

PROSPECTING & GEOCHEMICAL REPORT
YMIP 00-085(a): Nadaleen River Area

Tanner Claims 1-8 (YC02343-YC02350)
NTS 106 C/03
Latitude: 64°03'N
Longitude: 133°16'W
Mayo Mining District, Yukon

Report of work performed in
August 2000
by Anne Bordeleau

Claims owned by Anne Bordeleau
Whitehorse, YT

January 20 2001

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Summary

The area of interest in the vicinity of Mt. Ferrell, YT, and including the newly staked Tanner property, was investigated for Ag/Pb/Zn following the identification of a highly gossanous first-order stream draining northward into the Nadaleen River and supported by encouraging anomalous returns for the area during a regional geochemical stream sediment survey (GSC, 1991).

The Tanner claims were staked after the identification of several E-W trending barite showings from the headwaters of the stream to a second equally gossanous one 2km E. Intensive rock and soil sampling of the area, including a 35-sample soil grid established on claims 1 and 2, was carried out to help define these anomalies. Altogether, 72 samples were collected.

High Ba concentrations were discovered on 3 separate killzones and gossans. Gossanous areas also returned elevated As, Mn, V and Fe values. Zn values were anomalous in the 95th to 98th percentile in the creek flowing downstream from the easternmost killzone and gossan. While no surface Zn showing or other sulphide mineralizations were identified to support the presence of gossanous zones, a deep underlying mineralized layer in the favourable Earn Group could perhaps be defined with a proposed EM/mag survey.

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Introduction

This report was prepared in partial requirement of the Yukon Mining Incentive Program grant #00-085 agreement.

Exploration work consisted of prospecting and geochemical sampling in the Nadaleen River area (NTS 106C/ 03) in the hope of discovering Ag/Pb/Zn mineralization for which the region is known and of explaining the presence of extensive gossans in the area.

Location and Access

The area of interest (Appendix I), including the Tanner claims, is located in the Nadaleen Range, Southern Wernecke Mountains, 110km NE of Mayo, YT. Mt. Ferrell is situated 4km N of the actual claims. The claims are found on NTS map sheet 106 C/03, in the Mayo Mining District and centered at Longitude 133°16' W and 64°03' N.

The site may be accessed by helicopter or by fixed wing to the Rackla Airstrip from which a 16km hike to the area is possible

Physiography and Vegetation

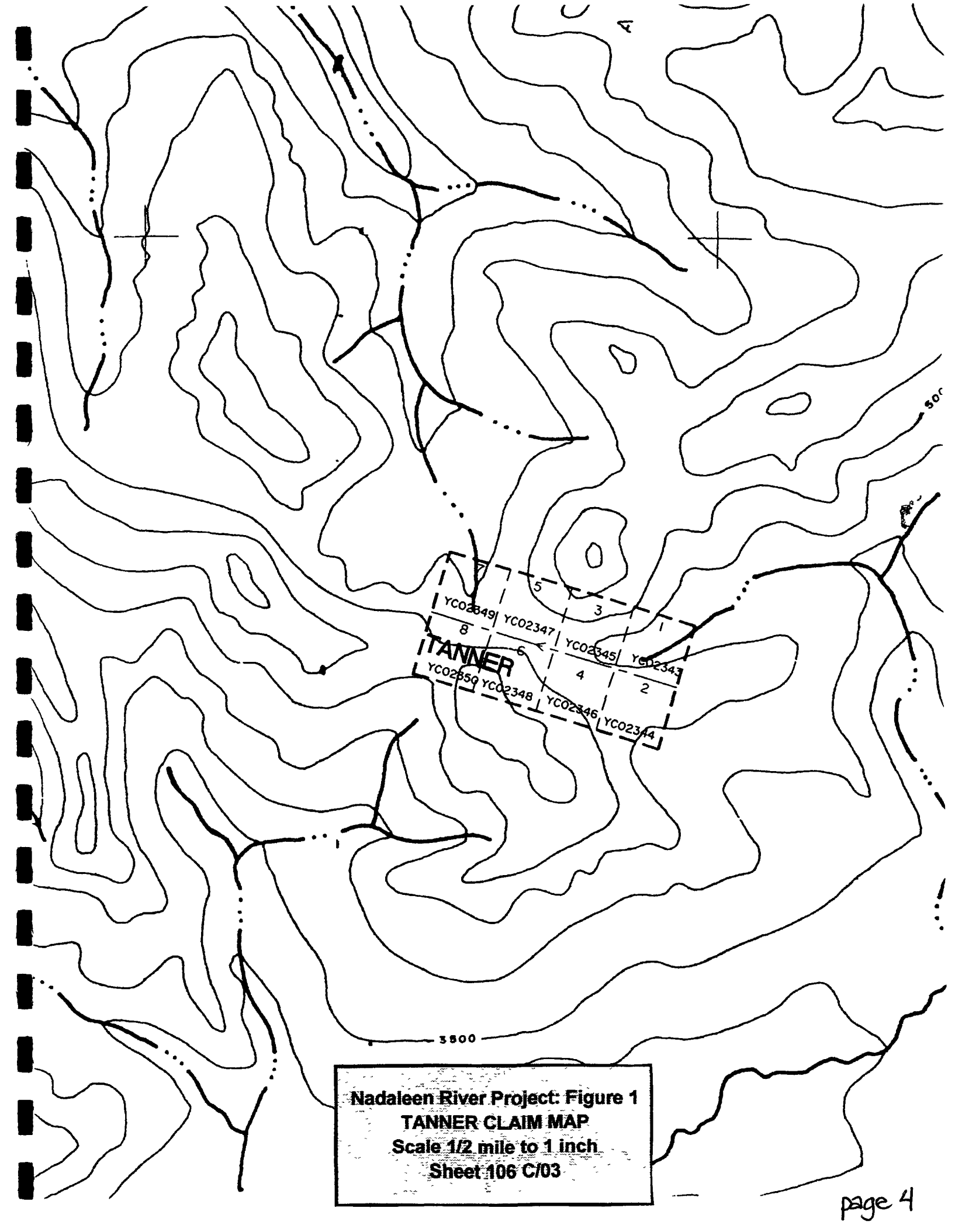
The topography of the Nadaleen River area is characterized by valleys at approximately 3000ft and summits reaching 4500ft to 6000ft. The tree-line generally occurs at 4500ft. Steep hillsides are subject to frequent avalanches. Although frost and snowfalls can occur any day of the year, summers are generally hot and dry, with temperatures in the mid-20°C in July. The atypically cool and wet summer of 2000 left deep snow accumulations on N and W facing slopes and at the bottom of avalanche sites. The exploration season is usually limited to July and August, both because of elevation, which precipitates snow accumulation and retards the melt, and because of the obvious danger of avalanches.

The area immediate to the Tanner claims is representative of the alpine tundra with resin and dwarf birch (*Betula* sps.) as well as dwarf willows (*Salix* sps.). Fir (*Abies lasiocarpa*) is common in subalpine areas down to approximately 3700ft where it is replaced entirely by spruce (*Picea glauca*).

Creeks and wet areas sites are lined by willow (*Salix* sps.), alder (*Alnus* sps.) and resin birch (*Betula glandulosa*) thickets.

Property

The Tanner claims (Fig. 1), are located in NTS 106 C/03, Mayo Mining District, centered at 133°16'W and 64°03'N. The following claims (Table 1) have been recorded in the name of Anne Bordeleau:



Nadaleen River Project: Figure 1
TANNER CLAIM MAP
Scale 1/2 mile to 1 inch
Sheet 106 C/03

Table 1 Claim Status

Claim Name	Record No.	# of Claims	Claim Sheet	Expiry Date
Tanner 1-8	YC02343- YC02350	8	106 C/03	10/08/2001

History

The area underlying the Tanner claims had not previously been staked

However, 10 Tell claims (YB18115) were staked in 1991 by Kennecott Canada Inc. to cover a ferricrete gossan and killzone beside the Stewart River, at 133°09'W and 64°00'N, 6km South of the Tanner group

And, 7km to the North, at 64°09'22"N and 133°21'15"W, 624 Craig claims were staked by McIntyre Mining Ltd in 1976 to cover a Mississippi-Valley Type deposit. In the same year, McIntyre entered in joint venture with Can Superior. In 1982 part of the Craig was transferred to SEREM, then to Cheni Gold Mines Ltd. And then to SEREM Quebec in 1989. Manson Creek Resources optioned to earn 60% interest in the property from Falconbridge in 1998 and staked an additional 159 NAD claims (YB98288).

Geology

I Regional

Structures in the Nadaleen Range are dominated and subparallel with the Dawson Thrust where, according to Carlson (1992), paleozoic strata are thrust over the Precambrian to early Cambrian "Grit Unit", also known as the Hyland Group, and the Precambrian is in turn thrust over Paleozoic shelf assemblage

Underlain by the Selwyn Basin tectono-stratigraphic province, the region's basement is constructed of Hyland Group green, maroon and buff siltstones, conglomerate, sandstone quartzite and limestone. Younger rocks belong to the 530-390 million year old Ordovician to Silurian Road River shale, conglomerate, limestone and the 390-325 million year old Devonian to mid-Mississippian Earn Group shale and conglomerate (Geoprocess File, 1995), which is widespread throughout the basin

Carne and Cathro indicated in 1982 that two ages of sediment hosted or SEDEX Pb/Zn/Ag deposits were known to occur within the basin

II Local

Intense foliation occurs within the area of interest, making identification of the original bedding difficult

The southernmost portion of the property is characterized by exposed Earn Group grey-weathering chert pebble conglomerate, (See Appendix I, Geology Map) probably derived from submarine fan complexes. The northernmost area consists of coarse sandstones and argillaceous limestones. More centrally, along an EW axis, are Earn Group gun-blue weathering siliceous shales, with lesser maroon and green weathering shales likely of the Hyland Group.

Carlson (1992) noted that baritic Pb/Zn/Ag sulphide deposits appeared to be restricted to Earn Group siliceous shale facies and Lower Earn Group turbiditic fan complexes in the Selwyn Basin. Three barite showings were located along a 1.5km EW margin of precisely these formations on the property.

Prospecting and Geochemical Survey Results & Discussion

Three new barite occurrences were discovered with Ba ranging from 29.67% to 56.75%. All anomalous samples originated from readily identifiable NW trending killzones over a distance of 1.5km.

Killzone 1, to the East (See Appendix I for photos of all zones) is a 25X75m ferricrete with an adjacent slow-seeping gossanous baritic limestone, partially zinc-moss covered. High Ba-bearing rocks, R-11 (29.67%), R-15 (39.48%), R-22(38.66%) and R-26 (36.75%), were found both on the W slopes of the ferricrete and at the source of the gossanous seep. Of particular interest was sample R-26 which boasted the only Hg anomaly of the program (1942ppm) and contained minor visible cinnabar.

Stream sediment samples downstream from the gossan ran in the 95th to 98th percentile compared to a 2103-sample GSC geochemical survey program (1991).

Killzone 2 was host not only to baritic limestone but to bedded barite potentially belonging to the Earn Group. This 30m long killzone was immediately overlaid by a 295° striking fault-like ledge, 5m wide. Three soil samples obtained at depths of 1 to 4 feet failed to produce any significant Ba results, while rocks R-03 (53.65%), R-04 (44.79%), R-23 (56.75%) from the killzone itself were anomalous.

Finally, the smaller, 8X10m Killzone 3, to the West, also produced high Ba returns with R-10 (40.12%) and R-19 (39.43%).

A 35-sample soil grid at 25m spacing over a 200X250m area encompassing Killzone 1 returned elevated Ba, Fe, Mn, As and V values, but only moderate Zn values (103 to 514ppm over the ferricrete and gossan).

A narrow, 200m long stream covered with snow-white precipitate returned Cu values in the 95th percentile for the area (110ppm) and 11% Al. High aluminum content here and in other gossans could be related to clays from intrusive-related alterations or from weathering (R. Hulstein, 2001, personal communication).

Conclusion and Recommendations

While no sulphide mineralization was discovered on the Tanner property or the outlying project area, the presence at depth of such a mineralized zone should not be excluded.

Possible mineralization could be identified and delineated by an EM/mag survey. Water sampling could be implemented on gossanous streams to verify whether pH and alkalinity affect possible underlying mineral dissolution.

The discovery of 3 apparently related, new SEDEX barite showings in the Selwyn Basin is interesting though not entirely unexpected. While not being of immediate priority due to its remote location, further defining the showings and locating actual sulphide mineralization would certainly increase the value of the property.

References

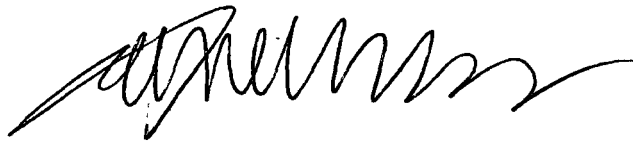
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- Carne, R.C. and Cathro, R.J., 1982. Sedimentary exhalative (Sedex zinc-lead-silver deposits, northern Canadian Cordillera; CIM Bulletin, Vol. 75, No. 840, pp. 66-78.
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- Indian and Northern Affairs, 1997. Yukon Minfile 106-C Nadaleen, Exploration and Geological Services, Yukon, Indian and Northern Affairs Canada
- Yukon Chamber of Mines, 1996. Yukon MINEX CD-ROM.

Statement of Qualifications

I, Anne Bordeleau, hereby certify that:

1. I am a prospector and geological assistant and have earned my living as such since 1994, for myself and various exploration companies in the Northwest Territories, Nunavut, Alberta and the Yukon.
2. I have completed the Advanced Prospecting Course at the Yukon Chamber of Mines in 1998.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Anne Bordeleau', with a long horizontal flourish extending to the right.

Anne Bordeleau

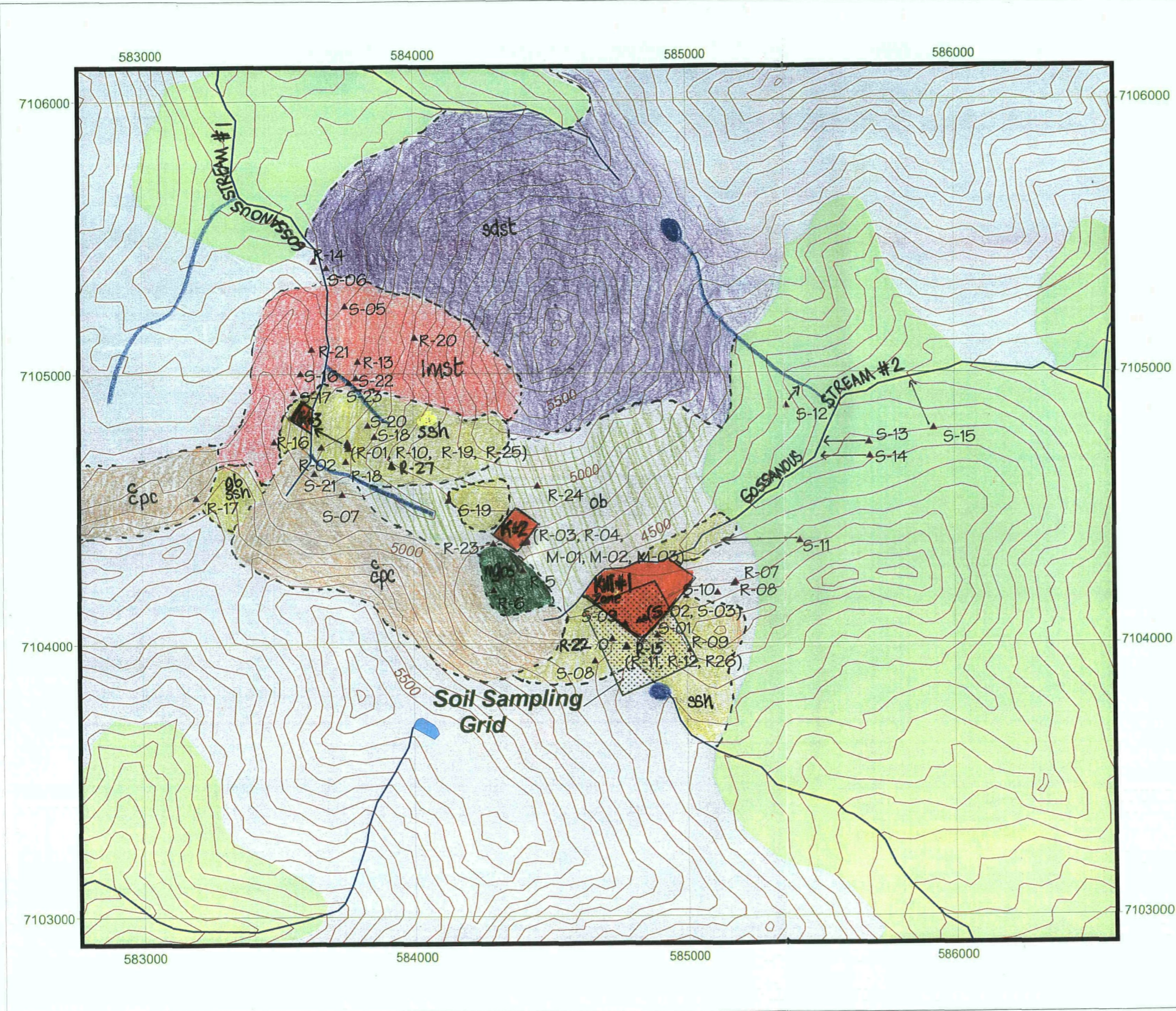
January 20 2001.

