BRITISH COLUMBIA

PROSPECTORS ASSISTANCE PROGRAM

MINISTRY OF ENERGY AND MINES

GEOLOGICAL SURVEY BRANCH

PROGRAM YEAR:	1994/95
REPORT #:	PAP 94-16
NAME:	JAMES PATRICK

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 James Patrick Reference Number 94-95-P38

LOCATION/COMMODITIES

Project Area (as listed in Part A.) McCulloch Creek Minfile No. if applicable _____

Location of Project Area NTS 082M9W Lat 51° 41' Long 118° 28'

Description of Location and Access 105km North on HWY23N of Revelstoke- East 18.5km on French creek and McCulloch creek roads.

Main Commodities Searched For Au - Cu

Known Mineral Occurrences in Project Area Goldstream Cu-Zn-Ag
Bethleham - Ole the Bull(Stanmack) Orphin Boy
McCulloch creek Placer

WORK PERFORMED

1. Conventional Prospecting (area) 200 Hectars
2. Geological Mapping (hectares/scale) 75 Hectares 1cm = 20m
3. Geochemical (type and no. of samples) Rock-24 Soil-27 Stream-10 All assayed Au & ICP
4. Geophysical (type and line km) S.P. Results unsatisfactory
5. Physical Work (type and amount) Gridlines
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

SIGNIFICANT RESULTS (if any)

Commodities Au Claim Name C.O.D.

Location (show on map) Lat 51 42'.4' Long 118° 28' Elevation 1981.2 meters

Best assay/sample type 1.89 Au in quartz with massive sulphides - pyrite and pyrrhotite

Description of mineralization, host rocks, anomalies The Au is in up too 2ft. quartz veins - striking 010 - 020 with pyrite, pyrrhotite sulphides, host rocks are spotted phyllites with carbonate alteration next to quartz veins.

Supporting data must be submitted with this TECHNICAL REPORT.

PROSPECTING and GEOCHEM REPORT

on the

Debby 1-8 Mad Trapper 1-8

COD L2653

LAST CHANCE L2666

Revelstoke Mining Division
NTS 082M/09W

Debby & Mad Trapper	Latitude -	51 41	51 43
	Longitude -	118 28	118 28.6
COD	Latitude -	51 42.4	
	Longitude -	118 27.1	
Last Chance	Latitude -	51.41.7	
	Longitude -	118 28.0	

OWNERS: Robert Westerberg Mineral
Mrs. Oakey Crown Grants

AUTHOR: James Patrick

Report Date: November 1994

Date Submitted: December 1994

James Patrick

Table of Contents

Contents Continued:

Introduction

General Statement:

The Debby 1-8, Mad Trapper 1-8 mineral, Last Chance, COD Crown Grants, are located in an area of several Placer gold producing creeks, and in the vicinity of ole Bull (STANMACK) and Orphan Boy lode gold workings which were abandoned in the early 1900's.

The Goldstream deposit is currently being mined by Bethlehem Resources, for its copper, zinc and silver. This deposit is one of several strata bound massive sulphide deposits in the area, hosted by meta sedimentary and meta volcanic rocks.

This report deals with results of a Preliminary program consisting of grid preparation, geo-chemical sampling and outcrops and vein sampling, conducted on the McCulloch creek property by a two man crew between August 1994 and October 20, 1994. The work was concentrated on two crown grants and sixteen 2 post claims, which a large sulphide bed was discovered.

Location and Access

The property is located in the Selkirk Mountains of British Columbia, on the East side of the Columbia River and the West side of the Goldstream River. Approximately 120Km North of Revelstoke B.C.

The property may be reached by road by travelling 105 Km north on HWY 23 N of Revelstoke and then East 18.5 Km to the Debby 1-8 and Mad Trapper 1-8 2 post claims and 21 Km to the two Crown Grant COD and Last Chance.

During the current work, access to the properties was by 4x4 truck. Camp was located at the 4600' elevation on McCulloch creek and was used as a base camp.

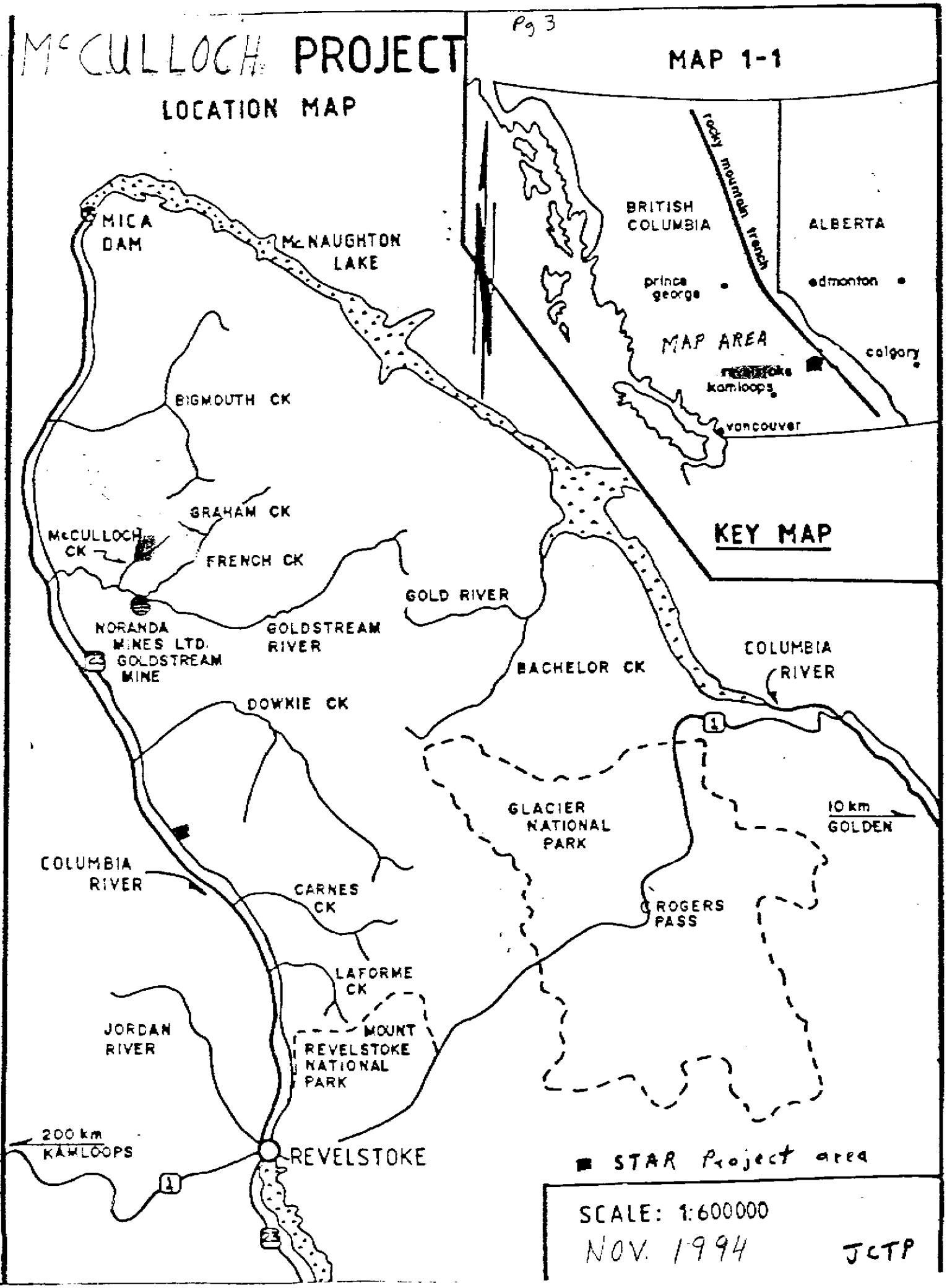
Topography and Vegetation

Topography on the properties varies from precipitous to gentle rolling alpine meadows. Elevations range from 1400m in McCulloch creek to 2011m in the alpine.

