BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1997/1998
REPORT #:	PAP 97-13
NAME:	FRED NILSEN

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations, section 15, 16 and 17.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (*see* section 16) required with this TECHNICAL REPORT.

Name Fred Nilsen. Reference Number 97-98 P30.

LOCATION/COMMODITIES

Project Area (as listed in Part A) Project #one-Tahaetkun Mtn. MINFILE No. if applicable

Location of Project Area NTS 82L S.W. UTM coodinates Lat11-306-589E Long55-73-187N

Description of Location and Access From 9 Km on the whiteman forest service roadturn right onto The Bouleau Lake forest road to 24 Km then left onto Granite Main for 2.5 Km then left onto the old man creek road,follow this road keeping to the right forks for .5Km.

Main Commodities Searched For Precious opal will be the main target that was searched for but any other worthwhile mineral would be also of interest.

Known Mineral Occurrences in Project Area The BRett gold prospect,also the pillar claims north Of little Bouleau lake and the Annie Bell claims North of big Bouleau lake.

WORK PERFORMED

1. Conventional Prospecting (area) 57 days in the Tahaetkun mtn.Bouleau lake area.
2. Geological Mapping (hectares/scale) 0
3. Geochemical (type and no. of samples) 5 rock samples and 1 Petrographic sample.
4. Geophysical (type and line km) 0
5. Physical Work (type and amount) 57 days test pitting,hand trenching and prospecting.
6. Drilling (no,. holes, size, depth in m, total m) 0
7. Other (specify) I worked on Taha claims for my brother for 12 days I did not count And he helped me on my claims for 12 days that I counted double.

SIGNIFICANT RESULTS

Commodities Precious opal was the main target. Claim Name Woc,Toby and BLN claims

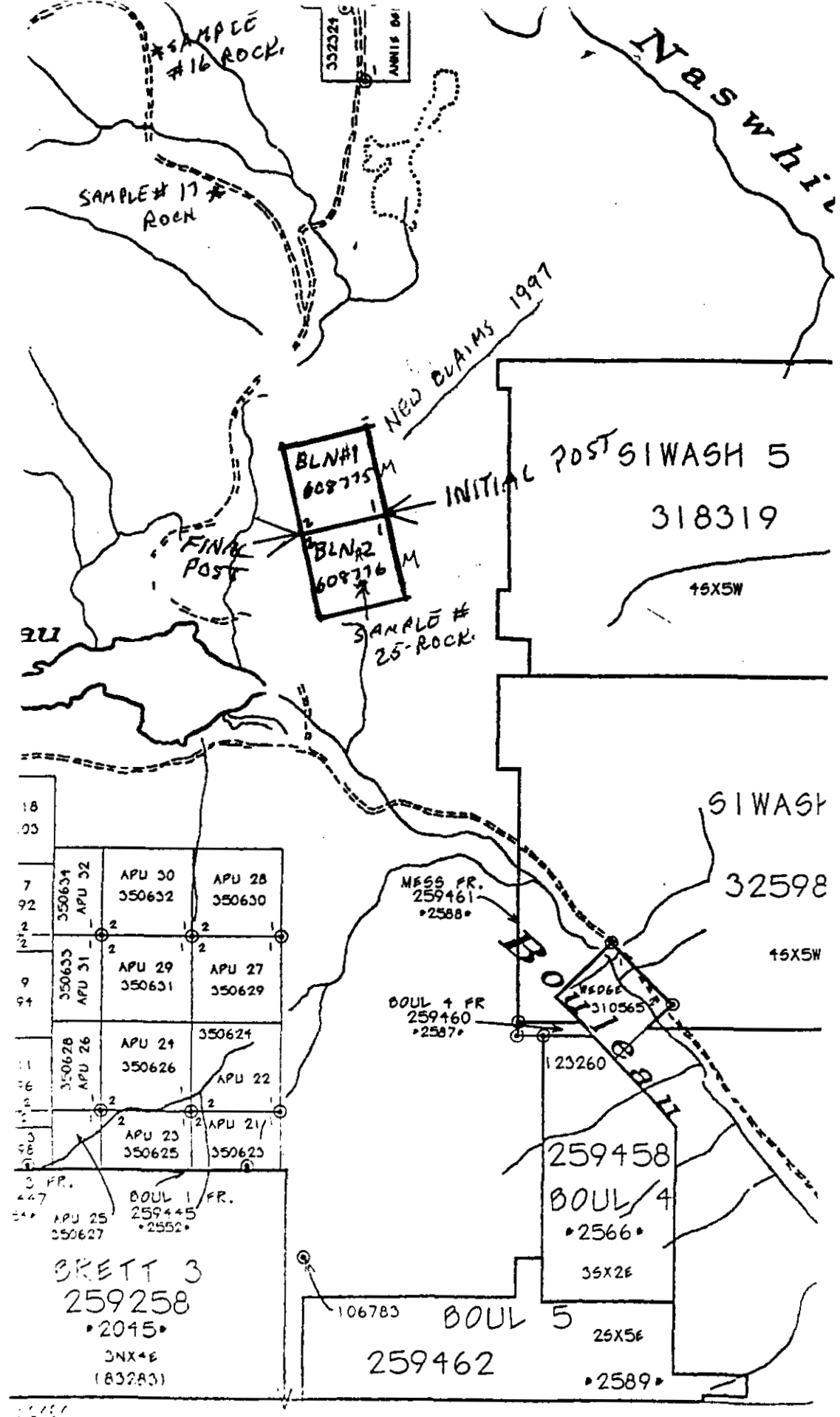
Location (show on map) Lat UTM 11-306-589E Long 55-73-187N Elevation 5300 feet.

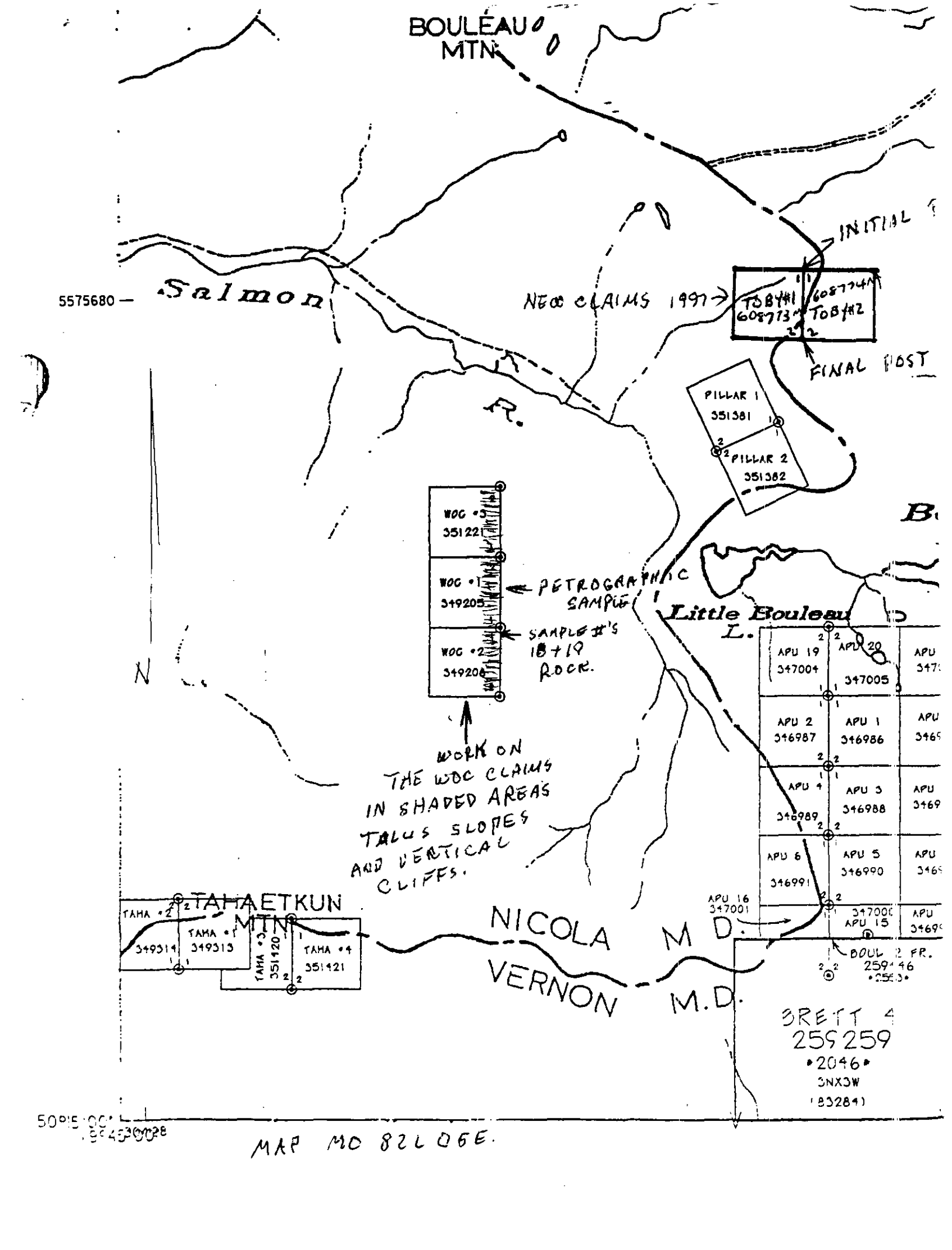
Best assay/sample type Precious opal in vesicular basalt-mostly in very small grains. The other assys turned out to be insignificant.