Statement of Costs

Analytical Services (NAL)	\$ 1081.24
Helicopter Travel (TransNorth Helicopter)	\$ 2264.12
Labour (Field Assistant: Ron Berdahl), 7 days @ \$150.00	\$ 1050.00
Radio Rentals (Aurum Geological Consultants Inc.)	\$ 160.50
Daily Living Expenses, 28 persondays @ \$35.00	\$ 980.00
Travel Whitehorse-Mayo-Whitehorse, 900km @ \$0.42	\$ 378.00

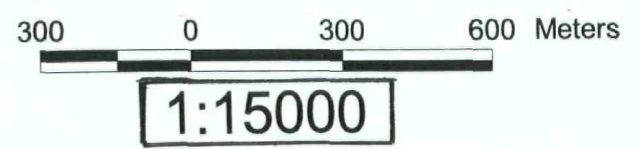
Total	\$ 5913.86
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APPENDIX I
Geology and Sample Location Map
Soil Sampling Grid
Project Photographs

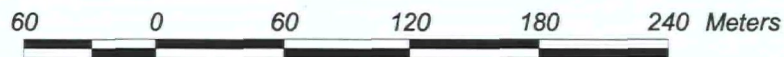
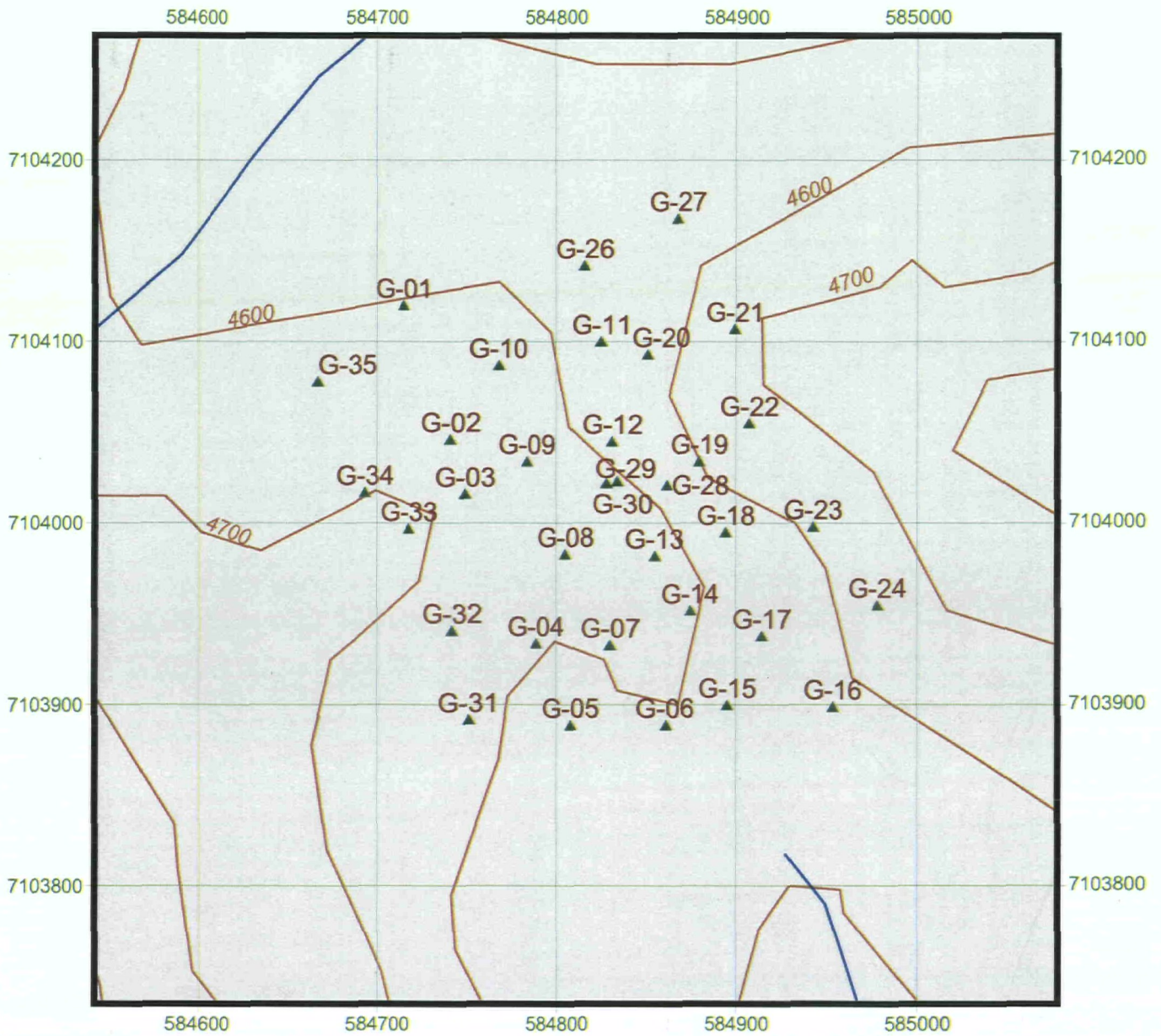


**YMIP#00-085A
Nadaleen River Area
Geology & Sample Location**

	mgbs	maroon, green, buff shale
	ssh	gun-blue siliceous shale
	ccpc	chert; chert pebble conglomerate
	lmst	limestone
	sdst	sandstone
	ob	overburden



YMIP-00-085a: Soil Sampling Grid



1:3500

YMIP00-085a: Nadaleen River Area
Project Photographs



Photo 1: Killzone 1, location of samples R-11 & R-26 (26.67% & 36.75% Ba)



Photo 2: Killzone 2, location of samples R-03, R-04 & R-23 (53.65%, 44.79% & 56.75% Ba)



Photo 3: Killzone 3, location of samples R-10 & R-19 (40.12% & 39.93%)

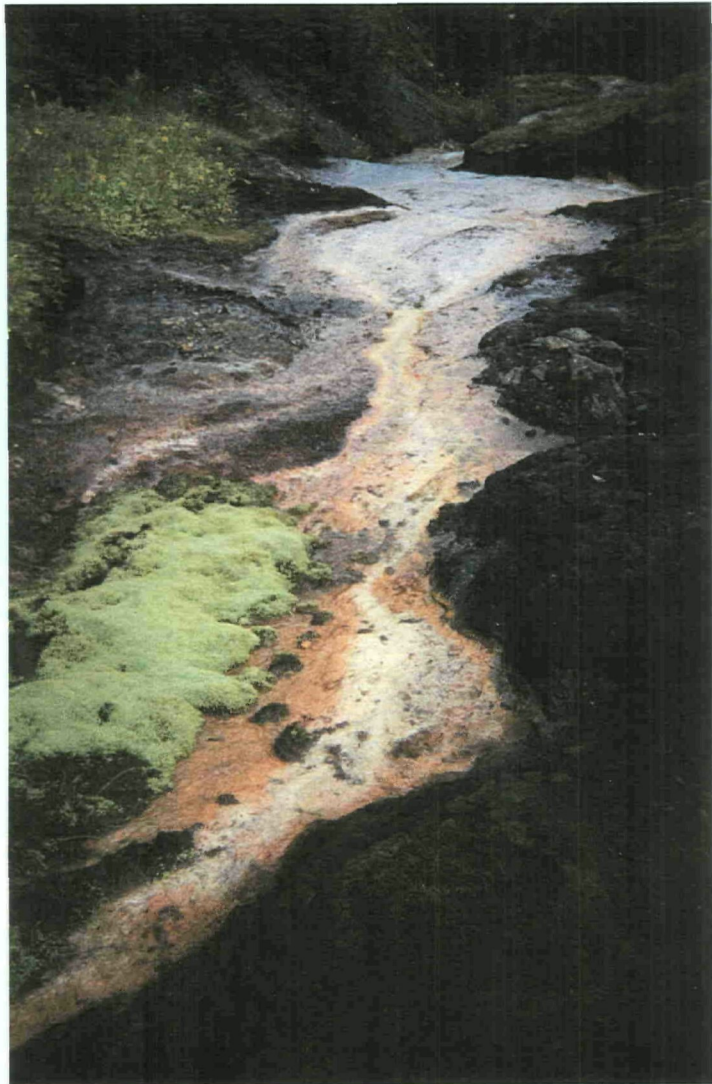


Photo 4: Stream #1 with Zn-moss



Photo 5: Gossan at Killzone 1

**YMIP00-085a: Nadaleen River Area
Project Photographs**

APPENDIX II
Sample Description
2000 Assay Results

Sample Description

1 of 3

SAMPLE	TYPE	DESCRIPTION	UTM
R-01	rock	sulph. smelling, brittle float, vuggy qtzte	583751E 7104740N
R-02	rock	sulph. smelling, qtzte float w/ altered infills	583658E 7104729N
R-03	rock	barite, gr-wh, zebra pattern, outcrop	584411E 7104377N
R-04	rock	barite, w/ vuggy qtzte, float	584396N 7104374N
R-05	rock	float sil. shale w/ slight sulfur smell, float	584400E 7104350N
R-06	rock	black chert, very silicified, float	584286E 7104198N
R-07	rock	qtzte w/ blue shale & poss. sphal., br, NW str, dip 75, outcr.	585180E 7104230N
R-08	rock	limonitic qtz in blue shale, float	585175E 7104224N
R-09	rock	porpheric qtzte w/ 5-10% py	585011E 7103978N
R-10	rock	ba float	583751E 7104748N
R-11	rock	heavy dolomitic grey/white outcrop over carb. shale	584784E 7103993N
R-12	rock	bleached carb. shale	584780E 7103989N
R-13	rock	qtzte w/ altered vugs, red	583791E 7105047N
R-14	rock	bedded sopy shale, phyllite? br w/ red staining	583632E 7105416N
R-15	rock	carb. shale w/ ba, heavy	584784E 7103993N
R-16	rock	sil. dol. w/ red staining	583485E 7104750N
R-17	rock	cherty outcrop w/ small sulphide veinlets	583204E 7104544N
R-18	rock	yellow spew fom carb. shale	583747E 7104677N
R-19	rock	dk-gr ba float	583757E 7104735N
R-20	rock	calc-like veining on dlmt, heavy, br, 10X3m outcrop	584005E 7105134N
R-21	rock	Qtzte vein w/ gal? in sil. sdst w/ red staining	583684E 7105091N
R-22	rock	ba @ stream 5m above, float	584731E 7104020N
R-23	rock	ba-cobble on 15X10m scree w/ 3%ba, 2% sdst, shale 95 %	584288E 7104373N
R-24	rock	sdst w/ red staining	584453E 7104585N
R-25	rock	carb. shale some red stained	583757E 7104725N
R-26	rock	qtzte flost w/ sulph smell, minor visible Gal & red (hg??)	584782E 7103988N
R-27	rock	carb. shale from E mountain ridge	583900E 7104700N
S-01	soil	soft gossan, org. encrusted, yel/wh/red, surface	584891E 7104033N
S-02	soil	red gossan, 16" depth	584848E 7104099N
S-03	soil	mixture of org., blue shaly sed., red gossan	584831E 7104090N
S-04	soil	at 12" depth from scree top, rusty soil, lots shle fragment	584831E 7104090N
S-05	moss mat	z-moss roots, very red	583744E 7105252N
S-06	soil	red soil on stream's edge	583678E 7105392N
S-07	soil	pulverised carb. shale with grey/red tint	583732E 7104555N
S-08	str. sed.	maroon, mostly maroon shale debris	584663E 7103938N
S-09	str. sed.	red, fine org. in sil. shale fines	584777E 7104075N
S-10	str. sed.	gr-br, schist/shale debris	585115E 7104191N
S-11	str. sed.	gr-br, schist/shale debris	585426E 7104382N
S-12	str. sed.	gr, silt/sand	585375E 7104879N
S-13	str. sed.	br, shale debris, silt	585680E 7104743N

Sample Description

2 of 3

SAMPLE	TYPE	DESCRIPTION	UTM
S-14	str. sed.	gr-br, shale debris, silt, sand	585685E 7104691N
S-15	str. sed.	gr, fine shale, sand, silt	585920E 7104794N
S-16	soil	accreted red/ora. dirt @ 12" depth, 15m from shl. scree	583585E 7105001N
S-17	str. sed.	red/or. soil @ 25cm	583560E 7104931N
S-18	soil	dry, white ppt, @ 24" depth	583854E 7104768N
S-19	soil	bleached soil @ 10cm, in red dirt overlaid by carb. shale	584122E 7104532N
S-20	ppt	dry, white ppt on strams edge, powdery, looks like h2o/zn	583828E 7104810N
S-21	str. sed.	mixture maroon shale/sdst/qtzte in streambed	583633E 7104632N
S-22	str. sed.	sed. from surface of orange/white ppt. on stream bottom	583786E 7104986N
S-23	soil	soil from white ppt on carb. shale slope 2x2m, on str. edge	583759E 7104969N
M-01	soil	ochre silt @12", top of killzone 2	584413E 7104386N
M-02	soil	greyish-yellow clay/silt @48" depth, slight sulph. smell	584411E 7104380N
M-03	soil	same as above, 1m E @ 54" depth	584409E 7104382N
G-01	soil	br, w/ shale layer @ 20" depth, silt	584714E 7104119N
G-02	soil	v.dk.br @24", 10% org, 90% silt	584740E 7104045N
G-03	soil	chl. shale pebs throughout, removed, @ 24"	584748E 7104015N
G-04	soil	maroon coloured, 20" depth, silt	584787E 7103933N
G-05	soil	br, w/ shale layer @ 20" depth, silt	584807E 7103888N
G-06	soil	gr-br, 35" depth., heavy soliflx., silty	584859E 7103888N
G-07	soil	br, @40", laced w/ shale	584829E 7103932N
G-08	soil	lt. br., @ 15", on ba hill, near hg sample	584804E 7103982N
G-09	soil	reddish-br silt @ 25"	584782E 7104033N
G-10	soil	br, @ 20", silt	584766E 7104086N
G-11	soil	red, @ 15", 5m from chlor. shale outcrop	584824E 7104099N
G-12	soil	red-br, @ 8", w/ qtzte & chl. shale pebs	584830E 7104044N
G-13	soil	between 2 ba showings, @ 20", br	584853E 7103981N
G-14	soil	br w/ sparse orange, crumbled ferricrete, @10"	584873E 7103951N
G-15	soil	br w/ orange banding, @ 20"	584894E 7103899N
G-16	lake sed	silt w/ carb shale pebs, @ 10"	584952E 7103898N
G-17	soil	grey silt w/ carb.shale pebs, @ 8"	584913E 7103937N
G-18	soil	from tallus of mudboils, 30% silt @ 15%	584893E 7103994N
G-19	soil	ferricrete @ strm, red/blk, @ 10"	584878E 7104033N
G-20	soil	ferricrete @ strm, red, @ 10", w/ accr. ferric pebs remov.	584849E 7104092N
G-21	soil	red br., 20" deep, 10m from gossan, w/ znmoos at surface	584898E 7104106N
G-22	soil	gr br soil @ 24", qtzte pebs in sample	584906E 7104054N
G-23	soil	br gr, sdst floats around, @ 10", sm. sil. pebs thr.out	584941E 7103997N
G-24	soil	gr, @ 25" 5m from carb. shale hill	584977E 7103954N
G-25	soil	dk gr, silt w/ carb. shale pebs throughout	585009E 7106907N
G-26	soil	br w/ chl shale pebs, @ 12", org @ surface	584815E 7104141N

Sample Description

3 of 3

SAMPLE	TYPE	DESCRIPTION	UTM
G-27	soil	red br., 20" deep, forested area	584366E 7104167N
G-28	soil	red/orange from under moss mats @ ferricrete	584860E 7104020N
G-29	soil	dk br, carb. shale pebs throughout	584833E 7104022N
G-30	soil	br, some shale pebs, @ 10"	584827E 7104021N
G-31	soil	small mudboil, br silt @ 25", w/ chl. pebs thr.out	584750E 7103891N
G-32	soil	wet ground, br gr @ 28", few pebs,	584741E 7103940N
G-33	soil	gr br soil @ 14", w/ overgrown mudboils, w/ shale t.o.	584717E 7103996N
G-34	soil	br, 24" depth, sml. pebs qtzte, shale & sdst	584692E 7104016N
G-35	soil	br silt w/ shale or phyllite pebs @ 20"	584666E 7104077N



CERTIFICATE OF ANALYSIS

iPL 00I1166

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 Fax (604) 879-7898
 [116611:54:39:00092500]

Northern Analytical Laboratories

78 Samples Out: Sep 25, 2000 In: Sep 11, 2000

Project : W.O. 00131
 Shipper : Norm Smith
 Shipment: PO#: 176746
 Analysis:
 ICP(AqR)30

Comment:

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1 Northern Analytical Laboratories	EN	RT	CC	IN	FX
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Canada					
Att: Norm Smith	Ph: 867/668-4968				
	Fx: 867/668-4890				
	Em: NAL@hypertech.yk.ca				

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	78	Pulp	Pulp received as it is, no sample prep.	12M/D1s	00M/D1s

NS=No Sample Rep=Replicate M=Month D1s=D1sCard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0721	ICP	ppm	Ag ICP	Silver	0.1	99.9
02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals 1=Copy 1=Invoice 0=3 1/2 Disk
 DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

* Our liability is limited solely to the analytical cost of these analyses.

This certificate is valid only if signed by the analyst.

CERTIFICATE OF ANALYSIS

iPL 00I1166

2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: W.O. 00131

78 Samples
78=PuIp

[116611:54:39:00092500]

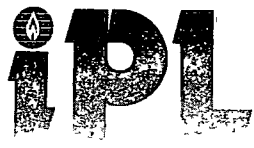
Out: Sep 25, 2000
In : Sep 11, 2000

Page 2 of 2
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
S - 02	P 1.0	33	19	353	7352	<	<	77	<	<	<	12	<	38	<	84	4299	67	<	3	9	3	<	6.90	0.01	19%	0.01	0.01	0.01	0.19	
S - 03	P 2.4	45	44	263	1196	<	6	71	<	<	1.4	7	21	386	<	164	1162	80	8	21	8	5	0.03	2.15	0.03	13%	0.15	0.04	0.01	0.23	
S - 04	P 0.4	67	32	149	255	<	<	31	<	<	1.5	10	27	1471	<	22	101	468	5	9	1	3	0.01	0.65	0.02	4.83	0.10	0.03	0.01	0.05	
S - 05	P 1.3	46	34	87	234	<	<	14	<	<	<	11	2	32	<	156	1037	64	<	16	8	2	<	1.06	0.01	20%	0.06	0.04	0.01	0.53	
S - 06	P 0.7	53	32	271	401	<	<	9	<	<	7.0	18	52	81	<	104	1501	142	<	28	10	<	<	1.38	0.32	22%	0.06	0.02	0.01	0.60	
S - 07	P 2.5	37	66	68	98	8	<	36	<	<	1.1	8	16	744	<	23	110	287	11	78	1	2	0.01	0.67	0.02	4	16	0.11	0.07	0.02	0.11
S - 08	P 0.2	70	22	136	<	<	<	5	<	<	1.6	21	42	265	<	27	41	1097	7	46	1	3	<	0.86	0.29	4.09	0.31	0.07	0.02	0.08	
S - 09	P 0.3	35	26	146	19	<	<	10	<	<	2.1	17	18	51	<	8	44	463	<	10	9	1	<	1.07	0.04	21%	0.07	0.04	0.01	0.10	
S - 10	P <	74	26	622	279	<	<	8	<	<	2.6	45	92	517	<	23	143	1567	7	41	4	3	0.01	2.18	0.26	8.12	0.25	0.07	0.01	0.15	
S - 11	P 0.2	73	23	1116	151	<	<	6	<	<	3.5	59	140	688	<	21	86	1600	8	49	5	3	0.01	3.05	0.46	7.19	0.28	0.06	0.01	0.15	
S - 12	P 0.3	28	46	57	<	<	<	1	<	<	0.8	13	29	140	<	9	15	458	13	24	2	2	<	0.51	0.63	2.59	0.14	0.07	0.01	0.07	
S - 13	P 0.3	34	55	73	<	<	<	1	<	<	1.0	14	30	189	<	11	14	601	9	33	3	2	<	0.69	0.67	2.80	0.28	0.06	0.01	0.07	
S - 14	P 0.2	62	24	754	87	<	<	5	<	<	3.0	43	117	612	<	20	68	1393	8	39	4	3	0.01	1.90	0.43	5.59	0.32	0.05	0.01	0.11	
S - 15	P 0.2	56	25	835	58	<	<	3	<	<	3.7	44	131	650	<	19	56	1085	8	46	4	3	<	1.81	0.61	4.84	0.35	0.06	0.01	0.10	
S - 16	P <	12	41	20	5	<	7	1	<	<	0.9	9	17	330	<	185	5	575	6	4	1	1	<	0.28	0.04	2.49	0.02	0.04	0.01	0.02	
S - 17	P 0.1	20	129	58	<	<	<	4	<	<	1.0	7	15	166	<	23	59	257	8	10	1	1	0.01	1.39	0.03	3.44	0.19	0.04	0.01	0.03	
S - 18	P 1.9	72	120	281	22	<	<	10	<	<	4.4	15	85	152	<	18	60	653	6	33	3	3	0.01	2.70	0.09	3.82	0.14	0.06	0.02	0.09	
S - 19	P 0.6	60	23	239	399	<	<	48	<	<	1.3	8	54	862	<	24	173	87	7	20	6	5	0.01	0.56	<	4.69	0.02	0.03	0.01	0.06	
S - 20	P 1.5	110	16	134	<	<	<	5	<	<	3.1	11	28	13	<	12	27	450	5	12	9	3	<	11%	0.02	1.66	0.08	0.07	0.02	0.05	
S - 21	P 0.4	40	25	77	<	<	<	5	<	<	1.0	7	23	564	<	23	35	390	7	21	1	2	<	0.99	0.20	2.59	0.22	0.07	0.01	0.08	
S - 22	P 0.1	46	30	113	17	<	<	3	<	<	1.5	18	42	198	<	19	75	510	6	9	3	2	<	0.69	0.03	4.78	0.22	0.03	0.01	0.07	
R - 01	P <	19	21	56	705	<	<	7	<	<	<	7	9	22	<	98	1076	17	<	90	4	<	0.01	0.24	0.01	15%	0.01	1.31	0.01	0.48	
R - 02	P <	13	10	46	10	<	<	1	<	<	0.5	7	11	427	<	183	18	701	<	5	<	1	<	0.16	<	1.05	0.05	0.03	0.01	0.01	
R - 05	P <	5	12	9	<	<	<	1	<	<	0.5	1	4	1203	<	149	4	111	<	30	3	1	<	0.07	2.83	0.51	1.09	0.04	0.01	0.01	
R - 06	P <	11	14	21	<	<	<	1	<	<	0.7	5	10	1631	<	201	3	246	3	7	3	1	<	0.07	0.14	1.35	0.06	0.03	0.01	0.01	
R - 07	P <	21	5	38	<	<	<	2	<	<	0.5	5	12	502	<	345	6	1008	<	3	1	1	<	0.43	0.02	1.52	0.17	0.02	0.02	0.01	
R - 08	P <	37	25	134	<	<	<	3	<	<	2.3	16	36	1537	<	108	23	6080	2	9	4	7	<	2.46	0.71	5.65	0.99	0.02	0.01	0.01	
R - 09	P <	37	32	29	<	<	<	2	<	<	0.9	10	26	12	<	129	7	201	<	7	6	2	<	0.30	0.04	5.29	0.05	0.07	0.01	0.02	
R - 12	P 0.1	5	6	2	6	<	<	3	<	<	0.1	1	1	1258	<	21	42	13	<	35	4	<	<	0.16	<	0.08	<	0.03	0.01	<	
R - 13	P <	12	8	58	<	<	<	2	<	<	0.9	4	14	1244	<	139	4	988	3	50	2	1	<	0.09	3.01	2.49	0.12	0.04	0.01	0.01	
R - 14	P <	15	14	21	<	<	<	1	<	<	0.6	7	19	1496	<	97	6	396	3	40	3	3	<	0.16	2.42	1.84	0.70	0.08	0.01	0.02	
R - 16	P <	3	5	28	<	<	<	3	<	<	0.1	4	14	1544	<	57	9	835	2	70	4	2	<	0.08	12%	3.59	1.84	0.02	0.01	<	
R - 17	P <	16	2	16	<	<	<	1	<	2	0.4	4	13	1510	<	82	10	484	2	5	1	1	<	0.35	0.11	0.59	0.31	0.02	0.01	0.01	
R - 18	P 3.0	4	13	12	463	7	<	38	<	<	<	2	12	67	<	218	241	24	11	163	4	14	<	0.90	0.10	6.51	0.06	0.20	0.01	2.95	
R - 20	P <	1	<	2	<	<	<	4	<	<	<	1	1	1616	<	11	3	757	<	70	6	<	<	0.04	38%	0.61	0.10	0.01	0.01	0.02	
R - 21	P <	5	10	43	<	<	<	1	<	<	0.3	2	6	1224	<	142	2	274	<	8	2	<	<	0.05	1.05	0.48	0.03	0.02	0.01	0.01	
R - 24	P <	7	9	21	<	<	<	1	<	<	0.6	7	13	1088	<	99	8	596	3	10	7	1	<	0.11	0.14	2.71	0.05	0.06	0.01	<	
R - 25	P 0.5	4	10	3	15	<	<	3	<	<	<	1	2	1887	<	17	74	9	3	8	6	1	<	0.21	0.03	0.14	0.02	0.09	0.01	0.01	
R - 27	P 0.4	2	14	2	6	<	<	9	<	<	0.2	1	1	416	<	20	11	27	5	3	9	<	<	0.18	0.01	0.25	0.02	0.10	0.01	<	