McCULLOCH PROJECT

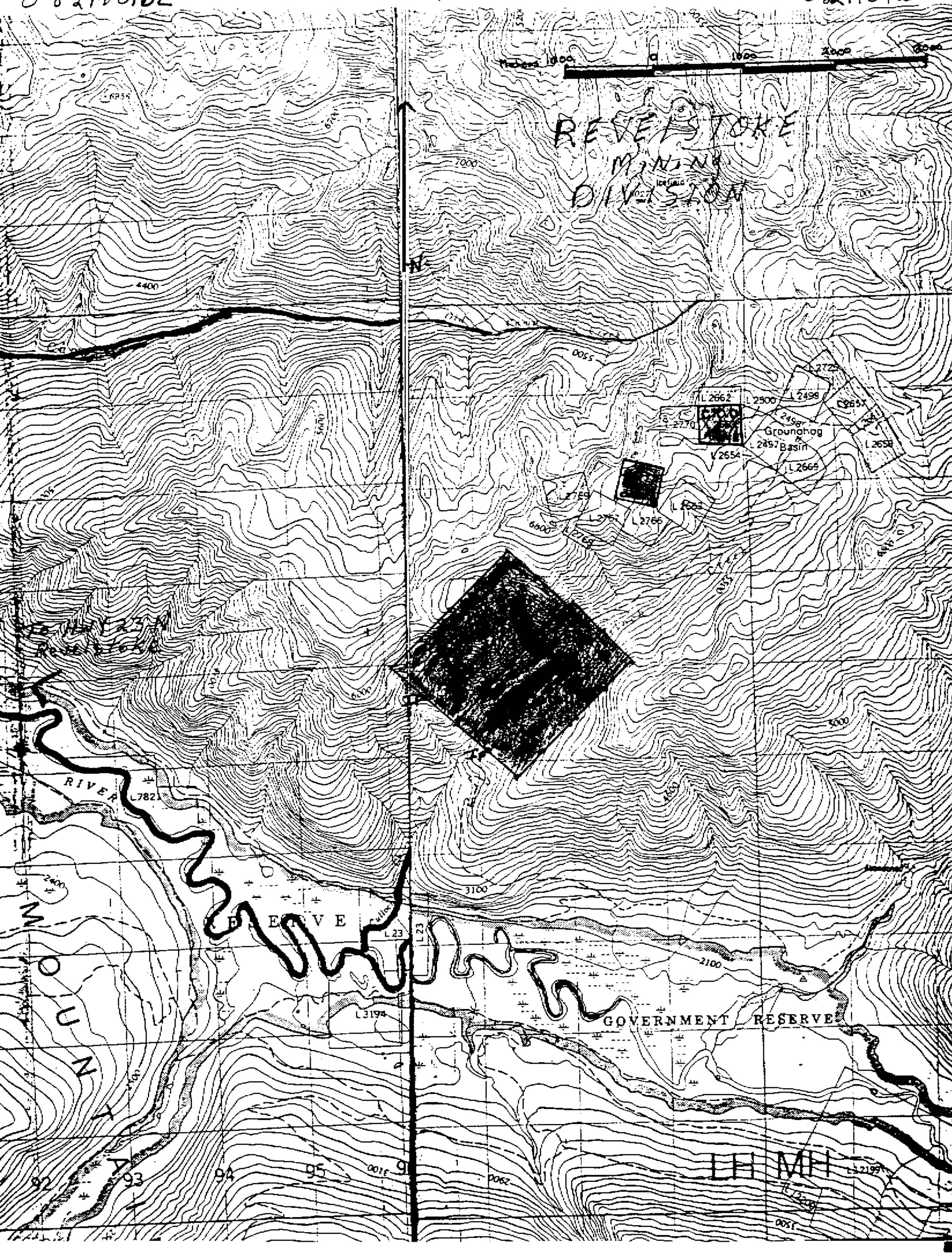
LOCATION MAP

MAP 1-1



082M01DE

082M09W



Property and Title

The Debby 1-8 and Mad Trapper 1-8, 2 post claims and the two Crown Grants, COD and Last Chance are located in the Revelstoke Mining Division.

The total area of the properties is 444.5611 unsurveyed ha.

LIST OF CLAIMS
LIST OF CLAIMS

Robert Westerberg

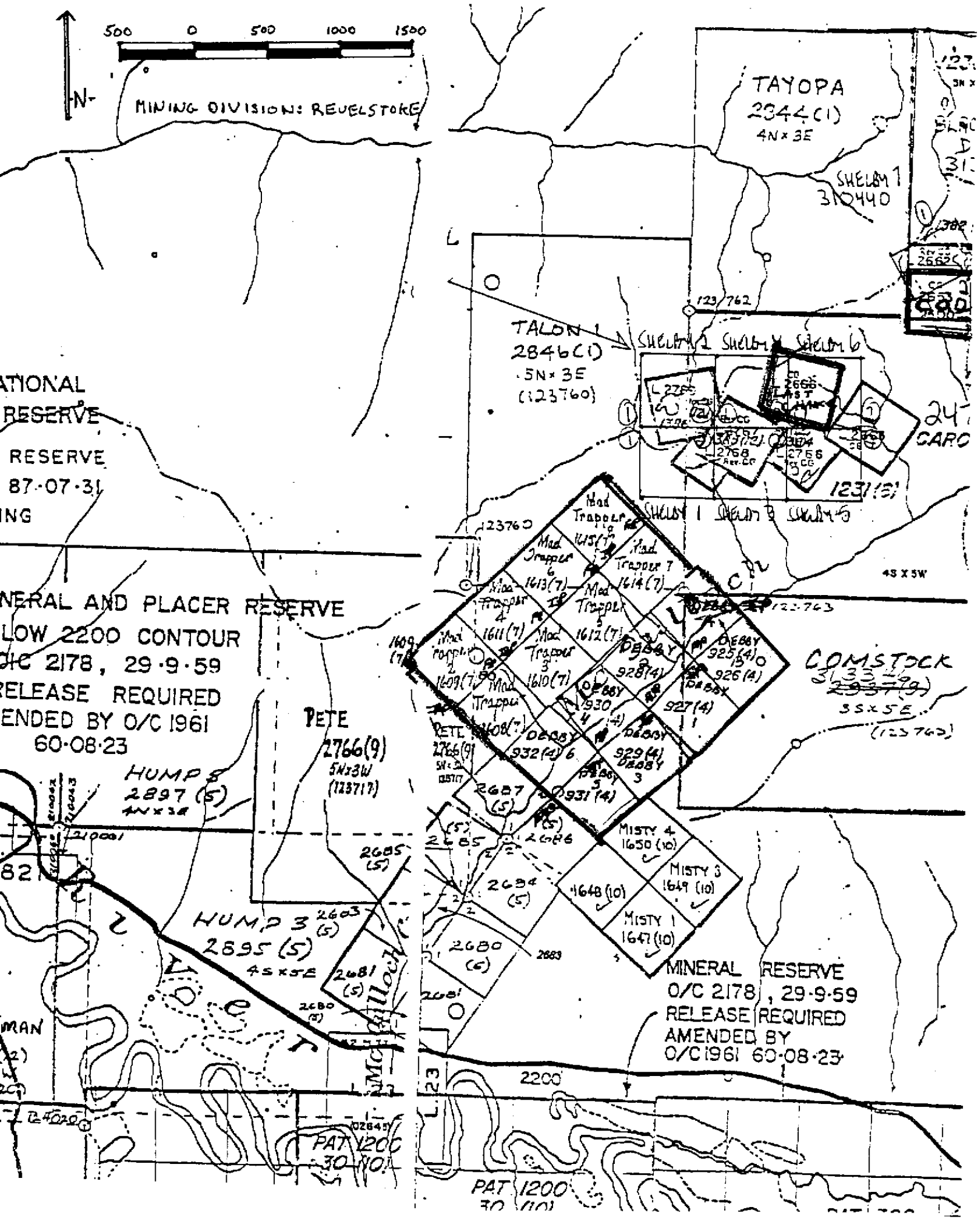
NAME	AREA `(Hectares)	UNITS	RECORDING DATE	RECORD#	EXPIRY DATE
Debby A	`25	`1	April 21, 1980	`#244779	April 21,19
Debby B	`25	`1	April 21, 1980	`#244780	April 21,19
Debby 1	`25	`1	April 21, 1980	`#244781	April 21,19
Debby 2	`25	`1	April 21, 1980	`#244782	April 21,19
Debby 3	`25	`1	April 21, 1980	`#244783	April 21,19
Debby 4	`25	`1	April 21, 1980	`#244784	April 21,19
Debby 5	`25	`1	April 21, 1980	`#244785	April 21,19
Debby 6	`25	`1	April 21, 1980	`#244786	April 21,19
Mad Trapper 1	`25	`1	July 19,1983	`#247914	July 19, 19
Mad Trapper 2	`25	`1	July 19,1983	`#247915	July 19, 19
Mad Trapper 3	`25	`1	July 19,1983	`#247916	July 19, 19
Mad Trapper 4	`25	`1	July 19,1983	`#247917	July 19, 19
Mad Trapper 5	`25	`1	July 19,1983	`#247918	July 19, 19
Mad Trapper 6	`25	`1	July 19,1983	`#247919	July 19, 19
Mad Trapper 7	`25	`1	July 19,1983	`#247920	July 19, 19
Mad Trapper 8	`25	`1	July 19,1983	`#247921	July 19, 19

Mrs. Oakey
Crown Grants

COD	`20.90	`1		L2653	
Last Chance	`20.90	`1		L2666	

Scale
1:31680

082M09W



History of Area

The properties cover an area which placer gold and lode gold were known. In 1865 a small gold rush developed with particular interest in the lower Goldstream area, and four of it's tributaries; namely French, McCulloch, Old Camp and Graham Creeks. French and McCulloch were the most important producers and are still being worked, with 1000 Hills Mining Company working on French Creek, and First General Securities on McCulloch creek, and two other small outfits. Three outfits, with some success.

