830451

SOUTHERN STAR
082F/4

August 17 1994

To - Dr. N. Carter
1410 Wende Road
Victoria B.C.
V6B 4N9
PH-681-9558
Fax- 685-7100

From- S. Conkin
Real West Holdings Inc.
#4- 280 Columbia Ave.
Castlegar B.C.
V1N 1G4
PH-365-2909
Fax-365-6841

Subject- Gold prospect at Rossland B.C. owned by
Roy Ganderton
Site-1 Comp-15 RR#1
Cresecent Valley
VOG 1HO
PH- 359-7669

1. This brief is submitted under the understanding that the prospect and data enclosed is sensitive and could be subject to over-staking. Confidentiality is essential on your part to protect Gandertons interest.

2. Electra Mining Consolidated Ltd. has referred us to you for evaluation purposes. Your review of the material and any questions you may have should be referred to Mr. Ganderton.

3. BRIEF SUMMARY OF PROPERTY BY GANDERTON

A) BRIEF PRODUCTION HISTORY OF ROSSLAND CAMP

Between 1890 and 1941, over 3 million oz. of gold was produced. 98% came from a compact area measuring 500m x 1000m.

In 1985, I was of the opinion that it would be worth the time and expense to search the Rossland District for a similiar occurance.

Between 1987 and 1991 - 98 units were staked in the Strawberry Pass 15 kilometers north of Rossland. The claims were explored by geochemical, VLF and magnetic surveys. Several areas of hi-grade mineralization were discovered.

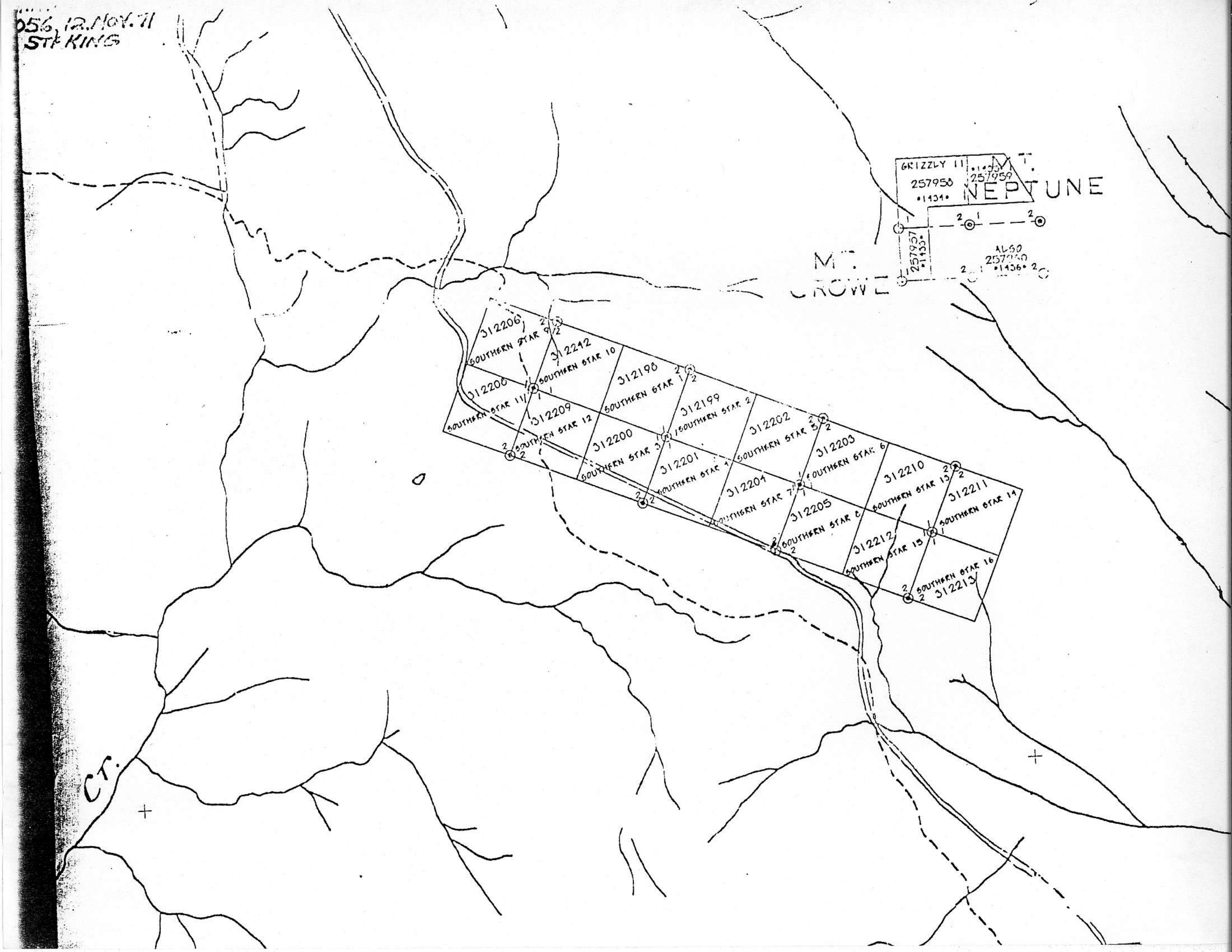
In 1993 the claims were reduced to sixteen 2 post claims staked to include the two best qualified drill targets and their strike potential. The new block is now known as the Southern Star group.

