

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
MINISTRY OF ENERGY AND MINES
GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR: 2001/2002

REPORT #: PAP 01-23

NAME: GORDON RICHARDS

2001

D. TECHNICAL REPORT**BRITISH COLUMBIA****Ministry of Energy and Mines
Energy and Minerals Division**

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name Gordon RichardsReference Number P39**LOCATION/COMMODITIES**Project Area (as listed in Part A) BEATTON

MINFILE No. if applicable _____

Location of Project Area NTS 94A, B, G, H, J, OLat 56°00'N to 60°00'N Long 120°00'W to 124°00'WDescription of Location and Access Fort Nelson to Ft St John working from Alaska Highway and secondary logging + petroleum access roads

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

Dave Bennett B.Sc. UBC GeologyMain Commodities Searched For DiamondsKnown Mineral Occurrences in Project Area nil other than oil + gas, coal, sulfur, barite, bentonite and one Mn, U, Cu + Au**WORK PERFORMED**

1. Conventional Prospecting (area) 50,000 sq. km
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) _____
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program

I appreciated the reduced time requirement from previous years because of the high cost of analysis (\$230/sample). If I had spent more time and collected even more samples, I couldn't have afforded to analyze them.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

Name Gordon Richards Reference Number P39

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Northeast BC from Ft St John to Ft Nelson and beyond to north B.C.-NWT border. Sample sites are shown on the accompanying "NE BRITISH COLUMBIA OIL AND GAS FIELD MAP".

2. PROGRAM OBJECTIVE [Include original exploration target.]

To collect 20 kg samples of -8 mesh screened gravel from creeks throughout the project area at a density of 20 to 30 per 4-mile (1:250,000) map sheet for determining number and type of heavy (213.25 g.) indicator minerals of kimberlite intrusions. This program was designed as a first step to hopefully indicate areas for more intensive prospecting.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

All 35 samples were shipped with Canadian Freightways to Geoanalytical Laboratories at the Saskatchewan Research Council for processing. Results are provided in the attached report from the SRC and form the basis for evaluating the program. Total number of indicator minerals at each site will not be known until microprobe work is completed. Compositions of mineral grains should be determined to complete the evaluation of the data. The actual survey area was changed from the original area after discussion with Mr. Bob Lane in late May. Reason for this change was due to lack of road access in the original area and ease of access along the Alouka Highway and Liard Highway. The area was visited in late May and early July but water levels were too high from spring runoff and heavy rains in June so that some sampling was impossible. Sampling was therefore done in September. Summary of field notes for each sample site is provided below.

D. TECHNICAL REPORT (continued)
REPORT ON RESULTS (continued)



3. PROSPECTING RESULTS (continued)

- C1 de'Easum Creek 100m downstream from bridge. Collected among boulders.
10-15m wide x 20-40 cm deep + rippled.
- C2 Parker Creek N of Prophet R. on old Alaska Highway. Collected from bar
with no boulders or cobbles. Pebbles and finer w silt covering all.
Ck is 20m wide x 5cm-1m deep. 100m above bridge.
- C3 Adsette Creek. 300m below Alaska Highway near Prophet R. Collected on
downstream end of gravel bar. Bldrs present away from sample site.
30-40m wide valley. Creek 5m x 10-30cm. Outwash gravel.
Gravel quarry 500m west.
- C4 Beaver CK North of Trutch 200m above Alaska Highway. Collected on bouldery
cobbly + finer bar. Creek 7m to 10m wide x 2-3m deep slow moving.
Other side creek is slumped hillside of grey till. Till forms base
to gravel bar in creek.
- C5 Bougie CK Alaska Highway. 400m above highway. ^{Valley} Creek 40m wide. Creek 5-10cm x
5cm - 1m deep. Rippled water. Collected on flat gravel side bar.
Creek incised 100ft through tills + cc? Tills evident along highway.
No glacial benches or glaciofluvial benches.
- C6 Jackfish CK Alaska Highway. Collected 200m above highway on only gravel bar. Elsewhere
boulder reaches and ripples. Beaver active. No outwash. Till forms
basement in area. Some angular sedimentary float
- C7 CK behind Ft Nelson by airport cut 200'± into flatish terrain. 5m wide creek x 30cm
Bouldery bottom with gravel. Collected from more gravelly side bar.
Hillsides believed to be till + silt?
- C8 CK on Sierra Main logging road. Collected from good gravel bar of pebbles and angular
boulders. Sed nearby. 4m creek x 30cm. 150m above road.
Not in deep cut gulley (perhaps 50 ft) No outwash in area.
Generally flat and swampy. Rd and ditches are till + silt.
- C9 Raspberry CK 200m above Alaska Highway. Creek 10m x 10cm-1m good flow.
Sample from cobbly bar with angular sed & boulders. Banks are
old river gravels or outwash. Much till along highway. False clay
bottom 30cm deep where sampled.

3. PROSPECTING RESULTS (continued)

C10 Klva River: Collected 200 m above bridge from left bank in boulder-cobble-pebble-finer bar along straight run of river. Water 15-20 m x 10-100 cm. Valley 100 m wide. Gravel 30-50 m wide. Much angular sed's float but also granite boulders much till + some or along road. Valley over 100 ft deep. Some gravelly tills, mostly finer, along road. Some clay balls in sample discarded.

C11 Creek tributary to Snake River, Valley cut 70 ft and 100 m wide into countryside. Collected 150 m below bridge immediately below beaver dam. Creek bed exposed here is bouldery. At bridge water is 10 m x 1 m slow moving. General terrain is flat + swampy. Sample is sandy. Water sampled ck is 5 m x 5 cm rippled water running through boulders.

C12 Tsoo Ck southwest fork above bridge. Creek 5 m x 1/2 m. Creek + gravel 10 m wide in deep (300 ft) valley. Clay rich till along road. Sandy sample. Boulders in creek. Cobbles @ sample site.

C13 Laird mainline logging road just short of 1/2 in rd several km downstream from bridge over Fort Nelson River. Collected where creek comes out of cut onto silt-less flats. On gravel bar w some boulders, mostly cobbles and angular sandy float. Sandy sample. At level of old Ft Nelson R flood plain. Gravel could be from creek in late glacial times or Ft Nelson R or both.

C14 Stanalind Ck on Laird Highway. Collected 150 m above highway from one of several intermittent gravel bars thrown up in flood stage. Beaver activity along ck. Roadside clay-rich tills. Some boulders along ck. Beaver dam 10 m upstream from sample site. Ck 9 m x 1/2 m with pools to 1-2 m.

C15 Kleda Ck ^{under} 50 m below bridge on gravel bar w pebbles and rare cobbles. Creek here is 40-50 m wide slow + deep? 1-2 m @ deepest w deeper pools. Gravel bars few and silted up. Silty bank sluffing into ck 400 m above bridge.

C16 Upper Klva Ck Collected 100 m above bridge upstream of bend on cobble + boulder bar. Sandy sample. Water 10-5 m x 10 cm to 2 m in pools. Creek + gravel 15 m wide. Some sections of creek are boulder rich. Creek cut 100 to 200 ft into countryside. Clay rich till along rd. Bldrs are various granites, metax, + lms - sed's.

REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

- C17 Klwa CK main 2nd bridge. Collected in cobbles + few pebbles boulders @ water edge 50 m above bridge below boulder field. Some argillite bedrock and angular boulders. Big CK 10 m x 10-40 cm where running through boulders otherwise 10 m x 1-2 m where slow. Many granitic + metamorphic bldrs. Deeply incised 200 ft ± or more. Flat arg oc seen over 100 vert feet on bank downstream with 3-5 m silt or till on top.
- C18 Doig River below bridge on I.R. Cobble gravel few boulders. Sandy sample 200-300' incised valley w oc + silt or clay rich till ~~at~~ along river bank. Flat lying siltstone + arg overlain by till. Big river 15 m x 1 m? (murky) 30 m wide river bed including gravel bar. Much slumping along valley walls.
- C19 Beatten R. Big river deeply cut 50 m - 100 m total width. Much sed + granite + metamorphic rk. Collected 300 m downstream from end of rd by river.
- C20 Blair CK on Amoco Rd SW from Alaska Highway. N of Wmawam. Broad valley. Very few granite + metamorphic boulders, mostly SS, silts, + arg. Base of wash is good "typical" Indian BC bldn fill not clay rich till like further east. Thin cobble to bldn gravels sits on till. Creek 2 m x 20 cm but in flood 40 m x 2-3 m. Collected 150 m above bridge.
- C21 Cameron R bridge. Big wide valley. Creek + gravel 50 m wide. CK cuts 2 m bank of gravel. Sample 100 m above bridge. Cobble sample of SS slabs. Some bldrs. Some areas more bouldery. CK 4 m x 10 cm - 50 cm.
- C22 Beatten River 500 m above Alaska Highway. Creek is 15-20 m x up to 2 m deep. Collected on boulder-gravel bar. Much slumping of clay rich till along banks. Minor but persistent granite boulders. Most are sedimentary + rounded. Some minor flaggy sed. Sample is clay rich, clay balls in the gravel.
- C24 Aikman Creek. S flowing tributary to Halfway River. Brinked out flat lying shale arg overlain by 1 m bldn gravel possibly old bench level of Halfway River or from flatish tan coming out of Aikman CK. OC is 8 m high. Good gravel sample w much fines. CK 2 m x 20 cm with pools. Flood size 5 m x 2 m. All sed rubble + bldrs.

REPORT ON RESULTS (continued)

3. PROSPECTING RESULTS (continued)

- C40 Townsend CK Collected 100 m below bridge on excellent gravel bar. cobbles common. Creek bed 15 m x 3 m w much flooding on flood plain. Valley 1-2 km wide in rolling hills. Banks of creek are silt. Bldrs present on upstream bar. Much SS float < 1% granite < 1% qtz 2-5% phyllite minor mica schist.
- C41 Beattan River Collected sample 200 m above bridge under water on shallow gravel bar. Banks are 50 to 200 feet of silt + till. Big slumps of silt along river banks. Much SS flt 1% granite pieces up to cobbles. Also metamorphic rx. Big River 50 m x up to 1 m.
- C42 Grewatsh CK Collected 100 m above bridge. Big creek with lots of gravel 20 m x 2 m is creek cut - water much lower but rippled. Few boulders mostly cobbles with silt banks. Till along roads. Float 50% foreign including granite, quartz, phyllite, others. SS - silt very common 30-50%.
- C43 Beattan River River much smaller - can walk across gravel. Collected above bridge. Stream bed 25 m x 3-4 m + then flood plain. Much less granite etc. 10-15%. 85% SS etc flt. Few boulders. Silt banks. Clay base to river. Sandy sample from gravel bar.
- C44 Farrell CK Collected 100 m below bridge in middle of creek from under water in cobbly gravel. Creek bed 10-15 m x 10 cm. Rippling water. 1-2% foreign round pebbles, qtz, phyllite, one piece granite (e.g pink) mostly SS + limy sed ± arg. Lots of gravel.
- C45 Grand Birch Creek Collected 20 m above rd + 20 m below beaver dam. Difficult to collect sample - thin gravel collected in centre of creek sitting on clay base. Small ck. In flood 8 m w x 3 m. Much flood silt over banks. 3% foreign pebbles. Much angular to subangular blocky SS - silt. Some cobbles, few boulders.
- C46 Kobes Creek. Much gravel. Creek cut is 15 m x 3 m but water level low. Sample collected 200 m up creek @ water edge in cobbly sandy gravel by beaver pond. Hard gray till forms creek bank. 99.2% SS only minor gnst, phyllite, chlorite.
- C47 Colt Creek So' Sandy sample collected under bridge. Creek cut 10-20 m x 2 m with flood plain. Creek 50% rippled over gravel. Gravel banks. All float is sedimentary local origin.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS (continued)