Description of mineralization, host rocks, anomalies The precious opal occurs in vesicular lahars that are bedded layers with fine grained basalt between and covering the opalized material,the areas showing precious opal have much common opal and agate material associated,the occurance on the Woc claims is in very steep talus slopes with near vertical slopes at the top,the new Toby and BLN claims are on flatter ground and are more suitable for working with machines,there are areas on these new claims with much common opal and agate in the basalts and hopefully precious opal.

Supporting data must be submitted with this TECHNICAL REPORT

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


MAP- MD82L05E
SAMPLE #16 ROCK.
SAMPLE # 17 ROCK
NEW CLAIMS 1997
BLN#1
608775 M
BLN#2
608776 M
INITIAL POST
FINAL POST
SAMPLE # 25-ROCK.
SIWASH 5
318319
15X5W
SIWASH
32598
15X5W
MESS FR.
259461
•2588•
BOUL 4 FR
259460
•2587•
WEDGE
310565
123260
BOUL 4
259458
BOUL 4
•2566•
35X25
BOUL 5
259462
25X5E
•2589•
106783
BOUL 1 FR.
259445
•2552•
BRETT 3
259258
•2045•
3NX4E
(832831)
APU 30
350632
APU 28
350630
APU 29
350631
APU 27
350629
APU 24
350626
350624
APU 22
APU 23
350625
APU 21
350623
APU 25
350627
APU 32
350634
APU 31
350633
APU 26
350628
N.


BOULEAU MTN
INITIAL
5575680
Salmon
NEW CLAIMS 1997
TOBY #1
608773
608774
TOBY #2
FINAL POST
PILLAR 1
351381
PILLAR 2
351382
R.
WOC #3
351221
WOC #1
349205
PETROGRAPHIC SAMPLE
WOC #2
349206
SAMPLE #'S 18 + 19 ROCK.
Little Bouleau L.
APU 19
347004
APU 20
347005
APU 2
346987
APU 1
346986
APU 4
346989
APU 3
346988
APU 6
346991
APU 5
346990
APU 16
347001
APU 15
BOUL 2 FR.
259 46
WORK ON THE WOC CLAIMS IN SHADED AREAS TALUS SLOPES AND VERTICAL CLIFFS.
TAHAETKUN MTN
TAHA #2
349314
TAHA #1
349313
TAHA #3
351420
TAHA #4
351421
NICOLA M D.
VERNON M.D.
BRETT 4
259259
•2046•
3NX3W
(83284)
50°15'00"
120°45'00"
MAP MO 82L 06E.

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

B. TECHNICAL REPORT

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Name Fred Nilsen. Reference Number 97-98 P30.

LOCATION/COMMODITIES

Project Area (as listed in Part A) #2 Tarnezell Lake Project. MINFILE No. if applicable

Location of Project Area NTS 93K 1.250,000 scale. UTM Lat 60-70,000N Long 370,000E

Description of Location and Access Via logging roads from Fort St James between Stuart and Pinchi lakes then cross the Tachie river ,road then divides and goes on both sides of the Tarnezell lake,both roads are in the proposed area.

Main Commodities Searched For Precious metals,copper,lead,zinc,nickel,moly,cobalt or any other worthwhile mineral.

Known Mineral Occurrences in Project Area Pinchi lake mine,The Snowbird occurance on the south end of Stuart lake.

WORK PERFORMED

1. Conventional Prospecting (area) Four days along road,both sides of lake.
2. Geological Mapping (hectares/scale) 0
3. Geochemical (type and no. of samples) Two rock samples.
4. Geophysical (type and line km) 0
5. Physical Work (type and amount) Traverse outcrops looking for signs of mineralization.
6,. Drilling (no,. holes, size, depth in m, total m) 0
7. Other (specify) Panned several creeks with zero results.

SIGNIFICANT RESULTS

Commodities Only two samples with nothing of interest. Claim Name 0

Location (show on map) Lat Long Elevation

Best assay/sample type Nothing of consequence.

Description of mineralization, host rocks, anomalies The only mineralization found was minor pyrite in a narrow quartz vein in a greenstone outcrop and one good piece of talc float. other than that I found very little of interest in the little time I spent on this project,because of lack of time as other projects proved much more fruitfull and occupied most of the summer.

Supporting data must be submitted with this TECHNICAL REPORT

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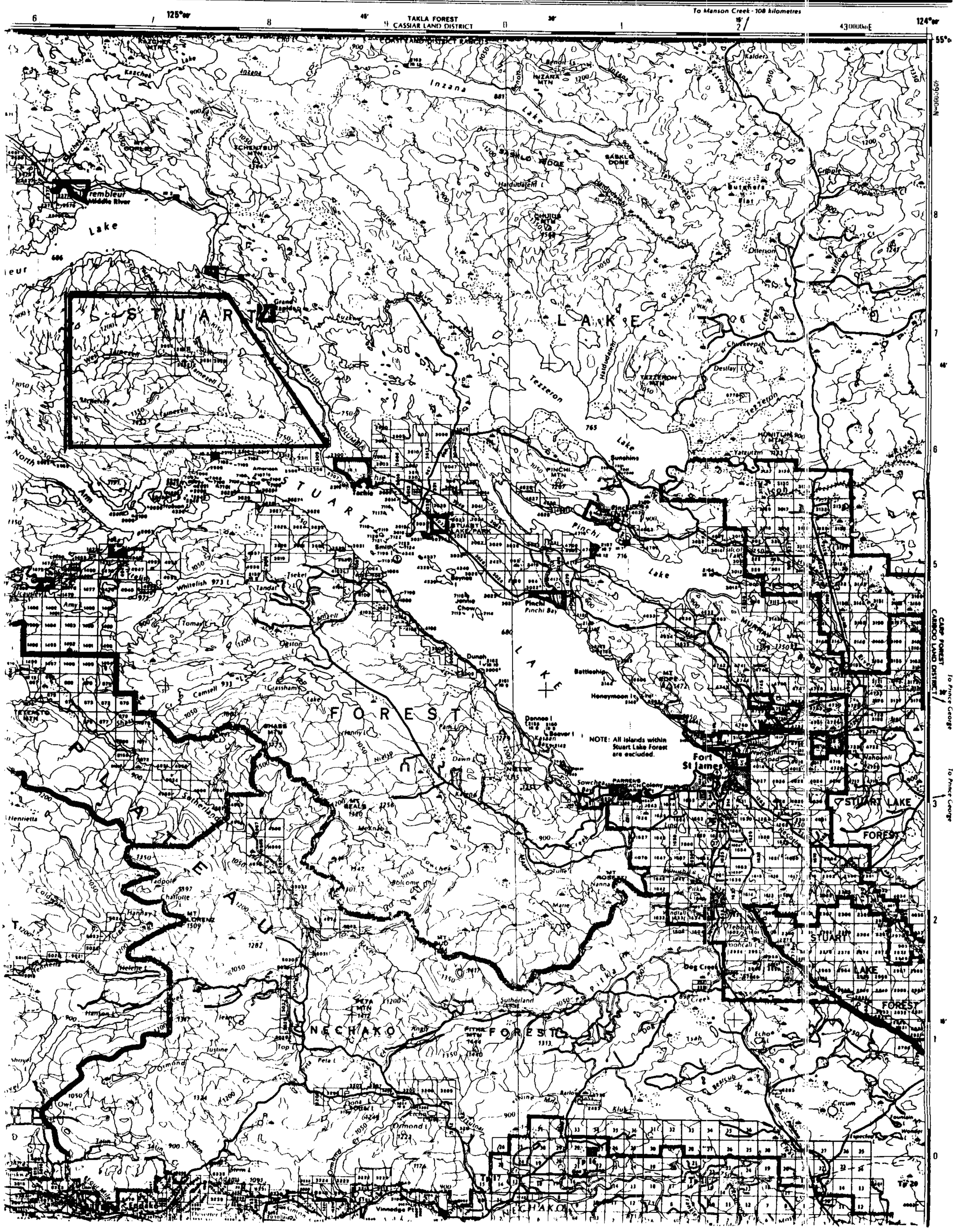
BRITISH COLUMBIA NTS 93K 1:250 000

N

NTS MAP 93

FOURTH STATUS EDITION – December 1



MINERAL & PLACER RESERVE
O/C 1731, 87-09-08
NO STAKING

Tarnezell Cr.