GOLD OCCURRENCES

Area A- At the Strawberry Pass project ground control survey, grid 9+60N 11+25W, a hydro-thermal quartz vein is located in the limestone conforming to the bedding at N65 W dip 45 NE. This silaceous zone assay's at .75-1.3 oz. Au per ton. Most importantly a strong coincident VLF/EM anomaly is present 50m north of the showing and trends easterly for 450m. The coincident magnetic anomaly is about 1000m in length. These indications probably reflect the down dip expression of massive sulphide mineralization.

Area B- About 300m N of Hwy 3B, several old trenches expose a Rossland type quartz/pyrite/pyrotite gold vein.
In 1989, 65m N backhoe trenches exposed an iron-stained brecciated and silicified fault zone. The best result was 39.16g/t over 2.0 m with anomalous value over a total length of 11m.
In 1990 two short angle holes were drilled (SW90-04 SW90-05) beneath the trenched area with negative results. However the drill holes did not extend far enough to test beneath the old workings or the 500+ gamma mag anomaly to the S.E. Maps are enclosed.

Area C- At the S.E. end of the Southern Star group is an area under-laid by granite. 5 samples from an area 400m x 300m are anomalous in Au (up to 1.27g/t and 5.25g/t) and Ag (up to 19.7g/t) Rock sampling in the area is sparse and no soil geo-chemistry or geo-physics has been conducted. Two additional known gold occurances exist on the Southern Star block. The claim group is available for option or outright purchase. A joint venture exploration financing agreement for earned interest will also be considered.


