GENSTAR PROPERTY

(Genesis 5, 9, 10-22, Silver Star, Blue Star, White Star, Dark Star, Ripple)

PRELIMINARY MAPPING, SAMPLING, MAGNETIC SURVEYS

Latitude: 50°25'N Longitude 120°35'W

N.T.S. 92I/7E

KAMLOOPS MINING DIVISION
British Columbia

B.H. Kahlert PEng
P.L. Grexton

GEOLOGICAL BRANCH
ASSESSMENT REPORT

Vancouver, B.C.
August 1993

TABLE OF CONTENTS

LIST OF APPENDICIES

LIST OF TABLES

LIST OF FIGURES

SUMMARY:

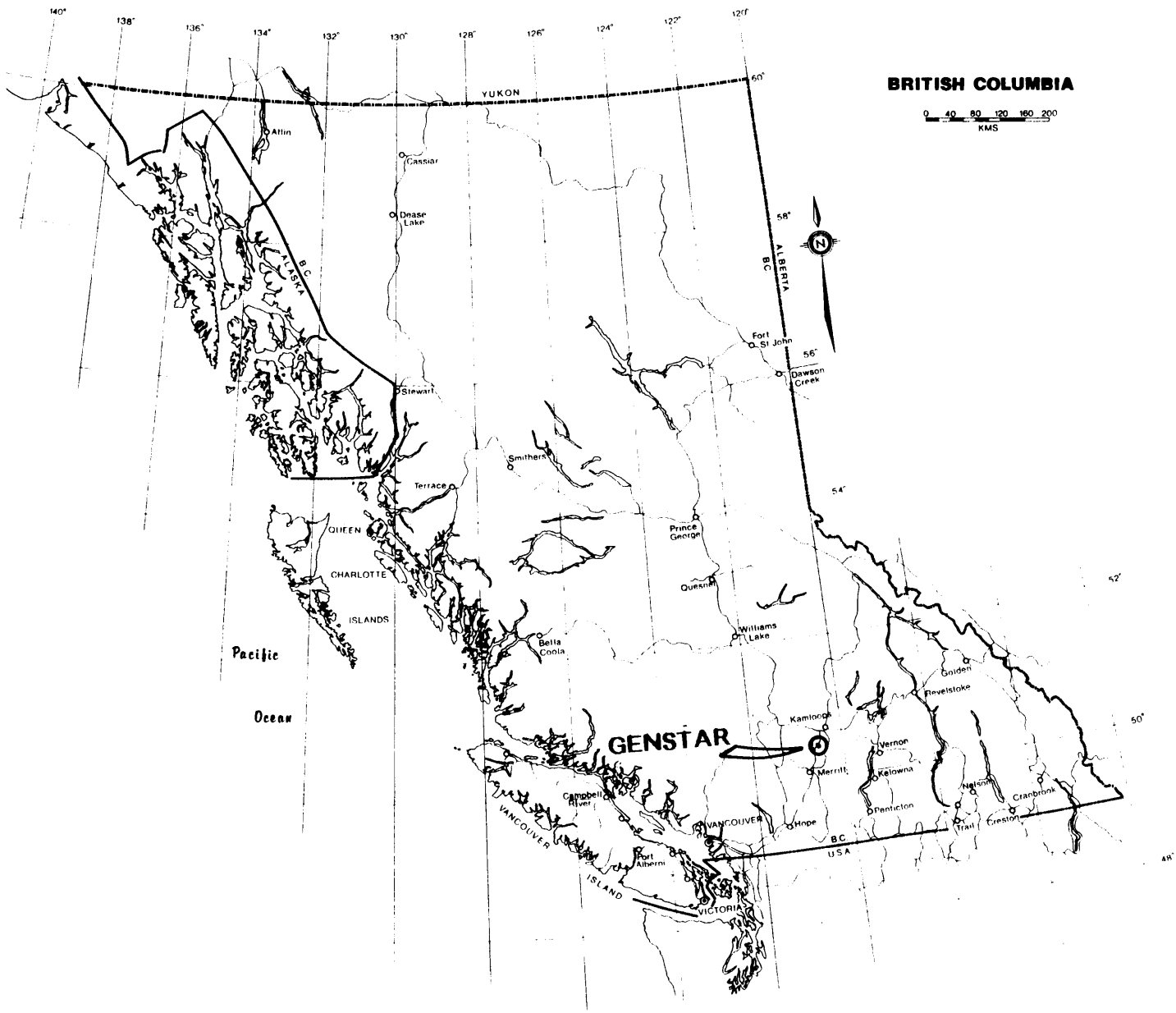
The Genstar Property is located 35 km south of Kamloops, B.C. on N.T.S. map sheet 92I/7E. Claims cover a forested area of low rounded hills and gentle slopes. The Coquihalla Highway crosses the western portion of the property. Access to the eastern part of the claims is available via the Lac Le Jeune Forest Service Road .

Genstar is within the Quesnellia Terrane and occupies the eastern margin of a broad, northerly belt of Nicola Gp. rocks which is bounded to the east and west by the Nicola and Guichon Batholiths, respectively. Quesnellia Terrane is host to a number of significant copper-gold porphyry deposits. Recorded historical data show moderate to strongly anomalous Cu (1200 ppm) occurring in soils over a 4 km^2 area in the central portion of the claims. Government maps indicate alkaline intrusive rocks bearing similarities to the Iron Mask Batholith occur in the immediate area. A large subcircular magnetic high of moderate relief is present in the western half of the property. A northeast trending linear anomaly of high relief occurs in the east half.

Comprising 63 contiguous units, the claims protect an area having good potential for hosting a copper-gold porphyry deposit. Between July 24, 1992 and May 16, 1993, two individuals spent 14 mandays on the property. This preliminary investigation was aimed at confirming the presence of alkaline intrusions emplaced within favourable Nicola Gp. host rocks, verifying the strong aeromagnetic anomaly on the east half of the claims and sampling any interesting mineralization and alteration encountered. Work included 4.4 km of magnetic traversing, construction of 17 km of flagged reference lines, collection of 26 rock and 4 silt samples, and a cursory examination of exposed bedrock.

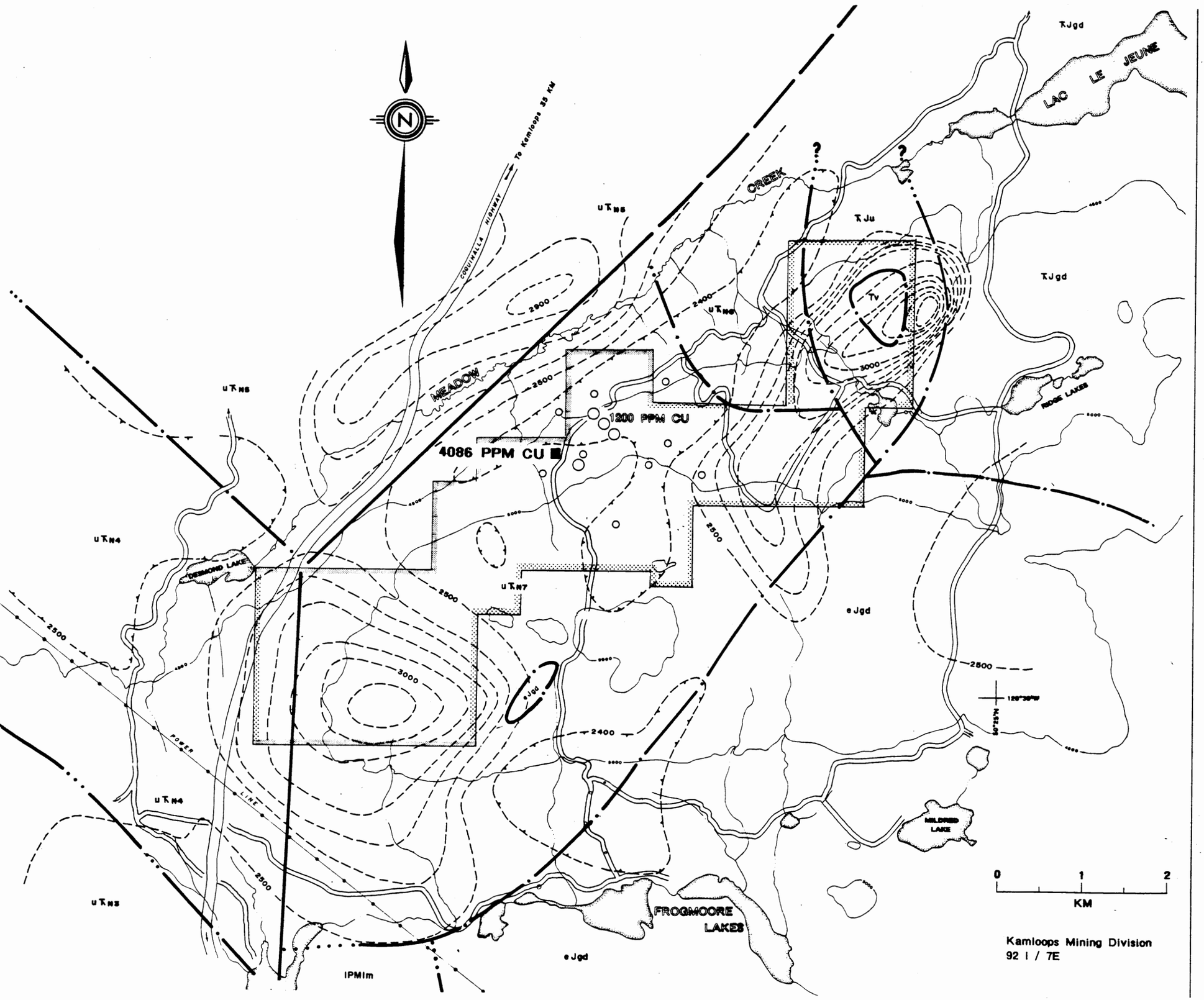
Intrusive rocks of compositons ranging from diorite to alkaline granite were found on the west half of the claims. Exposures of syenite were present in the east. Alteration assemblages include ubiquitous chlorite, epidote and local occurrences of quartz, sericite, biotite and potassium feldspar. A sample of (15%) pyritized andesite returned 4086 ppm Cu with 50 ppb Au and anomalous Sb, Bi and Ag. Magnetic traversing outlined a 700 m wide intrusive complex in the vicinity of syenite outcrop.

