

YEIP  
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2000

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2000-058

**Report covering work done on YMIP # 0058**

**Prospecting Report**

on

Claims: **CUB # 5 , YC17299 to CUB #14 , YC17308**  
**CUB #15 , YC20452 to CUB #20 , YC20457**  
**BEAR CLAW # 1 , YC20458 to BEAR CLAW # 6 , YC20463**  
on NTS Map Sheet 115-0-3 between UTM coordinates  
07V 0583000 E            6988000 N  
0600000 E            6996000 N  
in the **Thistle Creek** area

&

Claims: **WOLF#23 , YC20245 to WOLF#42 , YC20264**  
on NTS Map Sheet 115-J-16, 115-01, 115-02, 115-J-15  
between UTM coordinates  
07V 0624000 E            6984500 N  
0631500 E            6989000 N  
in the **Mariposa Creek** area

&

on NTS Map Sheet 115-0-11 (no claims at this point in time)  
between UTM coordinates  
07V 0597000 E            7063500 N  
0598000 E            7064500 N  
in the **Bishop Cr., Indian River** area

&

on NTS Map Sheet 115-H-16 (no claims at this time)  
UTM coordinates  
08V 0425450 E            6857950 N  
in the **Florence Creek** area

by : **Tom Morgan**  
**Vern Matkovich**

**Work performed between July 18 and Nov. 15, 2000**

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## **Introduction**

During the 2000 YMIP# 0058 program four areas were prospected, (\*) for a total of thirty-one days. The first site visited was Florence Creek on 115-H-16 where an aerial survey of the prospective area as performed, and a hand sluiced concentrate of heavy minerals from the Florence Creek bench gravels was obtained. This was to check for PGEs and their associated minerals.

The next area was Mariposa Creek, 115-J-16, where we checked for extensions off our WOLF claim block of " POGO " style Au mineralization. The focus was along the linear mag. high extending S.E. along the left limit ridge of Mariposa Creek. Soil samples and some rock samples were taken here, and a visual inspection of the rock units was performed.

The other " POGO " style target that was followed up on was the Thistle Creek target. Work here was focused around our BEAR claim block on 115-0-3 . Sampling concentrated on areas that had been exposed though road building and placer mining activities, extending off the present claim block. Soil and rock samples were collected in and around visually interesting sites.

The last raw prospect on which work was done was on the Indian River dunite unit, 115-0-11. Hand trenches were dug and chip samples of fresh ultramafics were taken to determine if PGEs or layering were present in this dunite rock unit.

(\*) starting July 18 and ending Nov. 2

## Location and Access

**Thistle Creek** is located approximately 130km south of Dawson City, and is in the Dawson Mining District, map sheet 115-0-3. Access to the Thistle Creek prospect was achieved by flying to the Thistle Creek airstrip. UTM location of 07V 0586750

6995450

From here the prospects were accessed by placer mining roads that go east and west along Thistle Creek and south, up Blueberry Creek and over to Kirkman Creek. The road system connects with the upper end of Thistle, Ballarat and Kirkman Creeks. The UTM readings for the centers of the 3 main prospecting areas are :

07V 0584450  
6994150

07V 0586600  
6991250

07V 0599000  
6989500

**Mariposa Creek** prospect is located on the corner of map sheets 115-J-15, 115-J-16, 115-0-1 and 115-0-2 in the Dawson Mining District. Access to the prospecting area is by flying to the Scroggie Creek airstrip near Birdman's placer mining operation, UTM reading 07V 0622100

6990750

The old mining road along Scroggie Creek is then followed 4km upstream to Butterworth's old mining camp by the mouth of Mariposa Creek. This is where we based our operation. From here the road continues up Mariposa Creek another 2.5km to where our recent **WOLF CLAIMS** start at UTM 07V 0625150

6987550

The prospecting covered the Mariposa Creek watershed area and the ridge over into Carter Creek

**The Indian River Dunite** prospect is located approximately 45km by road south and east from Dawson City. It is on map sheet 115-0-11 in the Dawson Mining District. The prospect is accessed from Dawson City by Hunker or Bonanza Creek roads to Quartz Creek. Quartz Creek road is followed downstream to the mouth as far as the old sunken dredge. Here the road turns upstream along the Indian River and is followed approximately 9km to the Indian River Hay Farm. From here we traveled by 4 wheeled ATV a further 2km to Bishop Creek. This is at the edge of the dunite body identified in hand pit #4

UTM reading 07V 0597904  
7064439

**The Florence Creek Platinum** prospect is located approximately 40km south of Carmacks (20 min by helicopter) or 30km north west of Twin Lakes (15 min. by helicopter). There is poor road access to the Florence Creek area. It begins at approximately km 10 on the Mount Nansen road and goes south for about 45km on a very bad trail. This puts you in the placer mining area of Florence Creek. This area is on the 115-H-16 map sheet in the Whitehorse Mining District

UTM reading 08V 0425450  
6857950

**Claims staked during YMIP 0058 program - 2000**

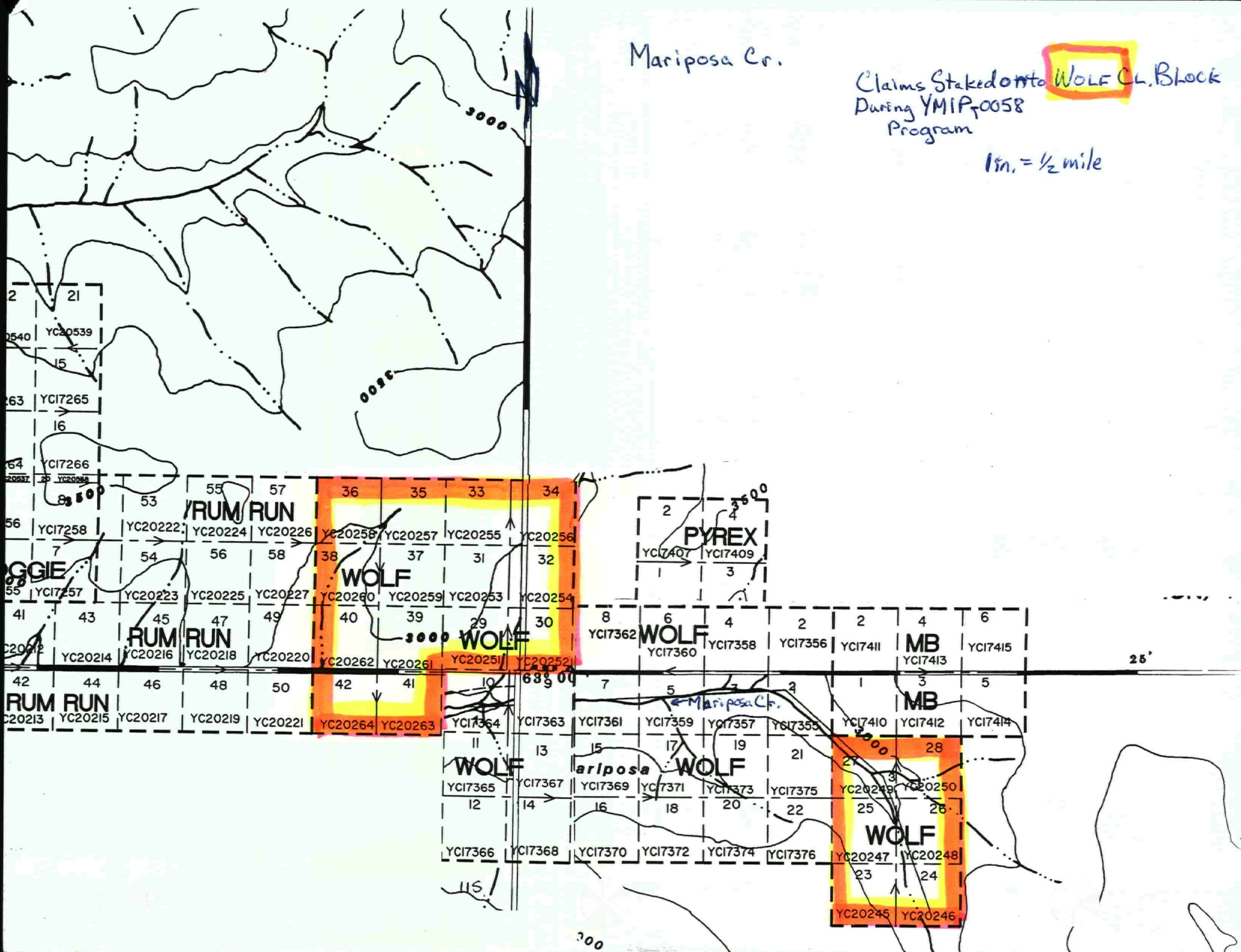
<u>Claim Name</u>	<u>Grant No.</u>	<u>Registered Owner</u>	<u>% Owned</u>	<u>NTS#s</u>
CUB 5-14	YC17299-YC17308	Carl J Jonas	25%	115-0-3
		Stuart Schmidt	25%	
		Tom Morgan	25%	
		Vern Matkovich	25%	
CUB 15-20	YC204552-YC20457	Carl J Jonas	25%	115-0-3
		Stuart Schmidt	25%	
		Tom Morgan	25%	
		Vern Matkovich	25%	
BEAR CLAW 1-6	YC20457-YC20463	Carl J Jonas	25%	115-0-3
		Stuart Schmidt	25%	
		Tom Morgan	25%	
		Vern Matkovich	25%	
WOLF 23-42	YC20245-YC20264	Carl J Jonas	25%	115-0-2
		Stuart Schmidt	25%	115-0-1
		Tom Morgan	25%	115-J-15
		Vern Matkovich	25%	115-J-16

Mariposa Cr.

Claims Staked onto **WOLF CL. Block**  
During YMIP 0058  
Program



1 in. = 1/2 mile





Indian and Northern Affairs Canada  
 Affaires indiennes et du Nord Canada  
 Northern Affairs Program  
 Programme des affaires du Nord

Mineral Rights    Droits miniers

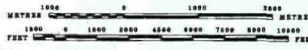
SEE ADJACENT MAP SHEET(S) EDGES  
 FOR ADJOINING MINERAL CLAIMS  
 NOT SHOWN ON THIS MAP

**1150-3  
 QUARTZ**

LATITUDE 47° 00' TO 47° 30'  
 LONGITUDE 129° 00' TO 129° 30'

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

NOV 1, 2000





**NOTE:**  
 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.

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

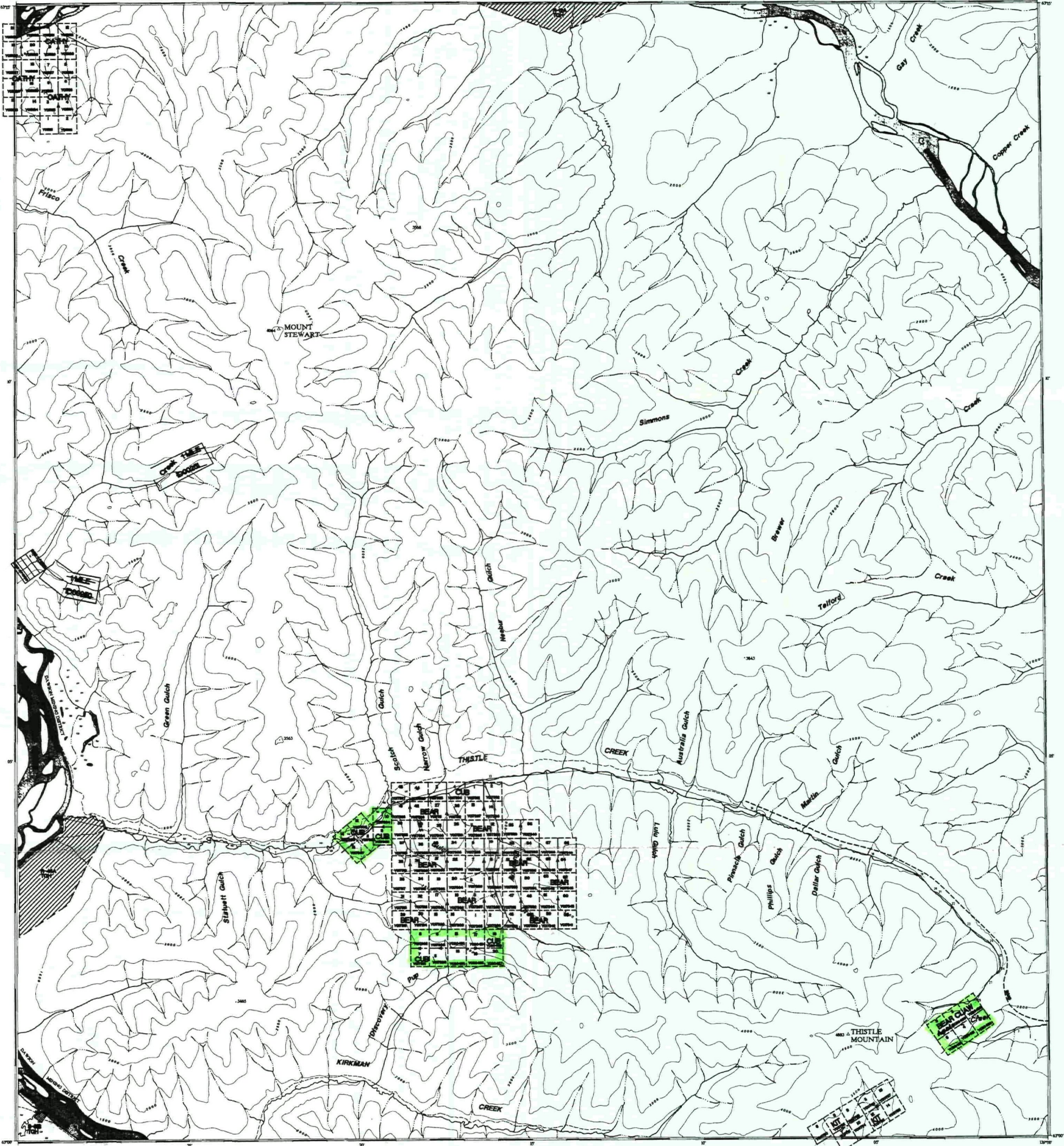
150-5	150-6	150-7
150-4	150-3	150-2
150-1	150-14	150-10

Claims Staked  
 During 2005-8  
 YMIIP Program



DFN (DAWSON FIRST NATION) A.K.A. TRONDEK HMECHIN FIRST NATION

Canada  
 WHITEHORSE/DAWSON MINING DISTRICT



## Summary of work done on YMIP 0058

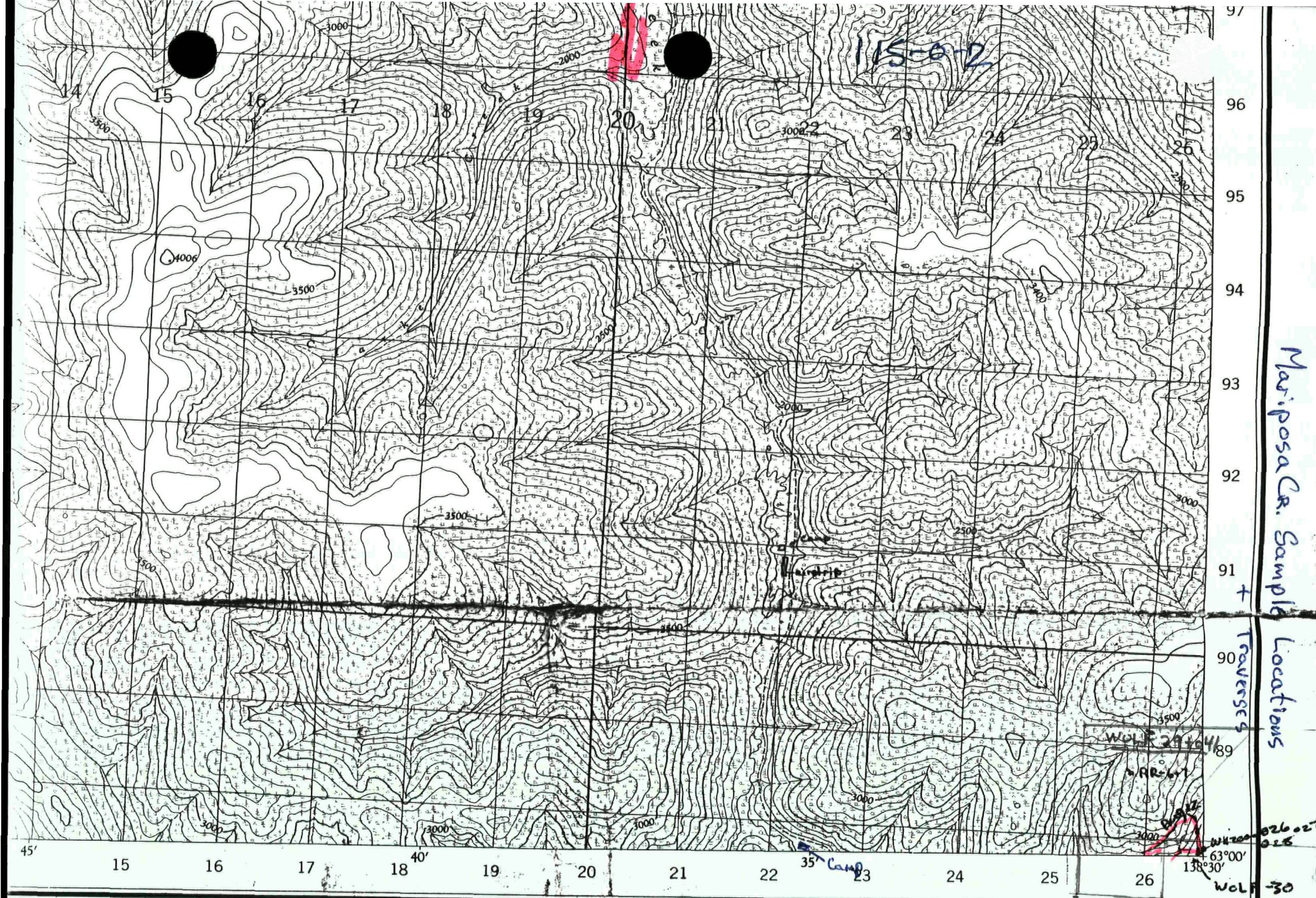
The work program was completed on four properties, under two different model types. The **Thistle Creek** and **Mariposa Creek** prospects were done around small granitic intrusives similar to a **Pogo** style model. The magnetic linear high beside a magnetic low in a metamorphised terrain correlates with this **Pogo** style model. This, with the fact that these two creek sections were the richest placer gold producers of the belt in question added to the theory. The prospecting was done around these claim blocks to see if any anomalies existed outside the areas in question. There was no good mineralization or anomalies found outside the claim blocks. The mineralization seems to be centered on the main claim block on **Thistle Creek** as discovered earlier. Little was determined on **Mariposa Creek**, except that more focus must be put on the ground around the identified intrusive plug. A total of 11 soils, 1 silt, and 7 rock samples were taken outside of the original **Thistle Creek** claim block. Fourteen km of traverses were done while prospecting and collecting these samples. Over 10 days, a total of 15 man/days were spent on the **Thistle Creek** prospect. A total of 7 soils and 1 rock sample were taken outside the original **Mariposa Creek** claim block. Eighteen km of traverses were done while prospecting and collecting these samples. A period of 6 days, a total 12 man/days were spent on the **Mariposa Creek** prospect.

**The Florence Creek and Indian River** dunite projects were platinum prospects. The work done on **Florence Creek** was hand sluicing of bench alluvial material to acquire a concentrate of heavy minerals associated with the platinum. We also did an aerial reconnaissance to the S.E. to see if it was a potential prospecting site in the hard rock. This was done in 3 days, a total of 6 man/days and 1 travel day. Charlie Brown gave Bill LeBarge the concentrate sample to do assay work. (which we are still waiting for!) The **Indian River** dunite at **Bishop Creek** was explored through traverses, hand pits, blasting and chip sampling. Initial samples of concentrate in the dunite material returned values that need to be followed up. A total of 5 hand pits and 6 chip samples were sent in for evaluation. The concentrate sample, which showed minor platinum, could be significant because the upper end of **Montana Creek** has ultramafic bodies 10km upstream from the sample site. The **Bishop Creek** dunite # 1 was anomalous in its high Ni and Cr ppm values. Cr segregation's in these Alaska type dunitites in Russia are known to be PGE ore deposits. These occur in the deeply eroded sections of the dunite, which we have not seen yet, therefor more work must be done on our dunite body. The work was done in 10 days, a total of 15 man/days. Of that, 4 man/days were spent on trail slashing for access to the sample sites.

## Sample Descriptions for Mariposa Cr. Prospect

- WX-2000-016** -Decayed limonitic zone in gneiss. 3m wide zone, sand/clay  
40cm deep. C horizon. UTM 07V 0630031  
6984940
- WX-2000-017** -Decayed limonitic zone in gneiss. 4m wide zone, sandy clay.  
40cm deep. C horizon. UTM 07V 0629253  
6985373
- WX-2000-018** -Decayed volcanic tuff to sheared felsic volcanic. Unit shows for  
100m. 40cm deep(creek cut bank) C horizon.  
UTM 07V 0629248  
6986512
- WR-2000-019** -Hanging wall granite gneiss of 40cm wide quartz vein in creek  
bottom. Chlorite/pyrite alteration. Sample width 30cm.  
UTM 07V 0629406  
6986174
- WR-2000-020** -Felsic granitic dike 20m wide with quartz stringers 1-3cm  
wide. Fairly decayed, sample width of 1m.  
UTM 07V 0629410  
6986152
- WX-2000-021** -Oxidized felsic porphyry, volcanic(basalt ?) with quartz veins  
in  
soil coming down ridge into left limit trib. to Mariposa Cr.  
50cm deep. C horizon. UTM 07V 0628441  
6986951
- WX-2000-022** -Soil 50m upslope from -023. 55cm deep. C horizon.  
UTM 07V 0628361  
6987025
- WX-2000-023** -Soil taken at **WX-2000-006** site.(111 ppb Au) 75cm deep.  
C horizon. (40cm deeper than -006) UTM 07V 0628315  
6987011
- WR-2000-024** -Rock from -023 hole. Limonitic quartz vein.
- WX-2000-025** -Soil taken 50m upslope and 50m W. of -022. UTM 07V 0628356  
6987007
- WX-2000-026** -Soil from side of road cut in decayed white felsic dike material.  
Composite grab over 0-50m, 20cm deep. UTM 07V 0626654  
6987841
- WX-2000-027** -Center of dike, 50-100m. Composite grab over 50m, 20cm deep.
- WX-2000-028** -100-150m of felsic dike, where the western limit is concealed  
by overburden. Strikes across R. L. trib. to the N. W. and  
across Mariposa Cr. to the S. E. where it is covered by  
overburden. UTM 07V 0626583  
6987801

GPS pts. For -025-028 taken at center of sample section



Mariposa Cr. Sample Locations

WOLF CREEK TERRITORY

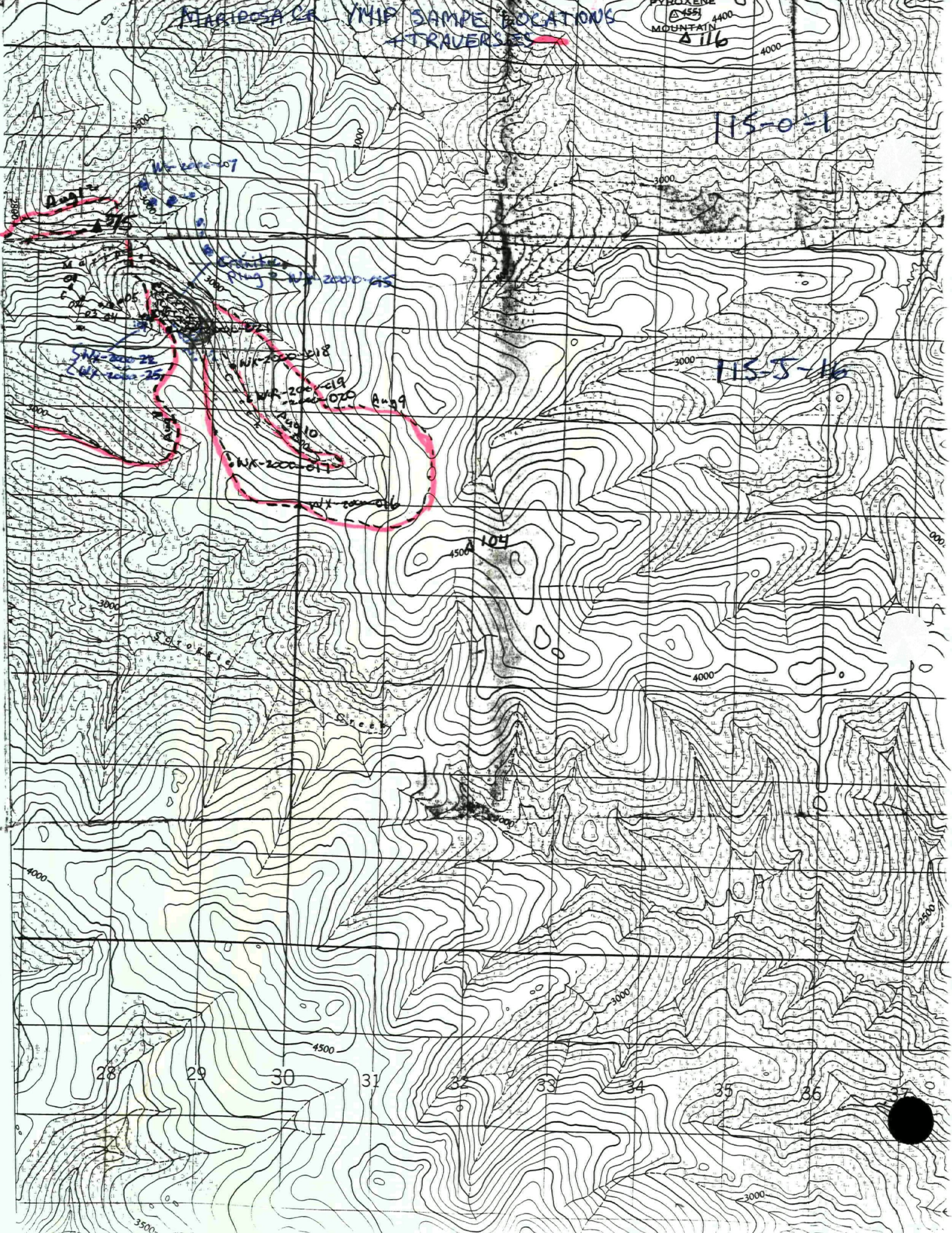
Établie et imprimée par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DES MINES ET DES RELEVÉS TECHNIQUES en 11961, d'après les photographies aériennes prises en 1949 et 1955.