056, 12.NOV.71
STAKING
GRIZZLY 11
257958
•1434•
257959
MT. NEPTUNE
MT. CROWE
257957
ALSO
257960
•1436•
312206
SOUTHERN STAR 9
312242
SOUTHERN STAR 10
312208
SOUTHERN STAR 11
312198
SOUTHERN STAR 1
312209
SOUTHERN STAR 12
312199
SOUTHERN STAR 2
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SOUTHERN STAR 5
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SOUTHERN STAR 6
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SOUTHERN STAR 7
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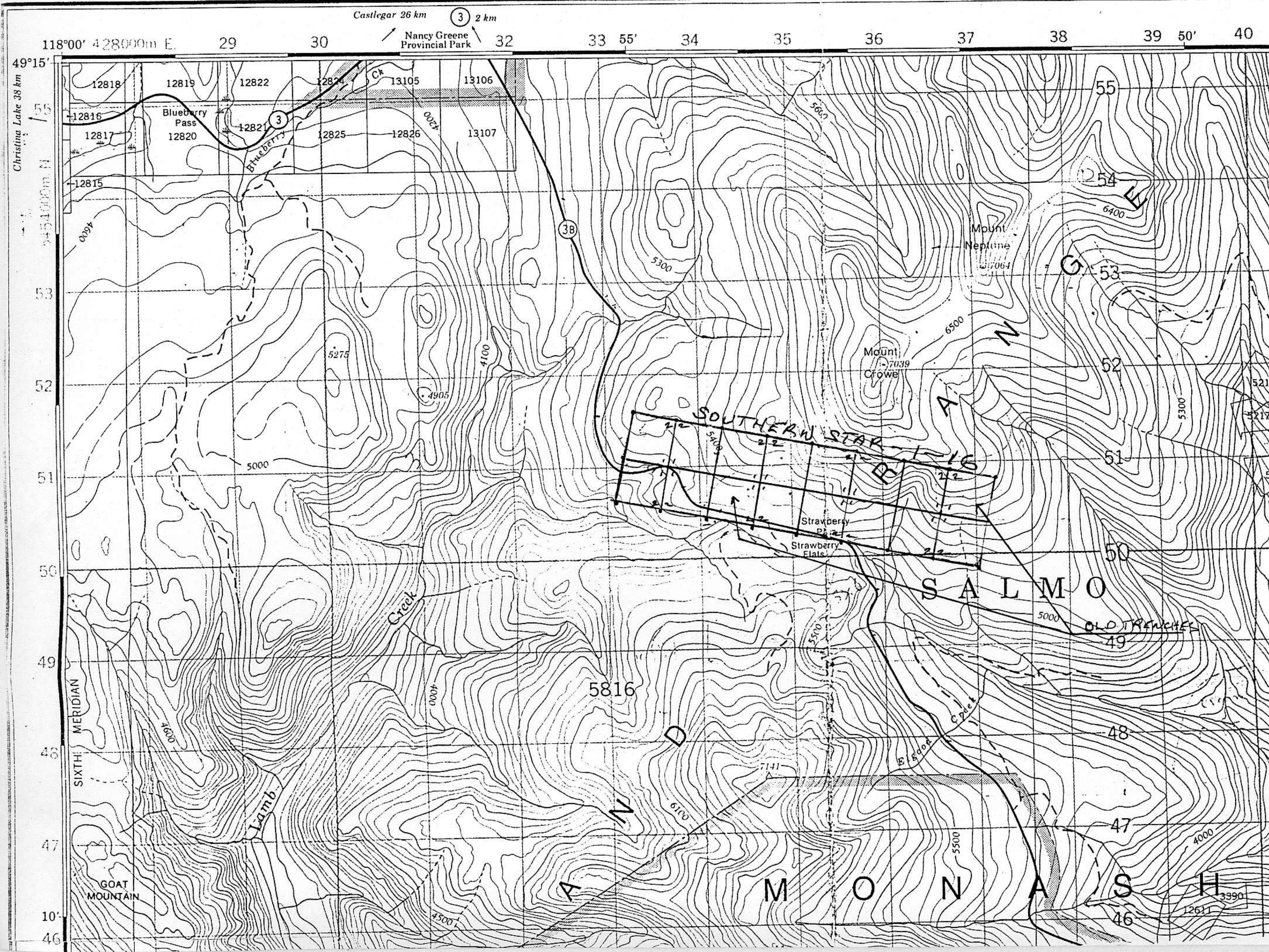
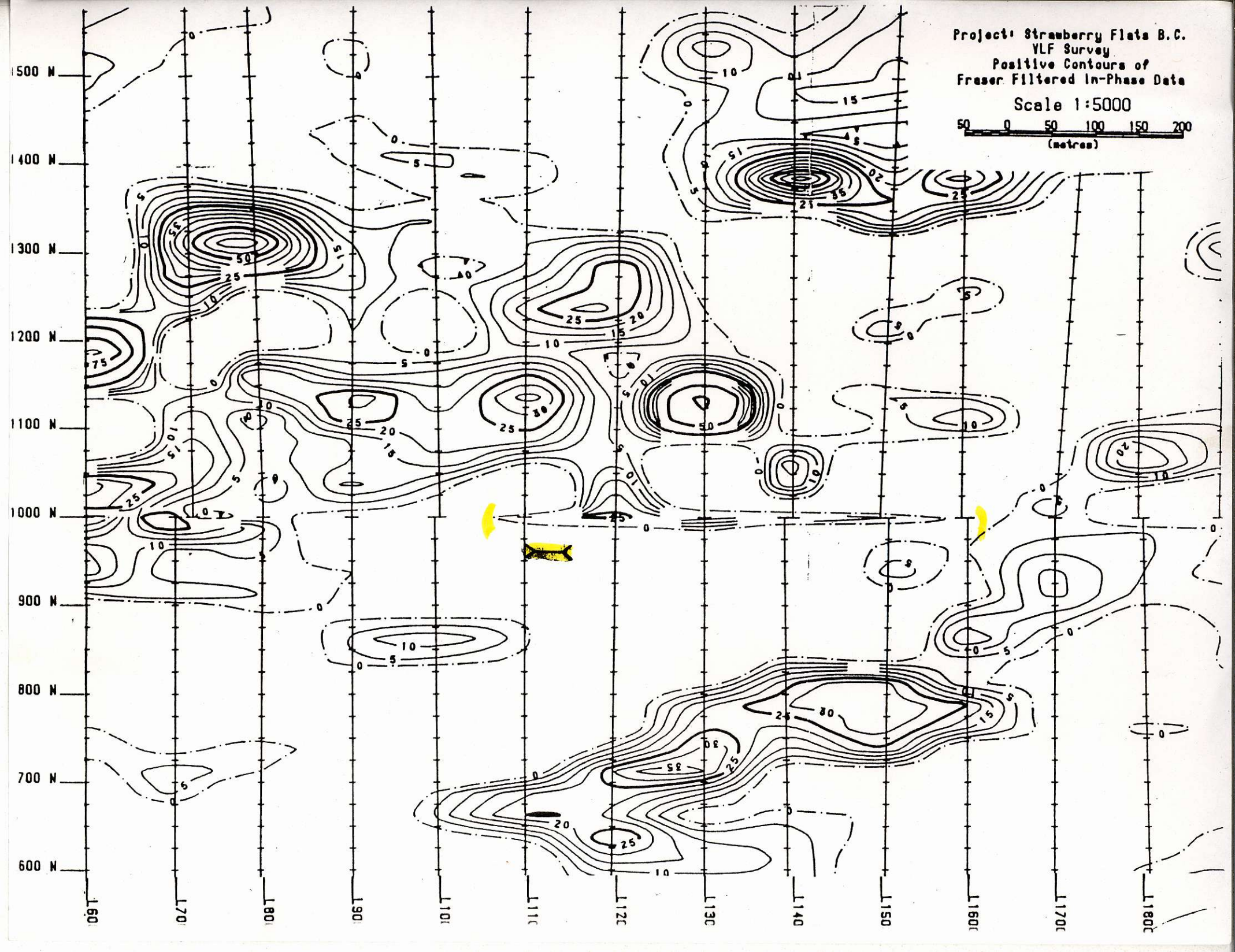
SOUTHERN STAR 8
312210
SOUTHERN STAR 13
312211
SOUTHERN STAR 14
312212
SOUTHERN STAR 15
SOUTHERN STAR 16
312213
CT.