3. PROSPECTING RESULTS (continued)

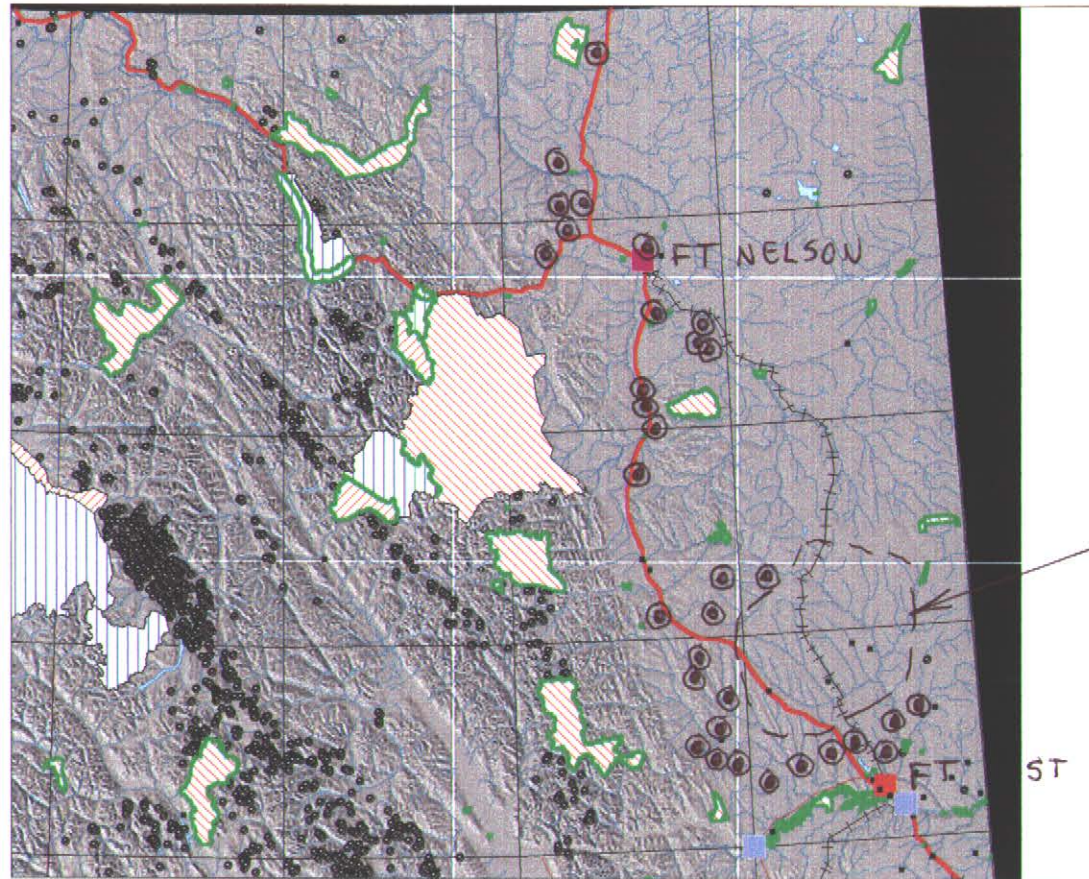
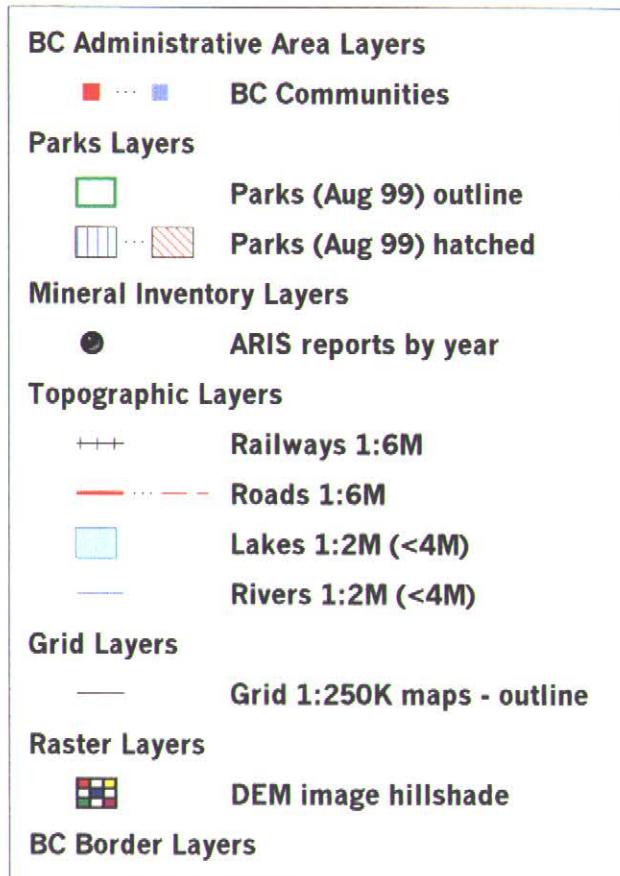
C48 Red Creek Several low beaver dams. Creek 7m x 2m deep with 52m wide flood plain. Rolling hills. Creek near 2m x 5cm slaw. Much gravel up + down ck w areas of cobbly clay rich pea gravel and others of washed sandy gravel. Clay + till banks. or^3 in area to within 10 cm of surface. 10-15% well rounded (Cordilleran?) pebbles mostly SS etc. of local derivation.

C49 First ck east of Stadtkart CK. Culverted creek. Good gravel bar 20m above culvert. Still water. Relief 20-30 feet in broad saucer valley. 40 pct granite, some qtz many other metamorphic pebbles. 5-10% SS pieces angular. Sandy sample.

C50 Cache CK Water very low, barely trickling over rx. Few abandoned low beaver dams. Very bouldery. Much granite + metamorphic bldgs. Few SS. Sample collected on point bar in middle of creek 300 m upstream from crossing. Banks are till and silt. Base to creek is well bedded claystone. Gravel is clay rich.

C51 St John CK (Montney CK) Good sandy gravel up to cobb size on very gravelly streambed. Most was very clay rich. Collected 50m above big culvert on paved road. Beaver dam 150m above culvert. Much SS fth. Persistent granite + metam' fth. Creekbed 10m wide w trickle of water. Silt banks 5m high. Till near sample site. Deeply cut valley.

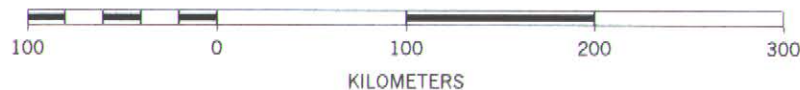
NEBC Beaton Diamond Project



D Bennett
survey
area

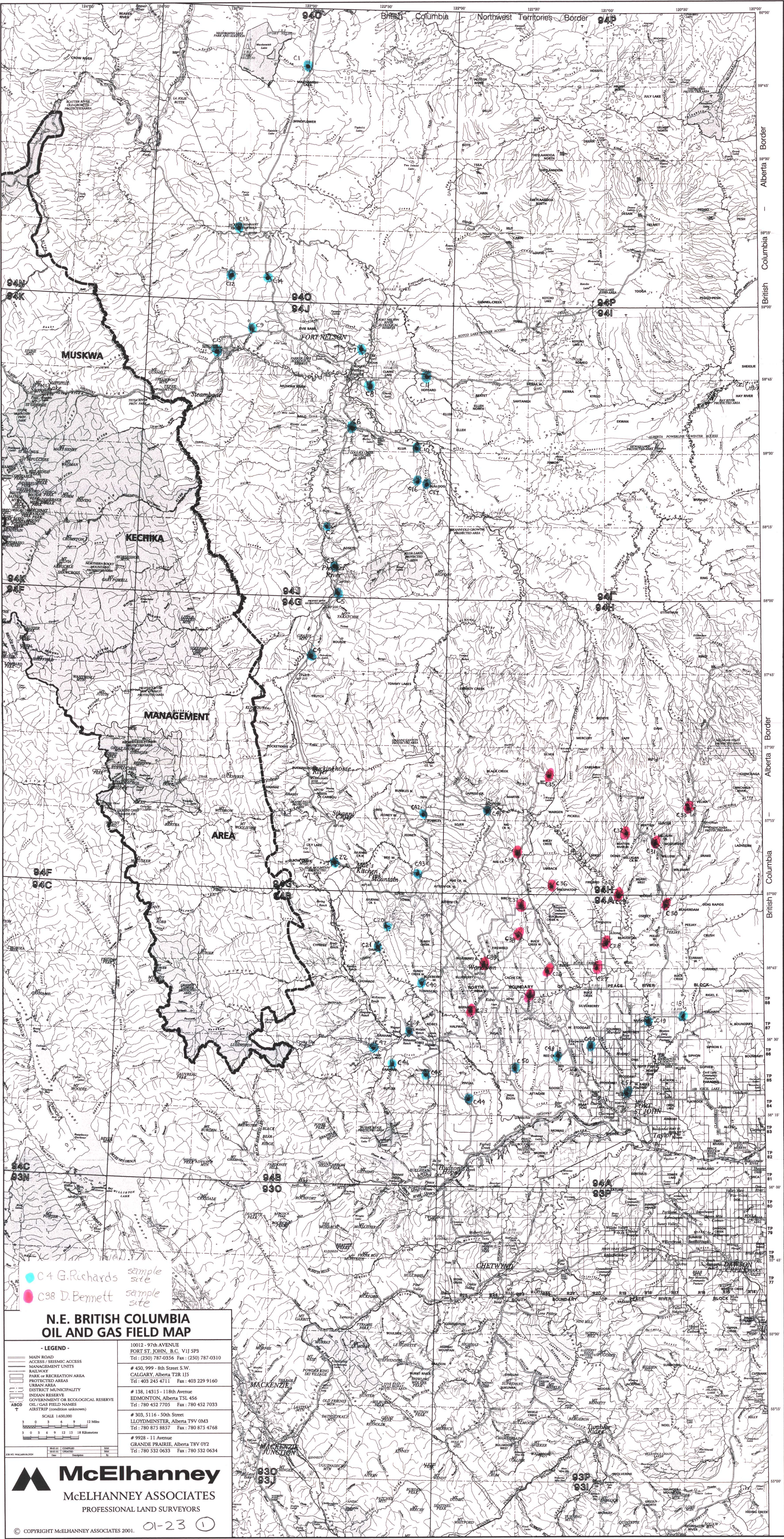
ST JOHN

SCALE 1 : 4,000,000



⊙ sample site
G. Richards
See map next page
for detail





N.E. BRITISH COLUMBIA OIL AND GAS FIELD MAP

- LEGEND -

- MAIN ROAD
- ACCESS / SEISMIC ACCESS
- MANAGEMENT UNITS
- RAILWAY
- PARK or RECREATION AREA
- PROTECTED AREAS
- URBAN AREA
- DISTRICT MUNICIPALITY
- INDIAN RESERVE
- GOVERNMENT or ECOLOGICAL RESERVE
- OIL / GAS FIELD NAMES
- AIRSTRIIP (condition unknown)

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Reviewed by:

Ally Maci - SRC



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M1049 GORDON RICHARDS NOVEMBER 2 2001 (25) [HM INDICATORS]

1 SAMPLE WEIGHT IN KG OT01.217

2 MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS

3 FRANTZ LOWERS @ 0.34 AMPS IN GRAMS

4 FRANTZ LOWERS @ 0.19 AMPS IN GRAMS

5 VISIBLE PYROPIC GARNET GRAIN COUNT

6 Cr-DIOPSIDE GRAIN COUNT

7 PICROILMENITE GRAIN COUNT

8 CHROMITE GRAIN COUNT

9 % PERMROLL MAG PROCESSED

	SWT	MWT	LW1	LW2	PG	CD	PICRO	CHROM	%
C 1	18.65	5247	17.76	51.95	0	0	0	0	100
C 2	18.20	7230	41.72	73.95	1	0	0	0	100
C 3	19.50	10093	19.32	54.05	1	0	0	0	100
C 4	18.15	6900	19.94	47.80	2	0	0	0	100
C 5	18.40	10094	11.34	21.87	1	0	0	0	100
C 6	17.00	9062	31.48	72.25	0	0	0	0	100
C 7	20.55	8984	33.64	61.75	0	0	0	0	100
C 8	18.65	12298	25.71	71.05	0	0	0	0	100
C 9	19.85	12326	68.57	178.43	0	0	0	0	100
C 10	20.80	7531	37.43	58.06	0	0	0	0	100
C 11	20.35	9152	18.40	58.73	0	1	0	0	100
C 12	20.35	11542	31.93	91.32	0	0	0	0	100
C 13	18.50	11925	25.06	83.37	2	1	0	0	100
C 14	18.00	8962	13.83	111.12	4	0	0	0	100
C 15	20.80	6126	17.27	18.69	1	0	0	0	100
C 16	19.40	11462	92.17	123.42	1	0	0	0	100
C 17	20.80	8826	60.05	101.37	0	0	0	0	100
C 18	21.45	10814	82.19	167.22	0	0	0	0	100
C 19	20.70	6770	96.14	82.77	0	0	0	0	100
C 20	19.80	8589	71.43	122.78	0	0	0	0	100
C 21	20.60	5985	168.16	16.82	0	0	0	0	100
C 22	19.35	4638	71.67	7.82	0	0	0	0	100
C 23	19.20	7440	50.36	26.25	0	0	0	0	100
C 24	19.15	6927	165.81	14.90	0	0	0	0	100
C 1 REPEAT					0	0	0	0	