ALABAMA CR. YHIF SAMPLE LOCATIONS  
& TRAVERSES

PYROXENE  
4551  
MOUNTAIN  
4116

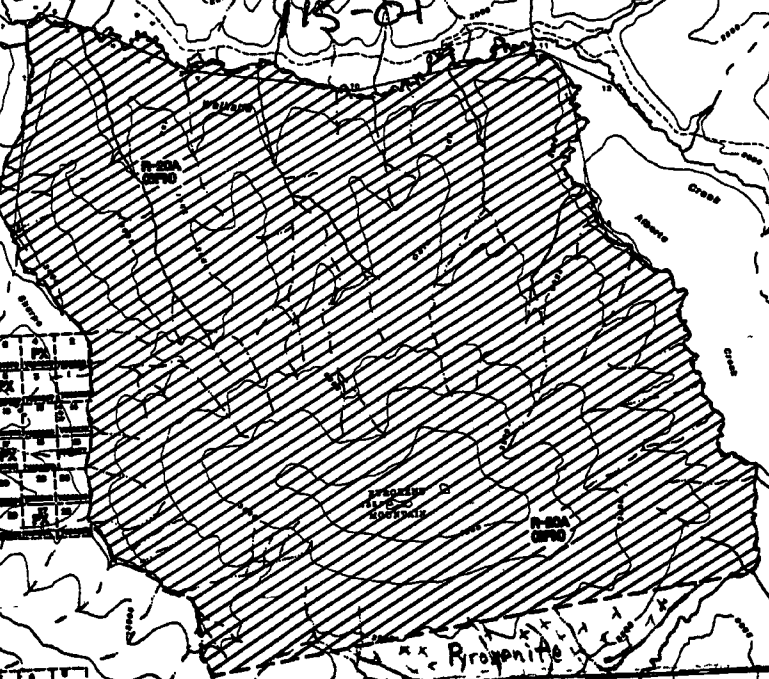
15-0-1

15-5-16



115-012

115-01



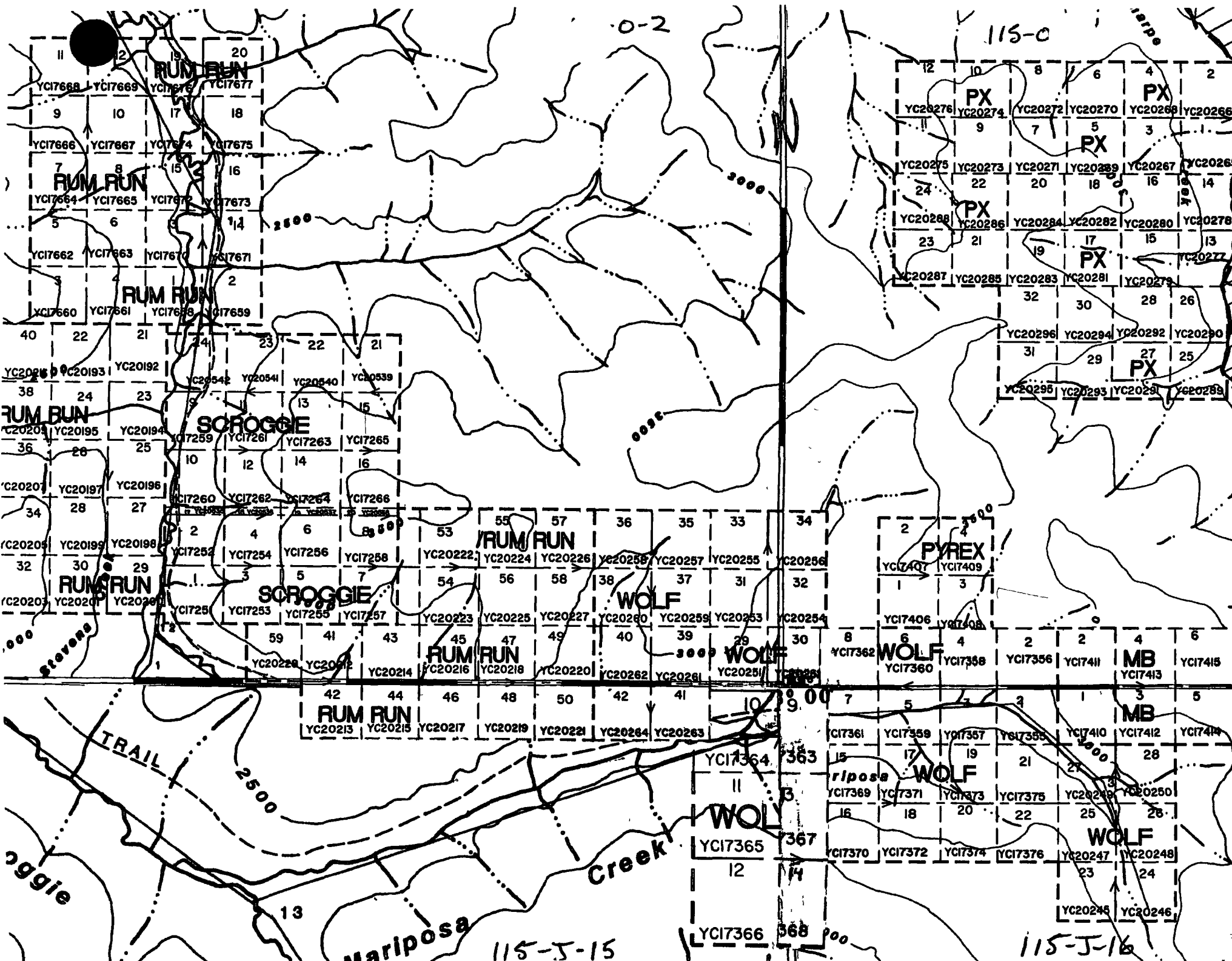
Pyromphite

115-015

115-016

PRESENT CLAIM STATUS MAP

PRESENT CLAIM MAP OF MARIPOSA CR. AREA



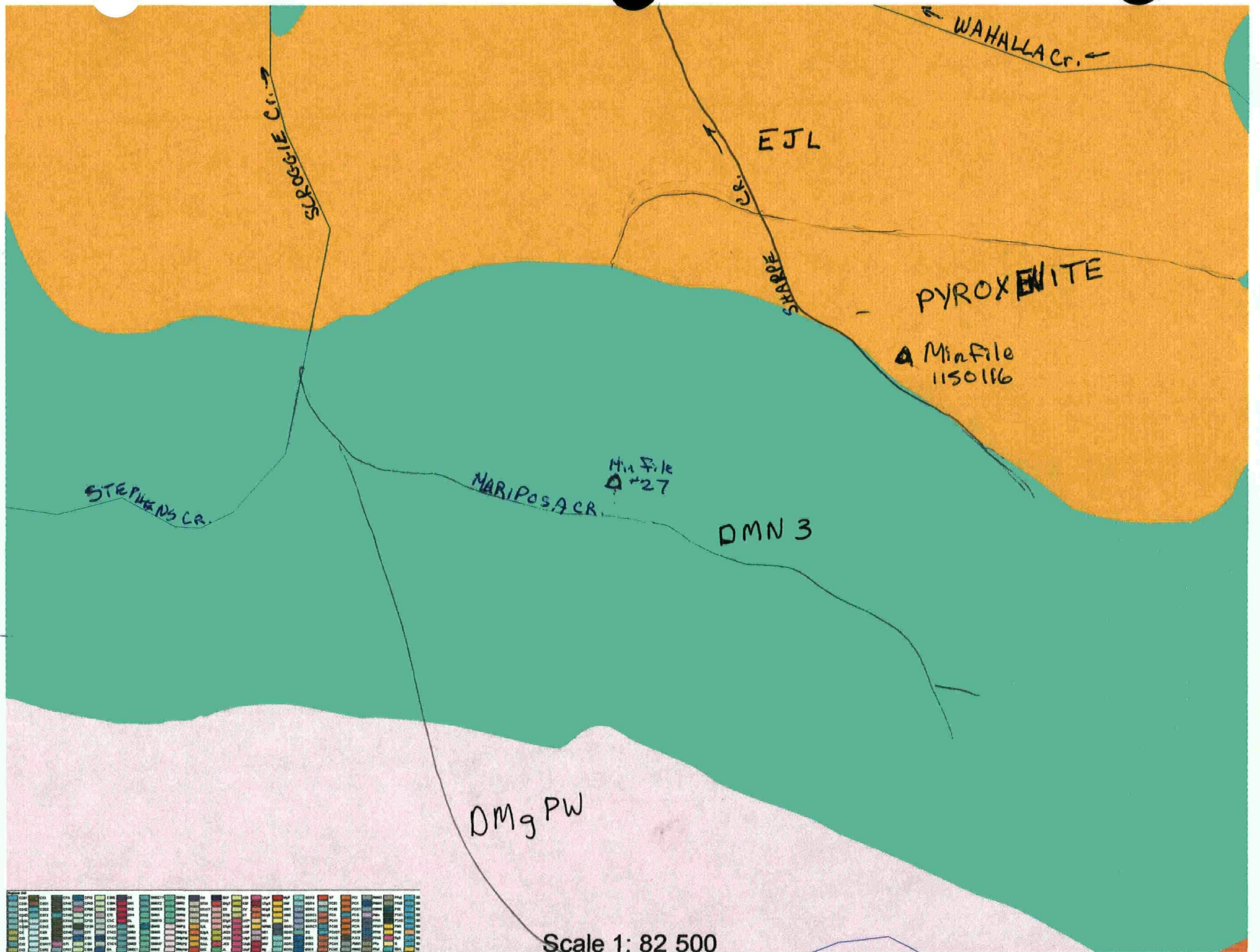
115-J-15

115-J-16

# Table of Results Mariposa Co. Prospecting

	Au ppb	Cu ppm	Pb ppm	Zn ppm
WX-2000-016	15	65	19	75
WX-2000-017	8	15	8	118
WX-2000-018	18	34	23	110
WR-2000-019	6	49	12	55
WR-2000-020	9	10	<	32
WX-2000-021	20	16	21	65
WX-2000-022	30	21	15	63
WX-2000-023	14	27	16	97
WR-2000-024	9	20	7	7
WX-2000-025	15	12	14	83
WX-2000-026	26	86	10	119
WX-2000-027	10	10	4	43
WX-2000-028	49	28	12	129





Scale 1: 82 500

## Regional Legend

- uJKT** massive to thickly bedded chert pebble conglomerate and gritty quartz- chert-feldspar sandstone; interbedded dark grey shale, argillite, siltstone, arkose and coal; at one locality includes red weathering dacite to andesite flows at base (Tantalus)
- uKC1** augite olivine basalt and breccia; hornblende feldspar porphyry andesite and dacite flows; vesicular, augite andesite and trachyte; minor sandy tuff, granite boulder conglomerate, agglomerate and associated epiclastic rocks (Carmacks Gp., Little Ridge Volcanics, Casino Volcanics)
- DMN2** marble (Nasina assem.)
- DMN3** quartzite, micaceous quartzite, quartz muscovite (+/-chlorite; +/-feldspar augen) schist, and minor metaconglomerate and metagrit as in (1), but may locally include significant Nisling Assemblage
- DMqPW** foliated equigranular medium-grained muscovite quartz monzonite; moderately to strongly foliated K-feldspar augen-bearing quartz monzonite to granite gneiss (S. Fiftymile Batholith, Mt. Burnham Orthogneiss,)
- DMgPW** foliated medium grained, homogenous biotite granite gneiss to biotite or hornblende granodiorite gneiss; massive to strongly foliated dioritic to granodioritic gneiss; includes interfoliated amphibolite, quartz-mica schist and phyllite (Selwyn Gneiss, Pelly Gneiss, N. Fiftymile Batholith, Moose Creek Orthogneiss)
- CPA4** dunite, peridotite, gabbro, pyroxenite, harburgite and minor diorite, hornblende and diabase; serpentinite, orange weathering quartz carbonate rock with minor green chromian muscovite, talc-carbonate schist and carbonized ultramafic rocks
- CPK1** tan to rusty and black weathering muscovite and/or chloritic quartzite and quartz-muscovite-chlorite schist; quartz and/or feldspar augen-bearing quartz-muscovite (+/-chlorite) schist; includes augen gneiss and amphibolite (Kondike Schist)
- PqS** moderately to strongly foliated biotite quartz monzonite gneiss, the Sulphur Creek Orthogneiss; coarse grained, homogeneous, hornblende-biotite-bearing granite, granodiorite and quartz -monzonite with narrow foliated and mylonitic zones of the Ram Stock (Sulphur Creek Orthogneiss, Ram Stock)
- ETqN** leucocratic, biotite granite; miarolitic alaskite; saccharoidal textured, mafic-poor biotite granite; biotite-hornblende granite to leucocratic granodiorite with sparse, white, alkali feldspar phenocrysts; biotite quartz monzonite (Nisling Range Suite, Nisling Range Alaskite, Coffee Creek Granite, Annie Ned Granite)
- EJL** mostly felsic granite rocks (q) but locally grading to syenitic (y)
- mKqW** biotite-hornblende granodiorite, hornblende quartz diorite and hornblende diorite; leucocratic, biotite hornblende granodiorite locally with sparse grey and pink potassium feldspar phenocrysts (Whitehorse Suite, Casino granodiorite, McClintock granodiorite, Nisling Range granodiorite)
- TLr** Little Ridge Volcanics; brown, purple and green basalt and flow breccia

## **Conclusions and Recommendations - Mariposa Creek**

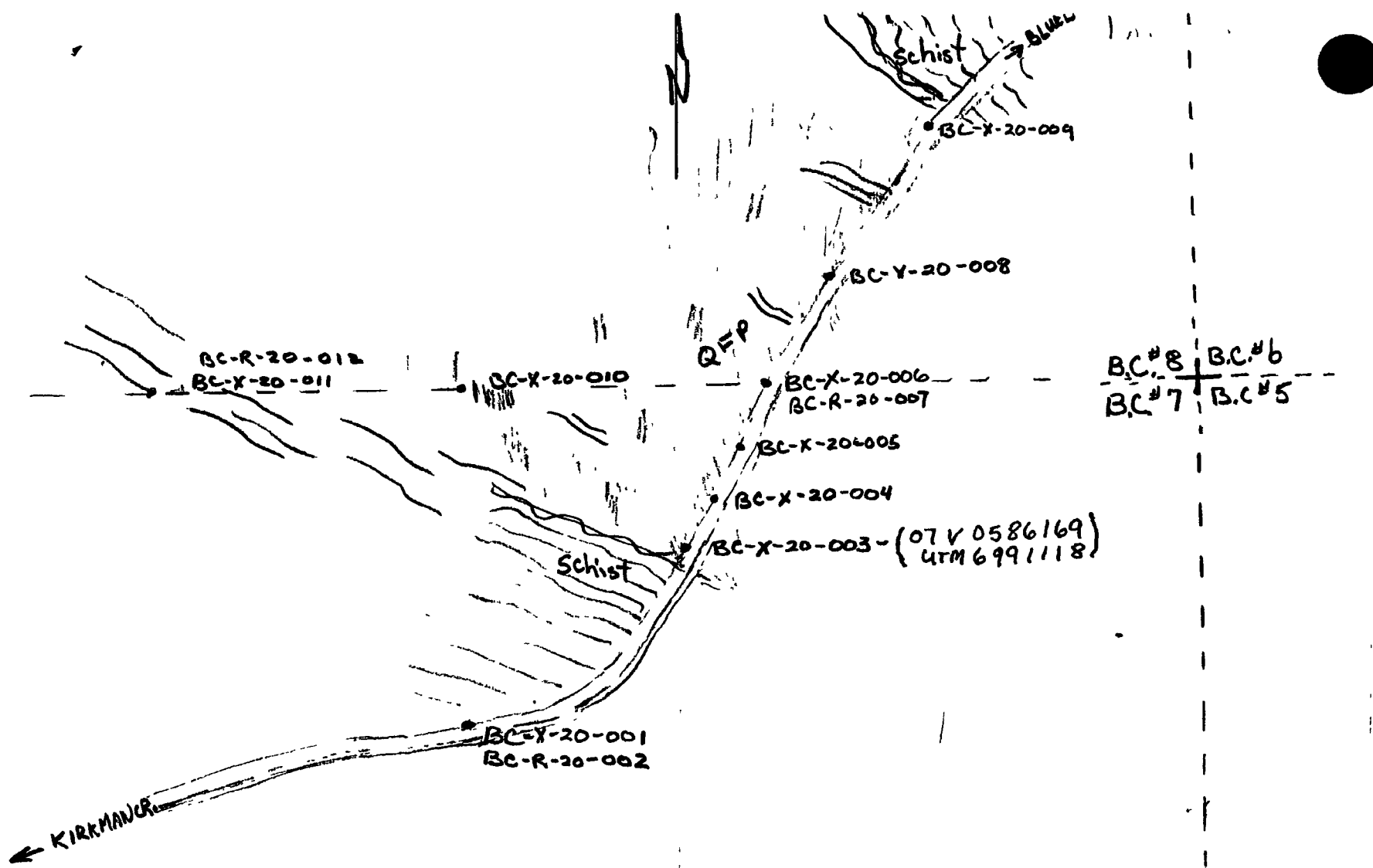
The work done outside the claim block on the **Mariposa Creek** prospect showed a few minor anomalies. Soil samples taken on the right limit side of **Mariposa Creek**, in a felsic dike that trends N.W.-S.E. across the road, had Au values from 26ppb in **WX-2000-026** to 49ppb in **WX-2000-028**. Sample **WX-2000-026** was taken at the east contact with the dike and **WX-2000-028** was taken over 100m. west where the dike is covered by the creek and overburden. This contact area should be exposed to the west to see if the grade keeps increasing from **WX-2000-028**.

The area between **Sharpe Creek** and **Mariposa Creek** needs more prospecting, as anomalous values have been recorded in the past and by ourselves this year. ( See assessment file # 092672 by Ron McPhee and also Minfile #115-0-075 ) This felsic unit has an approximate strike that lines up with McPhee's old samples on **FISH 93** (RR-6 and RR-7) which ran 3.1 and 2.6 gr/ton Au. This is an extrapolation that needs follow up to determine if there is any connection at all.

On upper **Mariposa Creek** more work has to be done in close to the intrusive plug on the left limit side of the creek. The plug contact should be mapped out more precisely by excavating by hand with a shovel or by auger. Soil samples could be taken at the same time , testing both sides of the contact, in the intrusive and in the schist. Results from the work done further upstream on **Mariposa Creek**, to the south and south-east, do not seem to warrant further work at this time.

## Discriptions of BC Sample Series 2000

- BC-X-20-001** - Soil of alteration zone in schist with quartz veining. North side of 60cm deep Cat cut. 35cm deep C horizon.
- BC-R-20-002** - Rock from same location as BC-X-20-001. Grab of chloritic quartz with minor pyrite.
- BC-X-20-003** - Soil from edge of schist and quartz feldspar porphyry unit. 100m N.E. along road cut from -001 & -002. 40cm deep. C horizon.  
Lots of black stain in soil.
- BC-X-20-004** - Soil 20m N.E. of -003. Limonitic QFP unit on W. side of 40cm deep road cut. Iron stained. 40cm deep. C horizon.
- BC-X-20-005** - Soil 20m N.E. of -004. Limonitic QFP unit on W. side of road cut. 35cm deep. C horizon.
- BC-X-20-006** - Soil 20m N.E. of -005. Limonitic QFP unit on W. side of road cut. 40cm deep. C horizon.
- BC-R-20-007** - Rock sample from -006 area of limonitic QFP material. Some pyrite and a silver sulfide was seen.
- BC-X-20-008** - Soil 40m N.E. of -006 in limonitic QFP unit on W. side of road cut. 35cm deep. C horizon.
- BC-X-20-009** - Soil 60m N.E. of -008 in limonitic QFP and minor schist material. 35cm deep. C horizon.
- BC-X-20-010** - Soil 100m W. of -006 in decayed limonitic QFP with minor schist. 75cm deep. C horizon.
- BC-X-20-011** - Soil 100m W. of -010 in decayed schist with minor QFP with limonitic stain. 70cm deep. C horizon.
- BC-R-20-012** - Rock sample of stained quartz vein from -011. Minor pyrite.
- BC-S-20-013** - Soil sample taken from ridge between Blueberry Cr. And Kirkman Cr. Limonitic zone between amphibolite schist/gneiss layering. 65cm deep. C horizon.
- BC-S-20-014** - Silt taken on corner of Blueberry Cr. 100m upstream from the confluence of Blueberry Cr. And left limit gultch. Lots of fine micaceous silt.
- BC-X-20-015** - Soil 50m off Blueberry Cr. in ridge of QFP material. Oxidized. 50cm deep. C horizon.
- BC-R-20-016** - Rock in QFP 50m up ridge from soil -015 parallel to creek. Minor iron staining.
- BC-R-20-017** - Quartz vein with pyrite in schist. 2m wide chip. Striking 17 deg. N.
- BC-R-20-018** - 15m N. along vein from -017.
- BC-R-20-019** - 20m along vein from -018.



Sample site + name • BC-X-20  
 Claim post site + name + BC#  
 Claim line - - -  
 Road = = =  
 Altered QFP w/ minor schist [wavy hatching]  
 Schist [wavy line]

1cm. = 20m

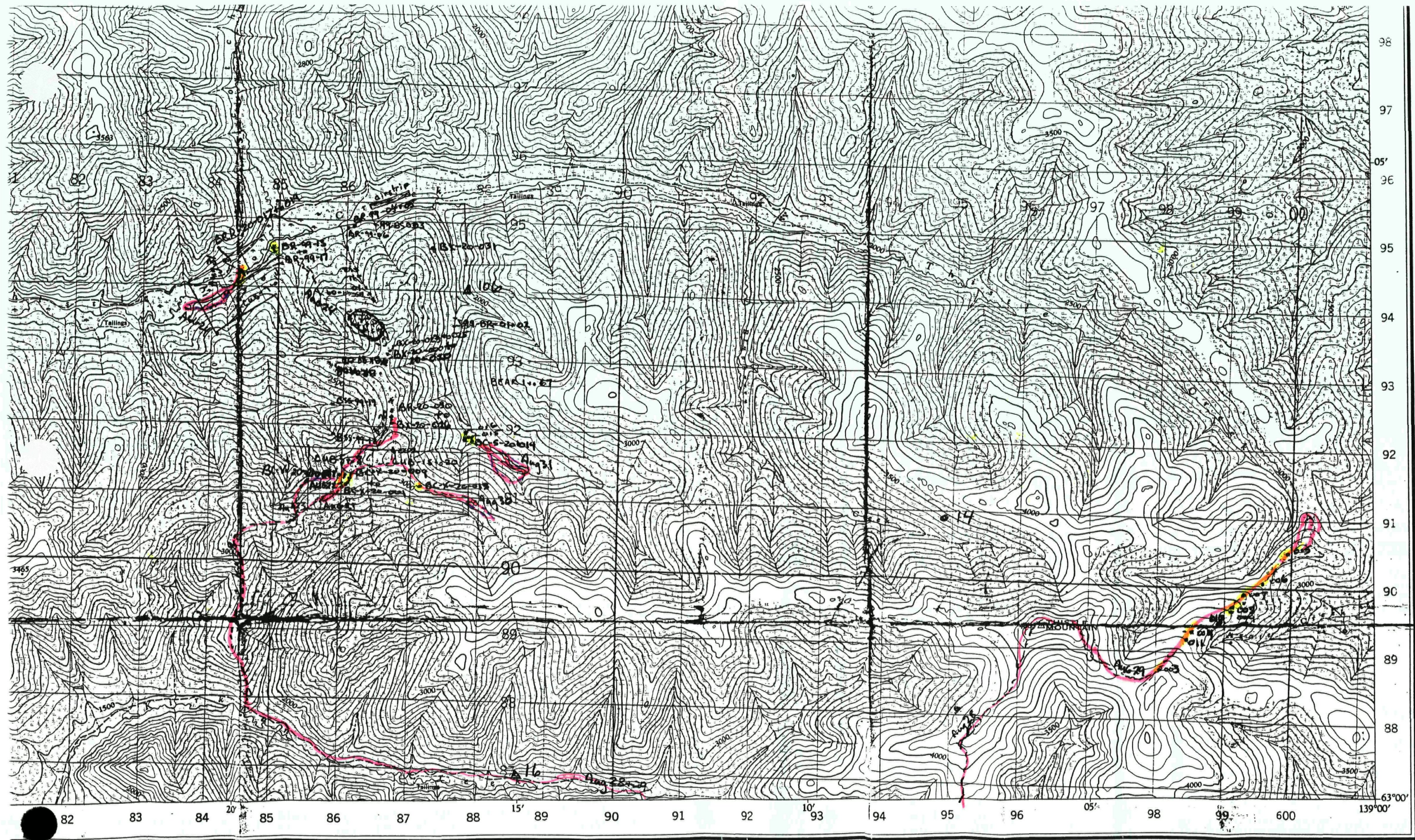
## Bear Claw Samples

A horse got into the samples at the Quartz Cr. airstrip and liked the taste of them. He made a bit of a mess of things in identification of the samples at the lab. This came to light after the fact, as marked on the map

- 003 -Rock sample of a decayed gneiss (grab) from an old Cat trench.  
Iron stained.
- 004 -Soil sample in decayed feldspar schist.Approx. location of Sparkling Minerals sample # 1648. 50cm deep. C horizon.
- 005 -Soil sample from an area of greenstone, chloritic volcanic with minor pyrite. 55cm deep. C horizon.
- 006 -Soil taken at break in slope from light brown layer.(felsic)
- 007 -Soil taken from zone in decayed felsic unit.(feldspar schist ?)  
60cm deep. C horizon.
- 008 -Soil taken from a topographical low in a ridge line. From limonitic feldspar decayed unit.65cm deep. C horizon.
- 009 -Soil from a decayed felsic unit running E.- W. 65cm deep. C horizon.

## UTM Coordinates for Bear Claw samples

-003	07V 0598098 6988742
-004	07V 0598552 6989336
-005	07V 0599918 6990521
-006	07V 0599573 6990088
-007	07V 0599312 6989903
-008	07V 0599247 6989780
-009	07V 0599276 6989697



# THISTLE CREEK

## YUKON TERRITORY

Traverses   
 Sample Sites   
 Intrusive plug 

Établie et imprimée par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE, MINISTÈRE DES MINES ET DES RELEVÉS TECHNIQUES en 1961, d'après les photographies aériennes prises en 1949 et 1955.

SCALE 1:50 000 ÉCHELLE

## Thistle Creek rock samples 1999


- 99BR001** -Quartz vein in amphibolite schist with pyrite. .5m outcrop chip.
- 99BR002** -Schist with pyrite beside quartz vein. .5m outcrop chip.
- BR-99-04** -Quartz vein minor pyrite and galena. .3m outcrop chip.
- BR-99-05** -Quartz carbonate vein with minor galena paralleling -04.
- BR-99-06** -Quartz vein 100m down from -04 and -05. .4m outcrop chip
- BR-99-08** -Felsic, quartz with limonitic staining. Subcrop grab.
- BR-99-13** -Quartz vein in pit bottom. Minor brecciation and pyrite.  
1m chip 20m. from S. pit edge.
- BR-99-14** -Quartz vein in pit bottom with galena and pyrite.  
1m chip 30m from S. edge of pit.
- BR-99-15** -Mineralized schist and quartz vein with pyrite.3m chip (1.5m  
schist + 1.5m quartz) 60m from S. edge of pit.
- BR-99-16** -Quartz vein and gouge with pyrite. 2 chip (1.5m vein + .5m  
gouge) 75m from S. edge of pit.
- BR-99-17** -Massive pyrite in quartz vein. .5m chip 85m from S. edge of pit.



Sample Map of BR-99-13 to BR-99-17


BR-99-13 07V0584932  
UTM 6994565

1cm = 20m

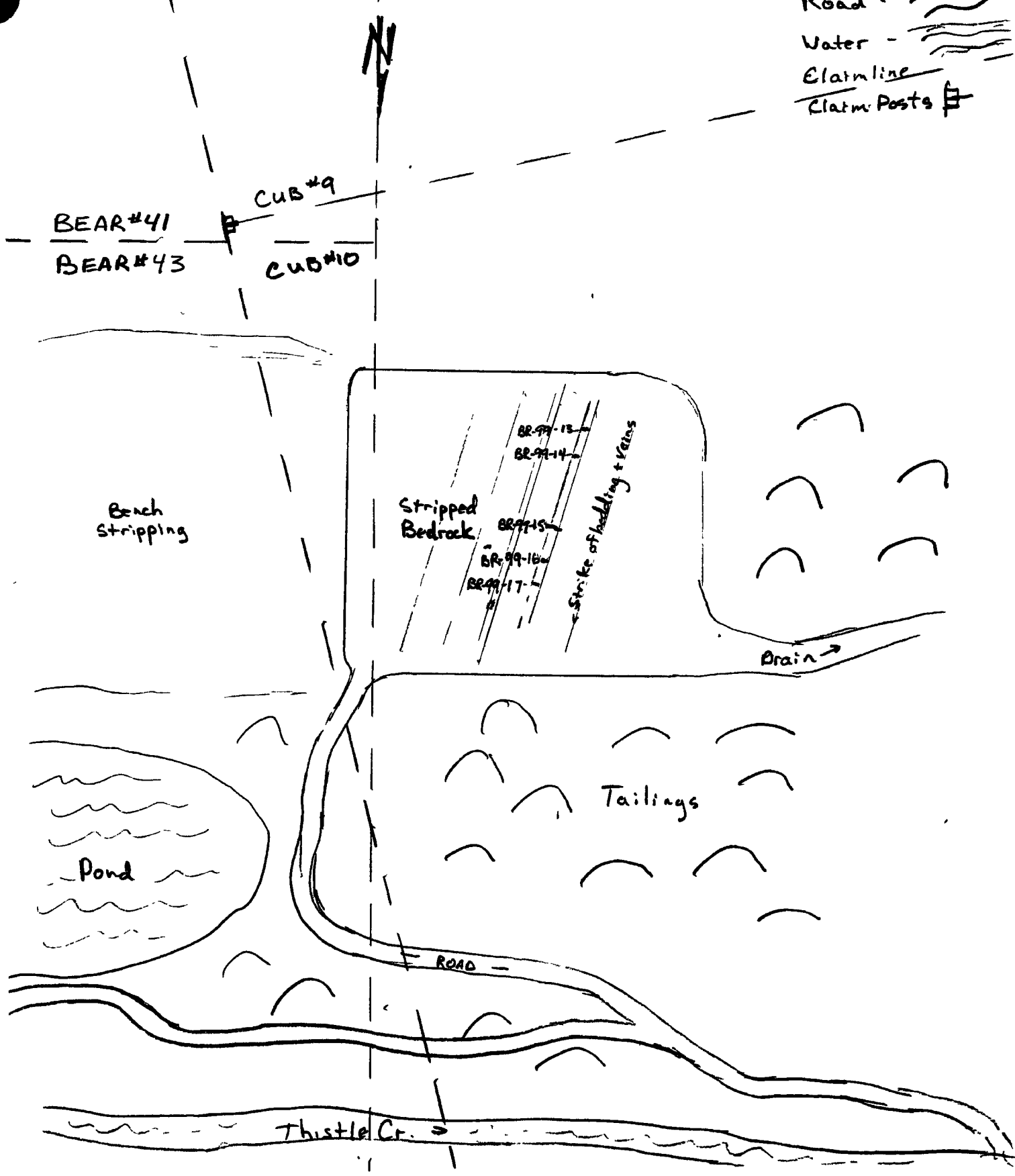
tailings = 

Road = 

Water = 

Claimline = 

Claim Posts = 



# Table of Results Thistle Cr. Prospecting

AR CUB Series	Au ppb	Cu ppm	Pb ppm	Zn ppm		
BC-X-20-001	17	41	20	119		
BC-R-20-002	12	27	10	35		
BC-X-20-003	11	42	24	100		
BC-X-20-004	13	197	16	181		
BC-X-20-005	14	156	10	100		
BC-X-20-006	16	176	13	97		
BC-R-20-007	12	144	11	54		
BC-X-20-008	17	176	8	63		
BC-X-20-009	15	182	10	99		
BC-X-20-010	20	190	9	82		
BC-X-20-011	10	100	19	138		
BC-R-20-012	13	108	17	98		
X-X-20-013	8	193	7	80		
BC-S-20-014	45	28	25	67		
BC-X-20-015	7	19	21	41		
BC-R-20-016	10	8	10	16		
<del>BEAR-CLAW Series</del>						
(A) -003	50	9	10	39		
(X) -004	13	17	42	49		
(X) -005	7	37	51	53		
(X) -006	15	43	7	80		
(X) -007	8	18	12	55		
(X) -008	36	35	25	87		
(X) -009	48	23	30	55		
BR-99 Series taken on CUB #10 off BEAR Cr Block					(ppm)	(ppm)
					Mo	Ag
BR-99-13	353	65	112	124	3	2.3
BR-99-14	97	59	1969	63	312	2.7
BR-99-15	212	17	45	122	193	1.4
BR-99-16	65	37	71	69	270	0.8
BR-99-17	32	25	21	85	18	0.4

## Table of Results Thistle Cr. Prospecting

BEAR CUB Series	Au ppb	Cu ppm	Pb ppm	Zn ppm		
BC-X-20-001	17	41	20	119		
BC-R-20-002	12	27	10	35		
BC-X-20-003	11	42	24	100		
BC-X-20-004	13	197	16	181		
BC-X-20-005	14	156	10	100		
BC-X-20-006	16	176	13	97		
BC-R-20-007	12	144	11	54		
BC-X-20-008	17	176	8	63		
BC-X-20-009	15	182	10	99		
BC-X-20-010	20	190	9	82		
BC-X-20-011	10	100	19	138		
BC-R-20-012	13	108	17	98		
BC-X-20-013	8	193	7	80		
BC-S-20-014	<5	28	25	67		
BC-X-20-015	7	19	21	41		
BC-R-20-016	10	8	16	16		
- BEAR-CLAW Series -						
(A) -003	50	9	10	39		
(X) -004	13	17	42	49		
(X) -005	7	37	51	53		
(X) -006	15	43	7	80		
(X) -007	8	18	12	55		
(X) -008	36	35	25	87		
(X) -009	48	23	30	55		
BR-99 Series taken on CUB #10 off BEAR Cr. Block					(ppm)	(ppm)
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BR-99-13	353	65	112	124	3	2.3
BR-99-14	97	59	1969	63	312	2.7
BR-99-15	212	17	45	122	193	1.4
BR-99-16	65	37	71	69	270	0.8
BR-99-17	32	25	21	85	18	0.4

# Thistle Creek Geology



Scale 1: 135 000

## Conclusions & Recommendations - Thistle Creek

The prospecting and sampling that was done around our BEAR CL. block seemed to indicate that the main anomalies lie within our claim block. I feel, however that more work needs to be done to the west and east of the claim block area, in the hills south of Thistle Creek.