82 F/4

1:50 000



Castlegar 26 km
3 2 km
Nancy Greene Provincial Park
118°00' 428000m E.
29
30
32
33
55'
34
35
36
37
38
39
50'
40
49°15'
Christina Lake 38 km
5451000m N
12818
12819
12822
12824
13105
13106
12816
Blueberry Pass
12820
12821
12817
12825
12826
13107
12815
Blueberry
Ck
3
3B
5600
55
54
6400
Mount Neptune
7064
53
6500
Mount Crowe
7039
52
5218
5217
5300
51
50
49
48
47
46
5275
4905
4100
4200
4600
5000
5300
5400
SOUTHERN STAR 1-16
Strawberry Pass
Strawberry Flats
SALMO
OLD TRENCHES
Creek
5500
5816
4000
SIXTH MERIDIAN
Lamb
Elgood Creek
7141
6100
4500
GOAT MOUNTAIN
10'
MONASH
RANGE
AND
3390
12611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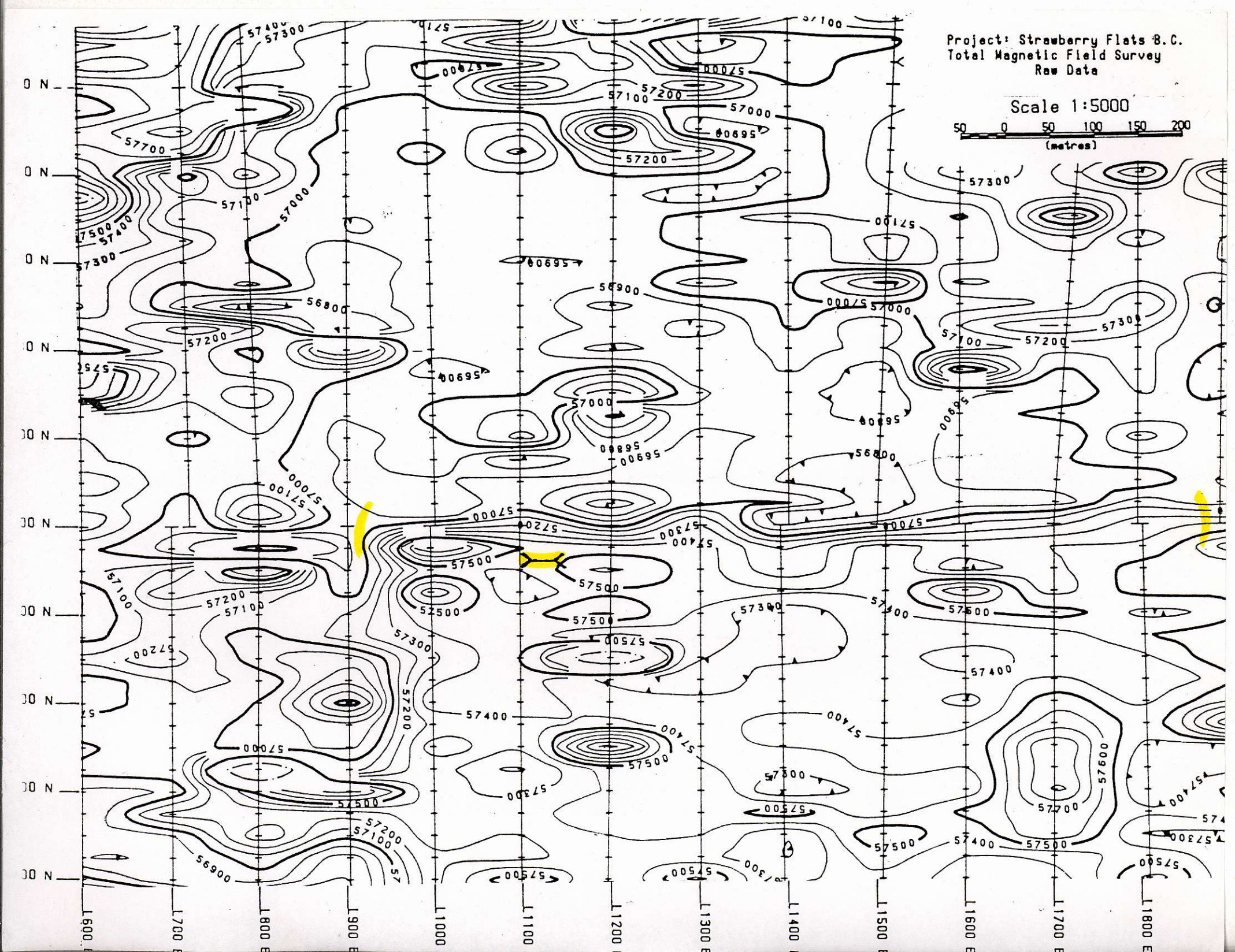
VLF Survey
Positive Contours of
Fraser Filtered In-Phase Data
Scale 1:5000
50 0 50 100 150 200
(metres)
1500 N
1400 N
1300 N
1200 N
1100 N
1000 N
900 N
800 N
700 N
600 N
160
170
180
190
110
120
130
140
150
160
170
180