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M1050 GORDON RICHARDS NOVEMBER 2 2001 (25) [HM INDICATORS]

1 SAMPLE WEIGHT IN KG OT01.217

2 MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS

3 FRANTZ LOWERS @ 0.34 AMPS IN GRAMS

4 FRANTZ LOWERS @ 0.19 AMPS IN GRAMS

5 VISIBLE PYROPIC GARNET GRAIN COUNT

6 Cr-DIOPSIDE GRAIN COUNT

7 PICROILMENITE GRAIN COUNT

8 CHROMITE GRAIN COUNT

9 % PERMROLL MAG PROCESSED

	SWT	MWT	LW1	LW2	PG	PG	PICRO	CHROM	%
C 25	21.80	10941	40.92	83.11	0	0	0	0	100
C 26	20.85	9800	68.20	83.62	1	0	0	0	100
C 27	19.25	11270	22.43	122.61	0	0	0	0	100
C 28	17.20	6399	51.77	42.59	0	0	0	0	100
C 29	22.60	11006	47.78	135.84	0	0	0	0	100
C 30	20.50	11865	80.74	91.62	0	0	0	0	100
C 31	18.15	5952	36.78	29.74	0	0	0	0	100
C 32	19.95	7600	83.18	54.36	0	0	0	0	100
C 33	21.00	7506	83.66	59.69	0	0	0	0	100
C 34	20.25	9721	18.25	74.26	0	0	0	0	100
C 35	20.00	9978	43.57	79.16	1	0	0	0	100
C 36	22.65	11585	21.17	42.04	0	0	0	0	100
C 37	20.85	12580	43.75	169.75	0	0	0	0	100
C 38	20.35	13435	47.24	92.64	1	0	0	0	100
C 39	20.95	9414	71.31	33.16	0	0	0	0	100
C 40	21.50	10479	100.36	46.08	0	0	0	0	100
C 41	20.15	11957	86.95	120.75	0	0	0	0	100
C 42	21.40	10397	73.12	106.21	0	0	0	0	100
C 43	20.70	10191	158.86	63.10	0	0	0	0	100
C 44	21.90	12584	92.67	48.27	0	0	0	0	100
C 45	21.20	7299	16.37	10.98	0	0	0	0	100
C 46	21.05	11569	31.55	9.18	0	0	0	0	100
C 47	22.25	11572	44.61	27.79	0	0	0	0	100
C 48	22.80	8843	24.06	48.36	0	0	0	0	100
C 29 REPEAT					0	0	0	0	

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M1051 GORDON RICHARDS NOVEMBER 2 2001 (4) [HM INDICATORS]

- 1 SAMPLE WEIGHT IN KG OT01.217
- 2 MID FRACTION -1.00+0.25MM DRY WEIGHT IN GRAMS
- 3 FRANTZ LOWERS @ 0.34 AMPS IN GRAMS
- 4 FRANTZ LOWERS @ 0.19 AMPS IN GRAMS
- 5 VISIBLE PYROPIC GARNET GRAIN COUNT
- 6 Cr-DIOPSIDE GRAIN COUNT
- 7 PICOILMENITE GRAIN COUNT
- 8 CHROMITE GRAIN COUNT
- 9 % PERMROLL MAG PROCESSED

	SWT	MWT	LW1	LW2	PG	CD	PICRO	CHROM	%
C 49	22.25	10342	100.35	94.23	0	0	0	0	100
C 50	22.80	5602	78.91	76.43	0	0	0	0	100
C 51	22.50	9460	59.11	78.48	0	0	0	0	100
C 51 REPEAT					0	0	0	0	

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results☒ Finalized Data *P. Nohi - Scott*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C1	0	0	0	0	0	0	100	0
	Comments:	BR							
2	C2	1	0	0	0	0	0	100	0
	Comments:	MMG							
3	C3	1	0	0	0	0	0	100	0
	Comments:	BFM							
4	C4	2	0	0	0	0	0	100	0
	Comments:	BR							
5	C5	1	0	0	0	0	0	100	0
	Comments:	MMG							
6	C6	0	0	0	0	0	0	100	0
	Comments:	BFM							
7	C7	0	0	0	0	0	0	100	0
	Comments:	BR							
8	C8	0	1	0	0	0	0	100	0
	Comments:	MMG							
9	C9	0	0	0	0	0	0	100	0
	Comments:	BFM							
10	C10	0	1	0	0	0	0	100	0
	Comments:	BR							
11	C11	0	0	1	0	0	0	100	0
	Comments:	PMS							
12	C12	0	0	0	0	0	0	100	0
	Comments:	BR							
	Comments:								

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐

Preliminary Results

☒

Finalized Data

P. N. M. J. S. K.

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C13	2	0	1	1	0	0	100	0
	Comments:								BFM
2	C14	4	2	0	2	1	1	100	0
	Comments:								MMG
3	C15	1	0	0	0	0	1	100	0
	Comments:								PMS
4	C16	1	0	0	0	1	0	100	0
	Comments:								PMS
5	C17	0	0	0	0	0	0	100	0
	Comments:								BR
6	C18	0	0	0	0	0	0	100	0
	Comments:								BFM
7	C19	0	0	0	0	0	0	100	0
	Comments:								BR
8	C20	0	0	0	0	0	0	100	0
	Comments:								BFM
9	C21	0	0	0	0	0	0	100	0
	Comments:								MMG
10	C22	0	0	0	0	0	0	100	0
	Comments:								BR
11	C23	0	0	0	0	0	0	100	0
	Comments:								BFM
12	C24	0	0	0	0	0	0	100	0
	Comments:								BR
	Repick: C1	0	0	0	0	0	0	100	0
	Comments:								MMG

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction



Preliminary Results



Finalized Data

Raw - J

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C25	0	0	0	0	0	0	100	0
	Comments:								MMG
2	C26	1	0	0	0	0	0	100	0
	Comments:								BFM
3	C27	0	0	0	0	0	0	100	0
	Comments:								PMS
4	C28	0	0	0	0	0	0	100	0
	Comments:								MMG
5	C29	0	0	0	1	0	0	100	0
	Comments:								MMG
6	C30	0	1	0	1	0	0	100	0
	Comments:								BR
7	C31	0	0	0	0	0	0	100	0
	Comments:								BFM
8	C32	0	0	0	0	0	0	100	0
	Comments:								PMS
9	C33	0	0	0	0	0	0	100	0
	Comments:								BFM
10	C34	0	0	0	0	0	0	100	0
	Comments:								MMG
11	C35	1	0	0	0	0	0	100	0
	Comments:								BR
12	C36	0	0	0	1	0	0	100	0
	Comments:								BFM
	Comments:								

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction



Preliminary Results



Finalized Data

D. Meli - J. Selt

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C37	0	1	0	0	0	0	100	0
	Comments: MMG								
2	C38	1	0	0	0	0	0	100	0
	Comments: BR								
3	C39	0	0	0	0	0	0	100	0
	Comments: BR								
4	C40	0	0	0	0	0	0	100	0
	Comments: PMS								
5	C41	0	0	0	0	0	0	100	0
	Comments: MMG								
6	C42	0	0	0	0	0	0	100	0
	Comments: MMG								
7	C43	0	0	0	0	0	0	100	0
	Comments: BR								
8	C44	0	0	0	0	0	0	100	0
	Comments: BFM								
9	C45	0	0	0	0	0	0	100	0
	Comments: BR								
10	C46	0	0	0	0	0	0	100	0
	Comments: BFM								
11	C47	0	0	0	0	0	0	100	0
	Comments: BR								
12	C48	0	0	0	0	0	0	100	0
	Comments: BFM								
	Repick: C29	0	0	0	0	0	0	100	0
	Comments: MMG								

Indicator Mineral Grain Description

Group: OT01:217

Lower 1 Fraction

☐ Preliminary Results☒ Finalized Data Amaki - Scott

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Pyrope Gt.		Cr. Diop.		Eclog.	Olivine	Picked	Others
		DEF	POS	DEF	POS	POS	POS	%	picked by
1	C49	0	0	0	0	0	0	100	0
	Comments: BR								
2	C50	0	0	0	0	0	0	100	0
	Comments: MMG								
3	C51	0	0	0	1	0	0	100	0
	Comments: BFM								
4									
	Comments:								
5									
	Comments:								
6									
	Comments:								
7									
	Comments:								
8									
	Comments:								
9									
	Comments:								
10									
	Comments:								
11									
	Comments:								
12									
	Comments:								
	Repick: C51	0	0	0	0	0	0	100	0
	Comments: BR								

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

P. Maki - J. L.

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C1	0	0	0	7	20	0
	Comments: BR						
2	C2	0	0	0	2	20	0
	Comments: MMG						
3	C3	0	0	0	4	20	0
	Comments: BFM						
4	C4	0	0	0	1	20	0
	Comments: BR						
5	C5	0	0	0	0	20	0
	Comments: MMG						
6	C6	0	0	0	0	20	0
	Comments: BFM						
7	C7	0	0	0	0	20	0
	Comments: BR						
8	C8	0	0	0	0	20	0
	Comments: MMG						
9	C9	0	0	0	0	20	0
	Comments: BFM						
10	C10	0	0	0	1	20	0
	Comments: BR						
11	C11	0	0	0	0	25	0
	Comments: PMS						
12	C12	0	0	0	0	20	0
	Comments: BR						
	Comments:						

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒Finalized Data *P. Miller - Scott*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picrolimenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C13	0	0	0	0	20	0
	Comments:						BFM
2	C14	0	0	0	0	20	0
	Comments:						MMG
3	C15	0	0	0	0	50	0
	Comments:						PMS
4	C16	0	0	0	9	20	0
	Comments:						PMS
5	C17	0	0	0	1	20	0
	Comments:						BR
6	C18	0	0	0	0	20	0
	Comments:						BFM
7	C19	0	0	0	0	20	0
	Comments:						BR
8	C20	0	0	0	0	20	0
	Comments:						BFM
9	C21	0	0	0	0	100	0
	Comments:						MMG
10	C22	0	0	0	0	20	0
	Comments:						BR
11	C23	0	0	0	0	40	0
	Comments:						BFM
12	C24	0	0	0	0	20	0
	Comments:						BR
	Repick: C1	0	0	0	1	20	0
	Comments:						MMG

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction



Preliminary Results

Finalized Data *P. Anders-Scott*

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picrolimnente		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C25	0	0	0	0	20	0
	Comments:						MMG
2	C26	0	0	0	0	20	0
	Comments:						BFM
3	C27	0	0	0	0	20	0
	Comments:						PMS
4	C28	0	0	0	0	20	0
	Comments:						MMG
5	C29	0	0	0	0	20	0
	Comments:						MMG
6	C30	0	0	0	0	20	0
	Comments:						br
7	C31	0	0	0	0	20	0
	Comments:						BFM
8	C32	0	0	0	0	20	0
	Comments:						PMS
9	C33	0	0	0	0	20	0
	Comments:						BFM
10	C34	0	0	0	0	20	0
	Comments:						MMG
11	C35	0	0	0	0	20	0
	Comments:						BR
12	C36	0	0	0	0	100	0
	Comments:						BFM
	Comments:						

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

f. h. u. - sed

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picroilmenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C37	0	0	0	0	20	0
	Comments:						MMG
2	C38	0	0	0	0	20	0
	Comments:						BR
3	C39	0	0	0	0	20	0
	Comments:						BR
4	C40	0	0	0	0	20	0
	Comments:						PMS
5	C41	0	0	0	0	20	0
	Comments:						MMG
6	C42	0	0	0	0	20	0
	Comments:						MMG
7	C43	0	0	0	0	20	0
	Comments:						BR
8	C44	0	0	0	0	20	0
	Comments:						BFM
9	C45	0	0	0	0	20	0
	Comments:						BR
10	C46	0	0	0	0	50	0
	Comments:						BFM
11	C47	0	0	0	0	20	0
	Comments:						BR
12	C48	0	0	0	0	20	0
	Comments:						BFM
	Repick: C29	0	1	0	0	20	0
	Comments:						BR

11/5/01

Indicator Mineral Grain Description

Group: OT01:217

Lower 2 Fraction

☐

Preliminary Results

☒

Finalized Data

D. Hahn - Scott

REP- Repicked Sample

B-Blank

DEF-Definite

POS-Possible

No.	Sample Name	Picrolimenite		Chromite		% Picked	Others picked by
		DEF	POS	DEF	POS		
1	C49	0	0	0	0	20	0
	Comments:						BR
2	C50	0	0	0	0	20	0
	Comments:						MMG
3	C51	0	0	0	1	20	0
	Comments:						BFM
4							
	Comments:						
5							
	Comments:						
6							
	Comments:						
7							
	Comments:						
8							
	Comments:						
9							
	Comments:						
10							
	Comments:						
11							
	Comments:						
12							
	Comments:						
	repick C51	0	0	0	0	20	0
	Comments:						BR



GROUP NUMBER	Given by lab.
SAMPLE	Sample number.
FRACTION	size of sample picked (ie. +180 -250mic, +250 -.5mm).
GRAIN TYPE	PYR (pyrope), CPX (chrome diopsides), ECL (eclogitic garnets), OLV (olivines), ILM (picro-ilmenites), CHR (chromites).
COLOR	For definite PYR: Burgundy or red; for possible PYR: Purple; for definite CPX: Apple Green; for possible CPX: Green; for ECL: Orange; for OLV: Beige; for ILM: Black; for CHR: Black.
FORM	EUH (good crystal shape), SBHED (some crystal shape), ANH (no crystal shape).
SHAPE	RND, SBRND, SBANG, ANG.
CLARITY	Transparent, Translucent, Included, Opaque.
LUSTRE	Glassy (shiny), Vitreous (semi-glass like), Metal (for oxides).
SURFACE FEATURE	None, ORPEEL, FROST, ROUGH, SMOOTH, KELYPHITE.
COMMENT	If grain is lost at any point of process or other comment.
OBSDATE	Day-month-year.
OBSERVER	Initial.