The 1992-1993 program successfully verified the existance of a geological setting strongly favourable for the formation of an economic copper porphyry deposit. It is reccommended that mapping and bedrock sampling be completed over the entire property, soil sampling and prospecting be conducted in the vicinity of known intrusions with priority given to the intrusive complex associated with the eastern magnetic anomaly, the 4 km^2 Cu anomaly be resampled, magnetometer surveying be completed over the property and detailed prospecting be conducted in the vicinity of the 4086 ppm Cu sample. Salient features of the property are summarized on Figure 2.



LOCATION MAP

FIGURE 1



LEGEND

TERTIARY
- Tv — Basalt

JURASSIC & CRETACEOUS
- eJgd — Nicola Batholith - Granodiorite, quartz monzonite

TRIASSIC & JURASSIC
- TJu,gd — Ultramafic intrusions of uncertain age, granodiorite

TRIASSIC
NICOLA GROUP
- uTN3 — Intermediate (augite, plagioclase) volcanic porphyry, sedimentary rocks
- uTN4 — Pillowed basalt
- uTN5 — Volcanic (augite) porphyry, argillite
- uTN6 — Sedimentary rocks
- uTN7 — Foliated diorite, amphibolite; metamorphic equivalents to N5 & N6

PALEOZOIC & MESOZOIC
- IPMlm — Schist

Fault

Geologic contact

1972 SOIL SURVEY HIGHLIGHTS
- ≥ 500 ppm Cu MAXIMUM 1200 PPM COPPER
- 350 - 499 ppm Cu

AEROMAGNETIC RESPONSE- 100 GAMMA CONTOUR INTERVAL

GENESIS 1-24 PROPERTY BOUNDARY

Topographic contour, feet a.s.l.

Creek

Lake or pond

Logging or secondary road

GENSTAR PROPERTY

TARGET SUMMARY

FIGURE 2

CONCLUSIONS:

1. The presence of alkaline intrusive rocks including syenite have been found across the property.

2. Magnetic and geological data indicate that at least three intrusive stocks occur in the southwest and northeast portion of the property. Magnetic profiling has identified the causative source of the eastern magnetic anomaly as a 700 m wide intrusive complex with variable magnetite.

3. Propylitization, silicification and potassic alteration assemblages typical of Cu porphyry deposits are present in the west and cental portion of the claims.

4. Geochemical analyses detected significant Cu (4086 ppm) in one sample of pyritic andesite.

5. Due to limited staining, potassium feldspar alteration and alkaline rock units are probably more extensive than current mapping indicates.

RECCOMMENDATIONS:

1. Reconnaissance geological and bedrock sampling surveys should be completed over the entire property.

2. Soil sampling and prospecting should be completed in the vicinity of known intrusives. Priority should be given to the larger intrusive complex and syenite occurrence on the east half of the property.

3. Effort should be made to determine the source of the Cu-bearing pyritic andesite which ran 4086 ppm Cu.

4. The old Ram Claim Cu soil anomaly in the central part of the property should be verified and detailed by resampling. Gold content of these samples should be determined by geochemical analysis.

5. Magnetic profiling should be completed over the western aeromagnetic anomaly to identify and define the causative source.

LOCATION AND ACCESS

Centred on latitude 50°25.3'N and longitude 120°35.2'W, the Genstar property is located immediately east of Desmond Lake, 40 km south of Kamloops B.C. It is in the Kamloops Mining Division on N.T.S. map sheet 92I/7E.

The Coquihalla Highway crosses the western portion of the property. Access to the eastern and central portion of the claims is possible from Lac Le Jeune via Ridge Mountain Forest Service Road and a network of new and old logging roads. Travel time from Kamloops via either route is 35 to 45 minutes. Most roads are passable with two wheel drive. See Figures 1 and 2 for location and access.

TOPOGRAPHY, VEGETATION AND GLACIATION

Claims cover an area of low, rounded hills and gentle slopes. Second growth pine, spruce and poplar predominate. Cedar grows in small boggy areas. Deciduous undergrowths of willow and poplar occur locally. Extensive deadfall over much of the property indicates the area burned less than 25 years ago. Clearcut logging blocks are present on the east half of the property. Property elevations range from 1280 to 1706 m asl (4200 to 5600 feet asl). A number of small creeks drain the area.

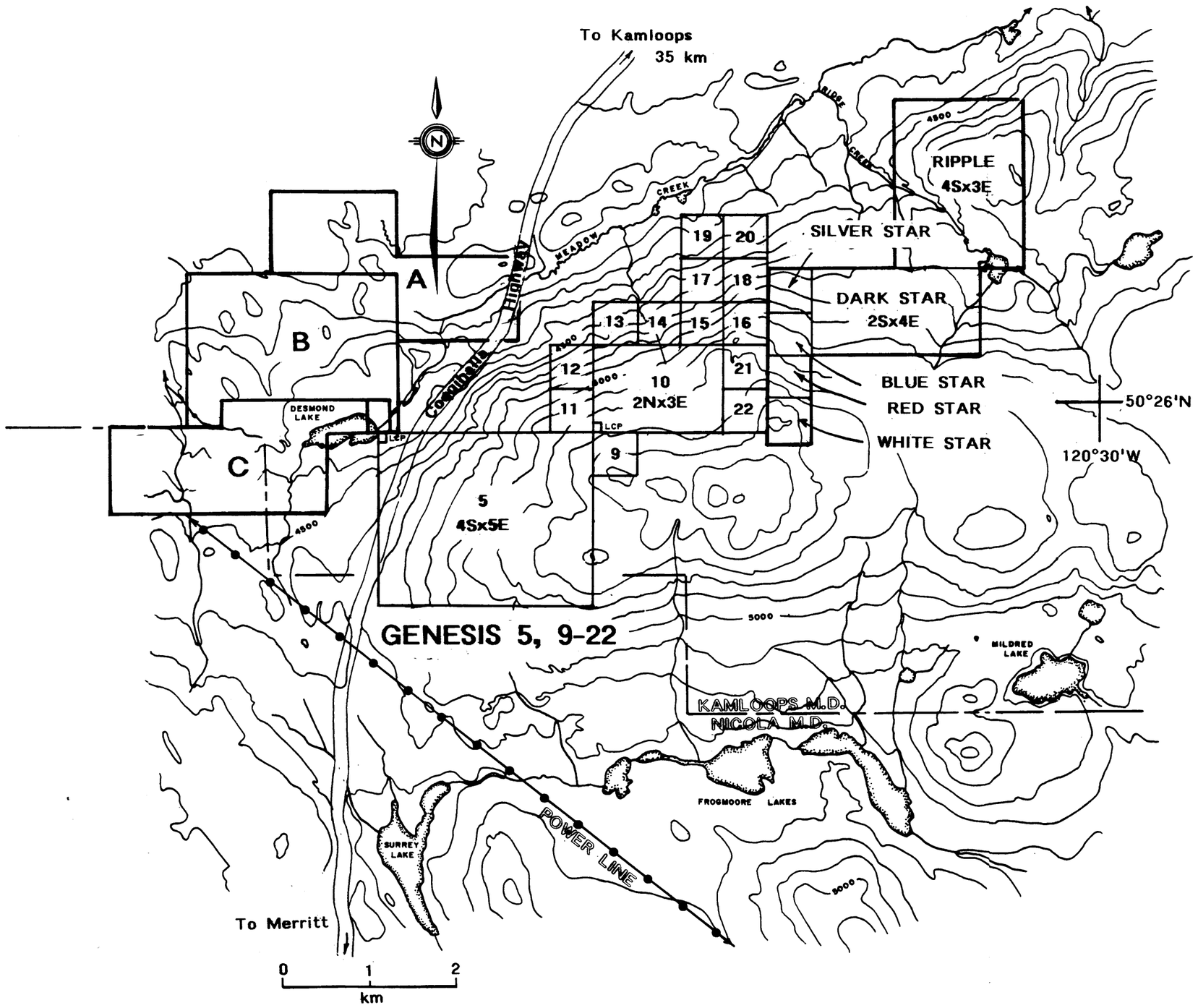
Government maps indicate ice movement through the area was from northwest to southeast. About 85% of the property is covered by glacial debris.

CLAIM DATA

The property comprises 4 four post claims and 17 two post claims totalling 63 contiguous units. Claim statistics are presented in Table 1 below. Locations are shown on Figures 1 and 3. Copies of claim affidavits are in Appendix I.

TABLE 1 CLAIM DATA

Name	Tenure #	Dimension	Units	Staked	Expires	Owner
Genesis 5	309736	4S x 5E	20	18 05 92	18 05 94	Grexton
Genesis 9	309745		1	17 05 92	17 05 94	Grexton
Genesis 10	309734	2N x 3E	6	22 05 92	22 05 94	Grexton
Genesis 11	309746		1	22 05 92	22 05 94	Grexton
Genesis 12	309747		1	22 05 92	22 05 94	Grexton
Genesis 13	309748		1	22 05 92	22 05 94	Grexton
Genesis 14	309749		1	22 05 92	22 05 95	Grexton
Genesis 15	309750		1	22 05 92	22 05 95	Grexton
Genesis 16	309751		1	22 05 92	22 05 95	Grexton
Genesis 17	309752		1	22 05 92	22 05 95	Grexton
Genesis 18	309753		1	22 05 92	22 05 95	Grexton
Genesis 19	309754		1	22 05 92	22 05 94	Grexton
Genesis 20	309755		1	22 05 92	22 05 94	Grexton
Genesis 21	309756		1	22 05 92	22 05 94	Grexton
Genesis 22	309757		1	22 05 92	22 05 94	Grexton
Silver Star	309991		1	23 05 92	23 05 95	Kahlert
Blue Star	309992		1	23 05 92	23 05 95	Kahlert
Red Star	309993		1	23 05 92	23 05 95	Kahlert
White Star	309994		1	23 05 92	23 05 95	Kahlert
Dark Star	309995	2S x 4E	8	23 05 92	23 05 94	Kahlert
Ripple	309996	4S x 3E	12	22 05 92	22 05 94	Kahlert



