

9/86

EXPLORATION PROGRAM REPORT

ON THE

CND MINERAL CLAIMS

FORT STEELE MINING DIVISION  
GOLD RUN LAKE, PERRY CREEK  
CRANBROOK AREA , B.C.

FILMED

LATITUDE : 49°22' north  
LONGITUDE : 116°10' west  
N.T.S. : 82 F 8 east

OWNER/OPERATOR

FORT STEELE GRUBSTAKING SYNDICATE  
# 1016-470 GRANVILLE STREET  
VANCOUVER, B.C.

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,284

DECEMBER 20, 1985  
Vancouver, B.C.

WRITTEN BY  
L.C. BREWER

Rec'd. Vancouver 24 Dec 85.

## SUMMARY

This report describes work undertaken during August, 1985, on a group of 5 modified grid claims, the CND group. The property covers the upper reaches of Perry, Hellroaring and the North Moyie creeks. The claims are of interest as potentially hosting economic gold mineralization in porphyritic sills and/or dykes containing gold mineralization commonly known as " Miner's porphyry ". Work on the property consisted of soil sampling for geochemical analysis, rock sampling, and general prospecting.

This program provided sufficiently positive results, several related gold anomalies, that a further stage of exploration, to the value of \$ 25,000.00, is recommended.

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## INTRODUCTION

This report describes work undertaken during August, 1985, on a group of 5 modified grid claims, the CND group. The property covers the upper reaches of Perry, Hellroaring and North Moyie creeks.

The claims are of interest as potentially hosting economic gold mineralization in porphyritic sills and/or dykes referred to in previous writings as "Miner's porphyries".

Work on the property consisted of soil sampling for geochemical analysis, rock sampling, and general prospecting, undertaken by Stryder Explorations Ltd. under the supervision of the writer.

## PROPERTY

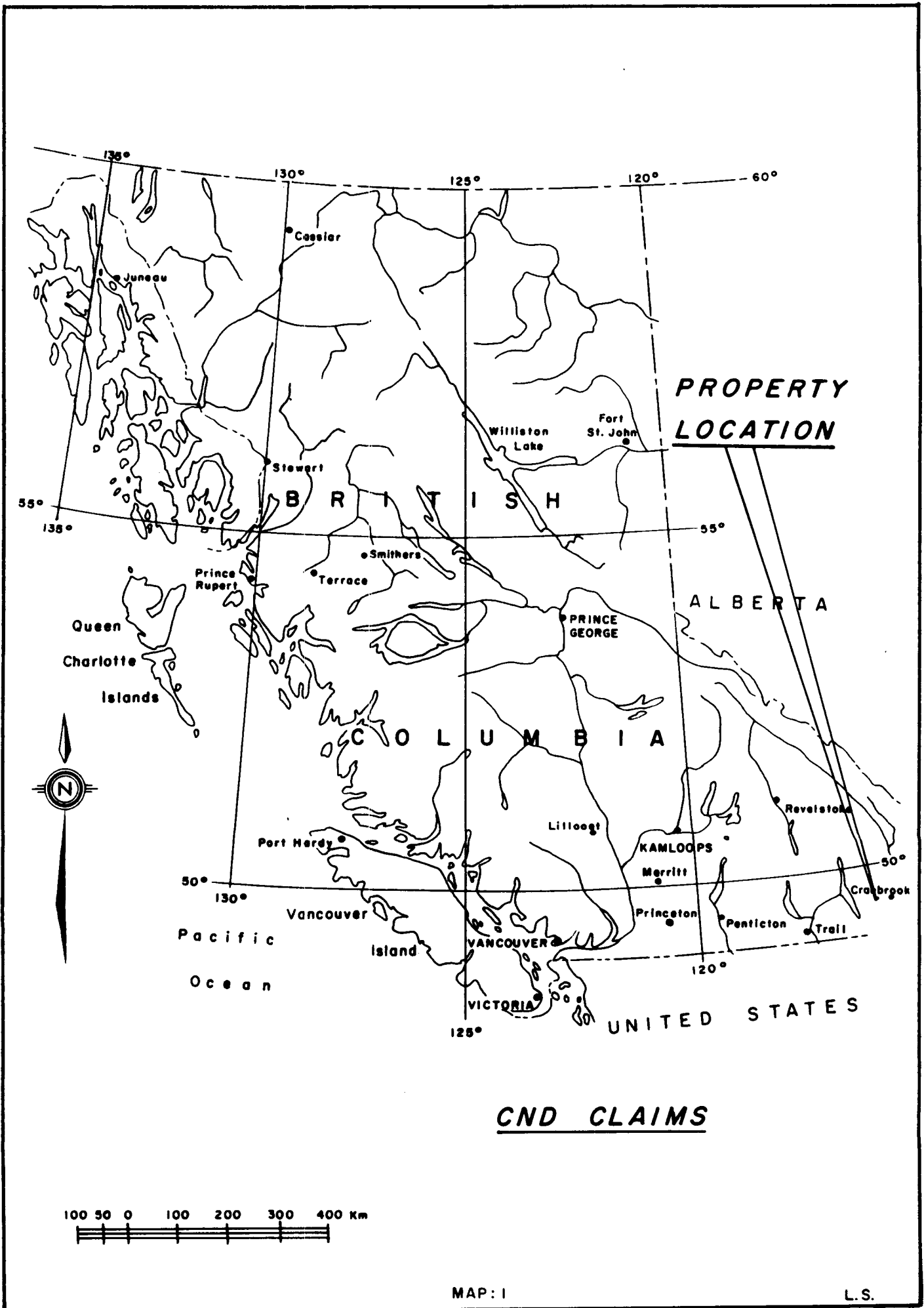
The property consists of 5 20 unit mineral claims, relevant data is outlined below in Table I, the location of the claims is shown on map 2.