GRC		OT01:217						SURFACE			
SAMPLE	FRACTION	GRAIN TYPE *	COLOR	FORM	SHAPE	CLARITY	LUSTRE	FEATURE	COMMENT	OBSDATE	OBSERVER
C 1	+0.25mm/-1.0mm	chr	blk	eu	ang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	eu	sbang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	eu	sbang	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	BR
C 1	+0.25mm/-1.0mm	chr	black	sbhed	sbmd	opaque	metal	smooth	found in repick	5/11/01	MMG
C 2	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		30/10/01	MMG
C 2	+0.25mm/-1.0mm	chr	blk	anh	sbmd	opaque	metal	pitted		31/10/01	MMG
C 2	+0.25mm/-1.0mm	chr	blk	sbhed	sbang	opaque	metal	rough		31/10/01	MMG
C 3	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		31/10/01	BFM
C 3	+0.25mm/-1.0mm	chr	black	eu	sbang	opaque	metal	smooth		31/10/01	BFM
C 4	+0.25mm/-1.0mm	chr	blk	eu	sbmd	opaque	metal	pitted		31/10/01	BR
C 4	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbmd	translucent	vitreous	orpeel		31/10/01	BR
C 4	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbmd	translucent	vitreous	rough		31/10/01	BR
C 5	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 8	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 8	+0.25mm/-1.0mm	chr	blk	anh	ang	opaque	metal	smooth		31/10/01	MMG
C 8	+0.25mm/-1.0mm	chr	blk	anh	sbang	opaque	metal	smooth		31/10/01	MMG
C 10	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	rough		31/10/01	BR
C 10	+0.25mm/-1.0mm	chr	blk	eu	sbang	opaque	metal	pitted		31/10/01	BR
C 13	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	def cpx	applegreen	anh	sbmd	opaque	vitreous	smooth		1/11/01	BFM
C 13	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	smooth		1/11/01	BFM
C 14	+0.25mm/-1.0mm	cpx	apple green	anh	sbang	translucent	vitreous	rough		31/10/01	PMS
C 14	+0.25mm/-1.0mm	ecl	orange	anh	sbang	transparent	glassy	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	olv	beige	anh	sbmd	transparent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	cpx	green	anh	sbmd	translucent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	cpx	green	sbhed	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	pyr	purple	anh	sbang	translucent	vitreous	rough		31/10/01	MMG
C 14	+0.25mm/-1.0mm	pyr	violet	anh	sbang	translucent	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbang	translucent	glassy	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	burgundy	anh	sbang	translucent	vitreous	smooth		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	red	anh	sbang	included	vitreous	frosted		31/10/01	MMG
C 14	+0.25mm/-1.0mm	def pyr	red	anh	sbang	translucent	glassy	smooth		31/10/01	MMG
C 15	+0.25mm/-1.0mm	pyr	violet	anh	rnd	translucent	vitreous	smooth		31/10/01	PMS
C 15	+0.25mm/-1.0mm	olv	beige	anh	sbmd	translucent	vitreous	frosted		31/10/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS
C 16	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	pitted		1/11/01	PMS

* unless otherwise stated, all grains are considered possible

GRC		OT01:217						SURFACE			
SAMPLE	FRACTION	GRAIN TYPE *	COLOR	FORM	SHAPE	CLARITY	LUSTRE	FEATURE	COMMENT	OBSDATE	OBSERVER
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	chr	black	anh	sbmd	opaque	metal	pitted		1/11/01	PMS
C16	+0.25mm/-1.0mm	def pyr	violet	anh	sbmd	translucent	vitreous	smooth		1/11/01	PMS
C16	+0.25mm/-1.0mm	ecd	orange	anh	sbang	translucent	glassy	frosted		1/11/01	PMS
C26	+0.25mm/-1.0mm	def pyr	violet	sbhed	sbmd	transparent	vitreous	orange peel		2/11/01	BFM
C29	+0.25mm/-1.0mm	cpx	green	anh	sbang	transparent	glassy	smooth		2/11/01	MMG
C29	+0.25mm/-1.0mm	ilm	black	anh	sbang	opaque	metal	rough	found in repick	2/11/01	BR
C30	+0.25mm/-1.0mm	pyr	purple	anh	sbmd	transparent	vitreous	rough		2/11/01	BR
C30	+0.25mm/-1.0mm	cpx	green	anh	md	transparent	vitreous	orange peel		2/11/01	BR
C35	+0.25mm/-1.0mm	def pyr	violet	anh	md	transparent	vitreous	smooth		2/11/01	BR
C36	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	rough		2/11/01	BFM
C37	+0.25mm/-1.0mm	pyr	purple	anh	sbmd	translucent	glassy	smooth		2/11/01	MMG
C38	+0.25mm/-1.0mm	def pyr	violet	anh	sbang	translucent	glassy	smooth		2/11/01	BR
C51	+0.25mm/-1.0mm	cpx	green	anh	sbmd	opaque	vitreous	rough		5/11/01	BFM
C51	+0.25mm/-1.0mm	chr	black	sbhed	sbang	opaque	metal	smooth		5/11/01	BFM

* unless otherwise stated all grains are considered possible

D. TECHNICAL REPORT



Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name Gordon Richards Reference Number P39

LOCATION/COMMODITIES CLEARWATER

Project Area (as listed in Part A) Tsikwustum MINFILE No. if applicable _____

Location of Project Area NTS 82M/06 Lat 51°25'N Long 118°15'W

Description of Location and Access on N + S of Tsikwustum Lake E of N end Adams Lake. Access by logging roads

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

Dave Bennett BSc Geol UBC 1983

Main Commodities Searched For Au, W,

Known Mineral Occurrences in Project Area nil

WORK PERFORMED

1. Conventional Prospecting (area) 10 sq. km
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) 15 tills, 11 rocks
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program

Excellent Program. It works well even though rewards to Province are long range.

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following **TECHNICAL REPORT** or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

Name Gordon Richards Reference Number P39

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

Due east of North end of Adams Lake 10 km.

2. PROGRAM OBJECTIVE [Include original exploration target.]

To follow-up on ~~anomalous~~ three silt samples collected the previous year that were ~~anomalous~~ for many elements including Au, Bi, Zn, Ni, Co, Hg, Be, B, Mn, Pb

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

Roads till-sampled were walked, prospecting for mineralized float and outcrop. Tills were collected to see if ~~a problem~~ they could be ~~most~~ useful in follow-up prospecting. Results were negative so either they don't work or a more thorough sample density is required. Float prospecting found many mineralized boulders many of which were skarn as listed below:

D. TECHNICAL REPORT (continued)
REPORT ON RESULTS (continued)



3. PROSPECTING RESULTS (continued)

P101 banded dark grey green rock with vuggy oxidized Mn layers
Subangular w approx 1% diss py.

P002/103 both pieces of fff were similar
Siliceous, rusty, coarsely Xline garnet pyroxene skarn
Rounded float w 3% diss sd - traces chalcopyrite
mn stained fractures 2-3% scheelite under lamp.

P106 Grey green siliceous skarn(?) w 5% f.g. diss silvery submetallic
Angular 7 cm wide vein.

P107 Hard siliceous bio sch w 3% v.f.g. py

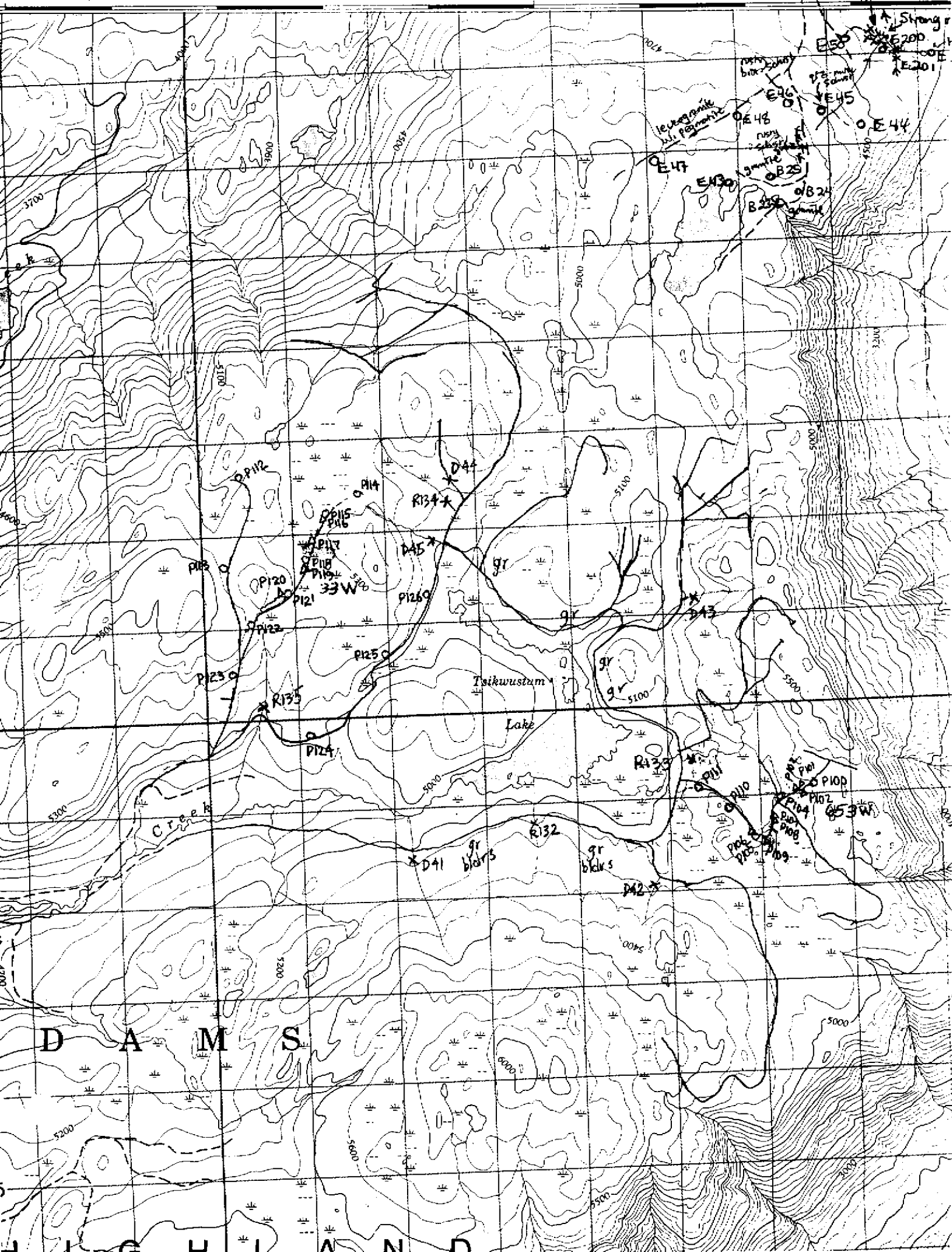
P108 Soft bio sch w silica and 1-2% f.g. py + tr cpy.

P116 Strongly oxidized siliceousankeritic breccia. moderate clay altⁿ + diss py low

P117 1/2m angular boulder garnet-epidote-dropsid skarn banded. No sd mag?

P119 Angular banded bld to 1m long-slab like. Very siliceous (skarn?) w
3-5% fmc + diss py.

P120 25m zone very rusty bio schist w incipient pegmatite. Bk oxide,
red + ochre stains abundant.