A

JB 1-12
9977-9988
Grant Crooker

B

WRT 12
6185
Carulli Resources

C

DES 1-4
1544, 7856-7858
C. Boitard

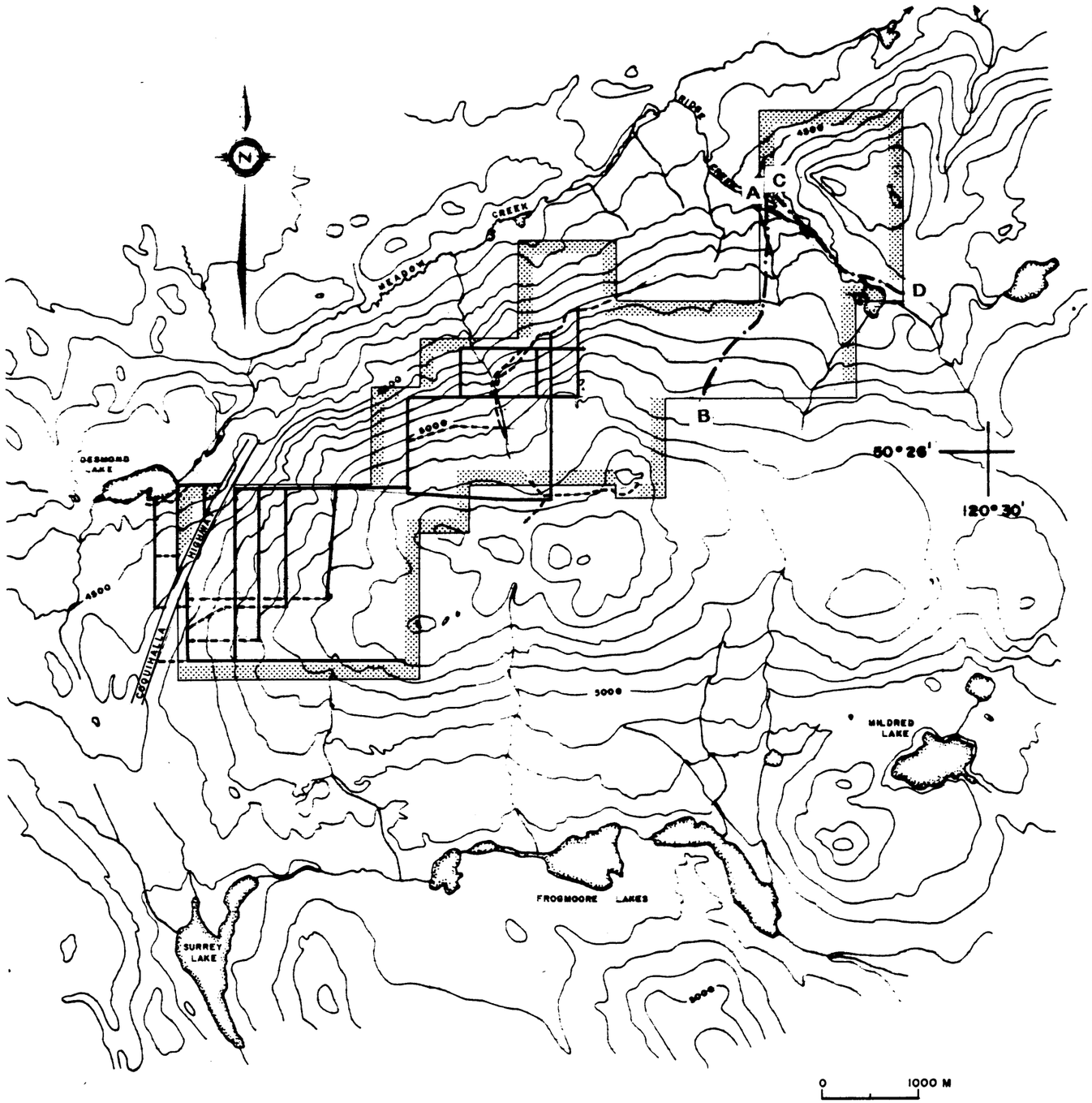
GENSTAR PROPERTY **CLAIM MAP**

FIGURE 3

1992 - 1993 PROGRAM

Purpose of the program was to confirm the potential for Cu (Au) porphyry style mineralization related to the emplacement of alkaline intrusions similar to those of the Iron Mask Batholith. This preliminary investigation aimed at confirming the presence of alkaline intrusions through favourable Nicola Gp. host rocks, verifying the strong aeromagnetic anomaly on the east half of the claims and documenting and sampling any significant alteration and mineralization encountered.

Between July 24, 1992 and May 16, 1993, B. Kahlert and L. Grexton spent 14 mandays on the property. Ground magnetic profiling was completed along two traverse lines across the Dark Star and Ripple claims. Readings were taken at 100 and 200 m intervals over a total distance of 4.4 km. On the west half of the property, roughly 17 km of flagged and sloped corrected lines were constructed using a compass and hipchain. Rock exposures encountered were given a cursory examination. A total of 26 rock and 4 silt samples were collected and delivered to Rossabacher Laboratory of Burnaby, B.C. They were analysed for Cu plus 31 other elements using ICP and for Au by atomic absorption. Traverse lines are plotted on Figure 4. Certificates of Analysis, methods and detection limits are in Appendix II.



Control Line, slope corrected, flagged

Traverse Line, slope corrected

Magnetometer Survey Line

Property Boundary

GENSTAR PROPERTY **TRAVERSE MAP**

FIGURE 4

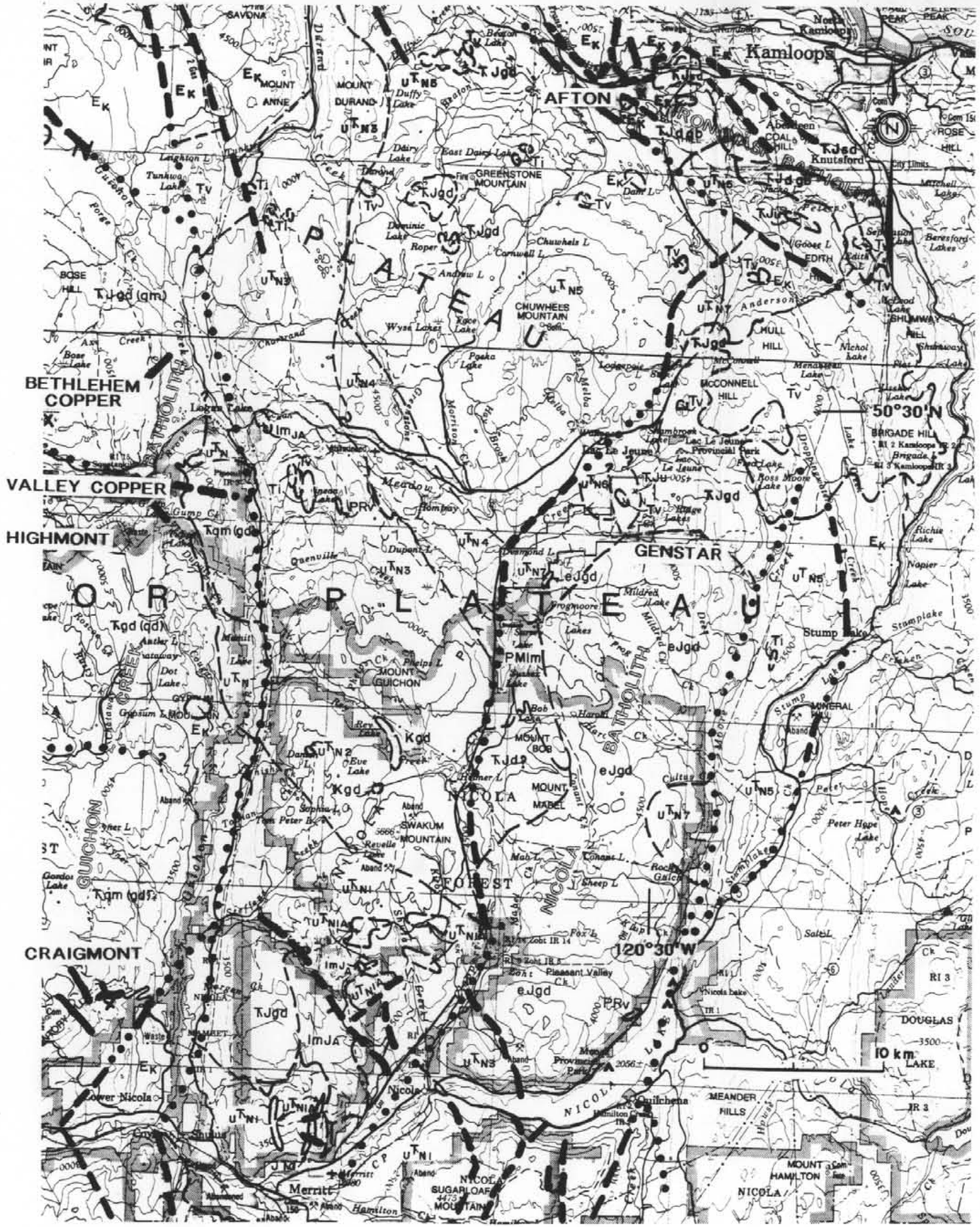
REGIONAL GEOLOGY (GSC O.F. 980, MAP 42-1989)

According to government maps, the Genstar property is in the Quesnellia Terrane and is primarily underlain by Nicola Gp. metavolcanic rocks. Regionally, the Nicola Gp. forms a broad, northerly belt of mainly subaerial, intermediate-mafic volcanic flow, breccia and pyroclastic rocks, and their metamorphosed equivalents. Lesser clastic sedimentary and acid volcanic rocks occur. To the west this volcanic belt is bounded by Triassic-Jurassic granodiorite and quartz monzonite of the Guichon Creek Batholith. The early Jurassic Nicola Batholith of similar composition marks the eastern boundary. Smaller intrusive bodies ranging in age from Triassic to Cretaceous, are scattered throughout the area. Compositions range from diorite to syenite with local occurrences of ultramafic rocks. Mafic-acidic Tertiary age volcanic rocks are also present.

Large scale, northwest to northeast trending faults dominate the region with lessor west to northwest transverse faults. Regional geology is shown on Figure 5.

According to government Minfile data, all but 10 of the 174 mineral occurrences in the region contain Cu. Vein and porphyry style mineralization dominate. The copper may occur alone or in combination with one or more of Au, Ag, Pb, Zn, Mo and lessor W, Fl and Hg. Mineral occurrences are shown on Figure 6 which also illustrates the strong association between intrusive rocks and mineralization. Rocks of the Guichon and Iron Mask Batholith are of particular importance.

Government aeromagnetic maps show one large subcircular, positive magnetic feature of moderate relief on the western half of the property and a northeast trending , positive linear feature of high relief in the east half of the property.