Lode gold was found in gold bearing quartz veins located in the head water areas of Old Camp, Graham, McCulloch Creeks. The best know claims are the Orphan Boy and Ole Bull (Wheeler 1965) also know as the graham workings. Reinerson 1975)

In 1896 most of the work was conducted on these lode potential claims. (Gunning 1929) Pre - 1900 Assay results from Orphan Boy (Drummond,1983) Au results from grab samples ranged from .5 oz. per/ton to 64 oz. per/ton. Gold at $20.00 per/oz. On Ole Bull claim assay results ranged from .20 to 5 oz. per/ton.

Stanmack Mines Ltd. conducted work on 25 lode claims in Ground Hog Basin(Drummond). The gold bearing quartz veins contained pyrite pyrrhotite and in the weathered portions of

the veins native gold. The veins range from 6 inches to three feet wide, strike 010 to 020 and dip greatly East, intersecting the gently NE dipping Quartzites and schists at a high angle. Locally there is a strong carbonate alteration of the country rocks adjacent to the mineralized quartz veins (Wheeler 1965).

Aurun Mines Ltd. acquired claims in the area in 1980-81 and with a joint venture agreement with Ark Energy, geologic, geochemical, and geophysics was done on the Ground Hog Basin. Joint venture property consisting of approx. 1380.16 hectares.

Summary of Work Done

A four man crew under the direction of the author conducted work on the named properties during a four week field program. The program consisted of some geological mapping, geo-chem soil, stream sediment sampling and grab samples of outcrops and quartz vein structures which where found.
The work was concentrated on the two crown grants the COD and Last Chance, and the sulphide area on the Debby and Mad Trapper claims.
57 samples were sent to be assayed for Au and ICP 30 element. These were collected along a prepared gridline on the Debby and Mad Trapper claims and all visible out cropping and veins on the Last Chance and COD crown grants.

Soil Samples - 27

Rock Samples - 24

Silt Samples - 10

This report embodies the results of a four week program of properties in September and October of 1994. During this period the author and an experienced crew carried out a program of grid preparation and Geo chem and rock sampling.

The 1994 grid covers an area of densely brushed area and second growth trees. The grid cuts across a sulphide bed of pyrite at 30m and 60m intervals which is cut by McCulloch creek running south east. The total lines cut is 1750m. The use of compass and chainman were used, with a known geological point, to map the geological features on the C.O.D. and Last Chance.

Regional Geology

The regional geology has been described by Gunning(1928), Wheeler(1965) and Hoy(1979) dealt with the geology of the Goldstream area with emphasis on economic geology.

Lithology

The area is comprised of meta sedimentary rocks inter layered with meta Volcanic rocks.

The meta sedimentary are composed of quartzite, schists, phyllites, calcareous schists and carbonates.

Meta Volcanic rocks consist of greenstones and chlorite phyllites. These rocks are intruded by granite plutons and are exposed south of the Goldstream River and 12Km North of the properties.

Table II

Table Of Formations: Goldstream River Area

(After Hoy (1979) - Abbreviated)

MESOZOIC OR PALAEOZOIC (?)

7 Discordant Granite Porphyry

6 Semi-concordant Quartz Monzonite

LOWER PALAEOZOIC - HAMILL GROUP (?); MOHICAN FM (?)

5 "Carbonate-phyllite" Division; includes limestone, dolomite, marble, calcareous phyllite, and micaceous phyllite

4 "Metavolcanic-phyllite" Division; composed of greenstone, amphibolite, dark calcareous phyllite and carbonate

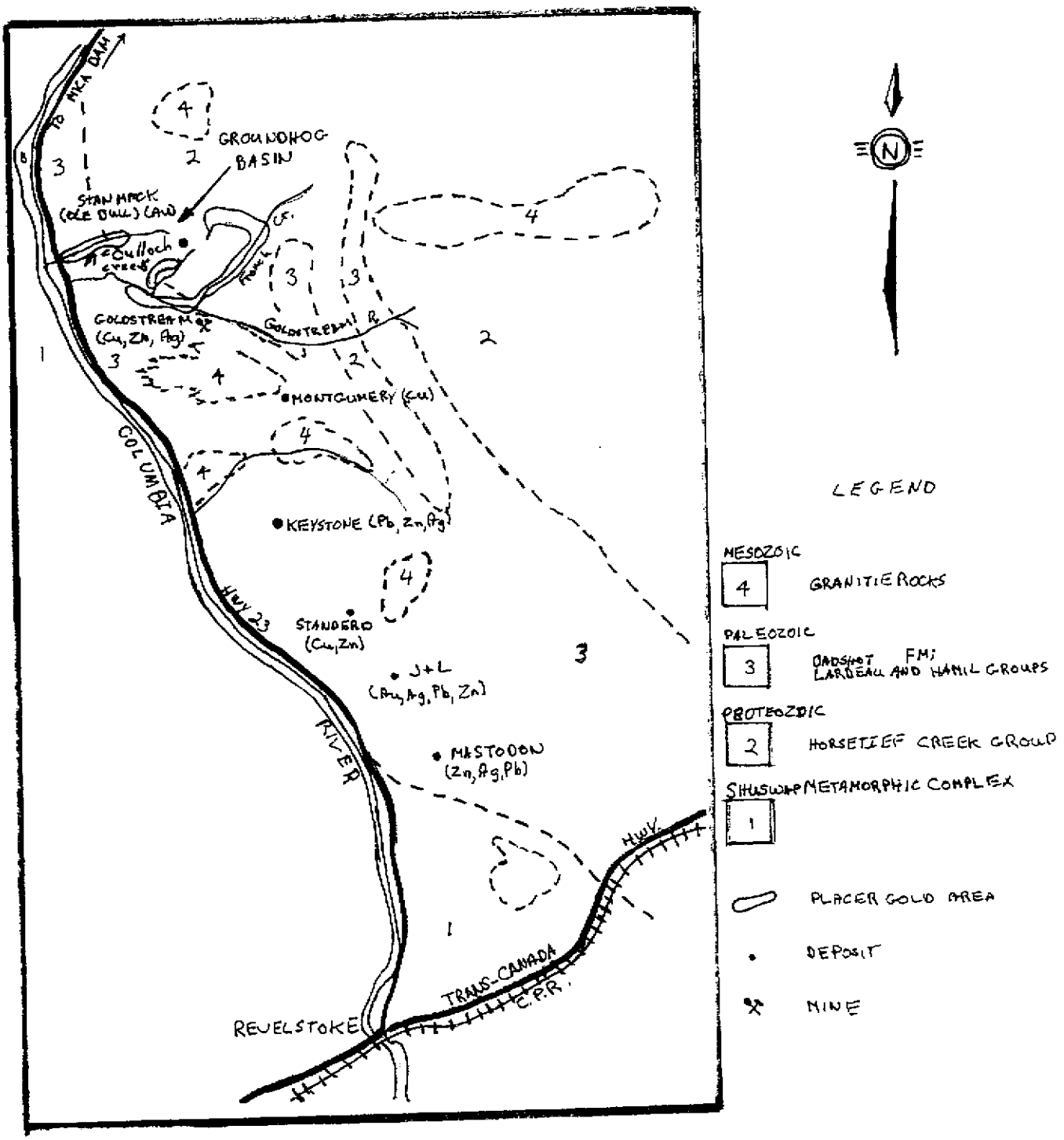
3 "Calc-silicate gneiss" Division; predominantly calcareous rocks

2 Lower "Quartzite-schist" Division; composed largely of pelitic phyllite and quartzite

LOWER PALAEOZOIC - UPPER PROTEROZOIC (?)

HORSETHIEF CREEK GROUP

1 Mainly pelitic and calcareous schists


TO MICA DAM
GROUNDHOG BASIN
STAN MACK (OLE DULL) CAMP
Gulloch creek
COLDSTREAM (Cu, Zn, Ag)
COLDSTREAM R.
MONTGOMERY (Cu)
COLUMBIA
KEYSTONE (Pb, Zn, Ag)
HWY 23
STANDERO (Cu, Zn)
J+L (Au, Ag, Pb, Zn)
RIVER
MASTODON (Zn, Ag, Pb)
HWY
TRANS-CANADA
C.P.R.
REVELSTOKE
N
LEGEND
MESOZOIC
4
GRANITIC ROCKS
PALEOZOIC
3
DADSHOT FM; LARDEAU AND HAMIL GROUPS
PROTEROZOIC
2
HORSETIEF CREEK GROUP
SHUSWAP METAMORPHIC COMPLEX
1
PLACER GOLD AREA
DEPOSIT
MINE
10 5 0 10 20
KILOMETERS

Economic Geology

Most important deposits in area are strata bound massive sulphide copper - zinc deposits which are in metasedimentary and in meta volcanic rocks - examples; Goldstream, Keystone, Standard deposits.