Tarnezell

McKelvey L.

L 3654

3653

L 3652

L 3651

L 3650

L 3650
Talc float found here.

Tarnezell

Quartz samples found here.
Sample# 22 and 23.

I R 5

Kuzkwa

River

L 2339

2341

L 2337

L 2351

2351

L 2349

N

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
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Name Fred Nilsen Reference Number 97-98 P30

LOCATION/COMMODITIES

Project Area (as listed in Part A) Govt.creek project#three. MINFILE No. if applicable

Location of Project Area NTS 93G-1.250,000 scale.UTM Lat 59-35000N Long 532500E

Description of Location and Access Highway 97 south from Prince George to one Km past stone creek turn left onto the stone creek forest access road to eleven Km on this road,then right Onto the govt.lake forest road,three to seven Km onthis road is center of area.

Main Commodities Searched For Gold,silver,copper,lead,zinc,tungsten,molybdenite or any other mineral of value.

Known Mineral Occurrences in Project Area Placer gold on lower Govt.creek,scheelite on George creek,placer gold in Hixon creek.

WORK PERFORMED

1. Conventional Prospecting (area) 12 days soil and rock sampling.
2. Geological Mapping (hectares/scale) 0
3. Geochemical (type and no. of samples) 22 soil and 18 rock chip samples.
4. Geophysical (type and line km) 0
5. Physical Work (type and amount) Taking rock samples off outcrops and soil sampling.
6. Drilling (no. holes, size, depth in m, total m) 0
7. Other (specify) All days spent traverseing outcrops taking samples in likely looking areas.most of the area of outcrop was granites.

SIGNIFICANT RESULTS

Commodities the only results of interest,molybdenite Claim Name 0

Location (show on map) Lat UTM 59-35000n Long 532500E Elevation 3500 feet.

Best assay/sample type #9 rock chip,7605 ppm Mo.The sample was in dark rock containing needles of tremolite and micas.

Description of mineralization, host rocks, anomalies Flecks of Mo in a dyke of basic rocks imbedded in granites.Also some Mo showing in Granite pegmatites in a seperate area.

The whole area is almost entirely made up of granitic outcrops which contain very little mineralization of interest only small showings of Mo.

Soil samples taken in the area where Dissapointing,indicating very local mineralization.

Supporting data must be submitted with this TECHNICAL REPORT

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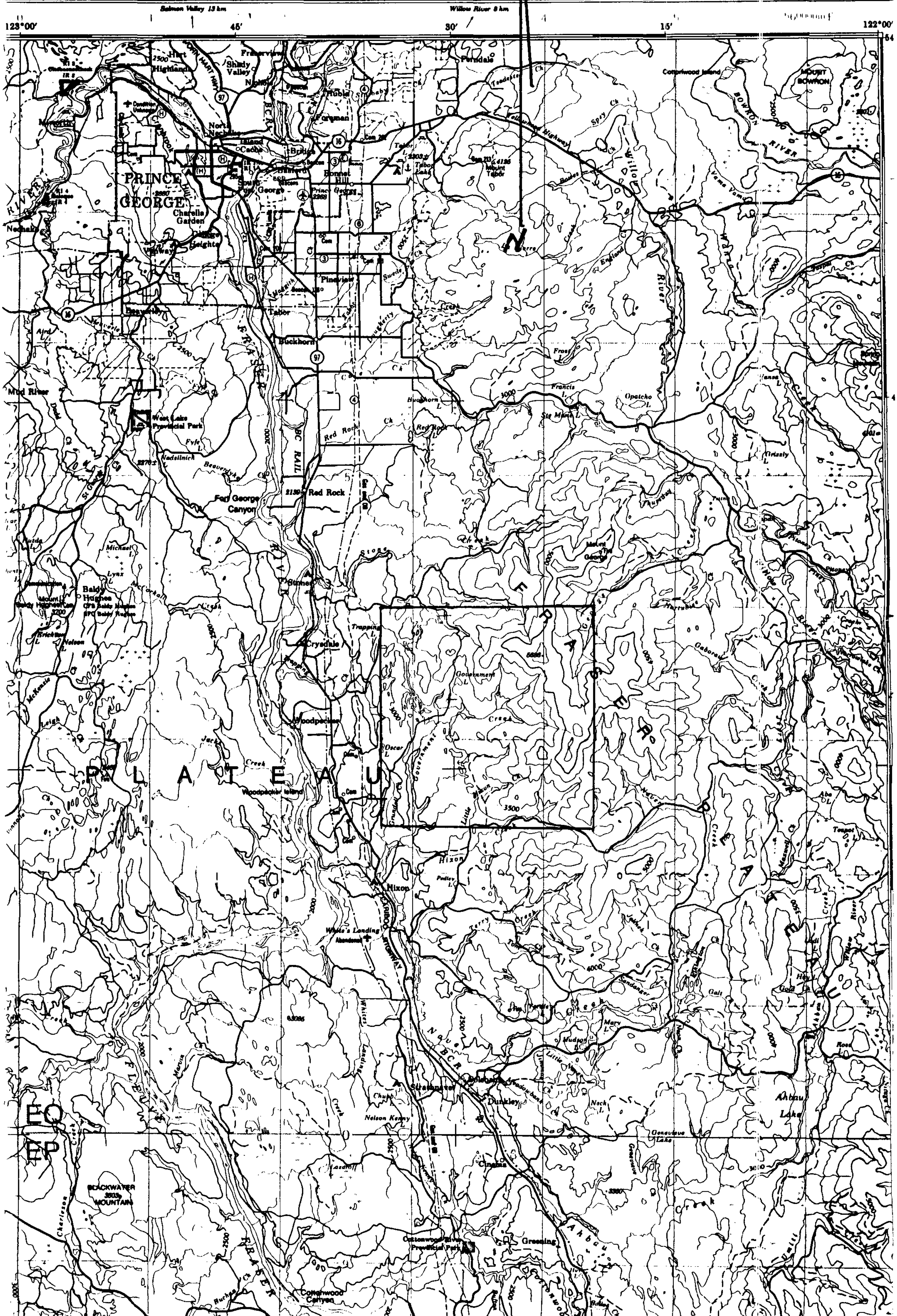
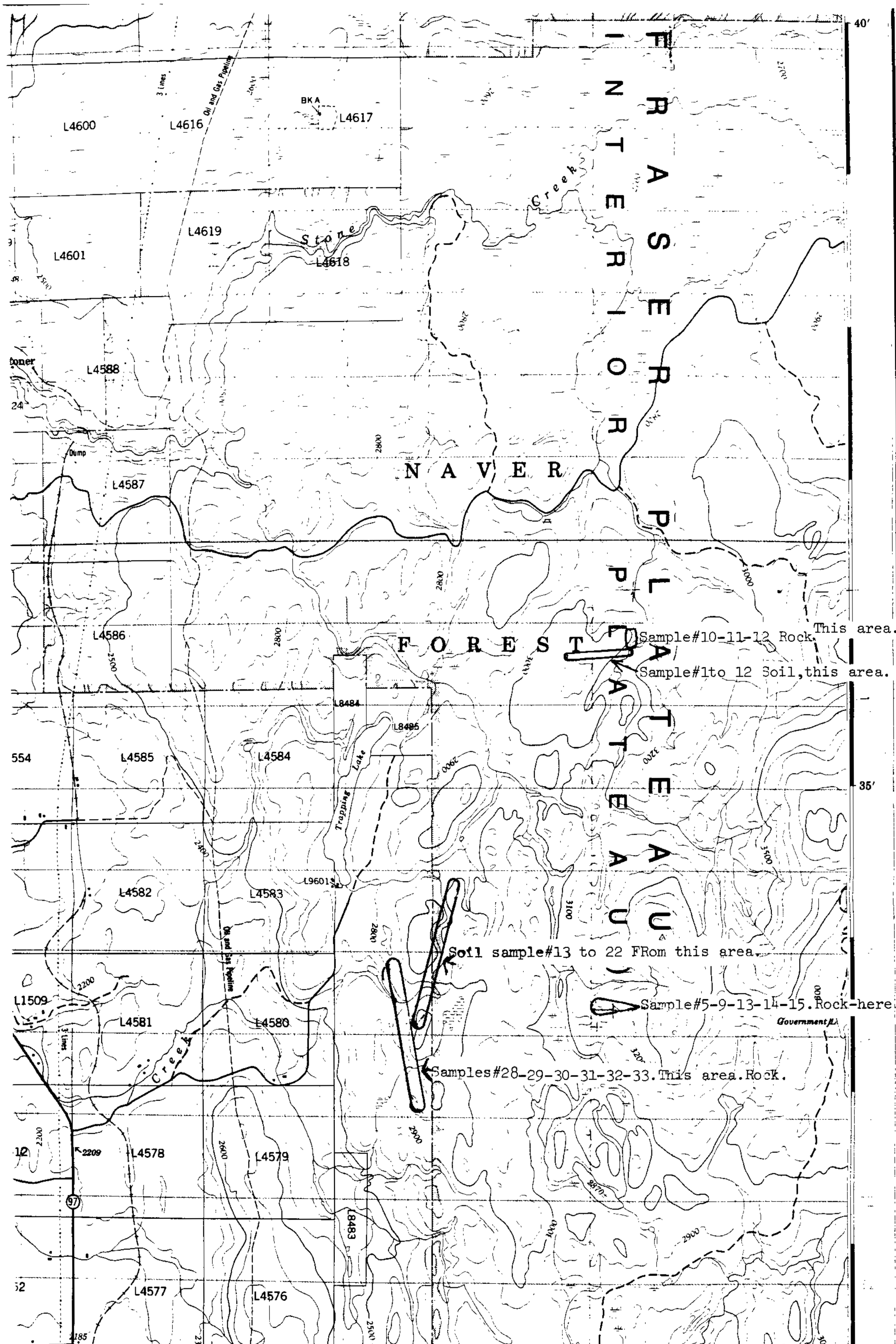

