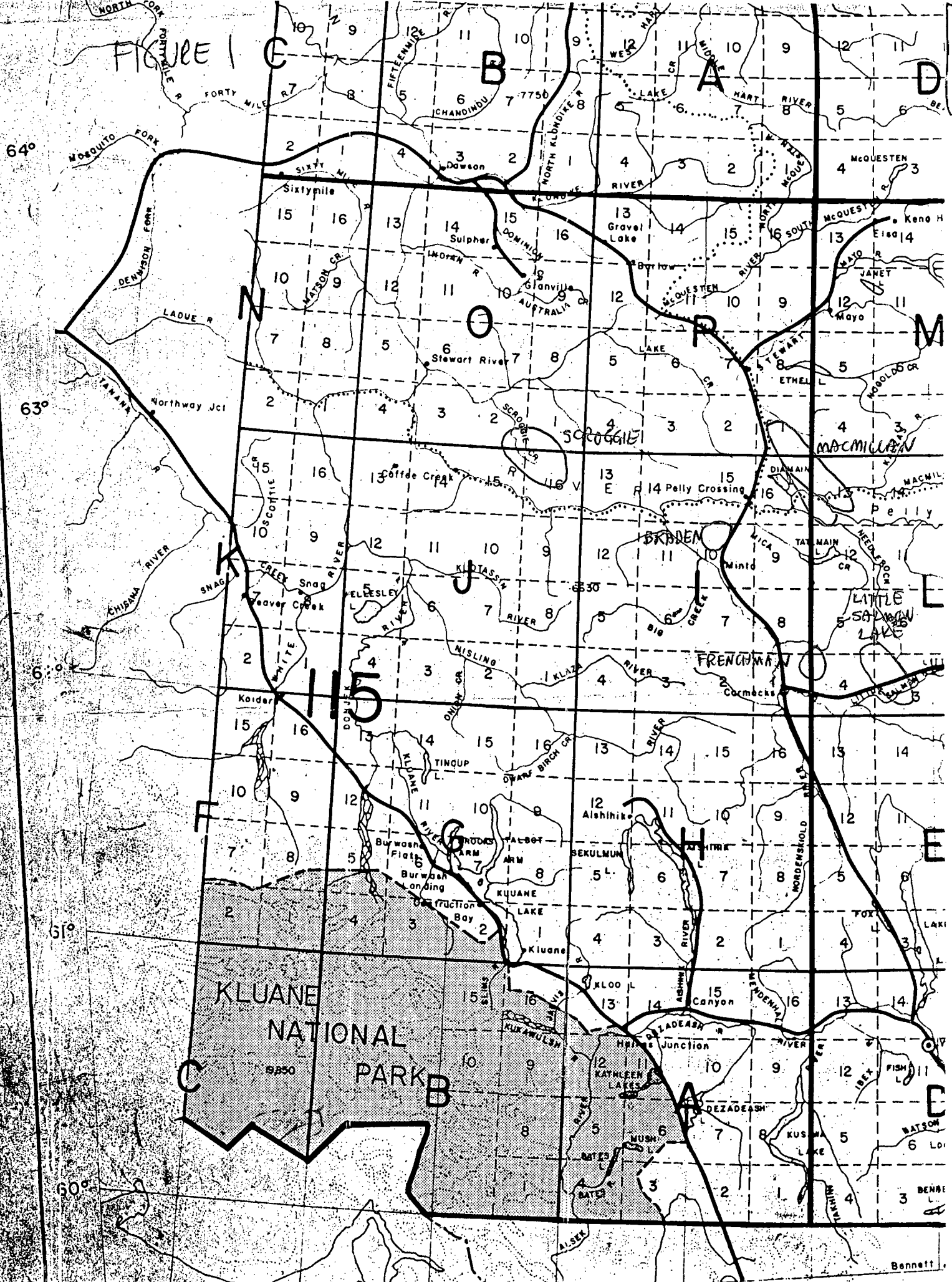
AREA	G R Days	D B Days	# samples
MacMillan	15	15	450
Frenchman	4	4	90
Braden	4	4	90
Little Salmon Lake	4	4	90
Scroggie	5	5	140
TOTAL	32	32	860

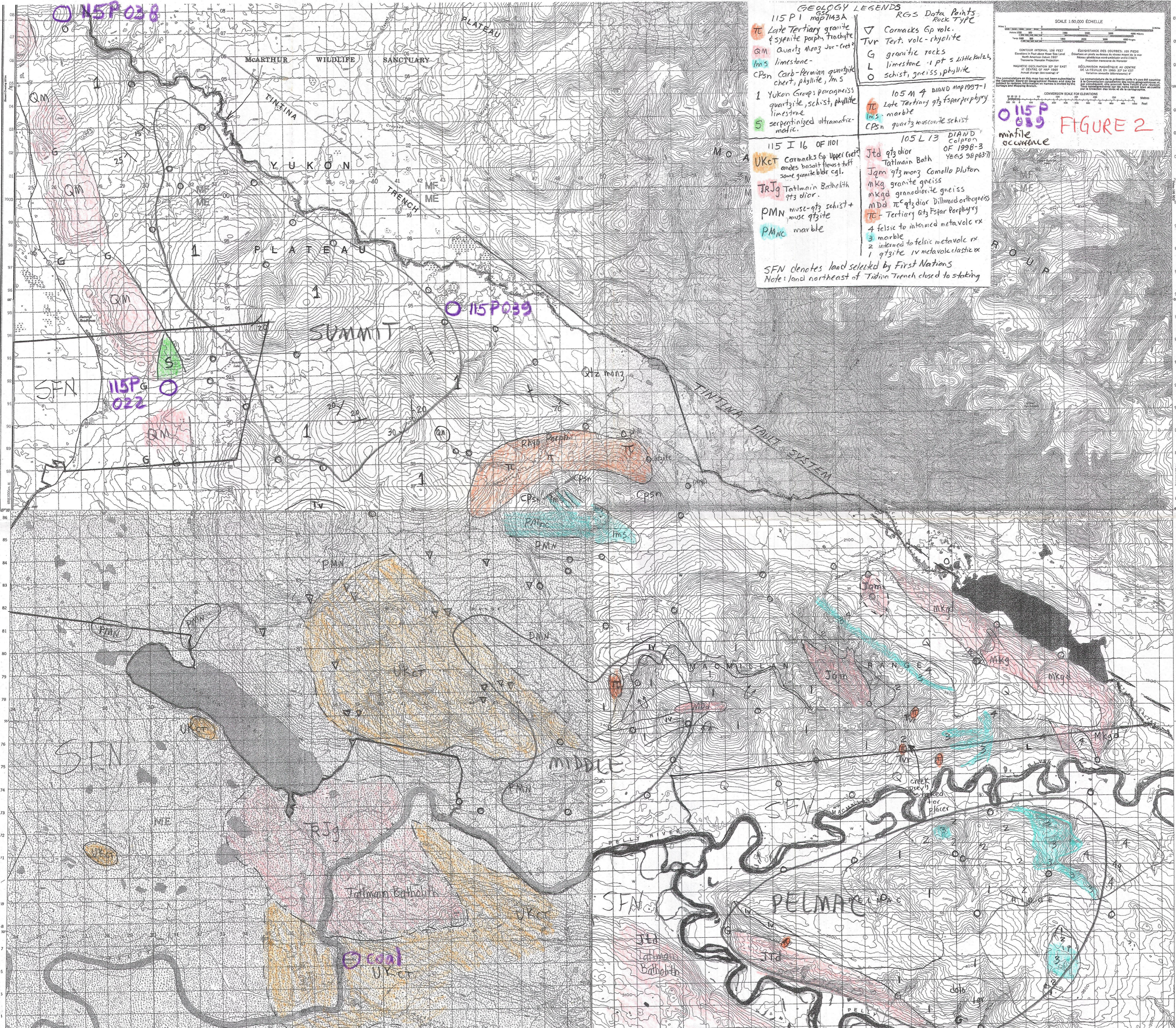
- h) Project budget provided on application form. Gordon Richards and Dave Bennett are proposing to work together on the above proposal under two separate grants as described in section 2 i b ii on page 6 of YMIP outline and discussed with Mr Ken Galambos, coordinator for YMIP, Feb 28, 2000. The area covered and expenses will be divided between the applicants as described therein.

BUDGET SUMMARY for ALL FOUR PROPOSALS

ITEM	Grassroots	Grassroots	Target	Target
	G Richards	D Bennett	Packersba	Rum Run
Daily Living Expense	1120	1120	280	280
Truck 2400km @ \$.42/km =1008 ¼ share	250	250	250	250
Helicopter \$1900 split	950	950	1900	
Fixed Wing to Scroggie Ck				950
ATV Rental split	300	300		
Geochem	7800	7800	6000	3750
Report	500	500	500	500
Freight samples to Chemex Labs Vcr	680	680	300	200
Supplies	600	600	200	200
Wages			3200	3200
TOTALS	\$ 12,200	\$ 12,200	\$ 12,630	\$ 9,330

FIGURE 1





GEOLOGY LEGENDS

115 P 1 map 1143A

- TC Late Tertiary granite & syenite porph, trachyte
- QM Quartz Monz Jur-Cret
- lms limestone
- CPSn Carb-Permian quartzite chert, phyllite, lms
- 1 Yukon Group: paragneiss quartzite, schist, phyllite limestone
- 5 serpentinized ultramafic

105 M 4 DIAND map 1997-1

- TC Late Tertiary g₃ fsp/porphyry
- lms marble
- CPSn quartz muscovite schist

115 I 16 OF 1101

- UKct Carmacks Gp Upper Cret andes basalt flows + tuff some granite blob cgl.
- TRJg Tatlain Batholith g₃ dior.
- PMN musc-g₃ schist + musc qtzite
- PMnc marble

105 L 13 DIAND Colton OF 1998-3 YE65 98 p6371

- Jtd g₃ dior
- Tatlain Bath
- Jqm g₃ monz Comello Pluton
- Mkg granite gneiss
- Mkgd granodiorite gneiss
- Mbd π g₃ dior Dillwood orthogneiss
- TC Tertiary g₃ fsp/porphyry
- 4 felsic to intermed metavolc rx
- 3 marble
- 2 intermed to felsic metavolc rx
- 1 qtzite IV metavolc clastic rx

SFN denotes land selected by First Nations
 Note: land northeast of Tintina Trench closed to staking