Min Limit	0.1	1	2	1	5	5	3	1	10	2	0.1	1	1	2	5	1	2	1	2	1	1	1	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Max Reported*	99.9	20000	20000	20000	9999	999	9999	999	999	9999	99.9	9999	9999	9999	999	9999	9999	9999	9999	9999	9999	9999	9999	1.00	9.99	9.99	9.99	9.99	9.99	5.00	5.00
Method	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	ICP	

No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck %x1000 %=Estimate % NS=No Sample



INTERNATIONAL PLASMA LABORATORY LTD

Northern Analytical Laboratories

Project : W.O. 00131
Shipper : Norm Smith
Shipment: PO#: 176746
Analysis: ICP(Multi-Acid)30 in ppm

Comment:

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Em:NAL@hypertech.yk.ca

CERTIFICATE OF ANALYSIS
IPL 00I1165

2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
[116515:27:37:00092600]

9 Samples Out: Sep 26, 2000 In: Sep 11, 2000

Table with columns: CODE, AMOUNT, TYPE, PREPARATION DESCRIPTION, PULP, REJECT. Includes an 'Analytical Summary' section with columns: ##, Code, Method, Units, Description, Element, Limit Low, Limit High.

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals 1=Copy 1=Invoice 0=3 1/2 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

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BC Certified Assayer David Chiu

Handwritten signature

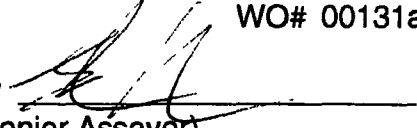
27/11/2000

Certificate of Analysis

of pages (not including this page): 1

Anne Bordeleau

WO# 00131a

Certified by 
 Justin Lemphers (Senior Assayer)

Date Received: 14/11/2000

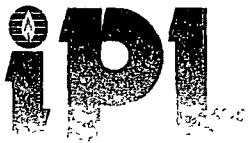
SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
p	9	pulp	No further preparation

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton



INTERNATIONAL PLASMA LABORATORY LTD

Northern Analytical Laboratories

Project : W.O. 00131
Shipper : Norm Smith
Shipment: PO#: 176746

Analysis:
Re Job#0011165
Ba(Fusion)ICP
Comment:

Document Distribution

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	Em:NAL@hypertech.yk.ca

CERTIFICATE OF ANALYSIS

iPL 00K1541



2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipl@direct.ca
[154113:36:30:00112100]

9 Samples Out: Nov 21, 2000 In: Nov 14, 2000

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	9	Pulp	Pulp received as it is, no sample prep.	12M/D1s	00M/D1s

NS=No Sample Rep=Replicate M=Month D1s=Discard

Analytical Summary

##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0104	AsyFus	%	Ba by Fusion/Gravimetric in %	Barium	0.01	100.00

ANNIE BOADELLO

EN=Envelope # RT=Report Style CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals 1=Copy 1=Invoice 0=3 1/2 Disk
DL=Download 3D=3 1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

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...Certificate of Analysis...



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CERTIFICATE OF ANALYSIS

iPL 00K1541



2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipl@direct.ca

Client : Northern Analytical Laboratories
Project: W.O. 00131

9 Samples
9=Pulp

[154113:36.30:00112100]

Out: Nov 21, 2000
In : Nov 14, 2000

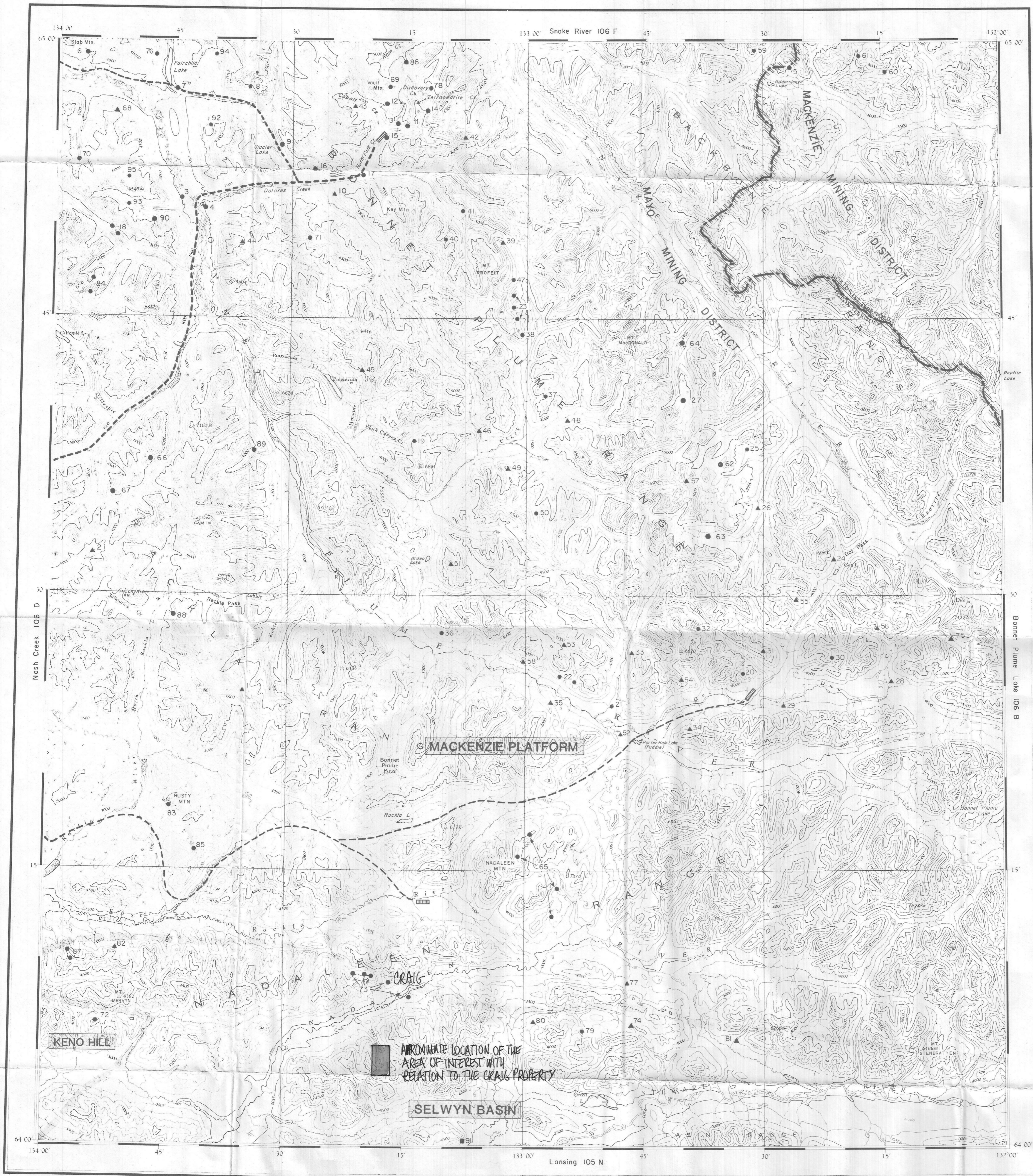
Page 1 of 1
Section 1 of 1

Sample Name	Type	Ba %
R - 03	Pulp	53.65
R - 04	Pulp	44.79
R - 10	Pulp	40.12
R - 11	Pulp	29.67
R - 15	Pulp	39.48
R - 19	Pulp	38.93
R - 22	Pulp	38.66
R - 23	Pulp	56.75
R - 26	Pulp	36.75

YUKON ENERGY, MINES
& RESOURCES LIBRARY
P.O. Box 2703
Whitehorse, Yukon Y1A 2C6

Minimum Detection 0.01
Maximum Detection 100.00
Method AsyFus

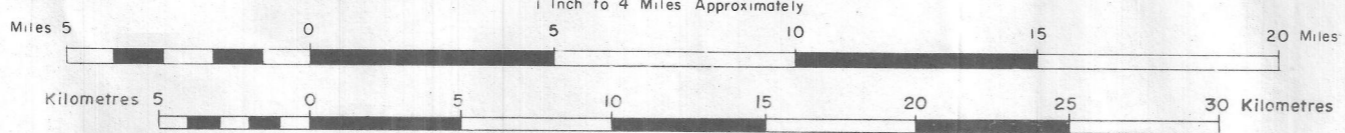
No Test Ins=Insufficient Sample Del=Delay Mes=No Estimate R=Re-check N000=Estimate NS=Not Sample



1. KOHSE (Cu-Un)
2. SALUTATION (Cu-Vein)
3. GILLESPIE (Pb,Zn-Vein)
4. GEORDIE (Pb,Zn-Un)
5. GILDERSLEEVE (Zn-Form)
6. PLUME (U,Cu-Un)
7. FAIRCHILD (Cu, I-Un)
8. BIBBER (Cu-Vein)
9. DOLORES (Au,Cu,Pb,Zn-Vein)
10. KEY MOUNTAIN (Cu-Vein)
11. MAMMOTH (Cu-Vein)
12. CIRQUE (Cu,Co-Vein)
13. PORPHYRY (Cu,Ag-Un)
14. TETRAHEDRITE CREEK (Cu,Au,Ag-Skn)
15. AIRSTRIP (Cu-Vein)
16. MUELLER (Cu-Un)
17. DOBBY (Cu,U-Vein)
18. KIDNEY (Cu-Vein)
19. CORN (Pb,Zn-Form)
20. GOZ (Zn-Form)
21. HARRISON (Zn-Form)
22. CYPRESS (Zn-Form)
23. COB (Zn-Form)
24. ZOG (Zn-Form)
25. GOODMAN (Zn,Pb-Vein)
26. NEST (Zn-Form)
27. TOPOROWSKI (Zn,Pb-Form)
28. ANGL0 (Zn-Form)
29. MONITOR
30. GUS (Zn-Form)
31. SENTRY (Zn-Form)
32. CADET (Zn-Form)
33. CARDIGAN
34. LOG (Zn-Form)
35. KENDAL
36. MOUSE (Pb,Zn-Form)
37. FRIGSTAD (Zn,Pb,Ag-Form)
38. SPECTROAIR (Pb,Zn-Form)
39. PROFIT (Pb,Zn,Ag-Form)
40. POO (Pb,Zn-Vein)
41. CARNE (Zn-Form)
42. DAN (Pb,Zn,Cu-Form)
43. DOWSER (Cu-Vein)
44. LEARY (Zn-Form)
45. RINGULCUA
46. CANWEX (Pb,Zn-Form)
47. COAST (Pb,Zn-Vein)
48. BLEILER
49. ARDEN
50. BOB (Pb,Zn-Form)
51. BRENDON (Zn-Form)
52. PUDDLE
53. OLYMPIAN
54. GAL (Zn,Pb-Form)
55. FRINGE
56. ENV0Y (Pb,Zn-Form)
57. SPIRIT
58. TAPIN (Zn-Un)
59. CAB (Zn-Form)
60. BAK (Zn-Form)
61. MOGUL (Zn-Form)
62. DUNE (Zn-Form)
63. SNAKE (Pb,Zn-Form)
64. TOPPER
65. McKELVIE (Zn,Pb-Form)
66. MARSHALL (Cu-Un)
67. ALGAE (Cu-Vein)
68. LAW
69. PTERO (U-Un)
70. NORANDA (U-Un)
71. PIKA
72. LINDBERG
73. CRAIG (Zn,Pb,Ag-Form)
74. SIAN (Zn-Form)
75. REPTILE (Zn-Form)
76. OTTER (Co,Cu-Vein)
77. JAM (Zn,Pb,Ag-Form)
78. BLUSSON (Cu-Form)
79. HIGHHAWK (Hg-Vein)
80. LEAH (Zn,Pb,Ag-Form)
81. EIRA
82. EDINA (Pb,Zn,Ag-Vein)
83. VERA (Ag,Pb,Zn-Vein)
84. GOODFELLOW (Zn,Cu,Pb-Form)
85. VAL (Ag,Pb-Vein)
86. ANOKI (U-Un)
87. ROD (Pb,Zn,Ag-Vein)
88. SUPERDAVE (Ag,Cu-Vein)
89. CROM (Ag,Cu-Vein)
90. TOW (U-Vein)
91. TELL
92. WHALE
93. ATHENS
94. CAROL
95. OLYMPIC

106 C
NADALEEN RIVER

SCALE 1:250,000



- REFERENCE
- Highway
 - Trail
 - Winter trail
 - Airstrip (length if known)
 - Historic site or recreation area
 - Mining district boundary
 - Territorial boundary
 - Microwave tower

- ACCURACY OF LOCATION
- Within 1/2 mile
 - 1/2 to 2 miles
 - Less than 2 miles

CLASSIFICATION OF DEPOSITS

- Vein
- Skn
- Ppy
- Mag
- Form
- Vol
- CBL
- Un
- Placer occurrences

These classifications are discussed at the beginning of the metals index

YUKON MINFILE

REVISED TO AUGUST, 1992

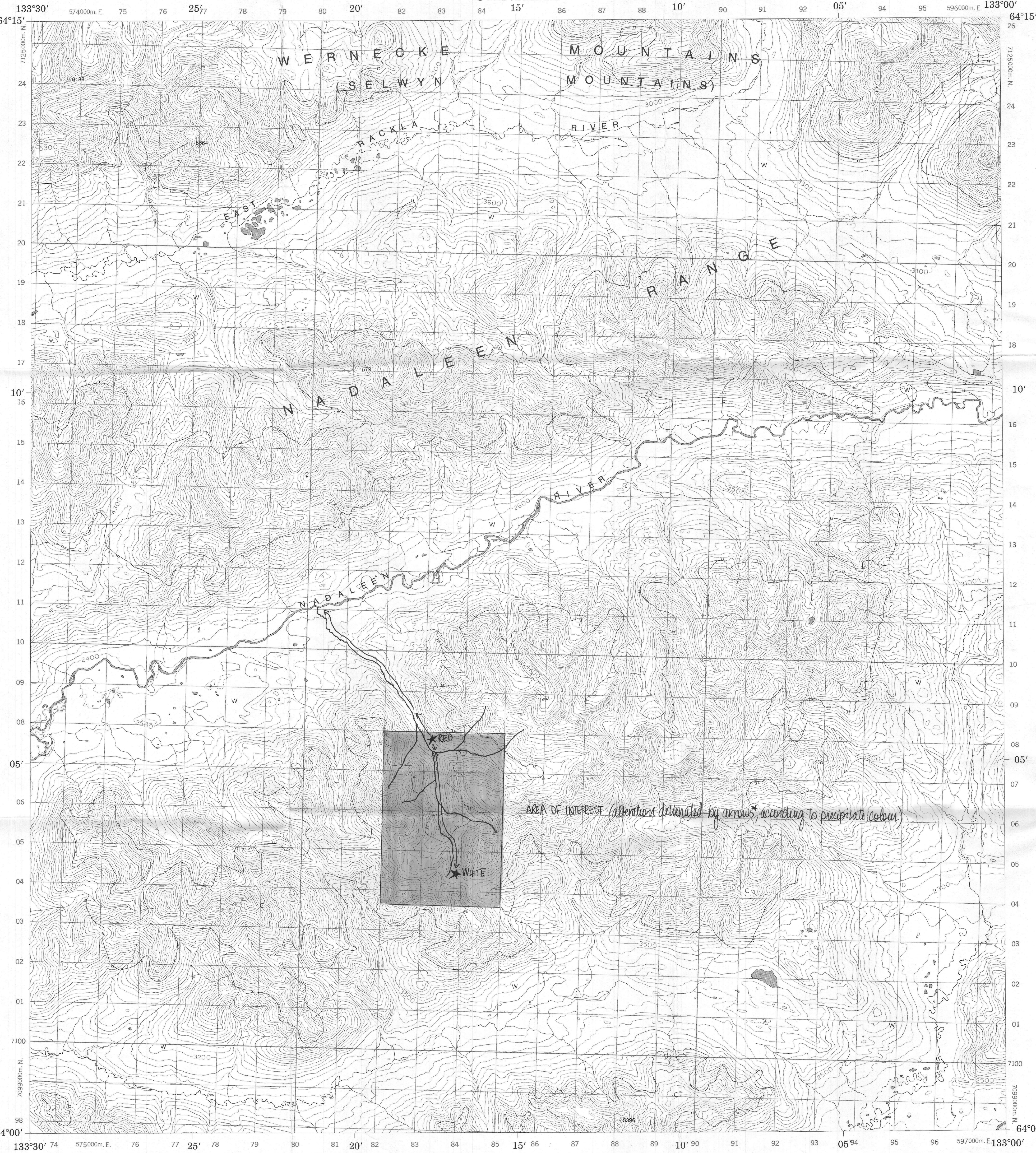
2-20
\$2.00

2000-085
part 1

CANADA

EDITION 1 106 C/3

Military users, refer to this map as: Références de la carte pour usage militaire: SERIES A 722 SÉRIE MAP 106 C/3 CARTE EDITION 1 MCE ÉDITION