Salmon Valley 13 km
Willow River 8 km
123°00′
45′
30′
15′
122°00′
Hart Highlands
Shady Valley
Fraserview
Ferndale
Foreman
Hubble
Nukko
North Nechako
Island Cache
Bonnet Hill
Prince George
PRINCE GEORGE
Charella Garden
Heights
South Fort George
Pineview
Tabor
Beaverley
Buckhorn
Mount Tabor
Tabor Lake
Cottonwood Island
MOUNT BOWRON
BOWRON RIVER
Yellowhead Highway
Spey Ck
Willow
Willow River
Vama Vama
Tsadestsa Ck
England
Swede Creek
Dougherty
Frost L
Francis L
Opatcho L
Ste Marie L
Huckhorn L
Red Rock L
Grizzly L
Mud River
Aird L
Dodd
West Lake Provincial Park
Fyfe L
Nadsilnich L
Beaverdyke Ck
Fort George Canyon
Red Rock
BC RAIL
Stoner
Stone
Mount Baldy Hughes
Baldy Hughes
Lynx L
Michael L
McCorkell Creek
Nelson L
McKenzie
Leigh
Cryedale
Trapping L
Woodpecker
Woodpecker Island
Government L
Government
Oscar L
Grundell Ck
Little Naver
Hixon
Pedley L
Terry Creek
Mount George
Thunder
Creek
Pitoney Ck
Hanse L
Naver Creek
Gaboreau
Abe L
Teapot L
Maxwell Ck
FRASER PLATEAU
P L A T E A U
White's Landing Abandoned
CARIBOO HIGHWAY
Whites Landing Creek
Naver
BCR
Strathnaver
Chubb L
Nelson Kenny L
Lazaroff
Dunkley
Meadowbank
Cinema
Greening
Cottonwood River Provincial Park
Cottonwood Canyon
Genevieve Lake
Hudson L
Mary L
Nech L
Sandanger
Galt
Hay L
Gold Ck
Ahbau
Ahbau Lake
Ahbau Creek
Ross L
Umiti
BLACKWATER MOUNTAIN
Charleson Creek
FLEUVE
FRASER
Buchan Ck
Bolen Ck
EQ
EP



Use diagram only to obtain numerical values
APPROXIMATE MEAN DECLINATION 1984
FOR CENTRE OF MAP

N'utilisez le diagramme que pour obtenir les valeurs numériques
DÉCLINAISON MOYENNE APPROXIMATIVE
AU CENTRE DE LA CARTE EN 1984
Variation annuelle décroissante 9.8'

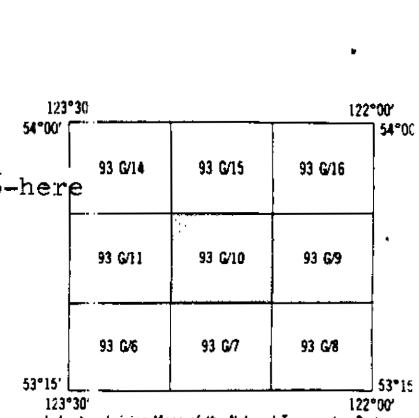
ONE THOUSAND METRE
UNIVERSAL TRANSVERSE MERCATOR GRID
ZONE 10
QUADRILLAGE DE MILLE MÈTRES
TRANSVERSE UNIVERSEL DE MERCATOR

GRID ZONE DESIGNATION. DESIGNATION DE LA ZONE DU QUADRILLAGE	100 000 m SQUARE IDENTIFICATION IDENTIFICATION DU CARRÉ DE 100 000 m
10 U	EQ

EXAMPLE OF METHOD USED TO GIVE A REFERENCE TO NEAREST 100 METRES
EXEMPLE DE LA MÉTHODE EMPLOYÉE POUR FIXER DES REPÈRES A 100 MÈTRES PRÈS

REFERENCE POINT / POINT DE REPÈRE	CHURCH - ÉGLISE	(as above) (ci-dessus)
EASTING: Read number on grid line immediately to left of point: ABSCISSE: Noter le chiffre de la ligne du quadrillage immédiatement à gauche du repère:		97
Estimate tenths of a square from this line eastward to point: Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction est.		5
		975
NORTHING: Read number on grid line immediately below point: ORDONNÉE: Noter le chiffre de la ligne du quadrillage immédiatement en dessous du repère:		98
Estimate tenths of a square from this line northward to point: Estimer le nombre de dixièmes du carré entre cette ligne et le repère en direction nord:		4
		984
GRID REFERENCE: REFÉRENCE AU QUADRILLAGE:		975984

Nearest similar grid reference 100 000 metres
La prochaine référence similaire est à 100 000 mètres



Index to adjoining Maps of the National Topographic System
Tableau d'assemblage du Système national de référence cartographique

...monuments can ...nch, Ottawa.
Pour tout renseignement concernant les repères et bornes altimétriques, s'adresser aux levés géodésiques, Direction des levés et de la cartographie, Ottawa.

...EVATIONS
ÉCHELLE DE CONVERSION DES ALTITUDES
100 150 200 250 300 Mètres
300 400 500 600 700 800 900 1000 Pieds

ÉQUIDISTANCE DES COURBES 100 PIEDS
Altitudes en pieds
Système de référence géodésique nord-américain 1927
Projection transverse de Mercator

Établie par la DIRECTION DES LEVÉS ET DE LA CARTOGRAPHIE. MINISTÈRE DE L'ÉNERGIE, DES MINES ET DES RESSOURCES. Mise à jour à l'aide de photographies aériennes prises en 1978 et 1980. Vérification des ouvrages en 1983. Publiée en 1985.

Ces cartes sont en vente au Bureau des Cartes du Canada, ministère de l'Énergie, des Mines et des Ressources, Ottawa, ou chez le vendeur le plus près.

RED ROCK
93 G/10
EDITION 2 ÉDITION

Energy, Mines and Resources Canada
Énergie, Mines Ressources Ca

BRITISH COLUMBIA
PROSPECTORS ASSISTANCE PROGRAM
PROSPECTING REPORT FORM (continued)

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Name Fred Nilsen. Reference Number 97-98 P30

LOCATION/COMMODITIES

Project Area (as listed in Part A) Project #four MINFILE No. if applicable

Location of Project Area NTS 93G11W Mainly Lat Various Long Various.

Description of Location and Access These are float samples taken from new roads and clearcuts. Maps enclosed. One is a talc deposite staked and trenched and backfilled by Gerry Klein and myself(Too fractured Andtoo many enclusions)20 Km Gregg cr. rd.Turn right 4Km.