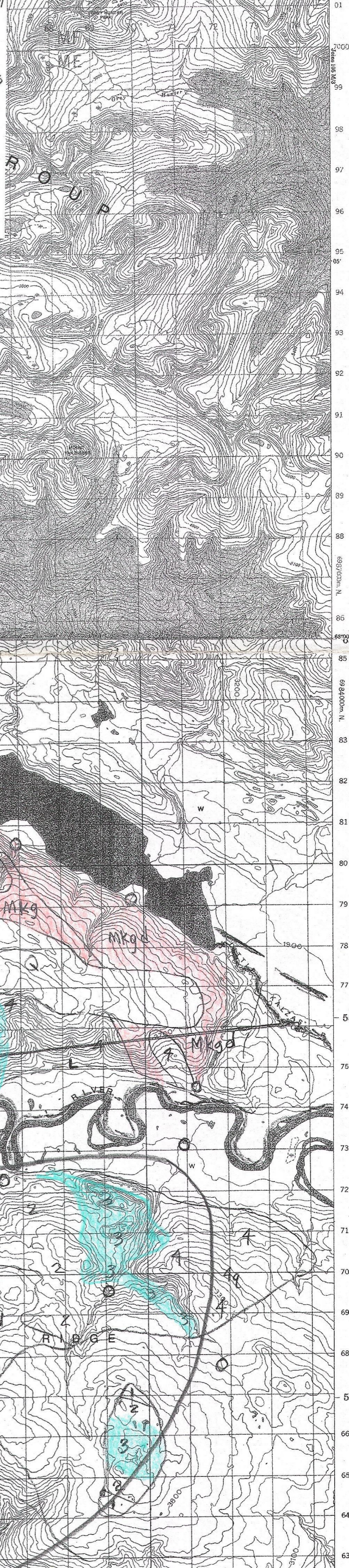
SCALE 1:50,000 ÉCHELLE

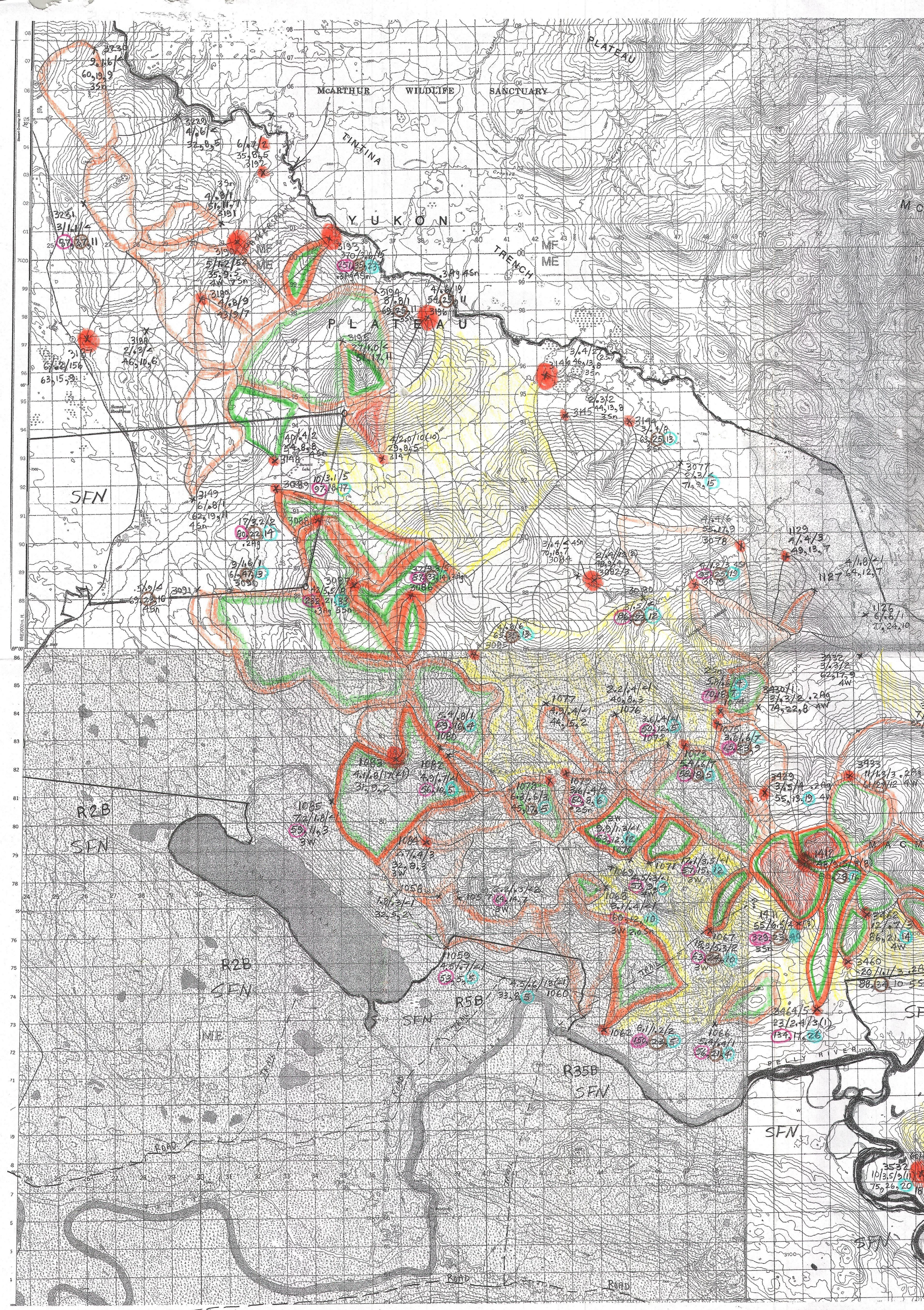
COURTOUR INTERVAL: 100 FEET / ÉCHELLE DE PROFIL: 100 PIEDS

MAGNETIC DECLINATION 27° 54' EAST / DÉCLINAISON MAGNÉTIQUE AU CENTRE DE LA FEUILLE EN 1980: 27° 54' EST

CONVERSION SCALE FOR ELEVATIONS

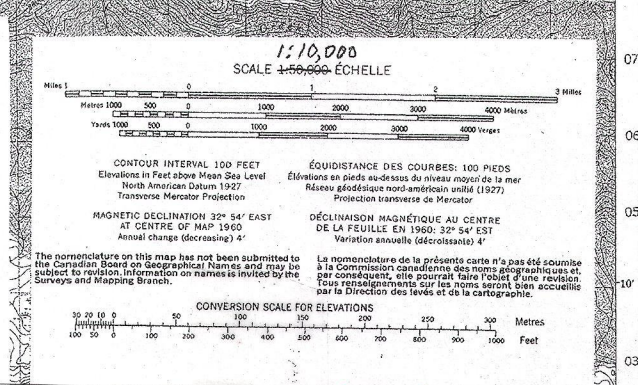
0115P 039 **FIGURE 2**
 minifile occurrence





RG5 Geochem Legend

sample no.
 3193 ppm As/ppm Sb/ppb Au
 370/3.6/15 ppm Zn/ppm Cu/ppm Pb
 Ag reported if ≥ 0.2 ppm
 Sn reported if ≥ 3 ppm
 W reported if ≥ 4 ppm
 (3) value for 2nd analysis Au



70%tile & 90%tile for 6 elements on 4 map sheets
 bracketed values are for C Psn bedrock - the most common rock type in area.

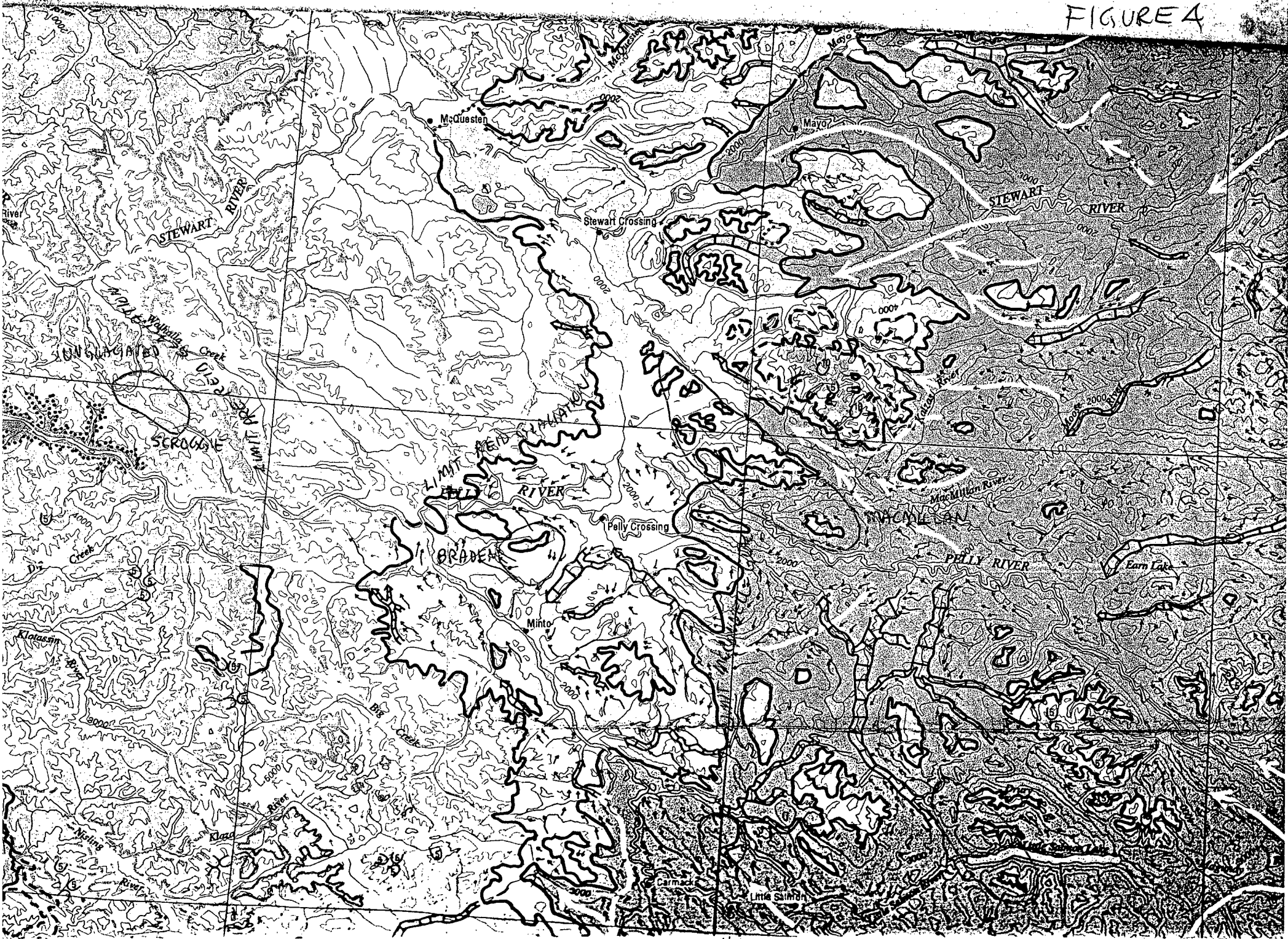
	As		Sb		Au		Zn		Cu		Pb	
	70%	90%	70%	90%	70%	90%	70%	90%	70%	90%	70%	90%
115P	8	27	0.8	2.1	2	14	80	151	22	35	12	20
115I	5.4	9.2	.4	.9	2	8	50	65	16	24	4	6
105L	9	17	1.0	2.5	3	7	100	208	27	43	13	23
105M	11	30	.9	2.2	3	7	100	169	30	42	15	21