The main Au mineralized zone we found is on BEAR CL. #19 at a point in line with the Blueberry Creek lineament. It is within 0.5 Km. of Bostock's mapped Cretaceous intrusive. Jim Ryan, of the GSC, remapped this intrusive as an older sheared granite. The polished section of sheared granite, which he had as an example at the Geoscience Forum, came from the road cut that leaves Blueberry Creek. I feel if he'd gotten off the road and walked around to the SW side of the mountain, he would have seen the unshaped granite that Bostock based his mapping on.

Other mineralized zones were found along the road cut going towards Kirkman Creek, but no significant Au values were found. However an interesting Cu anomaly was found in a quartz feldspar porphyry along 150 m. of road cut. The soil samples taken from this qfp ranged from 156ppm to 197ppm Cu with elevated Zn, Ba, V, Mn, Fe, Mg. Consistent low level Au (11 to 20 ppb) with some As and Mo were also evident. In the coming season contour soil sampling should be done to the west of this area. *To the east deep auger lines should go in to cut the highly sluffed area towards Blaberry.*

Another area of interest which needs more work, is the extensive quartz veining being exposed in the placer cuts along Thistle Creek. Rock samples taken in 1999 from these cuts showed Au values from 32ppb to 353ppb with anomalous Ag, Pb, Zn and Mo. Due to the fact that some of these values came from the pyritic wallrock of the quartz vein, it has been recommended that a continuous chip sample be done across these exposures and on subsequent exposures as placer mining continues. *This sampling turned out to be off the BEAR cl. block. CUB #9 to #14 were staked to cover this anomaly this year.*

**Sample Descriptions for Indian River Prospect  
Dunite 2000**

**Bishop-001-2000** -Grab 0.5m higher than DUN-20-001. Rock sample

**DUN-20-001** -1m chip of olivine dunite from trench#1 which was 1.5m wide  
by 1m deep. UTM 07V 0597814  
7064367

**DUN-20-002** -40m from -001 2m chip of olivine dunite at base of hill. Looked  
a little darker than -001  
maybe more magnetite or chromite? 1m deep  
UTM 07V 0597791  
7064394

**DUN-20-003** -50m upslope from -002. 1.5m chip Minor carbonate veining in  
olivine dunite.  
UTM 07V 0597838  
7064402

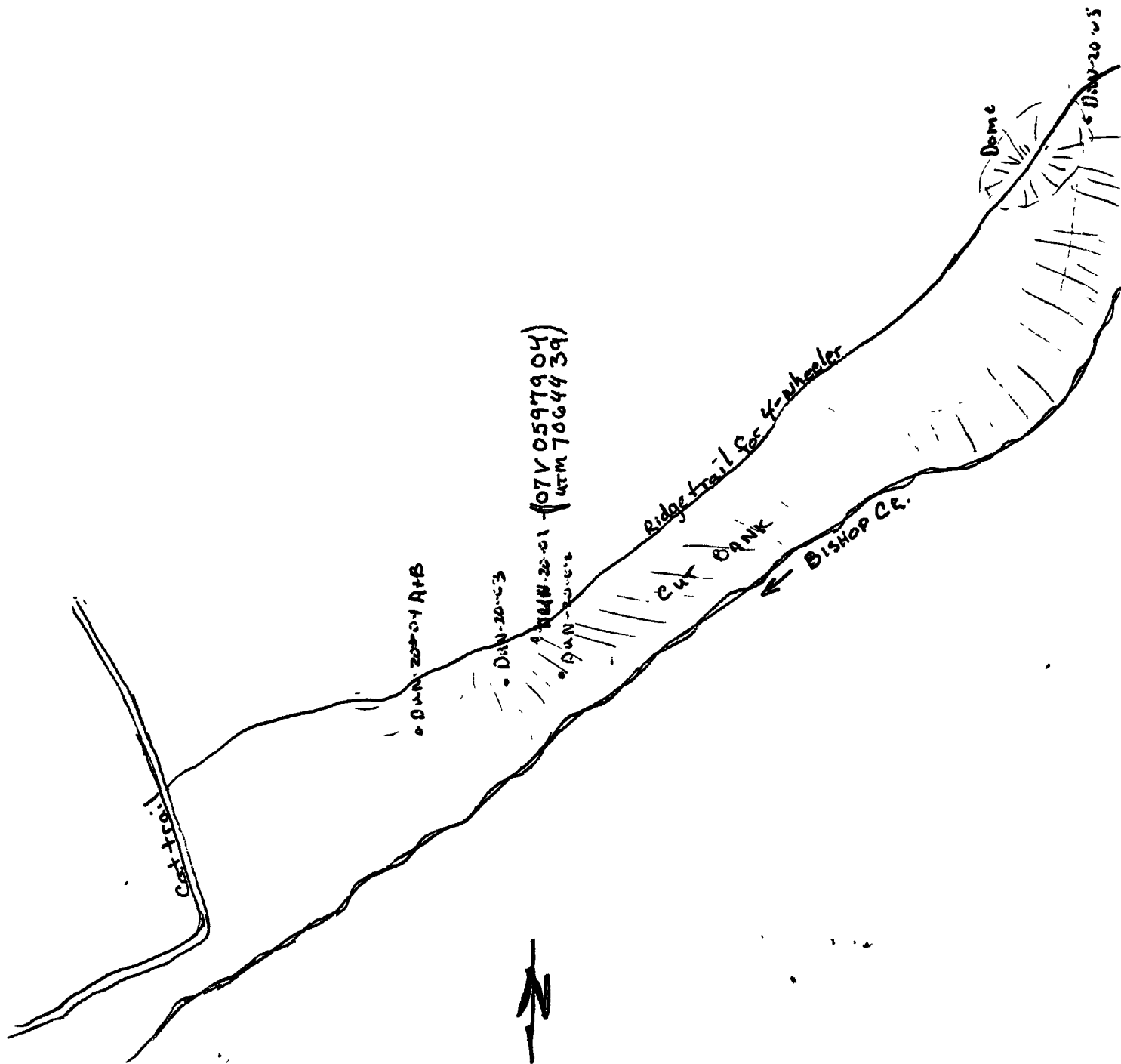
**DUN-20-004 A+B** 2.3m deep x 2m wide.  
(A)-1m vertical chip from 0.8 to 1.8m  
(B)-2m horizontal chip from 1.8 to 2.3m depth  
(A) -Serpentinized slightly to Talc. High olivine  
(B) -Darker chromite rich, less decayed, with carbonate  
veining. Possible clinopyroxene in dunite.  
UTM 07V 0597904  
7064439

**Dun-20-005** -40m from pin on hill top. 1m deep by 1m chip width.  
Siliceous olivine rich dunite with less visible sulfide.  
UTM 07V 0597340  
7063903

**BISHOP 002-2000** -Sample of placer con taken on Montana Cr. below  
ultramafic unit at head of creek. Approx. 10k from  
mapped unit.

# Sample Sites of INDIAN RIVER DUNITE

1cm = 50m

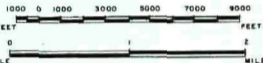


**115-0-11  
QUARTZ**

LATITUDE 63°30' TO 63°45'  
LONGITUDE 139°00' TO 139°30'

CANADA  
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES  
NORTHERN ADMINISTRATION AND LANDS BRANCH  
MINING AND LANDS DIVISION

SCALE 1:31,680



ISSUED UNDER THE AUTHORITY OF THE MINISTER  
OF  
NORTHERN AFFAIRS AND NATIONAL RESOURCES



115-0-13	115-0-14	115-0-15
115-0-12	115-0-11	115-0-10
115-0-8	115-0-6	115-0-7

**NOTICE**

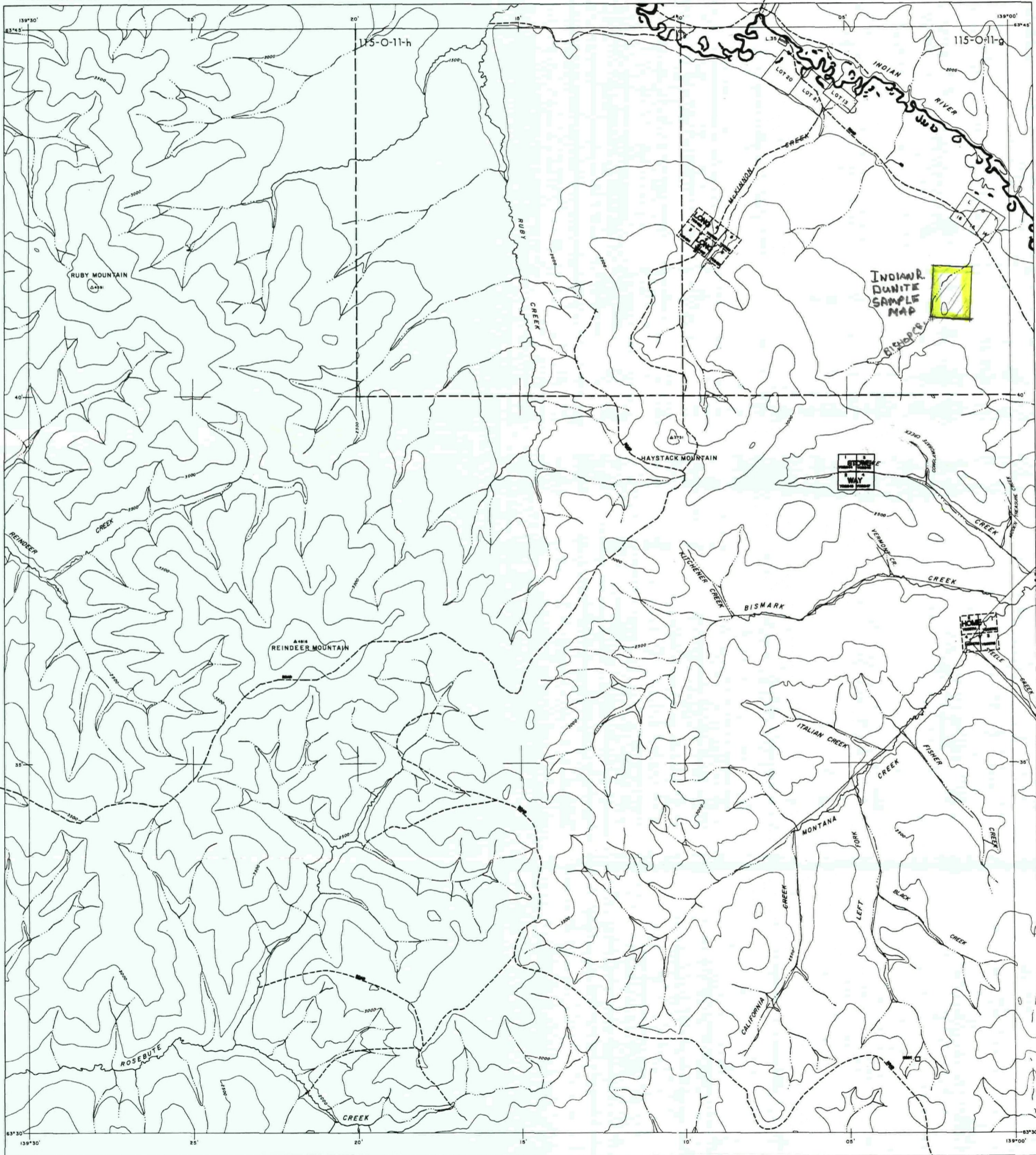
THIS MAP IS ISSUED AS A PRELIMINARY GUIDE FOR WHICH THE DEPARTMENT OF INDIAN AFFAIRS AND NORTHERN DEVELOPMENT WILL ACCEPT NO RESPONSIBILITY FOR ANY ERRORS, INACCURACIES OR OMISSIONS WHATSOEVER.

SEE ADJACENT MAP SHEETS EDGES FOR ADJOINING MINERAL CLAIMS NOT SHOWN ON THIS MAP

TOPOGRAPHY COMPILED FROM 1:50,000 NATIONAL TOPOGRAPHIC SERIES  
CONTOUR INTERVAL 500 FEET  
SURVEY INFORMATION COMPILED FROM LEGAL SURVEYS, BY DRAFTING SERVICES 1982.

DAWSON MINING DISTRICT    DFN (DAWSON FIRST NATION) A.K.A. TRONDEK HWECHIN FIRST NATION

1 JUNE 2000





## Summary, Conclusions & Recommendations

### Indian River -dunite

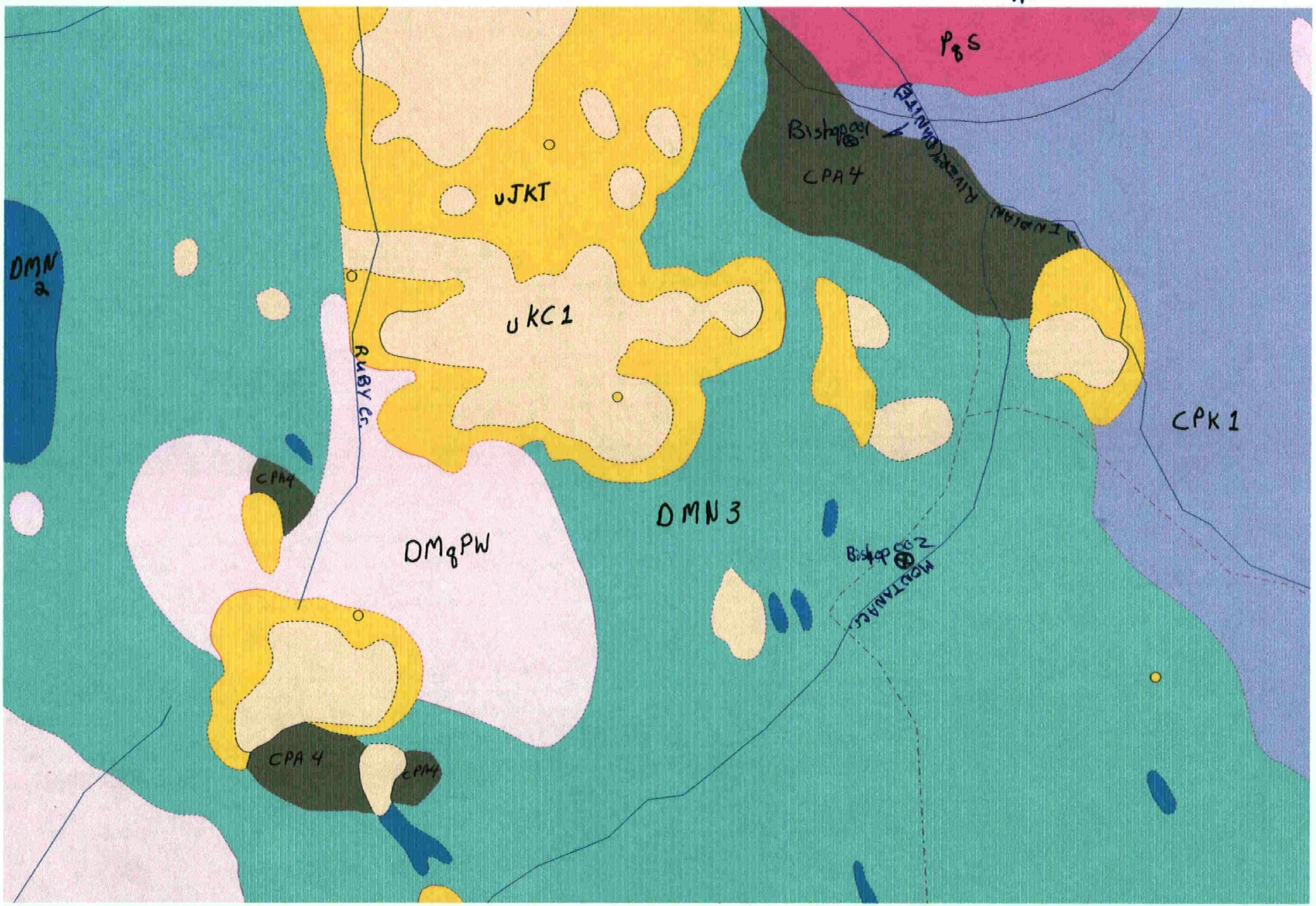
\_\_\_The **Indian River** dunite appears to be a fairly homogenous body. There appears to be some changes in it, maybe layering, towards the northern contact, as there is a possibly chromite rich layer under a possibly olivine rich layer. This was only hypothesized through the color change seen in Trench #4. Samples 4a and 4b may show more. In the trench material small white carbonate veins were seen, as well a dirty green coloration in the bottom dark layer. I think this signifies the clinopyroxene series of Ca rich pyroxenes. Sample #5 was a very siliceous olivine rich variety of dunite. This shows layering in the Indian River dunite body over the 800m that we checked. Most of the Indian River dunite, and all of the contacts, are concealed by overburden.

The eroded areas of the central part of the **Indian River** dunites should be checked as the geological setting is very similar to the zoned dunite complexes in Russia. (referred to as Alaskan-type ultramafic rocks in N.A.) The most deeply weathered sections of the Russian dunite had the most segregated chromite deposits. The PGE mineralization is in the segregations of chromite, found in the eroded central mass of the dunite. Very little, if any PGEs are found in the dunite host rock. In the Nizhnetagil or Ural-Type deposits, 60% of these zoned chromites in the dunite are barren, or have very little PGEs. The high chromite values we've seen in the unaltered competent dunite makes the recessively weathered areas interesting targets, which will have to be explored with geophysics and drilling or shafting.

There are some low level Pt, Pd numbers coming in from above the **Indian River** dunite body, as seen in sample **Bishop-002**. There are ultramafics mapped at the upper end of **Montana Creek**. There is no recorded history of work being performed directly on these ultramafic bodies that I can locate. Some work was performed in close proximity to the **Indian River** dunite body in the quartz pebble conglomerates. Platinum values were reported at the turn of the century in these conglomerates. I read this information 10 years ago from papers Glen Harris had which stated that platinum values had been found only along the N.E. extension of the conglomerates, which borders the dunite deposit. I have not seen these papers since, and Bill Harris could not locate them. Further work should be performed in this area.

More work needs to be done to define the contact zone at separate locations of this ultramafic body. Drilling is the most logical way to go, as the N. contact appears to be in the valley flats of the **Indian River**. Trenching on the southern contact is a possibility where it is concealed in the low lying hills. Trenching could possibly be used on the eastern contact as well.

Indian River L' naffics



Sample site ⊗

Scale 1: 110 000

## **Summary, Conclusions and Recommendations**

### **Florence Creek**

My interest in Florence Creek began in 1990, when I did some hand testing in the area. Using hand sluicing methods I obtained a sample that contained placer platinum. Later that summer Swede Swain, of Sikinni Oilfield, financed Bob Wondge and myself to return to Florence Creek and do a larger test. We used a 930 loader and 2-3" pumps. It was concentrated material from this test that S.B. Ballantyne did his "An investigation of platinum-bearing alluvium from Florence Creek, Yukon" Part A, GSC Paper 91-1A, p 119-129, 1991.

This year, myself and Charlie Brown flew by helicopter to Florence Creek to do further sampling, and to reacquaint myself with the area. We did a small test and returned with the concentrate. On the flight in and out, we flew the supposed path of glacial movement from the S.E. This flight path led to the Triassic basalts. The melt water channel we flew at low level, was in unaltered competent granite until the contact with the Triassic basalts. From the contact and into the Triassic basalts, large gossans and alteration zones in outcrops could be seen from the air. After hearing the talk at the GeoScience Forum about Nordl'sk, USSR, I realized the importance that Triassic age basalts had in the formation of the Nordl'sk deposit. This reconfirmed my thought of looking in and around this rock unit for the Florence Creek platinum. Some of these gossans could be gabbro, or ultramafic. These deep cut valleys could have cut through layers of overlying basalts.

There are ultramafic and gabbro boulders in Florence Creek. Ten years ago I walked the area extensively, looking at outcrop for the source of these boulders. I found nothing but felsic granitics within a 5 mile radius of the placer workings. Considering the direction of glacial movement, I now feel that these Triassic basalts could be the source of these boulders and the Florence Creek platinum.

The fact that the regional government stream silts are elevated in Ni, Cu, and Co, along these Triassic basalts, is another reason to prospect this contact area. The next trip to this area will be based along this gossanous area to the S.E., centered on the Ni, Cu, Co highs of the regional stream silts 115-H-85-1262, 1263, 1264 and 115-H-85-1265. The exposure is good along this contact area, with lots of cliff faces and outcrop for approximately 15km X 1km. I wanted to do it this year, but one has only so many hours..... 2001.

# SHEET 115-H-16

LATITUDE 61°40' TO 62°00'  
LONGITUDE 136°00' TO 136°30'

## MOUNT MORRISON

CANADA  
DEPARTMENT OF NORTHERN AFFAIRS AND NATIONAL RESOURCES  
NORTHERN ADMINISTRATION BRANCH  
RESOURCES DIVISION

SCALE 1/2 MILE TO 1 INCH

ISSUED UNDER THE AUTHORITY OF THE MINISTER  
OF NORTHERN AFFAIRS AND NATIONAL RESOURCES

OCT 20, 2000



115 I E	115 I I	115 I 4
115 H B	115 H B	115 E 13
115 H D	115 H 9	115 E 2

### NOTICE

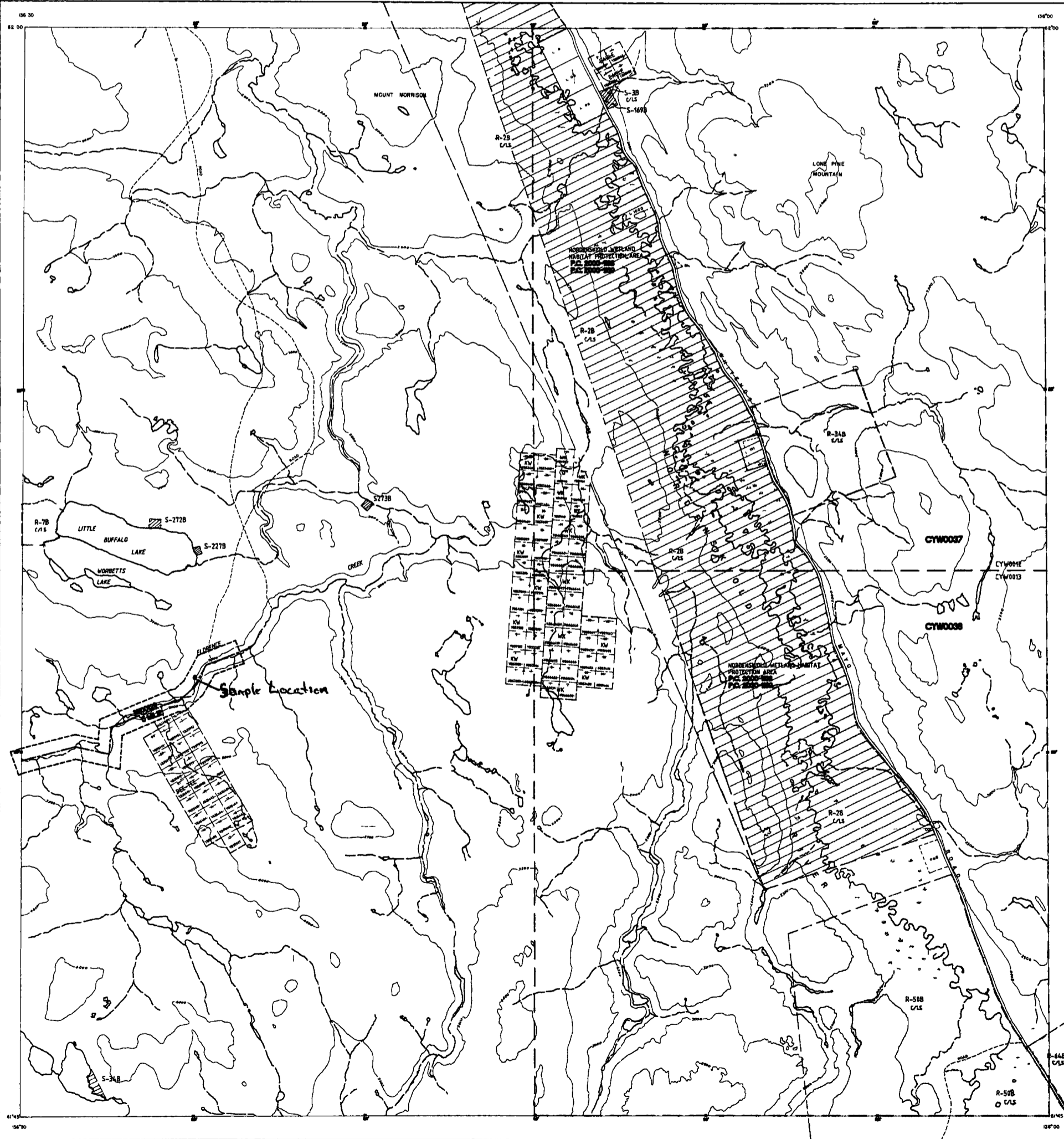
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SEE ADJACENT MAP SHEETS EDGES FOR ADJACENT MINERAL CLAIMS NOT SHOWN ON THIS MAP

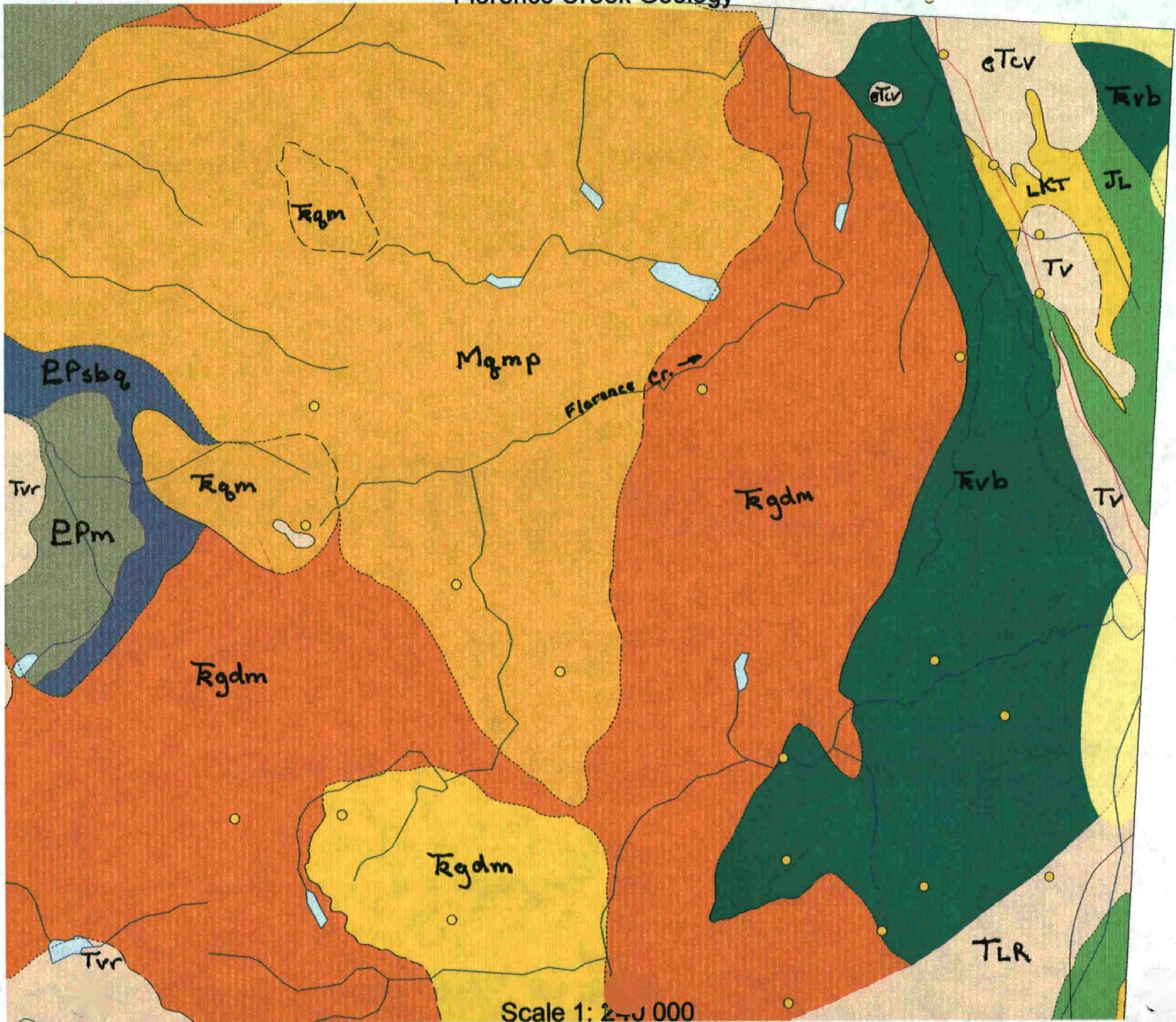
EXCEPT WHERE NOTED, ALL LAND CLAIMS ON THIS SHEET ARE C/L/S - CARIBOOC / LITTLE SALMON FIRST NATION

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.