Main Commodities Searched For Precious metals or any other whorthwhile commodity.

Known Mineral Occurrences in Project Area the Dahl lake limestone quarry is the only near occurance I know of that amounts to anything.

WORK PERFORMED

1. Conventional Prospecting (area) Traversing new logged areas and new roads float prospecting.
2. Geological Mapping (hectares/scale) 0
3. Geochemical (type and no. of samples) 7 rock samples for assay,talc samples for tests.
4. Geophysical (type and line km) 0
5. Physical Work (type and amount) Collecting rock samples,traversing clearcuts.
6. Drilling (no,. holes, size, depth in m, total m) 0
7. Other (specify) I helped stake the Greg claims(map)Laid out grid,trenched and backfilled

SIGNIFICANT RESULTS

Commodities Talc deposite. Claim Name Greg.

Location (show on map) Lat UTM 5950909N Long 0480235E Elevation 3000 feet.

Best assay/sample type Rock sample #27-97 .Sample from a narrow quartz vein in greenstone outcrop,near talc deposit.

Description of mineralization, host rocks, anomalies The talc is a dyke that is enclosed on all sides by greenstone as is the quartz.Other rock samples are all from float rocks.

The talc turned out to be to full of fractures to be any good for carving stone And too impure for commercial use(quartz inclusions also iron oxides making it very rusty.

The Greg claims are jointly owned by G.Klein and myself.

Supporting data must be submitted with this TECHNICAL REPORT

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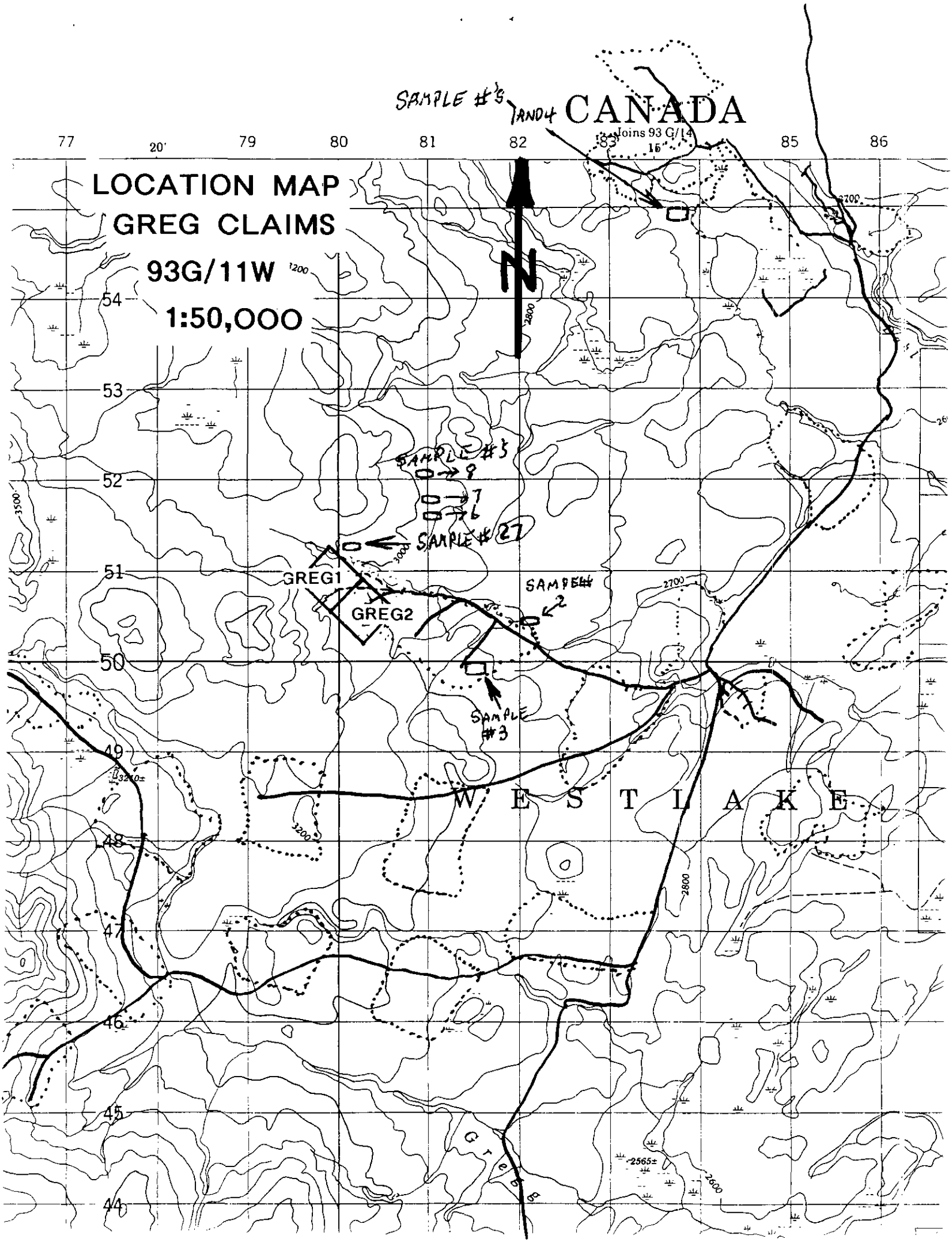
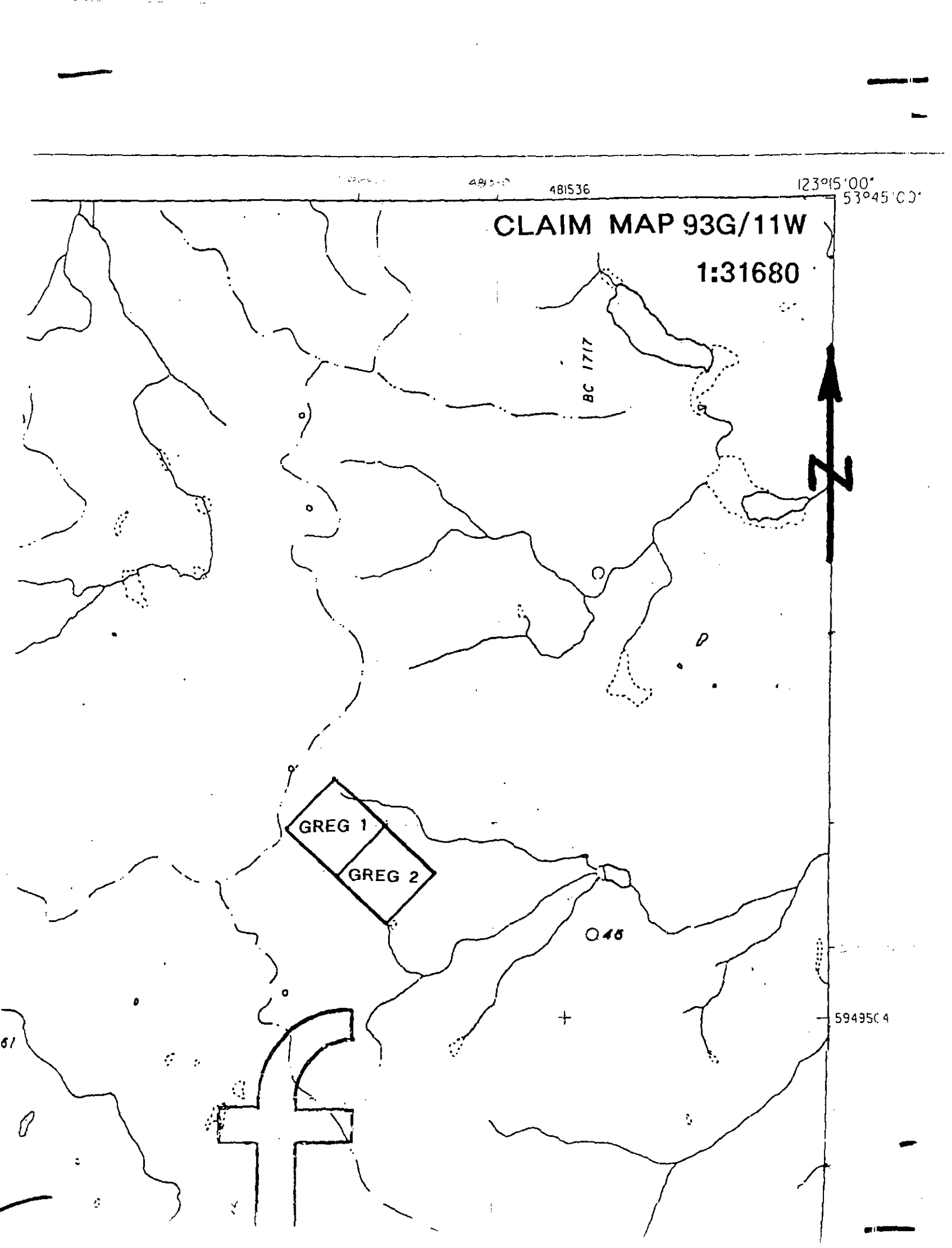
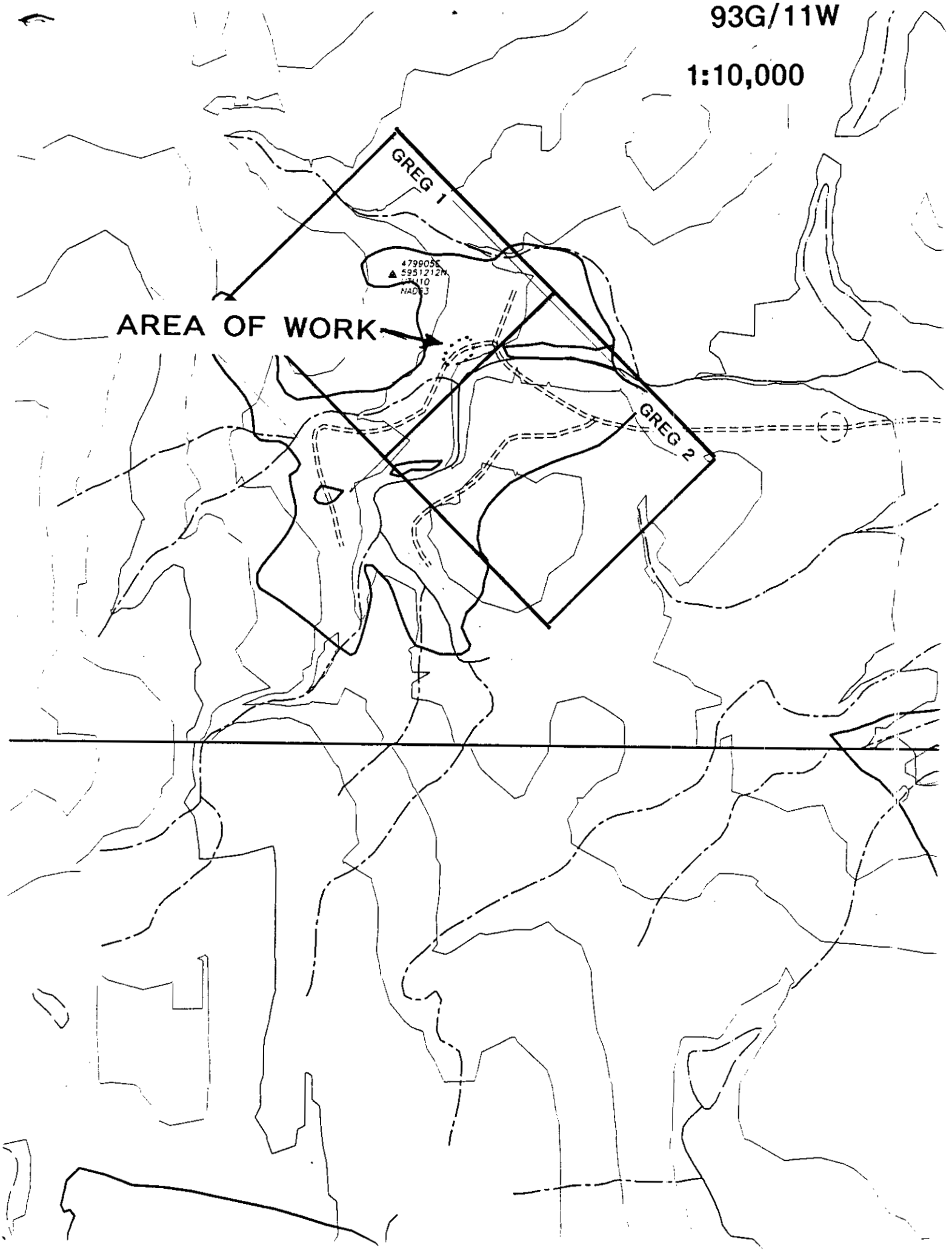