(ISO 102 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE



Richards, Gordon PROJECT (TSIKWVSTUM) 01 File # A104062 (a)

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Te ppm	Ga ppm
G-1	2.20	2.28	35.6	11	.5	<.2	.03	.12	1.5	<.02	4.2
P-100	23.38	9.13	75.6	6	.7	.9	.02	1.13	.6	<.02	5.6
P-104	9.34	6.48	61.4	<2	1.5	.9	.02	.93	.3	<.02	4.1
P-105	33.79	13.51	82.5	7	2.8	1.0	.02	.87	.3	<.02	6.7
P-110	17.50	5.65	56.4	3	1.3	1.2	<.02	.70	.6	<.02	6.2
P-111	15.48	6.04	50.9	10	1.8	.5	<.02	.36	.3	<.02	4.0
P-112	13.10	6.80	71.9	9	.8	<.2	.02	.21	.2	<.02	6.8
P-113	12.85	5.84	38.4	3	.6	.7	.03	.24	.2	<.02	5.4
P-114	10.11	8.05	46.0	11	2.1	.4	.04	.20	.2	<.02	7.6
P-115	18.77	9.13	60.5	2	1.5	.2	.03	.22	<.2	<.02	7.6
P-118	10.52	6.17	44.1	<2	.5	1.1	<.02	.26	<.2	<.02	5.3
RE P-118	9.94	6.10	43.2	<2	.6	.5	<.02	.26	.2	<.02	5.2
P-121	33.46	8.42	85.0	4	.7	<.2	<.02	.22	<.2	<.02	9.0
P-122	8.82	5.57	39.4	<2	.5	1.1	<.02	.21	<.2	<.02	5.0
P-123	12.36	6.19	38.1	16	.7	.5	<.02	.23	<.2	<.02	5.0
P-124	15.41	7.72	49.3	<2	.9	<.2	<.02	.33	.2	<.02	6.3
P-125	37.84	11.26	95.7	22	.7	.2	.02	.24	<.2	<.02	9.3
P-126	18.55	9.23	60.6	24	.8	.2	.02	.41	.3	<.02	6.3
STANDARD DS3	122.34	33.74	151.4	267	28.1	20.0	4.76	5.07	3.5	1.01	6.0

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: TILL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT TSIKWVSTUM-01 File # A104062 (b)
 6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Nb ppm	Rb ppm	Ta ppm	Y ppm	Be ppm	Sample gm
G-1	.35	33.3	<.05	4.25	.2	30
P-100	1.37	37.9	<.05	13.08	1.5	30
P-104	1.75	28.9	<.05	11.18	1.1	30
P-105	3.09	36.3	<.05	9.03	1.3	30
P-110	1.19	57.1	<.05	11.32	1.0	30
P-111	.76	29.4	<.05	10.93	.6	30
P-112	4.82	35.4	<.05	4.99	.7	30
P-113	.88	31.0	<.05	8.33	.6	30
P-114	6.65	17.7	<.05	6.08	.7	30
P-115	6.13	27.5	<.05	7.48	.9	30
P-118	3.44	33.3	<.05	6.94	.6	30
RE P-118	3.44	30.9	<.05	6.93	.5	30
P-121	3.20	59.3	<.05	5.36	1.0	30
P-122	2.02	30.4	<.05	7.18	.5	30
P-123	2.14	31.5	<.05	6.25	.4	30
P-124	3.26	31.1	<.05	7.19	.8	30
P-125	1.84	76.6	<.05	8.39	1.2	30
P-126	1.01	43.4	<.05	10.99	.6	30
STANDARD DS3	1.50	13.7	<.05	8.06	2.2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: TILL SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001

DATE REPORT MAILED: Nov 27/01

SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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(ISO 102 Accredited Co.)

GEOCHEMICAL ANALYSIS CERTIFICATE

AA
11Richards, Gordon PROJECT TSIKWVSTUM-01 File # A104061 (a)
6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Cu ppm	Pb ppm	Zn ppm	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Te ppm	Ga ppm
SI	3.84	.47	.7	6	<.1	.4	.02	<.02	<.2	<.02	<.1
P-101	27.35	5.01	17.8	48	1.0	<.2	.04	.10	1.0	.04	6.2
P-102	48.05	2.19	250.5	56	2.5	3.6	1.36	34.09	653.9	<.02	13.2
P-103	87.94	7.29	39.5	92	1.6	1.6	.03	.57	3.0	.06	17.3
P-106	48.91	6.69	75.2	86	1.0	.2	.04	.18	2.2	.07	10.0
P-107	57.20	7.94	65.5	83	.5	.6	.03	.43	.7	.08	6.6
P-108	65.39	6.81	99.9	82	.2	.3	.03	.35	.5	.08	11.4
P-109	4.08	2.09	63.5	12	1.4	.6	.19	7.53	1.1	.02	4.7
RE P-109	4.34	2.09	61.8	10	1.4	.3	.18	7.40	1.1	.03	4.5
P-116	7.70	5.25	31.8	10	.5	.3	.05	.05	.7	<.02	1.4
P-117	36.62	2.85	67.3	53	.6	<.2	.04	.93	1.3	<.02	4.3
P-119	137.46	12.61	74.6	226	1.9	.5	.02	.55	33.9	.12	27.7
P-120	25.88	8.46	65.6	38	.3	.2	.02	.07	.3	.03	4.3
STANDARD DS3	121.53	33.46	148.5	281	28.1	19.4	4.72	5.07	3.8	1.07	6.0

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: C. Leong TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

GEOCHEMICAL ANALYSIS CERTIFICATE

Richards, Gordon PROJECT TSIKWVSTUM-01 File # A104061 (b)

6170 Tisdall St., Vancouver BC V5Z 3M4 submitted by: Gordon Richards

SAMPLE#	Nb ppm	Rb ppm	Ta ppm	Y ppm	Be ppm	Sample gm
SI	<.02	.1	<.05	.03	<.1	30
P-101	.88	4.1	<.05	7.65	.5	30
P-102	5.41	6.1	<.05	11.19	89.0	30
P-103	.30	12.7	<.05	3.69	1.8	30
P-106	.27	13.0	<.05	4.53	.7	30
P-107	.26	65.8	<.05	5.47	.5	30
P-108	.38	121.2	<.05	2.59	1.0	30
P-109	.81	2.0	<.05	7.39	15.7	30
RE P-109	.80	2.0	<.05	7.03	15.3	30
P-116	.31	5.5	<.05	11.49	.6	30
P-117	.78	3.6	<.05	4.82	1.9	30
P-119	.90	7.2	<.05	12.73	.8	30
P-120	.36	31.8	<.05	3.36	.5	30
STANDARD DS3	1.53	13.2	<.05	8.17	2.2	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.

UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.

- SAMPLE TYPE: ROCK R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001

DATE REPORT MAILED: Nov 27/01

SIGNED BY: C. L. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

BRITISH COLUMBIA

- One technical report to be completed for each project area.
- **Refer to Program Regulations 15 to 17, page 6.**

Information on this form is confidential for one year and is subject to the provisions of the *Freedom of Information Act*.

- This summary section must be filled out by all grantees, one for each project area

LOCATION/COMMODITIES CLEARWATER
Project Area (as listed in Part A) Maillet MINFILE No. if applicable _____

Description of Location and Access SW of Silence Lake, W of Raft River, N + S of
Williet Cr. Access by rd along Williet Cr and Spahats Forest Service Rd.

Dave Bennett

Known Mineral Occurrences in Project Area S/ 082M/30 - sed exhalative Zn-Pb-Ag
AR 07422, 09543 Camino 1979, 1981

1. Conventional Prospecting (area) 15 km²
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) 2 silts 1 rk.
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following TECHNICAL REPORT or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the Freedom of Information Act.

Name Gordon Richards Reference Number P34

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

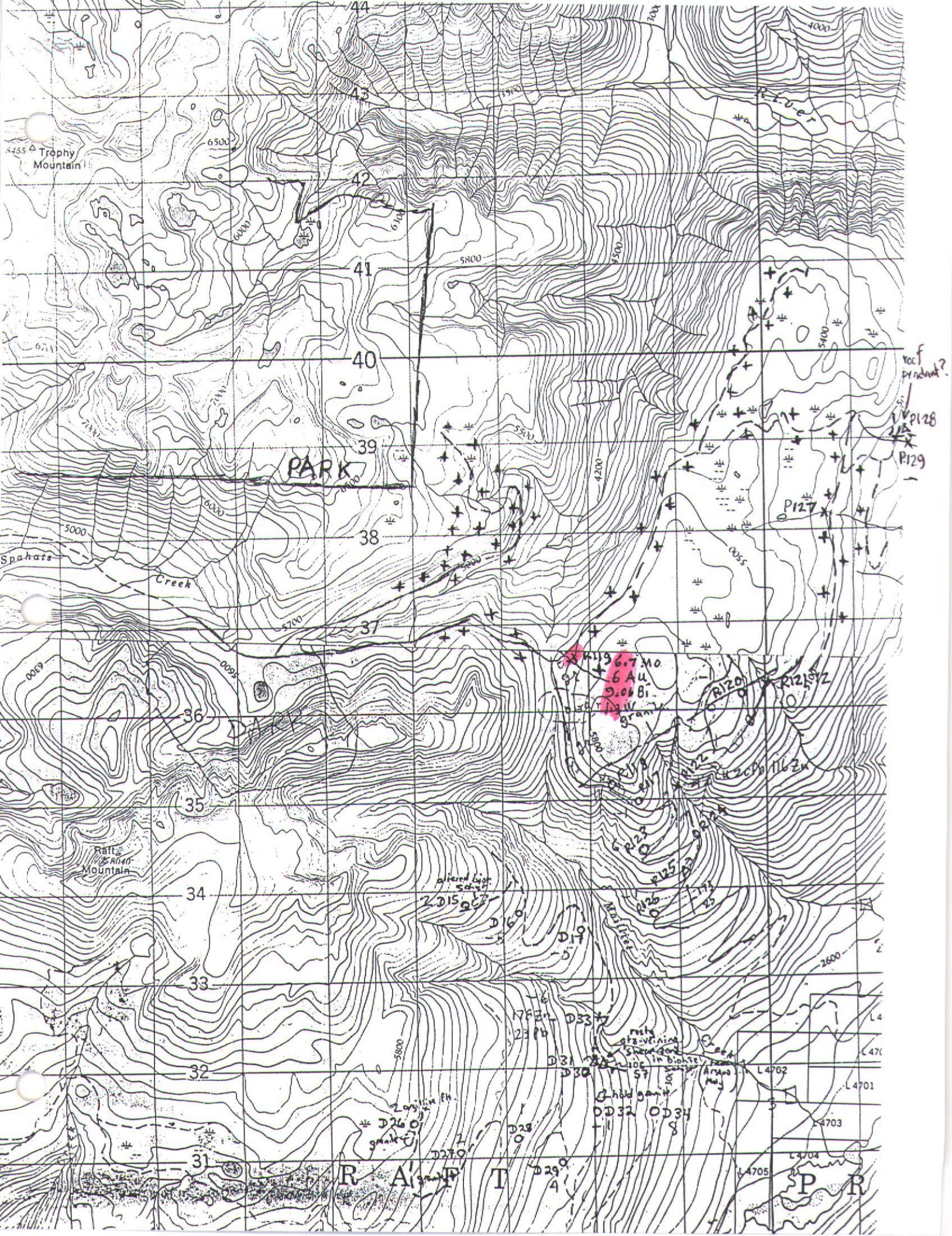
Au target lies north of 2000 silt R119 6.7 M, 6 Au 9.06 Bi 1.3 W accessed by
Spahats F.S.R.
Pb Zn Ag target lies N + S of Meilliet CR accessed by logging roads -

2. PROGRAM OBJECTIVE [Include original exploration target.]

Intrusion related gold was targeted on country rocks adjacent to granitoids
near anomalous R119 sample
Sedex target was to be evaluated by running tills collected last year
and then followed-up. Silt from 2000 were anomalous for Cu Pb Zn.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

All roads were driven or walked as indicated on map finding only
granitic rocks except near P128, P129 where a rock pendant w some sp
was found in outcrop. Intrusion related gold target was "written off" as
because only "granite" could be found N of R119. P128, P129 were not
anomalous. Sedex target P128 was a garnet pyroxene skarn in dark green
schist/gneiss at close contact with granite. No anomalous metal values.
Last year's tills were run for base metals with no positive results
See below. No further work warranted based on these results - Area



LL

Richards, Gordon PROJECT (READY MIX-SW) File # A104067
 6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

AA

SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
millett G-1	11	.4	<.2	.02	.13		
P-127	19	.7	.6	.05	.10	1.4	30
P-129	49	1.2	.8	.06	.14	<.2	15
P-132	29	.7	1.1	.04	.25	.3	30
P-139	41	.7	.8	.06	.40	.2	30
						.8	15
RE P-139	44	.9	1.0	.06	.42		
STANDARD DS3	287	32.8	23.7	5.07	5.74	4.1	15
							30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
 UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 - SAMPLE TYPE: (SIL) SS80 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE (604) 253-3158 FAX (604) 53-1716
 (IS) J02 Accredited Co.)