WHITEHORSE MINING DISTRICT

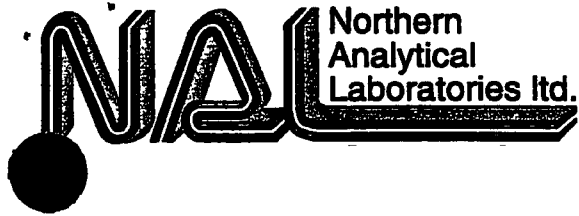


# Florence Creek Geology



# Legend 115-H

- eTCv** Carmacks Group; brown-weathering, brown augite olivine basalt and flow breccia
- Tv** Undifferentiated Volcanics, brown and green feldspar porphyry dike and flow rocks of intermediate composition
- Tvr** Varicoloured acid tuff; bright coloured light weathering acid vitric crystal tuff, lapilli tuff and welded tuff, includes plugs and necks that are feeders to these extrusive rocks
- LKt** Tantalus Formation; Chert pebble conglomerate with minor interbedded sandstone and shale
- JL** LaBarge Group; poorly sorted, white and buff weathering, medium bedded to massive sandstone with interbedded pebble and boulder conglomerate and minor shale
- Mqmp** Porphyritic Quartz Monzonite; pink coarse grained leucocratic quartz monzonite porphyritic pink quartz monzonite; may include porphyritic quartz monzonite (Mqmp) undifferentiated
- Trgdm** Hornblende granodiorite. dark grey weathering, coarse-grained, equigrainular biotite hornblende granodiorite to quartz diorite; commonly shows layering or foliation by alignment of mafics; includes pink quartz monzonite (Trqm) and porphyritic quartz monzonite (Mqmp) undifferentiated
- Trvb** massive green volcanics. massive dark green epidotized basalt; minor tuff breccia
- PPm** Amphibolite dark green fine grained amphibolite; includes interfoliated schist and gneiss
- EPsbq** Biotite Schist: brown grey weathering recessive, chlorite muscovite biotite quartz schist and micaceous quartzite; garnetiferous; minor amphibolite, marble and skarn



105 Copper Road  
Whitehorse, Yukon  
Y1A 2Z7  
Ph: (867) 668-4968  
Fax: (867) 668-4890  
E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To:

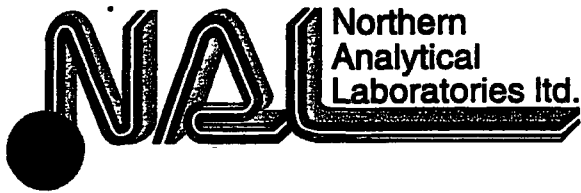
Tom Morgan

Invoice Date: 18/08/2000

WO# 00105

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
3	Sample Preparation: Rock/D.C. Sample Preparation	5.50	16.50
10	Soil/Sediment Sample Preparation	2.00	20.00
13	Analyses: Au + 30 Element	17.50	227.50
Subtotal			264.00
GST @7% (R 121285662)			18.48
Total due on receipt of invoice			<b>\$282.48</b>

2% per month charged on overdue accounts



105 Copper Road  
 Whitehorse, Yukon  
 Y1A 2Z7  
 Ph: (867) 668-4968  
 Fax: (867) 668-4890  
 E-mail: NAL@hypertech.yk.ca

18/08/2000

Certificate of Analysis

# of pages (not including this page): 1

Tom Morgan

WO# 00105

Certified by   
 Justin Lemphers (Senior Assayer)

Date Received: 15/08/2000

**SAMPLE PREPARATION:**

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	3	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
ss	10	sediment	Screen -80 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

AAS = atomic absorption spectrophotometry  
 FA = fire assay

$$1000\text{ppb} = 1\text{ppm} = 1\text{g/mt} = 0.0001\% = 0.029166\text{oz/ton}$$





# CERTIFICATE OF ANALYSIS

## IPL 1006

2036 Columbia St  
 Vancouver, B C  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-7898  
 [100614:05:14:00082800]

INTERNATIONAL PLASMA LABORATORY LTD

### Northern Analytical Laboratories

Project : W.O. 00105  
 Shipper : Norm Smith  
 Shipment: PO# 176741  
 Analysis:  
 ICP(AqR)30

13 Samples

Out: Aug 28, 2000 In: Aug 21, 2000

**Comment:**

**Document Distribution**

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 Whitehorse DL 3D EM BT BL  
 YT Y1A 2Z7 0 0 0 0 0  
 Canada Ph:867/668-4968  
 Att: Norm Smith Fx:867/668-4890  
 Em:NAL@hypertech.yk.ca

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT		
B31100	13	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis		
<b>Analytical Summary</b>							
##	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	Molydenum	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=3/4 Disk  
 DL=Download 3D=3/4 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

BC Certified Assayer: David Chiu

18/08/2000

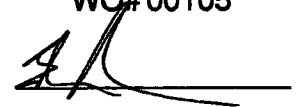
Certificate of Analysis

Page 1

Tom Morgan

WO# 00105

Certified by



Sample #	Au ppb
r WR-2000-019	6
r WR-2000-020	9
r WR-2000-024	9
ss WX-2000-016	15
ss WX-2000-017	8
ss WX-2000-018	18
ss WX-2000-022	30
ss SX-2000-023	14
ss WX-2000-024 - 2.	20
ss WX-2000-025	15
ss WX-2000-026	26
ss WX-2000-027	10
ss WX-2000-028	49

- WX-2000-023  
 - WX-2000-021



# CERTIFICATE OF ANALYSIS

## iPL 1006

2036 Columbia St  
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 Phone (604) 879-7878  
 Fax (604) 879-7898

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories  
 Project: W.O. 00105

**13 Samples**  
 13=Pulp

[100614:05:14:00082800]

Out: Aug 28, 2000  
 In : Aug 21, 2000

Page 1 of 1  
 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 %
WR-2000-019	<	49	12	55	<	<	<	1	<	<	2.9	16	9	148	<	62	28	267	24	39	2	1	0.11	0.92	0.26	2.10	0.49	0.41	0.03	0.04
WR-2000-020	P <	10	<	32	<	<	<	1	<	<	1.2	5	5	254	<	61	16	171	3	25	1	<	0.06	0.62	0.23	0.94	0.34	0.25	0.05	0.05
WR-2000-024	P <	20	7	7	<	<	<	1	<	<	0.5	3	3	97	<	76	3	119	<	20	1	<	<	0.21	0.08	0.36	0.04	0.04	0.06	<
WX-2000-016	P <	65	19	75	<	<	<	1	<	<	6.2	42	27	504	<	37	207	390	12	16	3	16	0.18	4.52	0.19	6.04	2.88	0.86	0.03	0.03
WX-2000-017	P <	15	8	118	<	<	<	3	<	<	5.8	18	6	375	<	1	113	260	26	21	1	13	0.12	2.05	0.79	3.86	1.42	0.77	0.02	0.24
WX-2000-018	P <	34	23	110	<	<	<	3	<	<	9.0	19	44	341	<	60	58	475	24	59	12	6	0.15	2.04	0.79	3.00	1.16	0.10	0.02	0.12
WX-2000-022	P <	21	15	63	<	<	<	3	<	<	4.0	12	14	450	<	23	58	369	18	21	3	4	0.07	1.74	0.31	2.75	0.60	0.13	0.02	0.07
WX-2000-023	P <	27	16	97	<	<	<	3	<	<	5.2	18	14	486	<	19	87	516	10	21	2	5	0.12	2.03	0.38	3.56	0.94	0.38	0.01	0.09
WX-2000-024	P-OL <	16	21	65	<	<	<	4	<	<	4.3	12	16	292	<	23	63	430	11	16	2	3	0.05	1.77	0.23	2.95	0.51	0.08	0.01	0.07
WX-2000-025	P <	12	14	83	<	<	<	2	<	<	3.2	8	6	498	<	11	43	295	12	20	1	2	0.06	1.45	0.32	2.31	0.47	0.17	0.01	0.09
WX-2000-026	P <	86	10	119	<	<	<	8	<	<	7.6	32	69	526	<	95	82	1152	18	32	3	14	0.02	1.78	0.87	4.89	1.11	0.17	0.02	0.18
WX-2000-027	P <	10	4	43	<	<	<	1	<	<	1.6	5	10	184	<	9	23	173	5	19	2	2	0.03	0.73	0.28	1.23	0.27	0.09	0.01	0.05
WX-2000-028	P <	28	12	129	<	<	<	3	<	<	6.3	19	9	248	<	6	89	297	9	24	3	16	0.05	1.71	0.73	3.91	1.15	0.19	0.01	0.17

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

Invoice for Analytical Services

To:

Invoice Date: 15/09/2000

Tom Morgan

WO# 00120

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
4	Sample Preparation: Rock/D.C. Sample Preparation	5.50	22.00
1	Sample Drying	2.50	2.50
13	Soil/Sediment Sample Preparation	2.00	26.00
17	Analyses: Au + 30	17.50	297.50
Subtotal			348.00
GST @7% (R 121285662)			24.36
Total due on receipt of invoice			<b>\$372.36</b>

2% per month charged on overdue accounts

15/09/2000

Certificate of Analysis

# of pages (not including this page): 1

Tom Morgan

WO# 00120

Certified by   
 Justin Lemphers (Senior Assayer)

Date Received: 28/08/2000

SAMPLE PREPARATION:			
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	4	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
s	13	soil	Screen -80 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

AAS = atomic absorption spectrophotometry  
 FA = fire assay

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



INTERNATIONAL PLASMA LABORATORY LTD

Northern Analytical Laboratories

Project : W.O. 00120
Shipper : Norm Smith
Shipment: PO#: 176744
Analysis: ICP(AqR)30

Comment:

Document Distribution

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

CERTIFICATE OF ANALYSIS

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Fax (604) 879-7898
[112713:03:04:00092100]

17 Samples Out: Sep 21, 2000 In: Sep 07, 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.

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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

BC Certified Assayer: David Chiu

Handwritten signature of David Chiu

15/09/2000

Certificate of Analysis

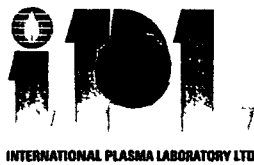
Page 1

Tom Morgan

WO# 00120

Certified by 

	Sample #	Au ppb
r	BC-R-20-002	12
r	BC-R-20-007	12
r	BC-R-20-012	13
r	B-R-20-030	12
s	BC-X-20-001	17
s	BC-X-20-003	11
s	BC-X-20-004	13
s	BC-X-20-005	14
s	BC-X-20-006	16
s	BC-X-20-008	17
s	BC-X-20-009	15
s	BC-X-20-010	20
s	BC-X-20-011	10
s	B-X-20-026	33
s	B-X-20-027	11
s	B-X-20-028	12
s	B-X-20-029	12



**CERTIFICATE OF ANALYSIS**  
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Client : Northern Analytical Laboratories  
Project: W.O. 00120

**17 Samples**  
17=Pulp

[112713:03:04:00092100]

Out: Sep 21, 2000 Page 1 of 1  
In : Sep 07, 2000 Section 1 of 1

Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B 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 %
BC-R-20-002	P 0.2	27	10	35	<	<	<	2	<	<	3.6	18	39	217	<	75	12	1122	8	152	2	2	0.03	0.53	5.86	2.86	0.62	0.03	0.01	0.02
BC-R-20-007	P 0.1	144	11	54	<	<	<	6	<	<	7.5	17	25	523	<	45	147	1575	4	93	1	13	<	0.16	10x	3.68	3.83	0.02	0.02	0.03
BC-R-20-012	P 0.2	108	17	98	<	<	<	5	<	<	9.0	38	40	983	<	58	165	1232	3	94	2	14	<	0.28	5.71	5.84	2.04	0.03	0.02	0.05
B-R-20-030	P <	6	<	19	<	<	<	<	<	<	1.0	3	5	47	<	66	13	172	2	8	4	3	<	0.20	0.13	1.06	0.05	0.03	0.04	0.01
BC-X-20-001	P 0.2	41	20	119	13	<	<	2	<	<	8.3	36	124	821	5	89	61	2618	36	27	4	13	<	1.49	0.75	5.89	0.42	0.12	0.01	0.09
BC-X-20-003	P <	42	24	100	<	<	<	1	<	<	5.3	20	41	999	6	11	36	831	25	146	2	8	<	0.48	2.10	3.68	0.22	0.10	0.02	0.03
BC-X-20-004	P 0.2	197	16	181	12	<	<	3	<	<	10.9	47	80	1135	<	59	195	1233	8	33	3	38	<	0.82	0.43	7.49	0.22	0.06	0.01	0.06
BC-X-20-005	P <	156	10	100	<	<	<	2	<	<	8.6	42	51	727	<	30	184	1754	8	26	2	32	<	0.65	3.29	5.84	0.38	0.09	0.01	0.12
BC-X-20-006	P <	176	13	97	<	<	<	2	<	<	7.0	33	56	213	<	43	153	1115	4	34	1	29	<	0.54	3.76	5.04	0.63	0.08	0.01	0.11
BC-X-20-008	P <	176	8	63	<	<	<	1	<	<	6.7	27	39	221	<	27	228	607	2	23	1	29	<	0.43	2.13	4.83	0.66	0.06	0.01	0.09
BC-X-20-009	P <	182	10	99	<	<	<	1	<	<	8.9	38	41	401	<	34	233	1492	12	12	2	26	0.01	0.85	0.49	7.01	0.16	0.05	0.01	0.12
BC-X-20-010	P <	190	9	82	<	<	<	1	<	<	6.6	27	37	539	6	56	204	1025	6	18	2	20	0.01	2.28	0.74	4.71	1.72	0.03	0.02	0.12
BC-X-20-011	P 0.3	100	19	138	11	<	<	5	<	<	10.8	40	84	875	<	102	140	1631	45	25	6	27	0.01	1.26	0.69	7.53	0.44	0.09	0.01	0.15
B-X-20-026	P 0.5	1236	86	419	789	12	<	9	<	<	15.1	58	52	359	<	41	307	2833	13	22	4	39	0.01	0.81	0.38	11x	0.30	0.07	0.02	0.05
B-X-20-027	P 0.2	302	43	185	<	<	<	4	<	<	12.2	46	82	785	6	93	198	2678	23	18	4	35	<	0.90	0.46	8.99	0.20	0.08	0.01	0.08
B-X-20-028	P <	35	15	62	<	<	<	1	<	<	4.5	15	28	347	<	32	65	384	26	30	3	7	0.06	1.73	0.52	3.06	0.53	0.05	0.03	0.05
B-X-20-029	P <	27	17	72	5	<	<	1	<	<	5.2	13	25	740	<	32	71	485	16	27	4	8	0.06	1.97	0.37	3.74	0.48	0.05	0.02	0.03

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  
 Max Reported\* 99.9 2000 2000 2000 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  
 —No Test Ins=Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate % NS=No Sample P=Pulp





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Y1A 2Z7  
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E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To:

Tom Morgan

Invoice Date: 04/10/2000

WO# 00142

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
2	Sample Preparation: Rock/D.C. Sample Preparation	5.50	11.00
10	Soil/Sediment Sample Preparation	2.00	20.00
12	Analyses: Au + 30	17.50	210.00
Subtotal			241.00
GST @7% (R 121285662)			16.87
Total due on receipt of invoice			<b>\$257.87</b>

2% per month charged on overdue accounts

04/10/2000

Certificate of Analysis

# of pages (not including this page): 1

Tom Morgan

WO# 00142

Certified by   
 Justin Lemphers (Senior Assayer)

Date Received: 18/09/2000

**SAMPLE PREPARATION:**

Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)
r	2	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh
ss	10	sediment	Screen -80 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

AAS = atomic absorption spectrophotometry  
 FA = fire assay

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



INTERNATIONAL PLASMA LABORATORY LTD

# CERTIFICATE OF ANALYSIS

## IPL 00I1290

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 Email ip1@direct.ca  
 [129011:56:43:00100500]

10 Samples

Out: Oct 05, 2000 In: Sep 28, 2000

### Northern Analytical Laboratories

Project : W.O. 00142  
 Shipper : Norm Smith  
 Shipment: PO#: 568101  
 Analysis:  
 ICP(AQR)30

#### Comment:

#### Document Distribution

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Canada					
Att: Norm Smith	Ph: 867/668-4968				
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	Em: NAL@hypertech.yk.ca				

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT		
B31100	10	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis		
<b>Analytical Summary</b>							
##	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	Molydenum	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 3/4 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

BC Certified Assayer: David Chiu



**CERTIFICATE OF ANALYSIS**  
iPL 00I1286

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[128611:57:26:00100500]

INTERNATIONAL PLASMA LABORATORY LTD

**Northern Analytical Laboratories**

**2 Samples**

Out: Oct 05, 2000 In: Sep 28, 2000

Project : W.O. 00142  
Shipper : Norm Smith  
Shipment: PO#: 176750  
Analysis:  
ICP(AQR)30

Comment:

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Att: Norm Smith Ph:867/668-4968  
Fx:867/668-4890  
Em:NAL@hypertech.yk.ca

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT
B31100	2	Pulp	Pulp received as it is. no sample prep.	12M/Dis	00M/Dis
				NS=No Sample	Rep=Replicate
				M=Month	Dis=Discard

Analytical Summary							
##	Code	Method	Units	Description	Element	Limit	Limit
						Low	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	x	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
24	0701	ICP	x	Al ICP (Incomplete Digestion)	Aluminum	0.01	9.99
25	0708	ICP	x	Ca ICP (Incomplete Digestion)	Calcium	0.01	9.99
26	0712	ICP	x	Fe ICP	Iron	0.01	9.99
27	0715	ICP	x	Mg ICP (Incomplete Digestion)	Magnesium	0.01	9.99
28	0720	ICP	x	K ICP (Incomplete Digestion)	Potassium	0.01	9.99
29	0722	ICP	x	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
30	0719	ICP	x	P ICP	Phosphorus	0.01	5.00

Tom McLean

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DL=Downk    1/2 Disk EM=E-Mail BT=BBS Type BL=BBS(1=Yes 0=No)    ID=C030901  
\* Our li. bill,    ed solely to the analytical cost of these analyses

BC Certified Assayer: David Chiu

04/10/2000

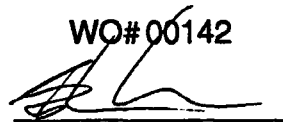
Certificate of Analysis

Page 1

Tom Morgan

WO#00142

Certified by



Sample #	Au ppb	115-0-3 1:50,000 On This is mapped as
SS BC-3-009	48	-009
SS BC-007	8	-007
SS BC-X-20-013	8	
SS BC-S-20-014	<5	
SS BC-X-20-015	7	
SS BX-20-030	6	
SS BEAR CLAW 004	13	-004
SS BEAR CLAW 005	7	-005
SS BEAR CLAW 006	15	-006
SS H BITE	36	-008
r BC-R-20-016	10	
r CLAW 003	50	-003



# CERTIFICATE OF ANALYSIS

## IPL 0011290

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INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories  
 Project: W.O. 00142

**10 Samples**  
 10=Pulp

[129011:56:43:00100500]

Out: Oct 05, 2000  
 In : Sep 28, 2000

Page 1 of 1  
 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 %	
BC-007	<	18	12	55	<	<	<	3	<	<	1.8	15	22	162	<	28	82	381	7	14	3	3	0.08	2.60	0.18	3.33	0.54	0.04	0.02	0.05	
BC-3-009	P	<	23	30	55	<	<	<	5	<	<	1.8	16	21	464	<	32	91	330	7	22	4	4	0.08	2.87	0.30	3.72	0.61	0.06	0.03	0.05
BC-S-20-014	P	0.1	28	15	67	<	<	<	2	<	<	0.9	14	27	149	<	27	42	289	29	35	3	3	0.06	1.54	0.76	2.72	0.76	0.14	0.03	0.06
BC-X-20-013	P	<	193	7	80	<	<	<	2	<	<	1.7	33	66	465	<	154	282	458	11	24	4	39	<	3.40	0.50	7.48	0.99	0.02	0.02	0.06
BC-X-20-015	P	<	19	21	41	<	<	<	1	<	<	0.9	7	13	304	<	17	49	196	12	10	2	3	0.01	1.61	0.11	2.67	0.20	0.06	0.02	0.02
BX-20-030	P	<	80	12	95	<	<	<	2	<	<	2.1	14	19	515	<	23	80	409	18	19	8	12	0.03	1.81	0.26	4.68	0.37	0.05	0.03	0.02
BEAR CLAW 004	P	0.1	17	42	49	<	<	<	3	<	<	1.5	2	4	115	<	2	5	75	11	22	1	3	0.01	1.13	0.08	3.92	0.20	0.16	0.04	0.03
BEAR CLAW 005	P	<	37	51	53	<	<	<	3	<	<	1.3	15	3	280	<	14	71	326	25	14	2	8	<	2.79	0.15	4.16	0.61	0.05	0.02	0.01
BEAR CLAW 006 POST-1	P	<	43	7	80	<	<	<	3	<	<	1.1	16	26	539	<	29	63	448	14	26	3	9	0.04	1.92	0.59	3.60	0.64	0.05	0.03	0.08
H.BITE	P	0.3	35	25	87	<	<	<	5	<	<	1.4	6	5	215	<	11	84	165	8	35	3	11	0.07	1.41	0.25	3.59	0.41	0.28	0.07	0.05

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



# CERTIFICATE OF ANALYSIS

## iPL J1286

2036 Columbia Street  
 Vancouver, B.C.  
 Canada V5Y 1C6  
 Phone (604) 879-7878  
 Fax (604) 879-7898  
 Email [ipl@direct.ca](mailto:ipl@direct.ca)

INTERNATIONAL PLASMA LABORATORY LTD.

Client : Northern Analytical Laboratories  
 Project: W.O. 00142

**2 Samples**  
 2=Pulp

[128611:57:26:00100500]

Out: Oct 05, 2000  
 In : Sep 28, 2000

Page 1 of 1  
 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 %
BC-R-20-016 #	<	8	10	16	<	<	<	<	<	<	<	2	2	214	<	69	3	234	12	24	2	1	<	0.16	0.79	0.85	0.01	0.07	0.03	0.01
CLAW 003 P	0.2	9	10	39	<	<	<	3	<	<	0.5	3	4	222	<	75	6	449	6	56	1	4	0.01	0.24	0.21	2.13	0.06	0.11	0.03	0.02

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    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

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

Invoice for Analytical Services

To:

Invoice Date: 24/10/2000

19651 Yukon Inc

WO# 00164

19651 YUKON INC

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
	Sample Preparation:		
1	Rock/D.C. Sample Preparation	5.50	5.50
1	Concentrate Sample Preparation	7.00	7.00
	Analyses:		
2	Au, Pt, Pd 30g FA/AAS	25.00	50.00
2	30 Element ICP	8.00	16.00
2	Rhodium	14.00	28.00
	Office:		
1	Minimum ICP Sample Submission Charge	20.00	20.00
Subtotal			126.50
GST @7% (R 121285662)			8.86
Total due on receipt of invoice			<b>\$135.36</b>

2% per month charged on overdue accounts



24/10/2000

Certificate of Analysis

# of pages (not including this page): 1

19651 Yukon Inc

WO# 00164

Certified by   
 Justin Lemphers (Senior Assayer)

Date Received: 24/10/2000

<b>SAMPLE PREPARATION:</b>						
Code	# of Samples	Type	Preparation Description (All wet samples are dried first.)			
r	1	rock	Crush to -10 mesh; riffle split 200g; pulverize to -100 mesh			
c	1	concentrate	Riffle split 200g, pulverize to -100 mesh (if necessary)			

<b>ANALYTICAL METHODS SUMMARY:</b>						
Symbol	Units	Element	Method (A:assay) (G:geochem)	Fusion/Digestion	Lower Limit	Upper Limit
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







105 Copper Road  
Whitehorse, Yukon  
Y1A 2Z7  
Ph: (867) 668-4888  
Fax: (867) 668-4890  
E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To: Tom Morgan

Invoice Date: 02/02/01

WO# 00168

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
6	Sample Preparation:	5.50	33.00
6	I.C.P	8.00	48.00
6	Au Pt Pd Fire Assay AAS 30	25.00	150.00
1	Surcharge Less than 6 samples	30.00	30.00

Subtotal 261.00  
GST @7% (R 121285662) 18.72

Total due on receipt of invoice **\$279.72**

2% per month charged on overdue accounts



Tom Morgan  
YmIP 00-058

**CERTIFICATE OF ANALYSIS**  
**iPL 01A0020**



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

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories  
Project: None Given

**6 Samples**  
6=Rock

[002014:46:44:10011001]

Out: Jan 10, 2001  
In : Jan 08, 2001

Page 1 of 1  
Section 1 of 2

Sample Name	Type	Au g/mt	Pt g/mt	Pd g/mt	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	B1 ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm
Dun 20-01	Rock	0.02	<0.01	<0.01	<0.1	20	40	30	<5	5	<3	4	<10	<2	1.1	53	1252	205	<5
Dun 20-02	Rock	0.02	<0.01	0.12	<0.1	9	19	28	<5	6	<3	2	<10	<2	2.1	66	1266	23	<5
Dun 20-03	Rock	<0.01	0.05	0.01	<0.1	12	18	21	<5	<5	<3	3	<10	<2	1.2	73	1403	40	<5
Dun 20-04A	Rock	0.01	<0.01	0.01	<0.1	11	11	24	<5	7	<3	3	<10	<2	1.8	66	1292	42	<5
Dun 20-04B	Rock	<0.01	<0.01	0.01	<0.1	16	10	29	<5	<5	<3	2	<10	<2	2.2	77	1669	116	<5
Dun 20-05	Rock	0.01	0.01	0.01	<0.1	4	14	22	<5	6	<3	3	<10	<2	1.6	66	1313	22	<5

Minimum Detection 0.01 0.01 0.01 0.1 1 2 1 5 5 3 1 10 2 0.1 1 1 2 5  
 Maximum Detection 9999.00 99999.00 9999.00 100.0 20000 20000 20000 10000 1000 10000 1000 10000 10000 100.0 10000 10000 10000 10000  
 Method FA/AAS FA/AAS FA/AAS ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP ICP  
 ---=No Test Efficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %E % NS=No Sample



# CERTIFICATE OF ANALYSIS

## iPL 01A0020



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

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories  
Project: None Given

**6 Samples**  
6=Rock

[002014:46:44:10011001]

Out: Jan 10, 2001  
In : Jan 08, 2001

Page 1 of 1  
Section 2 of 2

Sample Name	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %
Dun 20-01	697	20	303	<2	3	<1	1	0.01	0.22	0.03	3.08	5.92	<0.01	0.01	<0.01
Dun 20-02	759	21	744	<2	6	1	2	0.01	0.13	0.68	3.77	8.96	<0.01	0.01	<0.01
Dun 20-03	568	16	571	<2	1	1	2	<0.01	0.11	0.11	3.47	7.18	<0.01	0.01	<0.01
Dun 20-04A	978	24	752	<2	12	1	2	0.01	0.19	0.41	4.28	7.44	<0.01	0.01	<0.01
Dun 20-04B	856	23	972	<2	3	2	2	0.01	0.31	0.04	4.27	5.31	<0.01	0.01	<0.01
Dun 20-05	470	10	452	<2	6	1	2	<0.01	0.10	0.49	3.14	12%	<0.01	0.01	<0.01

Minimum Detection      1      2      1      2      1      1      1      0.01      0.01      0.01      0.01      0.01      0.01      0.01      0.01

Maximum Detection      10000      10000      10000      10000      10000      10000      10000      1.00      1.00      10.00      10.00      10.00      10.00      5.00      5.00

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

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



INTERNATIONAL PLASMA LABORATORY LTD

### Northern Analytical Laboratories

Project : None Given  
 Shipper : Norm Smith  
 Shipment: PO#: 568108  
 Analysis:  
 Au/Pt/Pd(FA/AAS 30)  
 ICP(AqR)30  
 Comment:

### Document Distribution

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

# CERTIFICATE OF ANALYSIS

## iPL 01A0020



2036 Columbia Street  
 Vancouver, B C  
 Canada V5Y 3E1  
 Phone (604) 879-7878  
 Fax (604) 879-7898  
 Email ipl@direct.ca  
 [002014:46:44:10011001]

6 Samples

Out: Jan 10, 2001 In: Jan 08, 2001

CODE	AMOUNT	TYPE	PREPARATION	DESCRIPTION		PULP	REJECT
B211	6	Rock	crush. split &	pulverize		12M/Drs	03M/Drs
NS=No Sample Rep=Replicate M=Month Dis=Discard							
Analytical Summary							
##	Code	Method	Units	Description	Element	Limit Low	Limit High
01	0368	FA/AAS	g/mt	Au (FA/AAS 30g) g/mt	Gold	0.01	9999.00
02	0331	FA/AAS	g/mt	Pt FA/AAS finish in g/mt	Platinum	0.01	9999.00
03	0341	FA/AAS	g/mt	Pd FA/AAS finish g/mt	Palladium	0.01	9999.00
04	0721	ICP	ppm	Ag ICP	Silver	0.1	100.0
05	0711	ICP	ppm	Cu ICP	Copper	1	20000
06	0714	ICP	ppm	Pb ICP	Lead	2	20000
07	0730	ICP	ppm	Zn ICP	Zinc	1	20000
08	0703	ICP	ppm	As ICP	Arsenic	5	10000
09	0702	ICP	ppm	Sb ICP	Antimony	5	1000
10	0732	ICP	ppm	Hg ICP	Mercury	3	10000
11	0717	ICP	ppm	Mo ICP	Molybdenum	1	1000
12	0747	ICP	ppm	Tl ICP (Incomplete Digestion)	Thallium	10	1000
13	0705	ICP	ppm	Bi ICP	Bismuth	2	10000
14	0707	ICP	ppm	Cd ICP	Cadmium	0.1	100.0
15	0710	ICP	ppm	Co ICP	Cobalt	1	10000
16	0718	ICP	ppm	Ni ICP	Nickel	1	10000
17	0704	ICP	ppm	Ba ICP (Incomplete Digestion)	Barium	2	10000
18	0727	ICP	ppm	W ICP (Incomplete Digestion)	Tungsten	5	1000
19	0709	ICP	ppm	Cr ICP (Incomplete Digestion)	Chromium	1	10000
20	0729	ICP	ppm	V ICP	Vanadium	2	10000
21	0716	ICP	ppm	Mn ICP	Manganese	1	10000
22	0713	ICP	ppm	La ICP (Incomplete Digestion)	Lanthanum	2	10000
23	0723	ICP	ppm	Sr ICP (Incomplete Digestion)	Strontium	1	10000
24	0731	ICP	ppm	Zr ICP	Zirconium	1	10000
25	0736	ICP	ppm	Sc ICP	Scandium	1	10000
26	0726	ICP	%	Ti ICP (Incomplete Digestion)	Titanium	0.01	1.00
27	0701	ICP	%	Al ICP (Incomplete Digestion)	Aluminum	0.01	10.00
28	0708	ICP	%	Ca ICP (Incomplete Digestion)	Calcium	0.01	10.00
29	0712	ICP	%	Fe ICP	Iron	0.01	10.00
30	0715	ICP	%	Mg ICP (Incomplete Digestion)	Magnesium	0.01	10.00
31	0720	ICP	%	K ICP (Incomplete Digestion)	Potassium	0.01	10.00
32	0722	ICP	%	Na ICP (Incomplete Digestion)	Sodium	0.01	5.00
33	0719	ICP	%	P ICP	Phosphorus	0.01	5.00

EN=Envelope # R tStyle CC=Copies IN=Invoices Fx=Fax(1=Yes 0=No) Totals. 1=Copy 1=In  
 DL=Download 3D-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

3/4 Disk

BC Certified Assayer: David Chiu

Invoice for Analytical Services

To:

Tom Morgan

Invoice Date: 02/02/01

WO# 00168

QTY	DESCRIPTION	UNIT PRICE	AMOUNT
6	Sample Preparation:	5.50	33.00
6	I.C.P	8.00	48.00
6	Au Pt Pd Fire Assay AAS 30	25.00	150.00
1	Surcharge Less than 6 samples	30.00	30.00

Subtotal 261.00

GST @7% (R 121285662) 18.72

Total due on receipt of invoice **\$279.72**

2% per month charged on overdue accounts



# Appendix of Ground History

<u>pgs.</u>	<u>Area</u>
(3) Minfile 1150 116	- Mariposa Cr.
(1) Minfile 1150 106	- Thistle Cr.
(2) Minfile 1150 014	- Thistle Cr.
(2) Minfile 1150 054	- Indian R.
(1) Minfile 115# 061	- Florence Cr.
(1) Minfile 115# 031	- Florence Cr.
(1) Minfile 115# 003	- Florence Cr.
(1) Claim Status Report of prior Claims	Mariposa Cr. + Thistle Cr.
(3) Sample Descriptions	Bear Claim Block (Thistle Cr.)
(2) Sample Location Maps	Bear Claim Block Thistle Cr.
(2) Sample Descriptions	Wolf Claim Block Mariposa Cr.
(1) Sample Location Map	Wolf Claim Block Mariposa Cr.
(6) Assay Certificates WO#00064	Wolf + Bear Cls.
(2) Assay Certificate WO#05744	Bear Claims.
1 Sample Descriptions	Silt + Soils Fr. 1999 Bear Cl. Block

**MAP SHEET 115 N & O**

**MINFILE: 1150 116**

**MAP SHEET 115 N & O \ MINFILE: 1150 116**

PAGE NO 1 of 1

**MAP SHEET 115 N & O \ MINFILE: 1150 116**

UPDATED 06/27/92

**MAP SHEET 115 N & O \ MINFILE: 1150 116**

YUKON MINFILE  
YUKON GEOLOGY PROGRAM  
WHITEHORSE

**MAP SHEET 115 N & O \ MINFILE: 1150 116**

NAME(S) <b>Pyroxene</b>	NTS MAP SHEETS <b>115 O 1</b>
MINFILE # <b>1150 116</b>	LATITUDE <b>63°02'00"N</b>
MAJOR COMMODITIES -	LONGITUDE <b>138°20'00"W</b>
MINOR COMMODITIES -	DEPOSIT TYPE <b>Unknown</b>
TECTONIC ELEMENT <b>Slide Mountain Terrane</b>	STATUS <b>Anomaly</b>

**MAP SHEET 115 N & O \ MINFILE: 1150 116**  
**CLAIMS (PREVIOUS AND CURRENT)**

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ CLAIMS (PREVIOUS AND CURRENT)**

PY, BTT, IRISH, KIPS, REST

**MAP SHEET 115 N & O \ MINFILE: 1150 116**  
**WORK HISTORY**

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ WORK HISTORY**

Staked as 64 PY cl (YA55186) in Apr/81 by M Barker Restaked by Doron E Inc in May/86 as BTT cl (YA87943), which were surrounded by 150 Irish (YA88503), 104 Rest (YA89204) and 112 Kips cl (YA88812) in Jan/87 by R. McPhee Both properties were optioned by M J Brady who explored with geophysical and geochemical surveys in 1987 The Rest claims were transferred to Brady in Apr/89

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ WORK HISTORY**

R. McPhee performed a VLF-EM survey and soil sampling on the Irish claims in Jul/91

**MAP SHEET 115 N & O \ MINFILE: 1150 116  
GEOLOGY**

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ GEOLOGY**

The claims are underlain by Permo-Triassic peridotite and dunite and were staked because the GSC had reported the occurrence of platinum in nearby placers. A Cretaceous quartz monzonite stock intrudes the ultramafic rocks along their north and west margins.