Colour Code for anomalous values

No Data	Colour Code for anomalous values		
Element	70%tile	90%tile	Au only: if both analyses are anomalous
As			
Sb			
Au			
Zn, Cu, Pb			
Hg			

FIGURE 3

FIGURE 4



FRENCHMAN

LITTLE SALMON LAKE

5

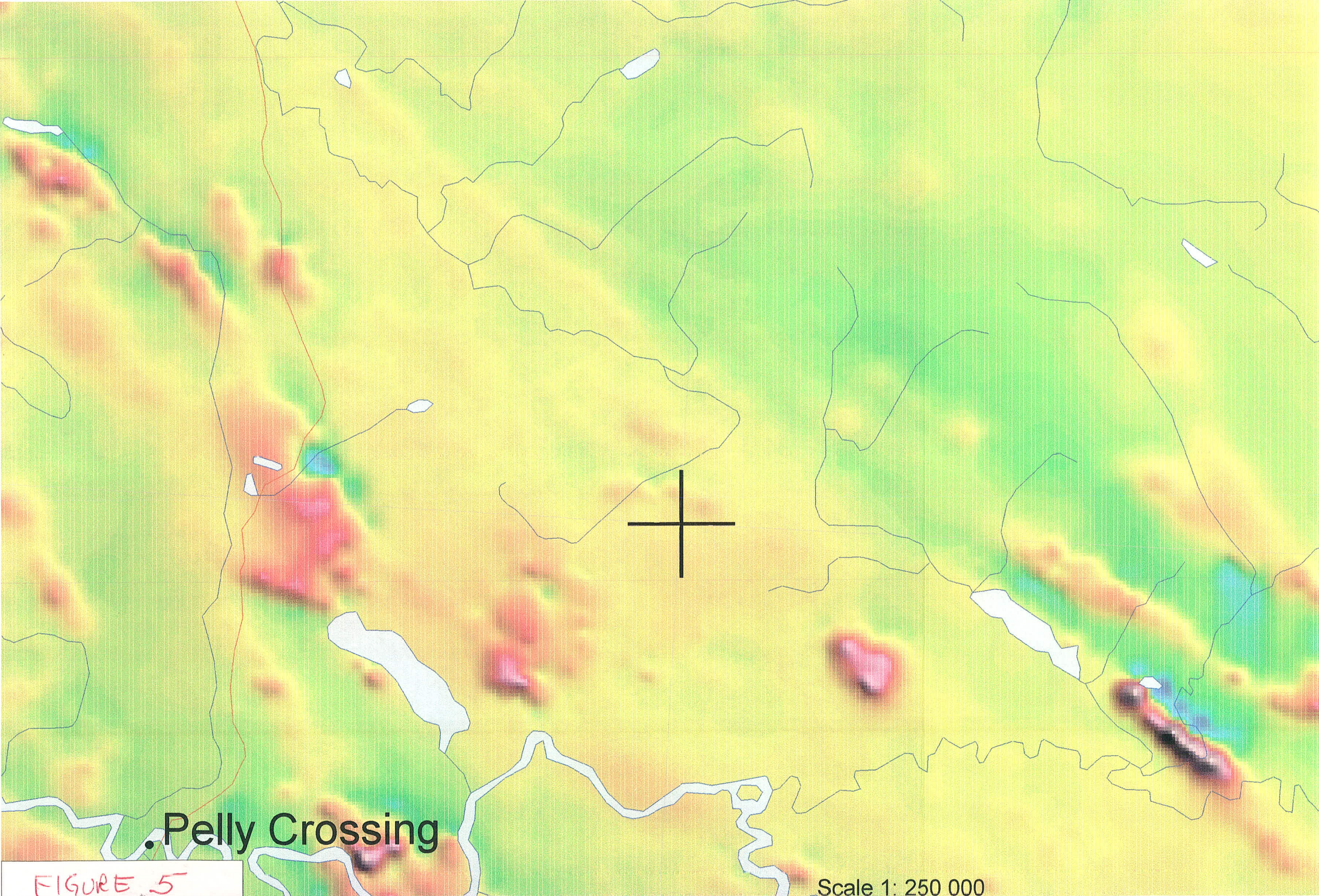
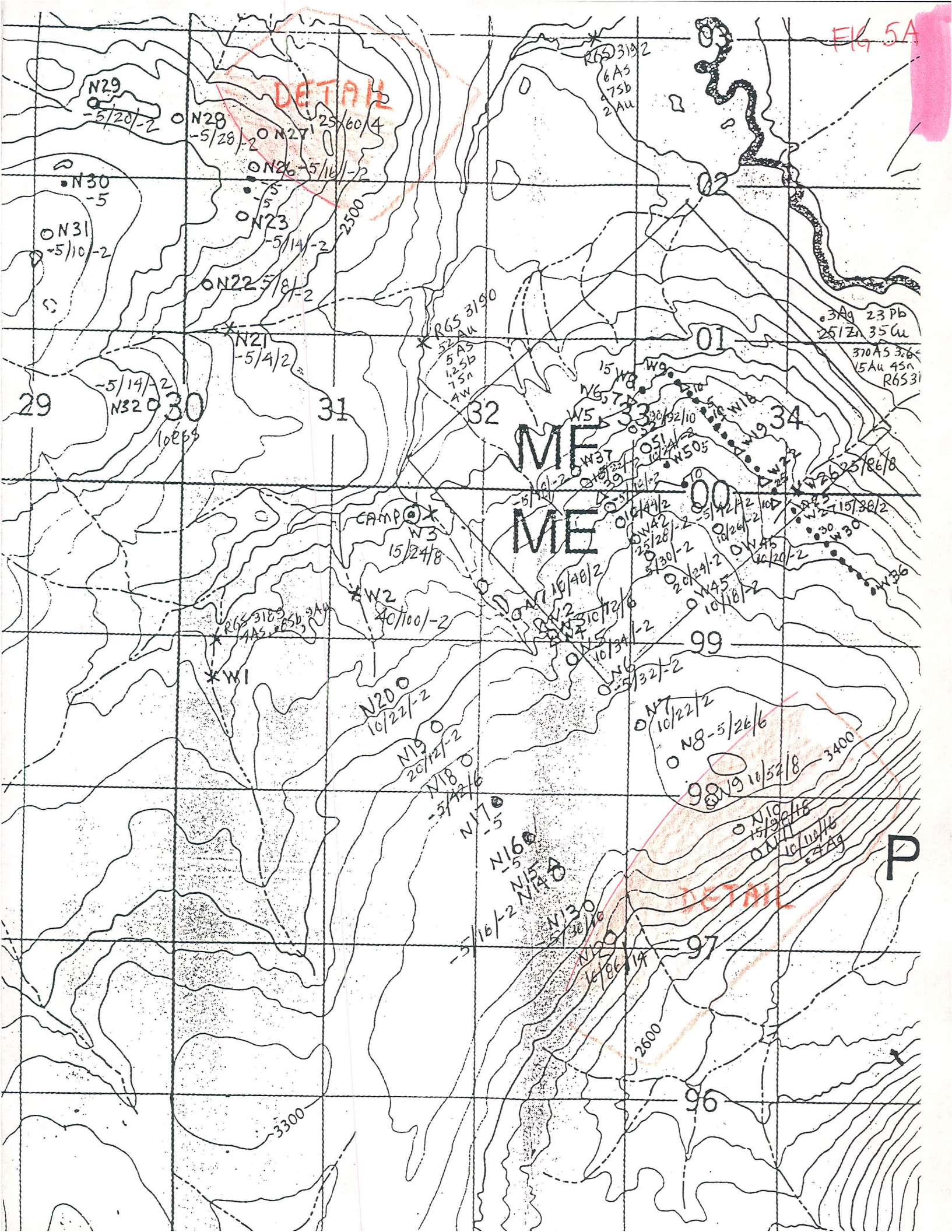


FIGURE 5

Scale 1: 250 000



DETAIL

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3A9 23 Pb
25/21 35 Cu
370 A5 3.6
15 Au 45n
R65 31