LOCATION MAP
GREG CLAIMS
93G/11W
1:50,000
SAMPLE #'S 1 AND 4
CANADA
Joins 93 G/14
SAMPLE #5
SAMPLE #7
SAMPLE #6
SAMPLE #2
GREG1
GREG2
SAMPLE #3
WESTLAKE
Greb
77
79
80
81
82
83
85
86
54
53
52
51
50
49
48
47
46
45
44


481536
123°15'00"
53°45'00"
CLAIM MAP 93G/11W
1:31680
BC 1717
N
GREG 1
GREG 2
046
5949504


93G/11W
1:10,000
GREG 1
AREA OF WORK
GREG 2

For number of days worked near Vernon,I worked with my brother on his claims when test pitting for twelve days and he helped me for twelve days on my Woc claims.

I did not count the days I worked for him but counted double on the days he worked for me.I hope this was the correct way to count these days.The areas we worked on on these da are very steep and dangerous to work alone.

Vancouver Petrographics Ltd.

8080 GLOVER ROAD, LANGLEY, B.C. V3A 4P9
PHONE (604) 888-1323 • FAX (604) 888-3642

PETROGRAPHIC REPORT ON ONE POLISHED THIN SECTION

Report for: Fred Nilsen
7078 Harward Crescent
Prince George, B.C. V2N 2V7.

Invoice 970753

Nov. 3, 1997.

Hand specimen is dark grey to black, fine-grained and harder than steel. The rock is weakly magnetic but shows no reaction to cold dilute HCl. Parts of the groundmass and some phenocrysts stain yellow for K-feldspar in the etched slab. Modal mineralogy is approximately

Plagioclase (andesine)	55-60%
Pyroxene (clinopyroxene phenocrysts)	10-15%
orthopyroxene groundmass)	10-15%
K-feldspar (matrix)	10-15%
Hematite, trace magnetite	2-3%
Limonite, trace pyrite (?)	<1%

In thin section, this is a fine-grained volcanic rock composed of about 20-30% plagioclase and 10-20% pyroxene phenocrysts in an aphanitic matrix. Plagioclase phenocrysts are euhedral in outline and up to about 1.25 mm in diameter where glomeratic (in places combined with lesser pyroxene crystals). Crystals are strongly reverse zoned near the rims, with composition ranging from An_{43} at the core to An_{47} at the rim (andesine) based on extinction X^001 of 16 and 21 degrees respectively. Most of the crystals are fresh except for minor limonite stains along fractures. Pyroxene phenocrysts are euhedral to subhedral in outline and up to 2 mm in diameter, characterized by dark reaction rims of fine-grained pyroxene (10 micron crystals growing perpendicular to the main crystal outlines) mixed in places with minor opaque oxides of similar size, or stained by minor limonites. Faint green colour, lack of pleochroism, and oblique extinction at about 40 degrees suggests the clinopyroxene may be augite. Small crystals of ?orthopyroxene up to 0.25 mm long also occur scattered in the groundmass.

The groundmass consists of fine euhedral microlites of plagioclase (likely andesine) and pyroxene (possibly ?orthopyroxene since extinction seems to be mainly parallel), mainly less than 75 and 50 microns in length respectively, in a matrix of ?K-feldspar (anhedra of about 25 microns diameter). Traces of extremely fine (5 micron or less) accessory opaque oxides are associated with the pyroxene. They are mostly too fine-grained to identify with certainty, but are likely mostly hematite after magnetite/ilmenite (larger crystals, rarely to 30 microsns, contained in pyroxene phenocrysts consist of cores of magnetite rimmed by hematite). Rare sulfides (likely pyrite) form subhedral crystals up to 0.1 mm diameter in a fracture crossing the slide. Areas of the groundmass with rounded outlines up to several cm long are stained brownish, perhaps by minor limonite due to weathering.

The composition of this porphyritic mafic volcanic rock is somewhat unusual (alkalic) as indicated by the presence of K-feldspar in the groundmass; it may be a latite-basalt.

C.H.B. Leitch, P.Eng.