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GEOCHEMICAL ANALYSIS CERTIFICATE

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Richards, Gordon PROJECT (READY MIX-SW) File # A104065
 6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

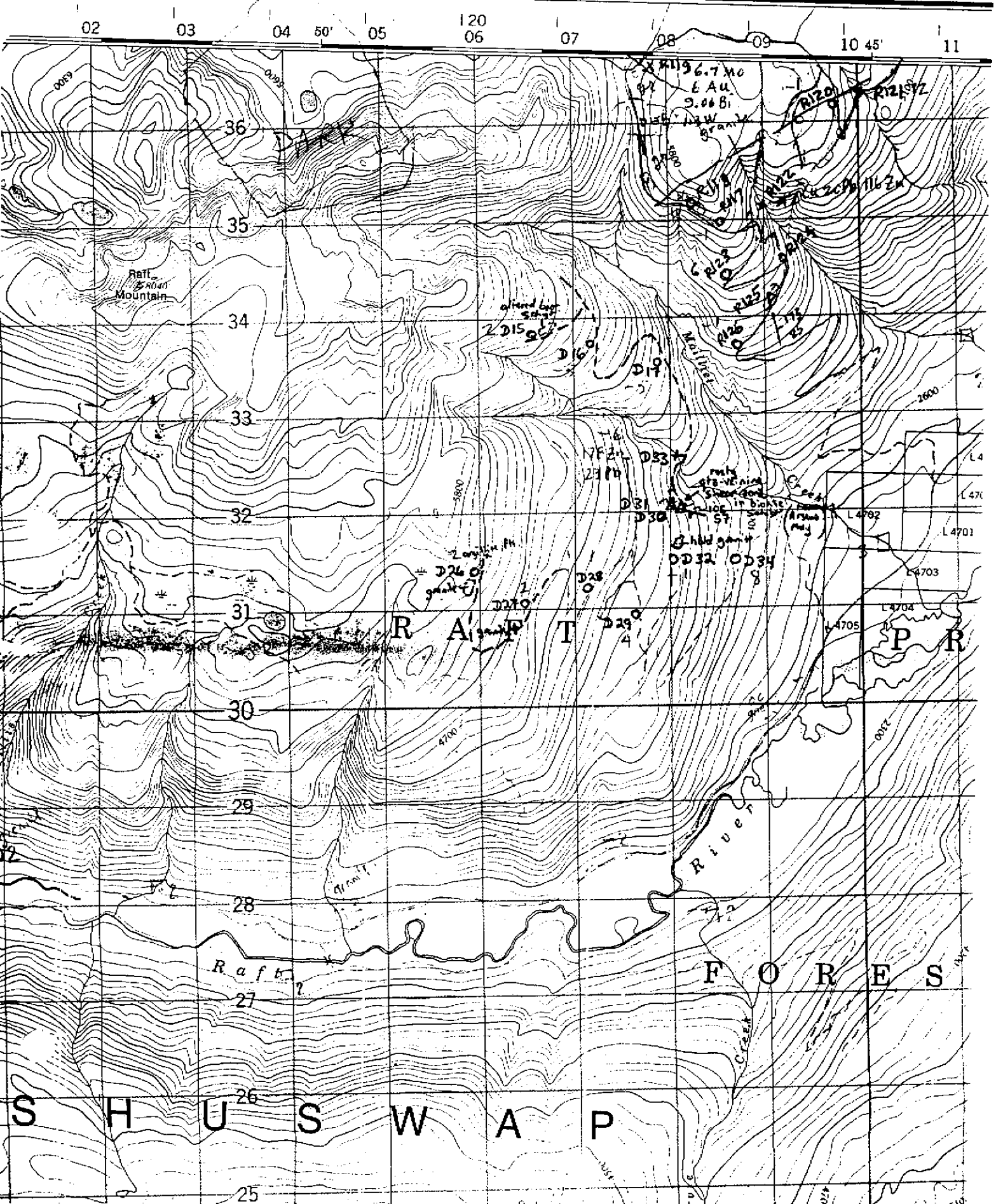
SAMPLE#	Ag ppb	As ppm	Au ppb	Sb ppm	Bi ppm	W ppm	Sample gm
millett SI	4	.1	<.2	.02	<.02	<.2	30
P-128	59	.7	.5	.05	.22	.4	30
P-140	200	.6	3.7	.03	14.71	382.9	30
P-208	746	.5	7.6	.02	3.26	18.7	30
P-209	173	.6	1.4	.04	1.73	12.1	30
P-210	710	.6	4.5	.03	39.17	5.2	30
P-211	27	.5	<.2	.06	.81	2.4	30
P-217	172	.7	2.4	.03	9.94	338.5	30
RE P-217	173	.6	2.6	.03	10.09	338.2	30
STANDARD DS3	285	31.2	21.2	5.06	5.52	4.1	30

GROUP 1F30 - 30.00 GM SAMPLE LEACHED WITH 180 ML 2-2-2 HCL-HNO₃-H₂O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 600 ML, ANALYSED BY ICP/ES & MS.
 UPPER LIMITS - AG, AU, HG, W, SE, TE, TL, GA, SN = 100 PPM; MO, CO, CD, SB, BI, TH, U, B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
 - SAMPLE TYPE: (ROCK) R150 60C Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 16 2001 DATE REPORT MAILED: Nov 27/01 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

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GEOCHEMICAL ANALYSIS CERTIFICATE

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Richards, Gordon PROJECT MOILLET File # A102143

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm
R 117	1.1	5	27	38	<.2	5	4	390	2.11	6	3	<4	36	254	<.2	1	<1	40	.53	.064	67	20	.38	1145	.244	7.23	2.733	3.29	<2	31.0	118	2.4	12.0	29.0	<.5	3	6	29	<.02	158	1
R 118	3.9	23	29	103	<.2	15	8	518	4.28	7	3	<4	20	205	<.2	<1	<1	90	.43	.074	41	57	.72	863	.450	7.91	1.874	2.76	<2	28.5	81	3.2	9.9	27.1	<.5	3	10	52	.02	144	1
R 123	2.1	48	48	156	<.2	39	21	1003	5.90	18	5	<4	21	188	<.2	2	<1	122	.58	.068	47	85	1.15	995	.496	9.59	1.329	3.17	<2	21.7	94	4.0	10.5	19.3	<.5	4	15	50	<.02	155	<1
R 124	1.4	23	28	80	<.2	25	12	679	3.94	5	5	<4	24	316	<.2	1	<1	89	1.10	.104	65	58	.89	1107	.428	8.45	1.987	2.97	2	23.6	118	3.5	14.3	21.9	<.5	3	11	39	<.02	133	<1
R 126	1.3	36	28	105	<.2	42	18	644	4.51	5	2	<4	18	189	<.2	1	<1	96	.50	.051	44	76	.97	1045	.473	7.26	1.407	2.85	2	27.4	88	5.0	7.6	18.9	<.5	3	10	44	<.02	135	<1
R 120	3.3	7	17	89	.2	9	5	629	3.58	5	3	<4	26	258	<.2	1	1	62	1.38	.099	49	32	.80	843	.338	6.45	1.836	2.03	4	46.6	86	2.9	11.1	26.5	<.5	2	6	56	.02	73	1
D 32	.8	17	25	87	<.2	17	14	766	5.57	4	3	<4	21	620	<.2	2	1	186	4.28	.340	104	41	2.02	1139	.720	8.30	2.215	1.87	<2	21.3	184	1.8	30.7	20.2	<.5	2	20	22	<.02	81	1
D 34	1.3	39	50	136	<.2	32	14	781	4.44	11	3	<4	19	176	<.2	1	<1	101	.74	.061	51	72	1.13	951	.455	8.67	1.343	3.17	<2	22.3	95	2.5	10.5	14.0	<.5	3	13	36	<.02	185	<1
RE D 34	1.4	38	48	130	<.2	30	14	764	4.34	9	2	<4	18	174	<.2	<1	<1	99	.76	.058	49	68	1.08	935	.443	8.38	1.309	3.09	<2	21.0	91	3.1	9.6	13.8	<.5	3	12	34	<.02	164	<1
STANDARD CT3	25.8	61	37	176	6.0	35	12	937	4.02	60	19	<4	22	224	24.0	22	21	131	1.48	.095	21	258	.86	1045	.373	6.47	1.920	2.01	29	43.0	40	20.0	12.3	16.5	<.5	5	10	33	<.02	71	<1
STANDARD G-2	2.0	1	21	50	<.2	7	4	756	2.61	2	3	<4	6	761	<.2	<1	<1	56	3.11	.090	25	71	.68	1050	.255	8.18	2.843	2.92	<2	7.9	48	.9	14.0	18.0	<.5	3	7	34	<.02	138	<1

GROUP 1EX - 0.25 GM SAMPLE DIGESTED WITH HClO₄-HNO₃-HCL-HF TO 10 ML. UPPER LIMITS - AG, AU, W = 200 PPM; MO, CO, CD, SB, BI, TH & U = 4,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM. DIGESTION IS PARTIAL FOR SOME MINERALS & MAY VOLATIZE SOME ELEMENTS, ANALYSIS BY ICP-ES.
- SAMPLE TYPE: TILL PULP Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUL 11 2001 DATE REPORT MAILED: July 20/01 SIGNED BY: C. Leong D. TOYE, C. LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

D. TECHNICAL REPORT



Ministry of Energy and Mines
Energy and Minerals Division

- One technical report to be completed for each project area.
- Refer to Program Regulations 15 to 17, page 6.

SUMMARY OF RESULTS

- This summary section must be filled out by all grantees, one for each project area

Information on this form is confidential for one year and is subject to the provisions of the Freedom of Information Act.

Name Gordon Richards Reference Number P39

LOCATION/COMMODITIES

Project Area (as listed in Part A) CLEARWATER Blue R. MINFILE No. if applicable _____

Location of Project Area NTS 51°53'N 83D03/06 Lat 52°03'N Long 118°25'W

Description of Location and Access Blue River north 30 km west of N Thompson River. Access from Highway by numerous logging roads

Prospecting Assistants(s) - give name(s) and qualifications of assistant(s) (see Program Regulation 13, page 6)

nil

Main Commodities Searched For Au, W, Ta-Nb

Known Mineral Occurrences in Project Area Ta-Nb carbonatites east of River.

WORK PERFORMED

1. Conventional Prospecting (area) _____
2. Geological Mapping (hectares/scale) _____
3. Geochemical (type and no. of samples) 56 fill samples collected 2000 run for ICP-MS 4 elements
4. Geophysical (type and line km) _____
5. Physical Work (type and amount) _____
6. Drilling (no. holes, size, depth in m, total m) _____
7. Other (specify) _____

FEEDBACK: comments and suggestions for Prospector Assistance Program _____

D. TECHNICAL REPORT (continued)

REPORT ON RESULTS

- Those submitting a copy of an Assessment Report or a report of similar quality that covers all the key elements listed below are not required to fill out this section.
- Refer to Program Regulation 17D on page 6 for details before filling this section out (use extra pages if necessary)
- Supporting data must be submitted with the following **TECHNICAL REPORT** or any report accepted in lieu of.

Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act*.

Name Gordon Richards Reference Number P39

1. LOCATION OF PROJECT AREA [Outline clearly on accompanying maps of appropriate scale.]

30 km Blue R north 30 km west of N Thompson R.

2. PROGRAM OBJECTIVE [Include original exploration target.]

To run last yr till samples collected last year for 41 element
ANIS-ICP in search of Au, W, Ta-Nb & massive sp, mineralization.

3. PROSPECTING RESULTS [Describe areas prospected and significant outcrops/float encountered. Mineralization must be described in terms of specific minerals and how they occur. These details must be shown on accompanying map(s) of appropriate scale; prospecting traverses should be clearly marked.]

No prospecting undertaken as extensive staking by Commerce
Resources covered the weak W lead found in results.