CAMP
W3
15/24/8

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40/100/-2

N20
10/22/-2

N19
20/12/-2

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5/12/6

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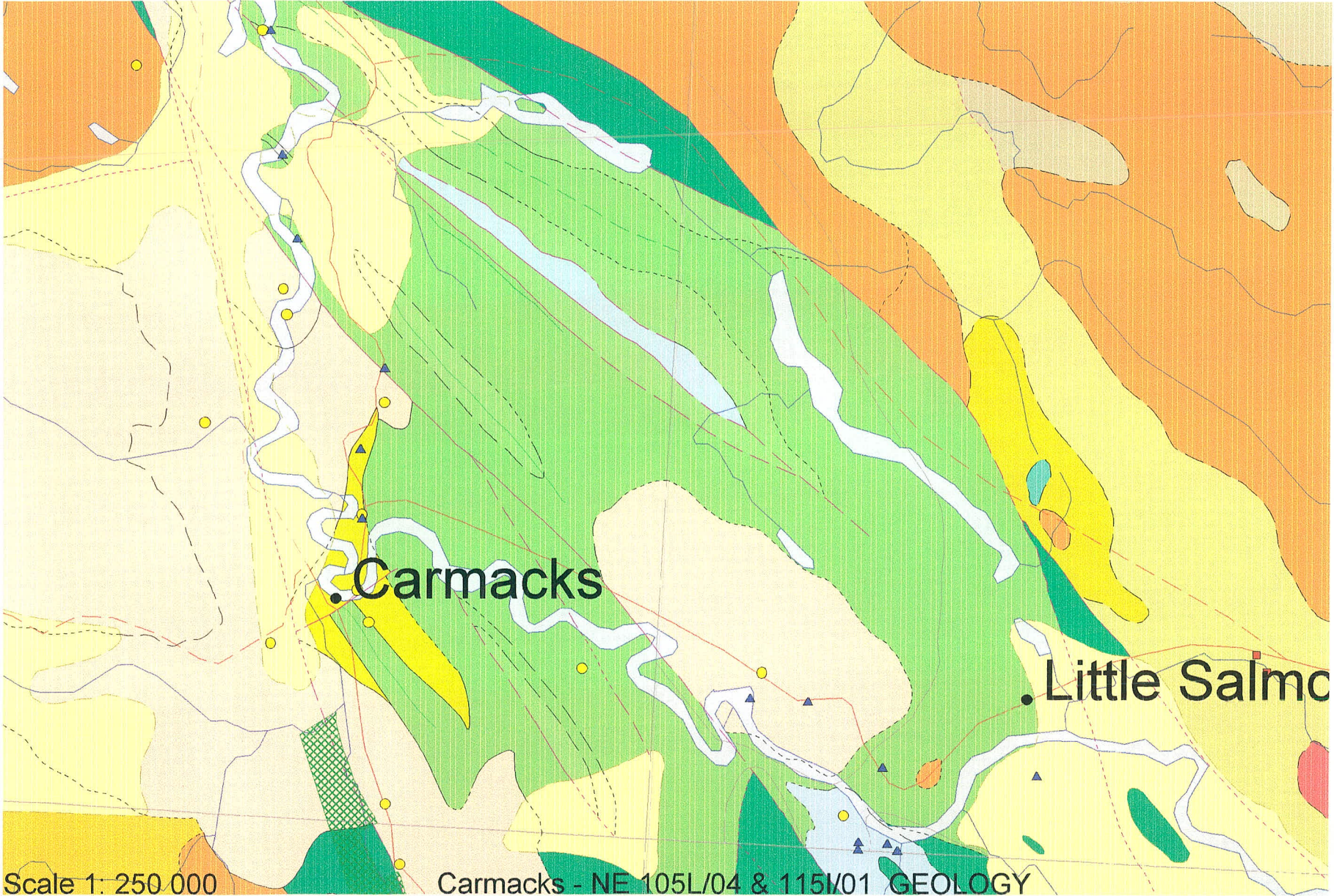
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FIGURE 6



Scale 1:250,000

Carmacks - NE 105L/04 & 115V/01 GEOLOGY

Figure 7

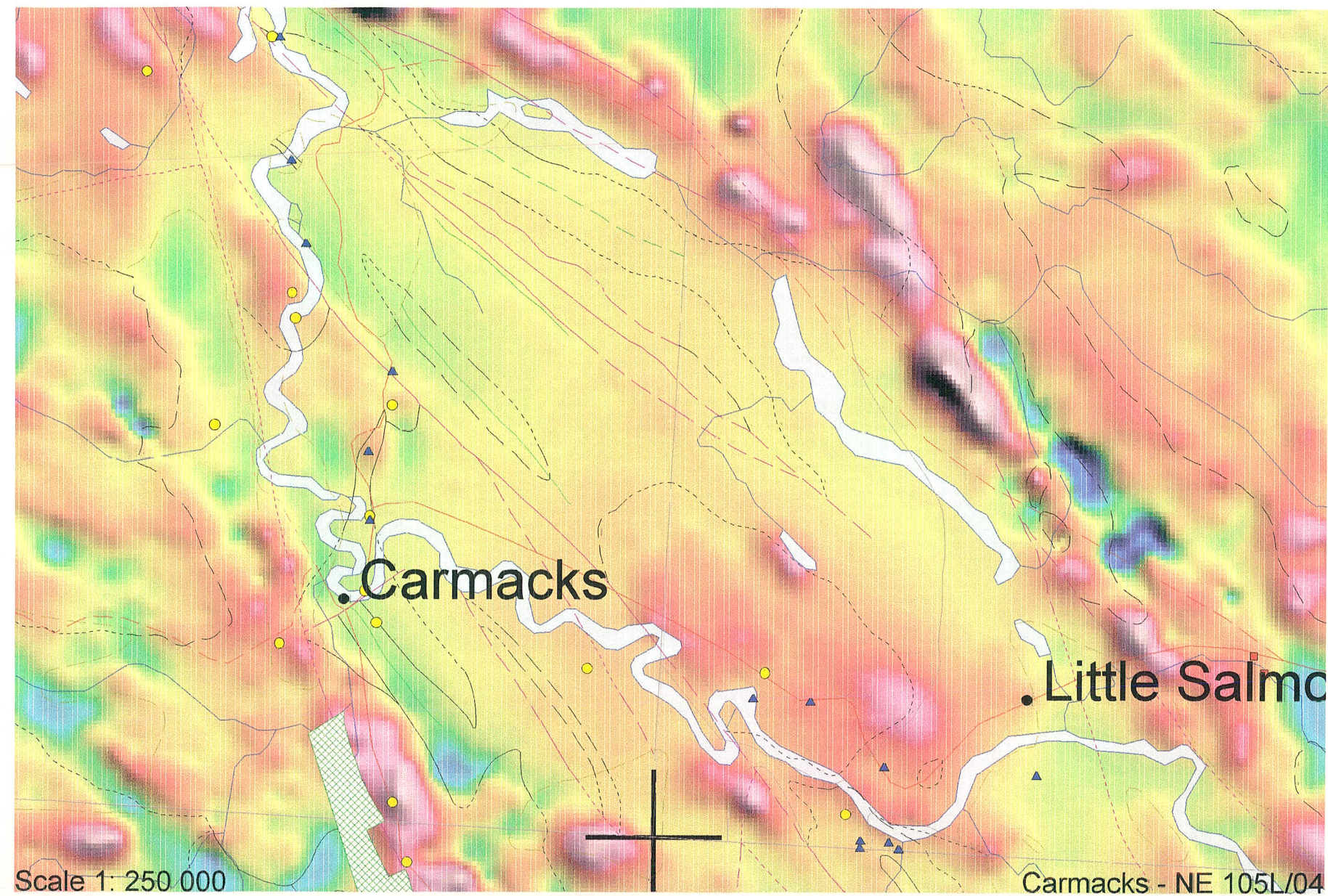


FIGURE 8

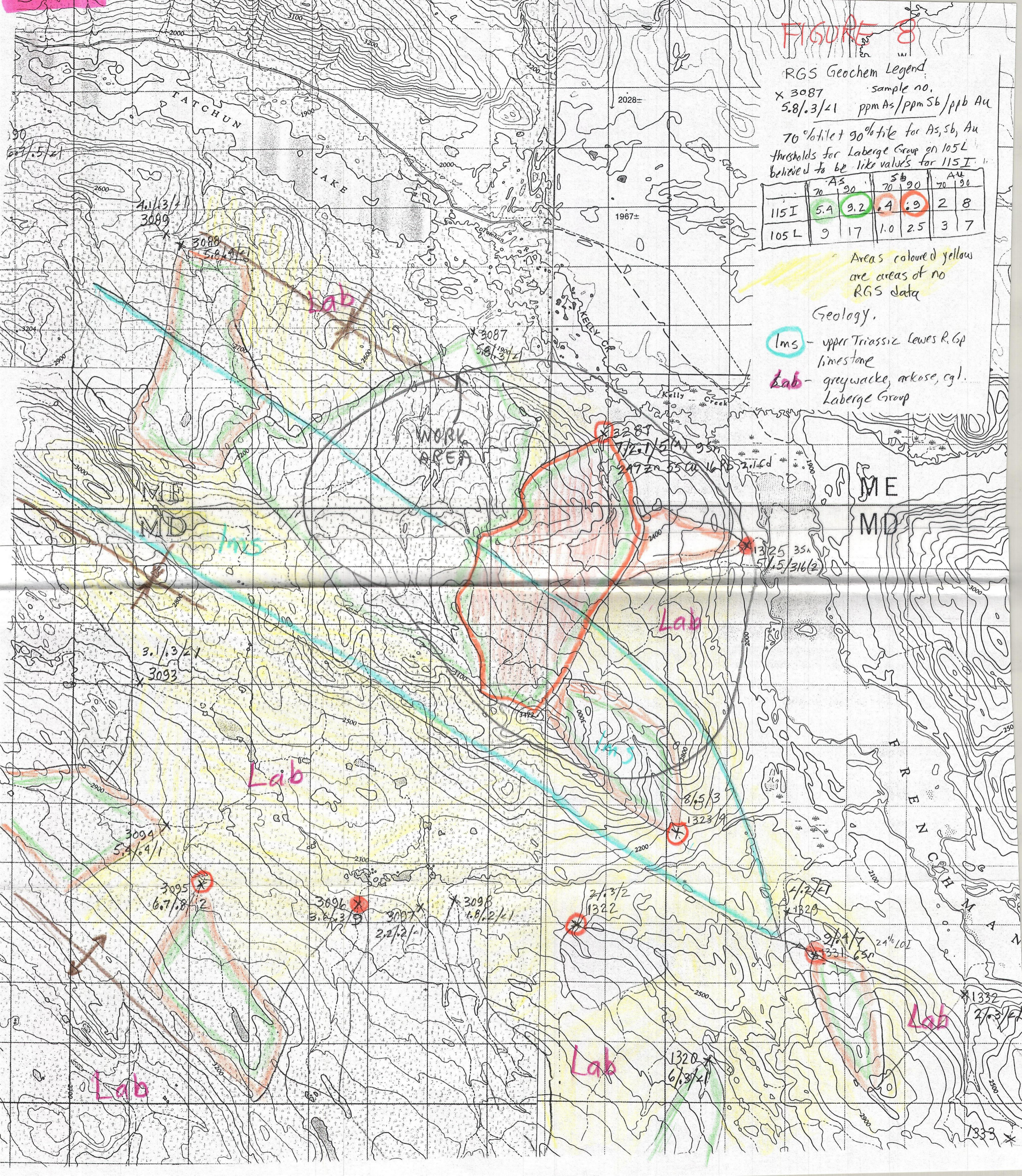
RGS Geochem Legend
 X 3087 sample no.
 5.8/3/21 ppm As/ppm Sb/ppb Au
 70% tile + 90% tile for As, Sb, Au
 thresholds for Laberge Group on 105L
 believed to be like values for 115I.

	AS		Sb		Au	
	70	90	70	90	70	90
115I	5.4	9.2	0.4	0.9	2	8
105L	9	17	1.0	2.5	3	7

Areas coloured yellow
 are areas of no
 RGS data

Geology.