TABLE 1.

<u>CLAIM NAME</u>	<u>RECORD NUMBER</u>	<u>No. Units</u>	<u>ANNIV. DATE</u>
CND	2321 11	20	Nov. 05 1987
CND 2	2266 09	20	Sept 24 1987
CND 3	2267 09	20	Sept 24 1987
CND 4	2268 09	20	Sept 24 1987
CND 5	2269 09	20	Sept 24 1987

The expiry dates shown take into account the surveys under discussion as being accepted for assessment credits.

The property is owned by the Fort Steele Grubstaking Syndicate, of Vancouver, British Columbia.



**PROPERTY  
LOCATION**

**B R I T I S H**

**A L B E R T A**

**C O L U M B I A**

**U N I T E D S T A T E S**

**CND CLAIMS**

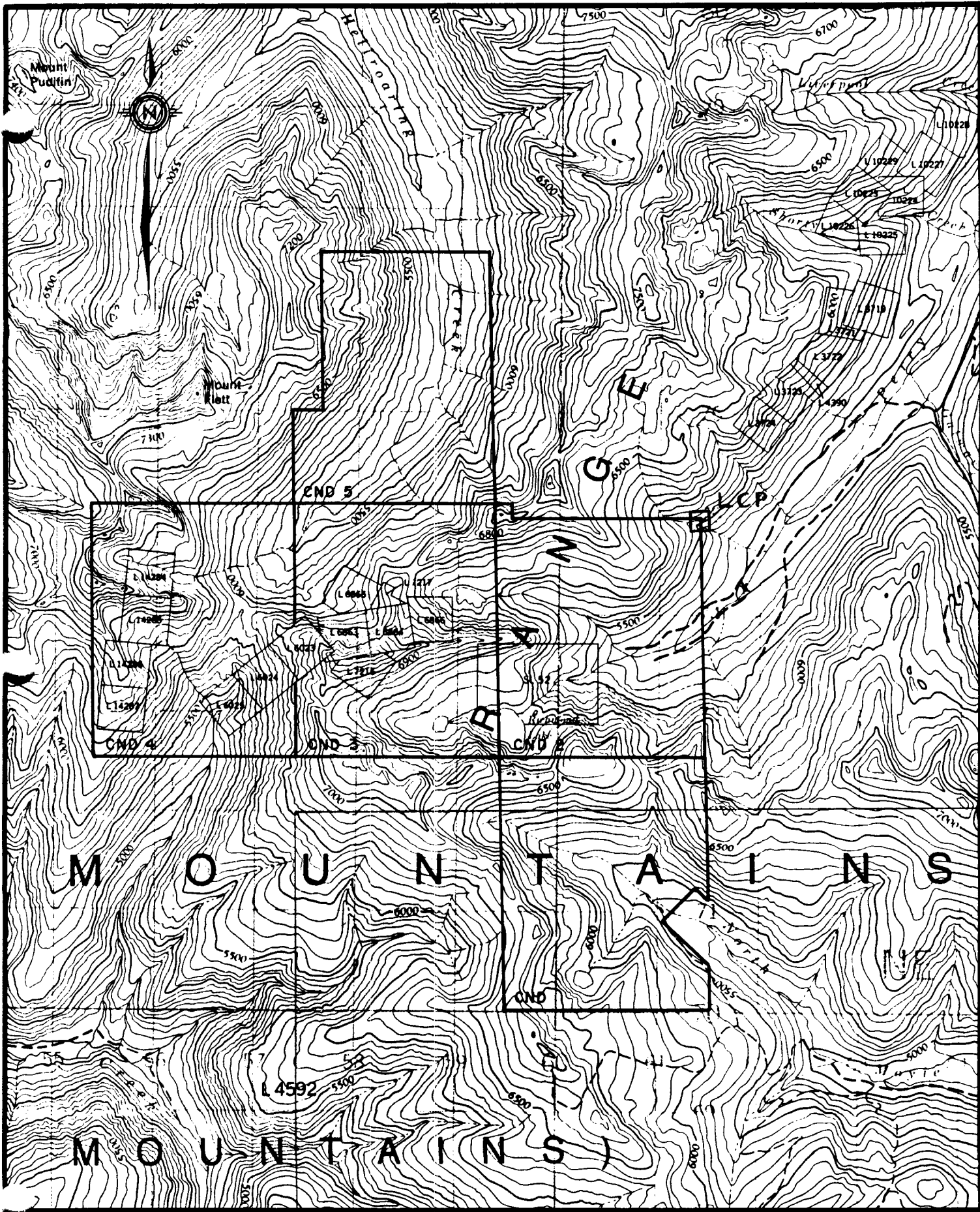


LOCATION, ACCESS, PHYSIOGRAPHY

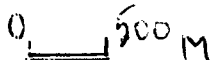
The property is in the Purcell Mountain ranges, to the west of the Rocky Mt. trench. The terrain consists of steep slopes throughout most of the claims, but moderate slopes on the divide between Perry and Hellroaring creeks. The elevation varies from 1500 meters a.s.l. to 2400 meters on the western edge of the property.

The property is located at the headwaters of Perry, Hellroaring and the North Moyie creeks, approximately 35 km west of Cranbrook, B.C.. Access is best gained by a good all weather gravel road leading south-west from Cranbrook. The CND claims are in the Fort Steele mining division N.T.S. 82 F/8 east.

The claims are within easy commuting distance of the town of Kimberly, which offers all the typical facilities of a small town. The nearest major center is Cranbrook, a further 30 km to the south-east.



CLAIM LOCATION MAP



### HISTORY OF PREVIOUS WORK

Since the CND claims have been staked, no previous work has been done.

The History of the area goes back to the 1880's when prospectors working the Perry Creek placers discovered the Nearby Leader A Claim. Little ore has been shipped from this vein, even though assays have run as high as 4.8.oz/ton Au and 6.8 oz/ton Ag. There are also high values in lead, zinc and copper.

The " Yellow Metal " workings where uncovered on the CND 3 claim, the workings are in good shape. They consist of several shafts, numerous pits, and many trenches and cuts. Records state that values of 0.41 to 0.6 oz/ton Au occur in some of these workings, a grab sample is said to have run 0.71 oz/ton gold. Subsequent sampling was unable to confirm these values in our program this year.

### REGIONAL GEOLOGY

The following is quoted from L. Sookchoff's 1983 Geological evaluation report on the nearby Leader 2 claim:

" The general geological setting of the area is of the Proterozoic Lower Percell Group which is divided into three formations. In the Hellroaring Creek - Angus Creek - Perry Creek area the Creston and Kitchener Formation predominate and are lenticularly northeasternly trending, commonly in a fault contact and bounded to the north and south by the Aldridge Formation.

"The basal Aldridge Formation - the oldest formation known to occur in the area - is composed mainly of grey to brownish grey, rusty weathered argillite and argillaceous quartzite.



"The Creston Formation is transitional from the Aldridge Formation and embraces that succession of greyish argillaceous quartzites which is included between the dark rusty weathering, argillaceous quartzites of the lower Aldridge Formation and the thin bedded, calcareous rocks of the upper Kitchener Formation. In general, the Creston Formation consists of argillaceous quartzites, purer quartzites and argillites whose beds average about one foot in thickness. Narrow beds, pods, and lenses of calcareous rocks occur in the upper part of the formation. These are more numerous toward the top of the Creston and where they are abundant, the strata are considered to belong to the overlying Kitchener Formation.

"The Creston Formation is host to gold quartz veins on Perry Creek, a north-easterly flowing tributary of the St. Mary River with the confluence 13 km northwest of Cranbrook. The deposits occur in the argillaceous quartzites which are well bedded in beds ' 2 inches to 2 feet ' in thickness, the latter separates by thin beds of meta-argillites.

"The deposits occur as true fissure veins averaging about ' 8 feet ' with some as wide as ' 20 feet '. They can be traced for long distances along strike. The gold values occur as native in the outcrops and with pyrite at depth.

"The Kitchener Formation [ joined with the Siyeh Formation to be called the Kitchener-Siyeh Formation or some maps ] consists predominately of impure, magnesium limestone, argillite and calcareous quartzite. Limestone and calcareous rocks compose the bulk of the formation and serve to distinguish it from the underlying formations. The upper part is generally argillaceous. Due to the formation containing easily deformed rocks, great stretches of it have been altered to chlorite and talc-carbonate schist.