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ GEOLOGY**

The 1987 soil geochemical surveys outlined two 1000 to 1200 m long anomalies in the western part of the property. The anomalies appear to coincide with the margin of the stock and contain up to 280 ppb Pt, 150 ppb Pd and 110 ppb Au. A specimen of friable ultramafic rock taken from one of the anomalies assayed 15.2 g/t Au.

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ GEOLOGY**

The 1991 geochemical and VLF-EM surveys covered the more northerly of the 1987 anomalies. Except for one palladium assay the soil sampling failed to confirm earlier results. A VLF-EM conductor coincided with a zone of high Fe values in overlying soil (2.37-4.06% Fe).

**MAP SHEET 115 N & O \ MINFILE: 1150 116  
REFERENCES**

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

BOSTOCK, H S, 1937. Geological Survey of Canada, Memoir 218

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

DORON EXPLORATIONS INC, 1987. Prospectus Report #062285 by J E Wallis

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

GEORGE CROSS NEWSLETTER, 31 May/88

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

M J BRADY, 1987. Assessment Report #092088 by D H Waugh

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

WEACO RESOURCES LTD, 1991. Assessment Report #093007 by B G Richards

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

YUKON EXPLORATION 1987, p 286, 294

**MAP SHEET 115 N & O \ MINFILE: 1150 116 \ REFERENCES**

1150106

<b>Minfile no:</b>	1150106
<b>Name</b>	HAKONSON
<b>Claim name:</b>	HAPPY, CHASE
<b>Status:</b>	unknown
<b>Deposit class</b>	unknown
<b>Commod (minor)</b>	lead, silver, gold
<b>Significant min</b>	unknown
<b>NTS no</b>	1150
<b>NTS name:</b>	Stewart River
<b>Loc accuracy</b>	1 km
<b>Coded/revised</b>	910211 / 950330
<b>Lat/long(83)</b>	63 0689N 139.2641W

### **GEOLOGY**

The claims are underlain by deeply weathered Paleozoic? schist and gneiss. There is less than 1% outcrop on the property, which was probably staked in conjunction with nearby placer activity

Soil sampling by Sparkling Minerals Ltd outlined separate zinc, lead and copper anomalies. A specimen of quartz vein float with pods of galena returned 414 ppb Au, 2.2 ppm Ag and 0.89% Pb

### **WORK HISTORY**

Staked as Les cl (YA49479) in Jan/80 by L. Hakonson. Restaked as Frebru, MC & Lucy cl (YA84468) in Aug/84 by F. Stretch, who restaked as Happy & Chase cl (YA87983) and added Big Red cl (YA87982) two km south in Sep/86. Stretch trenched the Big Red claim in 1987 and the Happy and Chase claims in 1989.

Sparkling Minerals Ltd surrounded the Big Red claim with Viv (YB31169) and Ian cl (YB31134) in Jul/90, and restaked Big Red claim as Viv 10 (YB40203) in Aug/91, and explored with contour soil sampling and prospecting in June and Jul/91.

### **REFERENCES**

SPARKLING MINERALS LTD, 1991. Assessment Report #092983 by F. J. Anderson.

(From: INAC, Yukon Minfile, in Yukon Digital Geology, Gordey, S. P. and Makepeace, A. J. (comp.), 1999.)

1150014

<b>Minfile no:</b>	1150014
<b>Name</b>	BLACK FOX
<b>Claim name</b>	RED
<b>Status</b>	showing
<b>Deposit class</b>	disseminated, vein
<b>Commod (major)</b>	gold, silver
<b>Commod (minor)</b>	lead
<b>Significant min</b>	galena, chalcopyrite
<b>Assoc min</b>	pyrite, quartz
<b>NTS no</b>	1150
<b>NTS name</b>	Stewart River
<b>Loc accuracy</b>	5 km
<b>Coded/revised</b>	910104 / 950330
<b>Lat/long(83)</b>	63 0372N 139 1232W

## GEOLOGY

Historically, the exact location of the occurrence has been in some doubt because the Ogilvie geology map (GSC Map 711A) and some earlier editions of the 1 50 000 topographical map for 115 O 3 switched Blueberry Creek with Lulu Creek. The Red claims (Y56735) were staked at the headwaters of Lulu Creek. F. Anderson, a geologist employed by Sparkling Minerals Inc confirmed the location of the occurrence (pers comm, 1992).

The property is underlain by deeply weathered Paleozoic schist and gneiss and there is less than 1% outcrop. Development work in 1915 uncovered a 0.9 m quartz vein with pockets of galena, chalcopyrite and pyrite. A small, elliptical 100 gamma aeromagnetic anomaly occurs on the west side of Thistle Mountain.

Klondike Reef Mines Ltd staked the Cor claims to cover placer ground being worked by Faith Mines Ltd (an associated company). No assessment work was filed and the claims expired the next year.

Preliminary work by Sparkling Minerals Ltd outlined two gold geochemical anomalies and identified two distinct styles of quartz veining. (1) Lenticular, discontinuous veins of massive quartz with occasional disseminated pyrite and specular hematite on ridge tops between Ballarat and Kirkman Creeks. (2) Vuggy, limonitic quartz veins with up to 5% specular hematite, cutting pegmatitic quartz-feldspar dykes up to 2 m wide. Float samples of similar vein material contain pods of galena. A specimen of galena-bearing vein float contained 31.7 g/t Au, 75.4 g/t Ag and 1.5% Pb.

The results of Faith Mines' magnetic survey were relatively flat. The VLF-EM survey outlined several linear shape conductors located parallel to the claim baseline. The strongest were at the western end of the Lulu claims, where soil sampling returned weakly anomalous Ag values but no significant Au values.

## WORK HISTORY

Staked as Blueberry and Blackberry cl (4647) in May/01. Restaked as Consolation and Peterhara cl (12040) in Oct/10 and as Black Fox cl (12439) in Aug/14. Development was limited to an open cut 2.4 - 3 m deep in 1915. The Queen Anne Hill cl (4616) was staked in Sep/00 1.6 km from the head of Thistle Creek, and the Bluebell cl (39064) was staked on Tulare Hill (Thistle Mountain?) in Aug/37.

Restaked as Red cl (Y56735) in Apr/70 by M. Stutter, and again in Nov/90 by Klondike Reef Mines Ltd as part of the 164 cl Cor (YB31541) group. The Cor cl expired in 1991 and were restaked as Far (YB31187), Near (YB31463) and Bye cl (YB40215) by Sparkling Minerals Ltd, which conducted geochemical sampling and prospecting. In Jul/93, Sparkling Minerals Ltd trenched on the Far cl.

In Sep/93 C. Little staked the Lulu 1-22 cl (YB45533), End 1-10 cl (YB45555) and Begin 1-20 cl (YB45582) for Faith Mines Ltd. In Aug/94 Faith carried out magnetic and VLF-EM surveys on the Lulu claims. In Jul/95, Faith Mines staked Lulu cl 23-32 (YB54193), Begin cl 1-20 (YB54173) and restaked Eagle cl 8, 10 and 12 (YB54170). During this same period the company completed a soil survey on the western end of Lulu claims 1-22.

**REFERENCES**

BOSTOCK, H S , 1942 Ogilvie map sheet Geological Survey of Canada, Map 711A.

CAIRNES, D.D., 1917 Geological Survey of Canada, Memoir 97

FAITH MINES LTD, Apr/95. Assessment Report #093306 by P. Southam

FAITH MINES LTD, Sep/95 Assessment Report #093349 by P Southam

SPARKLING MINERALS LTD, 1991 Assessment Report #092982 by F J Anderson

TEMPELMAN-KLUIT, D J , 1973 Geological Survey of Canada, Paper 73-41

YUKON PLACER MINING INDUSTRY 1989-90, p 28-29

(From. INAC, Yukon Minfile, in Yukon Digital Geology, Gordey, S P and Makepeace, A J. (comp ), 1999 )

1150054  
**Minfile no:** 1150054  
**Name** MCKINNON  
**Claim name** KEY  
**Status** drilled prospect  
**Deposit class.** stratabound, epithermal, paleoplacer  
**Commod. (major)** gold  
**Significant min** gold  
**Assoc min** pyrite, quartz, tourmaline  
**Alteration min** siderite  
**NTS no:** 1150  
**NTS name** Stewart River  
**Loc accuracy** 5 km  
**Coded/revised** 910118 / 950330  
**Lat/long(83)** 63 6959N 139 1572W

## GEOLOGY

The original owners obtained many assays in the range 3.4 to 10.3 g/t Au from a conglomerate that they compared with the South African Rand. The GSC reported that a 1.8 tonne shipment tested at the Government stamp mill about 1901 assayed about 3.4 g/t Au. However, extensive sampling by MacLean in 1914 showed only trace amounts. Some reports have suggested that surface assays may be somewhat higher than average due to supergene enrichment.

Minor amounts of sulphides and siderite are also present in the conglomerate, which consists of well rounded pebbles of white quartz (90%) and micaceous quartzite (10%) averaging 0.4 to 2.5 cm in diameter and up to 8 cm maximum. The matrix ranges from sand to silt sized clastic debris to bluish, fine mica, which is locally silicified and well indurated. Bedding or banding is virtually absent. According to Cominco, the grade ranges from trace to 3.4 g/t Au and the gold is present in an extremely fine state in the matrix.

Andac's 1975 hole failed to reach the base of the conglomerate but did return subcommercial gold fragments from 1.8-6.0 m, 9.1-39.6 m and 51.8-70.1 m. The Yukon Revenue drilling in 1975 and Dome drilling in 1979 returned only low gold assays.

Mapping by G. Lowey for DIAND in 1983 determined that the conglomerates are Lower Cretaceous (Albian) in age and that they were deposited in fluvial and deltaic environments. Upper Cretaceous to Paleocene Carmacks Group andesite flows are interbedded with the conglomerates and coeval porphyritic andesite to (minor) dacite sills and dykes cut the sequence. Conglomerates are divisible into two sequences: a lower lithic unit and an upper quartzose unit. Only the upper unit contains gold. Historically, this deposit was regarded as a paleoplacer but Lowey suggested an alternative epigenetic epithermal origin, citing the extensive silicification and clay alteration. Assays of the conglomerate show the presence of typical epithermal trace metals such as Ag, As, Ba, Hg, Pb and Sb although the values are uniformly low.

The 1986-87 work returned disappointing results with only 6 of 47 chip samples returning greater than 20 ppb Au, with a maximum of 87 ppb Au.

Of the seven 500 kg bulk samples collected and processed in 1993, most returned low gold values. The highest assay obtained was 0.118 g/t Au.

## WORK HISTORY

Staked as Britannia group (4279) commencing in Jun/1900 by the McKinnon brothers, who put in a 8 m adit and a 18 m shaft in 1901-02. Other development included the 24 m Winchester shaft, a 30 m shaft and 46 m adit on the Andromeda claim and numerous shallow pits and open cuts. Approximately 200 claims were kept in good standing by various owners until interest waned following the death of the McKinnons in the early 1920's.

Restaked in Oct/63 as Indiana cl (79438) by Canex, in Jul/65 and Sep/66 as Black Bear cl (76645 & 87915) by F. Burkhard, in Jun/68 as Mac cl (Y15385) by Cominco, and in Jul/71 as Kin cl (Y65020) by Yukon Revenue ML. Only mapping and geochemical sampling have been done since 1912.

In May-Jun/73, R. Hrkac tied on 300 Mac, etc cl (Y65992) and transferred them to a private companies, Andac Res L, which mapped in 1974, entered a joint venture in 1975 with Kapvik E L and Action Res L, and added 114 Bill, etc cl (Y90309) in Apr-Aug/75, conducted more mapping and sampling and drilled one hole (70 m) later in the year Yukon Revenue mapped and sampled in 1972 and 1974 and drilled 4 holes (292.6 m) in 1975. Andac et al flew an aeromag survey in 1976, transferred the claims to McKinnon Rand Res L in early 1977, and optioned them to Dome ML, which enlarged the property and drilled 4 holes (934.2 m) in 1979

Restaked as Key cl (YA87792) in Oct/85 by G. Harris, who performed geological mapping in 1986 In 1987, the property was optioned by Volcano Res Corp, which explored with mapping, mag and VLF-EM surveys, bulldozer trenching and 9 holes (469.7 m) D Waugh tied on Key cl (YB23213) to the west in Oct/88, and added more Key (YB30414) and Tri (YB30425) cl in Apr and May/91 B Harris staked the MCK 1-34 cl (YB45771) in Oct/93.

Under an option agreement with D Waugh, Richlode Investments Corp performed a geochemical bulk sampling and trenching program on the Key and MCK claims in 1993 Prospect was restaked as Mck cl 1-34 by Waugh in Aug/95 Several of the Key claims did not expire until after Waugh restaked the prospect

#### **REFERENCES**

ANDAC RES LTD , 1973. Assessment Report #060902 by T E Lisle

COMINCO LTD, Feb/69 Assessment Report #019102 by W P Armstrong et al

DAWSON DAILY NEWS, 3 Mar/19.

DOME EXPLORATION (CANADA) LTD, Aug/70 Assessment Report #091354 by P W Richardson

GEOLOGICAL SURVEY OF CANADA Annual Report 1901, Part B, p 66

GEOLOGICAL SURVEY OF CANADA Paper 69-55, p 22

GEOLOGICAL SURVEY OF CANADA Paper 64-36, p 24

GEORGE CROSS NEWSLETTER, 18 Aug/93; 4 Feb/94

MACLEAN, T A , 1914 Lode Mining in Yukon Mines Branch Publication 222, p 62-71

MINERAL INDUSTRY REPORT 1976, p 138-139

RICHLODE INVESTMENTS CORP , Jan/94 Assessment Report #093167 by G S Davidson

VOLCANO RESOURCES CORP , 1987 Assessment Report #062277 by T R Tough

VOLCANO RESOURCES CORP , 1988 Assessment Report #092156 by T R Tough.

YUKON EXPLORATION 1985-86, p 288-289

YUKON EXPLORATION AND GEOLOGY 1983, p 69-78

(From: INAC, Yukon Minfile, in Yukon Digital Geology, Gordey, S P and Makepeace, A J (comp ), 1999 )



115H061  
**Minfile no:** 115H061  
**Name** PEETEE  
**Claim name** PEETEE  
**Status** unknown  
**NTS no.** 115H  
**NTS name** Aishihik Lake  
**Loc accuracy** 1 5 km  
**Coded/revi sed** 910614 / 910710  
**Lat/long(83)** 61 8330N 136.4186W

**GEOLOGY**

The claims are located above a placer lease on Florence Creek. Bedrock consists of foliated hornblende granodiorite of Triassic age.

**WORK HISTORY**

Staked as PEE-TEE claims (YB27989) by B. Wondga and B. Lueck in Oct/90.

(From INAC, Yukon Minfile, in Yukon Digital Geology, Gordey, S P and Makepeace, A J (comp), 1999)

115H031  
**Minfile no:** 115H031  
**Name** ORLOFF, KING ORLOFF; WISPER, KIRK, SPOCK  
**Status** anomaly  
**Deposit class** unknown  
**Significant min** unknown  
**NTS no** 115H  
**NTS name** Aishihik Lake  
**Loc accuracy** 1 km  
**Coded/revised** 910114 / 920601  
**Lat/long(83)** 61 7211N 136 1906W

### **GEOLOGY**

This location is underlain by Triassic basalt and tuff breccia. The original claim application noted that the claim was staked for gold potential.

The Spock claims cover a prominent gossan that returned high arsenic assays but near background gold values.

### **WORK HISTORY**

Staked as the King Orloff and Wisner cl (13859) in Oct/21, 6.4 to 8 km upstream from the mouth of Kirkland Creek and 90 m southeast of Post BL 4, Kluane Baseline Survey.

Restaked as Kirk cl (YA61341) in Jun/81 by H. Damron. Partially restaked as the Spock cl (YA94823) in Jun/86 by All-North Res L.

(From: INAC, Yukon Minfile, in Yukon Digital Geology, Gordey, S.P. and Makepeace, A.J. (comp.), 1999.)

115H003  
Minfile no: 115H003  
Name NIPPON, AH, RAZ  
Status showing  
Deposit class: unknown  
Significant min. unknown  
NTS no 115H  
NTS name Aishihik Lake  
Loc accuracy 5 km  
Coded/revised 910109 / 920601  
Lat/long(83): 61.8533N 136.1831W

### **GEOLOGY**

The AH claims were staked on the east side of a 150 gamma linear magnetic anomaly in Lower Cretaceous Mt Nansen volcanics. The Raz claims extend north to cover the contact of Mt Nansen volcanics with a slightly younger hornblende granodiorite intrusion. This contact is associated with centres of high copper geochemical response which are usually caused by minor disseminated chalcopyrite along northwest trending shears.

### **WORK HISTORY**

Staked as AH 63-78 cl (Y11231) in Nov/66 by Empress ML (Atlas EL and Nippon Mg L), following release of GSC aeromagnetic maps and reconnaissance geochemistry. Empress prospected the anomaly in 1967.

Restaked by the southern portion of a 11.2 km long block of Raz cl (Y67489) in Nov/72 by Can. Occidental Pet L following reconnaissance geochemical exploration.

P Kelly staked KW cl 1-26 (YB57383) 4 km to the west and R. Wondga staked KW cl 53-60 (YB57435) 2.5 km to the west in Feb/95.

### **REFERENCES**

EMPRESS MINES LTD, 1967 Assessment Report #017950 by R J Darney

(From: INAC, Yukon Minfile; in Yukon Digital Geology, Gordey, S.P. and Makepeace, A.J. (comp.), 1999.)



# Claim Status Report

07 July 2000

Claim Name and Nbr	Grant No.	Expiry Date	Registered Owner	% Owned	NTS #s
Bear 1 - 56	YC17285 - YC17340	2000/07/30	Carl J.J. Jonas	25.00	115-O-03
			Stuart Schmidt	25.00	
			Tom Morgan	25.00	
			Vernon Matkovich	25.00	
Bear 58 - 67	YC17341 - YC17350	2000/07/30	Carl J.J. Jonas	25.00	115-O-03
			Stuart Schmidt	25.00	
			Tom Morgan	25.00	
			Vernon Matkovich	25.00	
Cub 1 - 4	YC17351 - YC17354	2000/07/30	Carl J.J. Jonas	25.00	115-O-03
			Stuart Schmidt	25.00	
			Tom Morgan	25.00	
			Vernon Matkovich	25.00	
Wolf 1 - 22	YC17355 - YC17376	2000/07/30	Carl J.J. Jonas	25.00	115-J-15 , 115-J-16 , 115-O-01
			Stuart Schmidt	25.00	
			Tom Morgan	25.00	
			Vernon Matkovich	25.00	

**Criteria(s) used for search:**

CLAIM STATUS: ACTIVE & PENDING OWNER RPN 1001544 REGULATION TYPE. QUARTZ

**Left column indicator legend**

- R - Indicates the claim is on one or more pending renewal(s)
- P - Indicates the claim is pending

Total claims selected : 92

## Thistle Creek BEAR Claim block

### Sample description for 2000 season

**BX-2000-000(S)**- Start of soil line 40m west of sample -013 at the end of the road soil line. 60cm deep C horizon.

**BX-2000-001(S)**- 10m @ 20 deg. N. limonitic quartz feldspar and schist. 65cm deep C horizon.

**BX-2000-002(S)**- 20m @ 20 deg N limonitic quartz feldspar and schist. 75cm deep C horizon.

**BX-2000-003(S)**- 30m @ 20 deg N limonitic quartz feldspar and schist. 70cm deep C horizon.

**BX-2000-004(S)**- 40m @ 20 deg N limonitic quartz feldspar and schist. 70cm deep C horizon.

**BX-2000-005(S)**- start of road soil line in schist, above Quartz Feldspar unit (QF unit) . 15m S of BX-99-07. 30cm C horizon.

**BX-2000-006(S)**- 5m from 005 @ 20 deg N . QF unit very evident at this point, also with iron staining. 35cm deep C horizon.

**BX-2000-007(S)**- 10m @ 20 deg N. limonitic QF unit. 45cm deep C horizon.

**BX-2000-008(S)**- 15m @ 20 deg N. limonitic QF unit. 40cm deep C horizon. UTM 07V 0586685  
6992952

**BX-2000-009(S)**- 20m @ 20 deg N. limonitic QF unit 40cm deep

C horizon.

**BX-2000-010(S)**- 25m @ 20 deg N limonitic QF unit 35cm deep

C horizon.

**BX-2000-011(S)**- 30m @ 42 deg N limonitic QF unit 35cm deep

C horizon.

**BX-2000-012(S)**- 35m @ 42 deg N limonitic QF unit with some schist. 40cm deep C horizon.

**BX-2000-013(S)**- 40m @ 42 deg N limonitic QF unit and schist. 45cm deep C horizon.

**BX-2000-014(S)**- start of soil line in decayed limonitic QF unit with schist - 60 cm deep C horizon.

**BX-2000-015(S)**- 10 m@ 20 deg.N limonitic QF unit and schist 65 cm deep C horizon.

**BX-2000-016(S)**- 20m@20,deg.N. limonitic QF unit and schist 70 cm deep C horizon.

This sample site ties in with site -006 of the road line at 40m East.

**BX-2000-017(S)**- 30m@20 deg. N limonitic QF unit and schist 70cm deep C horizon.

**BX-2000-018(S)**- 40m@20 deg.N limonitic QF unit with minor schist. 75cm deep. C horizon.

**BX-2000-019(S)** - 50m@20 deg. N. limonitic QF unit ,some schist 70cm. deep. C horizon.

**BX-2000-020(S)** -60m@20 deg.N. limonitic QF unit in schist.Frost. 60cm.deep. C horizon.

**BR-2000-022** - Composite rock grab of pieces from BX-2000-006  
to BX-2000-009 of limonitic QF unit.

**BX-2000-023(S)** Soil of limonitic zone that crosses road 60m from -  
-013 on BEAR Cl. 19. 30 cm deep. C horizon.

**BX-2000-024(S)** Soil of limonitic zone 1m wide that crosses road  
40m from -023. BEAR Cl. 20. 35cm deep.  
C horizon.

**BX-2000-025(S)** Soil of limonitic zone 2m wide that crosses road  
30m from -024. BEAR Cl. 22. 35cm deep.  
C horizon.

**BX-2000-026(S)** Soil along shear zone of limonitic gouge zone in  
gray to black clay. Very oxidized. On contact  
of schist and QF unit. 45cm deep. C horizon.

**BX-2000-027(S)** 10m N. of -026 along road. Limonitic zone of  
QF unit. 45cm deep. C horizon.

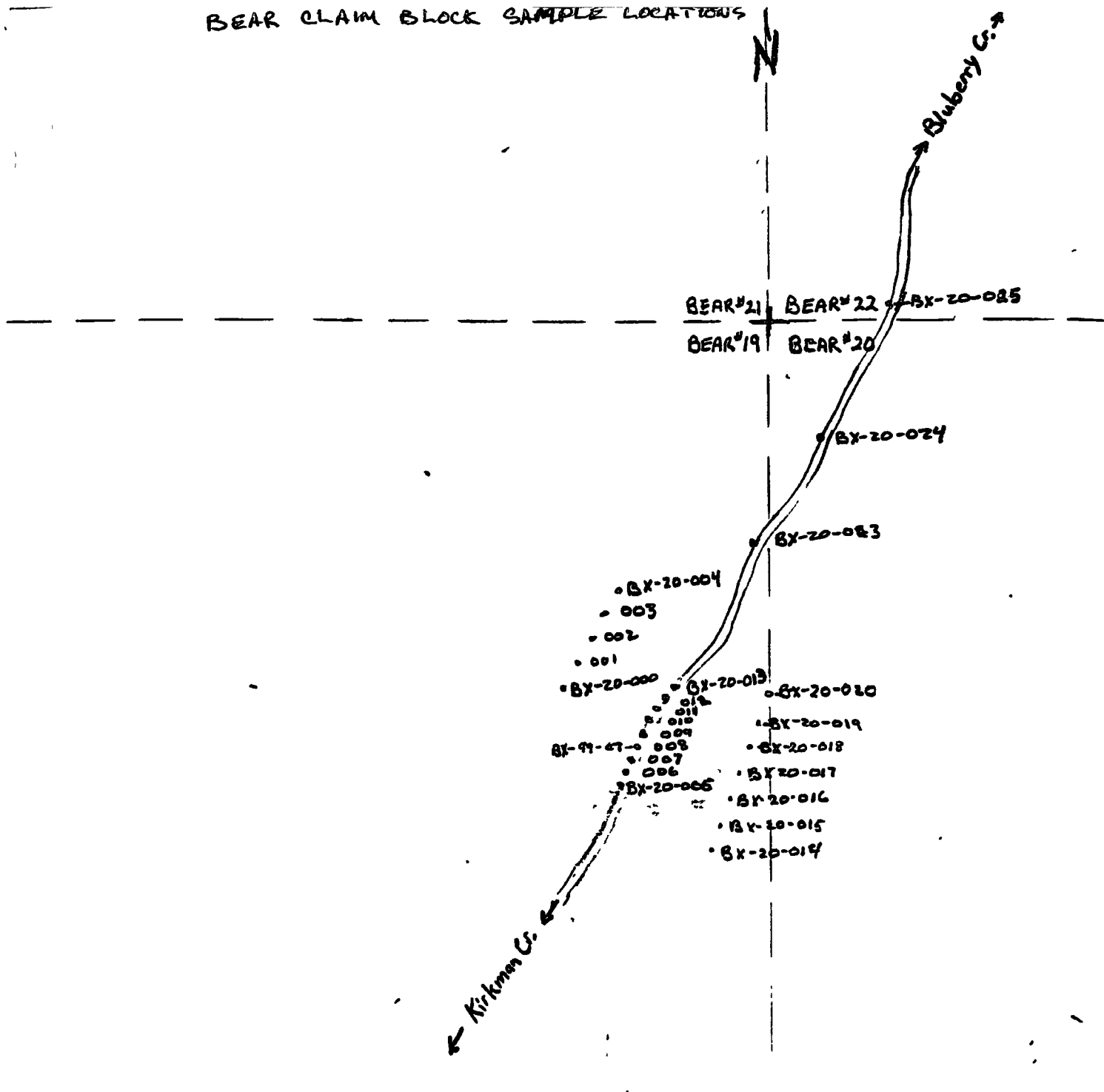
**BX-2000-028(S)** 10m N. of -027 along road. Limonitic zone of  
QF unit. 40cm deep. C horizon.