- lms - upper Triassic Lewis R. Gp limestone
- Lab - greywacke, arkose, cgl. Laberge Group



4.1/3/21
 X 3089
 5.6/4/21

X 3087
 5.8/3/21

X 3287
 7.2/1/5/21 9.5
 2.9/2/3/21 16.8

X 325 35A
 5.1/5/3/21 6.2

3.1/3/21
 X 3093

X 3095
 6.7/0.8/2

X 3096
 3.6/3/9

X 3097
 2.2/2/21

X 3098
 4.8/2/21

X 1322
 2.1/3/2

X 1323
 8/5/3

X 1329
 4/2/21

X 1331
 9/4/21 24% LOI
 6.5

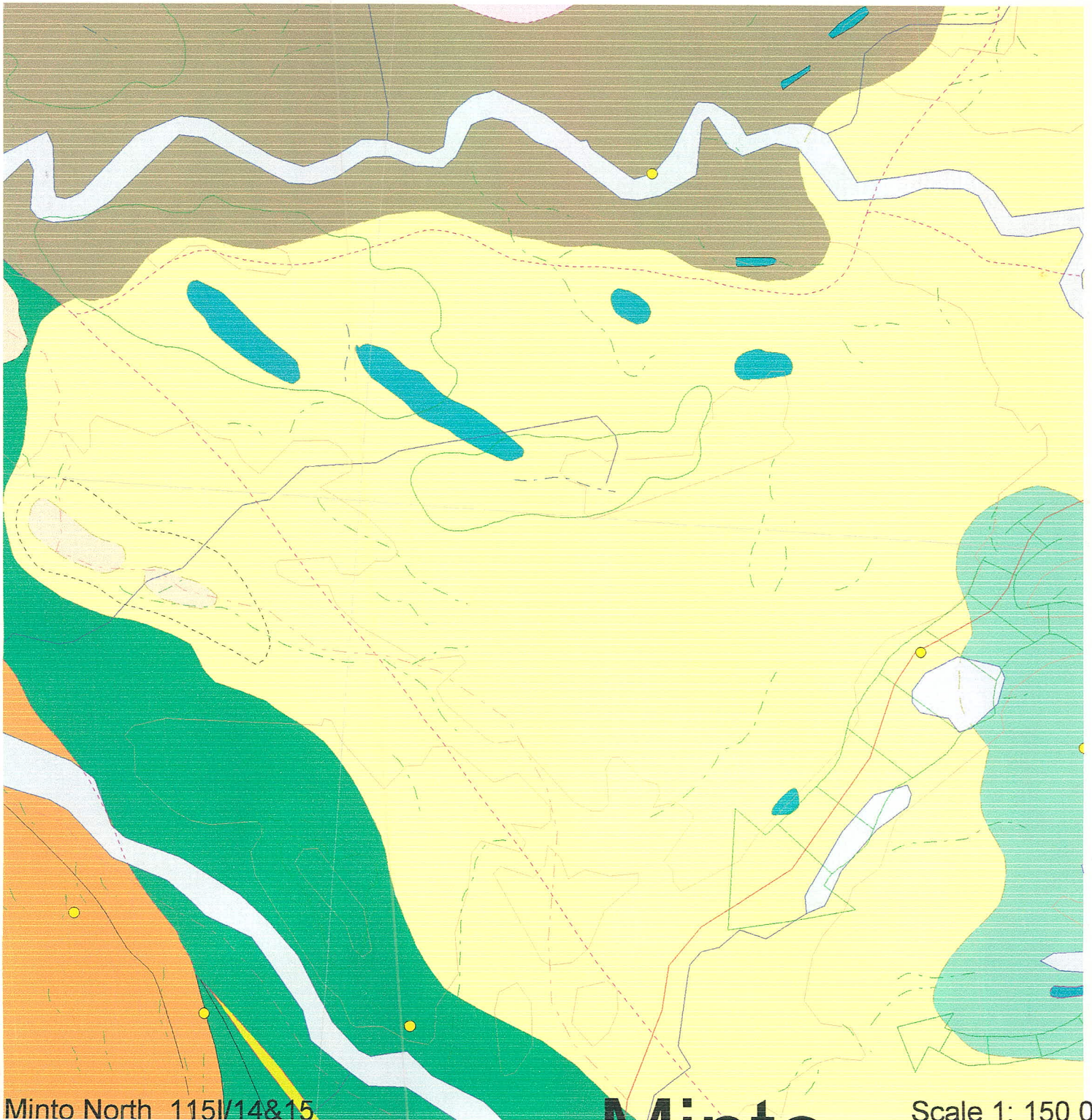
X 1320
 6/3/21

X 1332
 2/3/21

X 1333

Braden

Figure 9



Minto North 115/14&15

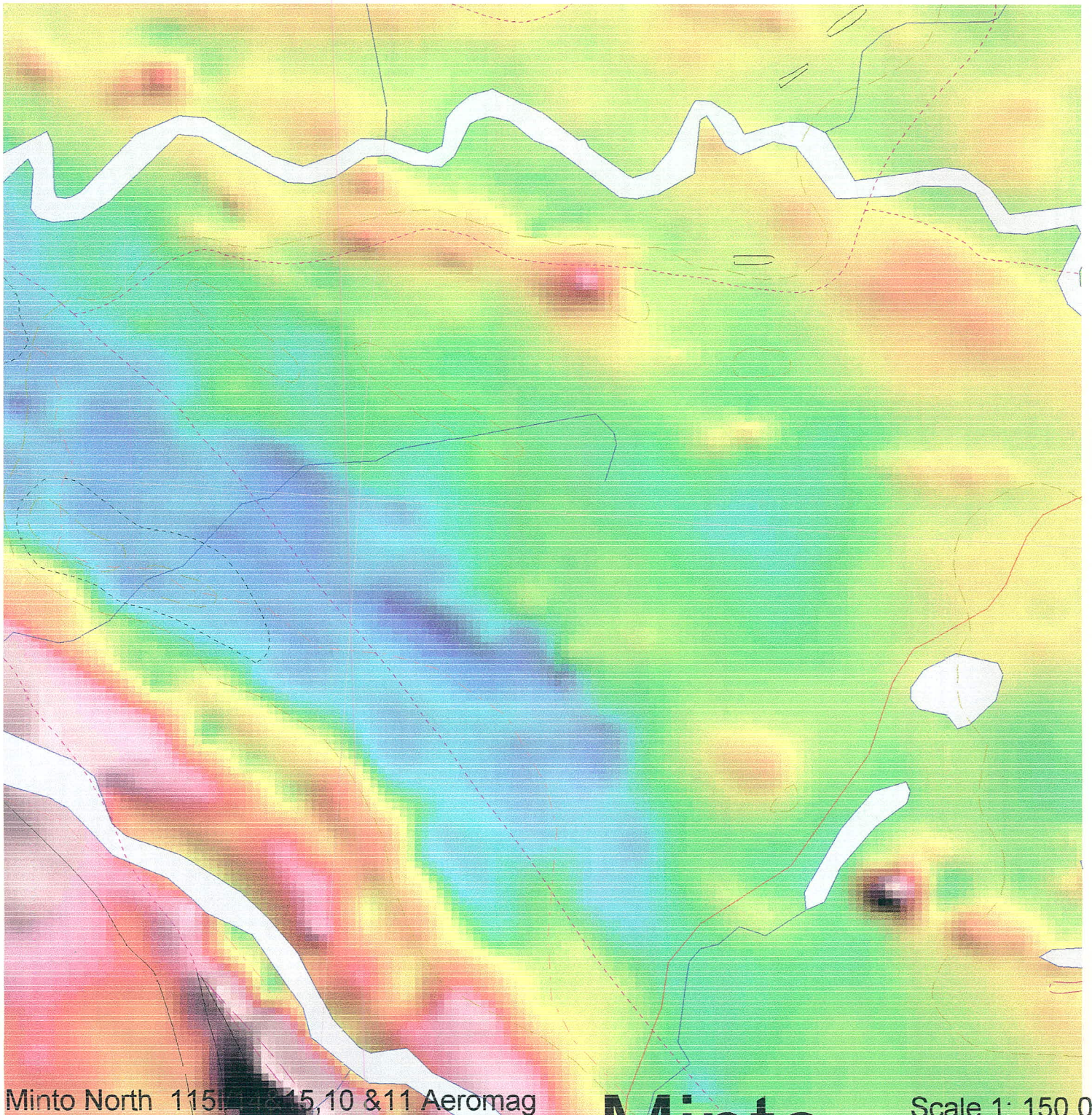
10/11 Geology

Minto

Scale 1: 150 000

Braden

Fig 10



Minto North 115, 10 & 11 Aeromag