"A small stock of porphyritic granite within one km west of the property intrudes sediments of the Creston Formation. The granite contains large idiomorphic crystals of orthoclase in an isometric groundmass of plagioclase, quartz and hornblende.

## STRUCTURE

"The general structure of the area is of a broad, northerly striking anticline exposing the core of the Proterozoic rocks with younger rocks to the west and east. The regional St. Mary's fault trends east northeast to the north of the property area and creates a fault contact with the Aldridge and younger formations.

"Faults extending from the south generally terminate or trend into the St. Mary's fault and commonly indicate contacts between the Creston and Kitchener formations.

"One of the fault contacts referred to as the Sawmill Creek Fault determines a Creston-Kitchener Formation contact which trends through the Leader A Claim. The St. Mary's fault is within two km north.

## MINERALIZATION

"On the adjacent Leader A Claim a mineralized quartz vein follows a strong fissure with varying strike from nearly north-south to north 35°- 50° with a dip of from 68° to 80° east. The vein varying from 'a few inches to three feet wide' can be traced along a length of 2000 feet. The vein is composed of white banded quartz containing galena, pyrite and locally chalcopyrite with tungsten reported in the adit at the southernmost extension of the vein.

"Assays from the Leader A vein reportedly returned up to 0.598 oz ton/Au and 10.56 oz Ag/ton across '1.9 feet' with a reported assay of 4.80 oz Au/ton. A reported 1720 tons of possible ore were calculated on the vein."

## PROPERTY GEOLOGY

Rice's G.S.C. map shows the Cnd claims are entirely underlain by the Middle Creston Formation, except on the extreme north western portion which is underlain by the Kitchener Formation.

Two major fault systems are shown to run through the claims, the main Perry Creek fault system is shown by Rice to strike northeasterly through the property

along Perry Creek and just south of Richmond Lake. The second fault system is the continuation of the Leader A fault system, this fault runs northeasterly roughly paralleling Perry Creek on the north side of the divide between Perry and Hellroaring creeks.

MINERAL DEPOSITS IN CLOSE PROXIMITY

The following is a description of two deposits ( besides the Leader deposits as described above ) occuring along Perry Creek, one being on the property and the orhter being a few km to the east and northeast and is taken from BCDM 1916.

The Columbia workings are a few km from the CND property.....

"Large quartz zone containing irregular and low grade disseminations of pyrite on hanging wall. To southeast is a zone of sheared rock with narrow veins of quartz carrying mostly irregular lenses of pyrite with some chalcopyrite and galena. Country rocks consists of Creston banded quartzite with argillite partings and intruded by dioritic dykes. "

The Yellow Metal showing is on the CND 3 claim.....

"The mineralization consists of scattered grains of pyrite and chalcopyrite, an open cut 4 X4 feet has been run for 40 feet up and down the hill, which crosscuts the bedding-planes of the quartzite, which is standing nearly verticle; There is no true quartz vein as in other places on the hill."

## GEOCHEMISTRY

A total of 332 soil samples was collected by Stryder Explorations Ltd. during this program of exploration. Samples were taken on an old pack trail leading from Shorty Creek over the divide between Perry and Hellroaring creeks and on into the Goat River drainage system, the trail cuts across the strike of the country rock enabling maximum results. The trail was surveyed in by compass, chain and altimeter, with sample stations marked with numbered day-glow flagging, at 10 meter intervals.

The samples were collected from the "B" horizon soil, approximately 10-20 cm below the surface. All samples were submitted to Acme Analytical Laboratories Ltd., of Vancouver, for analysis. The -80 # fraction of the samples was pulped and analysed for gold. Analytical results are presented in Appendix I.

Only every second sample was assayed, the other samples are in storage for analysis when additional funds are available.

Three well defined anomalies are present with several areas of elevated values. Of the 3 anomalies, the largest is some 440 meters in length, some 300 meters to the south is another anomalous area some 160 meters long. These with other high readings appear to be reflecting a gold bearing structure running perpendicular to the country rock, which is very interesting as a number of gold bearing prospects in the Perry Creek drainage have similarities. Additional sampling is strongly recommended oriented to defining the extent of these gold bearing areas.

Plotted values can be seen on figure 3 in the back pocket.

PROSPECTING AND GEOLOGICAL SAMPLING PROGRAM

During the course of our prospecting portion of the 1985 exploration on the CND mineral claims several areas of interest were discovered, a lot of time and attention was spent in the search for old workings, pits trenches etc., during this search what is believed to be the "Yellow Metal" showings were located. The description of the workings, their location, and basic geology correspond with the pits located on the CND # 3 claim on the divide between Perry and Hellroaring creeks. Samples sent in for analysis failed however to duplicate gold values as reported in old reports on this group of workings, this could be because the showings were small high grade pockets that were mined out completely.