**BX-2000-029(S)** 10m N. of -028 along road. QF unit. 40cm deep. C horizon. 07 V0586771  
6992182

**BR-2000-030** -Rock. 10m from -029. No soil available at site.  
No iron stain or alteration in rock.

BX-2000-031 - 07 V 0587275  
6994635

BEAR CLAM BLOCK SAMPLE LOCATIONS



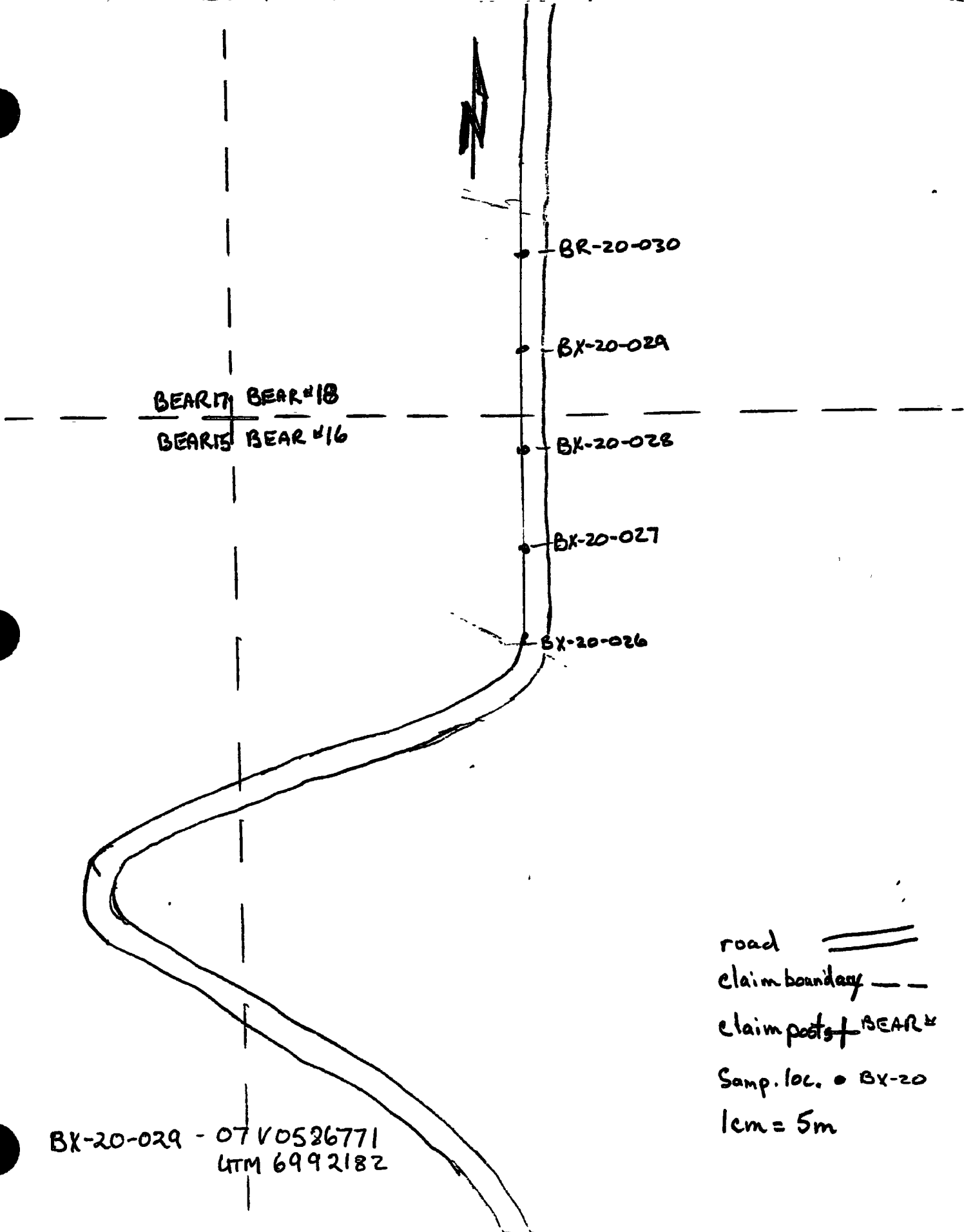
BX-99-07 } 07V0586685  
 BX-20-008 } UTM 6992952

1cm = 20m

Sample site • BX-20-  
 Claim posts + name "BEAR#"  
 ROAD   
 Claim line



BEAR CLAIM BLOCK SAMPLE LOCATIONS



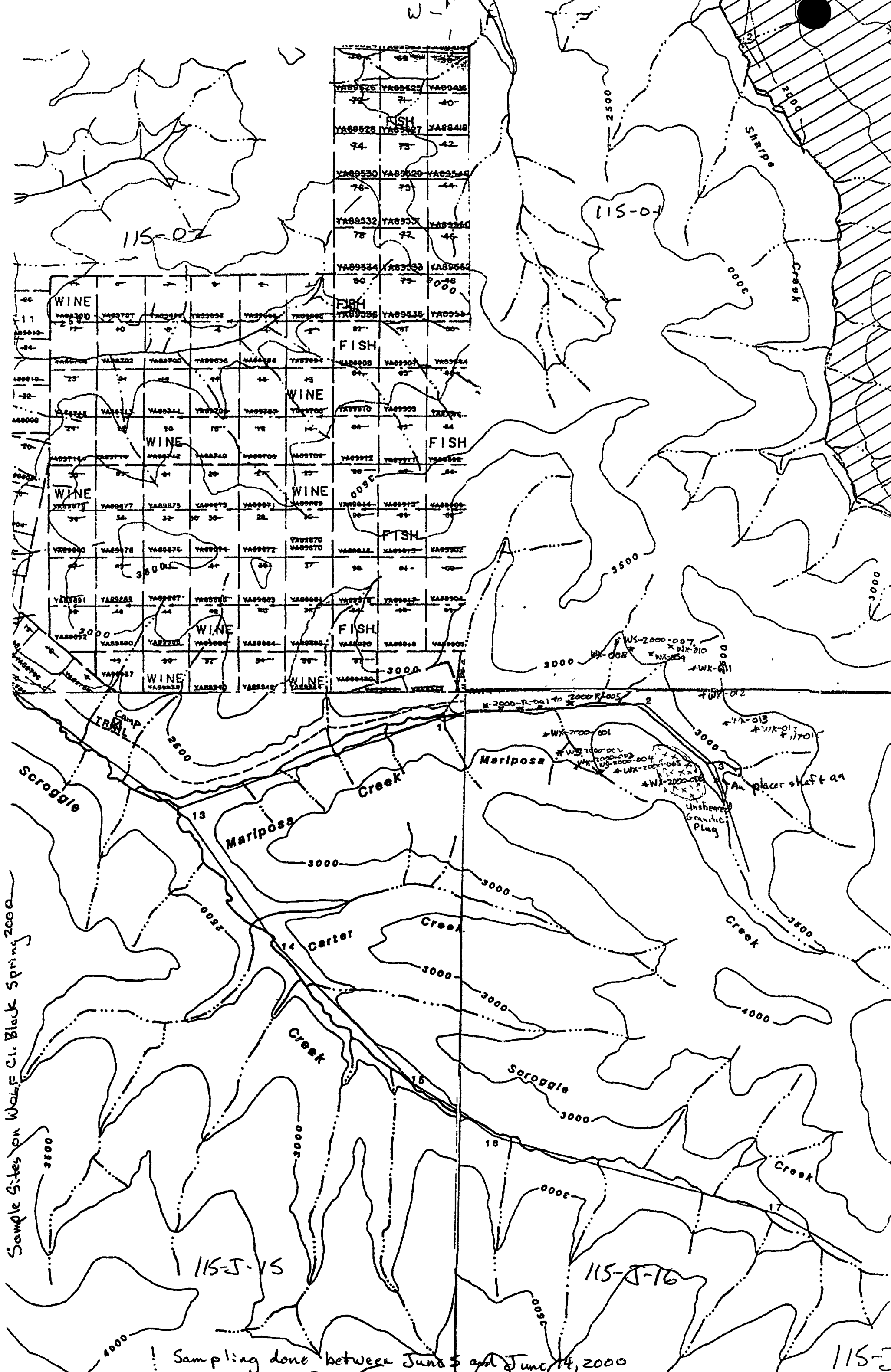
road ==  
claim boundary - -  
claim posts of BEAR #  
Samp. loc. • BX-20  
1cm = 5m

BX-20-029 - 07V0526771  
UTM 6992182

## Sample Descriptions and Locations

- WX-2000-001** - Soil sample of C horizon with light green - brown color. Taken at 55cm depth. Quartz in schist (amphibolite) material.  
UTM 07V 0627472 WOLF 17 YC17371  
6987443
- WS-2000-002** - Silt sample of small trib ; contained lots of micaceous fines and quartz pebbles  
UTM 07V 0627505 WOLF 17 YC17371  
6987376
- WS-2000-003** - Silt sample of small trib. contained lots of micaceous fines, some quartz. .  
UTM 07V 0627744 WOLF 17 YC17371  
6987179
- WS-2000-004** - silt sample of main trib. that has quartz boulders and blocky schist.  
UTM 07V 0627833 WOLF 19 YC17373  
6987125
- WX-2000-005** - Soil sample of C horizon with gray brown color taken at 65cm depth. Sericite schist with some quartz in sandy material.  
UTM 07V 0627889 WOLF 19 YC17373  
6987170
- WX-2000-006** - Soil sample of C horizon with green - brown to red color, taken at 40cm depth  
Hard blocky oxidized schist and quartz in sandy to clay material.  
UTM 07V 0628190 WOLF 22 YC17376  
6986994
- WS-2000-007** - Silt sample of right limit trib. to Mariposa Creek in a dark silt (hornblende?) with amphibolite schist and some quartz.  
UTM 07V 0628095 PYREX 3 YC17408  
6988421
- WX-008** -Soil sample of C horizon with gray-green-brown color taken at 70cm depth.  
Amphibolite schist and quartz, sandy to silty material.  
UTM 07V 0628284 WOLF 4 YC17358  
6988376
- WX-009** -Soil sample of C horizon with gray-brown to red-brown color taken at 65cm depth. Some felsic schist material with iron oxide, sandy to clay material.  
UTM 07V 0628497 WOLF 4 YC17358  
6988316
- WX-010** Soil sample of C horizon with gray-brown to red-brown color taken at 70cm depth. More felsic schist material with iron oxides in sandy to clay material.  
UTM 07V 0628788 WOLF 2 YC17356  
6988443
- WX-011** Soil sample of C horizon with green-brown fines taken at 65cm depth. Dark schist, gneiss material with some quartz in sandy material.  
UTM 07V 0628865 WOLF 2 YC17356  
6988171
- WX-012** Soil sample of C horizon with green-brown fines taken at 60cm depth. Dark amphibolite schist/gneiss with some quartz in the material.  
UTM 07V 0628892 MB 1 YC17410  
6987954





Sample Sites on Wolf Cr. Black Spring 2000

Sampling done between June 5 and June 14, 2000

115-J



105 Copper Road  
 Whitehorse, Yukon  
 Y1A 2Z7  
 Ph: (867) 668-4968  
 Fax: (867) 668-4890  
 E-mail: NAL@hypertech.yk.ca

Invoice for Analytical Services

To:

Invoice Date: 19/07/2000

Vern Matkovich  
 Tom Morgan

WO# 00064

Analyses:	DESCRIPTION	UNIT PRICE	AMOUNT
6	Sample Preparation: Rock/D.C. Sample Preparation	5.50	33.00
38	Soil/Sediment Sample Preparation	2.00	76.00
1	Soil/Sed. Sample Preparation (Plastic Bags)	3.00	3.00
45	Analyses: Au + 30	17.50	787.50
<p><i>PAID CASH</i>  <i>Thank you</i>  <i>W.P.</i></p>			
Subtotal			899.50
GST @7% (R 121285662)			62.97
Total due on receipt of invoice			<b>\$962.47</b>

2% per month charged on overdue accounts

19/07/2000

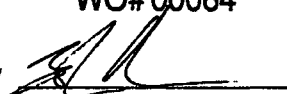
Certificate of Analysis

Page 1

Vern Matkovich

WO# 00064

Certified by



Sample #	Au ppb
s BX-2000-000	19
s BX-2000-001	11
s BX-2000-002	11
s BX-2000-003	66
s BX-2000-004	23
s BX-2000-005	11
s BX-2000-006	41
s BX-2000-007	160
s BX-2000-008	340
s BX-2000-009	99
s BX-2000-010	33
s BX-2000-011	20
s BX-2000-012	17
s BX-2000-013	22
s BX-2000-014	18
s BX-2000-015	10
s BX-2000-016	19
s BX-2000-017	17
s BX-2000-018	92
s BX-2000-019	26
s BX-2000-020	23
s BX-2000-023	22
s BX-2000-024	14
s BX-2000-025	10
s WS-2000-002	30
s WS-2000-003	10
s WS-2000-004	<5
s WS-2000-007	14
s WX-2000-001	17
s WX-2000-005	19

19/07/2000

Certificate of Analysis

Page 2

Vern Matkovich

WO# 00064

Certified by



	Sample #	Au ppb
s	WX-2000-006	111
s	WX-008	25
s	WX-009	65
s	WX-010	43
s	WX-011	9
s	WX-012	8
s	WX-013	18
s	WX-014	20
ss	WX-015	13
r	2000-R-001	21
r	2000-R-002	13
r	2000-R-003	7
r	2000-R-004	<5
r	2000-R-005	11
r	BR-2000-022	500







# CERTIFICATE OF ANALYSIS

## iPL 00G0801

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. 00064

**45 Samples**  
45=Pulp

[080114:51:22:00072800]      Out: Jul 28, 2000      Page 2 of 2  
In : Jul 21, 2000                      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 %
2000-R-001	P 0.1	15	35	331	<	<	<	5	<	<	5.0	13	30	52	<	22	86	197	44	26	4	11	0.01	0.60	0.31	4.21	0.08	0.09	0.02	0.16
2000-R-002	P 0.1	11	191	239	<	<	<	3	<	<	5.4	8	18	40	<	34	64	82	23	28	5	10	<	0.36	0.10	3.68	0.02	0.08	0.01	0.07
2000-R-003	P 0.1	38	159	174	33	<	<	3	<	<	4.4	15	28	96	<	27	49	71	26	28	5	9	<	0.54	0.07	3.21	0.03	0.07	0.01	0.07
2000-R-004	P 0.1	13	31	56	<	<	<	5	<	<	4.4	8	3	161	<	30	43	937	18	330	8	5	<	0.46	4.51	3.28	1.22	0.15	0.02	0.10
2000-R-005	P <	31	313	55	31	<	<	1	<	<	1.7	3	14	222	<	25	51	62	50	76	15	9	<	0.51	0.12	0.66	0.04	0.10	0.01	0.03
BR-2000-022	P 0.3	31	46	119	<	<	<	198	<	<	2.9	14	10	93	<	82	26	275	2	17	2	4	<	0.32	0.04	4.14	0.03	0.11	0.04	0.02

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    0.01

Max Repor    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    1.00    9.99    9.99    9.99    9.99    5.00    5.00

Method        ICP    ICP

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



INTERNATIONAL PLASMA LABORATORY LTD

# CERTIFICATE OF ANALYSIS

IP# G0801

2036 Columb  
Vancouver, B  
Canada V5Y 3E1  
Phone (604) 879-7878  
Fax (604) 879-7898  
[080114:51:22:00072800]

45 Samples Out: Jul 28, 2000 In: Jul 21, 2000

## Northern Analytical Laboratories

Project : W.O 00064  
Shipper : Norm Smith  
Shipment: PO#: 176734  
Analysis:  
ICP(AQR)30

CODE	AMOUNT	TYPE	PREPARATION DESCRIPTION	PULP	REJECT		
B31100	45	Pulp	Pulp received as it is, no sample prep.	12M/Dis	00M/Dis		
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

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	Fx:867/668-4890				
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\* Our liability is limited solely to the analytical cost of these analyses

BC Certified Assayer: David Chiu



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10/09/99

Certificate of Analysis

Page 1

16406 Yukon Inc.

WO# 05744

Tom Morgan

Certified by

Sample #	Au ppb
r 99BR001	<5
r 99BR002	<5
r BR-99-04	22
r BR-99-05	<5
r BR-99-06	<5
r BR-99-08	9
r BR-99-13	353
r BR-99-14	97
r BR-99-15	212
r BR-99-16	65
r BR-99-17	32
ss 99BS003	8
ss BSS-99-09	6
ss BSS-99-10	12
ss BSS-99-11	<5
ss BSS-99-12	<5
ss BSS-99-18	11
ss BSS-99-19	<5
ss BSS-99-20	<5
s BX-99-07	240



INTERNATIONAL PLASMA LABORATORY LTD

CERTIFICATE OF ANALYSIS
iPL 99I0863

2036 Columbia Street
Vancouver, B C
Canada V5Y 3E1
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Client : Northern Analytical Laboratories
Project: WO#05744

20 Samples
20=Pulp

[086315:10:42:99091499] Out: Sep 14, 1999 Page 1 of 1
In : Sep 13, 1999 Section 1 of 1

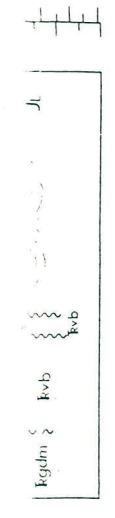
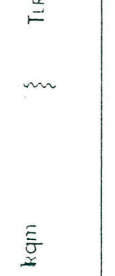
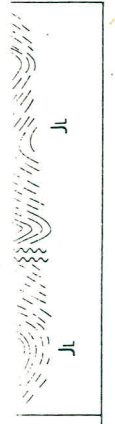
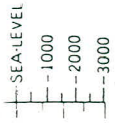
Table with columns: Sample Name, Ag, Cu, Pb, Zn, As, Sb, Hg, Mo, Tl, Bi, Cd, Co, Ni, Ba, W, Cr, V, Mn, La, Sr, Zr, Sc, Ti, Al, Ca, Fe, Mg, K, Na, P. Rows include samples like 99BS003, BX-99-07, BSS-99-9, etc.

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\* 9 20000 20000 20000 9999 999 9999 999 999 9999 99.9 9999 9999 999 9999 9999 9999 9999 9999 9999 9999 9999 9999 9999 1.00 9.99 9.99 9.99 9.99 9.99 5.00
Method P ICP
---No Test Insufficient Sample Del=Delay Max=No Estimate Rec=ReCheck m=x1000 %=Estimate NS=No Sample P=Pulp

## **Silt samples and soil sample 99**

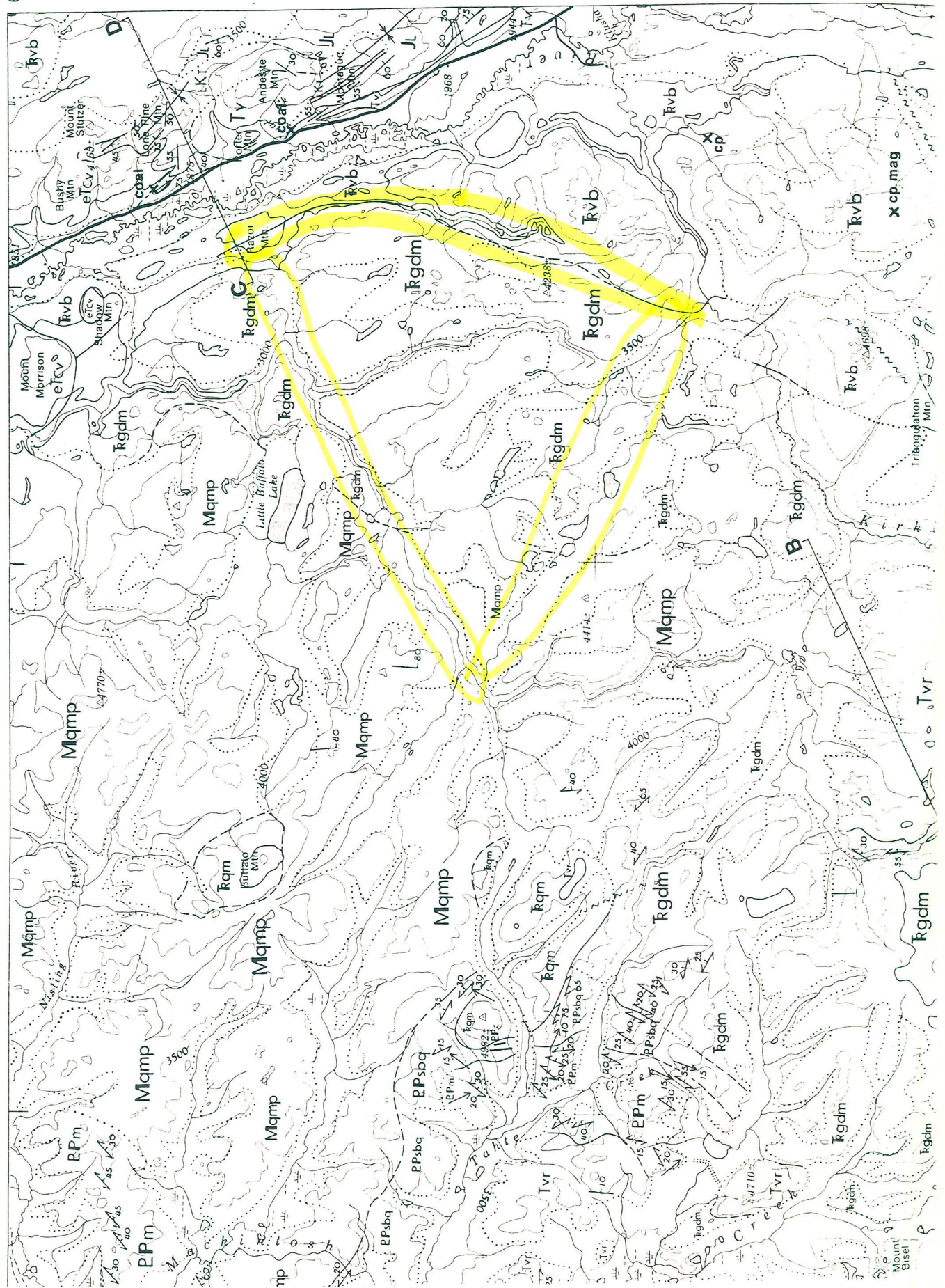
- BSS-003** -First left limit trib. to Thistle Creek below the mouth of Blueberry Creek.  
Sample taken 100m up from the confluence. Stream silt.
- BX-99-07** -Soil sample. Limonitic zone that crosses the Kirkman/Thistle road. Sampled  
across 25m of decayed QF unit.
- BS-99-09** -Second left limit trib. to ThistleCreek below the mouth of Blueberry Creek.  
Sample taken 1300m up from the confluence. Stream silt.
- BS-99-10** -Stream silt taken 130m downstream from BS-99-09.
- BS-99-11** Stream silt taken 300m downstream from BS-99-09.
- BS-99-12** -Stream silt taken 430m downstream from BS-99-09. ( valley fills and flattens,  
lots of fine micaceous silt. )
- BSS-99-18** -Stream silt of upper end trib. of Saucerman Pup, 335m from Post#1 of BEAR  
#29-30 going north.
- BSS-99-19** -Stream silt taken in the next trib. to the N. , crossing at 775m N. of Post#1  
of BEAR #29-30.
- BSS-99-20** -Stream silt from trib. at location of Post#1 of BEAR#37-38.

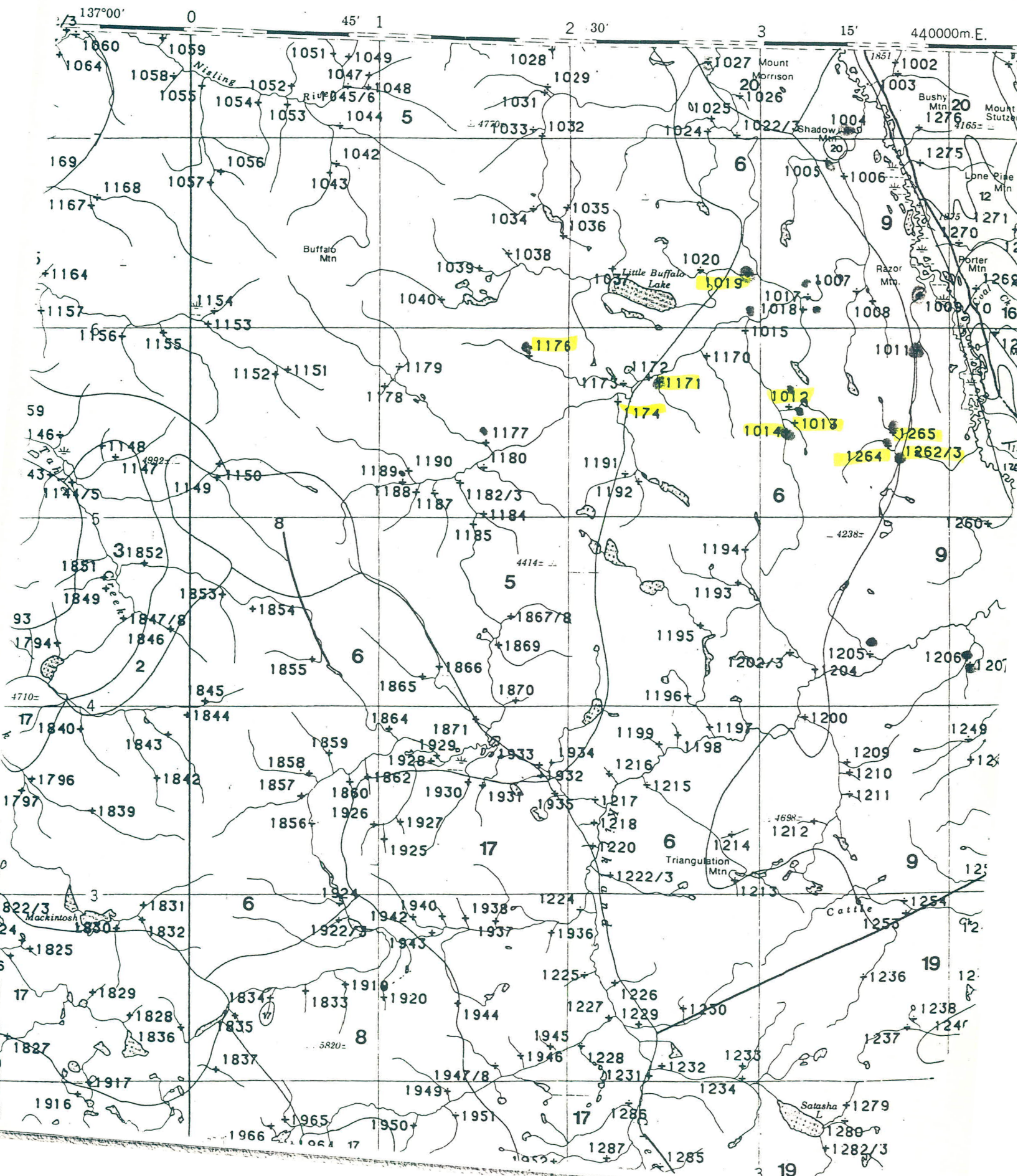
The rationale for going into Florence Cr. area and south of it in search of PGEs is as follows. ① Placer Platinum was found in the late 80's and documented on Florence Cr. ② Ultramafic rock units are seen in Florence Cr. valley ③ The glacial flow of delta moraine was from South to North ④ There is a green volcanic unit mapped 7 to 10 miles S to SE of Florence Cr. ⑤ The contact to the granodiorite and into these massive green volcanics will be explored in silt, rock and maybe soil samples for PGE potential. This unit is mapped as Trvb Massive Green Volcanics: massive dark green epidolized basalt; minor tuff breccia. I believe that it is in this unit that the ultramafics and Platinum placer pieces could originate from.



matic cross-sections along A-B, C-D, E-F-G and H-J

137° 00'      45'      30'      15'      136° 00'      62° 00'







REGIONAL STREAM SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA. YUKON 1985. GSC-OF 1219. NGR 84-1985. NTS 115H