Approximately 8Km to the south is the Goldstream mine which is a strata bound base metal deposit associated with the mafic meta volcanic rocks and is currently being mined by Bethlehem Resources.

Property Geology

Meta Volcanic - Phyllite Division (V3 V5)

Rock types - greenstone, chlorite schist, quartz chlorite schists, dark grey-green phylites, pelitic graphitic schist and minor carbonate.

Quartzite Division (Q4 Q3)

Composed of micaceous, quartzite, inter layered pelitic shist.

Calcareous Phyllite (C5)

Dark grey to black - weathered surfaces are pitted (due to leaching of carbonate) and rusty from oxidation of iron in dolomite or pyrite. Alignment of elongate clear quartz eyes, micaceous minerals and dark carbonaceous material produce a well defined foliation. Grey limestone layers and discontinuous thin chlorite - phyllite layers are common within the unit.

Greenstones are exposed in the North East corner of the COD crown grant. These mafic flows (unit V3) are well exposed in cliffs for 60 meters - these rocks are fine grained, massive and medium to dark green, and samples assayed and ICP contained over .1% Cr, Ni, As. Chlorite schists (unit V5) including dark grey green phyllites which comprises the largest units of the COD area.

(An area of quartzite was found on the southern boundary of the COD. See Map #5) Unit Q4.

A calcareous phyllite unit is found on the Debby 1-8 and Mad Trapper 1-8 in 2 outcroppings

On the Debby 1-8 claims we have (unit V5 & C5) rock types calcareous phyllites and grey green phyllites. Grits overlay the grey spotted phyllites East of the 0 - North line on the prepared grid.

The phyllites have good amount of pyrite which could account for the large percentage of pyrite found in the placer operation (FGS placer) located below the area of the gridlines.

At 0+55ON on the baseline the outcrop is dark grey to black with limonite weathering from the pyrite. This calcareous phyllite has good foliation and overlays a grit unit which over lays a grey green spotted phyllite unit.

No Quartz veins of any size were found even though to the East of the gridline large pieces of float was found in a creek bed. Sample DP2 #2 which assayed at.096 ozs. per/ton

The Last Chance Rock units are similar with the COD crown grant, with the exception of an area where the country rock

is comprised of a bluish grey phyllite - Q3 on Map #6.

Samples from all locations had poor Au results and even #LC 10 which had a great amount of sulphide (pyrite), Au values were >003 ozs. per/ton.

All quartz veins assayed were barren of Au and had only minor Pyrite.

Geo Chemistry

General Statement

27 soil samples ,10 stream sediment and 24 rock samples were collected during the program. All the samples were assayed for Au and a 30 element ICP was done on each one by Loring Laboratories Ltd. Calgary Alberta.

Soil Survey

Soil samples were collected from the B horizon at 60m and 30m intervals along the gridlines. Samples were taken from 3" to 10". Samples were collected with a grub hoe. Soil sample locations and analytical results are given in Table IV.
The results of the soil survey may be summarized as follows

#1 - Gold is not present in any anomalous amounts within the grid system.
#2 - Dispersion of basemetals in soils is insufficient to identify any anomalous areas.

Stream Sediment Samples

A large amount of boulders were seen piled along this small creek - sample #DE3 and #DE5 both had Au values - but could be from an old river bed channel which cuts through this slide area.

Rock - Assay and ICP

24 rock samples were collected, 10 from the Last Chance , 10 from the COD and 5 from the Debby 1-8 all rocks were assayed for gold and a 30 element ICP by Loring Laboratories Ltd. Calgary, Alberta.

Rock samples from Debby 6 and Mad Trapper 1 had negative results in Au. Rock samples from C.O.D. showed very positive results in Au. One large vein can be followed for 150m.

The Last Chance results on Au were very discouraging with no anomalous results at all found.

Geophysical

SP Method was attempted on the Debby 6 claim on the prepared grid, erratic readings were repeated, over the same areas and no conclusive results could be established , so this part of the program was eliminated. Numerous seepage areas over the grid could have resulted in these erratic readings.

The results of 1994 Program may be Summarized as follows:

Property Economic Geology

The area prospected on the crown grant COD is underlain by meta sedimentary and by mafic meta volcanic rocks. Metamorphosed mafic volcanic rocks are exposed in the North East part of the unit. Rocks of volcanic composition are common. Through out property chlorite schist to chlorite phyllite and chlorite quartzite and associated graphite and calcareous metasediments.

Gold bearing quartz veins strike 0100 to 020. The Au bearing veins are exposed in old trenches and have not been traced fully on the C.O.D.

Based on 24 rock samples , gold values in quartz vein and associated contacts were not anomalous except on the C.O.D. The best results came from a sample from an old trench following a bull quartz vein, where a grab sample (C.O.D. #10) assayed 1.896ozs. per/ton found on the COD crown grant. This vein was traced 150m and sample # C.O.D. 8 was taken from the southern end of the vein, .27. The gold is associated with massive pyrite.

Property Geo Chemistry Results

The gold content found was not anomalous in the soil samples taken from the Debby 6 and Mad Trapper 1 claims, only one sample kicked which the sample was taken above an old river channel.

Two stream sediment samples taken kicked anomalous and were taken from a main drainage creek immediately to the East of the grid area on the Debby 6 and Mad Trapper 1 claims. DE#3 and DE#5 samples, .264 and .032 ozs. per/ton respectively.

Conclusions and Recommendations

Conclusions

The anomalous values of gold in the bull quartz on the crown grant, C.O.D. claim shows this property has considerable potential for a vein and massive sulphide deposit and warrants some work.

The Last Chance samples of quartz which lacked the sulphides the C.O.D. had, were barren of Au. Some geo chem could possibly help discover an anomalous area within the boundaries of the claim.

The Debby claims and Mad Trapper showed no gold even though there are many feet thick areas of pyrite bearing till on top which is placer gold, which was found to be very sharp and fresh. The only Au found in the area was on a creek which drains Easterly into McCulloch creek and is just on the edge of the grid, in a slide area which I believe the old river bed once flowed. This would account for the high assay in the stream sediments sample from the creek.

Recommendations

Further stream sediment samples should be taken towards the headwaters of the small drainage creek which kicked Au. Further geo chem could be taken further East on a contour sampling program to cover the rest of the Debby and Mad Trapper claims. No further work would be recommended on the area which was sampled in the 1994 Program.

The COD should have a small drilling program to discover if those Au values which were found extend to depth.

Rock and Stream Sediment Samples
McCulloch Creek

Sample Identifier	Descriptive notes	Au Values oz/per/t
L.C. # 1	Quartz vein 2ft width minor sulphide - limonite staining	<0.002
L.C. # 2	Quartz vein, 2ft. 80m south along L.C. #1 vein. Limonite staining on visible sulphides	<0.002
L.C. # 3	6" Quartz vein - no visible sulphides	<0.002
L.C. # 4	12" Quartz vein - no visible sulphides	<0.002
L.C. # 5	2ft Quartz vein - well developed pyrite cubes	<0.002
L.C. # 6	Stream sediment sample	<0.002
L.C. #7	Stream sediment sample	<0.002
L.C. # 8	2ft bull quartz, strike 014 minor sulphides - some limonite staining	<0.002
L.C. # 9	12" quartz vein - minor sulphides, some limonite staning	<0.002
L.C. # 10	float, 20% sulphides	0.003

Rock and Stream Sediment Samples
McCulloch Creek

Sample Identifier	Descriptive notes	Au Values oz/per/t
C.O.D. #1	NE area C.O.D. crown grant greenstone country rock V3	<0.002
C.O.D. #2	Contact - greenstone -limy phyllite NE area C.O.D.	<0.002
C.O.D. #3	6" width quartz vein 320NW very little sulphides	<0.002
C.O.D. #4	spotted phyllites contact quartz 4" vein - strike undetermined	<0.002
C.O.D. #5	2ft quartz vein - strike undetermined. contact grey phylite	<0.002
C.O.D. #6	4" quartz vein - contact grey phyllite small amount sulphidies	<0.002
C.O.D. #7	4ft quartz vein - very little sulphide contact dark grey phyllite- spotted dog apperance	0.006
C.O.D. #8	quartz vein 4" to 6" width lots of sulphides strike 010	0.270
C.O.D. #9	4" vein running parallel with C.O.D. #8 sample - 10% sulphide	0.085
C.O.D. #10	continuation of C.O.D. #8 150m north - bull quartz- massive	1.896

Rock and Stream Sediment Samples
McCulloch Creek

Sample Identifier	Descriptive notes	Au Values oz/per/t
D2F# 1	0+240N Quartz sericite	<0.002
D2F# 2	Float Massive sulphides	0.096
D2F# 3	Heavily folded spotted phyllite visible sulphides and maraposite	<0.002
D2F# 4	0+630N Calcareous Phyllite	<0.002
DE# 1	Red layer 2m depth possible old creek channel	<0.002
DE# 2	.6m depth slide area, washed gravel, possible old creek channel	0.004
DE# 3	Stream sediment sample small creek east of gridline	0.264 ← ! b
DE# 4	soil sample -red 510N+330E	<0.002
DE# 5	Stream sediment sample- small creek east of gridline	0.032 ←
DE# 6	Ruby red soil layer DEBBY 7	<0.002
DE#7	.9 depth gravel on clay seam possible old river channel	<0.002
Sulf# 1	taken 10ft. in depth below slide area. Material Grey sulphide material	0.002

2 Bulk samples of grey material

B1	4ft below #2 layer	0.002
B2	Top layer	0.222

To: ST. PATRICKS MINING,
Box 3147,
Revelstoke, B.C. V0E 2S0

ATTN: James Patrick

File No. 36978
Date November 3, 1994
Samples Rock/Soil

Certificate of Assay
LORING LABORATORIES LTD.