LEGEND

QUATERNARY

PRv — Basalt

TERTIARY

Tv — Basalt

Ti — Intermediate intrusive rocks

E_K — KAMLOOPS GP. Mafic-acid volcanic rocks, local sedimentary rocks

CRETACEOUS

Kgd — Granodiorite

JURASSIC & CRETACEOUS

lmJA — ASHCROFT FM. Sedimentary rocks

eJgd — Granodiorite, quartz monzonite

TRIASSIC & JURASSIC

TJgd,qm,qd — GUICHON CREEK BATHOLITH & similar rocks. Quartz monzonite, granodiorite, quartz diorite minor diorite

TJs,d,gb — IRON MASK BATHOLITH & similar alkaline intrusions. Syenite, diorite, gabbro

TJs,d,gb,u — Alkaline intrusions of uncertain age, partly coeval with Iron Mask Batholith. Syenite, diorite, gabbro, ultramafic

TRIASSIC

NICOLA GP.

uT_N — Undifferentiated

N1 — Mafic-acidic volcanic rocks, sedimentary rocks

N1a — Acidic volcanic rocks

N2 — Carbonate

N3 — Intermediate (augite-plagioclase) volcanic porphyry, sedimentary rocks

N4 — Pillowed basic flows

N5 — Volcanic (augite) porphyry, argillite

N6 — Sedimentary rock

N7 — Foliated diorite, amphibolite, metamorphic equivalents to N5 & N6

PALEOZOIC & MESOZOIC

IPMlm — Schist

Fault

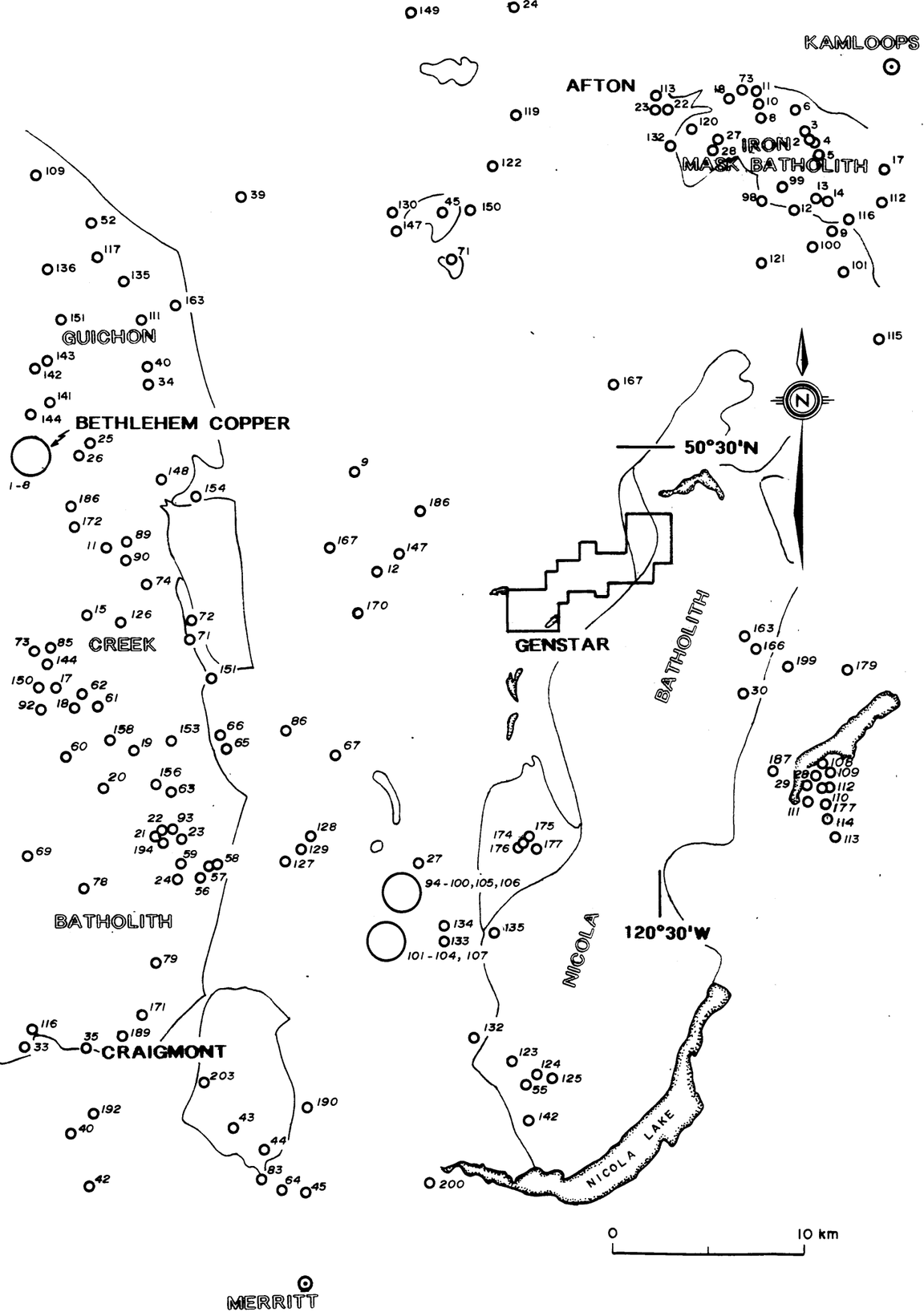
Geological contact

× Copper deposit

From GSC O.F. 980 & Map 42-1989

REGIONAL GEOLOGY

FIGURE 5



92 I NORTHEAST

2.	Python	Cu Ag Au Fl
3.	Orphan Boy	Cu Au Ag
4.	Noon Day	Cu Au Ag Mo
5.	Lost Chord	Cu Mo
6.	OK	Cu Au
8.	Lucky Strike	Cu Ag
9.	Windsor	Cu
10.	Iron Mask - Erin	Cu Au Ag Gy
11.	Larsen	Cu Au Ag
12.	Ajax	Cu Au Ag Mo
13.	Wheal Tamar	Cu Au Ag Mo
14.	Monte Carlo	Cu Au Ag
17.	Kimberly	Cu Au Ag
22.	Cliff Gift	Fe
23.	Afton - Pothook	Cu Au Ag Mo
24.	Copper King	Cu
25.	Glen Iron	Cu Au Ag
27.	Lonetree	Cu Fe Ag Au Mo
28.	Rainbow	Cu Ag Mo
34.	JB	Cu Mo
39.	Tunkwa Lake	Hg Sb Ag Cu
40.	Outrider 16	Cu
45.	Bruce	Cu Mo
52.	For	Cu
70.	Hansen	Hg
71.	TC Spur	Cu Mo
98.	Rogers	Cu Ag
99.	No. 7	Fe Cu
100.	Gold Plate	Pb Cu Ag Au
101.	Chance	Cu Pb Au
109.	Jo	Cu
111.	RM	Cu
112.	IM	Cu
113.	Afton - Dominion	Cu
115.	Mot	Cu (Au)
116.	Budd	Cu
117.	Pod	Cu
119.	Led 17	Cu Mo
120.	DM 62	Cu
121.	Tar	Cu
122.	Led 31	Cu Mo
130.	Rag 73	Cu Mo
132.	Karen	Cu
135.	WDR	Cu
136.	Lux	Cu
141.	Showing A	Cu Fe
142.	Showing B	Cu
143.	Showing C	Cu
144.	Lodge	Cu Mo Fe
149.	YR	Cu
150.	Ned	Cu
151.	Burl	Cu

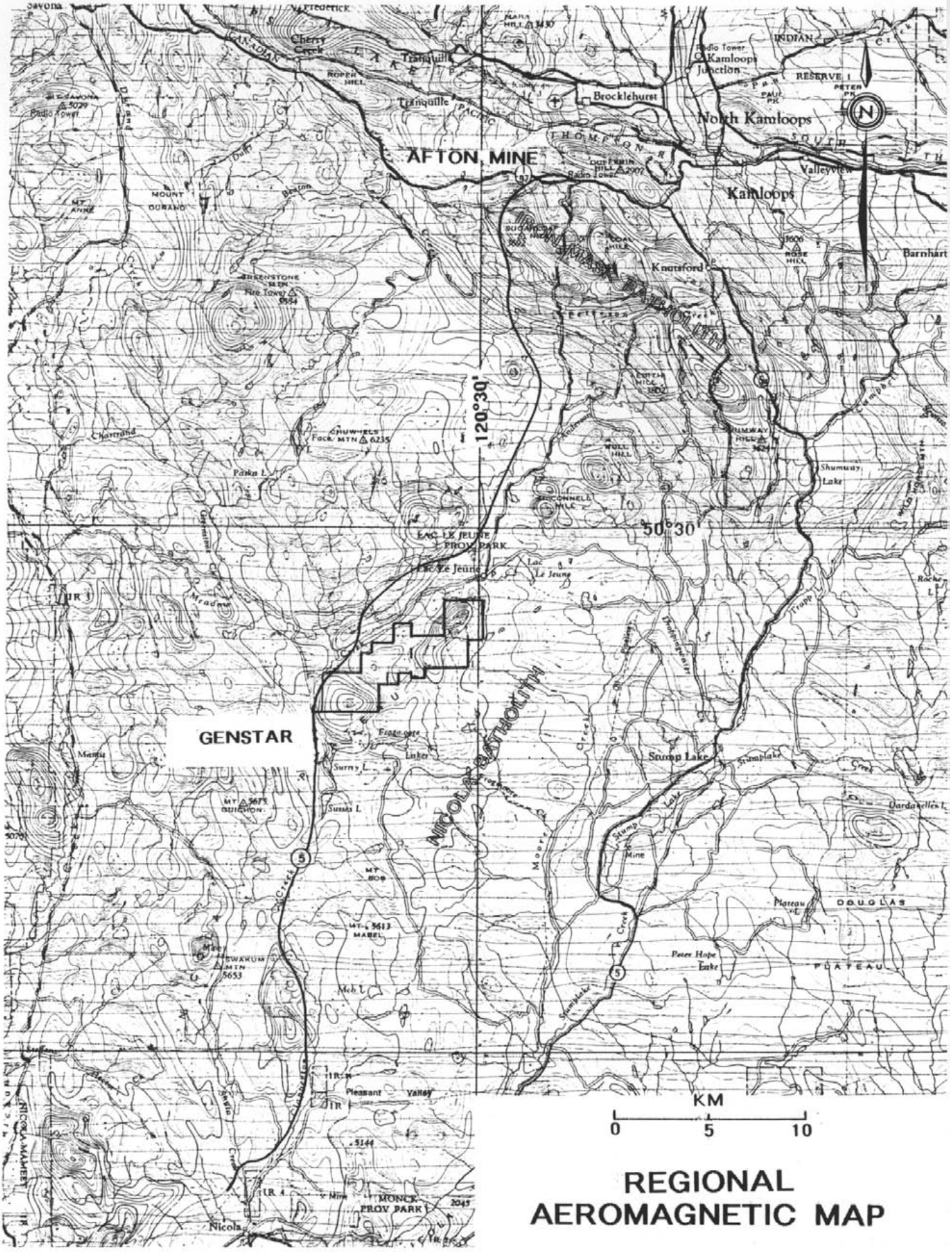
From B.C. EMPR. Minfile.