Blue River North

BC Administrative Area Layers

- BC Communities
 - City
 - Town
 - Village
 - Resort Municipality
 - Settlement
 - Community
 - District Municipality

Mineral Titles Layers

- Mineral titles outline (<1M)
- All Others

Topographic Layers

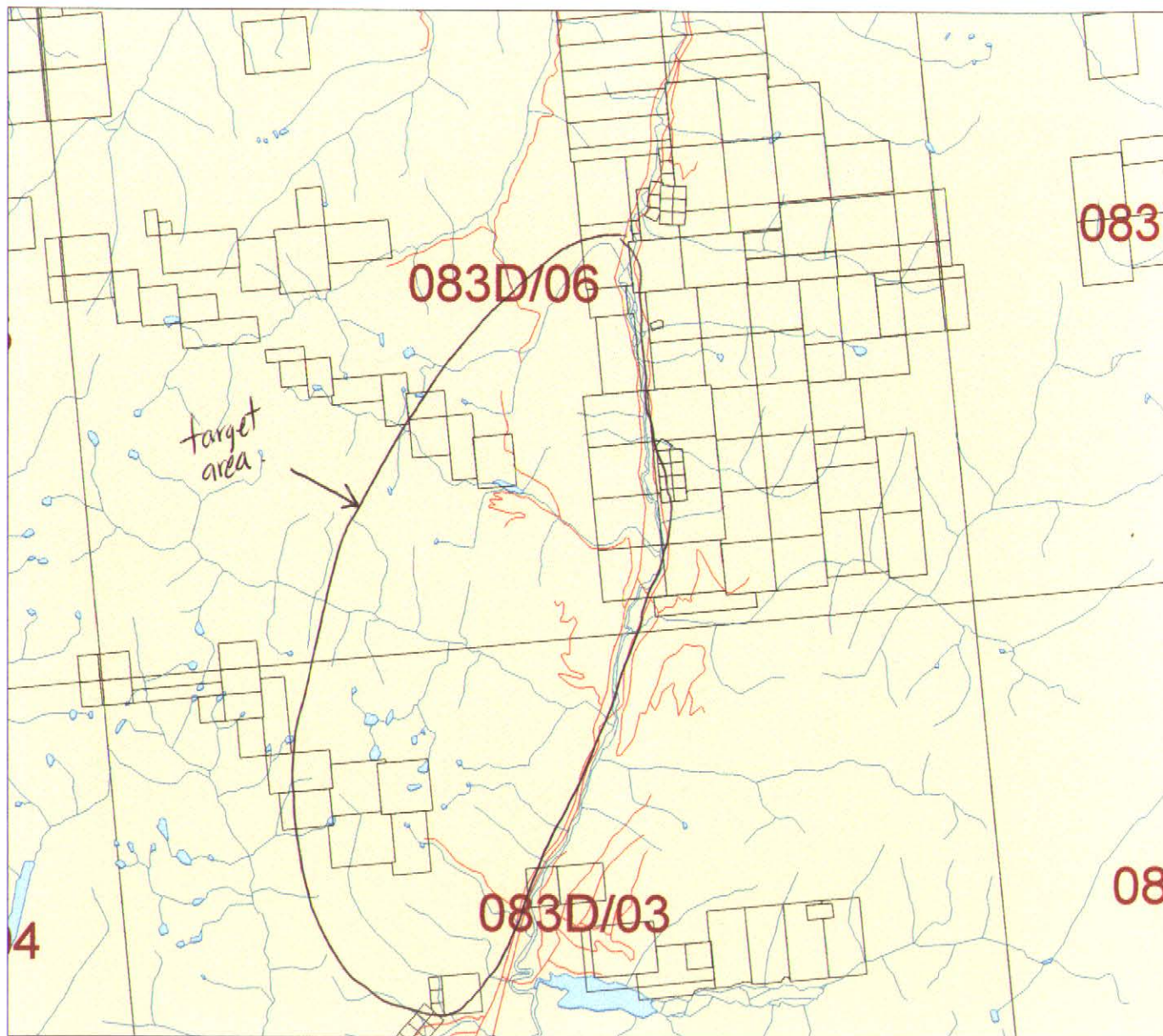
- Roads 1:250K (<2M)
- Lakes 1:250K (<2M)
- Rivers 1:250K (<2M)
- Border line 1:250K (<2M)

Grid Layers

- Grid 1:50K maps - labels
- Grid 1:50K maps - outline
- Grid 1:250K maps - outline

BC Border Layers

- BC Border 1:250K (<1M)



SCALE 1 : 250,000



KILOMETERS

N









AA
11

GEOCHEMICAL ANALYSIS CERTIFICATE

AA
11

Richards, Gordon PROJECT BLUE File # A102144 Page 1

6170 Tisdall St., Vancouver BC V5Z 3N4 Submitted by: Gordon Richards

SAMPLE#	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	P	La	Cr	Mg	Ba	Ti	Al	Na	K	W	Zr	Ce	Sn	Y	Nb	Ta	Be	Sc	Li	S	Rb	Hf	
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm
D 15	1.2	50	88	196	<2	35	18	1019	5.24	5	2	<4	21	133	.5	<1	1	106	.63	.037	62	103	1.31	1017	.482	9.90	1.152	2.82	2	10.1	118	2.8	10.5	12.1	<.5	3	16	38<.02	165	<1		
D 26	2.1	40	23	123	<2	67	24	806	6.29	10	3	<4	17	315	.2	1	1	172	2.31	.142	77	174	1.69	1423	.866	9.99	1.822	2.07	<2	23.8	135	2.9	20.1	26.8	<.5	3	20	35<.02	117	1		
D 27	1.2	16	25	83	<2	27	12	689	4.01	6	3	<4	21	468	.2	<1	1	102	2.38	.155	86	64	1.22	1293	.510	8.73	2.201	2.48	<2	18.8	154	3.5	17.3	18.0	<.5	2	13	25<.02	116	1		
D 28	1.2	7	21	53	<2	13	8	513	3.33	3	2	<4	16	542	<.2	1	<1	88	2.82	.203	74	42	.94	1125	.431	7.96	2.368	2.06	<2	15.9	135	2.0	18.3	16.0	<.5	2	11	14<.02	74	1		
D 29	2.2	26	19	122	<2	40	20	757	5.46	8	2	<4	15	605	.2	1	1	153	3.71	.257	92	77	1.81	1462	.653	9.22	2.188	1.80	<2	19.8	167	3.1	25.8	21.3	<.5	2	17	26<.02	85	1		
D 201	1.9	11	20	148	.3	38	18	3498	4.29	7	3	<4	12	293	.9	<1	1	74	2.59	.114	51	66	1.01	567	.660	8.34	1.959	1.45	<2	19.1	85	3.6	20.4	17.2	<.5	4	12	44 .03	58	1		
D 203	2.2	14	18	118	<2	24	11	1826	3.11	2	32	<4	13	273	.4	<1	<1	59	1.89	.090	68	69	.88	660	.295	6.93	1.660	1.72	<2	18.7	87	8.8	22.8	22.5	.5	5	10	39 .04	88	<1		
D 208	2.4	13	20	137	.2	35	24	5474	4.92	5	1	<4	11	267	.8	<1	<1	76	1.84	.069	44	67	.86	751	.403	7.51	1.665	1.73	<2	19.9	81	4.2	13.8	11.8	<.5	3	11	32<.02	67	<1		
D 209	1.8	20	24	136	<2	24	18	2463	5.02	4	2	<4	16	289	.7	<1	1	85	1.96	.066	51	64	.89	838	.330	8.27	1.769	1.89	<2	10.3	96	7.3	14.6	9.7	<.5	2	14	29<.02	76	<1		
D 211	11.8	11	15	109	.2	19	65	8490	4.93	4	5	<4	11	261	.9	<1	<1	66	1.70	.099	37	34	.57	597	.238	7.15	1.525	1.27	<2	22.9	78	2.1	12.5	8.4	<.5	3	8	36 .05	54	<1		
D 214	5.1	4	13	84	<2	22	16	2026	4.50	3	6	<4	21	428	.2	1	<1	128	3.68	.161	77	65	1.33	719	.425	9.21	2.179	1.56	<2	24.3	135	4.8	23.1	27.0	<.5	3	20	60<.02	69	<1		
D 220	1.7	9	28	142	.2	23	16	2665	3.65	3	29	<4	15	169	1.0	<1	<1	57	1.32	.068	43	59	.62	463	.277	7.31	1.959	2.07	<2	10.2	86	2.4	22.2	8.4	<.5	4	10	78 .03	90	<1		
D 221	1.6	15	29	166	.2	29	10	980	3.16	7	32	<4	12	201	.4	<1	<1	62	1.52	.077	40	67	.73	569	.294	7.58	1.802	2.34	<2	9.7	76	3.8	18.2	11.0	<.5	5	10	79 .02	122	<1		
D 222	1.9	12	28	133	.2	18	11	1747	3.57	3	5	<4	14	312	.5	<1	<1	68	1.49	.058	46	42	.62	980	.256	8.27	2.264	2.56	<2	11.2	84	1.6	13.2	9.0	<.5	4	9	49<.02	114	<1		
D 223	1.3	35	27	154	.2	33	10	967	3.53	5	18	<4	28	315	.6	<1	1	69	1.96	.081	88	63	.79	986	.420	7.56	1.714	2.33	<2	12.8	142	2.5	31.8	11.7	<.5	3	11	38 .02	109	<1		
D 224	1.3	18	25	72	<2	29	12	1017	4.07	4	3	<4	16	217	.2	<1	1	89	1.38	.082	51	93	.96	767	.640	8.47	1.564	2.51	<2	9.9	97	2.1	14.3	19.2	2.0	3	13	34<.02	109	<1		
D 225	1.8	19	26	98	<2	36	12	1335	4.33	3	18	<4	31	388	.4	<1	1	74	2.09	.108	100	80	1.02	924	.425	8.95	1.819	2.70	<2	7.4	177	4.5	31.9	32.4	4.8	4	15	76 .11	156	<1		
D 226	1.0	10	21	75	<2	23	9	1001	2.94	4	14	<4	13	296	.3	<1	<1	62	1.82	.072	43	63	.80	739	.331	7.21	2.035	2.13	<2	6.9	78	1.1	18.5	11.5	<.5	3	10	54<.02	106	<1		
D 227	1.3	14	22	98	<2	36	13	1435	4.36	<2	9	<4	20	283	.3	<1	<1	94	2.62	.093	64	113	1.28	762	.510	8.23	1.765	2.08	<2	6.3	118	2.3	29.8	14.3	<.5	4	17	64<.02	102	<1		
D 228	1.5	19	24	99	<2	32	12	989	3.97	5	11	<4	22	266	.3	<1	<1	85	2.36	.084	69	91	1.05	725	.437	8.36	1.682	2.36	<2	5.2	130	2.2	24.8	11.7	<.5	3	14	74 .03	111	<1		
RE D 228	1.6	19	25	95	<2	31	12	1031	3.93	4	11	<4	20	266	.2	<1	<1	86	2.38	.082	67	89	1.03	708	.454	8.23	1.639	2.30	<2	5.4	126	3.5	25.4	12.7	<.5	3	14	72 .02	105	<1		
R 175	1.1	7	19	101	<2	17	9	1349	3.20	3	5	<4	21	305	.3	<1	<1	70	1.89	.062	67	66	.84	870	.427	7.16	1.814	2.13	<2	9.7	126	2.6	23.2	14.2	<.5	3	12	51<.02	92	1		
R 176	1.0	9	22	81	<2	17	8	996	2.75	3	5	<4	20	276	.3	<1	<1	58	1.72	.086	65	50	.93	839	.342	6.78	1.849	2.17	<2	7.3	121	2.8	20.0	10.5	<.5	4	10	49<.02	92	<1		
R 178	.6	27	14	107	.2	44	25	1300	5.65	<2	4	<4	10	111	.2	<1	<1	172	4.53	.048	35	193	2.86	273	.458	7.90	1.914	1.20	<2	10.7	68	1.2	26.1	5.7	<.5	3	30	40<.02	70	<1		
R 179	.5	23	15	95	<2	36	23	1294	5.37	3	3	<4	23	116	.3	1	<1	165	4.20	.058	74	109	2.42	303	.487	7.39	1.813	1.28	<2	4.4	140	2.0	28.9	5.9	<.5	3	27	36<.02	81	<1		
R 180	1.2	13	15	85	<2	25	17	1571	5.24	3	6	<4	20	117	.3	1	2	135	3.02	.066	67	73	1.62	303	.932	7.01	1.742	1.34	<2	6.7	129	2.8	30.6	10.6	<.5	3	20	30 .04	67	<1		
R 181	.8	19	13	82	<2	26	19	1318	5.54	4	3	<4	24	133	.3	1	1	158	2.99	.067	75	70	1.62	345	1.054	7.09	1.901	1.31	<2	4.1	146	2.6	31.5	12.3	<.5	3	21	27 .03	63	1		
R 182	<.5	7	12	73	<2	22	17	1294	5.01	3	2	<4	14	119	.2	<1	<1	164	3.69	.048	52	87	1.82	206	.722	7.17	2.310	1.03	<2	6.1	101	<.5	25.1	7.3	<.5	3	24	20<.02	46	<1		
R 183	.9	11	10	52	<2	32	8	916	3.50	6	<1	<4	10	173	<.2	<1	1	64	.92	.054	47	54	.62	305	.750	4.84	.730	1.35	<2	5.1	82	1.6	23.6	13.2	<.5	2	9	35 .04	53	<1		
R 184	1.2	17	13	54	<2	27	9	536	3.19	3	<1	<4	15	159	.2	<1	<1	65	.77	.065	53	55	.79	405	.488	5.51	.622	1.86	<2	4.7	98	.8	21.5	7.6	<.5	2	9	39 .04	75	<1		
R 185	.8	8	9	45	<2	22	9	908	4.00	8	1	<4	20	170																												