Project: Strawberry Flats B.C.
Total Magnetic Field Survey
Raw Data
Scale 1:5000
50 0 50 100 150 200
(metres)
0 N
0 N
0 N
0 N
00 N
00 N
00 N
00 N
00 N
00 N
L600
L700
L800
L900
L1000
L1100
L1200
L1300
L1400
L1500
L1600
L1700
L1800

GEOLOGY MAP

LEGEND

LITHOLOGIC SYMBOLS

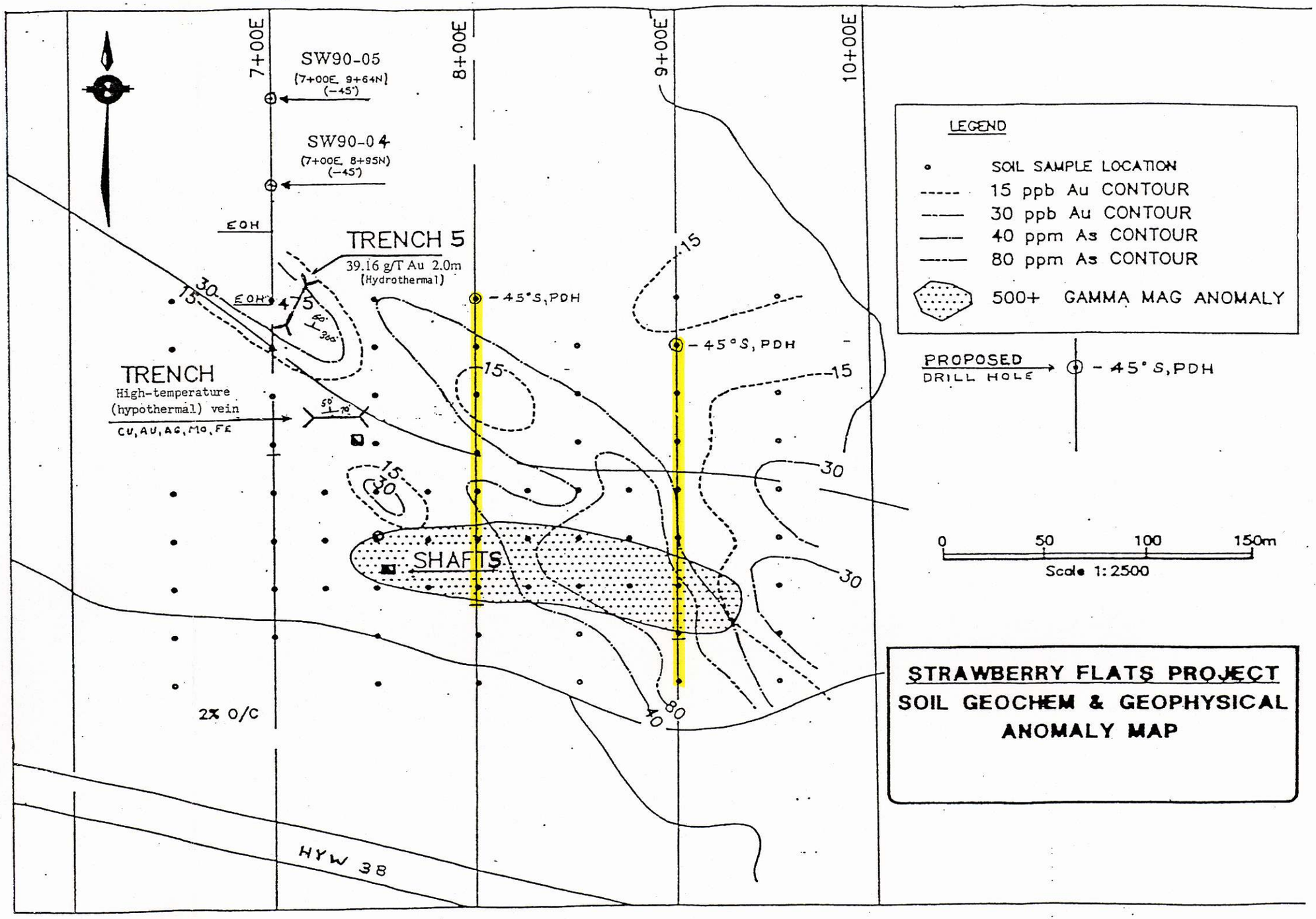
- VOLCANICS : intermediate tuff, lopilli tuff, agglomerate, and massive flows
- SILTSTONE : argillaceous quartzite, black siltstone, and greywacke
- LIMESTONE : massive limestone, sandy limestone, interbedded limestone/siltstone
- MASSIVE IGNEOUS : granodiorite, quartz diorite, diorite
- PORPHYRITIC IGNEOUS : syenite, quartz monzonite, granite, biotite–augite monzonite
- MAFIC DYKES : mafic fine–med. grained massive dykes