92 I SOUTHEAST

1.	Jersey	Cu Mo Au
2.	East Jersey	Cu Mo
3.	South Simons	Cu
4.	Huestis	Cu Mo
5.	Snowstorm	Cu Ag Mo Au
6.	Iona	Cu Mo
7.	White	Cu
8.	Spud Lake	Cu
9.	Ford	Cu Ag
11.	Jim 3	Cu Mo Ag
12.	Bertha - Molly	Cu Ag
15.	Bornite Ridge	Cu
18.	Jay 1	Cu
19.	Wiz 3, 5	Cu
20.	Sho	Cu
21.	Strike	Cu
22.	Rich	Cu
23.	Vimy	Cu Ag
24.	Aberdeen	Cu Ag Au
27.	Last Chance	Cu Pb Zn Au W
28.	Enterprise	Cu Pb Zn Ag Au W
29.	Planet	Cu Pb Zn
30.	Brite Star	Mo
33.	Marb 3	Cu Fe
40.	Arh	Cu Fe
43.	Rye	Cu Fe
44.	Justice	Cu Fe
45.	Chase	Cu Fe Zn Ag
47.	Mouse	Pb Cu
51.	Soo	Cu Fe Ag
55.	Copperado	Cu Ag U
56.	Manchester	Au
57.	HC A Fr.	Cu
58.	HC 36	Cu Fe
59.	Plymouth Queen	Cu Fe
60.	DJ	Cu
61.	Moon	Cu
62.	Sky	Cu
63.	Wiz 21, 30	Cu Mo Ag Au
64.	Val	Fe Cu
65.	Buck	Cu
66.	Blueberry	Cu
67.	Mad Arab	Cu Pb Zn Ag Au
71.	Rod	Cu Mo
72.	Fiddler	Cu Mo
74.	Ole	Cu Mo
78.	Pat	Cu
79.	Be	Cu
83.	Ell	Cu
85.	Lem	Cu
89.	Jericho 18, 20	Cu Mo
90.	Gnat 2 Fr.	Cu Mo
91.	Malachite Hill	
92.	Jay II	Cu
93.	Wiz 47	Cu
94.	Old Alameada	Cu Pb Zn Au Ag
95.	Old Alameada 1	Cu Zn
96.	Old Alameada 2	Cu Pb
97.	Old Alameada 3	Pb Zn Cu Au
98.	Old Alameada 4	Cu Pb Zn
99.	Old Alameada 5	Ag Pb
100.	Old Alameada 6	Cu Au Bi Te
101.	Thelma	Ag Pb Zn Au Cu
102.	Bernice	Ag Pb Zn Au Cu
103.	Old Evelyn	Pb Ag Zn Au
104.	Old Corona 1	Ag Pb Zn Cu Au
105.	Gloria 1	Cu Au Ag
106.	Gold Gossan 2	Cu Ag Pb W
107.	Old Corona 2	Pb Zn Cu
108.	Tubal Cain	Au Ag Cu Pb Zn
109.	Joshua	Au Ag Cu Pb Zn W
110.	King William	Au Ag Cu Pb Zn
111.	Silver King	Au Ag Cu Pb Zn
112.	Emulator	Au Ag Cu Pb Zn W
113.	Moon	Au Ag Cu Pb Zn W
114.	Raven	Au Ag Cu Pb Zn W
116.	Marb 4	Cu Fe
122.	Ralph	Cu Fe
123.	Copperado (P66)	Cu
124.	Copperado (A6)	U
125.	Copperado (TM)	Cu Ag Mo
126.	Ole - Pat	Cu Mo
127.	103 Zone	Zn Pb
128.	Sunshine II	Zn Pb Cu Ag
129.	Sunshine	Zn Pb Cu Ag
130.	Chatko	Cu Fe
131.	Iron King	Fe
132.	Peacock	Cu Ag Au
133.	AC	Au Ag Cu
134.	A	Au Ag
135.	Coke	Cu Fe
143.	Nik	Cu
144.	Pen	Cu
147.	JHC	Cu Ag
148.	NYE	Cu
150.	Yubet	Cu
151.	MLM	Cu
153.	TDM	Cu
154.	Wendy	Cu
155.	Plug	Au Ag Cu Pb Zn
158.	Chataway Lake	Cu
163.	Sar	Cu
166.	Sack	Au Cu Mo
167.	SA	Cu
170.	Pom Pom	Cu
171.	JUA	Cu
172.	IND	Cu
174.	Clap 5	Cu Mo
175.	Clap 8	Cu
176.	Clap 3	Cu
177.	Marion C Fr.	Ag Pb Zn
179.	Redbird	Au Ag Fl
181.	BR 1	Cu Fe
185.	BR 3	Cu Fe
186.	Joe	Cu
187.	Gert	Ag Cu
189.	Laron	Cu
190.	Magna Copper	
192.	Etta	Cu
194.	Caper	Cu
199.	Ulla	Cu
35.	Craigmont	Cu Fe Au Ag

MINERAL OCCURRENCE MAP

FIGURE 6



From Ashcroft, Map 7271G

REGIONAL AEROMAGNETIC MAP

FIGURE 7

EXPLORATION HISTORY AND PREVIOUS RESULTS

Mineral Inventory maps show no mineral occurrences in the immediate vicinity of the Genstar property. Work on Cu showings occurring 8 to 12 km to the northwest, dates to 1929. In a 1972 assessment report on the Des claims, C. Lammle states that the Meadow Creek area was not seriously explored during the Highland Valley boom.

Seven properties on and adjacent to the Genstar property have been the focus of recent exploration. Property boundaries and highlights of results are shown on Figure 8.

Earliest recorded assessment work dates to 1972 when three properties were explored for Cu. Rio Sierra Developments conducted soil and ground magnetic surveys on a 30 km grid on their Ram claims in the central portion of the current Genstar property. Moderate to strongly anomalous Cu (maximum 1200 ppm) was found over a 4 sq. km area. Background was 40 ppm. No further work was recorded and the claims lapsed. Texada Mines conducted I.P., ground magnetic and soil surveys over their Plug claims immediately north of Genesis 5. Minor galena, sphalerite and chalcopyrite was found in quartz-mariposite schist. Follow-up percussion drilling tested chalcopyrite mineralization in a 30 m thick, pyritic quartz-feldspar sill but failed to find significant mineralization and the claims expired. Since 1972, the Des property has been subjected to various soil and geophysical surveys. In 1989, 2040 m of diamond drilling was completed. Native Cu is reported in core and in at least one surface exposure. Highest assay values reported are 2.9% Cu in hole 89-2 and 1.41 g/t Au in hole 89-4. A massive sulfide showing consisting mainly of chalcopyrite and bornite in a quartz-carbonate gange was observed in one surface exposure. The Des claims are west of Genstar 5 and are currently held in good standing by C. Boitard.

In 1977, Bethlehem Copper drilled 6 percussion holes totalling 310 m to test I.P. anomalies on their Jas claim. Drilling encountered schist and hornfelsed argillite with heavily pyritized sections reported locally. Inaccessability prevented drill testing of a Cu soil anomaly coincident with a magnetic low. No additional work was recorded and the claims lapsed. The Jas 1 claim was south of the former Ram claims.

Western Resource Technologies restaked the WRT claims over the old Plug showings. Reevaluation of the area by VLF-EM, ground magnetic and soil surveys was completed in 1988. Maximum values of 121 ppm Cu and 700 ppb Au were found in soil samples. A portion of the property remains in good standing.

On the Parl claim, VLF-EM and ground magnetic surveys conducted by Gold Parl Resources on a 20 km grid in 1988, outlined an intrusive-volcanic contact. Results were deemed inconclusive and although additional work was recommended, the claims were allowed to expire. The Parl property covered a portion of the current Genstar 5.

Immediately south of Parl, Luken Resources completed VLF-EM, ground magnetic and soil surveys over a 36 km grid on their Luk property in 1988. Geophysical surveys outlined an intrusive-volcanic contact and 21 EM conductors with predominant northwest and east-west trends. Maximum Cu found in soil samples was 372 ppm while the best Au value was 40 ppb. The results were deemed inconclusive and the claims have expired.

WRT

1988 VLF, MAG., Soil Surveys

Reevaluation of PLUG anomalies. Maximum Cu = 121 ppm. Maximum Au = 700 ppb.

Total samples collected = 289

16 km Grid (Meadow Creek)

WESTERN RESOURCE TECHNOLOGIES
A.R. 17337

50°27'N

120°38'W

50 Au (ppb)

615 Au (ppb)

700 Au (ppb)

300 Au (ppb)

7 m.s.

BASELINE ON

To Kamloops

MEADOW CREEK

PLUG PROPERTY BOUNDARY

DES PROPERTY BOUNDARY

WRT PROPERTY BOUNDARY

DESMOND LAKE

HIGHWAY

BASELINE 500 S

Cu

PLUG (expired)

1972 I.P., MAG., Soil Surveys

- *100 - 143 ppm Cu*

Total samples collected = 268

16 km Grid

Outlined diorite intruding volcanics and quartz feldspar porphyry, cut by granite porphyry sill. Minor galena, sphalerite and chalcopyrite in quartz mariposite schist. Drilling tested 30m thick pyritic quartz feldspar porphyry sill hosting minor chalcopyrite. No assays. I.P. chargeability increases with depth.