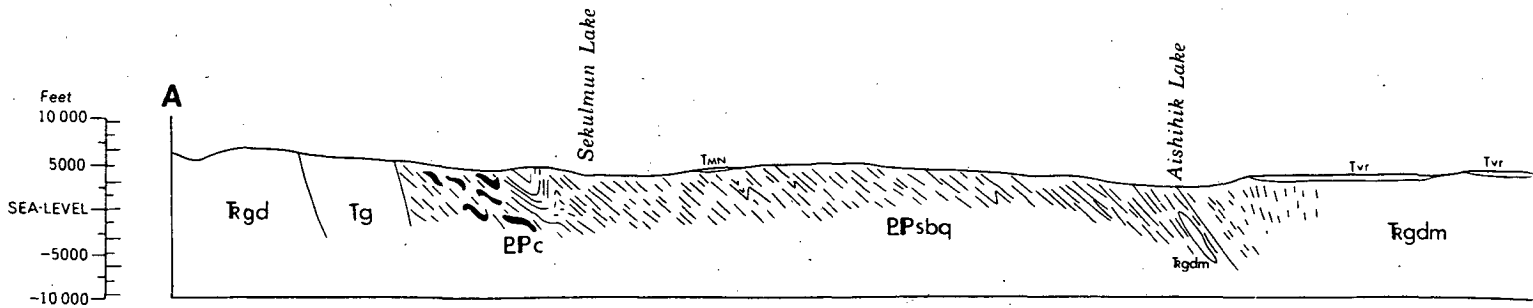
MAP	ID	ROCK TYPE	A G RP E ST	ZN	CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	LOI	U	F	V	CD	W	SN	SB	BA	AU	AU-R	AU WT1	D	AU WT2	D
																											L		L
115H	851224	TVA	58 00	40	11	5	8	5	.1	410	4.5	1	1.70	19	3.60	2.3	300	35	.1	1	.5	.2	1120	1		10.0	1		
115H	851225	TVA	58 00	40	13	4	8	5	.1	415	3.6	1	1.50	43	5.60	2.0	340	33	.1	1	.5	.2	1020	<1		10.0	1		
115H	851226	TVA	58 00	40	12	3	7	5	.1	405	3.6	1	1.70	40	5.20	2.4	290	43	.1	1	.5	.3	1000	<1		10.0	1		
115H	851227	TVA	58 00	42	14	5	8	6	.1	415	4.1	1	1.50	16	5.60	1.7	260	40	.2	1	.5	.1	1000	<1		10.0	1		
115H	851228	TVA	58 00	51	14	5	10	7	.1	905	5.4	1	2.00	37	4.00	2.0	290	45	.2	7	.5	.2	880	<1		10.0	1		
115H	851229	TVA	58 00	41	12	3	8	6	.1	390	4.1	1	1.60	32	12.0	2.2	300	40	.1	2	.5	.2	980	1		10.0	1		
115H	851230	EMN	59 00	57	18	2	10	7	.1	565	5.4	1	2.10	59	7.20	2.2	400	40	.2	1	.5	.3	1060	1		10.0	1		
115H	851231	EMN	59 00	34	8	2	6	5	.1	270	2.2	1	1.20	21	6.40	2.1	260	33	.2	1	.5	.1	880	<1		10.0	1		
115H	851232	EMN	59 00	60	18	1	14	10	.1	595	4.5	1	2.50	69	5.00	1.9	640	50	.1	1	.5	.3	1320	<1		10.0	1		
115H	851233	EMN	59 00	53	12	2	8	7	.1	1510	5.4	1	2.10	256	4.80	2.5	400	35	.1	1	.5	.3	1060	<1		10.0	1		
115H	851234	EMN	59 00	62	10	2	6	4	.1	530	3.1	1	1.30	53	7.60	2.3	360	20	.1	1	.5	.2	1120	1		10.0	1		
115H	851236	EMN	59 00	66	14	1	8	6	.1	1170	2.7	1	1.70	64	12.8	2.7	300	35	.2	1	1.0	.2	1040	2		10.0	1		
115H	851237	EMN	59 00	51	10	2	8	4	.1	415	3.1	1	1.50	43	2.40	2.0	200	35	.1	1	.5	.2	940	<1		10.0	1		
115H	851238	EMN	59 00	50	10	3	7	5	.1	480	3.6	1	1.50	37	7.60	2.4	340	20	.1	1	1.0	.2	1000	<1		10.0	1		
115H	851239	EMN	59 00	53	18	1	9	7	.1	670	5.4	1	1.80	67	6.60	2.9	320	38	.2	1	.5	.3	940	<1		10.0	1		
115H	851240	JL	47 00	42	13	1	8	5	.1	345	3.6	1	1.40	29	10.8	2.0	270	33	.1	1	.5	.3	1120	2		10.0	1		
115H	851242	JL	47 00	68	27	5	23	8	.1	640	6.3	1	1.80	53	10.0	2.3	300	40	.2	1	2.0	.4	1000	3		10.0	1		
115H	851243	JL	47 00	26	10	1	10	4	.1	190	3.6	1	1.20	19	3.40	2.0	180	25	.1	1	.5	.2	900	<1		10.0	1		
115H	851244	JL	47 00	36	13	1	8	4	.1	515	4.1	1	1.50	53	11.0	2.2	180	33	.1	2	1.0	.3	980	8		10.0	1		
115H	851245	EMN	59 10	49	15	6	8	6	.1	420	8.1	1	1.70	75	7.40	1.4	300	35	.1	1	.5	.4	1100	2		10.0	1		
115H	851247	EMN	59 20	51	16	5	7	7	.1	430	9.0	1	1.90	85	8.80	1.4	280	38	.1	1	.5	.4	1180	1		10.0	1		
115H	851248	JL	47 00	35	15	1	9	5	.1	320	4.5	1	1.60	35	8.40	1.8	200	33	.1	2	.5	.3	980	<1		10.0	1		
115H	851249	TV	42 00	41	16	3	10	6	.1	495	8.6	1	1.60	53	4.20	1.9	250	35	.1	1	1.0	.3	940	<1		10.0	1		
115H	851250	TV	42 00	79	36	3	12	12	.1	5050	27.0	1	2.70	208	9.00	2.3	260	50	.4	1	2.0	.6	780	3		10.0	1		
115H	851251	TV	42 00	40	18	3	8	5	.1	305	3.6	1	1.50	37	8.20	2.2	300	33	.1	1	.5	.2	940	3		10.0	1		
115H	851252	EMN	59 00	47	15	1	9	4	.1	290	2.7	1	1.40	35	7.00	2.0	310	30	.2	1	3.0	.2	940	2		10.0	1		
115H	851253	EMN	59 00	45	12	2	7	4	.1	450	4.5	1	1.60	59	2.40	2.7	230	38	.1	8	1.0	.3	1160	2		10.0	1		
115H	851254	TV	42 00	46	13	2	9	5	.1	405	4.9	1	1.60	69	9.60	2.4	240	33	.2	1	1.0	.3	1140	3		10.0	1		
115H	851255	JL	47 00	49	15	3	11	6	.1	320	12.1	1	1.90	43	6.40	2.5	240	35	.2	1	1.0	.4	1000	2		10.0	1		
115H	851256	JL	47 00	49	14	3	9	5	.1	375	5.8	1	1.70	64	4.00	2.4	290	38	.2	1	.5	.3	1120	4		10.0	1		
115H	851257	TV	42 00	68	17	2	14	6	.1	990	6.3	1	2.10	2350	15.6	2.0	340	30	.4	1	4.0	.5	1140	<1		10.0	1		
115H	851258	TV	42 00	51	18	3	13	8	.1	1190	5.4	1	2.00	107	10.0	1.9	280	38	.2	1	3.0	.3	960	1		10.0	1		
115H	851259	TVD	58 00	38	15	3	12	6	.1	340	4.5	1	1.60	32	2.40	1.8	250	35	.2	1	1.0	.3	1080	2		10.0	1		
115H	851260	TV	42 00	42	15	3	13	6	.1	390	6.3	1	1.60	53	19.0	2.2	260	38	.2	1	.5	.3	1080	1		10.0	1		
115H	851262	TV	42 10	47	25	3	17	9	.1	435	7.2	1	1.80	35	5.80	1.3	250	40	.2	2	1.0	.3	1020	1		10.0	1		
115H	851263	TV	42 20	54	41	3	22	9	.1	515	9.0	1	2.00	48	7.40	2.1	280	40	.2	2	3.0	.3	980	2		10.0	1		
115H	851264	TGDN	42 00	50	23	5	18	8	.1	425	7.2	1	1.80	27	12.6	1.8	290	40	.1	1	.5	.3	1000	<1		10.0	1		
115H	851265	TGDN	42 00	65	55	6	27	10	.1	610	10.8	1	2.30	53	5.40	1.9	360	45	.1	1	2.0	.3	860	2		10.0	1		
115H	851266	JL	47 00	38	17	5	11	5	.1	320	4.9	1	1.40	43	6.20	1.6	230	28	.1	1	.5	.3	1220	4		10.0	1		
115H	851267	JL	47 00	38	13	3	10	4	.1	200	7.2	1	1.00	48	10.0	2.3	220	23	.1	2	3.0	.3	1100	1		10.0	1		
115H	851268	OMCV	60 00	39	14	3	10	5	.1	285	4.1	1	1.50	40	2.20	2.0	250	35	.1	1	.5	.3	1060	5		10.0	1		
115H	851269	OMCV	60 00	38	14	3	11	5	.1	315	4.9	1	1.30	35	6.20	2.0	200	25	.1	1	2.0	.3	1160	<1		10.0	1		
115H	851270	MOCV	60 00	44	13	18	10	5	.1	340	10.8	1	1.40	32	11.2	2.2	180	30	.1	1	1.0	.5	1100	2		10.0	1		
115H	851271	JKT	51 00	44	17	6	9	4	.1	250	9.1	1	1.60	29	6.40	1.9	200	35	.1	1	.5	.8	1180	18	5	10.0	1	10.0	1
115H	851272	JKT	51 00	50	19	8	11	6	.1	375	8.1	1	1.50	69	9.40	2.4	190	35	.1	1	2.0	.5	1100	2		10.0	1		
115H	851273	OMCV	60 00	54	10	1	8	4	.1	1300	3.5	1	1.20	48	8.00	2.3	220	30	.1	1	3.0	.3	920	132	62	10.0	1	10.0	1
115H	851274	OMCV	60 00	42	8	1	8	5	.1	125	4.1	1	1.00	48	5.60	1.5	190	25	.1	1	.5	.2	1060	<1		10.0	1		
115H	851275	OMCV	60 00	45	14	4	11	5	.1	460	5.0	1	1.20	43	7.00	2.0	240	23	.1	3	.5	.3	1140	<1		10.0	1		
115H	851276	OMCV	60 00	48	20	3	11	9	.1	545	6.1	1	1.90	27	2.00	2.7	220	45	.1	1	.5	.2	1120	<1		10.0	1		
115H	851277	JL	47 00	29	9	1	5	4	.1	545	2.5	1	1.30	35	5.60	2.9	290	25	.1	4	.5	.1	1200	1		10.0	1		

REGIONAL STREAM SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA, YUKON 1985, GSC-OF 1219, NGR 84-1985, NTS 115H

MAP	ID	ROCK TYPE	A G RP E ST	ZN	CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	LOI	U	F	V	CD	W	SN	SB	BA	AU	AU-R	WT1	D	D	
																											L	L	
115H	851168	MQM	41 00	42	12	1	9	6	.1	535	4.1	1	1.50	49	4.60	3.6	400	35	.2	2	2.0	.2	920	<1	10.0	1			
115H	851169	PM	09 00	43	16	3	10	6	.2	350	3.7	1	1.60	74	9.20	4.8	390	35	.2	2	1.0	.2	800	<1	10.0	1			
115H	851170	TGDN	42 00	59	28	1	11	7	.2	305	3.3	1	1.50	105	8.20	4.0	380	38	.4	1	1.0	.2	780	<1	10.0	1			
115H	851171	TGDN	42 00	60	42	3	37	13	.2	400	18.3	1	3.00	74	6.60	2.9	430	88	.1	1	.5	.2	660	3	10.0	1			
115H	851172	TGDN	42 00	47	16	3	11	7	.1	565	5.8	1	1.60	56	5.40	2.9	370	35	.2	1	.5	.2	900	<1	10.0	1			
115H	851173	MQM	41 00	56	14	1	10	6	.1	955	5.8	1	1.70	56	6.20	3.3	370	33	.2	1	.5	.2	960	2	10.0	1			
115H	851174	MQM	41 00	41	14	2	8	5	.1	575	5.0	1	1.70	39	3.80	3.3	390	38	.1	1	.5	.2	840	644	6	10.0	1	10.0	1
115H	851176	MQM	41 00	110	26	2	16	8	.1	2900	7.5	1	2.70	112	10.0	1.9	480	50	.4	1	.5	.3	860	6	10.0	1			
115H	851177	MQM	41 00	64	22	1	14	9	.1	950	7.5	1	2.70	70	5.40	2.3	450	68	.2	1	2.0	.2	840	64	5	10.0	1	10.0	1
115H	851178	MQM	41 00	60	17	2	11	7	.2	425	3.3	1	1.90	112	11.8	3.3	430	40	.1	1	1.0	.1	820	311	4	10.0	1	10.0	1
115H	851179	MQM	41 00	46	20	1	10	6	.2	395	5.0	1	1.60	91	15.2	5.4	400	40	.2	1	.5	.1	760	6	10.0	1			
115H	851180	MQM	41 00	44	11	1	9	5	.2	700	5.0	1	1.40	46	4.40	3.2	330	28	.2	1	.5	.2	880	<1	10.0	1			
115H	851182	MQM	41 10	35	6	1	4	3	.1	350	1.2	1	1.00	25	1.40	1.6	380	20	.1	1	.5	.1	1140	<1	10.0	1			
115H	851183	MQM	41 20	38	6	1	5	2	.1	345	1.7	1	1.00	28	1.60	1.4	340	20	.2	1	.5	.1	1080	<1	10.0	1			
115H	851184	MQM	41 00	38	7	1	4	2	.1	230	1.7	1	1.00	39	2.60	2.1	300	20	.2	1	.5	.1	1000	<1	10.0	1			
115H	851185	MQM	41 00	30	5	1	3	3	.1	315	1.7	1	1.00	21	2.80	1.8	340	18	.2	1	.5	.1	1120	<1	10.0	1			
115H	851187	MQM	41 00	44	10	1	7	4	.1	490	3.7	1	1.30	42	3.20	2.3	360	28	.2	1	.5	.4	1020	1	10.0	1			
115H	851188	MQM	41 00	60	15	1	10	6	.1	735	3.3	1	1.60	46	6.00	2.1	340	45	.1	1	.5	.2	860	<1	10.0	1			
115H	851189	MQM	41 00	88	20	1	13	16	.1	3350	13.3	6	3.00	105	14.8	2.4	410	43	.2	1	1.0	.2	860	<1	10.0	1			
115H	851190	MQM	41 00	37	24	2	10	5	.1	200	2.5	1	1.30	105	4.40	3.8	380	35	.2	1	.5	.2	900	<1	10.0	1			
115H	851191	TGDN	42 00	40	9	1	6	3	.1	290	2.5	1	1.10	63	3.60	1.8	360	30	.1	1	.5	.1	1000	<1	10.0	1			
115H	851192	TGDN	42 00	58	13	1	8	5	.1	690	4.1	1	1.60	77	4.80	3.4	400	35	.1	1	.5	.2	1000	<1	10.0	1			
115H	851193	TGDN	42 00	53	14	1	9	5	.1	650	4.1	1	1.60	77	6.40	2.9	370	35	.1	1	.5	.2	880	<1	10.0	1			
115H	851194	TGDN	42 00	52	14	1	8	5	.1	415	3.7	1	1.60	46	5.20	2.3	320	45	.1	1	.5	.2	740	<1	10.0	1			
115H	851195	TGDN	42 00	53	20	2	10	6	.1	470	3.7	1	1.50	84	11.0	4.7	440	40	.2	1	5.0	.2	820	1	10.0	1			
115H	851196	TGDN	42 00	38	12	1	7	5	.1	255	2.9	1	1.30	28	2.20	1.9	260	35	.1	1	.5	.2	760	<1	10.0	1			
115H	851197	TGDN	42 00	36	15	1	8	5	.1	395	4.6	1	1.60	21	1.80	2.2	340	40	.1	1	.5	.3	800	<1	10.0	1			
115H	851198	TGDN	42 00	30	14	2	8	5	.1	320	4.1	1	1.20	28	1.20	1.3	280	28	.1	1	.5	.2	800	<1	10.0	1			
115H	851199	TGDN	42 00	38	13	1	6	5	.1	350	2.9	1	1.20	53	3.40	2.0	340	33	.4	1	.5	.1	860	<1	10.0	1			
115H	851200	TGDN	42 00	39	13	1	8	5	.1	405	2.9	1	1.20	63	3.40	2.0	380	35	.4	1	.5	.1	880	2	10.0	1			
115H	851202	TGDN	42 10	31	12	1	8	4	.1	165	3.3	1	1.20	32	2.40	2.8	280	53	.1	1	.5	.3	720	<1	10.0	1			
115H	851203	TGDN	42 20	33	13	1	8	5	.1	200	4.1	1	1.30	32	2.60	3.0	320	55	.2	1	.5	.3	720	23	5	10.0	1	10.0	1
115H	851204	TGDN	42 00	27	10	1	7	4	.1	165	2.9	1	1.10	63	1.40	1.6	320	45	.1	1	.5	.2	740	<1	10.0	1			
115H	851205	TV	42 00	35	14	1	14	6	.1	150	3.3	1	1.20	39	4.00	2.5	340	35	.1	1	.5	.1	800	2	10.0	1			
115H	851206	TV	42 00	70	10	1	32	26	.1	1170	17.4	1	4.50	56	15.2	1.2	340	105	.1	1	.5	.3	500	2	10.0	1			
115H	851207	TV	42 00	63	69	1	15	20	.2	1040	5.4	1	3.50	77	9.20	1.1	330	85	.1	1	.5	.3	480	3	10.0	1			
115H	851208	TV	42 00	45	24	3	13	6	.1	345	5.4	2	1.50	56	4.80	2.0	400	33	.1	1	.5	.3	1020	3	10.0	1			
115H	851209	TV	42 00	46	68	1	10	7	.1	1020	4.1	1	1.50	126	12.0	4.2	420	35	.2	1	.5	.1	800	1	10.0	1			
115H	851210	TV	42 00	35	35	1	7	5	.1	345	4.1	1	1.30	35	3.40	2.0	420	38	.1	1	.5	.2	960	<1	10.0	1			
115H	851211	TV	42 00	39	25	1	7	6	.1	505	5.0	1	1.60	35	2.80	1.3	540	33	.1	1	.5	.2	1000	<1	10.0	1			
115H	851212	TV	42 00	53	26	1	5	4	.1	565	2.1	1	1.10	98	14.2	2.8	520	25	.2	1	.5	.1	700	<1	10.0	1			
115H	851213	TGDN	42 00	56	18	1	8	5	.1	210	1.7	1	1.40	112	7.80	4.5	440	35	.2	1	.5	.1	840	<1	10.0	1			
115H	851214	TV	42 00	45	15	2	4	4	.1	185	1.2	1	.90	56	2.60	1.5	380	33	.2	1	.5	.1	940	5	10.0	1			
115H	851215	TGDN	42 00	27	14	2	5	4	.1	390	2.5	1	1.00	39	2.60	1.5	380	33	.1	1	.5	.1	960	5	10.0	1			
115H	851216	TGDN	42 00	38	13	1	8	5	.1	300	2.9	1	1.20	35	3.40	2.0	330	33	.2	1	.5	.2	940	6	10.0	1			
115H	851217	TGDN	42 00	41	12	4	7	5	.1	370	3.6	1	1.50	35	1.80	2.2	300	33	.1	1	.5	.3	1040	190	3	10.0	1	10.0	1
115H	851218	TGDN	42 00	41	11	1	8	5	.1	440	4.5	1	1.40	40	11.0	2.9	310	30	.1	3	.5	.3	940	<1	10.0	1			
115H	851220	TGDN	42 00	32	8	2	6	4	.1	185	2.7	1	1.20	32	7.40	1.7	360	25	.2	1	.5	.1	1000	<1	10.0	1			
115H	851222	TGDN	42 10	40	16	2	7	5	.1	400	3.6	1	1.50	32	4.80	2.0	310	35	.2	1	.5	.2	1080	<1	10.0	1			
115H	851223	TGDN	42 20	34	11	1	7	4	.1	345	3.6	1	1.50	13	5.20	2.4	290	35	.2	1	.5	.3	1060	<1	10.0	1			

REGIONAL STREAM SEDIMENT AND WATER GEOCHEMICAL RECONNAISSANCE DATA, YUKON 1985, GSC-OF 1219, NGR 84-1985, NTS 115H

MAP	ID	ROCK TYPE	A G RP E ST																			D							
				ZN	CU	PB	NI	CO	AG	MN	AS	MO	FE	HG	LOI	U	F	V	CD	W	SN	SB	BA	AU	AU-R	WT1	WT2		
5H	851002	DMCV	60 00	45	12	2	9	5	.1	295	2.9	1	1.50	40	7.00	2.1	260	35	.2	1	1.0	.2	960	2	10.0	1			
5H	851003	DMCV	60 00	40	15	4	10	6	.1	435	4.1	1	1.60	24	3.00	1.6	220	45	.1	1	.5	.2	1020	60	9	10.0	1	10.0	1
5H	851004	TV	42 00	34	47	1	38	10	.1	365	2.5	1	2.00	40	8.80	1.3	210	65	.1	1	1.0	.2	780	2		10.0	1		
5H	851005	TV	42 00	77	14	1	10	20	.1	7550	9.1	2	3.30	108	19.8	1.1	300	40	.1	1	2.0	.2	1100	<1		10.0	1		
5H	851006	TV	42 00	41	49	3	10	6	.1	375	3.3	1	1.40	80	12.8	2.0	260	35	.1	1	2.0	.2	900	<1		10.0	1		
5H	851007	TGDN	42 00	50	21	1	12	7	.1	1230	2.5	1	1.90	48	8.60	1.2	350	48	.1	1	2.0	.2	980	1630	383	10.0	1	7.5	1
5H	851008	TGDN	42 00	36	12	1	10	5	.1	320	2.5	1	1.30	40	4.40	2.5	260	33	.1	1	.5	.2	920	<1		10.0	1		
5H	851009	TV	42 10	44	50	1	15	9	.1	750	9.5	1	1.90	104	7.40	1.7	300	38	.1	2	1.0	.3	860	2		10.0	1		
5H	851010	TV	42 20	48	61	2	16	10	.1	975	10.8	1	2.10	112	9.00	1.9	480	43	.1	4	1.0	.3	800	<1		10.0	1		
5H	851011	TV	42 00	42	28	1	20	9	.1	1550	11.6	1	2.00	80	5.00	1.8	400	50	.1	1	.5	.2	840	<1		10.0	1		
5H	851012	TGDN	42 00	37	18	1	14	7	.1	420	4.1	1	1.70	20	3.80	2.1	520	45	.1	1	3.0	.2	900	<1		10.0	1		
5H	851013	TGDN	42 00	50	21	1	14	8	.1	625	5.0	1	2.00	48	5.60	2.2	520	53	.1	1	.5	.2	820	<1		10.0	1		
5H	851014	TGDN	42 00	40	19	1	15	8	.1	365	3.3	1	1.70	48	3.80	2.3	500	48	.1	1	1.0	.2	820	2		10.0	1		
5H	851015	TGDN	42 00	39	25	1	14	7	.1	790	4.1	1	1.50	56	7.60	1.7	480	40	.1	1	2.0	.2	860	4		10.0	1		
5H	851017	TGDN	42 00	180	27	15	14	8	.2	1850	6.6	1	2.40	80	17.8	10.6	520	30	.6	1	2.0	.2	740	<1		10.0	1		
5H	851018	TGDN	42 00	130	27	12	14	6	.1	590	7.5	1	2.00	72	5.60	7.3	520	33	.4	1	2.0	.3	820	<1		10.0	1		
5H	851019	TGDN	42 00	42	13	1	19	6	.1	385	3.3	1	1.50	28	3.80	1.7	300	35	.1	1	1.0	.2	1020	<1		10.0	1		
5H	851020	MQM	41 00	38	9	1	8	5	.1	710	2.5	1	1.50	32	4.40	2.2	300	35	.2	1	.5	.1	940	<1		10.0	1		
5H	851022	TGDN	42 10	35	8	1	6	4	.1	295	2.5	1	1.70	24	2.40	1.2	380	45	.1	1	.5	.1	1060	<1		10.0	1		
5H	851023	TGDN	42 20	35	8	1	7	4	.1	285	2.5	1	1.40	24	1.60	1.8	340	30	.1	1	.5	.1	1040	<1		10.0	1		
5H	851024	TGDN	42 00	46	21	1	10	7	.1	2550	13.7	1	2.10	42	6.00	2.3	330	35	.1	1	2.0	.2	1180	<1		10.0	1		
5H	851025	TGDN	42 00	43	15	1	8	5	.1	590	3.3	1	1.80	40	6.40	1.9	340	45	.1	1	2.0	.1	1040	301	5	10.0	1	5.0	2
5H	851026	TGDN	42 00	38	16	2	10	5	.1	605	2.5	1	1.30	64	9.40	1.6	280	25	.2	1	2.0	.1	940	<1		10.0	1		
5H	851027	TGDN	42 00	45	20	1	15	7	.1	1850	6.6	1	2.10	52	6.20	1.7	340	43	.1	1	.5	.2	1160	5		10.0	1		
5H	851028	MQM	41 00	44	20	1	11	6	.1	740	5.0	1	1.70	48	4.20	2.2	330	38	.2	1	.5	.1	1000	2		10.0	1		
5H	851029	MQM	41 00	40	11	1	8	5	.1	390	2.9	1	1.60	28	3.60	2.8	360	40	.1	1	.5	.2	960	47	4	10.0	1	10.0	1
5H	851031	MQM	41 00	44	12	1	9	6	.1	730	4.1	1	1.70	40	4.40	3.1	400	38	.2	1	.5	.2	1100	<1		10.0	1		
5H	851032	MQM	41 00	35	9	1	7	4	.1	490	2.1	1	1.20	44	2.60	1.9	380	30	.1	1	.5	.1	1020	1		10.0	1		
5H	851033	MQM	41 00	45	14	1	9	6	.1	730	4.1	1	1.90	44	5.20	3.1	360	45	.2	1	2.0	.2	1060	<1		10.0	1		
5H	851034	MQM	41 00	51	23	1	13	8	.1	1060	7.5	1	2.20	60	3.20	2.5	340	48	.2	1	.5	.2	1060	173	5	10.0	1	10.0	1
5H	851035	MQM	41 00	39	14	1	8	6	.1	540	3.3	1	2.00	48	3.40	2.7	340	50	.1	1	.5	.1	980	<1		10.0	1		
5H	851036	MQM	41 00	37	25	1	6	4	.1	435	4.6	1	1.50	64	4.80	2.3	360	35	.1	1	2.0	.1	880	<1		10.0	1		
5H	851037	MQM	41 00	29	10	1	6	5	.1	240	1.2	1	.80	40	3.20	1.5	260	18	.1	1	3.0	.1	960	<1		10.0	1		
5H	851038	MQM	41 00	47	19	1	8	5	.1	425	2.9	1	1.70	84	6.40	3.3	300	38	.2	1	.5	.1	900	<1		10.0	1		
5H	851039	MQM	41 00	58	37	2	11	6	.2	620	5.8	1	2.00	88	12.8	12.0	340	55	.2	1	.5	.3	880	4		10.0	1		
5H	851040	MQM	41 00	40	26	1	10	9	.2	850	4.1	1	2.20	68	5.60	2.7	340	50	.2	1	.5	.3	840	<1		10.0	1		
5H	851042	MQM	41 00	47	10	2	5	4	.1	275	1.7	1	1.30	68	5.40	3.8	360	35	.1	1	1.0	.1	900	2		10.0	1		
5H	851043	MQM	41 00	36	18	1	7	5	.1	435	2.5	1	1.30	60	4.80	3.6	340	35	.1	1	.5	.1	840	4		10.0	1		
5H	851044	MQM	41 00	51	10	1	6	7	.1	1180	2.9	1	1.70	52	2.00	4.8	320	35	.2	1	.5	.1	1000	4		10.0	1		
5H	851045	MQM	41 10	32	13	1	3	3	.2	275	7.5	1	1.10	28	3.60	3.4	300	28	.1	1	.5	.2	600	<1		10.0	1		
5H	851046	MQM	41 20	32	12	1	3	4	.1	250	6.6	1	1.10	40	3.00	2.5	380	28	.1	1	1.0	.2	580	<1		10.0	1		
5H	851047	MQM	41 00	72	8	7	5	3	.2	240	14.1	1	1.20	108	1.40	3.9	360	28	.6	1	1.0	.4	960	6		10.0	1		
5H	851048	MQM	41 00	69	17	3	9	6	.2	670	15.8	1	1.90	120	10.2	6.8	460	40	.4	1	2.0	.3	840	6		10.0	1		
5H	851049	MQM	41 00	59	14	1	7	6	.1	790	7.5	1	2.10	96	8.60	4.4	400	38	.2	1	.5	.3	880	<1		10.0	1		
5H	851051	MQM	41 00	27	4	1	3	4	.1	190	2.5	1	1.60	28	1.40	2.7	500	43	.1	1	.5	.2	960	<2		5.0	2		
5H	851052	MQM	41 00	57	12	3	7	5	.1	505	7.1	1	1.90	80	8.80	5.1	440	40	.2	1	.5	.3	840	<1		10.0	1		
5H	851053	MQM	41 00	49	17	1	9	7	.1	780	6.2	1	1.80	48	4.80	3.3	360	40	.2	1	.5	.2	880	3		10.0	1		
5H	851054	MQM	41 00	110	10	1	11	19	.1	5700	5.0	1	3.20	68	9.40	2.3	310	40	.4	1	.5	.2	940	3		10.0	1		
5H	851055	MQM	41 00	62	14	1	8	6	.1	885	2.1	1	1.80	68	7.60	4.6	380	33	.2	1	1.0	.2	860	1		10.0	1		
5H	851056	MQM	41 00	30	5	1	4	3	.1	880	1.7	1	1.10	36	3.20	2.3	370	23	.2	1	.5	.1	900	<1		10.0	1		

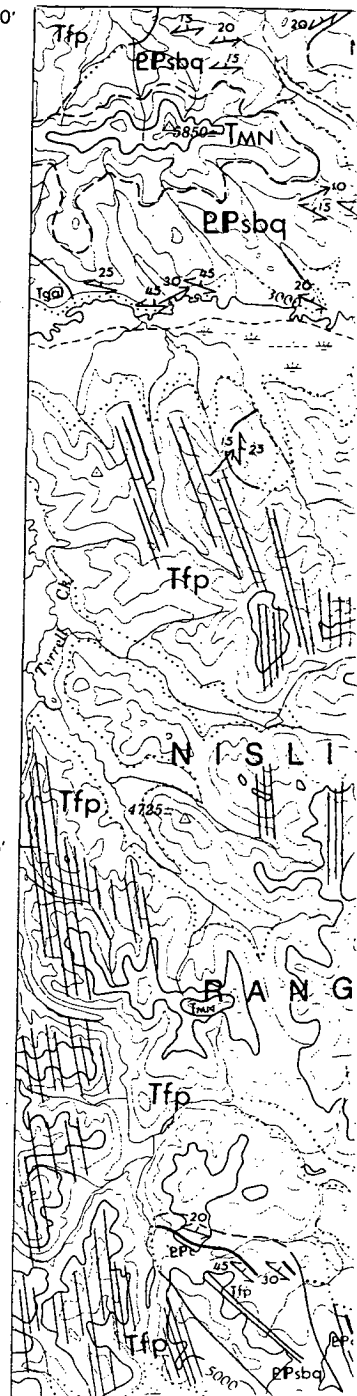


PRELIMINARY SERIES

138°00'

62°00'

LEGEND



EOCENE OR YOUNGER

- T<sub>LR</sub>** LITTLE RIDGE VOLCANICS: brown, purple and green basalt and flow breccia
- eT<sub>CV</sub>** CARMACKS GROUP: brown-weathering, brown augite olivine basalt and flow breccia
- T<sub>V</sub>** UNDIFFERENTIATED VOLCANICS: brown and green feldspar porphyry dyke and flow rocks of intermediate composition
- T<sub>VR</sub>** VARICOLOURED ACID TUFF: brightly coloured, light-weathering acid vitric crystal tuff, lapilli tuff and welded tuff; includes plugs and necks that are feeders to these extrusive rocks

EOCENE

- T<sub>MN</sub>** MOUNT NANSEN GROUP: dark grey to black weathering (blocky talus), dark greenish-grey, aphanitic, intermediate to acid, massive, tuff and tuff-breccia
- T<sub>FP</sub>** FELDSPAR PORPHYRY: orange and buff weathering light-coloured feldspar porphyry dyke and flow rocks of intermediate to acid composition; may include Nisling Range Alaskite (T<sub>gal</sub>) undifferentiated. Where these rocks are represented by intrusive phases this is indicated by a lined pattern defining the trend of dykes, where they are extrusive this pattern is not shown
- T<sub>gal</sub>** NISLING RANGE ALASKITE: fine-grained, miarolitic, buff-weathering leucogranite or alaskite; may include Coffee Creek (T<sub>g</sub>), and feldspar porphyry (T<sub>fp</sub>) undifferentiated
- T<sub>g</sub>** COFFEE CREEK GRANITE: coarse-grained, equigranular, buff-weathering, homogeneous biotite granite and quartz monzonite; includes Nisling Range Alaskite undifferentiated

- L<sub>Mdim</sub>** HORNBLENDE DIORITE: melanocratic fine-grained equigranular biotite hornblende diorite; may include Ruby Range granodiorite (Rgd) undifferentiated

LOWER CRETACEOUS AND/OR UPPER JURASSIC

- L<sub>Kt</sub>** TANTALUS FORMATION: chert pebble conglomerate with minor interbedded sandstone and shale

LOWER AND MIDDLE JURASSIC

- J<sub>L</sub>** LABERGE GROUP: poorly sorted, white and buff weathering, medium bedded to massive sandstone with interbedded pebble and boulder conglomerate and minor shale

CENOZOIC

equigranular biotite hornblende granodiorite to quartz diorite; commonly shows layering or foliation by alignment of mafics; includes pink quartz monzonite (Rqm) and porphyritic quartz monzonite (Mqmp) undifferentiated

**Rgd** RUBY RANGE GRANODIORITE: medium-grained, equigranular, grey, hornblende biotite granodiorite; includes undifferentiated diorite (iMdim); may include biotite granite (Tg)

**Rvb** MASSIVE GREEN VOLCANICS: massive dark green epidotized basalt; minor tuff breccia

**EPm** AMPHIBOLITE: dark green fine-grained amphibolite; includes inter-foliated schist and gneiss

**EPsqr** HORNFELSE SCHIST: dark purplish brown staurolite cordierite biotite hornfels with relict schistose texture

**EPc** MARBLE: light grey and white coarsely crystalline, locally finely laminated fetid marble

**EPsbq** BIOTITE SCHIST: brown grey weathering, recessive, chlorite muscovite biotite quartz schist and micaceous quartzite; garnetiferous; minor amphibolite, marble and skarn

PROTEROZOIC AND/OR PALEOZOIC

- Geological boundary (defined, approximate, assumed) .....
- Bedding tops known (horizontal, inclined, vertical) .....
- Foliation (inclined, vertical) .....
- Lination (horizontal, inclined) .....
- Trend of dykes (from air photographs) .....
- Fault (defined, inferred) .....
- Jointing (inclined, vertical) .....
- Antiform (location approximate) .....
- Synform (location approximate) .....
- Mineral occurrence .....