"Assay Analysis"

SAMPLE NO.		OZ./TON GOLD
LC #	1	<0.002
	2	<0.002
	3	<0.002
	4	<0.002
	5	<0.002
	6	<0.002
	7	<0.002
	8	<0.002
	9	<0.002
	10	0.003
COD #	1	<0.002
	2	<0.002
	3	<0.002
	4	<0.002
	5	<0.002
	6	<0.002
	7	0.006
	8	0.270
	9	0.085
	10	1.896

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month unless specific arrangements are made in advance.

Assayer

To: ST. PATRICKS MINING,
Box 3147,
Revelstoke, B.C. V0E 2S0

ATTN: James Patrick

File No. 36978
Date November 3, 1994
Samples Rock/Soil

Certificate of Assay
LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD
D2P # 1	<0.002
2	0.096
3	<0.002
4	<0.002
0 + 240N	<0.002
0 + 330N	<0.002
330N + 60E	<0.002
330N + 120E	<0.002
0 + 420N	<0.002
420N + 60E	<0.002
420N + 120E	<0.002
420N + 180E	<0.002
420N + 240E	<0.002
0 + 510N	<0.002
510N + 60E	<0.002
510N + 120E	<0.002
510N + 180E	<0.002
510N + 240E	<0.002
510N + 300E	<0.002
510N + 330E	0.013
0 + 600N	<0.002
600N + 60E	<0.002

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month unless specific arrangements are made in advance.

Assayer

To: ST. PATRICKS MINING,
Box 3147,
Revelstoke, B.C. V0E 2S0

ATTN: James Patrick

File No. 36978
Date November 3, 1994
Samples Rock/Soil

Certificate of Assay
LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD
600N + 120E	<0.002
600N + 180E	<0.002
600N + 210E	<0.002
600N + 240E	<0.002
600N + 270E	<0.002
600N + 300E	<0.002
600N + 330E	<0.002
600N + 360E	<0.002
DE # 1	<0.002
2	0.004
3	0.264
4	<0.002
5	0.032
6	<0.002
7	<0.002

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.

Assayer

To: ST. PATRICKS MINING,
Box 3147,
Revelstoke, B.C. V0E 2S0

ATTN: James Patrick

File No. 36843
Date September 13, 1994
Samples Rock

Certificate of Assay
LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD
Sulf 1 on the stock pile	

"Assay Analysis"

# 1 Sulf	0.002

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month unless specific arrangements are made in advance.

Assayer

Calcite Shack hole Sample

GEOCHEMICAL ANALYSIS CERTIFICATE

Loring Laboratories Ltd. PROJECT 36843 File # 94-3009

629 Beaverdam Road N.E., Calgary AB T2K 4W7

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
#1 SULF	<1	30	20	54	<.1	87	19	591	4.06	28	<5	<2	5	168	<.2	<2	<2	24	3.94	.034	8	161	1.99	34	.01	<2	1.31	.01	.16	2

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: PULP

To: ST. PATRICKS MINING,
Box 3147,
Revelstoke, B.C. V0E 2S0

ATTN: James Patrick

File No. 36666
Date July 7, 1994
Samples Bulk

Certificate of Assay
LORING LABORATORIES LTD.

SAMPLE NO.	OZ./TON GOLD
"Assay Analysis"	
#B1	0.002
#B2	0.222

I Hereby Certify that the above results are those assays made by me upon the herein described samples....

Rejects retained one month.
Pulps retained one month
unless specific arrangements
are made in advance.

Assayer

Loring Laboratories Ltd. # 36978

ELEMENT	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	B	Al	Na	K	W
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
D2P #1	1	19	13	58	0.1	88	25	638	4.43	17	6	< 2	4	285	0.6	< 2	< 2	12	5.31	0.074	7	130	2.47	32	< .01	< 2	0.6	0.01	0.25	< 1
D2P #2	3	39	230	19	1.1	93	455	67	15.01	51	< 5	< 2	3	4	< .2	< 2	9	< 2	0.05	0.001	< 2	132	0.01	3	< .01	< 2	0.1	< .01	0.01	1
D2P #3	1	1	8	141	< .1	465	31	917	8.53	6	< 5	< 2	8	374	1.1	< 2	2	46	5.96	0.058	5	230	6.83	41	< .01	< 2	3.14	< .01	0.15	< 1
D2P #4	< 1	13	9	30	0.1	41	16	301	3.1	8	15	< 2	11	333	0.4	< 2	< 2	4	5.74	0.035	16	59	2.72	46	< .01	< 2	0.46	0.01	0.33	1
DE #1	1	56	21	69	< .1	69	18	901	11.97	226	< 5	< 2	6	55	1	< 2	8	7	2.78	0.045	9	22	0.41	11	0.01	< 2	0.6	< .01	0.01	4
DE #2	1	66	75	179	0.7	102	29	1213	4.95	25	< 5	< 2	9	20	0.7	< 2	< 2	24	0.25	0.073	19	78	0.9	30	0.01	< 2	1.88	< .01	0.06	1
DE #3	2	29	29	90	1.4	83	20	320	5.07	13	< 5	10	8	23	0.4	< 2	< 2	29	0.14	0.038	27	214	1.35	58	0.01	< 2	2.08	0.04	0.28	18
DE #4	1	33	23	33	0.3	25	9	473	2.48	6	< 5	< 2	< 2	4	< .2	< 2	< 2	18	0.05	0.059	17	25	0.18	21	0.08	< 2	3.01	0.01	0.06	1
DE #5	2	22	16	80	0.2	80	20	317	5.08	10	< 5	< 2	8	20	0.4	< 2	< 2	31	0.15	0.033	20	168	1.32	48	0.01	< 2	2.02	0.03	0.26	14
DE #6	1	19	25	76	0.2	59	17	516	4.53	7	< 5	< 2	5	13	0.5	< 2	2	23	0.12	0.042	23	228	0.7	44	0.02	< 2	1.6	0.02	0.18	3
DE #7	2	32	16	75	0.1	76	17	540	4.21	8	< 5	< 2	10	17	0.2	< 2	< 2	20	0.14	0.05	27	183	0.86	49	0.01	< 2	1.74	0.03	0.23	1
LC #1	5	5	11	23	0.1	7	2	291	1.65	6	< 5	< 2	< 2	2	< .2	2	< 2	3	0.03	0.009	< 2	249	0.02	5	< .01	< 2	0.05	< .01	0.02	1
LC #2	1	4	4	4	0.1	5	2	50	0.91	7	< 5	< 2	< 2	1	< .2	< 2	< 2	3	0.01	0.004	< 2	253	< .01	4	< .01	< 2	0.03	< .01	0.02	< 1
LC #3	< 1	< 1	11	77	< .1	54	18	1409	13.62	< 2	< 5	< 2	10	145	1.5	< 2	12	2	15.99	0.002	6	6	6.72	4	< .01	< 2	0.03	0.01	0.01	< 1
LC #4	1	10	5	10	< .1	9	2	232	1.01	2	5	< 2	< 2	2	< .2	< 2	< 2	2	0.19	0.001	< 2	255	0.02	3	< .01	< 2	0.01	< .01	0.01	< 1
LC #5	4	6	7	21	< .1	12	4	154	2.79	11	< 5	< 2	< 2	4	0.2	< 2	< 2	6	0.22	< .001	< 2	258	0.11	3	< .01	< 2	0.31	< .01	< .01	< 1
LC #6	< 1	20	13	68	< .1	53	12	297	4.16	4	< 5	< 2	13	348	0.7	< 2	< 2	12	10.17	0.021	29	51	0.97	38	< .01	< 2	1.62	0.08	0.21	< 1
LC #7	2	22	18	61	< .1	52	13	434	3.89	3	< 5	< 2	11	212	0.4	< 2	< 2	8	6.61	0.045	27	105	0.23	39	< .01	< 2	0.77	0.06	0.22	2
LC #8	2	23	9	55	< .1	45	12	1059	5.32	< 2	< 5	< 2	7	40	0.4	< 2	2	11	0.27	0.026	23	232	0.21	37	< .01	< 2	0.92	0.04	0.2	< 1
LC #9	4	14	6	7	0.1	10	3	163	7.13	6	< 5	< 2	2	5	0.2	< 2	< 2	3	0.04	0.006	< 2	242	< .01	6	< .01	< 2	0.04	< .01	0.01	4
LC #10	< 1	167	18	47	0.1	266	10	4625	12.39	< 2	16	< 2	26	220	1.8	< 2	16	< 2	9.89	0.02	6	40	6.53	4	< .01	< 2	0.22	0.02	0.02	13
COD #1	1	95	9	75	0.2	139	36	796	6.47	< 2	< 5	< 2	2	234	0.8	< 2	< 2	162	5.04	0.054	6	212	5.93	8	0.02	< 2	4.1	0.02	< .01	< 1
COD #2	2	20	36	82	0.2	1715	89	1239	5.32	1047	< 5	< 2	6	239	1	< 2	3	84	7.4	0.027	6	1141	10.72	21	0.06	< 2	2.21	0.01	0.88	1
COD #3	1	9	7	7	< .1	17	7	494	1.09	6	< 5	< 2	< 2	3	< .2	< 2	< 2	4	0.07	0.001	< 2	276	0.03	8	< .01	< 2	0.07	< .01	0.05	< 1
COD #4	3	3	3	13	< .1	184	16	726	1.89	156	5	< 2	< 2	198	< .2	< 2	< 2	12	4.59	0.002	< 2	315	4.13	3	< .01	< 2	0.3	< .01	0.01	< 1
COD #5	1	32	4	3	< .1	17	4	71	1.39	4	< 5	< 2	< 2	3	< .2	< 2	< 2	4	0.05	0.001	< 2	310	0.02	3	< .01	< 2	0.03	0.01	0.02	< 1
COD #6	< 1	< 1	7	67	< .1	56	16	2601	13.82	< 2	6	< 2	10	321	1.9	< 2	10	2	16.99	0.004	4	8	6.27	3	< .01	< 2	0.04	< .01	0.01	< 1
COD #7	1	29	2	6	< .1	7	3	75	3.29	2	< 5	< 2	2	2	0.2	< 2	< 2	2	0.11	< .001	< 2	196	0.01	2	< .01	< 2	< .01	< .01	< .01	< 1
COD #8	1	114	7	12	0.8	59	18	99	7.9	6	< 5	3	2	1	0.2	< 2	3	< 2	0.01	< .001	< 2	180	0.01	2	< .01	< 2	0.01	< .01	< .01	< 1
COD #9	4	193	17	13	0.6	217	96	76	13.04	19	< 5	< 2	3	5	< .2	< 2	16	2	0.18	0.001	< 2	168	0.06	5	< .01	< 2	0.01	< .01	0.01	< 1
COD #10	1	163	11	9	13.2	281	101	40	17.7	25	< 5	73	2	3	< .2	< 2	10	2	0.01	< .001	< 2	156	< .01	7	< .01	3	0.07	< .01	0.04	< 1
0+240N	1	26	12	43	0.3	45	10	340	2.19	15	< 5	< 2	< 2	5	< .2	< 2	< 2	33	0.03	0.028	16	32	0.12	29	0.02	2	0.39	< .01	0.03	1
0+330N	2	96	40	61	0.6	80	14	373	4.99	25	< 5	< 2	< 2	5	< .2	< 2	< 2	36	0.05	0.177	10	113	0.35	18	0.02	2	0.94	< .01	0.04	< 1