8 Percussion drill holes, 427m

TEXADA MINES
A.R. 4041, 4042

RAM (expired)

1972 Soil Survey

- ≥ *500 ppm Cu*
- *350 - 499 ppm Cu*
- *250 - 349 ppm Cu*
- *100 - 249 ppm Cu*

Total samples collected = 522

RIO SIERRA DEVELOPMENTS
A.R. 4222

1200 Cu

RAM PROPERTY BOUNDARY

N

0 1000 2000 m

DES

1989 Diamond Drilling

Native copper reported in drill core and in at least one surface exposure.

7 Drill holes, 2046 m

MENIKA MINING
A.R. 19140

To Merritt

COQUIHALLA

PARL (expired)

1988 VLF, MAG. Surveys

Outlined intrusive-volcanic contact and inferred shears.

20 km Grid

GOLD PARL RESOURCES
A.R. 18563

PARL CLAIM BOUNDARY

JAS 1 (expired)

1977 Percussion Drilling

Tested coincident copper anomaly — magnetic low, and I.P. anomalies. No drilling directly on soil anomaly due to inacessability. Outlined schist and hornfelsed argillite with heavy pyrite locally.

6 Drill holes, 310 m

BETHLEHEM COPPER
A.R. 6338

JAS 1 CLAIM BOUNDARY

LUK (expired)

1988 VLF, MAG., Soil Surveys

- *350 - 499 ppm Cu*
- *250 - 349 ppm Cu*
- *100 - 249 ppm Cu*

Total samples analysed = 220

36 km Grid

Outlined intrusive-volcanic contact and 21 EM conductors with predominate NW and EW trends.

LUKEN RESOURCES
A.R. 18274

LUK CLAIM BOUNDARY

372 Cu

BASELINE ON

40 Au (ppb)

FROGMOORE LAKES

GENSTAR PROPERTY
HISTORICAL ASSESSMENT DATA

FIGURE 8

PROPERTY GEOLOGY

General: Genstar is underlain by a (meta)volcano-sedimentary assemblage of Triassic-Jurassic age Nicola Gp. rocks which have been disrupted by a variety of intrusive dykes, sills(?) and small apophyses having compositions ranging from ultramafic to alkaline granite. Only exposures encountered on the west half of the property have been examined in any detail. Geology is plotted on Figure 9 (back pocket).

Lithogy: **Nicola Gp.** volcanic rocks have been divided into three main groups. Maroon and green andesite-basaltic flows and pyroclastic rocks occur near Desmond Lake in the west. A central zone is dominated by foliated intermediate rocks varying texturally from volcanic to subvolcanic to fine grained intrusive equivalents. Foliation trends northwesterly with moderate to steep southwesterly dips. An assemblage of fairly massive, intermediate volcanic tuffs and flows is located in the northeast section of the map area.

The Clapperton Fault, which is the northern extension of the large scale Coldwater Fault near Merritt, trends northeast across the western edge of the claims. It forms the boundary between maroon-green volcanic and foliated volcanic rocks.

Although the central area is predominantly weakly to strongly foliated, nonfoliated rock types occur locally. Field observation estimated composition of nonfoliated rocks to be andesite and and dacite but later feldspar staining found latite and rhyolitic varieties to be also present. As relatively few "dacite" specimen were collected and stained, felsic alkaline varieties are probably more widespread than current mapping indicates. Relationships between foliated and nonfoliated rock units are not always readily apparent. Some nonfoliated varieties occur as dykes and possibly sills, some appear to be alteration zones

proximal to felsic intrusions, while others may represent compositional variation within the volcanic pile

Intrusive rocks and their finer equivalents were only observed east of Clapperton Fault. Trends of dykes vary from northwest to northeast and commonly transect foliation. Relationship to bedding is unknown. Within the central area of foliated rocks, compositions ranged from diorite to alkaline granite. Further northeast, where nonfoliated volcanic rocks dominate, diorite is most common with lesser quartz diorite. Quartz monzonite and more alkaline varieties were rarely noted. Majority of contacts are obscured by overburden. They appear to be fairly sharp between volcanic rocks and felsic alkaline intrusive rocks but can be broadly gradational between dioritic varieties and their volcanic host. Difficulty was encountered in classifying outcrops as dioritic contact zones which would indicate intrusive activity or as andesitic subvolcanic units within the volcanic pile. In several locations hybridized zones of volcanic rocks with patchy, irregular and varibly distinct to indistinct intrusive textures were observed.

A number of highly silicous. leucocratic volcanic and fine grained intrusive rocks occur locally west of Clapperton Fault. Those occurring as small discontinuous pods and pockets from 1 to 3 sq. m in area are thought to represent high level seepage zones which caused strong to intense bleacheing and silicification of the volcanic host. In the southeastern portion of the map area is a small subcircular zone of fine grained, leucocratic biotite granite-alkaline granite proximal to a quartz monzonite dyke. This occurrence may represent a partially unroofed, high level alkaline stock which is compositionally similar to rocks of the Iron Mask Batholith. In the northeast portion of the map area, similar leucocratic exposures have compositions equivalent to quartz diorite and alkaline granite. Spatial relationship of these exposures suggests a northwest linear trend with a maximum width of 3 m.

Rare occurrences of gabbro and amphibolite were encountered locally.

Detailed rock unit descriptions are presented in Appendix III.

Mineralization:

Nicola Gp: Minor disseminated pyrite (trace to 1%) is common in rocks west of Clapperton Fault and in the foliated volcanic rocks. In the northeast portion of the map area, pyrite occurs only locally in trace amounts, is rarely up to 3% and is conspicuously absent from most exposures. When present, it is often associated with epidote fracture-fillings or stringers. A local float sample (93G-28R) of strongly oxidized, massive andesite with 15% pyrite is the only significant occurrence of sulfide mineralization found. Pyrite was rarely present in any quartz veins or stringers.

Intrusive Rocks: Trace amounts of disseminated pyrite is generally present.

Alteration:

Nicola Gp: Chloritization is ubiquitous, occurring as weak to moderate and locally strong alteration of mafic minerals and/or fracture-fillings. Epidote is commonly present in stringers (2.5 cm), fracture-fillings and locally as weak to strong, pervasive alteration with or without obvious fracture association. Massive epidote, ±garnet occurring as lenses, pods and irregular patches are found east of Clapperton Fault. At several occurrences in foliated andesite, epidote stringers predate quartz fracture-fillings and stringers. Saussuritization of feldspar is commonly present. It varies from weak to moderate and from pervasive throughout the host to restricted to individual grains. Carbonate alteration is only found locally as sparse calcite fracture-fillings and as a feldspar alteration

product. Within foliated rocks, moderately to strongly bleached areas occur as pods and patches, 1 to 3 sq. m in area and in linear zones up to 1 m wide. They are variably light grey, buff and /or bluish grey. A remnant felted or foliated texture may be preserved locally. Pervasive silicification within these zones is locally strong to intense. Moderate sericitization and/or potassium feldspar fracture-fillings are found locally. Within bleached zones and elsewhere in foliated volcanic rocks, quartz is found as sparse fracture-fillings, tension gashes, discontinuous veins (5 cm) and more rarely as weak stringer stockworks. Direct association of bleached-silicified zones and intrusions is apparent along a 10 m wide biotite quartz monzonite dyke in the southeast portion of the map area. Within nonfoliated volcanic rocks in the northeast part of the map, sparse quartz stringers, hairline fracture-fillings and lesser lenses occur. Bull quartz float (vein?) up to 20 cm wide was found locally. West of Clapperton Fault quartz was rarely encountered. Fresh, black biotite was found in one exposure of foliated volcanic rocks. Potassium feldspar as fracture-fillings was noted at three localities east of Clapperton Fault. Within foliated rocks these fractures transect foliation. As relatively few specimen were collected for staining, potassium feldspar alteration may be more widespread than current mapping indicates.

Intrusive Rocks: Alkaline intrusive varieties with compositions ranging from quartz monzonite to alkaline granite and their aphanitic equivalents tend to be quite fresh. Alteration is limited to weak, moderate and very locally strong chloritization of biotite. Occurrences of diorite and quartz diorite are commonly weak to moderately altered. Chloritization is weak to moderate and pervasive. Mafic minerals are strongly removed locally where chloritization is strong to intense. Saussuritization is weak, pervasive, with local variations to

moderate intensity. In some occurrences it is found only along epidote stringers. Carbonate was only found as discontinuous fracture-fillings in a quartz diorite quartz-eye porphyry. Potassium feldspar fracture-fillings were found at two localities. Sparse quartz stringers and fracture-fillings were observed in one exposure. Muscovite and sericite fracture-fillings were found locally in a dacite dyke.

Geochemistry: Three silt samples collected in 1993 returned values of greater than 100 ppm Cu. The highest value of 262 ppm Cu was accompanied by 250 ppm Zn. Two silt samples collected during staking returned geochemically anomalous tungsten but only one had greater than 100 ppm Cu. Only one rock sample yielded results of particular interest. The sample or rusty andesite with 15% pyrite (93G-28R) ran 4086 ppm Cu, 50 ppb Au, 2.4 ppm Ag, 16 ppm Sb and 13 ppm Bi. It is important to note that no other sample contained more than 1% pyrite. Sampling was biased toward altered material and in particular, occurrences of silicification. Sample locations and significant results are plotted on Figure 9 (back pocket).

GEOPHYSICS

Regional Magnetics: The Quesnellia Terrane is a magnetically active region due to the variable magnetite content of the crystalline rocks. Volcanic units consist of mainly basalts with some andesites and olivine basalt. Intrusives ranging from small, simple stocks to large multiphase batholiths range in composition from intermediate diorites and syenites to mafic gabbros and occasionally ultramafic pyroxenites. These intrusives are scattered as irregular bodies and comprise from 15 to 25 percent of the Quesnellia Terrane.

The intrusives usually contain substantially higher concentrations of magnetite than the volcanics. Within the intrusive units, alkalic phases such as syenites and highly mafic phases generally contain more magnetite than dioritic phases. It is these features which give the Quesnellia Terrane the active magnetic background with numerous sub-rounded to oblong magnetic highs. (See Figure 7)

Porphyry copper-gold deposits are known to exist throughout the Quesnellia Terrane. Most of these are related to intrusives and many are known to be associated with strongly magnetic syenite phases.

Exploration activity increased substantially in the Afton Mine area south of Kamloops in early 1992. The "Star" claims were staked to cover a 5 kilometer long, northeasterly trending magnetic anomaly while the "Genesis" claims cover known copper soil anomalies and an adjacent sub-circular magnetic high approximately 3 kilometers in diameter (See Figure 10). Both magnetic anomalies are considered to be caused by intrusive stocks.