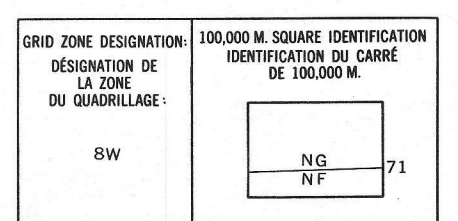


LEGEND - LÉGENDE

ROADS AND RELATED FEATURES	ROUTES ET OUVRAGES CONNEXES
HARD SURFACE, ALL WEATHER	SURFACE DURE, TOUTES SAISONS
LOOSE SURFACE	GRAVIER
CART TRACK, WINTER ROAD OR ROAD UNDER CONSTRUCTION	CHEMIN DE TERRE, D'HIVER OU CHEMIN EN CONSTRUCTION
TRAIL, CUT LINE, PORTAGE	SENTIER, PERCÉE, PORTAGE
BUILT-UP AREA	AGGLOMÉRATION
RAILWAY, SIDING, STATION, STOP	CHEMIN DE FER, VOIE D'ÉVITEMENT, GARE, ARRÊT
SEAPLANE BASE, ANCHORAGE	PONT
LANDMARK FEATURES	HYDROAÉROPORT, MOULAGE
HOUSE, BARN	MAISON, GRANGE
CHURCH, SCHOOL	ÉGLISE, ÉCOLE
POST OFFICE	BUREAU DE POSTE
HISTORICAL SITE	LIEU HISTORIQUE
TOWERS: FIRE, RADIO	TOURS: FEU, RADIO
WELL: OIL, GAS	PUIXS: PÉTROLE, GAZ
TANK: OIL, GASOLINE, WATER	RÉSERVOIR: PÉTROLE, ESSENCE, EAU
TELEPHONE LINE	LIGNE TÉLÉPHONIQUE
POWER TRANSMISSION LINE	LIGNE DE TRANSPORT D'ÉNERGIE
MINE	MINE
CUTTING, EMBANKMENT	TRANCHÉE, REMBLAI
GRAVEL PIT	FOSSE DE GRAVIER
BOUNDARIES AND SURVEY CONTROL	FRONTIÈRES ET POINTS DE RÉFÉRENCES
INTERNATIONAL, PROVINCIAL	INTERNATIONALE, PROVINCIALE
BOUNDARY MONUMENT	BORNE FRONTIÈRE
COUNTY, DISTRICT	COMTÉ, DISTRICT
CANTON, PAROISSE - SURVEYED	CANTON, PAROISSE - ARPENTÉ
UNSURVEYED	NON ARPENTÉ
TOWNSHIP, DLS - SURVEYED, UNSURVEYED	CANTON, DLS - ARPENTÉ, NON ARPENTÉ
SECTION CORNERS	SECTION ANGULAIRE
MUNICIPALITY	MUNICIPALITÉ
INDIAN RESERVE, PARK, ETC.	RÉSERVE INDIANNE, PARC, ETC.
HORIZONTAL SURVEY POINT	RÉPÈRE PLANIMÉTRIQUE
BENCH MARK	RÉPÈRE DE NIVELLEMENT
SPOT ELEVATION, ELEVATION APPROXIMATE	POINT COTÉ, ÉLEVATION APPROXIMATIVE
DRAINAGE AND RELATED FEATURES	DRAINAGE ET OUVRAGES CONNEXES
STREAM, SHORELINE, INDEFINITE	COURS D'EAU, RIVE, IMPRÉCISE
DIRECTION OF FLOW	DIRECTION DU COURANT
LAKE, INTERMITTENT	LAC, LAC INTERMITTENT
INUNDATED LAND	TERRAIN INONDÉ
MARSH, SWAMP (WOODED)	MARAIS, MARECAGE (BOISÉ)
DRY RIVER BED WITH CHANNELS	LIT DE COURS D'EAU TARI AVEC CHENAUX
SAND, ABOVE, IN WATER	SABLE: AU DESSUS, DANS L'EAU
STRING BOG	MARECAGES EN ENFILADE
TUNDRA: PONDS, POLYGONS	TOUNDRA: ÉTANGS, SOLS POLYGONAUX
RAPIDS, FALLS, RAPIDS	RAPIDES, CHUTES, RAPIDES
FORESHORE FLATS	ESTRANS
ROCK	ROCHE
DAM	BARRAGE
WHARF	QUAI
DITCH	FOSSE
RELIEF FEATURES	RELIEF
CONTOURS	COURBE DE NIVEAU
APPROXIMATE CONTOUR	COURBE DE NIVEAU APPROXIMATIVE
DEPRESSION	COURBE DE CUVETTE
ESKER	ESKER
PINGO	PINGO
SAND, SAND DUNES	SABLE, DUNES
PALSA BOG	PALSE
WOODED AREA	RÉGION BOISÉE
CLEARED AREA	RÉGION DÉBOISÉE

PHOTOGRAPHY PHOTOGRAPHIE

COMPILATION	RESTITUTION
90 A 20683 08/68 94	
68 A 20687 08/68 64	
60 A 20623 07/68 55	
25 A 20623 07/68 30	



EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES

EXEMPLE DE LA MÉTHODE EMPLOYÉE POUR LUIER DES RÉFÉRENCES À 100 MÈTRES PRÈS

REFERENCE POINT CHURCH - ÉGLISE (as above) POINT DE RÉPÈRE (ci-dessus)

EASTING: Read number on grid line immediately to left of point. LONGITUDE: EST. Note le chiffre de la ligne de quadrillage immédiatement à gauche du repère.

Estimate tenths of a square from this line eastward to point: Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est: 5/975

NORTHING: Read number on grid line immediately below point. LATITUDE: NORD. Note le chiffre de la ligne de quadrillage immédiatement en-dessous du repère.

Estimate tenths of a square from this line northward to point: Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction nord: 4/984

GRID REFERENCE SAMPLE EXEMPLE DU QUADRILLAGE 977064

Nearest similar grid reference 100,000 metres (about 63 miles) La prochaine référence similaire est à 100,000 mètres (environ 63 milles)

REVISION

106 C/5	106 C/6	106 C/7
106 C/4	106 C/3	106 C/2
105 N/13	105 N/14	105 N/15

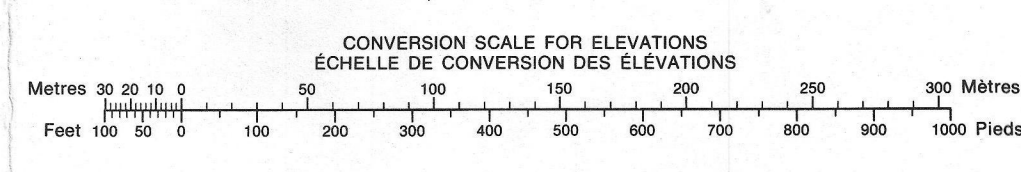
ONE THOUSAND METRE UNIVERSAL TRANSVERSE MERCATOR GRID ZONE 8 QUADRILLAGE DE MILLE MÈTRES UNIVERSAL TRANSVERSE DE MERCATOR

The 1972 MAGNETIC BEARING is 32°37' (580 miles) EAST OF GRID NORTH: L'ANGLE DE LA BÉRIÈRE ÉLECTRIQUE EN 1972 EST 32°37' (580 MILES) À L'EST DU NORD DU QUADRILLAGE.

ANNUAL CHANGE DECREASING 4.7" VARIATION ANNUELLE DÉCROISSANTE 4.7"

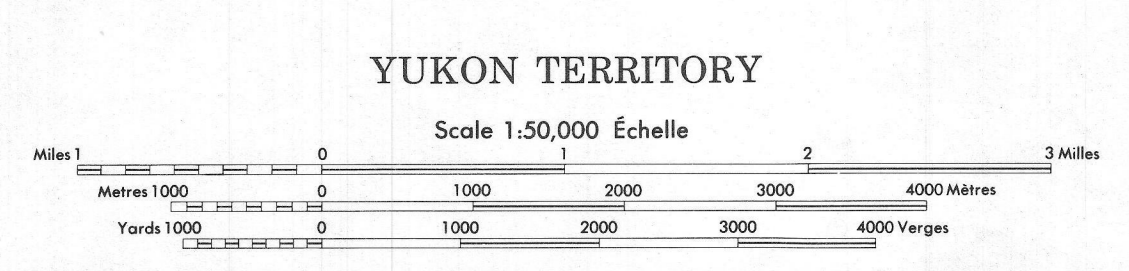
La RÉPÈRE MAGNÉTIQUE en 1972 est 32°37' (580 miles) à l'est du NORD DU QUADRILLAGE.

Le NORD DU QUADRILLAGE est 1°34' (28 miles) à l'est du NORD GÉOMAGNÉTIQUE au centre de la carte.



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Copies may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa, or your nearest map dealer. NORTH AMERICAN DATUM 1927. TRANSVERSE MERCATOR PROJECTION.



Les cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, au prix le plus bas possible. SYSTÈME DE RÉFÉRENCE GÉODÉSIQUE NORD-AMÉRICAIN 1927. PROJECTION TRANSVERSE DE MERCATOR.

ÉTABLIE PAR LA DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES, OTTAWA, EN 1970. ÉQUIDISTANCE DES COURBES: 100 PIEDS. © CANADA 1973 TOUS DROITS RÉSERVÉS.

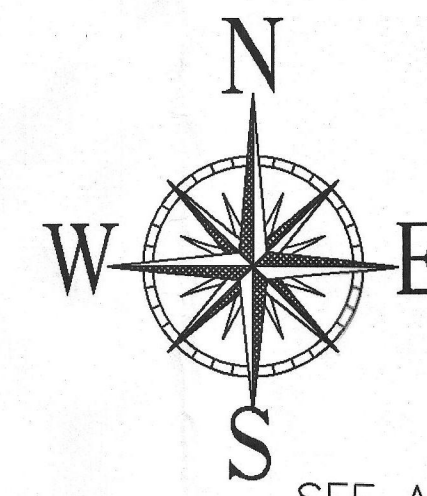
SHEET 106C-3

NOTICE

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

SCALE 1/8 MILE TO 1 INCH

FT 1500 0 1500 3000 4500 6000 7500 9000 10500 FT



106C-8	106C-6	106C-7
106C-4	106C-3	106C-2
106N-13	106N-11	106N-10

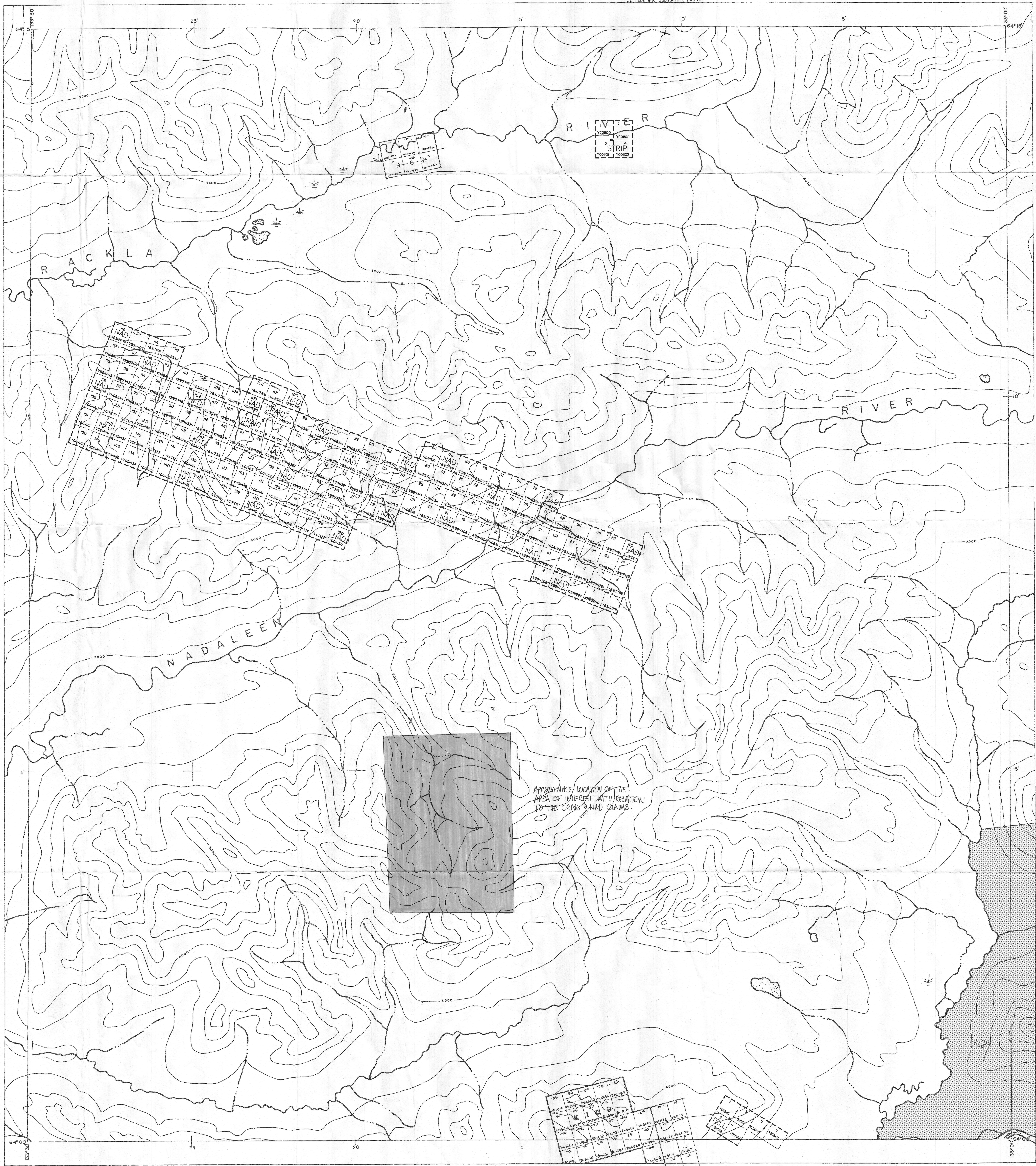
SEE ADJACENT MAP SHEET(S) EDGES FOR ADJOINING MINERAL CLAIMS NOT SHOWN ON THIS MAP

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

NND = FIRST NATION OF NACHO NYAK DUN

MAYO MINING DISTRICT

NOVEMBER 19, 1999



APPROXIMATE LOCATION OF THE AREA OF INTEREST WITH RELATION TO THE CRAG & NAD CLAIMS

Summary

The Kirkland Creek area (115 H/09) platinum project was initiated in an attempt to locate a source of platinum group metals (PGM) in the area around Florence Creek where PGMs have been found in placer deposits. In 1991, S.B. Ballantyne et al. presented microprobe analysis and scanning electron microscope (SEM) images of 12 PGM grains from Florence Creek. Preliminary conclusions from grain and inclusion analyses suggested that Cu sulfides, Fe and silicates in host rocks may be associated with a potential source of platinum group element (PGE) enrichment.

With reference to this, up-ice magnetite showings as well as magnetic highs defined in a 1966 GSC aeromagnetic survey were investigated in the fall of 2000. A total of 8 claims into two groups (CATHCART and PORC-EPIC), in proximity or covering these anomalies, were staked in October 2000. While no potential PGE sources have yet been identified, work is on-going and reconnaissance prospecting is being extended to cover the Florence Creek area itself (115 H/16).

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Introduction

This report was prepared in partial requirement of the Yukon Mining Incentive Program grant #00-085 agreement.

Exploration work consisted of prospecting and geochemical sampling in the Kirkland Creek area (NTS 115H/09) in search of possible PGE sources for Florence Creek placer PGMs identified by Ballantyne (1991).

Location and Access

The Kirkland Creek Area project with its Cathcart and Porc-Epic claims, is located in the Whitehorse Mining District at latitude $61^{\circ}37'N$ and longitude $136^{\circ}11'W$, on NTS map sheet 115 H/09. Work is also now in progress closer to Florence Creek on NTS map sheet 115 H/16. The area lies approximately 25 air miles SW of Carmacks (Fig. 1).

While helicopter accessible year round, various ATV and snowmobile friendly trails and bush roads lead to different sections of the area.

One such access, leading to Florence Creek from the North, is a trail off the Mt. Nansen Rd. just outside of Carmacks. Stretching over 25 sinuous miles, the trail crosses several creeks and challenging variations in elevation, especially when unbroken in the winter. A series of ponds and swampy terrain approximately 2 miles north of Florence Creek over at least a half mile of trail, further complicate winter access with overflow.

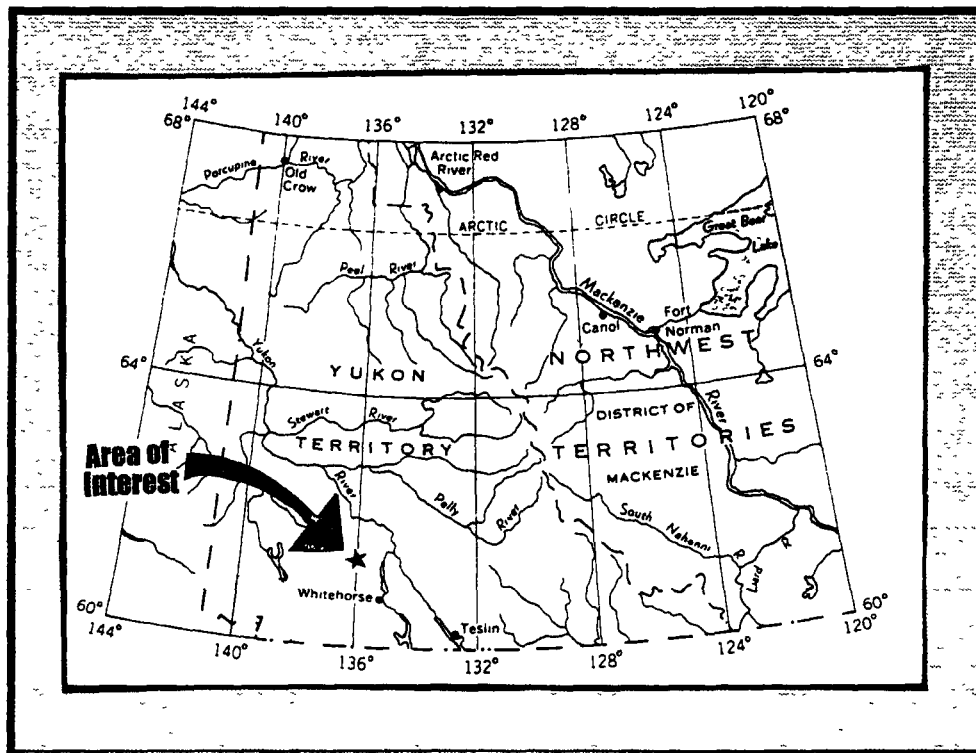


Figure 1. Project Location

Another road, this one to the southern portion of the project area, leaves the Klondike Highway 2km north of the Twin Lakes Campground. This road was built in 1965 to access the Mack Copper claims where the Cathcart claims now stand. While the crossings at Klusha Creek and the Nordenskiold River are gone, this bush road is easily negotiable by ATV or snowmobile.

Physiography and Vegetation

The Kirkland Creek area is comprised of low ridges, approximately 4000ft high, cut by canyons often around 500ft deep. The otherwise moderate relief is characteristic of the closed spruce-hardwood forest of boreal regions: mature aspen and cottonwood (*Populus* spp.), paper birch (*Betula papyrifera*), white spruce (*Picea glauca*) and some lodgepole pine (*Pinus contorta*). Creeks and wetter sites are vegetated by willow (*Salix* spp.), alder (*Alnus* spp.) and resin birch (*Betula glandulosa*) thickets. South-facing, sandy slopes are home to aspen (*Populus* sp.), juniper (*Juniperus* spp.) and cinquefoil (*Potentilla* spp.).

Some of the rare outcrops in the area bear evidence of NW glacial movement in the form of striations. Approximately 80% of the ground explored so far is covered by overburden.