ALTERATION

- BIOTITE HORNFELS
- INTENSE CALC–SILICATE TO SKARN
- PYROXENE SKARN

SYMBOLS

- : outcrop boundary (approximate)
- : geological contact (approximate/assumed)
- 20 : bedding strike and dip
- : stream wit direction of water flow
- : road or highway
- : trench, pit
- : adit
- : shaft


7+00E
8+00E
9+00E
10+00E
SW90-05
(7+00E, 9+64N)
(-45°)
SW90-04
(7+00E, 8+95N)
(-45°)
EOH
TRENCH 5
39.16 g/T Au 2.0m
(Hydrothermal)
EOH
-45°S, PDH
-45°S, PDH
TRENCH
High-temperature
(hypothermal) vein
CU, AU, AG, Mo, FE
SHAFTS
2% O/C
HYW 38
15
30
40
80
LEGEND
SOIL SAMPLE LOCATION
15 ppb Au CONTOUR
30 ppb Au CONTOUR
40 ppm As CONTOUR
80 ppm As CONTOUR
500+ GAMMA MAG ANOMALY
PROPOSED
DRILL HOLE
-45°S, PDH
0
50
100
150m
Scale 1:2500
STRAWBERRY FLATS PROJECT
SOIL GEOCHEM & GEOPHYSICAL
ANOMALY MAP

STRAWBERRY FLATS PROJECT
Trench 5 Area
Geological Cross Section
SW90-04, SW90-05

Looking East

SW90-05
+00E, 9+64N
(-45°)

SW90-04
(7+00E, 8+95N)
(-45°)

Projection of Trench 5 onto Section

8+50 N

Overburden

Sediments

Intrusive

Sediments

Intrusive

Sediments

Intrusive

fractured blocky core

intensely blocky fractured core

1580M ASL

High-temperature (hypothermal) vein
CU, AU, AG, MO, FE

Limestone

SHAFT

75M South
Old Workings Indicate
Connected, Parallel, System ?

EOH 71.9m

EOH 117.6m

Target Intrusive
Embayment of Rising
Au Rich Hydrothermal
Solutions, or Limstone
Intrusive Marble Front
Cu Au Scarn?

Geology

Sample #'s

Assays

Sample #	Au (g/t)	Ag (g/t)	Cu (ppm)	As (ppm)
3011	0.215	0.40	9	7
3010	0.430	0.90	59	16
3009	0.470	0.60	36	11
3008	3.170	2.60	57	7
N/S				
3012	0.375	0.50	45	6
3007	31.290	6.60	790	39
3006	47.020	10.60	359	60
3005	0.865	1.20	82	9
3004	0.330	1.10	50	29
3003	0.085	0.80	36	11
3002	0.145	0.70	41	14
3001	0.150	0.90	58	9

Legend

- 4a. Calcareous Siltstone
- g. Limestone
- i. Calc-silicate
- j. Garnetiferous
- 8a. Granodiorite
- d. Granite
- 9c. Mafic Dyke
- e. Intermediate Dyke
- f. Lamprophyre Dyke
- g. Porphyritic
- Bedding
- % Skarning: 1= 0–25% skarn; 2= 26–50% skarn; 3= 51–75% skarn; 4= 76–100% skarn

0 5 10 15 20 25m

MINFILE NUMBER: 082FSW340 NATIONAL MINERAL INVENTORY:

NAME(S): STRAWBERRY FLATS

STATUS: Showing
NTS MAP: 082F04W
LATITUDE: 49 12 24
LONGITUDE: 117 53 32
ELEVATION: 1600 Metres
LOCATION ACCURACY: Within 500M
COMMENTS: Located at Strawberry Pass, a few hundred metres north of Highway 38 (Assessment Report 19741, Figure 4).