All of the trenches and pits discovered were blasted out and chip sampled, the samples were sent to Acme Analytical Laboratories Ltd, of Vancouver for ICP analysis for Cu, Pb, Zn, Ag, As, Bi, and Au by fire assay. Results were poor at best, suggesting that the mineralization left is not associated with the massive quartz vein systems but in a disseminated form in the country rock.

Several other areas of interest were located but not followed up extensively, on the CND # 5 a large gossanous zone is located in the the northwest corner of this claim, it covers an area about 1 km long by 500 meters wide. This should be prospected thoroughly, soil sampled and geologically mapped as soon as the snow goes of it later this spring.

On the CND claim, west of the North Moyie Creek is a showing called the "Cariboo", this is a Pb, Zn, Ag, showing with some uranium and tungsten present. No time was spent at this showing other than to locate the old workings there.

On Perry Creek there is a company doing test pits to bedrock for placer mining. They are getting good gold values in their cleanout, the gold is very

coarse indicating that it has not traveled far from it's source. It is alot of the old prospectors opinions that the source for all of the Perry Creek placer deposits is in the main Perry Creek valley, and as we have all of the height of land at the headwaters there is a good chance that there is a gold deposit, hardrock, on the CND claims.

#### PHYSICAL WORK

As stated above all of the old workings that were discovered were blasted larger, mucked out and sampled. this program was cut short as the assays failed to yeild good values in gold.

Cut " V " in the Gold Run Creek basin was enlarged two fold from its original size, the cut was extended 2 meters deeper, 3 meters wider, 3 meters higher into the hillside.

On the divide between Perry and Hellroaring creeks there are several pits that where enlarged, the largest being 10 cubic meters larger than before, the other two were enlarge 6 and 4 cubic meters respectfully. The enlarging program did not uncover any great amounts of mineralization.

A pack trail was cut from the end of the Perry Creek main haul road up Gold Run Creek to the base camp a distance of 1300 meters. The trail is cut down to the ground and is no narrower than 2 meters. As well at the main camp logs cleared were stacked for la ter use in the construction of a perminant cabin at Gold Run Lake.

Two old pits on Green Mtn., 500 meters south east of Richmond Lake were cleaned out and sampled results were more encuraging than other areas. Results of the best samples is Pb. 273 PPM, Zn.210 PPM, Ag.2.0 PPM, As.145 PPM, and Au. 540 PPB. Further owrk in the form of grid sampling should be undertaken in this area..

RECOMMENDATIONS

PHASE 11

Extensive geological mapping is recommended for the majority of the property, emphasis on looking for a disseminated type gold deposit.

Follow grid soil samples above and below the old pack trail to define the extent of the gold geochemical anomalies discovered in this program.

Grid soil sampling and prospecting on Green Mtn. as well as geological mapping on the northern face where several quartz veins were discovered.

Reconnaissance geochemical sampling and Geological mapping on the the gossanous zone on the CND# 5 claim.

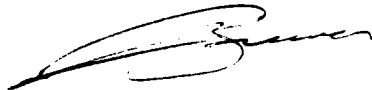
Minimum cost should be in the order of \$ 25,000.00 for Phase 11

STATEMENT OF QUALIFICATIONS

I Lloyd C. Brewer, of # 1016-470 Granville street, Vancouver, B.C., do hereby declare that:

- 1) I am president of Stryder Explorations Ltd and have been active in the mineral exploration field here in B.C. full time for the past five years.
- 2) I have practiced my profession throughout Canada and the USA.
- 3) This report on the CND claims is based on field observations, study of relevant literature, previous knowledge of the area, and results from the work carried out by Stryder Explorations Ltd., during the month of August 1985.

Dated this 20th day of December, 1985, at Vancouver, B.C.



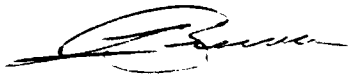
L.C. Brewer



STATEMENT OF COSTS

Project supervisor	25 days @ \$ 200.00	\$ 5,000.00
Field technician	20 days @ \$ 125.00	\$ 2,500.00
Field technician	20 days @ \$ 125.00	\$ 2,500.00
Field technician	20 days @ \$ 125.00	\$ 2,500.00
Cook	22 days @ \$ 100.00	\$ 2,200.00
CPS Explorations	subcontract	\$ 2,000.00
Dean Boyles	subcontract	\$ 800.00
Gordon Johnstone	subcontract ( pack horses )	\$ 500.00
Field expenses	110 man days \$ 30.00	\$ 3,300.00
Vehicle rental	4X4 25 days @ \$ 40.00	\$ 1,000.00
	2X4 10 days @ \$ 30.00	\$ 300.00
Assays		\$ 500.00
Drafting and report preparation		\$ 1,200.00
Power saw rental	20 days @ 10.00	<u>\$ 200.00</u>
Total		\$24,500.00

I, Lloyd Brwer, president of Stryder explorations Ltd., certify that the exploration described in this report was conducted during August, 1985, and was done at an all inclusive cost of \$ 24,500.00. This includes interpretive report.