Craig H.B. Leitch, Ph.D., P.Eng (250) 653-9158
492 Isabella Point Road, Salt Spring Island, B.C. V8K 1V4

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Nilsen, Fred File # 97-6526

7078 Harward Crescent, Prince George BC V2N 2V7

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	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
#16-97	5	216	6	59	.9	21	21	715	5.88	<5	<10	<4	2	409	.5	<5	<5	216	4.64	.153	20	45	2.04	348	.70	8.57	1.92	2.55	9	9	<2	54	8	<1	22	9
#17-97	<2	23	<5	23	<.5	6	3	99	.91	<5	<10	<4	<2	130	<.4	<5	<5	35	.47	.012	20	5	.32	572	.05	1.56	.20	.34	<4	29	<2	14	<2	<1	2	<1
#18-97	<2	3	5	6	<.5	<2	<2	72	1.12	<5	<10	<4	<2	44	<.4	<5	<5	24	.02	.005	<2	8	.01	140	.02	.88	.14	.77	6	<2	<2	<2	<2	<1	<1	3
#19-97	2	24	17	72	<.5	16	10	614	3.19	<5	<10	<4	9	581	<.4	<5	<5	88	2.64	.142	46	35	1.12	1186	.40	7.86	2.29	2.74	<4	151	<2	19	16	<1	7	<1
#20-97	<2	64	7	18	<.5	7	6	848	1.69	<5	<10	<4	<2	1242	<.4	<5	<5	55	12.20	.067	6	17	.60	279	.10	5.73	3.98	.43	<4	8	<2	8	2	<1	7	<1
#21-97	<2	<2	17	38	<.5	<2	<2	317	.81	<5	<10	<4	17	387	<.4	<5	<5	3	.80	.013	46	4	.13	1485	.11	7.01	2.31	3.66	<4	75	<2	19	15	<1	2	<1
#22-97	<2	55	15	63	<.5	9	7	1112	3.79	<5	<10	<4	<2	612	<.4	<5	<5	118	5.78	.041	8	12	1.14	569	.26	8.03	2.63	1.30	<4	5	<2	14	<2	<1	5	<1
#23-97	<2	16	<5	17	<.5	5	<2	453	1.52	<5	<10	<4	<2	196	<.4	<5	<5	48	2.68	.006	3	11	.29	198	.03	2.64	.30	.37	4	<2	<2	9	<2	<1	2	<1
#24-97	3	6	30	37	.5	<2	17	129	1.87	<5	<10	<4	10	118	<.4	<5	<5	11	.32	.022	26	10	.05	2111	.06	7.32	2.88	3.99	<4	121	<2	10	4	<1	3	3
#25-97	<2	2	21	27	<.5	4	2	245	1.59	<5	15	<4	16	574	<.4	<5	<5	14	.75	.013	67	9	.18	1172	.15	4.29	1.02	2.19	<4	80	<2	20	39	1	2	<1
#26-97	<2	136	<5	101	.5	46	35	1875	6.76	<5	10	<4	<2	568	.5	<5	<5	280	7.57	.089	13	63	4.11	218	.63	8.67	1.95	.74	42	21	<2	23	<2	<1	33	1
#27-97	21	57	155	302	27.3	7	3	38	1.13	<5	<10	<4	<2	6	9.1	17	151	10	.06	.006	2	30	.05	24	.01	.38	.02	.12	8	3	<2	<2	<2	<1	<1	<1
#28-97	<2	90	9	43	1.0	69	37	1009	6.49	<5	<10	<4	2	816	.8	<5	<5	254	6.87	.109	10	208	3.39	945	.52	7.97	2.44	2.07	<4	34	<2	20	<2	<1	24	<1
RE #28-97	<2	89	6	40	1.3	71	37	998	6.50	<5	17	<4	2	817	<.4	<5	<5	255	6.87	.109	10	206	3.40	855	.52	8.01	2.45	2.10	<4	33	<2	20	<2	<1	24	<1
#29-97	<2	75	8	472	.6	27	8	2055	3.56	<5	<10	<4	<2	479	5.2	<5	<5	86	6.61	.110	23	53	1.84	1162	.23	4.60	.77	.68	<4	25	<2	29	4	<1	7	3
#30-97	3	97	14	35	<.5	65	10	235	2.50	<5	<10	<4	2	92	<.4	<5	16	80	.28	.024	11	64	.71	1649	.12	3.19	.59	1.49	7	26	<2	9	2	<1	6	2
#31-97	2	159	12	155	.5	30	33	1885	6.20	<5	<10	<4	<2	624	.6	<5	7	342	5.63	.156	14	72	3.77	349	.53	8.62	2.53	.86	<4	13	<2	20	<2	<1	24	<1
#32-97	2	51	5	153	.5	7	18	1632	5.35	<5	18	<4	3	984	.8	6	<5	246	3.21	.176	21	11	2.32	1853	.41	8.64	2.85	3.09	17	35	<2	19	3	<1	16	<1
#33-97	3	1155	<5	215	1.1	31	120	3595	15.34	6	17	<4	3	454	.7	<5	<5	95	8.48	.069	11	11	.50	64	.09	2.85	.37	.06	<4	12	<2	10	<2	<1	1	25
STANDARD CT3/AU-R	24	61	37	164	6.1	37	13	886	4.05	58	22	<4	22	247	21.9	22	13	128	1.53	.102	28	255	.90	984	.38	7.31	1.74	1.83	30	40	17	15	18	4	8	456
STANDARD G-1	<2	<2	19	48	<.5	9	5	675	2.34	<5	<10	<4	3	740	<.4	<5	<5	50	2.45	.077	22	91	.68	921	.22	7.93	2.34	2.73	<4	7	<2	13	14	<1	4	2

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HCLO4-HNO3-HCL-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HCLO4 FUMING.

- SAMPLE TYPE: ROCK AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: NOV 4 1997 **DATE REPORT MAILED:** Nov 13/97 **SIGNED BY** .....D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ROCK SAMPLES.

 Data___ FA ___

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Nilsen, Fred File # 97-2706 Page 1

7078 Harward Crescent, Prince George BC V2N 2V7

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	Sn ppm	Y ppm	Nb ppm	Be ppm	Sc ppm	Au* ppb
#1-97	<2	15	<5	42	<.5	770	45	326	2.85	337	<10	<4	<2	258	<.4	19	<5	20	2.68	.005	2	783	8.23	131	.01	.41	.05	.08	6	2	<2	<2	<2	<1	4	6
#2-97	<2	118	<5	214	.8	58	31	1399	8.20	<5	<10	<4	<2	201	.4	5	13	281	5.68	.117	7	82	2.39	230	1.23	7.11	1.90	1.97	10	9	<2	33	5	<1	33	4
#3-97	3	145	<5	226	<.5	64	38	1367	9.35	7	<10	<4	2	138	.4	10	<5	310	3.84	.103	8	76	2.57	218	1.34	7.35	1.77	1.89	4	9	<2	37	6	<1	37	2
#4-97	5	144	23	158	<.5	109	57	7477	24.04	30	<10	<4	3	81	<.4	<5	<5	113	.08	.042	23	350	.15	2593	.20	3.64	.04	.55	<4	36	<2	19	3	<1	8	2
#5-97	22	564	9	9	.8	52	17	73	3.03	<5	<10	<4	7	191	<.4	<5	<5	2	1.12	<.002	<2	12	.05	46	.01	4.63	2.31	.23	6	9	<2	<2	<2	4	<1	<1
#6-97	811	16	11560	246	35.0	12	<2	77	4.28	15	20	<4	<2	17	1.2	9	69	52	.05	.053	<2	231	.03	410	<.01	.13	.04	.01	24	<2	<2	3	<2	<1	<1	77
#7-97	128	160	65	147	<.5	31	25	1265	6.79	<5	<10	<4	<2	151	<.4	<5	<5	230	4.41	.068	6	60	2.15	124	.93	5.35	1.44	.73	<4	17	<2	26	3	<1	23	7
RE #7-97	131	163	61	149	<.5	32	26	1280	6.90	<5	<10	<4	2	151	<.4	<5	<5	231	4.54	.069	7	66	2.22	122	.93	5.34	1.42	.75	4	18	<2	27	3	<1	23	4
#8-97	993	14	166	6	14.8	6	<2	44	.60	<5	<10	<4	<2	5	<.4	6	154	13	.03	.006	7	33	.04	72	.01	.51	.01	.16	10	<2	<2	<2	2	<1	<1	4
#9-97	7605	191	18	138	<.5	48	19	1263	5.45	<5	<10	<4	24	322	.5	<5	<5	116	4.37	.301	37	84	1.88	179	.64	6.89	2.65	.58	<4	31	3	43	68	9	17	<1
#10-97	4743	44	30	139	.6	54	15	970	3.35	<5	<10	<4	10	442	.5	8	<5	124	4.67	.151	14	265	2.34	904	.34	7.79	3.18	2.78	<4	13	<2	30	16	5	14	<1
#11-97	97	22	7	157	<.5	67	13	1275	3.43	<5	<10	<4	7	685	.9	<5	<5	91	8.39	.478	38	100	2.47	236	.35	6.61	3.98	.19	<4	15	2	50	13	3	12	<1
#12-97	4500	60	14	204	<.5	118	25	1318	3.98	<5	<10	<4	6	454	.8	5	<5	126	6.63	.151	21	303	2.48	253	.37	7.43	3.84	.71	<4	14	<2	37	26	9	16	<1
#13-97	142	207	<5	274	1.6	50	27	1481	8.08	<5	<10	<4	8	176	.5	11	<5	244	3.45	.072	9	66	3.80	54	.86	6.84	1.84	2.06	<4	8	<2	28	22	4	24	<1
#14-97	690	218	6	185	.6	95	28	1783	8.46	<5	<10	<4	7	297	<.4	5	<5	175	6.73	.120	16	94	2.88	88	1.14	7.55	2.32	.52	<4	15	2	37	77	15	22	<1
#15-97	27	241	13	111	.6	75	8	494	3.49	<5	<10	<4	11	421	<.4	<5	<5	118	4.90	.186	29	108	1.73	149	.37	7.78	2.83	1.91	<4	19	<2	37	44	6	15	<1
STANDARD	27	63	34	192	5.1	37	11	859	4.23	49	14	<4	23	245	19.8	12	19	130	1.57	.101	24	264	1.02	1032	.40	7.15	1.80	1.93	24	50	16	15	19	3	9	481