Property

The Cathcart and Porc-Epic claims (Fig. 2), are located in NTS 115 H/09, Whitehorse Mining District, centered at 61°37'N and 136°11'W. The following claims (Table 1) have been recorded in the name of Ron Berdahl:

Table 1: Claim Status

Claim Name	Record No.	# of Claims	Claim Sheet	Expiry Date
CATHCART 1-4	YC18893 to YC18896	4	115 H/09	02/10/2001
PORC-EPIC 1-4	YC18897 to YC18900	4	115 H/09	02/10/2001

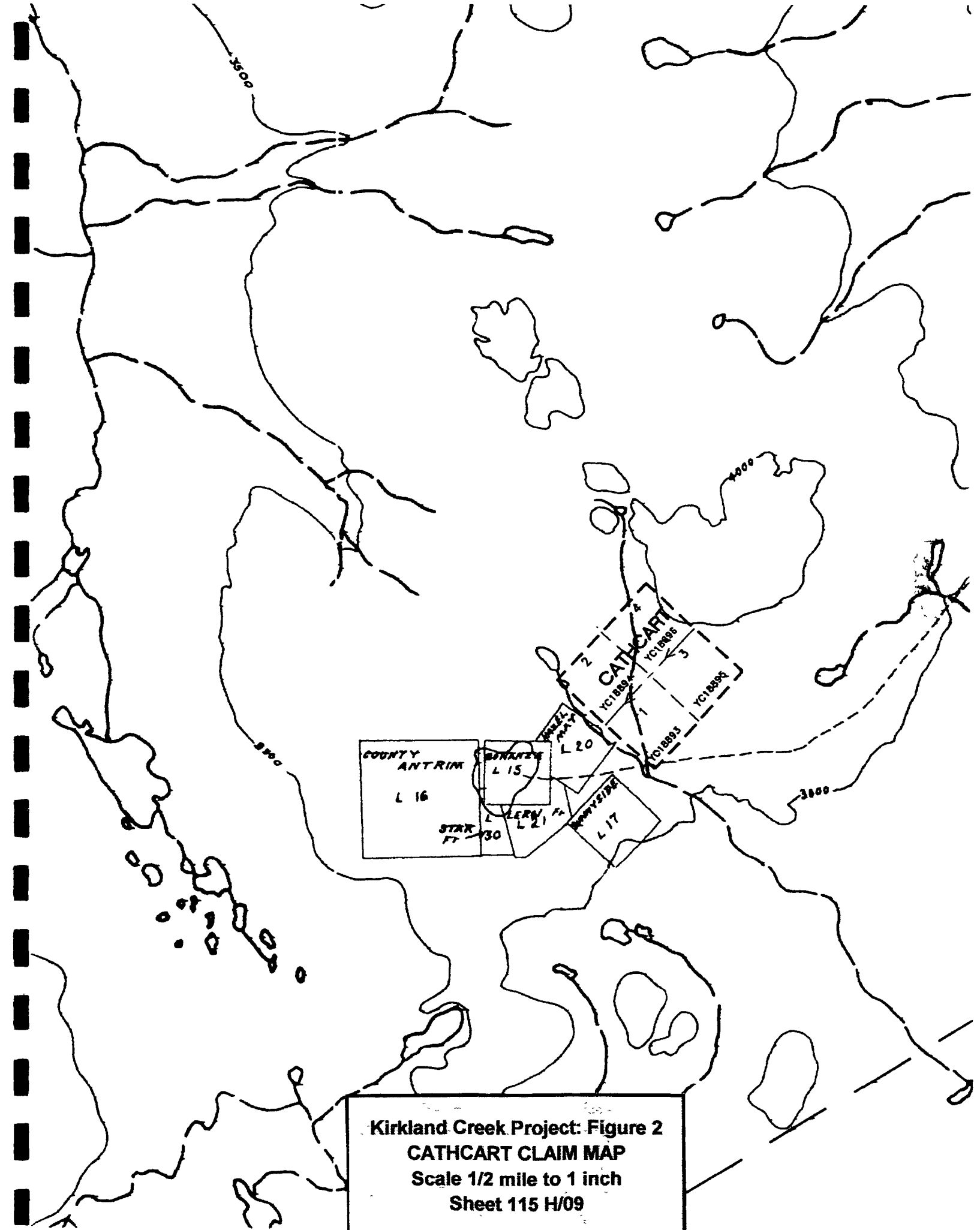
History

I Porc-Epic Claims

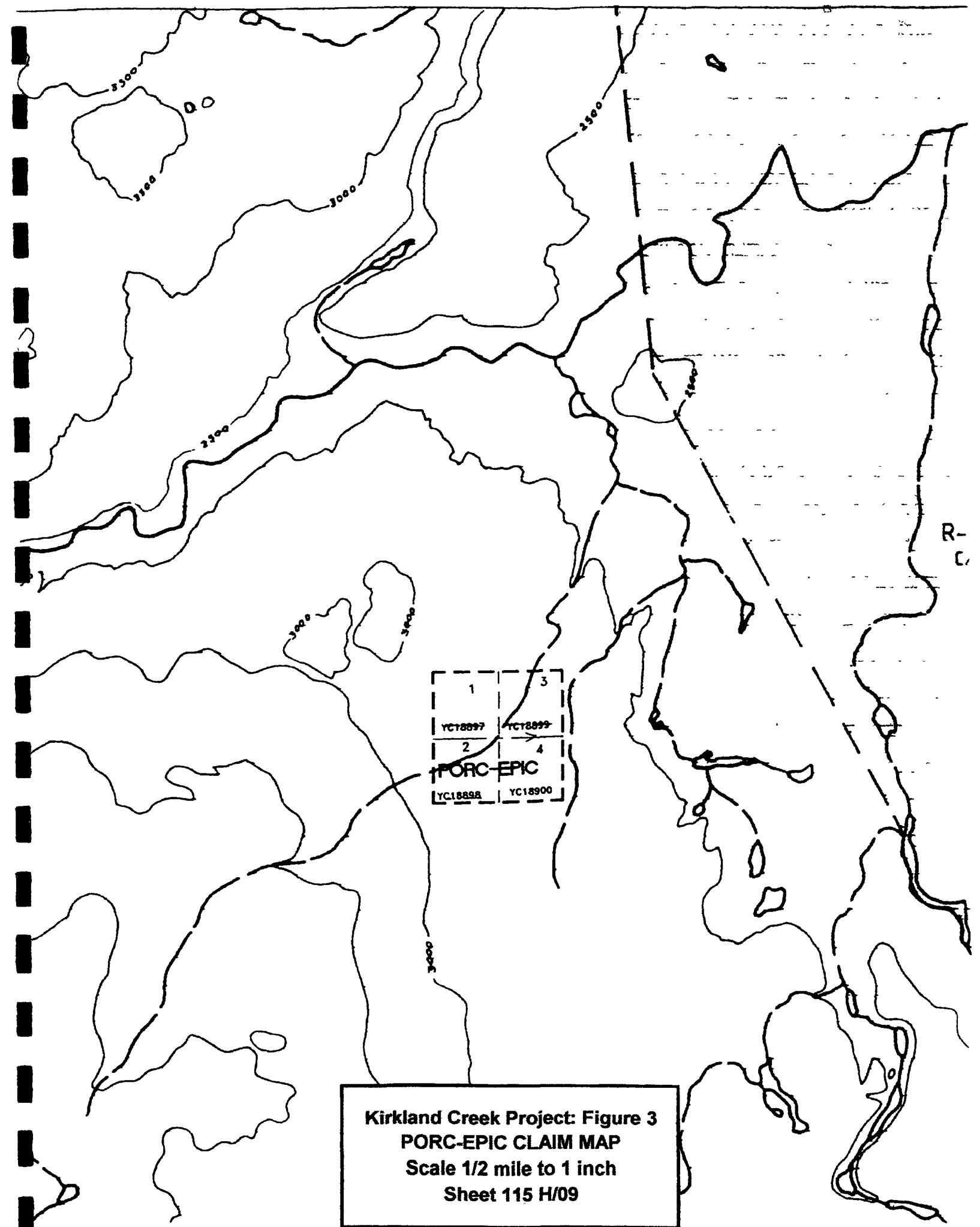
The Porc-Epic claims were previously staked as 3 blocks of AH claims (Y1169) in November 1966 by Empress Mining Ltd, following the release of GSC aeromagnetic data and reconnaissance geochemistry. The major metal commodity was copper. The claims overlaid a small 200 gamma anomaly underlain by Mt Nansen volcanics (Minfile 115H-006)

II Cathcart Claims

The area adjacent to the Cathcart claims was staked as the Ranch, Eaglenest, Bear, etc, by H J Kline in 1904 and restaked by Mack Brothers who had drilled there prior to 1908. Six of these



Kirkland Creek Project: Figure 2
CATHCART CLAIM MAP
Scale 1/2 mile to 1 inch
Sheet 115 H/09



Kirkland Creek Project: Figure 3
PORC-EPIC CLAIM MAP
Scale 1/2 mile to 1 inch
Sheet 115 H/09

claims were leased by I. Goulter around 1910 and, while apparently idle until the mid-40's, when they were staked by a J.A. Smith as the Coppermine. They were later optioned to Newmont in 1960, along with Mac, Extension and Rust claims which had been restaked by G Dickson that year. The leases were optioned again in 1964 by Arctic Mining & Exploration who staked the Saan claims (90944) and conducted a mag survey. Arctic also staked the Grace, Emily, Joyce, etc claims (91679) and built the winter road which was used to access the present day Cathcart claims, and drilled 4 holes totaling 262m. Alice Lake Mining Ltd. restaked the area surrounding the lease as Joe and Hg claims (Y3135) in 1966 and conducted trenching and a geochemical survey. These were later restaked as Saan claims again (Y38271) by D. McLean in 1969 and Alp claims (Y61109) in 1971 by Arsenault and Ass. Finally, in 1972, the area was explored by South Yukon joint Venture and transferred to BA Copper Mining Ltd. In 1975 who drilled just over 300m.

Geology

I. Regional

According to Tempelman-Kluit (1974), the area is underlain by porphyritic quartz monzonite granitoid rocks and by hornblende granodiorite, especially near Florence Creek. Massive green volcanics in the form of epidotized basalts are also predominant of the few outcrops visible in the area which is otherwise thickly covered by glacial and glaciofluvial deposits. Studies by Hughes (1989) have shown that these deposits were of McConnell age. One other rock type, identified just north of the Cathcart claims, is an approximately 200m long eroding outcrop consisting of conglomerate. Thought to be a remnant of Jurassic Laberge Group or Tertiary Carmacks Group (Cathro, 1972), its sandy matrix binds together green volcanics, basalt-like cobbles and chert and quartz pebbles.

II. Local

Few characteristically dark-green, metavolcanic outcrops typify the Cathcart and Porc-Epic claims. A conservative estimate of 80% overburden coverage is adequate for the area and is probably underlain by Triassic Mt. Nansen volcanics.

Prospecting and Geochemical Survey Results and Discussion

The 2000 sampling and prospecting program failed to identify a potential source for PGEs in the Kirkland Creek area. The highest running sample for any element excluding Fe, was R-09, (3.0% Cu), a pyritized malachite float that also returned the highest Au result (1282 ppb), but only 15 ppb Pt. The highest Pt (31 ppb) result was D-06, a soil sample collected 600m NE of the Cathcart claims and returning 224 ppm Cu. D-08, a soil sample from the scree below the conglomerate, returned the only noticeable value for Mo (353 ppb). The highest Pd result (33 ppb) belonged to R-002 which also returned the only Bi (1647 ppm) content. Correlation (n=21) is practically nil for Cu:Pt (-0.01), Cu:Pd (-0.13), Fe:Pt (-0.28), Fe:Pd (-0.83), Au:Pt (0.04), and Au:Pd (-0.03). None of the Porc-Epic claim area samples returned favourable results for any element.

Syenite stock on leased claims were not investigated but may be similar in geology to the Maple Leaf Property in BC (BC MEM, 2000) where Pt is associated with chalcopyrite. The Galore Creek alkalic Cu/Au porphyry in BC is hosted in multi-aged syenite, some of which have bornite-rich subzones. Galore Creek is found in Stikinia Terrane as is much of the Kirkland Creek area.

Ballantyne (1991) resolved that inclusions in Pt/Fe grains potentially point to the source of Florence Creek placer PGMs, to comprise all Fe/Cu showings, especially those with bornite. None of the latter were discovered in 2000.

Bill Lebarge's work (personnel communication, 2001) at Florence creek suggests the presence of a local PGE source, since pan contents from the creek are 50% ultramafic, while the creek bed itself is granitic. While the 2000 prospecting program did not determine a source of PGE in magnetite skarn or malachite showings, this confirmation of a probable local origin encourages future exploration plans.

Conclusion and Recommendation

The gravels at Florence Creek yield large amounts of magnetite with fine gold and Pt/Pd grains. No obvious source exists *in situ*. The Kirkland Creek area project's initial goal was to examine up-ice Cu/Fe skarn and magnetic highs as potential sources of PGEs. Preliminary work has not led to the discovery of Pt/Pd in even the most obvious skarn area, traditionally known as Mack Copper.

The investigation has however pointed to several new sites warranting further exploration:

- ⇒ Cu/Fe skarns with an emphasis on sampling chalcopyrite-rich specimens
- ⇒ Unstaked magnetic high SE of Florence Creek
- ⇒ Alkalic intrusives with Cu signatures, as in the Franklin camp and the one near Mack Copper
- ⇒ The magnetic highs between Kirkland Creek and Florence Creek, specifically targeting pyroxene-rich/ultramafic zones.
- ⇒ The creek at the Porc-Epic claims should also be panned for PGEs as its geochemical and magnetic signatures are similar to the tributary of Florence Creek which yields PGE.

References

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- Cathro, R J 1975. *Geology and Geochemistry, Alp 3-73 Claims, (Y61104-61166 and Y66034-66046)*. Whitehorse Mining Recorder
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- Hughes, O.L., 1989. *Surficial Geology: Little Buffalo Lake, Yukon Territory*, Geological Survey of Canada, Map 23-1987, Scale 1:100 000.
- Templeman-Kluit, D.J., 1974. *Reconnaissance geology of Aishihik Lake, Snag and Part of Stewart River Map Areas, West Central Yukon*, Geological Survey of Canada, Paper 73-41.
- Yukon Minfile 115 H-006

Statement of Qualifications

I, Anne Bordeleau, hereby certify that:

1. I am a prospector and geological assistant and have earned my living as such since 1994, for myself and various exploration companies in the Northwest Territories, Nunavut, Alberta and the Yukon.
2. I have completed the Advanced Prospecting Course at the Yukon Chamber of Mines in 1998.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Anne Bordeleau', with a long, sweeping horizontal stroke at the end.

Anne Bordeleau

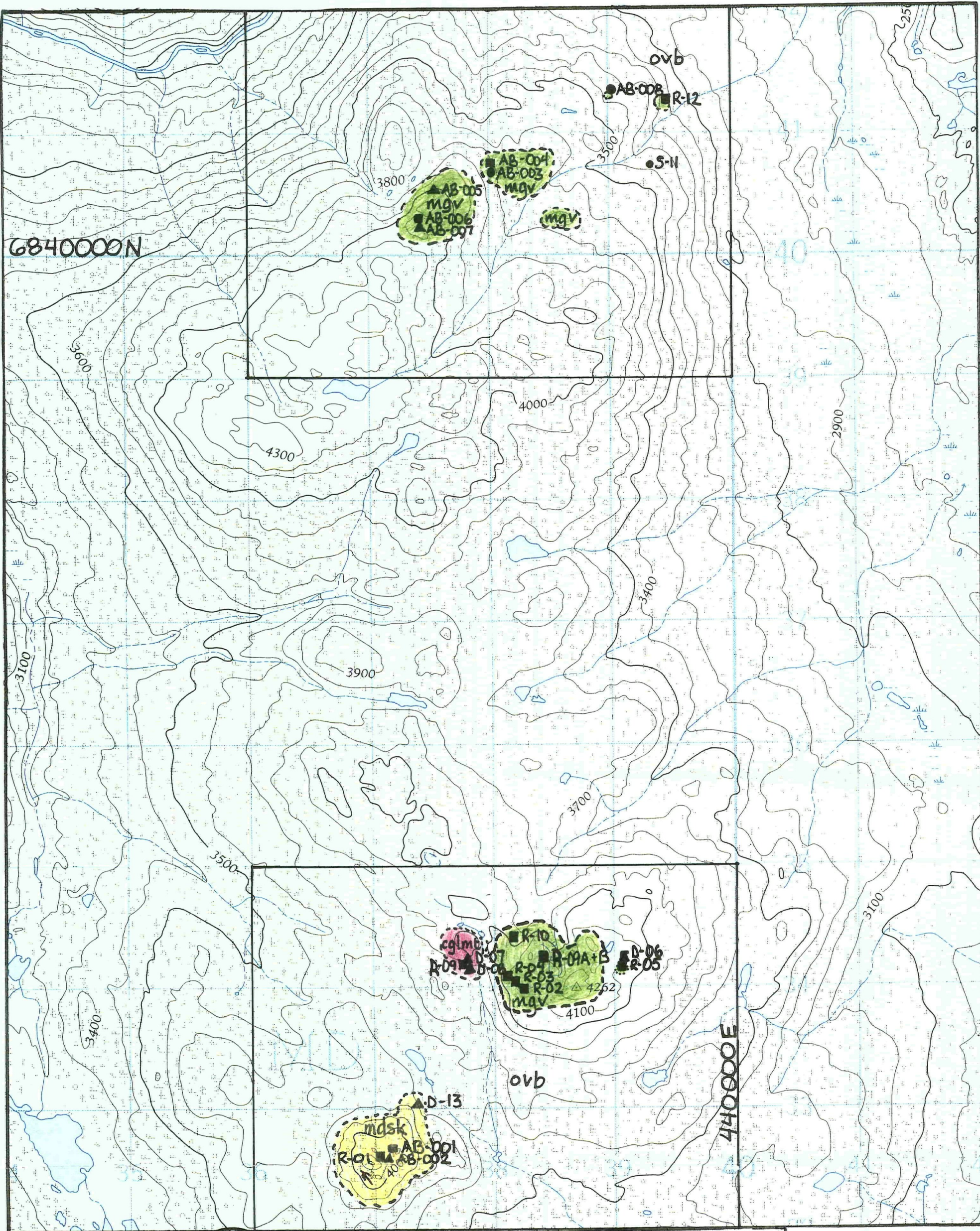
January 20 2001.

Statement of Costs

Analytical Services (NAL)	\$ 935 00
Helicopter Travel (TransNorth Helicopter)	\$ 1429 52
Labour (Field Assistant Ron Berdahl), 8 days @ \$150 00	\$ 1200 00
Daily Living Expenses 16 persondays @ \$35 00	\$ 560 00

Total	\$ 4124 52
-------	------------

APPENDIX I
Geology and Sample Location Map



YMIP#00-085b
 KIRKLAND CREEK AREA
 GEOLOGY & SAMPLE LOCATION MAP
 115 H/09
 Scale: 1: 25 000

Geology Legend	
	conglomerate, Lebarge or Carmacks Group
	massive green volcanics
	magnetite-diopside skarn
	McConnell age glaciofluvial deposit
	glacial striae

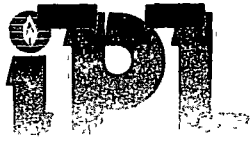
Sample Legend	
	Rock
	Soil
	Stream Sediment

APPENDIX II
Sample Description
2000 Assay Results

YMIP00-085b: Kirkland Creek Area

Sample Description

Sample #	Type	Description	UTM
AB-001	rock	outcrop, magnetite, red-stained	437187E 6832679N
AB-002	soil	brown, @ 20cm depth, silt size.	437162E 6832675N
AB-003	str sed.	brown silt & clay w/ coarser white sand of light density	438062E 6840713N
AB-004	rock	grst outcrop w/ disseminated py & yellow limonization	438025E 6840737N
AB-005	soil	reddish brown, on small 5X% kill zone, @ 20cm	437573E 6840552N
AB-006	rock	greenstone float w/ pyrite & silver/grey mineral, on kill zone	437421E 6840350N
AB-007	soil	red/orange on 7X15m killzone, @ 20cm depth	437425E 6840342N
AB-008	str.sed	sed from W-springing stream, beige/brown w/ magnetite	439014E 6841320N
R-00-H9-01	rock	rusty volc. outcrop, w/ pyrth, almost skarn-like, magnetic	437165E 6832670N
R-00-H9-02	rock	qtzte w/ py, ap?	438262E 6833996N
R-00-H9-03	rock	gst w/ minor py & major apy	438189E 6834025N
R-00-H9-04	rock	limonitic rock, vuggy volc., float from old cat trench	438192E 6834050N
R-00-H9-05	rock	basalt-like outcrop	439102E 6834229N
D-00-H9-06	soil	red soil, @ 30cm depth, 25% sand, 75% silt	439108E 6834234N
D-00-H9-07	soil	from top of cglmt. killzone, strike: 312, 25 cm deep	437780E 6834258N
D-00-H9-08	soil	below cglmt. @ scree, sandy soil, light orange/yellowish	437799E 6834247N
R-00-H9-09	rock	conglomerate outcrop	437790E 6834240N
R-00-H9-09A	rock	pyritized float, Cu-rich, from trench	438401E 6834250N
R-00-H9-09B	rock	float w/ minor azurite, malachite, from trench	438412E 6834199N
R-00-H9-10	rock	magn. skarn w/ mal & hemat. from outcrop	438151E 6834410N
S-00-H9-11	str.sed.	seep w/ sand & magnetite	440391E 6840754N
R-00-H9-12	rock	very hard green apharytic outcrop w/ chalc & py	439452E 6841312N
D-00-H9-13	soil	magnetitic dirt, over a 5m length	437402E 6835052N



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CERTIFICATE OF ANALYSIS

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Vancouver, B C
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Fax (604) 879-7898
Email ipl@direct.ca
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Northern Analytical Laboratories

Project : WO#00159
Shipper : Norm Smith
Shipment: PO#: 568103
Analysis:
ICP(AqR)30