ELEMENT	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	B	Al	Na	K	W
SAMPLES	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm
0+420N	2	41	38	89	0.2	74	23	560	4.94	26	< 5	< 2	4	14	0.2	< 2	< 2	37	0.17	0.052	10	89	0.83	60	0.03	< 2	1.73	0.01	0.05	< 1
0+510N	2	54	59	89	0.4	66	23	713	3.71	23	< 5	< 2	3	35	0.3	< 2	< 2	32	0.43	0.082	5	59	0.3	73	0.1	2	3.62	0.02	0.05	< 1
0+600N	2	91	39	152	0.3	135	28	1145	5.19	65	< 5	< 2	5	42	0.3	< 2	< 2	50	0.52	0.087	7	133	0.9	154	0.03	< 2	2.53	0.01	0.11	< 1
330N+60E	2	57	25	81	0.1	33	13	3094	3.44	14	6	< 2	< 2	52	< .2	< 2	< 2	40	0.55	0.14	5	42	0.17	84	0.06	2	0.99	0.01	0.05	< 1
330N+120E	1	40	9	28	0.4	14	4	171	1.03	5	< 5	< 2	< 2	4	0.3	< 2	< 2	28	0.03	0.022	9	25	0.1	28	0.02	2	0.47	0.01	0.03	< 1
420N+60E	2	59	44	105	0.2	138	28	358	5.49	21	< 5	< 2	9	12	< .2	< 2	< 2	42	0.14	0.053	12	153	1.54	58	0.02	3	2.28	< .01	0.04	< 1
420N+120E	1	63	31	258	0.3	84	21	3369	4.22	16	< 5	< 2	< 2	61	1	< 2	< 2	41	0.78	0.122	6	102	0.47	308	0.07	< 2	1.31	0.01	0.05	< 1
420N+180E	2	34	20	51	0.5	28	9	173	3.5	12	< 5	< 2	3	12	< .2	< 2	2	30	0.14	0.063	8	35	0.18	55	0.06	2	1.91	0.01	0.1	< 1
420N+240E	2	58	25	61	0.5	43	15	3186	2.69	10	24	< 2	< 2	138	0.3	< 2	< 2	20	1.53	0.195	9	36	0.24	89	0.06	2	4.28	0.01	0.03	< 1
510N+60E	2	51	41	75	0.4	118	25	894	5.47	26	< 5	< 2	< 2	20	0.3	< 2	2	89	0.24	0.079	10	262	1.84	116	0.1	< 2	2.16	< .01	0.05	< 1
510N+120E	1	59	36	46	0.2	55	9	239	3.88	12	< 5	< 2	< 2	13	< .2	< 2	< 2	39	0.1	0.12	9	47	0.14	24	0.03	2	0.67	0.01	0.04	< 1
510N+180E	1	41	30	56	1.1	35	15	1911	3.51	16	< 5	< 2	< 2	15	0.2	< 2	< 2	27	0.18	0.108	12	31	0.16	51	0.06	< 2	2.66	0.01	0.03	< 1
510N+240E	2	82	25	65	0.5	87	17	770	3.96	23	< 5	< 2	< 2	32	0.4	2	< 2	37	0.35	0.148	9	97	0.74	52	0.01	2	1.2	< .01	0.04	1
510N+300E	2	56	26	73	0.2	129	19	446	5.16	43	< 5	< 2	< 2	23	< .2	< 2	< 2	41	0.17	0.067	11	119	0.92	38	0.01	< 2	1.29	< .01	0.03	1
510N+330E	1	62	33	105	0.3	103	34	771	5.63	19	< 5	< 2	3	114	0.7	< 2	< 2	19	2.52	0.064	4	54	1.25	14	0.01	< 2	1.11	< .01	0.03	3
600N+60E	3	83	62	85	0.6	101	37	813	5.66	32	< 5	< 2	8	20	0.3	< 2	< 2	25	0.18	0.082	11	86	0.9	36	0.02	< 2	2.22	< .01	0.04	< 1
600N+120E	3	45	67	54	0.5	81	24	354	5.95	22	< 5	< 2	7	78	0.2	< 2	3	26	0.58	0.076	11	60	0.41	42	0.02	< 2	2.91	0.01	0.02	1
600N+180E	2	83	19	35	0.2	35	7	210	2.46	9	< 5	< 2	< 2	7	< .2	< 2	< 2	34	0.04	0.085	7	39	0.08	14	0.02	< 2	0.45	0.01	0.02	1
600N+210E	2	62	36	61	0.2	170	36	950	5.57	33	< 5	< 2	5	19	< .2	< 2	< 2	39	0.16	0.079	6	178	1.45	37	0.01	< 2	1.91	< .01	0.02	< 1
600N+240E	3	67	46	63	0.1	126	22	651	6.25	36	< 5	< 2	5	11	0.2	< 2	< 2	37	0.08	0.064	13	114	0.86	16	0.01	< 2	1.51	< .01	0.03	1
600N+270E	2	64	71	91	0.3	70	20	932	5.31	17	< 5	< 2	2	25	0.2	< 2	< 2	22	0.29	0.075	13	45	0.32	45	0.02	< 2	1.33	< .01	0.03	1
600N+300E	1	62	30	68	0.2	71	19	772	3.73	11	< 5	< 2	< 2	16	< .2	< 2	< 2	20	0.2	0.06	12	54	0.42	20	0.02	< 2	1.27	< .01	0.02	2
600N+330E	1	56	72	72	0.2	83	21	861	4.43	15	6	< 2	4	21	0.2	< 2	< 2	23	0.28	0.071	16	69	0.84	24	0.02	< 2	1.51	< .01	0.02	3
600N+360E	1	61	31	67	0.3	90	27	769	4.42	10	< 5	< 2	6	13	0.2	< 2	< 2	15	0.19	0.064	14	42	0.4	12	0.01	< 2	0.84	< .01	0.02	5