Scale 1: 150 000

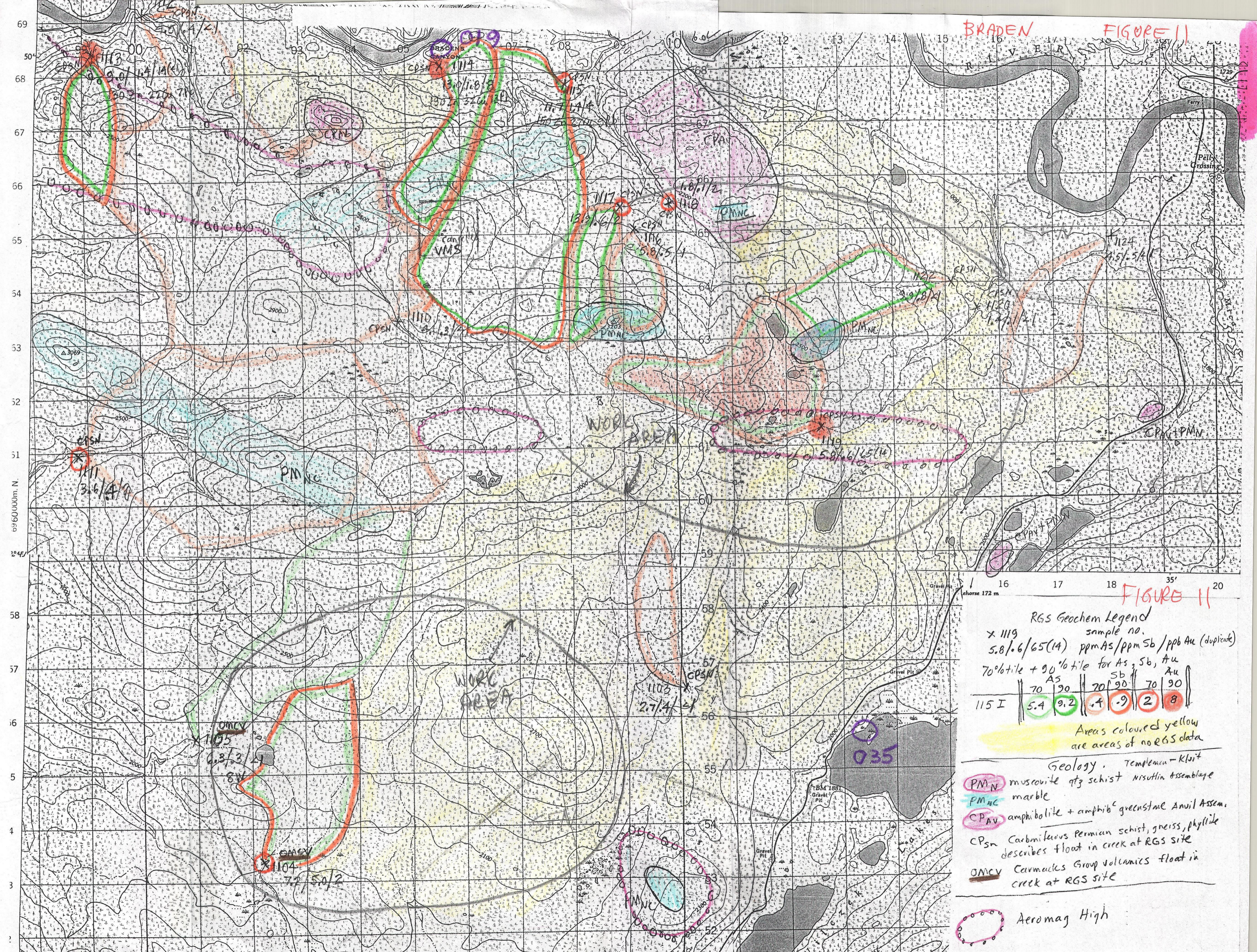


FIGURE 11

RGS Geochem Legend

x 1119 sample no.
 5.8/.6/65(14) ppmAs/ppmSb/ppbAu (duplicate)
 70%tile + 90%tile for As, Sb, Au

Sample	As		Sb		Au	
	70	90	70	90	70	90
115 I	5.4	9.2	.4	.9	2	8

Areas coloured yellow are areas of no RGS data

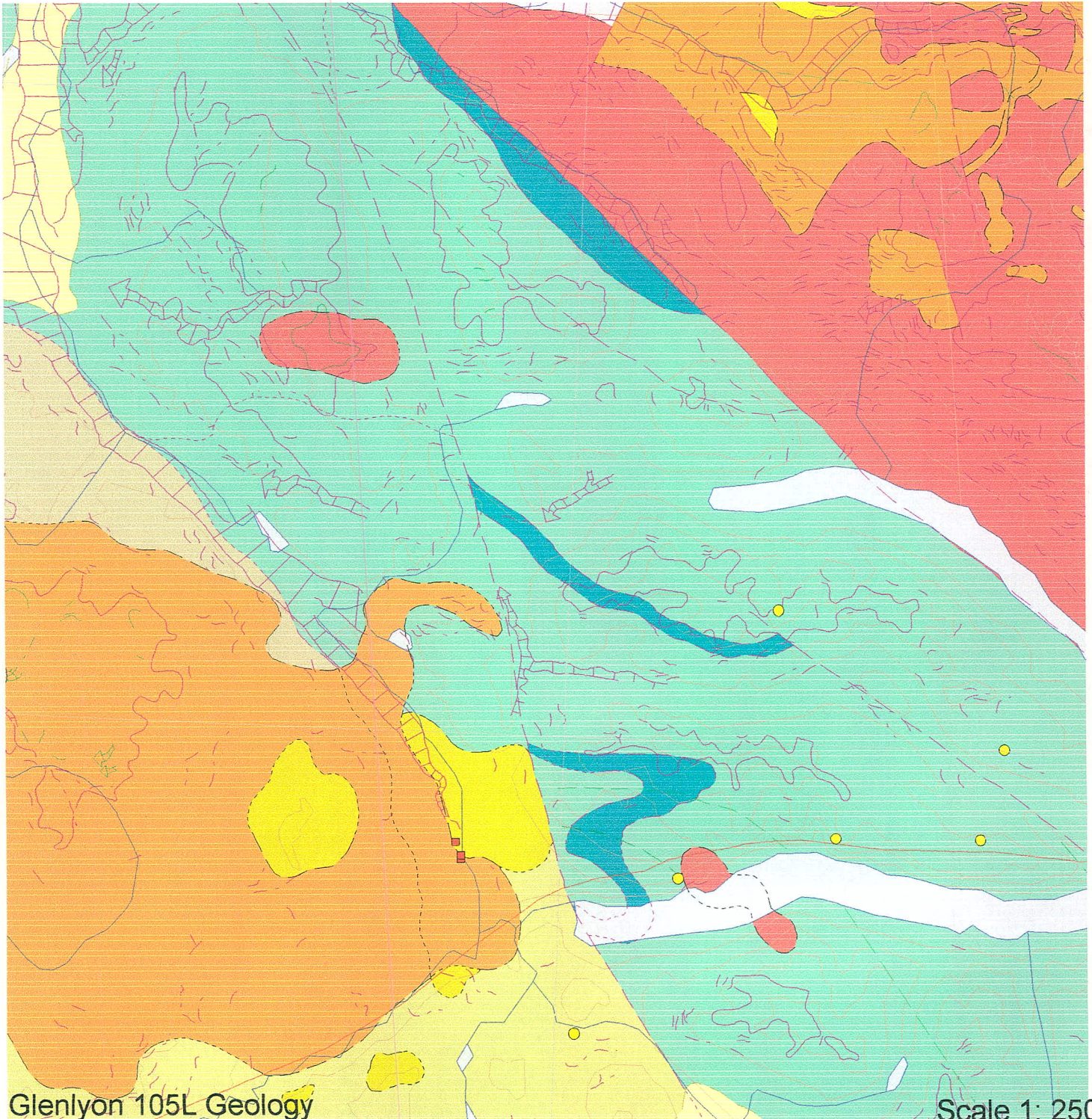
Geology. Templeman-Kloit

- PMN muscovite qtz schist nisutlin assemblage
- PMNC marble
- CPAV amphibolite + amphib^c greenstone Anvil Assem.
- CPSN Carboniferous Permian schist, gneiss, phyllite describes float in creek at RGS site
- ONCV Carmacks Group volcanics float in creek at RGS site