  
Lloyd C. Brewer

Dec. 20, 1985

REFERENCES

- Chamberlain, V.R. Geological Report, Ursus Prospect, Marysville District,  
Assessment report No. 661, Sept. 1963
- Leech, G.B., Geology Map - St. Mary Lake, British Columbia, Sheet 82 F/9,  
G.S.C. Map 15-1957.
- Leech G.B., Geology Map - Fernie ( West-Half ), Geol. Surv. of Can.,  
Map 11-1960, 1960.
- Rice H.M.A., Cranbrook Map Area, British Columbia, G.S.C. Memoir 207, 1937
- Rice H.M.A. Nelson Map Area, East Half, British Columbia, G.S.C. Memoir  
228, 1966.
- Schofield, S.J. Geology of Cranbrook Area, British Columbia, 1915.
- Sookochoff, L. Geological Evaluation Report for Hawk Resources Inc. on the  
Leader 2 Mineral Claim, August 17, 1983

Ministry of Mines Reports:

- 1916 - p. 109,  
1921 - p. 126,127,  
1922 - p. 188,  
1928 - p.127,128,

APPENDIX I

Analytical certificates for soil sample analysis, from Acme Analytical Laboratories Ltd., Vancouver, B.C..

ACME ANALYTICAL LABORATORIES LTD.  
 852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6  
 PHONE 253-3158 DATA LINE 251-1011

DATE RECEIVED: OCT 2 1985

DATE REPORT MAILED: *Oct 8/8*

**GEOCHEMICAL ICP ANALYSIS**

.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.CA.P.CR.NG.BA.TI.B.AL.NA.K.W.SI.ZR.CE.SN.Y.NB AND TA. AU DETECTION LIMIT BY ICP IS 3 PPM.  
 - SAMPLE TYPE: ROCK CHIPS AU\* ANALYSIS BY AA FROM 10 GRAM SAMPLE.

ASSAYER: *T. Saundry* DEAN TOYE OR TOM SAUNDY. CERTIFIED B.C. ASSAYER

STRYDER EXPLORATION FILE # 2636 PAGE

SAMPLE#	Cu PPM	Pb PPM	Zn PPM	Ag PPM	As PPM	Bi PPM	Au* PPM
<del>1</del>	<del>1887</del>	<del>20098</del>	<del>2878</del>	<del>278.9</del>	<del>5638</del>	<del>6</del>	<del>550</del>
<del>2</del>	<del>33</del>	<del>2478</del>	<del>718</del>	<del>22.8</del>	<del>77</del>	<del>2</del>	<del>12</del>
3 GREEN MOUNTAIN	6	273	210	2.0	145	2	540
<del>4</del>	<del>48</del>	<del>299</del>	<del>5526</del>	<del>4.1</del>	<del>3461</del>	<del>3</del>	<del>130</del>
T-1 B-7	1	8	13	.1	4	2	1
T-1 B-11	4	13	8	.1	7	2	3
T-1 B-15	5	7	5	.1	3	2	1
STD C/AU-0.5	59	40	136	7.0	40	21	495

PITS  
ON  
DIVIDE

Assay required for correct result

ACME ANALYTICAL LABORATORIES LTD.  
852 E. HASTINGS, VANCOUVER B.C.  
PH: (604) 253-3158 COMPUTER LINE: 251-1011

DATE RECEIVED OCT 11 1985

DATE REPORTS MAILED

*Oct. 17/85*

### GEOCHEMICAL ASSAY CERTIFICATE

SAMPLE TYPE : SOILS -80 MESH

Au# - 10 GM. IGNITED, HOT AQUA REGIA LEACHED, MIBK EXTRACTION, AA ANALYSIS.

ASSAYER *V. Saundry* DEAN TOYE OR TOM SAUNDRY, CERTIFIED B.C. ASSAYER

STRYDER EXPLORATION FILE# 85-2758

PAGE# 1

SAMPLE	Au# ppb
L-A-2	17
L-A-4	6
L-A-6	10
L-A-8	9
L-A-10	12
L-A-12	14
L-A-14	12
L-A-16	9
L-A-18	23
L-A-20	11
L-A-22	20
L-A-24	17
L-A-26	70
L-A-28	3
L-A-30	1
L-A-32	3
L-A-34	65
L-A-36	4
L-A-38	9
L-A-40	1
L-A-42	10
L-A-44	8
L-A-46	140
L-A-48	295
L-A-50	11
L-A-52	70
L-A-54	315
L-A-56	175
L-A-58	215
L-A-60	160
L-A-62	130
L-A-64	80
L-A-66	95
L-A-68	3
L-A-70	6
L-A-72	80