Property Magnetics:

(a)Instrumentation, Survey Lines and Purpose of Survey:

In July of 1992, two long reconnaissance magnetic survey lines totalling 4.4 km in length were completed on the Dark Star and Ripple claims.

The instrument used was a Scintrex MP-2 Proton Precession Magnetometer with an accuracy level of 10 gammas. The instrument was set at a base level of 55000 gammas to give the best operating range in the area. Both lines were run along existing tracks in the area using a hip chain to measure distances between stations. Line A-B was run sub-parallel to the western margin of the 5 km long anomaly at 200 m station spacings while line C-D was run southeasterly at 100 m station spacing, normal to the trend of the anomaly and within one kilometer of the highest level read by the aeromagnetic survey. This line crossed the entire aeromagnetic anomaly with background values read on each side. (See Figure 10)

The purpose of reading line A-B was to check for structural features crossing the anomaly while line C-D was read to determine the intensity, nature and dip of the causative source. The base station at point A and C of each line was re-read 3 hours after the first reading, however as the variation was minimal compared to variations along line C-D, no diurnal corrections were made.

(b)Interpretation of Line A-B

A profile of the magnetic values is shown in Figure 11. As expected, this line was magnetically quite flat with most variations being less than 200 gammas. At station 3, however, a sharp drop over 500 gammas was encountered. As overburden was pervasive in this area, no explanation could be determined from outcrop for this drop. This low value, however, is very close to a small creek crossing northwesterly through the

magnetic anomaly. It is therefore likely that this creek is the manifestation of a shear zone or wide fault which has destroyed much of the existing magnetite. This could well be part of a major northwesterly structure trending through the region.

(c)Interpretation of line C-D:

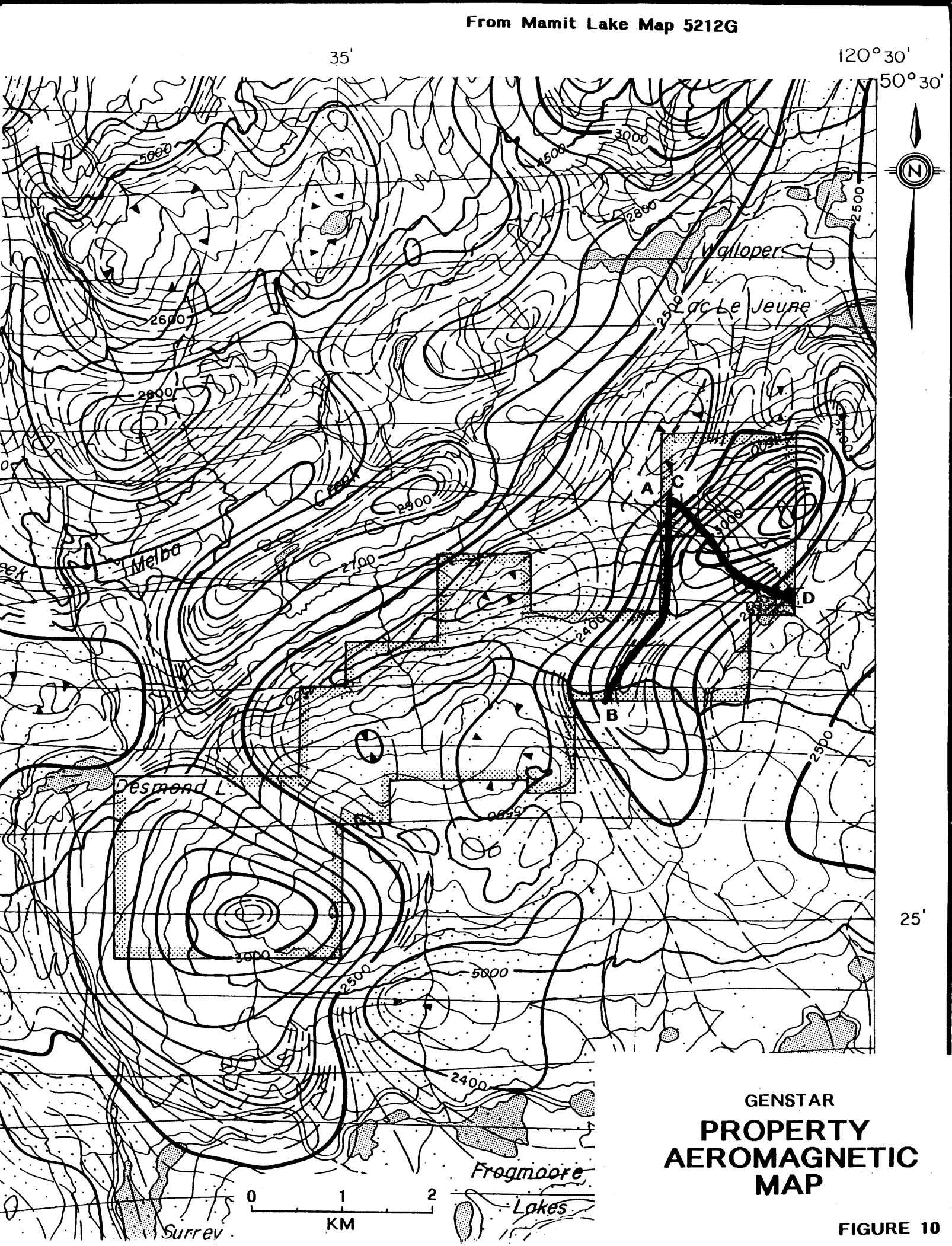
A profile of the magnetic values is shown in Figure 12. The magnetic readings along this line appear to show the nature of the causative body. Background values between 56500 and 56750 gammas were read on each end of this line.

The magnetic anomaly, however, stands out sharply. A double peaked anomaly is indicated with values 1500 and 4000 gammas above background. The source of this anomaly appears to be approximately 700 metres wide between stations 10 and 17. A steep easterly dip of 80-85° is indicated by the small 300 gamma negative value read at station 9.

The main anomaly appears to be caused by two magnetic lobes with the eastern one containing substantially more magnetite. Ground examination of low scattered outcrops between stations 14 and 17 confirmed the presence of syenitic and dioritic intrusive with abundant magnetite. Fractures with chlorite-epidote alteration were noticeable, sulfide content was less than one percent pyrite with trace chalcopyrite.

(d)Conclusions of Magnetic Survey Results:

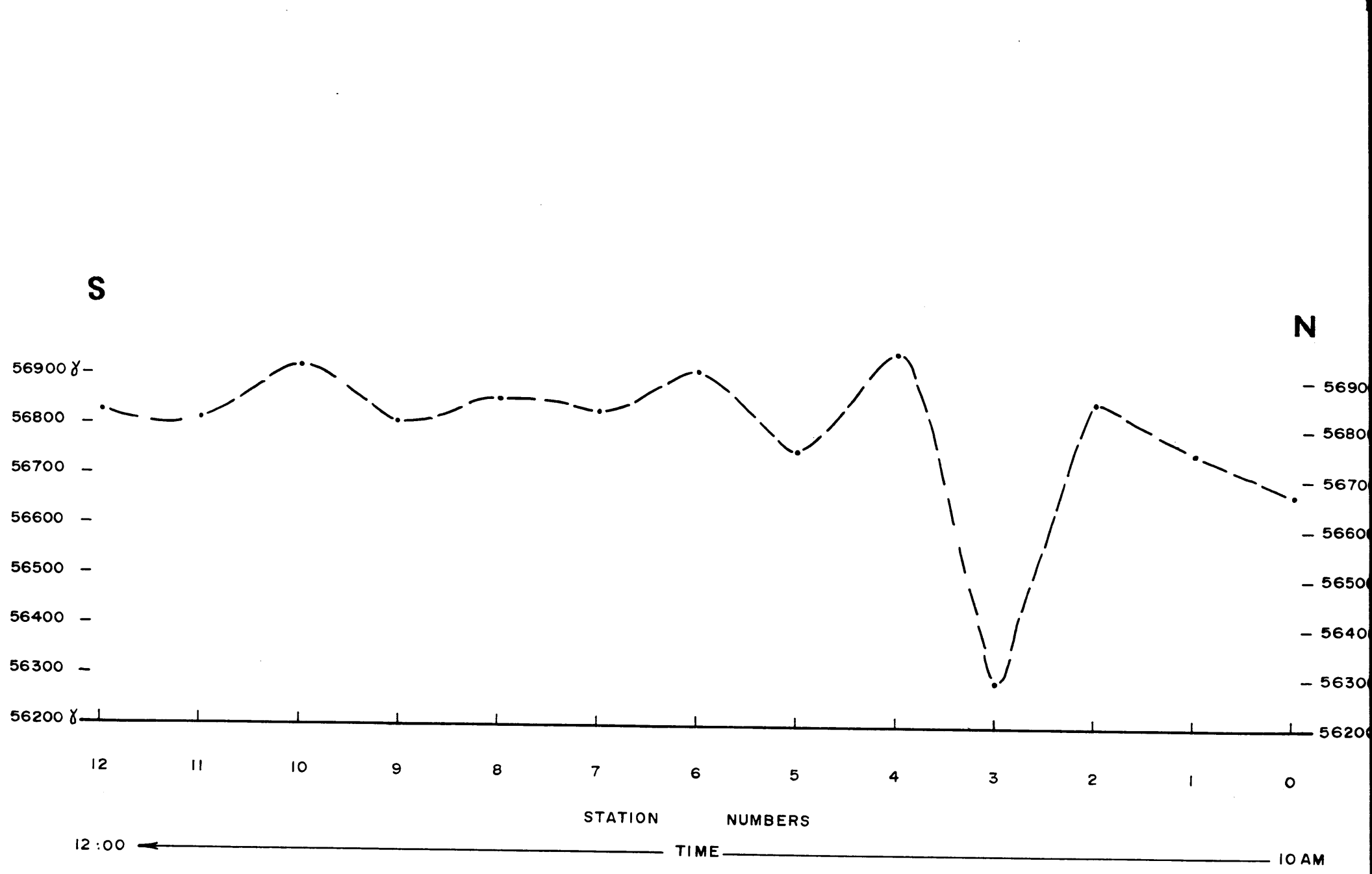
The two long magnetic traverse lines of the "Star" claims confirmed the presence of the aeromagnetic anomally and identified part of the causative source as an intrusive complex with variable magnetite content. The 4000 gamma peak on line C-D indicates that the absolute magnetic peak one kilometer to the northeast may be much stronger. The magnetic low on line A-B indicates a possibly strong northwesterly structure. Detailed magnetic work is required in this area to show the full complexity of this anomaly.