MINING DIVISION: Trail Creek
UTM ZONE: 11
NORTHING: 5450600
EASTING: 435000

COMMODITIES:	Gold	Silver	Copper	Lead	Zinc
MINERALS					
SIGNIFICANT:	Pyrrhotite Stibnite	Pyrite Arsenopyrite	Chalcopyrite Magnetite	Galena	Sphalerite
ASSOCIATED:	Quartz	Carbonate			
ALTERATION:	Pyroxene	Carbonate	Epidote	Chlorite	Silica
ALTERATION TYPE:	Skarn	Silicific'n			
MINERALIZATION AGE:	Unknown				
DEPOSIT					
CHARACTER:	Podiform	Vein	Disseminated	Massive	
CLASSIFICATION:	Skarn				

HOST ROCK
DOMINANT HOST ROCK: Sedimentary

STRATIGRAPHIC AGE	GROUP	FORMATION	IGNEOUS/METAMORPHIC/OTHER
Pennsylvan.-Permian	Undefined Group	Mount Roberts	
Jurassic			Nelson Intrusions

LITHOLOGY: Limestone
Shale
Calc-silicate Hornfels
Mafic Dyke
Granodiorite
Volcanic Rock

HOST ROCK COMMENTS: The intrusive rocks are probably related to the Nelson and/or Coryell intrusions.

GEOLOGICAL SETTING
TECTONIC BELT: Omineca
TERRANE: Kootenay
METAMORPHIC TYPE: Contact
PHYSIOGRAPHIC AREA: Selkirk Mountains
RELATIONSHIP:
GRADE:

RESERVES

ORE ZONE: TRENCH

CATEGORY: Assay
SAMPLE TYPE: Chip
YEAR: 1990

COMMODITY	GRADE	
Silver	6.5500	Grams per tonne
Gold	39.1600	Grams per tonne

COMMENTS: From a 2 metre chip sample.
REFERENCE: Assessment Report 19741

CAPSULE GEOLOGY

The Strawberry Pass occurrence is underlain by a generally east striking, steep northwest dipping sequence of dark grey argillaceous limestones, limey siltstones, fine sandstones and andesitic to dacitic volcanics and volcaniclastics of the Pennsylvanian to Permian Mount Roberts Formation. The strata in this area are sandwiched between syenitic to monzonitic rocks of the Middle Eocene Coryell Intrusions, about one kilometre to the south and granodioritic rock

CAPSULE GEOLOGY

of the Middle to Late Jurassic Nelson Intrusions, a few kilometres to the north. Hornblende porphyritic to basaltic dykes intrude all other rocks in the area.

Several trenches exposed a variably mineralized skarn zone containing pods, veins and disseminations of gold-bearing massive pyrrhotite plus or minus chalcopyrite, pyrite, magnetite and stibnite. The skarn minerals include pyroxene (diopside), quartz, carbonate, epidote, and chlorite. The rocks in the trenches include limestones, shales, calc-silicate hornfels as well as mafic and granodioritic intrusives. Quartz-carbonate veins in one trench are also reported to be rich in pyrite, sphalerite, galena, chalcopyrite and arsenopyrite. A silicified section from this trench assayed 39.16 grams per tonne gold and 6.55 grams per tonne silver over 2 metres (Assessment Report 19741).

BIBLIOGRAPHY

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EMPR OF 1988-1; 1989-11; 1990-8; 1990-9; 1991-2; 1991-16
EMPR FIELDWORK 1987, pp. 19-30; 1988, pp. 33-43; 1990, pp. 9-31
GSC P 79-26
GSC MEM 308
GSC MAP 7-1962; 23-1963; 1090A; 1504A
GSC OF 1195

DATE CODED: 910201 CODED BY: GJP FIELD CHECK: N
DATE REVISED: REVISED BY: FIELD CHECK: N