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm
R 193	3.0	15	20	44	<.2	30	10	1010	3.65	3	8	<.4	18	361	.5	<.1	4	77	2.89	.129	57	75	.89	384	.638	6.77	1.356	1.48	<.2	6.8	102	3.0	28.9	18.3	<.5	3	13	44	.04	66	1
R 194	.6	12	15	78	<.2	22	13	1144	4.21	4	5	<.4	19	146	.5	<.1	3	107	3.70	.078	68	58	2.37	376	.880	6.18	1.625	1.41	<.2	6.5	128	3.9	34.2	14.2	<.5	4	15	33	.03	72	1
R 195	.7	17	14	100	.2	23	15	1372	5.88	3	9	<.4	9	161	.5	1	4	153	2.96	.052	38	65	1.68	292	1.669	6.53	1.631	1.27	<.2	4.6	75	<.5	28.7	21.5	<.5	3	20	44	<.02	70	1
R 196	1.4	14	21	78	<.2	21	9	1316	3.67	<.2	17	<.4	14	188	.3	<.1	1	75	2.35	.092	52	51	.95	349	.656	6.26	1.481	1.67	2	12.0	94	3.5	31.0	13.2	<.5	3	12	41	.03	80	1
R 197	<.5	34	5	99	.4	36	33	2127	10.25	2	8	<.4	8	156	.7	2	5	309	6.11	.194	35	86	2.98	96	2.553	6.04	1.664	.57	<.2	13.1	71	.7	41.1	24.8	<.5	2	33	34	<.02	28	2
R 198	.8	11	17	61	<.2	20	9	1117	3.64	<.2	14	<.4	17	149	.4	<.1	1	57	1.63	.098	49	56	.79	334	.540	5.74	1.655	1.38	<.2	6.4	94	<.5	25.2	9.3	<.5	3	11	34	.03	64	<.1
R 199	.6	10	16	64	<.2	18	10	1866	4.47	<.2	6	<.4	14	191	.4	<.1	2	81	2.72	.088	45	57	.89	249	.893	6.27	1.433	1.14	2	5.3	83	1.8	36.3	17.1	.9	3	16	37	<.02	59	1
R 200	.8	10	17	63	<.2	19	10	1322	4.04	2	9	<.4	16	207	.4	<.1	3	85	2.95	.080	58	52	1.00	290	.792	6.30	1.545	1.36	<.2	5.4	104	2.6	35.1	14.5	<.5	4	14	30	.02	68	1
R 201	1.6	44	14	44	<.2	31	17	795	4.33	<.2	3	<.4	17	229	.3	<.1	1	75	1.80	.075	81	50	1.01	308	.596	5.25	.951	1.60	23	5.0	148	<.5	27.5	8.1	<.5	2	12	28	.30	71	<.1
R 202	1.0	12	9	48	<.2	15	6	467	2.45	3	<.1	<.4	11	156	<.2	<.1	1	51	.42	.047	51	39	.46	309	.565	4.41	.667	1.66	2	6.7	91	1.4	12.7	13.6	<.5	2	7	25	.04	63	<.1
R 203	1.0	25	11	58	<.2	25	16	1044	5.45	2	3	<.4	12	241	.3	1	4	128	1.96	.091	56	54	1.24	263	1.489	5.61	1.215	1.18	<.2	6.8	103	<.5	30.2	15.8	<.5	2	16	28	<.02	63	1
R 204	.9	19	12	87	<.2	23	16	1109	5.35	<.2	3	<.4	10	152	.3	<.1	3	147	1.89	.078	47	56	1.20	298	1.475	5.85	1.303	1.29	6	5.4	86	<.5	29.4	16.6	<.5	2	17	23	<.02	66	1
R 205	.9	14	10	78	<.2	18	11	693	3.90	<.2	2	<.4	15	159	.3	<.1	2	87	1.08	.052	54	44	.85	340	.892	5.80	1.566	1.56	<.2	4.1	103	<.5	20.1	12.6	<.5	2	12	24	.03	72	1
RE R 205	.8	13	9	75	<.2	18	10	689	3.73	<.2	1	<.4	11	157	<.2	<.1	2	83	1.05	.049	48	43	.84	333	.866	5.69	1.543	1.52	6	3.5	90	<.5	19.5	12.5	<.5	2	11	24	.03	72	<.1
R 208	.6	39	12	66	<.2	33	20	1068	6.77	<.2	4	<.4	17	383	.4	1	3	139	3.09	.167	76	64	1.47	273	1.255	6.68	1.531	1.31	11	5.1	138	.6	35.7	21.0	<.5	2	18	39	.03	76	1
R 209	.7	30	10	66	<.2	29	16	789	4.93	3	5	<.4	16	479	<.2	<.1	2	107	3.10	.137	70	59	1.07	248	1.155	6.03	1.358	1.02	<.2	6.5	130	<.5	32.6	13.5	<.5	2	16	36	.03	55	<.1
R 210	.8	8	22	63	<.2	16	8	1920	2.89	<.2	6	<.4	28	179	.2	<.1	1	48	1.38	.053	81	45	.53	436	.344	5.91	1.549	1.67	<.2	11.9	146	<.5	32.2	7.2	<.5	2	12	24	.03	62	<.1
R 211	.7	7	22	45	<.2	15	6	1859	2.49	<.2	5	<.4	23	159	<.2	<.1	<.1	36	1.23	.051	64	40	.45	347	.243	5.45	1.581	1.46	<.2	2.8	111	<.5	28.0	6.5	<.5	2	10	19	<.02	51	<.1
R 213	.9	14	23	54	<.2	32	10	1148	3.49	<.2	18	<.4	23	206	<.2	<.1	1	70	1.49	.066	72	72	.77	498	.500	6.99	1.658	2.26	3	6.6	124	1.9	24.5	14.1	<.5	3	11	52	.03	131	<.1
R 214	.8	28	23	59	<.2	45	16	1208	4.70	<.2	5	<.4	17	256	.2	<.1	<.1	88	2.51	.101	58	98	1.16	484	.477	7.93	1.317	1.97	<.2	4.0	101	<.5	26.8	12.3	<.5	3	14	52	.08	105	<.1
R 218	.9	14	21	59	<.2	25	11	1772	3.68	<.2	10	<.4	42	249	.3	<.1	1	63	1.93	.090	136	59	.73	594	.449	7.18	1.611	1.90	<.2	6.4	236	1.1	40.7	11.8	<.5	2	16	33	.02	75	<.1
STANDARD CT3	26.6	61	34	169	5.7	37	13	959	4.15	62	21	<.4	26	230	24.2	22	22	136	1.52	.094	24	265	.88	1052	.380	7.35	1.909	2.05	27	42.6	43	18.9	12.0	15.7	<.5	5	11	33	.03	75	1
STANDARD G-2	2.0	1	19	56	<.2	7	4	747	2.60	4	3	<.4	8	763	<.2	<.1	1	55	3.07	.090	25	74	.68	1020	.249	8.55	2.797	2.80	2	6.9	46	1.7	12.9	17.3	<.5	3	7	32	<.02	131	<.1

Sample type: SILT PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.



SAMPLE#	Mo ppm	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Ni ppm	Co ppm	Mn ppm	Fe %	As ppm	U ppm	Au ppm	Th ppm	Sr ppm	Cd ppm	Sb ppm	Bi ppm	V ppm	Ca %	P %	La ppm	Cr ppm	Mg %	Ba ppm	Ti %	Al %	Na %	K %	W ppm	Zr ppm	Ce ppm	Sn ppm	Y ppm	Nb ppm	Ta ppm	Be ppm	Sc ppm	Li ppm	S %	Rb ppm	Hf ppm
D 200	1.8	50	31	106	<.2	26	12	408	5.29	<2	2	<4	28	148	<.2	1	1	117	.34	.052	73	99	1.27	964	.446	8.75	1.153	3.15	2	11.6	142	4.6	10.7	14.6	<.5	3	13	37	.03	198	<1
D 202	2.4	51	31	119	.2	36	12	399	5.28	2	2	<4	19	135	<.2	1	2	110	.36	.062	49	93	.89	899	.433	8.59	1.183	2.65	2	22.8	99	4.1	9.8	13.5	<.5	3	11	38	<.02	124	<1
D 204	.7	44	30	127	.2	111	36	967	6.40	5	4	<4	12	531	<.2	2	5	186	5.45	.247	76	195	2.44	500	1.777	9.22	2.195	1.46	8	31.5	153	4.0	36.6	70.7	2.0	3	18	77	<.02	105	2
D 205	1.2	91	28	123	<.2	66	21	693	5.10	2	4	<4	19	374	<.2	1	1	81	1.66	.075	54	86	1.06	896	.392	9.69	1.653	2.69	<2	14.7	122	3.1	19.8	13.1	<.5	3	13	73	<.02	128	<1
D 206	1.1	39	24	76	<.2	53	18	643	3.81	3	3	<4	15	284	<.2	1	<1	92	1.95	.089	53	109	1.19	894	.386	8.61	1.924	2.31	2	20.0	101	3.6	16.5	14.2	<.5	3	14	29	<.02	104	<1
D 207	3.0	71	34	124	<.2	67	26	712	5.69	<2	2	<4	24	221	<.2	1	<1	118	1.38	.096	69	135	1.52	965	.535	10.16	1.444	2.93	<2	14.9	143	4.3	19.7	20.8	<.5	3	17	41	<.02	189	<1
D 210	1.0	12	21	62	<.2	18	9	531	3.22	3	6	<4	14	206	<.2	1	3	74	1.02	.037	44	56	.97	795	.314	8.88	1.628	2.77	<2	7.2	81	5.6	10.5	19.7	<.5	3	13	64	<.02	184	<1
D 212	.5	8	26	42	<.2	8	6	560	2.37	3	5	<4	14	313	<.2	1	3	61	1.74	.072	37	31	.69	784	.232	8.27	2.366	2.47	<2	11.9	66	3.8	12.3	22.2	.7	5	10	45	<.02	128	<1
D 213	1.2	6	16	46	.2	10	9	532	3.60	2	4	<4	13	366	<.2	1	<1	79	2.73	.111	30	43	.91	650	.281	8.31	2.219	1.57	<2	19.5	55	2.0	14.9	19.6	<.5	4	12	55	<.02	70	<1
D 215	1.4	8	12	65	<.2	14	11	649	4.07	<2	4	<4	12	417	<.2	<1	<1	110	2.45	.108	39	57	1.32	979	.449	8.39	2.238	1.86	<2	33.4	73	4.6	18.9	23.9	<.5	2	15	30	<.02	87	1
R 177	.9	23	34	88	<.2	36	15	727	4.02	2	3	<4	16	234	<.2	1	<1	92	1.01	.045	45	80	1.57	1135	.442	9.28	1.643	3.08	2	5.7	91	4.3	15.5	16.6	.8	4	12	99	<.02	172	<1
RE R 177	1.0	23	33	88	<.2	36	15	702	3.94	2	3	<4	16	227	<.2	1	<1	90	.96	.045	50	76	1.55	1117	.437	9.09	1.600	3.04	<2	5.8	98	4.7	16.0	16.8	<.5	5	12	97	<.02	173	<1
STANDARD CT3	25.8	61	37	185	6.0	35	12	937	4.02	60	19	<4	22	224	24.0	22	21	131	1.48	.095	21	258	.86	1045	.373	7.12	1.920	2.01	29	43.0	40	20.0	12.3	16.5	<.5	5	10	33	<.02	75	<1
STANDARD G-2	2.0	1	21	52	<.2	7	4	756	2.61	2	3	<4	6	761	<.2	<1	<1	56	3.11	.090	25	71	.68	1050	.255	9.00	2.843	2.92	<2	7.9	48	.9	14.0	18.0	<.5	3	7	34	<.02	145	<1

Sample type: TILL PULP. Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.