Aeromag High

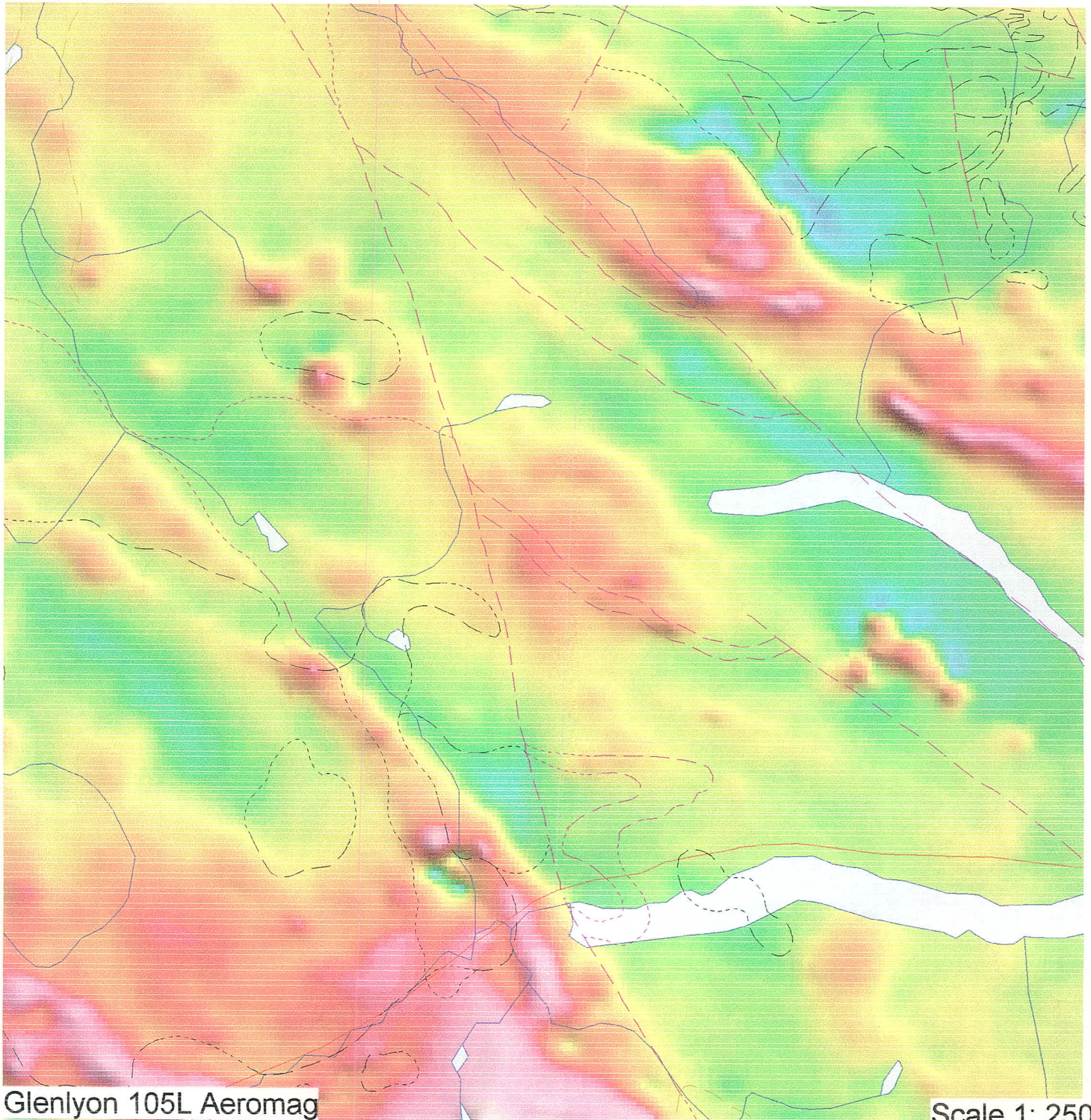
Little Salmon Lake

Figure 13



Little Salmon Lake

Figure 14



Glenlyon 105L Aeromag

Scale 1: 250 000

FIGURE 15
LITTLE SALMON
LAKE

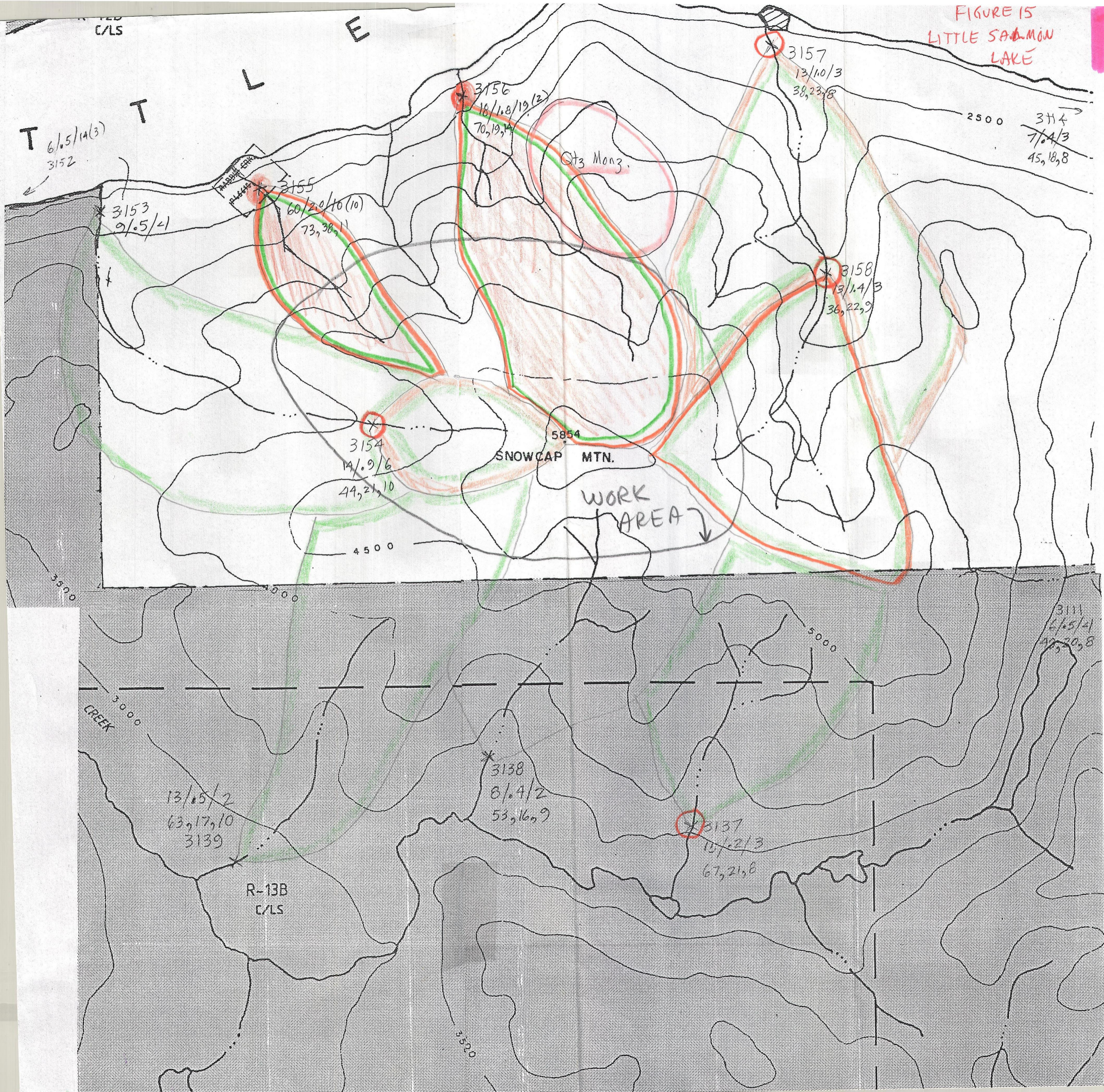


FIGURE 16
LITTLE SALMON LAKE

16

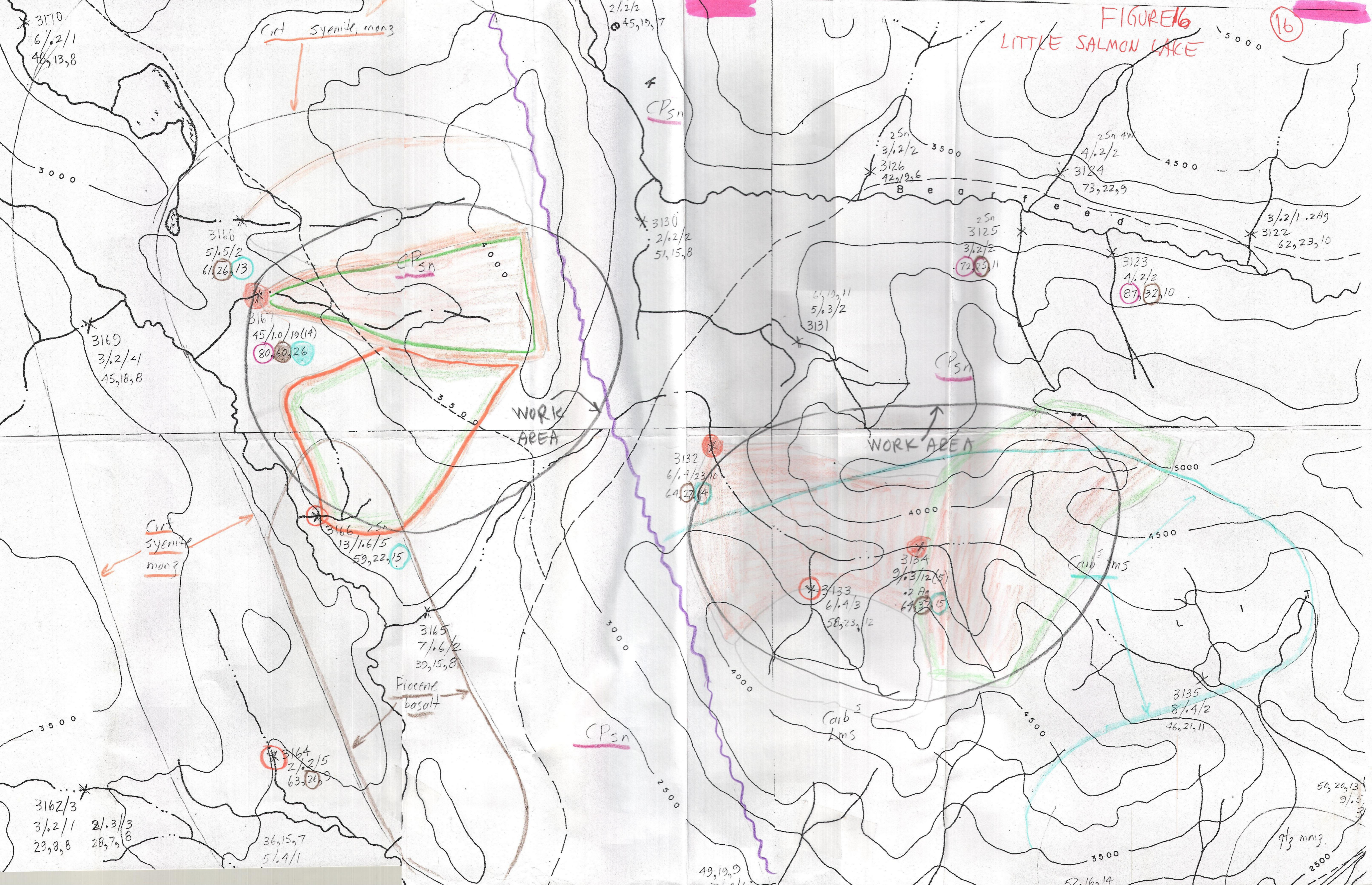


Figure 17
Scroggie

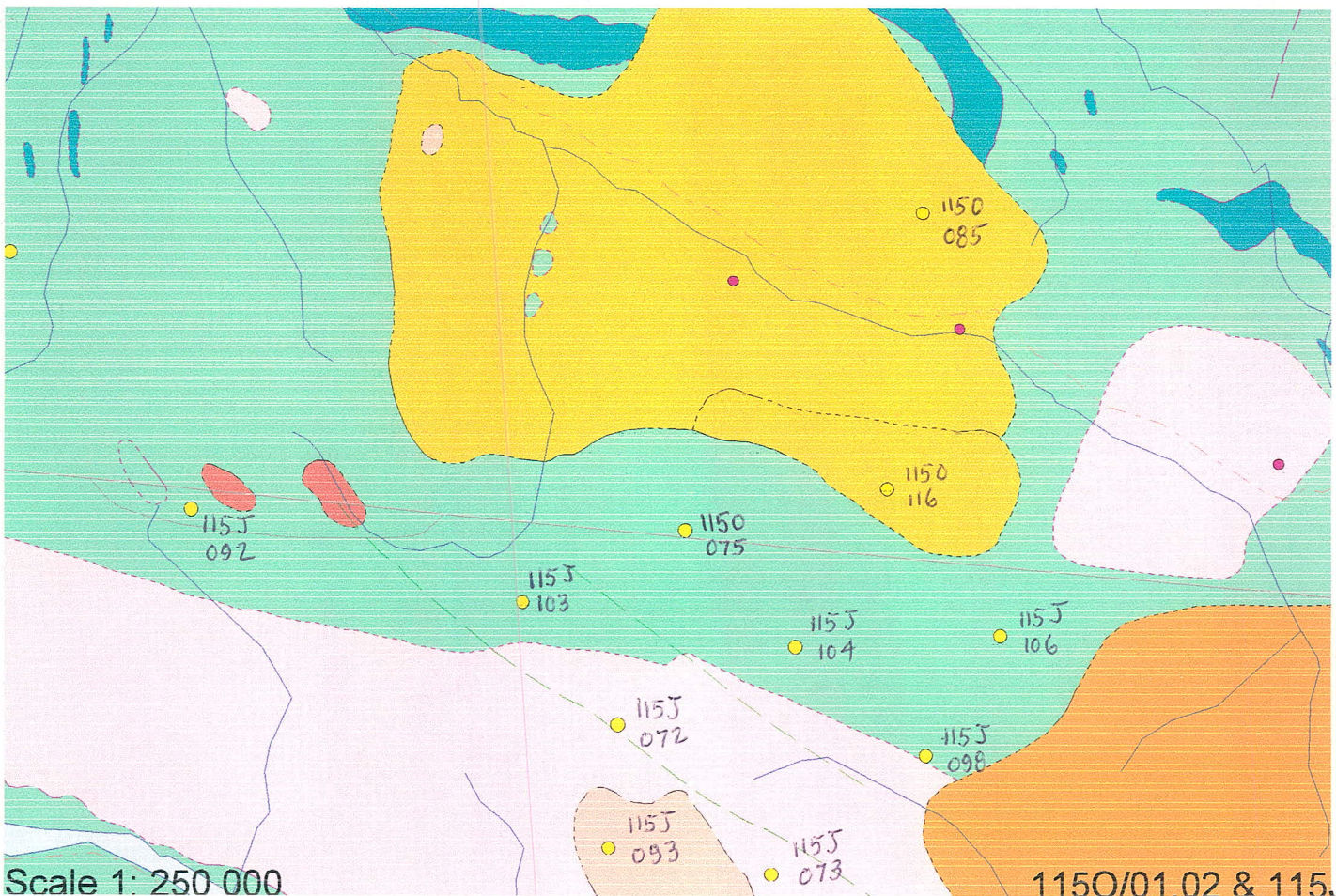


Figure 18
Scroggie

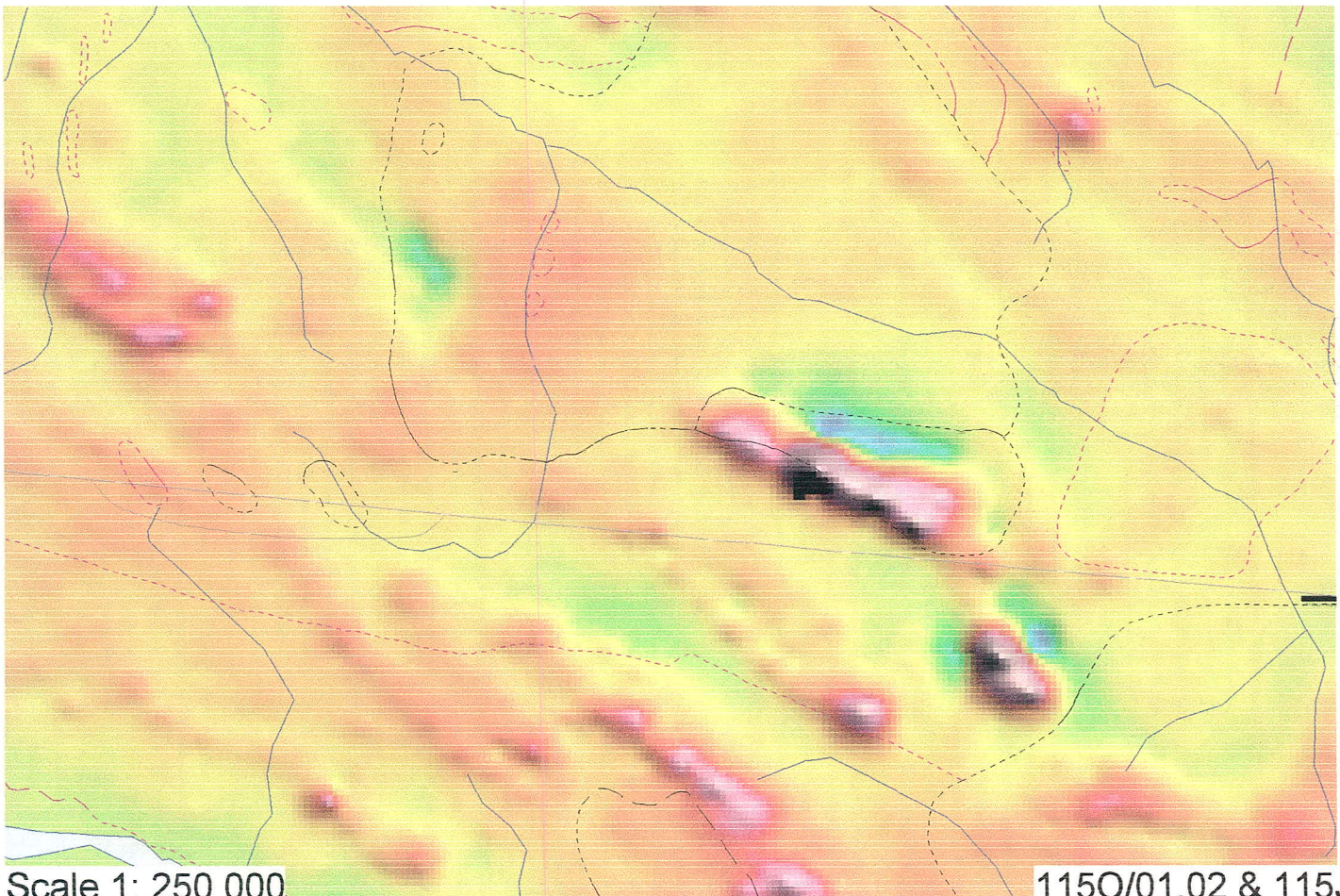
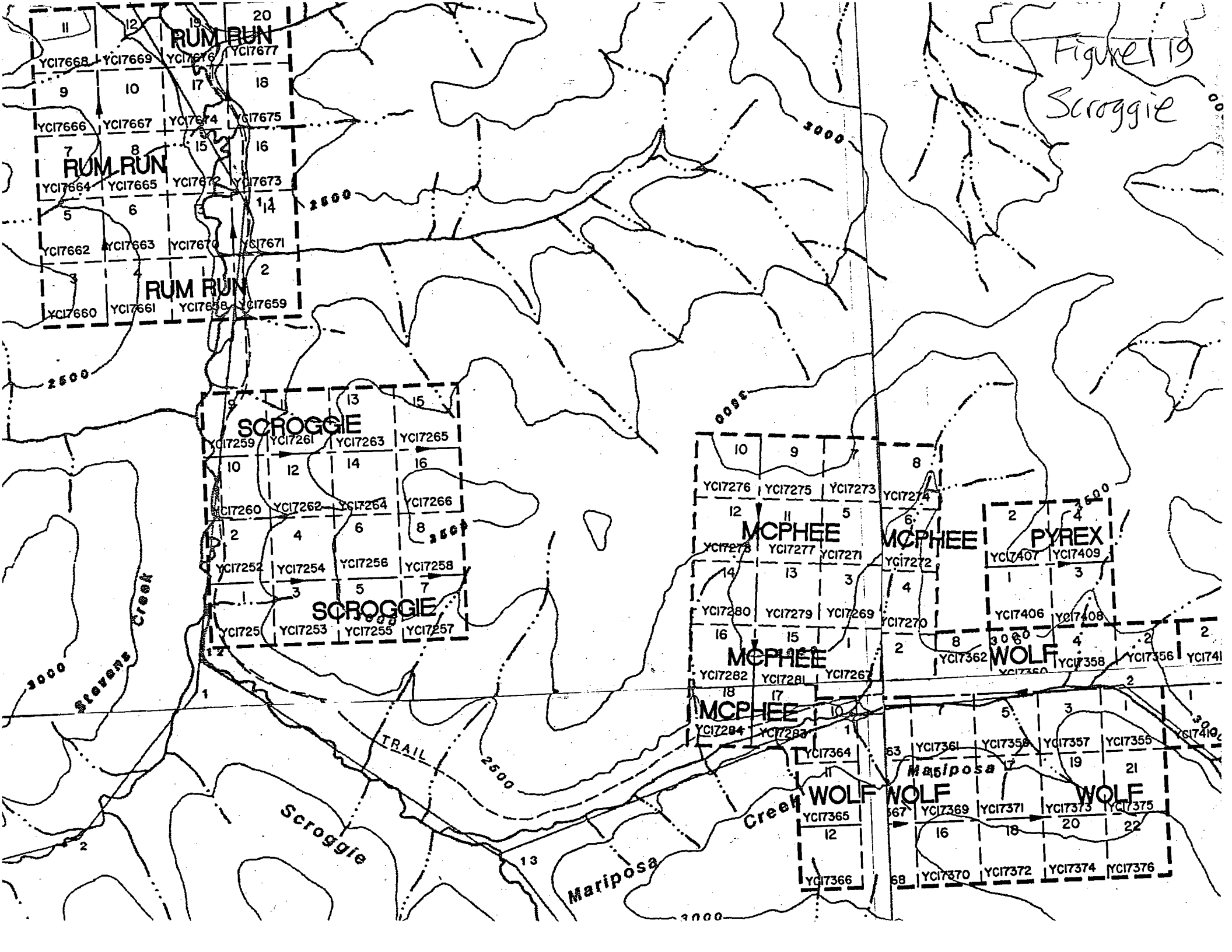


Figure 19
Scroggie



RUM RUN

YCI7668 YCI7669 YCI7670 YCI7671

9 10 17 18

YCI7666 YCI7667 YCI7674 YCI7675

RUM RUN

YCI7664 YCI7665 YCI7672 YCI7673

5 6 11 14

YCI7662 YCI7663 YCI7670 YCI7671

RUM RUN

YCI7660 YCI7661 YCI7668 YCI7669

SCROGGIE

YCI7259 YCI7261 YCI7263 YCI7265

10 12 14 16

YCI7260 YCI7262 YCI7264 YCI7266