SAMPLE	Au# oob
L-A-74	6
L-A-76	46
L-A-78	4
L-A-80	1
L-A-82	98
L-A-84	4
L-A-86	1
L-A-88	18
L-A-90	60
L-A-92	22
L-A-96	6
L-A-98	1
L-A-100	4
L-A-102	1
L-A-104	1
L-A-106	1
L-A-108	4
L-A-110	1
L-A-112	1
L-A-114	4
L-A-116	1
L-A-118	12
L-A-120	26
L-A-122	66
L-A-124	44
L-A-126	100
L-A-128	4
L-A-130	76
L-A-132	250
L-A-134	12
L-A-136	6
L-A-138	22
L-A-140	98
L-A-142	60
L-A-144	32
L-A-146	30

SAMPLE	Aux oob
L-A-148	3
L-A-150	11
L-A-152	2
L-A-154	32
L-A-156	15
L-A-158	13
L-A-160	7
L-A-162	6
L-A-164	20
L-A-166	14

FORT STEELE GRUBSTAKING SYNDICATE

CND CLAIMS

GOLD RUN CREEK, PERRY CREEK  
CRANBROOK AREA  
FORT STEELE MINING DIVISION, B.C.

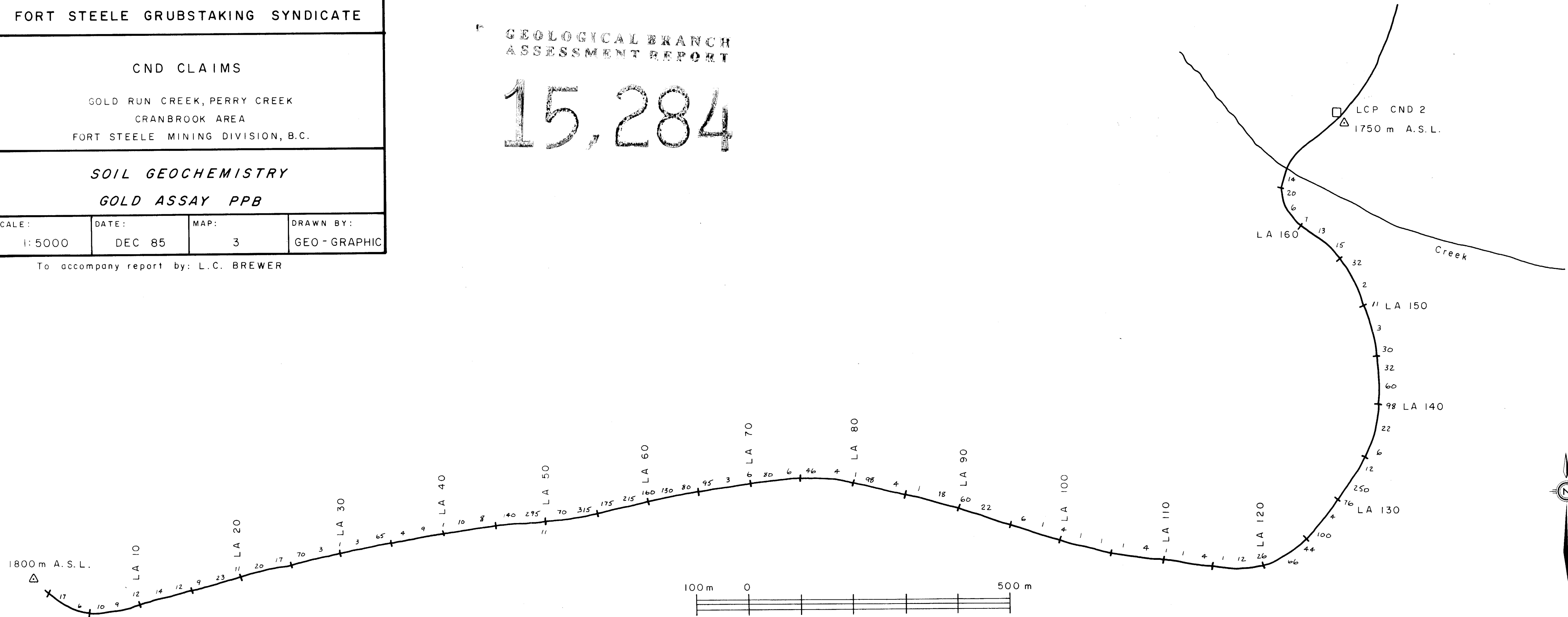
SOIL GEOCHEMISTRY  
GOLD ASSAY PPB

SCALE:	DATE:	MAP:	DRAWN BY:
1:5000	DEC 85	3	GEO-GRAPHIC

To accompany report by: L.C. BREWER

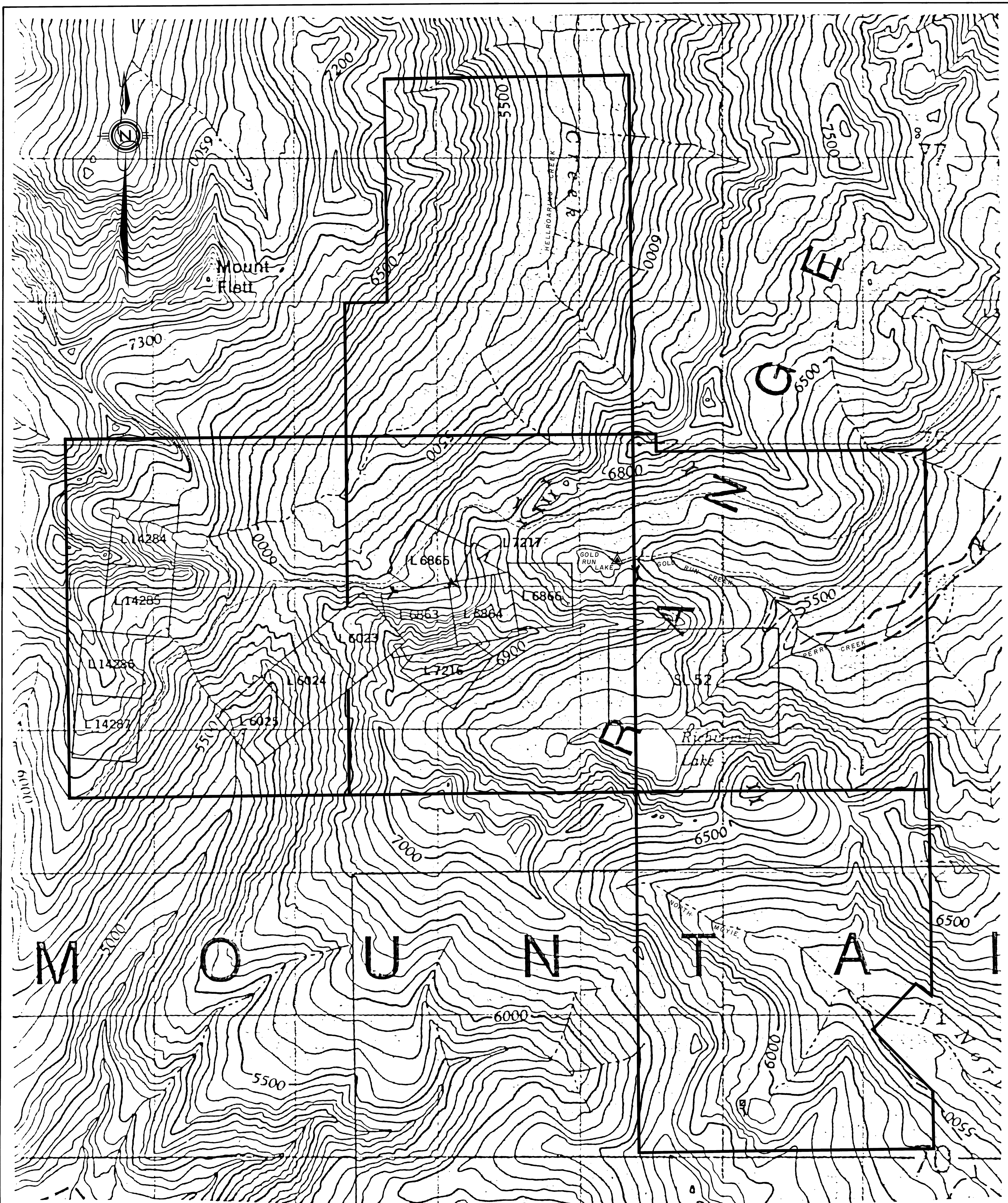
GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,284



Survey carried out by: STRYDER EXPLORATIONS LTD.





M O U N T A F T

GEOLOGICAL BRANCH  
ASSESSMENT REPORT

15,284

To accompany Report by C. REE

FORT STEELE GRUBSTAKING SYNDICATE

CND CLAIMS

GOLD RUN CREEK, PERRY CREEK  
CRANBROOK AREA  
FORT STEELE MINING DIVISION, B. C.

BASE MAP

WITH TRENCHES, SHAFT AND ADIT LOCATIONS

SCALE: 1:10,000	DATE: DEC 85	MAP: 4	DRAWN BY: GEO-GRAPHIC
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- LEGEND**
- Trench
  - Adit
  - Shaft
  - Trail
  - Road
  - Base camp



Survey carried out by: STRYDER EXPLORATIONS LTD.