METALS AND MINERALS

- Chalcopyrite...cp
- Magnetite....mag
- Scheelite...sh
- Sphalerite...sp

Geology by D.J. Tempelman-Kluit 1970, 1971, 1972

To accompany Paper 73-41 by D.J. Tempelman-Kluit

This preliminary edition may be subject to revision and correction

Geological cartography by the Geological Survey of Canada

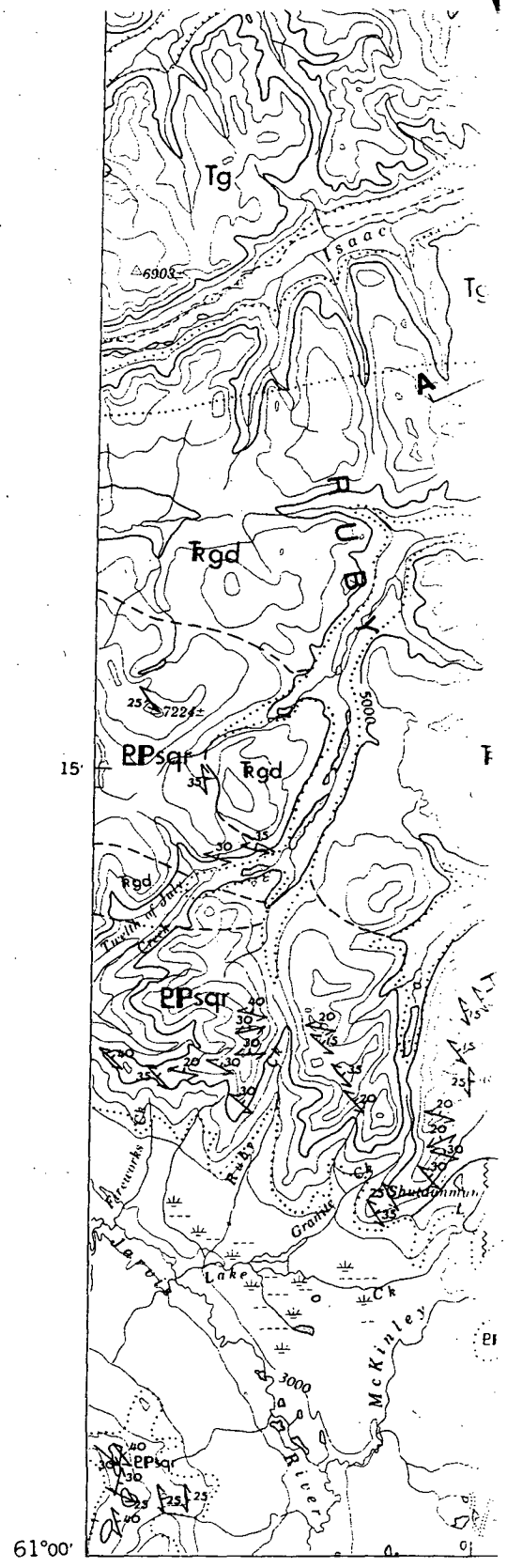
Any revisions or additional geological information known to the user would be welcomed by the Geological Survey of Canada

Base-map at the same scale published by the Surveys and Mapping Branch, Department of Energy, Mines and Resources in 1971

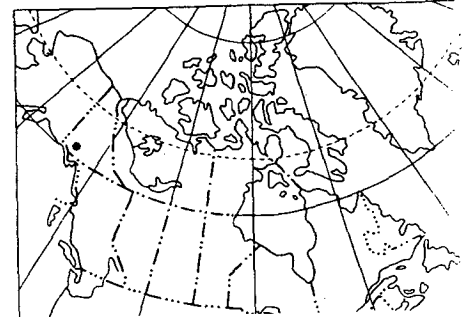
Copies of the topographical edition of this map may be obtained from the Canada Map Office, Department of Energy, Mines and Resources, Ottawa

Magnetic declination 1973 varies from 30°22' easterly at centre of west edge to 31°10' easterly at centre of east edge. Mean annual change 3.7' westerly

Elevations in feet above mean sea-level



61°00' 138°00' 45'  
Copies of this map may be obtained from the Geological Survey of Canada, Ottawa



YMIP<sup>0058</sup>

Dairy 2000 Field Season

July 19

PRIORITIES



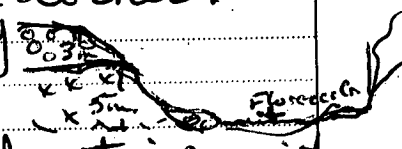
- 8 Drove into Whse. and
- 9 met C.B. Got together
- 10 pump, sluice, fuel,
- 11 grub & personal gear
- 12 then drove to Minto.
- 13 Flew from Minto to
- 14 Florence Cr. A major
- 15 outwash valley / fault zone
- 16 occurs at contact between massive
- 17 green volcanics and granodiorite
- 18 granites, going N-S along
- 19 the contact + into the green
- 20 volcanics extensive gossans
- 21 exist. We then followed
- and outwash channel to
- Florence Cr. in the granites,
- which appeared competent
- and unaltered. Found Posts
- on Florence dated one week
- earlier by B. Woodga

July 20

PRIORITIES



- 8 Set up sluice in side
- 9 L.L. bench corner and
- 10 started washing material
- 11 through. Bedrock/gravel
- 12 contact is approx. 5m
- 13 to 7m above present creek
- 14 channel. The gravels are
- 15 a mix of felsic granites
- 16 and heavy green volcanics
- 17 minor ultramafic material.
- 18 This material green volcanics
- 19 are not seen anywhere in
- 20 the Florence Cr. bedrock
- 21 exposure. The mapped glacial
- flow came from South to
- North spreading these green
- volcanics across these felsic
- granites of Florence Cr.
- watershed. We exposed
- and area of 3.5m x 4m, x 3m(d)
- on the bench corner.
- 19 Bedrock was blocky granite + hard to
- 20 clean. Cleaned up the little sluice box twice as it
- 21 was plugging in black sand.



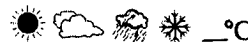
31 JULY



PRIORITIES

PRIORITIES

July 18



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Got off work and  
packed up truck, gas &  
fueled up. Went to sleep  
and woke up 3:30 am 2nd →  
to leave, Dempster Cou  
to Whse.



July 21



PRIORITIES

AUGUST 5



- 8 Finished as good as time  
9 allowed cleaning the blocky  
10 bedrock and cleaned up  
11 the shiny cons. into a  
12 5-gal. pail. Noticed some  
13 silty flecks in con. with  
14 gold. Packed up gear over  
15 the chapter pad.  
16 Flying back to Hinto we  
17 followed the contact of the  
18 gr. volcanics and the  
19 felsic granites. There is  
20 a lot of bedrock exposure  
21 in the canyon area of the  
contact. The gossens are  
throughout the whole area  
that was observed. This  
with the elevated Ni-Cu  
silt (gov't) that are along  
it, demand a closer  
look. This will be  
the next step to check  
this area ~~etc~~  
- Bill Labarge for assay work

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10 AUGUST

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PRIORITIES

8 Traversed up creek (Mariposa)  
 9 At the upper end of the last  
 10 set cut a number of  
 11 quartz veins and ~~the~~ felsic  
 12 granitic dike came through  
 the cleaved bedrock, in  
 which a hole had dug a  
 bedrock drain.

13 WX-2000-018 - Soil of volcanic  
 tuff to altered felsic volcanic  
 14 in Cr. Cr. bank. Volcanic  
 unit showing along bank for  
 15 about 100m in flat mat.

16 WA-2000-019 - Hanging wall  
 granitic, quartz of quartz  
 17 vein in creek bottom  
 chloritic alteration w pyrite

18 WR-2000-020 - Decayed  
 19 granitic w quartz stringers  
 minor py. 50m Superstean  
 20 in creek bottom outcrop  
 from WR-2000-019

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AUGUST 11

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PRIORITIES

8 Karl and I took off up  
 9 Carter Cr. While Vern went  
 over to right limit side of  
 10 Mariposa Cr. where the ground  
 Shaun R. had staked last  
 11 year had elapsed. Karl +  
 I found some old workings  
 12 where we heard that some  
 coarse gold had been found  
 13 on the upper end by the  
 old boys <sup>Ernie & Essie</sup> who had mined  
 14 on our placer ground on  
 Mariposa Cr. I traversed  
 15 over to Mariposa Cr. from  
 Carter Cr. Took samples near

16 WX-2000-021 - Oxidized felsic  
 porphyritic volcanic w quartz  
 17 vein in soil coming down  
 ridge into Mariposa trail. Col.

18 WX-2000-022 - Soil taken 60m  
 19 East of WX-2000-006 (111 ppb Au) up  
 15° slope

20 WX-2000-023 - Soil and rock fr.  
 WR-2000-024 - 006 hole 40m deeper

21 <sup>022 025</sup> WX-2000-025 - Soil taken 50m S of  
 022 along contour  
 -023 + 024

12 AUGUST



PRIORITIES

8 Went looking for old  
showings on <sup>W. of</sup> Mariposa  
Minfil # 15 (115.6).

9 Found some trenches around  
the spot where it should  
be, but no min. was  
seen in the schist. Some  
discontinuous quartz veining  
was there, which I could  
not bring myself to sample.

10 traversing along the  
hillside (around 1 km  
downstream a 150m wide  
felic dyke crossed the  
road and hillside, running  
approx. NW-SE. I did some  
composite grabs of the  
decayed material (white)

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0-50m - WX-2000-026

50-100m WX-2000-027

100-150m WX-2000-028

The upper contact disappears  
into the creek (trib to Mariposa)

AUGUST 13



PRIORITIES

8 Packed up camp and Michael  
Bitterman gave us a drive  
to airstrip by their camp.  
Karl and Vern got out at  
Quartz Cr. airstrip and  
Stuart and I went back  
to Dawson.

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TAB-07

TAB-07

20 AUGUST



PRIORITIES

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AUGUST 21



PRIORITIES

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Flew off to Thistle Cr.  
 Set a truck #44 from  
 Stuart's camp and went  
 up to Bear showing.  
 Followed road up and  
 over Thistle / Kirkman  
 divide noticing E-W lineaments  
 of limonitic zones similar  
 to Bear showing zone. Will  
 check closer tomorrow.  
 Went back when I heard  
 chapter coming back into  
 camp w/ Marco's crew.  
 Marco did a site visit  
 to lower pit showing and  
 the upper Bear showing on  
 the Bear claim block.

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 trachya  
 disty  
 rey  
 2/19  
 pyrod  
 2/19

22 AUGUST



PRIORITIES

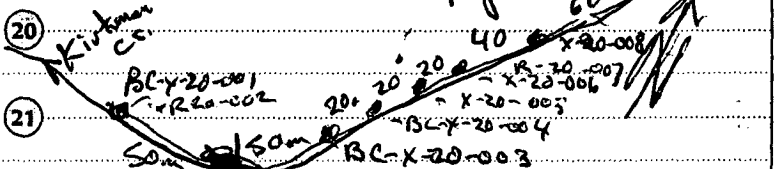
- 8 Followed up on cross
- 9 cutting lineaments along
- 10 Thistle-Kirkman road,
- 11 off the Bear claim block.
- 12 Going down the Kirkman
- 13 Rd. around 500m off the
- 14 Bear claim block an
- 15 extensive zone of iron (red)
- 16 stained soil was encountered.
- 17 The rock had disseminated
- 18 pyrite in it. I sampled the
- 19 West side of the road digging
- 20 into the wet bank behind the
- 21 influence of the cut. The

zone ran for 200m, which  
the road hit.  
Sampled BC-X-20-001 to  
BC-X-20-009

BC-R-20-002 - like schist but  
altered quartz vein beside

BC-X-20-001 (Grab)

- 18 BC-R-20-007 - limonitic, porphyritic
- 19 no disseminated pyrite.



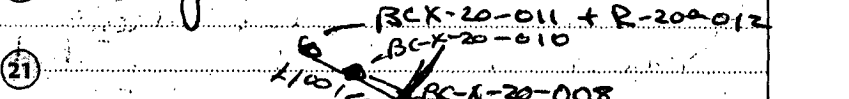
AUGUST 23



PRIORITIES

- 8 Went back to Kirkman Rd.
- 9 limonitic zone and tried
- 10 following the zone by
- 11 digging holes. Going to
- 12 the west I took 3 more <sup>100m</sup> <sup>+200m</sup>
- 13 samples. BC-X-20-010 (50m)
- 14 (750m) BC-X-20-011 and BC-R-20-012
- 15 011 + 012 where from the same
- 16 hole (70cm deep) 010 had
- 17 iron stained soil at 50cm
- 18 and some porphyritic texture
- 19 in the rock. 011 had more
- 20 schist in it, but some pyrite
- 21 in the rock. After this going

West I encountered only schist  
schist which I did not sample.  
I circled back (S) onto the road  
lower down and walked back  
up to where I sampled yesterday.  
Only minor alteration was seen  
on the way back up. On  
the east side of the road opposite  
BC-X-20-003 to 008. lots of  
organics were encountered.



24 AUGUST



PRIORITIES

- 8 Went up to the Bear showing  
 9 and traversed over to outcrop  
 10 of granitic plug. The plug  
 11 shows upon the SW side  
 12 of the Blueberry Thistle  
 13 West Limit dome. This is  
 14 not the same as ~~the~~ Postock's  
 15 Ogilvie Map where it is  
 16 shown as the central  
 17 feature of the dome.  
 18 I dug four holes along the  
 19 way. No min. or staining  
 20 was seen, only micaceous  
 21 schist (light brown) which  
 I don't figure is worth the  
 time to ~~the~~ sample & follow-up.  
 I've had enough of that worthless  
 blind sampling. It kills the  
 spirit of what prospecting is  
 about. I came down the ridge  
 into Stuart's cut where BR-99-13  
 to BR-99-17 where taken, then walked  
 downstream staking and checking  
 veins that were cleaned off by  
 placer mining. Tech had gotten  
 some numbers in this area that  
 had sparked their interest. Veins  
 are discontinuous in the bench cuts exposed.

AUGUST 25



PRIORITIES

- 8 Headed into town (Dawson City)  
 9 and recorded Bear Cub  
 10 claims 5 to 14 which covered  
 11 the zone extensions which  
 12 were off the Bear Claim Block.  
 13 These two zones are areas  
 14 that have been exposed  
 15 through rat work on the  
 16 road sand in a placer cut.  
 17 Stuart said he could get  
 18 us back out in two days.

26 AUGUST



PRIORITIES

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TRAK-07

AUGUST 27



PRIORITIES

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TRAK-07

Vern & I talked to Stuart about what time he could pick us up at Quartz Cr. strip. He said he was too busy today but tomorrow morning would work. We packed our gear & grub and for the morning.



28 AUGUST



PRIORITIES

- 8 Took off from Quartz Cr. strip to make it out to Thistle before 8am. Dave
- 9 picked up cup at the airstrip & back to their camp we went.
- 10 Got the ol' Chevy 4x4 fueled up, tuned up and over the mountain we went to Kirkman Cr. Neither one of us had been right down into Kirkman before. Once past the last traverse loop of the 23rd. the same amphibolite/sericite schist landing was seen for approx. 25 km. where it then changed to a coarse grained slightly sheared ~~gneiss~~ gneiss, (granitic) which continued down to the main Kirkman Cr. No obvious zones of mineralization were seen.
- 19 We followed the road all the way up to the backside (S) of Thistle Mtn overlooking Ballarat Cr. before turning back.

21

AUGUST 29



PRIORITIES

- 8 Got a 4 Wheeler from Dave and loaded it on the back of the Chevy and off for Thistle Mtn. we went via Kirkman Cr. and the upper end of Ballarat Cr. The road then went up over Thistle <sup>ptn.</sup> and down the ridge between Agate + Thistle Creek upper ends. Off to the east of Thistle Mtn. the dark green gneiss changed was cut by some felsic units which showed some staining and minor py. We sampled these down to 3600' between Agate and Thistle with 004, 007 + 009. Could be a decayed felspar schist. 004 was the approx. location of Sparkling Minerals 1648 samp. that ran 817 ppb Au. - 003 was out of a cat trench by side of road decayed gneiss. 005 was a greenstone in minor py. - 006 was a soil in break of hill slope. 008 was fr. another covered topographical E-W lineament in slope break. 009 like 008 fr. Kom South. It had more felspar in soil (light brown)

21

30 AUGUST



anomaly

PRIORITIES

- 8 Came down ridge and saddle,  
9 to check and see if lined  
10 on Kirkman Road cut across  
11 East to the upper end of Blue  
12 berry Cr. The whole cridol was  
13 gneiss to schist (dark green  
14 in lots of biotite). The only  
15 hole that came up as some  
16 cred staining in the soil was  
17 sample site BC-X-20-013. Went  
18 back to BC-X-20-001 to -009 <sup>same</sup>  
19 and started digging holes  
20 on each side of the road  
21 to figure-out the strike of the  
altered zone. The slope to the  
east and south became a huge  
sluff very quick (within 30m)  
to lots of organics. To the north  
and west it petered out to  
pure schist w/ no min. or  
discoloration. Went from  
there to take BX-2000-026  
to BR-2000-030 on 10m  
intervals from edge of schist  
into quartz feldspar wht (50m)

AUGUST 31



PRIORITIES

- 8 Went up Blueberry to Make +  
9 Jay's placer cut. Then traversed  
10 up and around the corner. The  
11 left limit slope of Blueberry was  
12 covered in organics and frozen was  
13 to the corner. At the corner <sup>was</sup> the OFP  
14 w/ limonite stain on <sup>a</sup> left limit  
15 ridge coming into the Blueberry  
16 valley. This was where we took  
17 BC-X-20-014, BC-X-20-015 +  
18 BC-R-20-016, being silt soil +  
19 rock. This was the only quartz-  
20 monzonite? quartz feldspar <sup>possibly</sup>  
21 that ~~was~~ <sup>was</sup> in the valley.  
Further up the valley around the  
corner of Blueberry we encountered  
only frozen side bank with  
angular Biotite gneiss (float)  
Decided to head back to  
lower creek just below the  
Bear Claims where we had  
some exposure from the  
placer work. Found some interesting  
quartz veins on BEAR CLAIM #12  
claim and sampled BC-R-20-017  
+ 018 and 019. 2m @ 15m to 018:  
1.5m @ 20m to 019 - 2.0m py. in quartz  
vein-strike (17N) <sup>in schist</sup>  
micaceous



PRIORITIES

PRIORITIES



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19 OCTOBER



PRIORITIES

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OCTOBER 20



PRIORITIES

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Vern went on a walk and identified the dyrite on Bishop Cr. in several places along the right limit. There is very little exposure of this rock unit. The Lyndon River low angle ~~bank~~ blanket of siltstone gives total coverage, except where the side creeks have cut through along the south face of the river valley. The access is a problem here with migger-head flats and dense valley sidehills.

21 OCTOBER

☀ ☁ 🌧 ✨ \_°C

PRIORITIES

- 8 Left Wisc. for the farm
- 9 Vern worked on 4 wheelers
- 10 access to the dunite on Bishop Cr. starting off on old cat trail
- 11 on the left limit of the Indian River flats. He found a small ridge coming out into the Indian River valley
- 12 that got above the swampy flats
- 13 & Nigger heads. He started slashing a trail in.
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OCTOBER 22

☀ ☁ 🌧 ✨ \_°C

PRIORITIES

- 8 Helped Vern ~~out~~ ~~with~~ going up Bishop for ~~tracing~~
- 9 Vern and I worked on trail access going up Bishop Cr. R.L. to Dunite subcrop area where he had sampled. We cut around 1 km. of trail from where he had left off yesterday
- 10 Some of the dunite has a fair bit of a silver sulfide in it maybe pentlandite?
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23 OCTOBER



PRIORITIES

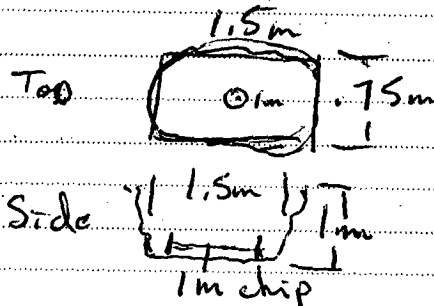
- ⑧ Vern, Kathy, Luke, & Maggie left for tour.
- ⑨ I continued the trail up
- ⑩ to "pin hill" which was still in denite. An old
- ⑪ survey pin marks the top of this small bald top of a hill. I've read that it is
- ⑫ the magnesium in the olivine of the denite that inhibits
- ⑬ vegetation growth on these outcrops of denite. This
- ⑭ seemed to be the case where I noticed the moss was
- ⑮ thin along the edge of the
- ⑯ ridge

OCTOBER 24



PRIORITIES

- ⑧ Got the pointer jack hammer
- ⑨ drill going, then loaded up
- ⑩ the wheelbarrow and headed up to
- ⑪ Bishop #1 sample site. Drilled
- ⑫ 3 holes in the bottom of Ken's
- ⑬ pit and blasted them off. I
- ⑭ cleaned out the loose and
- ⑮ got a 1m chip in fresh
- ⑯ rock. The pit measured
- ⑰ 1.5m wide x .75m x 1m
- ⑱ deep



Sample DWN-20001

UTM 07V 0597814  
7064367

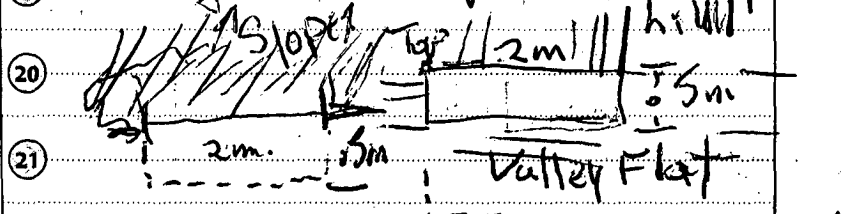
OCTOBER 28

30° ↘ Down slope  
 ☀ ☁ ☔ ❄ °C at 322°  
 and 40m  
 Fr. TR#1

8 A number of metamorphosed ultramafic units ~~is~~ showing exist in the PPa2 unit on the Teslin, Whitehorse, Lake Laberge, Spirit Lake map sheets. CT-CI → equivalent to CPA4 Ignorant research material

12 Went down to the base of the ridge from DW-20-001 where some scree and boulders were on the R.L. side of Bishop Cr. valley.  
 14 Blasted the moss and dirt away from the base of ~~the~~ what looked like solid rock. Drilled 4 holes 2-2', 1-1½' and 1-1' over a 1.5m section of cleaned rock. Loaded and blasted and dug out a 2m wide section of fresh diorite. Rock from here was a little darker than 001 sample. Somersville

18 DW-20-002 was a 2m whip along the base of this outcrop

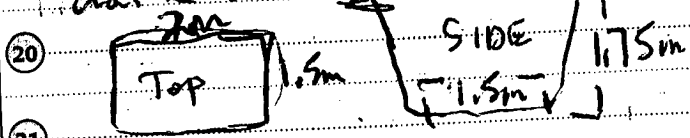


29 OCTOBER

☀ ☁ ☔ ❄ °C

PRIORITIES

- 8 Moved 50m @ 83° and up 20°
- 9 slope to TR#3 site.
- 10 This side slope had no visible float so I figured there could be some alteration or shearing to cause the depression.
- 11 I dug a hole and loaded it then blasted. Went out
- 12 dug it out to 1.5m where I noticed lots of decayed dunitite maybe serpentized? There still was a fair bit of ~~rock~~ so I
- 13 loaded the hole again and blasted. This I dug down
- 14 to 1.75m below where I met where solid rock was
- 15 encountered. I cleaned off 1.5m of the bottom of the
- 16 hole ~~out~~ to solid rock. Decided to sample this
- 17 DUN-20-003 - 1.5m chip of dark dunitite w/ minor sulfide



PRIORITIES

OCTOBER 30

☀ ☁ ☔ ❄ °C

- 8 Went from TR#3 as far as it looked possible to the
- 9 valley bottom edge before the overburden got too deep.
- 10 This was 90m @ 62° at around a 15° down slope. Dug a
- 11 hole and loaded it 1m down. Blasted it then dug to 1.5m
- 12 and loaded this hole and blasted it. The material was
- 13 green and talc like with some solid pieces of dunitite. I dug
- 14 down to 2m where the material was getting a little more
- 15 competent and darker. I packed a good charge of Amys into
- 16 this one and buried it good. Packed it down and left it to
- 17 freeze in overnight.

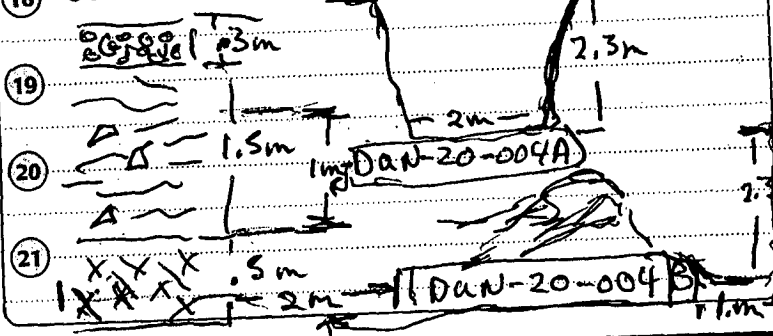


31 OCTOBER



PRIORITIES

- 8 Vern and I went up and lit  
 9 the fuse to last blast of this  
 10 hole. It went good, being frog  
 11 in and buried deep. We  
 12 dug the pit down to 2.3 m  
 13 where solid bedrock was chanced  
 14 off. The upper .3 m was  
 15 rounded gravel, then 1.5 m  
 16 of decayed w/ clay (gauge) <sup>chromite</sup>  
 17 or serpentinized dunite. The  
 18 bottom 0.5 m was a black to  
 19 gray green layer with olivine  
 20 phenocrysts in a black  
 21 ground mass w/ carbonate  
 lenses. (Looks chromite rich)  
 minor py also. Sampled 1 m  
 w/ DAN-20-04A of the clay altered  
 green layer and 2 m of the  
 black fractured layer of in place  
 bedrock w/ DAN-20-04B



NOVEMBER 1



PRIORITIES

- 8 We traversed up along  
 9 Bishop Cr. looking for some  
 10 possible pit sites. After  
 11 the area which we had  
 12 done all our work in  
 13 there was a saddle and  
 14 huge bluff of material  
 15 which was mud/clay from  
 16 the loof of the flow. Dubs  
 17 covered in vegetation coming  
 18 down into Bishop Cr. Both  
 19 sides of Bishop Cr. for a  
 20 distance of 700 m were covered  
 21 in deep till layers. The same  
 was noticed on the ridge between  
 our work area exposure of dunite  
 and the pin hill exposure of dunite.  
 Exposures of the rock could  
 be seen intermittently from  
 the pin hill top down to within  
 30 m of Bishop Cr. flats. We  
 found a spot around 40 m  
 off the hill top to the west,  
 down towards Bishop Cr. We  
 went back to get some dynamite  
 while I barred some holes in.  
 We loaded everything up and  
 packed the holes tight and left for  
 the night.

2 NOVEMBER



PRIORITIES

2000-058

NOVEMBER 3



- 8 Lit the blast off then  
9 came back and dug out.  
10 Freezing in the charges sure  
works good. We dug out  
11 the hole to solid blocky  
12 layer of dunite. This exposure  
is very hard and silicious.  
13 The dunite here is olivine  
rich with visibly less  
14 sulfide and chromite.  
15 I shipped 1m of sample  
16 from the bottom of the  
17 trench which was 1m deep  
DUN-20-005. The rock  
18 down the hill was the  
19 same hard Olivine rich  
20 silica variety with visibly  
21 less sulfide / chromite.
- This is interesting in the  
Carbonate that was found  
lower in the system which  
I think is in the clinopyroxene  
series (diopside, hedenbergite,  
augite of Ca rich pyroxenes).  
This ~~well~~ shows a layering  
in the Indian River dunite over  
the 800 meters that was seen.

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TEAR-OFF

TEAR-OFF