60 Samples

Out: Oct 25, 2000 In: Oct 12, 2000

Comment:

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	Fx:867/668-4890				
	Em:NAL@hypertech.yk.ca				

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Analytical Summary							
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02	0711	ICP	ppm	Cu ICP	Copper	1	20000
03	0714	ICP	ppm	Pb ICP	Lead	2	20000
04	0730	ICP	ppm	Zn ICP	Zinc	1	20000
05	0703	ICP	ppm	As ICP	Arsenic	5	9999
06	0702	ICP	ppm	Sb ICP	Antimony	5	999
07	0732	ICP	ppm	Hg ICP	Mercury	3	9999
08	0717	ICP	ppm	Mo ICP	Molybdenum	1	999
09	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	999
10	0705	ICP	ppm	Bi ICP	Bismuth	2	9999
11	0707	ICP	ppm	Cd ICP	Cadmium	0.1	99.9
12	0710	ICP	ppm	Co ICP	Cobalt	1	9999
13	0718	ICP	ppm	Ni ICP	Nickel	1	9999
14	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	9999
15	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	999
16	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	9999
17	0729	ICP	ppm	V ICP	Vanadium	2	9999
18	0716	ICP	ppm	Mn ICP	Manganese	1	9999
19	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	9999
20	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	9999
21	0731	ICP	ppm	Zr ICP	Zirconium	1	9999
22	0736	ICP	ppm	Sc ICP	Scandium	1	9999
23	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	%	Fe ICP	Iron	0.01	9.99
27	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

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DL=Download 3D=3/4 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No) ID=C030901

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BC Certified Assayer: David Chiu



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2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipl@direct.ca

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories
Project: WO#00159

60 Samples
60=Pulp

[137517:17:04:00102500]

Out: Oct 25, 2000
In : Oct 12, 2000

Page 1 of 2
Section 1 of 1

Sample Name	Ag	Cu	Pb	Zn	As	Sb	Hg	Mo	Tl	Bi	Cd	Co	Ni	Ba	W	Cr	V	Mn	La	Sr	Zr	Sc	Ti	Al	Ca	Fe	Mg	K	Na	P
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%	%	%	%	%	%

AB008 ? P < 13 8 49 < < < 1 < < 0.7 8 7 83 < 15 49 227 9 43 2 4 0.06 0.99 0.79 1.70 0.40 0.05 0.04 0.08

AB001 P 1.4 295 28 43 < < < 7 < < < 23 45 30 < 24 292 67 < 4 13 < 0.01 0.15 0.07 26% 0.04 0.03 0.02 0.06

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01
 Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00
 Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP
 ---No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate% NS=No Sample P=Pulp



CERTIFICATE OF ANALYSIS

iPL 00J1375



2055 Columbia Street
Vancouver, B.C.
Canada V5Y 3E1
Phone (604) 879-7878
Fax (604) 879-7898
Email ipI@direct.ca

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Page 2 of 2
Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Tl %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
AB002	P 0.4	90	11	71	<	<	<	22	<	<	0.2	15	14	220	5	23	115	994	7	33	3	5	0.05	2.08	0.53	8.55	0.54	0.06	0.03	0.06	
AB003	P <	8	2	13	<	<	<	<	<	<	0.2	3	5	63	<	3	17	155	4	38	1	<	0.04	0.32	0.84	0.56	0.13	0.02	0.05	0.09	
AB004	P 0.1	231	9	92	<	<	<	4	<	<	1.4	35	15	10	<	40	138	986	<	47	15	7	0.31	2.53	2.94	5.19	1.27	0.02	0.02	0.10	
AB005	P <	23	13	38	<	<	<	2	<	<	0.6	10	16	130	<	22	67	226	6	30	2	3	0.07	1.79	0.53	2.41	0.44	0.04	0.04	0.02	
AB006	P 0.2	269	8	115	<	<	<	4	<	<	1.2	49	24	33	<	46	170	1346	3	16	8	10	0.16	2.54	1.19	6.75	1.41	0.03	0.05	0.13	
AB007	P 0.1	145	11	72	210	<	<	3	<	<	0.8	22	19	64	<	21	145	644	9	25	5	17	0.02	2.32	0.32	5.48	0.59	0.03	0.03	0.02	
R-00-H9-01	P 0.2	199	6	75	37	<	<	9	<	<	1.0	24	27	35	<	70	85	182	5	110	5	5	0.13	2.62	1.92	3.24	0.23	0.10	0.39	0.10	
R-00-H9-02	P 9.4	591	49	77	<	<	<	16	<	1647	<	47	28	16	103	<	30	139	332	<	36	9	5	0.12	1.09	0.41	15%	0.33	0.07	0.17	0.10
R-00-H9-03	P 1.2	258	9	50	<	<	<	8	<	<	0.1	76	16	13	<	34	103	474	<	45	4	7	0.09	2.10	0.75	8.53	0.92	0.07	0.15	0.07	
R-00-H9-04	P 7.2	1264	300	4275	274	<	<	11	<	<	4.9	32	33	44	<	12	246	1204	<	10	14	18	<	1.11	0.06	23%	0.25	0.07	0.02	0.05	
R-00-H9-05	P 0.3	23	113	74	<	<	<	2	<	<	0.8	9	16	151	<	42	38	88	38	86	4	5	0.14	0.98	0.88	2.19	0.14	0.10	0.09	0.21	
R-00-H9-06	P 0.1	224	19	74	<	<	<	4	<	<	<	17	28	149	<	26	87	249	25	78	7	9	0.05	3.49	0.59	5.13	0.52	0.09	0.04	0.05	
R-00-H9-07	P <	19	12	79	<	<	<	17	<	<	0.9	14	16	199	<	33	72	411	15	48	12	8	0.09	2.12	0.47	4.04	0.48	0.06	0.03	0.04	
R-00-H9-08	P 0.2	32	16	193	170	<	<	353	<	<	0.1	46	46	163	<	46	120	1061	22	81	16	15	0.05	1.83	0.64	8.30	0.26	0.17	0.03	0.11	
R-00-H9-09	P 1.3	2539	29	80	<	<	<	9	<	<	3.3	82	56	20	<	16	122	348	<	4	11	<	0.01	0.37	0.24	25%	0.14	0.03	0.02	0.09	
R-00-H9-09A	P 59.2	3.0%	39	228	<	<	<	8	<	<	<	124	96	14	9	47	165	1531	<	8	8	2	0.01	1.26	2.37	19%	0.63	0.06	0.02	0.09	
R-00-H9-09B	P 24.8	9199	30	97	<	<	<	5	<	<	5.1	96	76	19	<	18	137	506	<	5	12	<	0.01	0.56	0.48	25%	0.25	0.03	0.02	0.05	
R-00-H9-10	P 14.6	3060	31	61	<	<	<	7	<	<	1.8	29	31	17	<	18	175	435	<	5	11	<	0.01	0.53	0.25	24%	0.20	0.03	0.02	0.04	
R-00-H9-11	P <	28	2	32	<	<	<	1	<	<	0.5	7	10	74	<	12	37	203	6	35	2	2	0.06	0.81	0.65	1.47	0.33	0.04	0.03	0.06	
R-00-H9-12	P 0.2	51	7	107	20	<	<	147	<	<	1.0	10	15	68	<	33	30	118	22	58	2	5	0.06	0.69	0.62	1.81	0.11	0.14	0.06	0.13	
R-00-H9-13	P 0.5	88	34	59	<	<	<	14	<	<	<	35	30	69	<	17	81	1226	4	30	5	6	0.01	1.32	0.91	15%	0.34	0.06	0.03	0.07	

Min Limit 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5 1 2 1 2 1 1 1 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01 0.01

Max Reported* 99.9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00 5.00

Method ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP

—No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp

20/10/2000

Certificate of Analysis

of pages (not including this page): 2

Ron Berdahl

WO# 00159

Certified by _____
 Justin Lemphers (Senior Assayer)

Date Received: 05/10/2000

SAMPLE PREPARATION:

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	25	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	22	soil	Screen -80 mesh
r	13	rock	Crush to -10 mesh; riffle split 200g; pulverize to -200 mesh

ANALYTICAL METHODS SUMMARY:

Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
Au	ppb	Gold	G: FA/AAS	15g FA / aqua regia	5	7000
Au 30g	ppb	Gold	G: FA/AAS	30g FA / aqua regia	5	7000
Pt 30g	ppb	Platinum	G: FA/AAS	30g FA / aqua regia	5	7000
Pd 30g	ppb	Palladium	G: FA/AAS	30g FA / aqua regia	5	7000

AAS = atomic absorption spectrophotometry

FA = fire assay

1000ppb = 1ppm = 1g/mt = 0.0001% = 0.029166oz/ton

20/10/2000

Certificate of Analysis

Page 1

Ron Berdahl

WO# 00159

Certified by _____

Sample #	Au ppb	Au 30g ppb	Pt 30g ppb	Pd 30g ppb
s AB008		8		

20/10/2000

Certificate of Analysis

Page 2

Ron Berdahl

WO# 00159

Certified by _____

Sample #	Au ppb	Au 30g ppb	Pt 30g ppb	Pd 30g ppb
r AB001		31	<5	<5
s AB002		13	<5	<5
s AB003		<5	19	<5
r AB004		<5	17	8
s AB005		<5	6	5
r AB006		41	18	18
s AB007		<5	15	6
r R-00-H9-01		<5	22	12
r R-00-H9-02		124	14	33
r R-00-H9-03		90	5	6
r R-00-H9-04		595	13	10
r R-00-H9-05		<5	10	<5
s D-00-H9-06		20	31	<5
s D-00-H9-07		<5	15	<5
s D-00-H9-08		<5	12	<5
r R-00-H9-09		22	8	12
r R-00-H9-09A		1282	15	<5
r R-00-H9-09B		348	13	5
r R-00-H9-10		186	17	<5
s S-00-H9-11		<5	14	<5
r R-00-H9-12		<5	16	<5
s D-00-H9-13		36	<5	<5

Handwritten mark: a vertical line with a horizontal tick and an arrow pointing down.

YMIP00-085b
Kirkland Creek Area
115 H/09

Field Diary

Anne Bordeleau
January 20 2001

FLORENCE CK.

19 SEPT 2000

AB-001 ✓ ROCK

MAGN. RED STAINED, HEAVY; OUTCROP; 437187E
6832679N

AB-002 ✓ - Soil

BR; 437162E 6832675N; 20cm depth

POST 1 CATHCART 1 SW 1500' L SEPT 20 2000 RSBERDAHL

POST 1 CATHCART 2 SW 1500' R SEPT 20 2000 RSB

437931E 6833320N

POST 2 CATHCART 3 SEPT 20 2000 RSB

POST 2 CATHCART 4 SEPT 20 2000 RSB

POST 1 CATHCART 3 SEPT 20 2000 RSB

POST 1 CATHCART 4 SEPT 20 2000 RSB

438257E 6833629N

Y 3323 POST 1 @ 438185E 6833838N

Y 3325 POST 1

R-00149-02 ✓

438262E 6833996N

AB-005 ✓ SOIL

REDDISH BROWN DIRT ON SMALL KILL ZONE 5X5m

@ 4375736 840552N

HORIZON BLACK DIRT 8cm

ASH 5cm

RED DIRT

ONLY RED DIRT SAMPLED

AB-006 ✓ GRST FLOAT

W/ PY + SILVER GREY MINERAL; ON KILL ZONE

437421 E 6840350N

AB-007 ✓ RED/ORANGE DIRT ON 7m X 15m; 290° STRIKING

KILL ZONE. COORD: SAME AS 006

DEPTH: 20cm

AB-008 ✓ SEDS

COMING STRAIGHT FROM THE W, SPRINGS
FROM UNDER TREE ROOT; SOME MAGN. @
SURFACE, BEIGE/BR SOIL

439014 E 6841320N

22 SEPT 2000

→ HELI PICK-UP! ←

POST 1, PORC-EPIC 1, SEPT 22 2000, 1500' L E, R810

POST 1, PORC-EPIC 2, SEPT 22 2000, 1500' R E, R810

→ 439660E/6841445N ←

Platinum Project 115H/9-16

Sept 19- in @ Kline Cu
Stake Catchment 1-4

test various Mag & Cu samples
from Kline Cu (Plum Cu)

@ R-00-115H9-01 ✓ rusty ^{W5}

vole(?) - non to a slightly mag w/
physite striking (poss) Fe;
some rx banded - almost glass like

rx above mag high greenish
vole w/ mag - slightly magnetite
cut above post 1's 2 & 4 - mineralogy
felt 1.6 @ Kline Cu.

✓ R-00-115H9-02 - white ^{W5} ^{W5}
pyrite - about
GPS'd - in second
'red zone' - 100 m NE of it
(same unit?) argill. & silty limonite

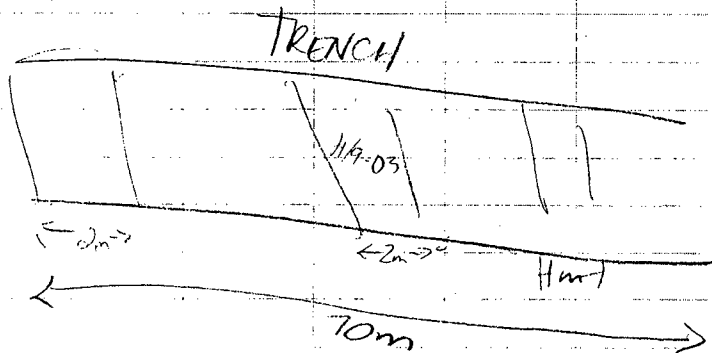
R-00-115H9-04 ✓ very
limonite muggy vole(?)
in old cat track - N 75m

R-00-H/9-03 ✓

438189 E Green w/Pyru (APY)
6834025 N "2m wide"

R-00-H/9-04 ✓

20m N of 03
LIMONITIC ROCK, RED,



R-00H9-05 ✓

@438102E 6834229 N
BASALT-LIKE?? FROM OUTCROP?

D-00H9-06 ✓

RED SOIL, 6" DEPTH
SAME @ AS R-00H9-05

D-00H9-07 ✓

FROM KILLZONE, STRIKING 312° 30m long X 8m wide
ON TOP OF CGLMNT (= SAME AS -08)

NO. 312

D-00H9-08 ✓

FROM SCREE @ 437799E 6834247N BELOW
CGLMNT → 80m LONG X 12m HIGH
MOSTLY BASALTS IN YELLOWISH MATRIX.
FROM SMALL PEBBLES TO COBBLES SEVERAL
METERS WIDE.

R-00H9-09 ✓

CONGLOMERATE, SAMPLED FOR MATRIX
ANALYSIS (SAME @ AS ABOVE)

437267E 6833514 N Y9882, Post 1
Y9883, Post 1

21 SEPT 2000

GRST OUTCROP @ 438098E 6840674N @ 1106 mH

AB-003 ✓

STREAM BED

438062E 6840713N

BR SILT + CLAY W/ COARSER WHITE* SAND-SIZE MATERIAL
VERY LIGHT IN DENSITY

AB-004 ✓

438025E 6840737N GRST OUTCROP W/ DISSEMI-
NATED PY & LIMONITIC WEATHERED SECTIONS
(SAMPLED BOTH GRST + LIM)

Sept 21 - WP 48 - Bonanza shovels

WP 49 → claim line
same where near second line
showing / mag highs - runway ~50'±
- Post No 1 16 HH TAG Y11183

1500AE, 1500R G steps ...? Oct ???

green volc. phenocris w/ black/gen x bla
equipment + magnetic

lots of boulders

- creek in ravine w/ sharp ^{sw} bend ~~NE~~ ←

up 50 - 0440391

6840754

Claims by Joe Suid Oct 24, 1966 "AH"
on claim line near Post #1 17 + 18

deep w/ sand - some magnetic

S-00-H9-0-11

very - v. hard @ creek - gran mag
very small pieces

0439452 } v. hard qtz aplite
6841312 } w/ minor magnet
abundant magnetite

NO. 312

SEPT 22 2000

POST 2 PORC-EPIC 1

" " " 2

POST 1 " " 3 1500' L E

" " " 4 1500' R E

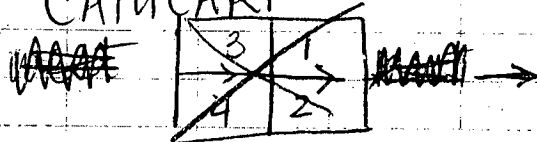
440113E

684146BN

POST 2 " " 3 } 440562 E

" " " 4 } 6841405N

CATICART



R-00-H9-10

Mag storm w/ cu

+ hematite in center adj to

Hogel mag survey post - east

of Bonanza showing

R-00-H9-9 (A) pyrite rich

(B) like 9 - can rich hematite
near Azurite

364/47

R-00-H9-1, 2, 3, 4, 5, 6, 7, 8, 9, 10 - 12

11

R-00-H9-13 - 2m soil

across N. end of Survey stn

Conglomerate
As. R?

ALL DATA FROM TACOMA WASHINGTON
WWW.IFERRUM.COM

NO. 312

ALL DATA FROM TACOMA WASHINGTON
WWW.IFERRUM.COM

ALL DATA FROM TACOMA WASHINGTON
WWW.IFERRUM.COM

YMIP00-085a
Nadaleen River Area
106 C/03

Field Diary

Anne Bordeleau
January 20 2001

Aug. 3 - 1st whse

~~wag point at~~ Camp 0583764
MOSS → 7104931

→ Dad Died 1995

Aug 6th ~ around mtn 42

GPS @ "limestone reef" 43

46

@ fault ~ 310° - variety of rpt 48

'grn qtz' → fluorite? 40141

possible volcanics

shale vert @ 310° (gray shale)

w/ quartzite or volc juxtaposed

Around mtn various rx types

qtz, brecciated dolomite

shale (porron)

@ Pass (#3 ^{R&F} sample corh) verticle

maroon shale strike NW (310°)

juxtapose limestone (dolomite) (on north)

"passes", "faults" "low areas" are

of the associated w/ shale or

shale — contacts

R-13 - laminated black
shale @ Barite
(between post 1+2 - near
ly show)

Aug 8 stake

Aug 9 - downstream from camp
red flt 4" +
qtz w/ black amorphous
brittle mineral - coal like -
min green qtz like mineral
also minor red shale
→ has brown streak
iridescent in splinters on qtz

lots of small ^{well formed} qtz & sils in
1-2" veins - very white qtz
→ often limonitic - could be
source of high As/Hg ??? in
RBS data

- 105N - orange soil in orange/sulf
stone between qtz rich (var) dolomite

R-08 - limonitic qtz 'vein'
(sweat) in blue shale
- mid upper creek - shale
vert strike NW -
possible metal assoc w/
limonite grey.
(Also qtz w/ possible ZnS
@ same site (not in this
sample))

R-09 - fist size porphyritic
qtzite (?) w/ 5-10% pyrite
(arsen?) semi radial
light orange colored @
585011 7103978

AUG 08 2000

WHITEHORSE → MAYO: TRAVEL

AUG 08 2000

CAMP SET-UP. PROSPECT TO WATERFALL 1 (S OF CAMP)

FOUND HEAVY GREY/WHITE ROCK, STR. SULFUR SMELL ON W SIDE

AUG 05 2000 GOAL: INSPECT S SIDE OF "E" MOUNTAIN

R01 - Ferruginous 3m S check STRONG SULPHIDE
SMELL VERY ^{at water pan} BALTIE, 20% ORGANIC

YELLOW, BLACK, RED, DISPLACED PEBBLES WITH
VUGGY QUARTZ WITH LEACHED OUT SULPHIDE ???
583751E 7104740N

- ① **R02** 1. STRONG SULPHIDE SMELLING QUARTZ UFTN FLOAT
W/ CRYSTALS VUGS + ALTERED INFILL
2. QUARTZ, CHLORITE CRYSTAL, MARRON SULFIDE
W/ DARK METALLIC SILICEN ~~SMELL~~ ?

R03 BARITE-LIKE? HEAVY, SULFUR SMELLING, GREY, WHITE,
SOME "ZEBRA ED". FLOAT = 30cm TALLUS 30cm
LONG. PICTURE OF ZONE # 24 (30 X 6.5m)
584411E 7104377N

R04 BARITE-LIKE? HEAVY, SULFUR SMELLING, W/ VUGGY QZT/
BARITE CONTACT FROM W EDGE OF ZONE, FLOAT
7104374N 584396E

NOTE: ○ THE TOP EDGE OF THE R03-R04 ZONE IS A LEDGE, FAULT-
LIKE @ 295° PERHAPS DEFINES THIS BARITE SHOWING
25m LONG

YMIP00-085a
Nadaleen River Area
106 C/03

Field Diary

Anne Bordeleau
January 20 2001

- HEAVY SOLIFLUCTION @ $\approx 584250E, 7104700N \approx$ TREE LINE - LARGE "RICE PATTY" TYPE BOILS W/ 95% SCHIST CLAST - MAROON/GREEN SLATE + $\approx 5\%$ DOLOMITIC COBBLES. BOILS AROX 5m CIRC. EACH. VERY SOUPY.