LAST CHANCE

-36

105° #8
Qz VEIN
2ft

#9
Q3 Qz VEIN

LC #4
014°
Q3 / Qz VEIN

LC #6
Qz VEIN

LC #1
010°
/ V5
2ft. Qz VEIN

LC #3
Qz VEIN
/ V5
015°

LC #7
X V5
Qz VEIN

LC #10
/
003

V5 /
Qz VEIN
LC #2

LC #5
/
Qz VEIN
2ft

1cm = 20m

TRUE NORTH

LEGEND

Carbonate - Phyllite Division (C)

- C5 Calcareous Phyllite
- C2 Dolomife Limestone

Metavolcanic - Phyllite Division (V)

- V5 Light green quartz - chlorite schist
- V4 Dark Grey-green Phyllite Includes Unit V4
- V3 Greenstone - Massive to Phyllitic
- V2 Dolomite / Limestone
- V1 Pelitic schist Locally Graphitic

Quartzite schist Division (Q)

- Q4 Quattzite (quartz schist)
- Q2 Quartz Sericite Phyllite

SYMBOLS

- Qz/ Quartz Vein Strike
- LS Samples

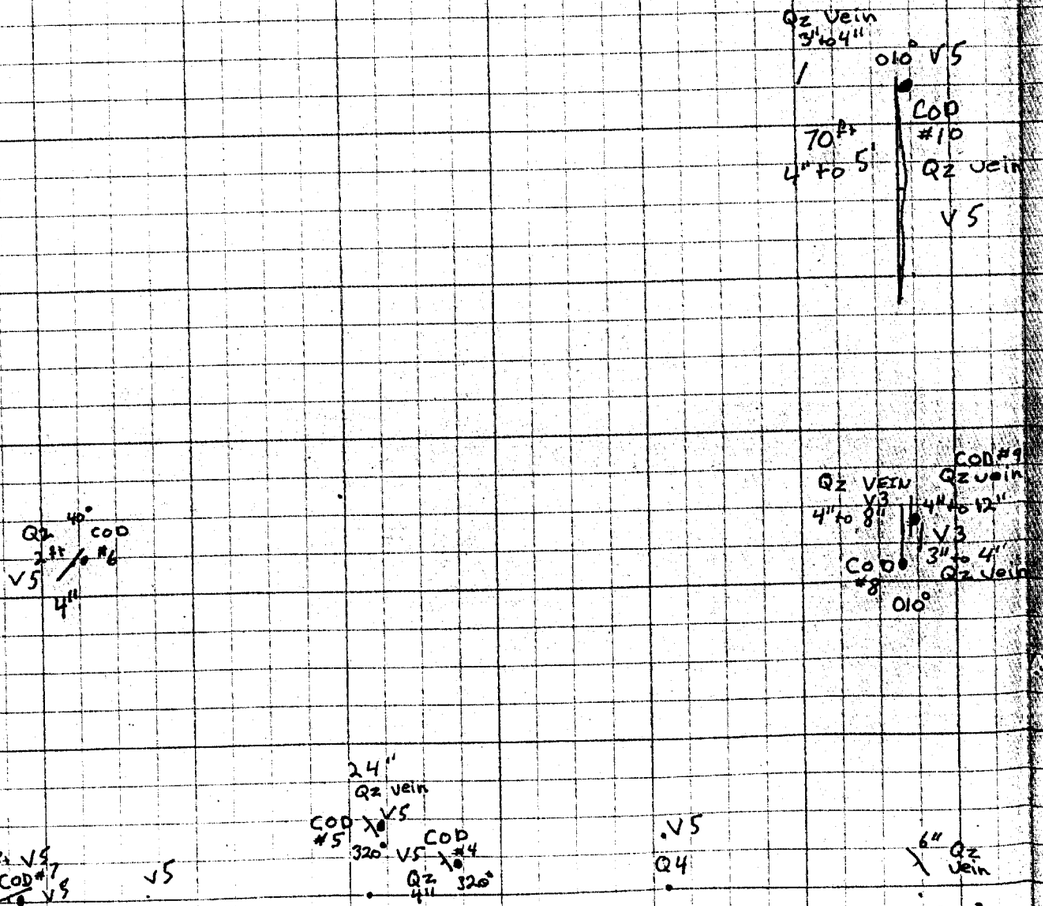
C.O.D.

1cm = 20m

40 30 20 0 20 40

METERS

TRUE NORTH



LEGEND

Carbonate - Phyllite Division (C)

- C5 Calcareous Phyllite
- C2 Dolomite Limestone

Metavolcanic - Phyllite Division (V)

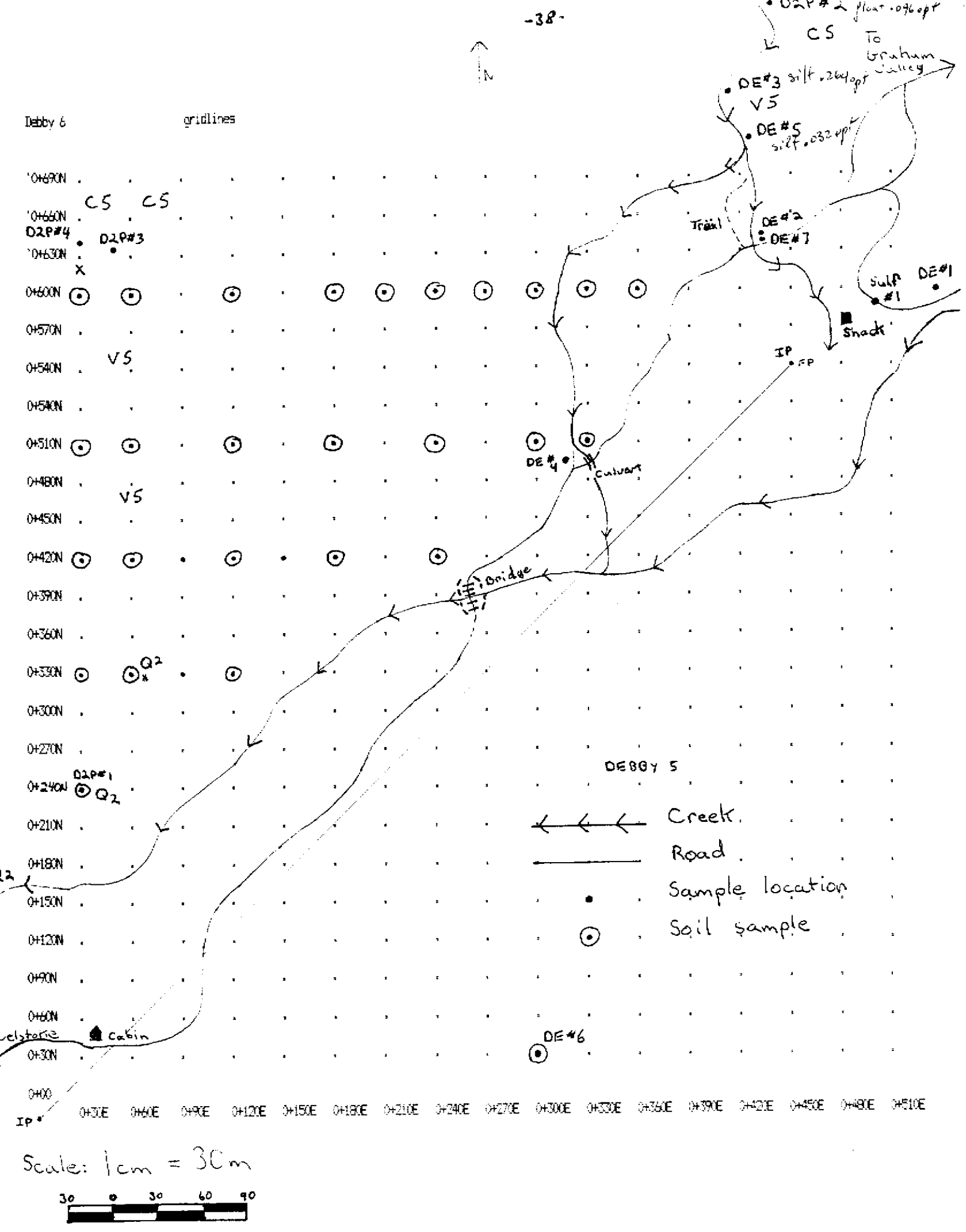
- V5 Light green quartz - chlorite schist
- V4 Dark Grey-green Phyllite, Includes Unit V4
- V3 Greenstone - Massive to Phyllitic
- V2 Dolomite / Limestone
- V1 Pelitic schist Locally Graphitic