2 4 6 8

YCI7252 YCI7254 YCI7256 YCI7258

SCROGGIE

YCI7251 YCI7253 YCI7255 YCI7257

MCPHEE

YCI7276 YCI7275 YCI7273 YCI7274

12 5 6

YCI7278 YCI7277 YCI7271

14 13 3

YCI7280 YCI7279 YCI7269

16 15 1

YCI7282 YCI7281 YCI7267

MCPHEE

YCI7284 YCI7283

18 17 10

YCI7364

YCI7365

12

YCI7366

MCPHEE

YCI7272

4

YCI7270

2

YCI7362

8

YCI7361 YCI7359 YCI7357 YCI7355

63 7

YCI7369 YCI7371 YCI7373 YCI7375

67 16 18 20 22

YCI7370 YCI7372 YCI7374 YCI7376

68

PYREX

YCI7407 YCI7409

2 3

YCI7406 YCI7408

3060 4

YCI7362 WOLF YCI7358 YCI7356 YCI7410

2

YCI7361 YCI7359 YCI7357 YCI7355

63 19 21

YCI7369 YCI7371 YCI7373 YCI7375

67 16 18 20 22

YCI7370 YCI7372 YCI7374 YCI7376

68

Scroggie

Mariposa

Creek

Mariposa

WOLF

WOLF

WOLF

TRAIL

Stevens Creek

3000

2500

3000

3000

2500

13

3000

3000