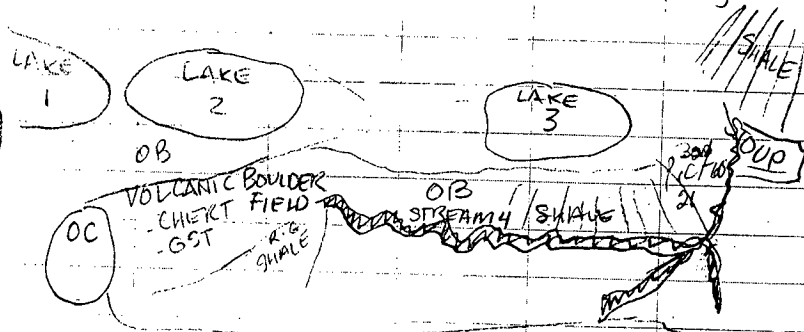
- BLACK SILICIOUS SHALE, DIP 16° STRIKE 220° OUTCROP 5m x 2m WIDE. REST OF RIDGE IS BROKEN UP SHALE.

AUG 07. 2000

GOAL: INSPECT SAMPLE @ LAKE 1 & 2; INVESTIGATE "STOUP" @ STREAM 4.

LAKE 1: SEVERAL FLOATS OF SILICIFIED SHALE BROKEN; SUSPENDED SULFUR SMELL.

BETWEEN LAKE 2 + 3: VOLCANIC BOULDER FIELD: CHERT + GREEN STONE ALSO FOUND BLACK, V. SILICIFIED, CHERT-BREAKING-PATTERNED ROCK (SAMPLED SM. PIECE "cherty")???



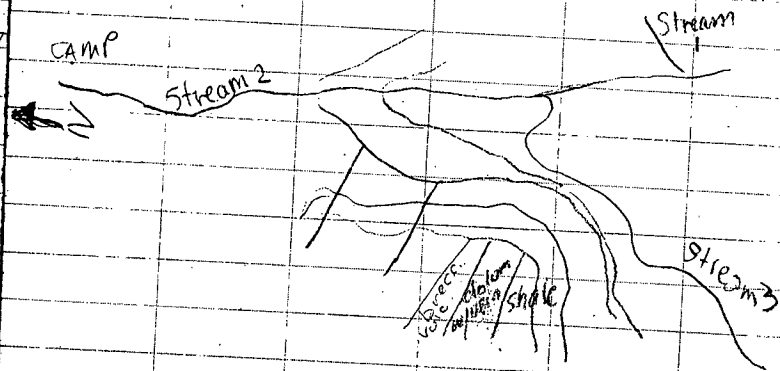
SOUTH MOUNTAIN

AUG 06 2000

∴ MAPPING E OUTCROPS FROM STREAM - "E MOUNTAIN"
 ✱ CONTOUR E MOUNTAIN

DOLOMITIC/LIM OUTCROP - CONCAVE @ 584066E 7105176N

OUTCROP ABOVE STREAM # 2: BRECCIATED DOLOMITIC FLOATS FROM SUMMIT, CHERY SOUNDING ROCKS? VOLC? ALSO SMALL OUTCROP 5m x 10m H. HIGHLY-VAINED (QZT?) DOLOMITIC @ CONTACT W/ MAROON SHALE



- @ CONTACT, RED ALTERATION W/ SOME BLACK STAINING (Mn). NO ZULE. PERHAPS FE LEACHING.

- SHISTOSITY (MAR. GREEN SHALE) @ 585073E 7104991N

- OUTCROP 15 x 25 m. ALL OTHER AREA IS OVERBURDEN W/ VEGETATION. STRIKE 190 DIP 75°

- OUTCROP: PIC #23 585070E 7104815N DOLOMITIC W/ QZITE VEINING "Z-BICAED"

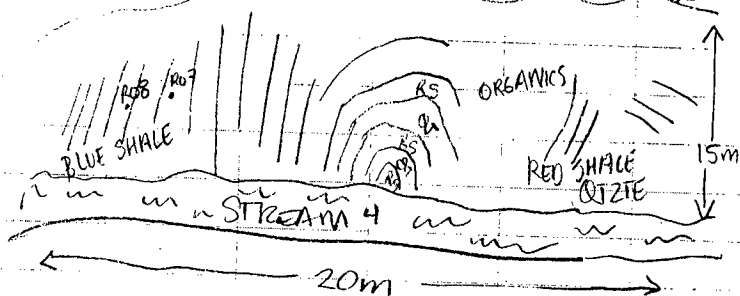
- DIP 60 STRIKE 320 WHITE + MAROON SHALE (VERY WAXY)
584636E 710390N

- PIC 19: GOSSAN E. OF EAST MTN. ALSO OVERLOOKING SHALE
(CARBONACEOUS) UNIT - SCREE ON E SLOPE AND TWO SMALL
SHALE SCREES ON SUB-STREAM (STREAM 4), ORI MOUNTAIN
MAINLY SILICIOUS - DOLOMITE - QTZ - MAROON/W/WHITE
SHALE. MUCH SULFURATION

RO7 585180E 7104230
QTZ W/BLUE SHALE & POSSIBLE SPH. STRONG
SULFUR SMELL. BR NW STRIKE DIP 75.

RO8 SAME COORD. AS RO7. FLOAT LIMONITIC
QTZ W/ CHLORITE IN BLUE SHALE @ STREAM 4
E. BANK NW STRIKE 80° DIP

PIC #11 FOLD RED SHALE/QTZ BENDING. AT SAME
LOCATION AS RO7/RO8. (SEE SKETCH BELOW)

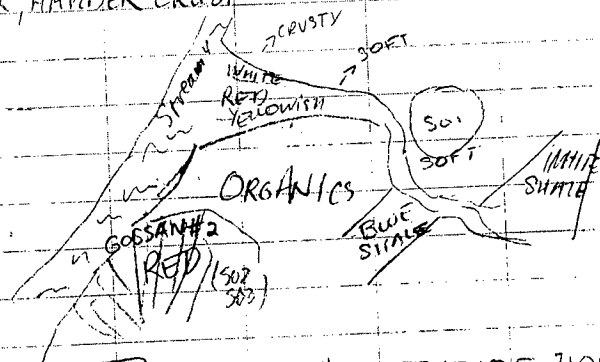


NO. 312

NEW GOSSAN DISCOVERED! YELLOW, WHITE, RED.

→ 584891E 7104033N → VERY SOFT GOSSANOUS

SOIL W/ ORGANICS ENCRUSTED **SAMPLE SO1**
THICKER, HARDER CRUST



→ **SAMPLE SO2** @ GOSSAN #2, 584848E 710409N

VERY RED GOSSANOUS SOIL 6m FROM STREAM #4
16" DEEP. PIC #7. 10 IN LAYER SOFT THAN CRUSTY

→ **SAMPLE SO3** MIDDLE OF GOSSAN #2, 17m SE FROM ↑
MIXTURE OF BLUE SHALY SED, RED GOSSAN & ORGANICS.

→ **SAMPLE R-10** 583751E 7104748N
BARITE-LIKE? SULFUR SMELL, FLOAT

AUG 08 2000

STAKING DAY! (10° CARBON ON HILL
ACROSS CAMP)

→ 584784E 7103993 **SAMPLE R11** HEAVY DOLOMITIC
GREY/WHITE OUTCROP W/ DEFINITE SULFUR SMELL.
OUTCROPPING OVER BLEACHED CARBONACEOUS SHALE
SCREE. 12m X 15m

→ SAME UTM AS R-11. **R-12** BLEACHED CARB. SHALE
FROM SAME SCREE AS ABOVE

→ **304** SAME ° AS R-11, R-12. RUSTY SOIL, DUG OUT @ 12" FROM SCREE TOP. LOTS OF SHALE W/ RUSTY LAYERS.

ALSO: 2 BLOCKS OF BEDDED BARITE. WRITTEN "BEDDED"

BARITE @ R-11:

→ **R-15** CARB. BAR. SHALE SAME ° AS R-12. HEAVY (# CHANGE BECAUSE NOT LOGGED)

TANNER CLAIM 1 1500' R NW AUG 8 2000 R.S.B. POST 1
" 2 1500' L NW AUG 8 2000 R.S.B. POST 1
(585071 E 7103880N)

TANNER CLAIM 1 " " " POST 2
CLAIM 2 " " " POST 2
CLAIM 3 1500' R NW " " POST 1
" 4 1500' L NW " " POST 1
(584660 E 7104039N)

TANNER CLAIM 3 " " POST 2
CLAIM 4 " " POST 2
CLAIM 5 1500' R NW " " POST 1
CLAIM 6 1500' L NW " " POST 1
(584239 E 7104236N)

NO. 312

TANNER CLAIM 5 AUG 8 2000 R.S.B. POST 2
CLAIM 6 " " POST 2
CLAIM 7 1500' R NW " R.S. BERDAHL POST 1
CLAIM 8 1500' L NW " " POST 1
(583821 E 7104436N)

TANNER CLAIM 7 AUG 8 2000 R.S.B. POST 2
CLAIM 8 " " POST 2
(583404 E 7104632N)

AUG 09 2000 (1 BULL MOUSE ON HILL ACROSS CAMP)
- GOAL: RUN DOWNSTREAM - CHECK OUT OUTCROPS, ETC.

→ **R-13** 583191 E 7105047 N QUARTZITE W/ ALTERED
VUGS, RED.

→ **S-05** 583744 E 7105252 N MOSS MAT, 2 MOSS ROOTS
VERY RED

STREAM GOES FROM LIGHT ORANGE TO WHITER YELLOW SHADE
@ 7105221N 583774E WHITE PPT MORE PRONOUNCED
ON E SIDE. VEGETATION: (AVALANCHE ZONE) 2-MOSS
SCARCE WILLOW. SOIL ORANGE/RED TO OVER 24' DEEP.

→ **S-06** 583678 E 7105392N RED SOIL ON SHORE (W)
(STREAM WHITE (1-2MM) THAN RED UNDERNEATH)

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R-14 583632E 7105416N BEDDED "SOAPY" SHALE -
 LIKE BR W/ RED STAINING. DIP VARIED. STRIKE: NW
 Pic #5. HEAVILY FOLDED IN ALL DIRECTIONS?
 "PHYLLITE?"

AUG 10 2000 NIGHT + DAY, VERY HARD RAIN

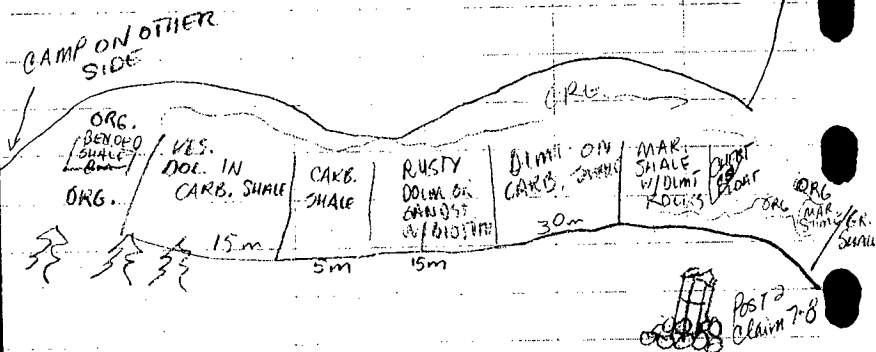
MAP + PROSPECT FROM N TO S, THE W SIDE OF THE
 HILL WHERE CAMP SITS, TOWARDS + PAST CLAIM 7+8, POST 2.

• @ 583579E 7104765N BENDED CARB. SHALE
 DIP: 16° STRIKE 330° BENDS @ 0.5cm SPACING,
 FINE SILICIFIED. REST OF SLOPE SHALE SCREE
 OUTCROP 8m LONG X 2m HIGH

• VESICULAR DLMT OR VOLC? W/ QUARTZ VEINING OVER
 15m WIDE SCREE @ 583499E 7104716N

15% COVERED W/ BLACK STAINING. DLMT SITS IN FINE
 (SAND GRAIN SIZE) SHALE-LIKE DEBRIS (BLACK).

• OVER NEXT 5m, LANDSLIDE OF FINE CARB. SHALE.



• @ 583485E 7104705N SAMPLE **R-16** SIL. DLMT W/ RED

STAINING OR SANDSTONE?? SCREE MADE UP OF 75% OF THIS.
 TOOK SAMPLE TO TRY & IDENTIFY THIS ROCK?? MAY NOT
 ANALYZE.

• SILC. DLMT W/ RED STAINING OVER 15m, THEN 35m
 OF PLAIN GREY/WHITE DLMT. ROCKS ON CARB. SHALE.

• MAROON SHALE W/ 10% DLMT COBBLES ON SCREE OVER
 NEXT 200m, STARTING @ 583458E 7104665N

• @ 583389E 7104604N, CHERT IN FLOAT (75%) OVER
 20m. NO OUTCROP VISIBLE (UNDER SNOW). ALSO COARSE SANDST. (ST)

• @ 583277E 7104574N START CHL. & CARB. SHALE SCREE
 OVER 50m. SLOPE VERY UNSTABLE DUE TO RAIN!

• 50m OF PHYLLITE BOULDERS, NO ALTERATION, NO OUTCROP,
 VERY UNSTABLE (END) @ 583204E 7104544N

• SAME ° AS ABOVE CHERTY (?) OUTCROP **R-17**: 3m SULPHIDE
 VEINLETS, SULFUR SMELL

AUG 11 2000 (4 CARIBOUS ACROSS (VERY RAINY) A.M.
 CAMP)

• GOAL: PROSPECT BARITE DEPOSIT ON CLAIMS 1 & 2

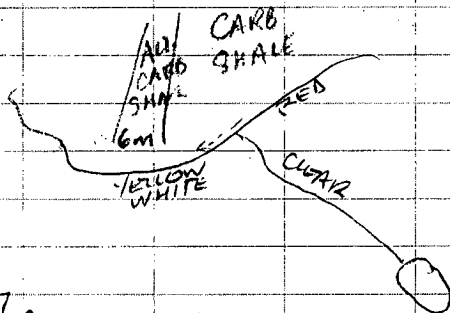
• ON CLAIM 2, SCREE SLOPE (584948E 7103838N) CARBONAC.
 SHALE W/ RED ALTER. FLOATS OF SANDST., DLMT. W/ MIN STAINING

BACK TO STREAM 2: ALTERATION IN THE STREAM (RED)

BEGINS EXACTLY @ 583778E 7104537N. ON N SLOPE. ENTIRE
 SLOPE ABOVE IS CARB. SHALE, BROKEN/PULVERISED. THE
 RED COATING, 15 ≈ 1mm THICK ON SHALE IN STREAMBED

STREAMBED TURNS FROM RED TO WHITER YELLOW

@ CONFLUENCE OF SIM. CREEK (S) N 583732E 7104555N



→ S-07 ROLL. CARB. SHALE WITH GREY/RED TINT, ABOVE
AREA WHERE STREAM TURNS YELLOW

- PIC 1 YELLOW SAND ON STREAM 2 583747E 7104677N
IN CARB. SHALE SOURCE → R-18

→ R-19 583757E 7104735N DARK GREY BARIITE FLOAT
@ TOP OF BIG WATERFALLS (BL PICTURE). V. STRONG
SULPHIDE SMELL.

AUG 12 2000

FOG + RAIN

1-GRIZZLY SINGLE ACROSS CAMP

GOAL: STREAM SAMPLE STEWART RIVER DRAINAGE
STREAMS @ CLAIMS 1 + 2, AND PROSPECT ASSOCIATED

OUTCROPS

SAMPLE #	COLOUR SAMPLE	CONTENT SAMPLE	STREAM WIDTH (m)	(UTM) COORDINATES
→ 5-08	MAKOOON	MOSTLY MAKOOON SHALE GIBBERIS	1	584663E 7103938N
→ 5-09	RED	FINE ORG. THROUGHOUT SIL. SHALE	1	584777E 7104075N

NOTES: FERRICRETE KILL ZONE STRIKE, DIP UNAV. - ALL SHIST,
GOST ARE ACCRETED (PREVIOUSLY SAMPLED)

→ 5-10	GR-BROWN	SHIST/SHALE DETREIS	0.5	585115E 7104191N
→ 5-11	GR-BK	"	1	585426E 7104582N

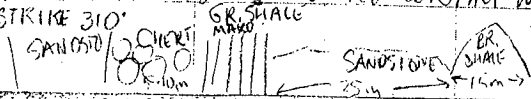
AUG 13 2000

COMPLETELY SOCKED IN, RAIN + DUST ALL DAY

GOAL: TO SAMPLE INT. FERREL. NE DRAINAGE & PROSPECT
ASSOCIATED OUTCROPS.

① 585284E 7105184N SHALE OUTCROP 15m W DIAM. SLIGHTLY
DIP 80° STRIKE 310°

② 585399E 7105218 GR. SHALE CONTACT W/ SANDSTONE
DIP 90° STRIKE 310°



NO. 312

COMMENTS

5-08 → STREAMBED: 35% MAKOOON SHALE, 65% SIL. DOL. W/ QTZITE VFN.

@ 12m N OF 5-08 ALT. SCREE (RED) 10m H DUMP

@ 508 OUTCROP 8m H X 10m W SPAR DOL.?

5-09 → SB: 50% GR + MAK. SHALE QTZITE, SANDSTONE; BED
SUBTLY PPT. RED.

5-10 → SB SAME AS 508

5-11 → SB SAME AS 5-10, FOR OUTCROP DETAILS, SEE R-07.

Aug 13 2000 (cont'd) THEN CHEST TALLIES OVER 10m W

@ 585435E 7105259N, SANDST W MULTI ORK. QUARZITE VFN (1" W)
DIR 30° STRIKE 20°

@ 585318E 7105030N BR. SHALE OUTCROP DIP: 19° STRIKE
350°, SLIGHTLY ALTERED RED, 10m LONG X 2m THICK, OVERLOOKS

SHIMTAIUS 50° STEEP, 25m HIGH, 50m LONG

U.S. GEOLOGICAL SURVEY, TACOMA, WA 98401-1017
WWW.ITERRASTRAPH.COOP

@ 585 293 E 7105029 SMALL SANDSTONE TALLUS 20' x 45' H
W/ MANG STAINING, SOME MICA (5%) THROUGHOUT

STREAM BEDS

SAMPLE	COLOUR	CONTENT	STREAM WIDTH	COORDINATES
S-12	GREY	SILT/SAND SDST PEBBS	10cm	585375 E 7104879N
S-13	BR	SHALE PEBBS SILT 10% ORG	0.5m	585680 E 7104793N
S-14	GR-BR	SHALE PEBBS SDST /SILT	1.3 m	585685 E 7104691N
S-15	GR	FINE SHALE, SAND 15% ORG	2m	585920 E 7104794N

R-20 584005E 7105134N CALC-LIKE VENTING ON DLAT.
VERY HEAVY, SUFFICIENT SULFUR SMELL. OUTLETOP 10m \Rightarrow ,
3m \downarrow

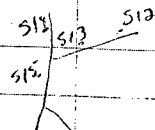
ALL 14 2000 VERY HARD RAIN, DAY+NIGHT, COMPLETELY SOCKED IN, GUSTY WINDS, COLD. SUN FOR 10 MINUTES.