Standard is STANDARD CT3/AU-R.

ICP - .250 GRAM SAMPLE IS DIGESTED WITH 10ML HCLO4-HNO3-HCL-HF AT 200 DEG. C TO FUMING AND IS DILUTED TO 10 ML WITH DILUTED AQUA REGIA. THIS LEACH IS PARTIAL FOR MAGNETITE, CHROMITE, BARITE, OXIDES OF AL, ZR & MN AND MASSIVE SULFIDE SAMPLES. AS, CR, SB, AU SUBJECT TO LOSS BY VOLATILIZATION DURING HCLO4 FUMING.

- SAMPLE TYPE: P1 ROCK P2 SOIL AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)

Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 6 1997 DATE REPORT MAILED: June 21/97 SIGNED BY. C. Leong .D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

ROCK SAMPLES.

Data FA

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Nilsen, Fred File # 97-2706 Page 2

7078 Harward Crescent, Prince George BC V2N 2V7

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 %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
1-S-97	19	42	10	112	<.3	46	12	279	4.01	<2	<5	<2	6	87	.5	<2	4	97	1.74	.603	25	72	.97	123	.06	<3	2.69	.04	.39	<2	1
2-S-97	4	46	11	57	<.3	26	19	271	4.50	2	<5	<2	<2	148	<.2	<2	4	74	1.04	.108	2	21	.60	145	.04	<3	3.50	.06	.18	<2	1
3-S-97	4	14	14	184	<.3	52	13	196	3.15	<2	<5	<2	2	162	.7	<2	<2	73	.83	.229	10	59	.46	129	.06	<3	3.95	.01	.21	<2	1
4-S-97	2	13	5	94	<.3	27	11	163	2.22	<2	<5	<2	3	28	.3	<2	<2	48	.46	.075	10	45	.47	87	.09	<3	1.79	.02	.11	<2	1
5-S-97	18	12	14	88	.3	19	5	118	2.73	4	<5	<2	4	42	<.2	<2	<2	56	.53	.209	9	32	.23	98	.06	<3	1.85	.01	.09	<2	<1
6-S-97	4	28	13	84	<.3	31	10	171	3.43	<2	<5	<2	3	24	<.2	2	3	94	.33	.095	8	74	.59	122	.12	<3	2.24	.01	.12	<2	1
7-S-97	4	17	13	80	<.3	34	8	195	3.59	5	<5	<2	4	21	.2	<2	2	64	.26	.123	13	52	.55	95	.09	<3	2.47	.01	.09	<2	1
8-S-97	4	18	11	75	<.3	42	12	202	3.10	<2	<5	<2	3	36	.2	<2	2	74	.49	.169	11	69	.83	117	.10	<3	2.65	.01	.15	<2	1
RE 8-S-97	4	18	6	73	<.3	40	11	198	3.06	<2	<5	<2	3	35	<.2	2	2	73	.48	.167	11	68	.81	116	.10	<3	2.59	.01	.14	<2	2
9-S-97	3	14	7	80	<.3	28	8	174	2.64	<2	<5	<2	4	21	<.2	<2	5	64	.34	.103	13	58	.56	64	.11	<3	1.78	.01	.08	<2	1
10-S-97	6	15	15	185	<.3	40	9	233	4.02	2	<5	<2	3	60	.2	<2	2	121	.95	.424	14	80	.91	167	.09	<3	2.76	.01	.31	<2	2
11-S-97	3	14	6	54	<.3	22	6	167	2.37	3	<5	<2	3	26	.2	<2	<2	67	.52	.204	13	61	.66	72	.11	<3	1.54	.01	.08	<2	1
12-S-97	1	12	11	48	<.3	23	5	152	2.18	<2	5	<2	2	27	<.2	<2	<2	62	.37	.082	11	56	.53	94	.11	<3	1.28	.01	.10	<2	1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: P1 ROCK P2 SOIL AU* - IGNITED, AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: JUN 6 1997 DATE REPORT MAILED: June 21/97 SIGNED BY. C. Leong D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

SOIL SAMPLES.

Data FA

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

GEOCHEMICAL ANALYSIS CERTIFICATE

Nilsen, Fred File # 97-6525

7078 Harward Crescent, Prince George BC V2N 2V7

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 %	B ppm	Al %	Na %	K %	W ppm	Au* ppb
#13-S-97	1	15	5	34	<.3	311	18	356	2.94	6	<8	<2	<2	25	.3	<3	<3	58	.33	.052	9	251	2.07	93	.12	3	1.19	.03	.06	<2	10
#14-S-97	1	11	5	33	<.3	238	15	263	2.50	12	<8	<2	2	21	.4	<3	<3	54	.29	.051	8	216	1.74	119	.12	6	1.31	.02	.05	<2	4
#15-S-97	<1	7	5	39	<.3	145	12	395	2.10	5	<8	<2	2	21	.4	<3	<3	49	.32	.074	10	154	1.21	94	.12	<3	1.05	.02	.05	<2	20
#16-S-97	<1	15	6	39	<.3	209	12	280	2.41	8	<8	<2	2	20	.5	<3	6	51	.27	.031	10	173	1.33	101	.13	<3	1.20	.02	.04	<2	8
#17-S-97	1	48	7	55	<.3	571	35	660	4.99	12	<8	<2	<2	26	.6	<3	<3	81	.37	.045	13	428	2.75	145	.11	<3	1.69	.03	.07	<2	6
#18-S-97	<1	27	6	45	<.3	350	21	524	3.80	7	<8	<2	<2	36	.5	<3	3	75	.43	.068	17	214	1.63	156	.13	5	1.26	.03	.12	2	3
#19-S-97	1	23	4	39	<.3	282	15	434	3.44	8	<8	<2	2	34	.9	<3	<3	72	.38	.058	18	177	1.28	130	.13	3	1.11	.03	.06	<2	23
RE #19-S-97	<1	23	8	40	<.3	276	17	432	3.46	5	<8	<2	<2	34	.7	<3	<3	71	.38	.057	17	176	1.28	130	.13	<3	1.11	.03	.06	<2	3
#20-S-97	1	11	<3	47	<.3	119	12	364	2.32	5	<8	<2	<2	26	<.2	3	5	54	.27	.073	9	84	.54	137	.13	3	1.51	.02	.05	<2	3
#21-S-97	1	13	7	48	.3	185	17	414	2.54	10	10	<2	2	24	.4	3	<3	59	.30	.082	9	121	.82	138	.12	<3	1.36	.02	.05	<2	2
#22-S-97	<1	9	6	42	<.3	81	8	187	1.96	2	<8	<2	<2	23	<.2	<3	4	52	.27	.045	10	73	.42	134	.15	<3	1.43	.02	.04	<2	<1

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER.
THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL.
- SAMPLE TYPE: SOIL AU* - AQUA-REGIA/MIBK EXTRACT, GF/AA FINISHED.(10 GM)
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

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SOIL SAMPLES.

Page 1 /FA