Quartzite schist Division (Q)

- Q4 Quartzite (quartz schist)
- Q2 Quartz Sericite Phyllite

SYMBOLS

- Qz / Quartz Vein Strike
- C.O.D #• Samples


Debby 6
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0+420N
0+390N
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0+240N
0+210N
0+180N
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0+210E
0+240E
0+270E
0+300E
0+330E
0+360E
0+390E
0+420E
0+450E
0+480E
0+510E
C5
C5
D2P#4
D2P#3
V5
V5
Q2
D2P#1
Q2
C5
To Graham Valley
DE#3 silt .264 opt
V5
DE#5 silt .032 opt
Trail
DE#2
DE#7
Sulf #1
DE#1
Shack
IP
FP
DE#4
Culvert
Bridge
DE#6
Cabin
IP
DEBBY 5
Creek
Road
Sample location
Soil sample
Scale: 1cm = 30m
30 0 30 60 90

LEGEND

Carbonate - Phyllite Division (C)

C5 Calcareous Phyllite

C2 Dolomite Limestone

Metavolcanic - Phyllite Division (V)

V5 Light green quartz - chlorite schist

Dark grey - green Phyllite Includes Unit V4

V3 Greenstone - Massive to Phyllitic

V2 Dolomite / Limestone

V1 Pelitic schist Locally Graphitic

Quartzite schist Division (Q)

Q4 Quartzite (quartz schist)

Q2 Quartz Sericite Phyllite

SYMBOLS

#• Samples

Notice Of Work

NAME OF PROPERTY Debby 1 - 8
NAME OF CLAIMS - Debby 1, Debby 2, Debby 3, Debby 4, Debby 5, Debby 6, Debby 7, Debby 8. 8 Units

	answers	
Location	No	Mining Div. Revelstoke
Private	No	NTS 082M09W
Name	N/A	Latitude 51 42′
		Long. 118 28′

Access Route:

HWY23 North of Revelstoke B.C. 105km East 18.5km on McCulloch creek road.

Operator- James Patrick Tele - 837-5887
Company Fax - 837-5050
contact- James Patrick
Address - Box 3147 City - Revelstoke
Province- B.C. Date - July 15,1994
Postal - V0E 2S0

Signature of Agent-operator _____

Owner - Robert Westerburg Tele - 837-5887
Address - Box 2718 City - Revelstoke
Province- B.C. Date - July 15,1994
Postal - V0E 2S0

Signature of Owner or Letter - Letter

Manager - James Patrick - 837-5887

Duration of work - Aug.1,1994 thru Sept.30,1994
Exploration Work -

Geochemical - every 20m
Prospecting - 2sq. km.
Line cutting - 15km
Camp Site - Ole the Bear Mining Camp

Water Supply - N/A
Waste Water Treatment - N/A
# of Workers - 3
Equipment List - N/A
First Aid - N/A

Surface Disturbance - N/A

Present state of land - Mining Type of Veg. - Alders, devil clubs, some patches of second growth.

Access Roads - Present use, mining, logging / Fair condition

Old workings - N/A

Reclamation - N/A

Uranium-Thorin - N/A

REFERENCES

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Chapman, J., Dagenais, J., and Philip, D., Sept 1981, Exploration Report, Groundhog Basin Project, Assessment Report.

Gunning, H. C., 1928, Geology and Mineral Deposits of Big Bend Map-Area, British Columbia.

Hoy, T., 1979, Geology of the Goldstream Area, B. C. Ministry of Energy, Mines and petroleum Resources, Bulletin 71.

Wheeler, J. O., 1965, Geology of the Big Bend Map-Area, British Columbia,G.S.C., Paper 64-32

Authors' Certification

James C.T. Patrick has been prospecting for the last 15 years. Attended the Mineral Exploration for Prospectors Program, held at Malaspina College in 1985.

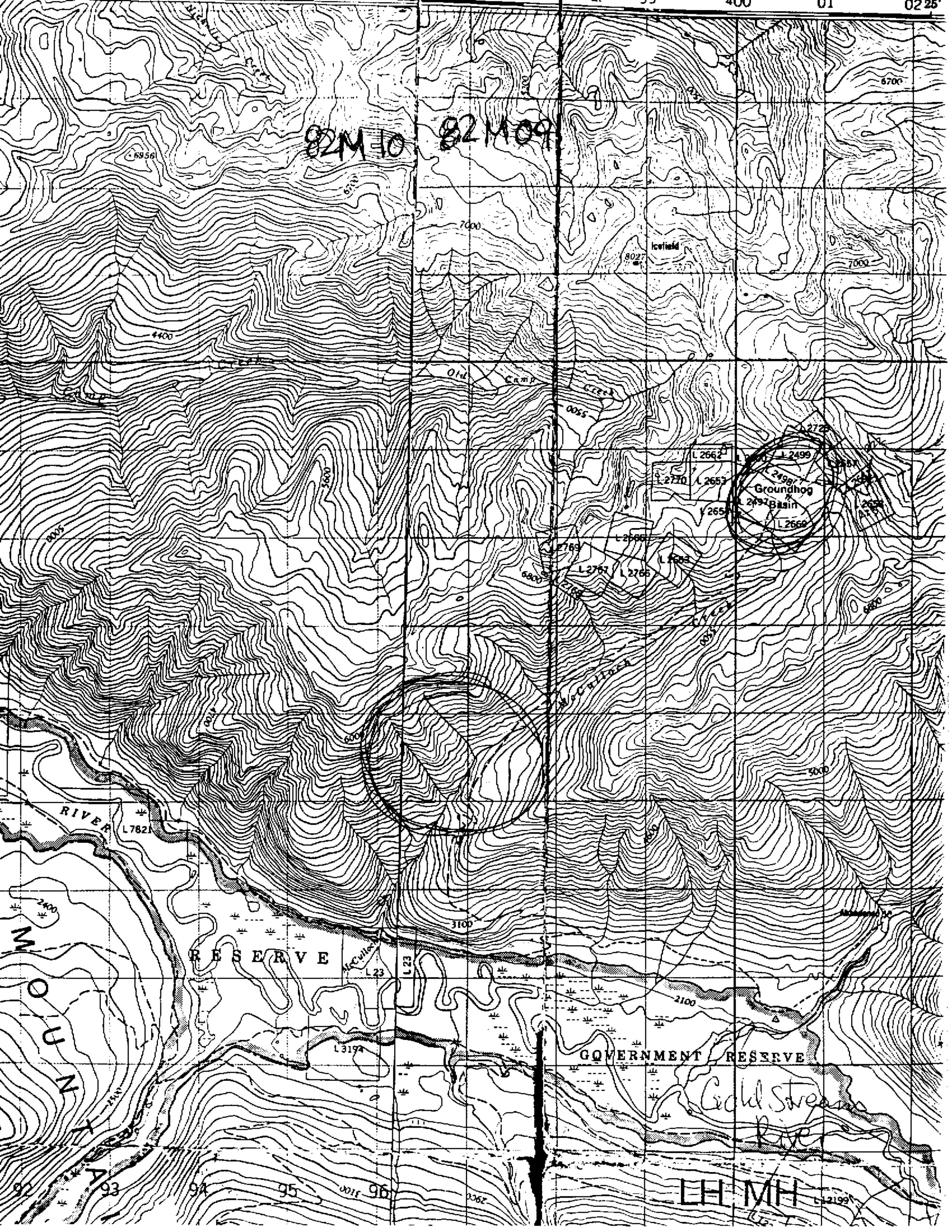
I have practised my profession as a prospector continuously for the past 15 years for such companies as:

Cassiar Coal Company Ltd.	Vancouver
Marum Resources	Calgary
Fargo Resources	Vancouver
Equinox Resources	Vancouver
St. Patrick Mining	Revelstoke

References:

Danny Hora - Industrial Minerals - Victoria

James Patrick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82M09
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6700
7000
Icefield
8027
4400
Creek
Camp
Old Camp Creek
L 2662
L 2499
L 2770
L 2653
Groundhog Basin
L 2497
L 2654
L 2669
L 2666
L 2757
L 2766
L 2663
6800
McCulloch Creek
6000
5000
RIVER
L 7821
2400
3100
RESERVE
L 23
2100
L 3194
GOVERNMENT RESERVE
Goldstream River
92
93
94
95
96
LH MH