GOAL: ORGAN. SAMPLES, DRAW UP MAPS OF TRAVERSE;

P.M. PROSPECT WNW RIDGE FROM CAMP (\approx 300m)

S-16 ACCRETED RED/ORANGE SOIL; ENV. IS SDST AND 15m SW,
RED SHALE SCREE; SAMPLE IS SILICIOUS 583085 E 7105001
 \approx 12' DEEP

NO. 312



COMMENTS

- S-12 AREA WHERE STREAM STARTS RUNNING ON STEEP SLOPE 38'
@ 50' ST. 270' SANDSTONE 25m ALONG STREAM DULCROPPHY
5m H. 585508 7104786
- S-13 SB: MIXED QTZTE, GR. SHALE, SDST COBBLES
- S-14 ON KILL ZONE/STREAM, SHALE PEBBS W/ 80% SDST / QTZTE
- S-15 SANDST. 80%, 20% SHALE

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11 PARSONS DRIVE, COONA, WA 6004
www.parsonsj.com.au

S-17 FLOATS AROUND 95% SDST, 5% MAROON SHALE. SOIL
TOP 5cm MAROON, 5cm LOWER BR + REDDISH ORANGE
@ 25cm. SAMPLED @ 25cm. 583560 E 7104931N

R-21 583624 E 710509 N QTZTE VEIN W/ Ca? Fe? Mn(BR); ALT. RED @
5cm OUTER RIM. AFTER PULVERISE GR SIL. SDST. WITH
QTZTE VEIN. METAL SHEET IN QTZTE \Rightarrow +RED
STAINING.

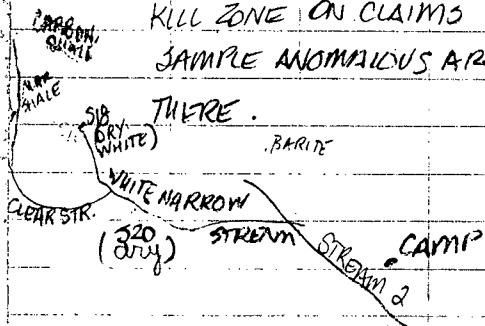
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AUG 15 2000

- LOTS OF PTARMIGAN
- 2 CARIBOU ON BACK RIDGE
- Oc, OVERCAST, W/ SHORT SUNNY BREAKS

GOAL: CONDUCT SOIL SAMPLING OVER A 200 x 250m @ 50m SPAC.

GRID COVERING BARITE SHOWING AND
KILL ZONE ON CLAIMS 1+2. (MAYBE INFILL
SAMPLE ANOMALOUS AREAS BETWEEN CAMP +
THERE.



5718 TAKEN @ 24" + W/ ANGER 583854 7104768N. A FINE
WHITE PPT COVERS SURFACE. NO OUTCROP PRESENT BESIDES
CARB. SHALE RIDGE, 150m S. SOIL GREY WITH SHALIC REBS +
SOFT. 5% ORC.

→ MARBON SHALE DIP 68° STRIKE 288°. STREAM MAY BE CONTACT

BETWEEN MAR + CAMP. SNALG? 583927E 7104737N

→ CARB. SHALE (W/ SOME RED STAINING) STRIKE 392° DIP 62°

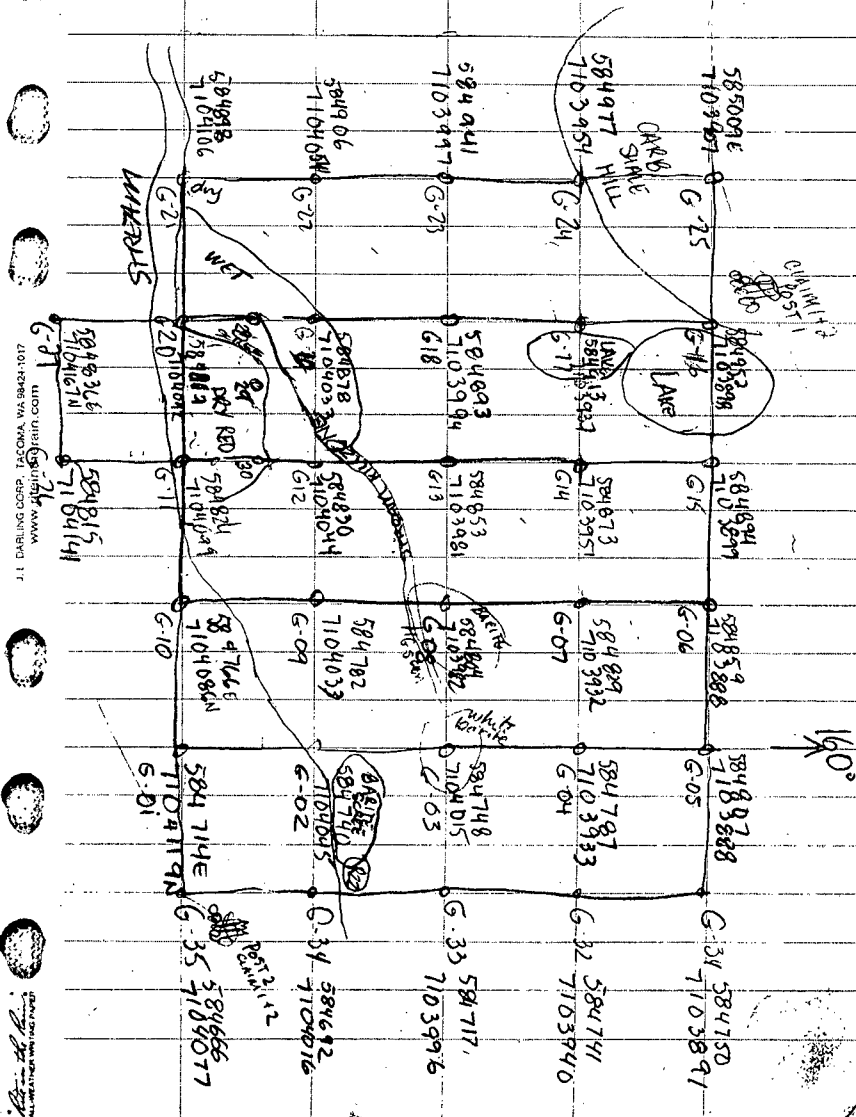
ON S SIDE OF STREAM ≈ 35m @ TOP OF HILL

584020 7104713; LAST REMAINING 100m TO TOP

OF RIDGE MIX VEG + SNOW @ OUTCROP.

(584709...7104094)

SOIL GRID @ CLAIM 1 + 2



G-01 SHALE LAYER 2cm THICK @ 20", BR. EXCEPT FOR SHALE (GR)

NO OUTCROP

G-02 VERY DR. BR. 8' FROM STREAM. 10% ORG, NO PEBBS @ 24"

G-03 @ 24" DEEP; CHL SHALE PEBBS TAKEN OUT

G-04 @ 20" DEEP; MAROON COLOUR, SILTY, THIN @ 25" CARB. SHALE PEBBS.

G-05 @ 28" DEEP; BR, THAN GR W/ CARB. SHALE FLAKES @ 18" +

G-06 @ 35" DEPTH, GR-BR, THAN GREY OVER 3" @ 32" +. MIDDLE OF MUD BOIL, + SOLIFLX, SOME RED STAINED SDST COB @ SURFACE

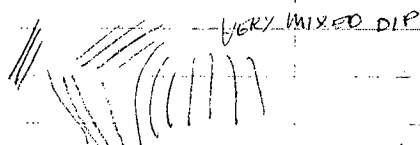
G-07 @ 40" (HIT GOPHER HOLE); BR; SOME GR @ 2-30"; GOPHER HOLE DUG OUTS = SOIL, SILT, MAX 1 CARB. SHALE; NO OUTCROP

G-08 @ 15", LOTS OF PEBBS! LGT. BR, 1m FROM Hg? ON BA HILL (HILL 2.6m HIGH X 35m CIRC). SOME BA PEBBS + SDST + QTZITE + SH

G-09 @ 25" DEPTH; REDDISH-BR SILT W/ SOME MAR SHALE PEBBS

G-10 @ 20" DEPTH; BR, 5% ORG; SOME QTZITE PEBBS

G-11 @ 15" DEPTH; RED; CHL SHALE OUTCROP 5m DIP @ 85-90° STRIKE 298



G-26 @ 12" DEPTH; BR W/ CHL SHALE PEBBS; ALL ORG/VEG. ON SURFACE NO OUTCROP; 1 SM. QTZITE PEB, RUSTY, RETOILED & FORESTED

G-27 REDDISH-BR. W/ SM QTZITE PEBBS MARK. SHALE; 10" DEEP; NO OUTCROP, FORESTED

G-12 @ 8" DEPTH; REDDISH-BRN W/ SM. QTZITE + CHL SHALE PEBBS

G-13 @ 20" DEPTH; VEG. COVERED; 10m N, THE STREAM LEADING TO KILZONE STAKES; BEGINS IN BETWEEN BOTH BARKITE HILLS; BR.

NO. 2

G-14 @ 10" DEPTH, BR W/ SPARSE ORANGE, CRUMBLED FERRICRETE MUD BOILS = 2" DIAM EACH. SLIGHT SOLIFLX

G-15 @ 20" DEPTH, BR W/ ORANGE PAINTING; SM. SDST PEBBS + CHL SHALE

G-16 @ 10" DEPTH, IN WATER (LAKE) SILTY W/ CARB. SHALE PEBBS; AT BASE OF HILL (BROKEN CARB. SHALE-SCREE) WHERE POST #2 ^{CLAIM} IS

G-17 @ 8" DEPTH, GREY W/ CARB. SHALE PEBBS

G-18 @ 15" DEPTH; TRAILS OF MUD BOILS, 30% MAR SHALE; 30% RED STAINED SDST; 30% SILT; 10% QTZITE

G-19 FERRICRETE @ STREAM; STREAM 2m W; RED W/ BLACK; 10" DEEP

G-20 @ MAIN STREAM; RED; 10" DEPTH; FERRICRETE BOULDERS

ALL AROUND.

AUG 16 2000

OVERCAST, LIGHT FLURRIES, 0-2°C

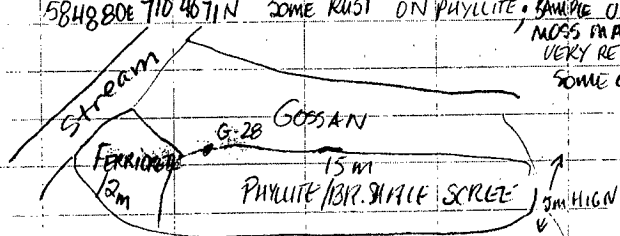
GOAL: COMPLETE SOIL GRID @ CLAIMS 1 + 2. START TRENCH @ BARKITE SHOWING ON CLAIM 3. ROCK SAMPLE IN BETWEEN 1 + 3??

G-30 584819E 710407S. BR. SOME SH PEBBS; 10" DEPTH
fairly fine on top

G-29 DR BR. CARB. SH. PEBBS THROUGHOUT; 584819. 710405S.

G-28 @ EDGE OF WET GOSSAN + BR. SHALE/PHYLLITE SCREE = 15m LONG/6m H.

584808E 710407N SOME RUST ON PHYLLITE. SAMPLE QUICK MOSS MATS, VERY RED/ORANGE SOME ORG!



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4 Link Street, Seattle, WA 98101

G-21 RED + BR. SILT; 20" DEEP; 10m N OF GOSSAN; VEG. 22 MOSS
+ SALMON BERRY (ACID SOIL??)

G-22 GR/BR SOIL; 24" DEEP; SOST IN VICINITY; QUARTZ PEBS
IN SAMPLE

G-23 BR-GR; SOST FLOATS AROUND; 10" DEPTH; NO
OUTCROP; SIM. SIL. PEBS THRU-OUT, FROM 45cm WIDE MUDBOIL

G-24 25" DEPTH, GR; 5m AWAY FROM BASE OF CARB. SH.
HILL WHERE POST 1, CLAIM 1 + 2 IS.

G-25 DR. GR; CARB. SHALE PEBS THROUGHOUT; 1/2 WAY UP
TO CLAIM POSTS

G-31 BR; 25" DEEP; SIM. CHL. SH + MAR. SHALE PEBS THROUGHOUT;
10% ORGANICS, SIM. MUDBOILS, VEGETATED IN RICE PATTY FORM. SOIL
SLOPE

G-32 VERY WET GROUND; BR-GR SILT; FEW PEBS; NO OUTCROP; 28" DE

G-33 GR-BR; W/CARB. SHALE T.O., SOME SOST ON SCREE; DEPTH
14"; BOTTOM OF A VEG. SCREE SLOPE W/ OVERGROWN MUDBOILS.

G-34 BR; 24" DEPTH; SIM. PEBS OF MAR. SHALE, SOST, & QUARTZ.

R-22 BA @ STREAM, 5m ABOVE; STRONG SULFUR SMELL; FROM
584731E 7104020N

G-35 BR; SIM. PEBS PYL OR SH; 20" DEPTH

S-19 SOIL SAMPLE TAKEN ON TOP OF RIDGE OF CARB. SURFACE,
SOMEWHAT BLEACHED; SAMPLE FROM RED-STAINED
AREA @ 10cm DEPTH @ 584122 7104532

NO. 312

S-20 @ 583828 7104810; SAMPLED THE PPT ON STREAM'S
EDGES, WHITE; LOOKS LIKE HYDROZINCITE?

AUG 17 2000 CLOUDY W/ SUNNY BREAKS, $\approx 5^{\circ}\text{C}$

•• TRY & FIND SOURCE OF BAKITE ON CLAIM 3

SCREE IS 30 X 65m; OUTER EDGES APPEAR TO BE MIXED
SOST, 50% RED-STAINED; LEDGE ABOVE IS 30m LONG X
10m WIDE. LARGE MUD BOIL, 1.5m \leftrightarrow , WILL BE DUG
OUT & IF NECESSARY A LARGER TRENCH WILL BE DUG
FROM THURT; OVERBURDEN MAY BE TOO HIGH, THOUGH, SO
SOIL SAMPLES WILL BE TAKEN @ VARIOUS DEPTHS; A
SECOND MUD BOIL WILL THEN BE DUG FOR SIMILAR
PURPOSE.

SCREE/KILL ZONE HAS LITTLE OR NO VEG (<5%) WHERE
BA MAKES UP 75%+ OF FLOAT; VEG. INCREASES
AS BA: CARB. SH. DECREASES, BELOW 65m FROM TOP
WHERE SCREE CONTINUES FOR AN EXTRA 15m BUT
WITH BA DECREASING TO $\approx 5\%$ OR LESS. VEG. INCLUDES
MOSS BERRY + CASSIOPIA.

MUDBOIL I

584413E 7104386N

M-01

@ 12" DEPTH; OCHRE-COLOURED SILT; SIM. CHL + MAR. SHALE PEBS;

M-02

@ 4" DEPTH; ? TOP OF OUTCROP?? GREENISH-YELLOW, SLIGHT

SULPHIDE SMELL; NO PEBS; VERY FINE CLAY/SILT

M-03

SAME AS ABOVE, 1m E OF M-02. \approx 4.5' DEPTH

AUG 18 2000

∴ SAME AS 17th; PROSPECT IN BETWEEN CAMP + BARITE SHOWING

S-21 STREAM RUNNING NE FROM CAMP RIDGE; MIXTURE MAH. SHALE; SDST; QRTZ; @ 583633 E 7104632 N
→ SAMPLE "O LAKE 1": @ 584044 E 7104414 N IN CARB. SHALE SCREE

R-23 SMALL SCREE SLOPE 15x10m 95% CARB. SHALE; 3% BA COBBLES; 2% SDST. FLOATS; BA-COBBLE; STRONG SULFUR SMELL; HEAVY 584288 E 7104373 N

PROSPECTED FROM M-03 TO TOP: ALL SILICIOUS DUMT + SDST.

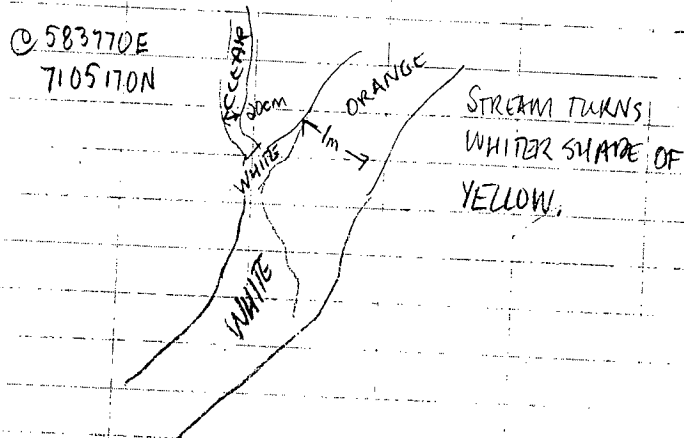
R-24 -- SDST W/ RED STAINING (TRY & SEE IF IT RUNS!)
584453 7104585

AUG 19 2000

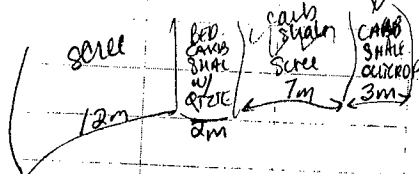
∴ PROSPECT + SAMPLING BETWEEN 12 VERTICALLY CAMP + BARITE

NO. 314

S-22 583786 7104986; SM PILE OF SAND/SILT, COLLECTED IN EDDY IN MIDDLE OF STREAM; STREAM 1.2m WIDE; SED. SITTING ON TOP OF ORANGE/WHITE PPT.
60% SAND 30% SILT 5% SHALE PEBS 5% RUSBY PPT.

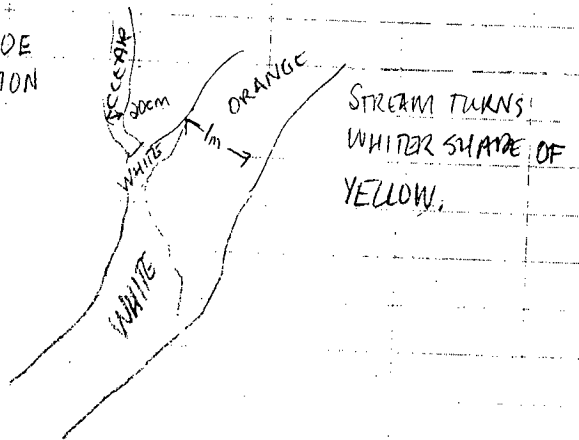


R-25 CARB. SHALE @ 583757 7104725 STRIKE S18
DIP: 64°; SOME STAINED RED; OUTCROP 3m x 5m

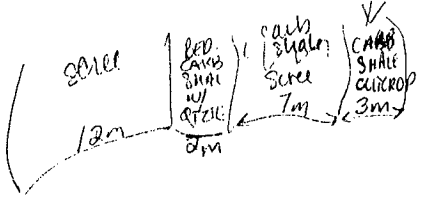


5-22 583786 7104986; 5M PILE OF SAND/SILT, COLLECTED IN EDGY IN MIDDLE OF STREAM; STREAM 1.2m WIDE; BED SITTING ON TOP OF ORANGE/WHITE PPT. 60% SAND 30% SILT 0% SMALL PEBS 5% RUSTY PPT.

© 583770E 7105170N



R-25 CARB SHALE @ 583757 7104725 STRIKE S18 DIP: 64°; SOME STAINED RED; OUTCROP 3m X 5m



SULPHIDE SMELL; NO PEBS; VERY FINE CLAY/SILT

M-03

SAME AS ABOVE, 1m E OF M-02. ~ 4.5' DEPTH

AUG 18 2000

∴ SAME AS 17th; PROSPECT IN BETWEEN CAMP + BARITE SHOWING

5-21

STREAM RUNNING NE FROM CAMP RIDGE; MIXTURE MAIN SHALE; SDST; QZITE; © 583633 E 7104632 N → SAMPLE "O LAKE 1": © 584044 E 7104414 N IN CARB. SHALE SCREE

R-23

SMALL SCREE SLOPE 15 X 10m. 95% CARB. SHALE; 3% BA COBBLES; 2% SDST. FLOATS; BA-COBBLE; STRONG SULFUR SMELL, HEAVY 584288 E 7104373 N.

PROSPECTED FROM M-03 TO TOP; ALL SILICIOUS QZIT + SDST.

R-24

- SDST W/ RED STAINING (TRY & SEE IF IT RUNS!) 584453 7104585

AUG 19 2000

∴ PROSPECT + SIMILAR STRATA 2 BETWEEN CAMP + BARITE

R-15 ??? / R-06 ???

R-26 @ R-11. QUARTZ FLOAT W/ SULPHUR SMELLS
MINOR VISIBLE GA + RED? CINNABAR?

R-27 CARB. SUITE FROM E MOUNTAIN
RIDGE

ROCKS

R-01 TO R-27

R-03, R-04, R-10, R-11, R-15, R-19, R-22, R-23
R-26

SOIL

G-01 to G-35

M-01 to M-02

S-01 to S-23

NORTHERN ANALYTICAL LAB

105 COPPER RD

667-6900