GENSTAR

PROPERTY AEROMAGNETIC MAP

FIGURE 10

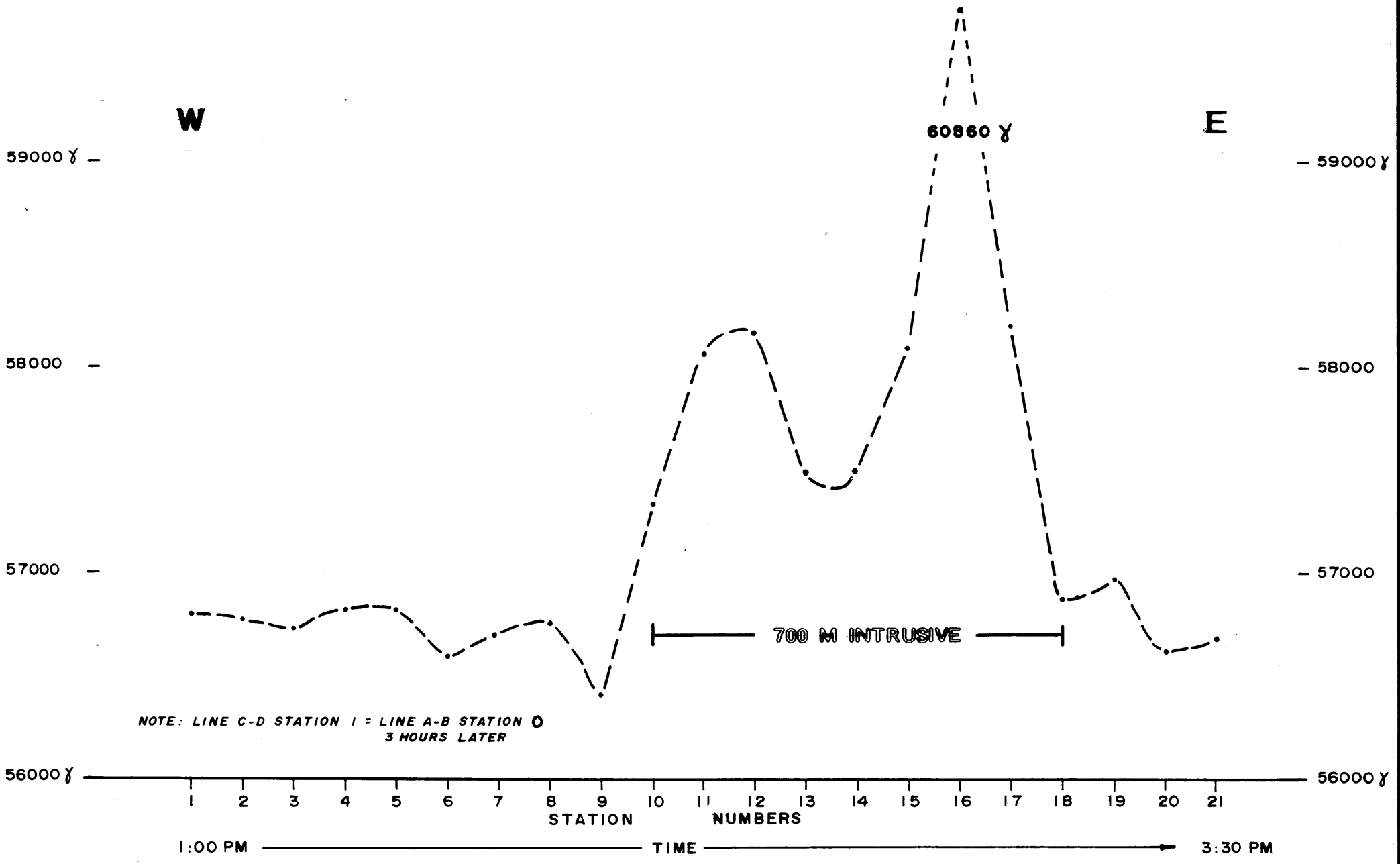


Horizontal Scale 1cm = 100 m

Vertical Scale 1cm = 100 γ

MAGNETIC PROFILE LINE A-B

FIGURE 11



Horizontal Scale 1 cm = 100 m

Vertical Scale 1 cm = 250 γ

MAGNETIC PROFILE LINE C-D

FIGURE 12

SELECTED BIBLIOGRAPHY

Elwell J.P. 1973: Geochemical and Magnetometer Survey, Ram Claim Group, MPR Assessment Report 4222

Kim H. 1989: Diamond Drilling Program on the Des Claims, EMPR Assessment Report 19140

Lammle C. 1972 Geochemical Report on the Des 1-98 Mineral Claims, MPR Assessment Report 4057

Laroth Engineering Ltd. 1889: Geochemical, VLF-EM and Magnetometer Surveys on the Luk #1 Mining Claim EMPR Assessment Report 18274

MacQuarrie D., and Boitard C. 1984: Geophysical Report on a Induced Polarization Survey, Des Claims, EMPR Assessment Report 13302

MacQuarrie D. 1981: Geophysical Report on a Induced Polarization Survey, Des Claims, EMPR Assessment Report 9854

Mark D. 1980: Report on Magnetometer and VLF-EM Surveys, Des Mineral Calims EMPR Assessment Report 8032

Monger, J., and MacMillan W. 1989: Geology, Ashcroft, British Columbia, G.S.C. Map 42-1989, Sheet 1

Nordin G, and DeLeen J. 1972: Magnetometer and Geochemical Report on the Plug Claims, MPR Assessment Report 4041

Scott A. 1972: Induced Polarization Survey of the Plug Claims, MPR Assessment Report 4042

VenHuizen G. 1989: VLF-EM and Magnetometer Surveys on the Parl #1 Mining Claim, EMPR Assessment Report 18563

APPENDIX I

Claim Affidavits

309736 84987

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 4 POST CLAIM - MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____, 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 4 POST CLAIM

I, L. GREXTON (NAME OF LOCATOR) AGENT FOR self (NAME)

920 EAST 28th AVE (ADDRESS)

VANCOUVER B.C

879-4342 (TELEPHONE) V5V-2P2 (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381

FMC CODE _____

AGENT FOR _____ (NAME)

ADDRESS _____

TELEPHONE _____ POSTAL CODE _____

VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____

hereby apply for a record of a 4 post claim for the location as outlined on the attached copy of mineral titles reference map No. 92I/7E in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the legal post location.

Via Coquihalla Highway North of Merritt to within 0.5 km of Desmond Lake

Legal corner post on East Shore of Desmond Lake, south of the outlet tributary of Meadow Creek

TAG INFORMATION

I have securely fastened the metal identification tag embossed "LEGAL CORNER POST" to the legal corner post (or witness post*) and impressed this information on the tag:

LEGAL CORNER POST P17.

TAG NO. 227750 RE

CLAIM NAME GENESIS 5

LOCATOR L. GREXTON

FMC NO. 110381

AGENT FOR self

FMC NO. _____

DATE COMMENCED May 17 1992

TIME 935 am

DATE COMPLETED May 18, 1992

TIME 10:30 am

NUMBER OF CLAIM UNITS

N ____ S 4 E 5 W ____

IDENTIFICATION POSTS NOT PLACED

were _____

because ALL PLACED

*If a witness post was placed for the legal corner post:

Bearing from witness post to true position of legal corner post is _____ degrees,

at a distance of _____ metres.

Bearing from identifiaction post to witness post _____ degrees, at a distance of _____ metres.

NOTE: Legal corner post can be witnessed only if it was not feasible to place **any** posts.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 4 post claims and have attached a plan of the location on which the positions of the legal corner post and all corner posts (and witness and identification posts if applicable) are indicated.

L Grexton

Signature of Locator

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.

309745

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. ______ RECORD NO. ______

MINING RECEIPT NO. ______ RECORDED AT ______ B.C. DATE OF RECORD ______ 19 ___

DO NOT WRITE IN THIS SHADED AREA ______ GOLD COMMISSIONER ______ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L. GREXTON (NAME) AGENT FOR self (NAME)

920 EAST 28th AVE (ADDRESS) ______ (ADDRESS)

VANCOUVER B.C

879 4342 (TELEPHONE) V5V-2P2 (POSTAL CODE) ______ (TELEPHONE) ______ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. ______

FMC CODE ______ FMC CODE ______

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92 I/7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

Via Coquihalla Highway North of Merritt to within 0.5 km of Desmond Lake

Initial Post 1500 m N of intial Post of Genesis 6

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644341 M
INITIAL POST (NO. 1)

CLAIM NAME GENESIS 9

LOCATOR L. GREXTON

AGENT FOR self

DATE COMMENCED MAY 17 1992

TIME COMMENCED 6:30 pm

DIR. TO NO. 2 POST N

METRES TO RIGHT 500

METRES TO LEFT ______

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644341 M
FINAL POST (NO. 2)

CLAIM NAME GENESIS 9

LOCATOR L. GREXTON

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED MAY 17 1992

TIME COMPLETED 7:00 pm

*If witness post placed for final post:

Bearing to true position of final post [struck out] N/A.

distance [struck out] metres. YR

S

SUB-RECORDER RECEIVED JUN - 4 1992 M.R. # 1 $ 240 VANCOUVER, B.C. Am June 5/92

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

[signature]

309737

84987

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 4 POST CLAIM - MINERAL TENURE ACT

SECTION 23

P NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____, 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 4 POST CLAIM

I, L. GREXTON (NAME OF LOCATOR) AGENT FOR SELF (NAME)

920 EAST 29th AVE (ADDRESS) _____ (ADDRESS)

VANCOUVER, B.C _____

879 4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 4 post claim for the location as outlined on the attached copy of mineral titles reference map No. 92I 7E in the KAMLOOPS Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the legal post location.

Via Coquihalla Highway North of Merritt to within 0.5 km of Desmond Lake; on the east side of the highway LCP is the Corner Post 0.5 SE of Genesis 5

TAG INFORMATION

I have securely fastened the metal identification tag embossed "LEGAL CORNER POST" to the legal corner post (or witness post*) and impressed this information on the tag:

LEGAL CORNER POST

TAG NO. 227751 #

CLAIM NAME Genesis 10

LOCATOR L. GREXTON

FMC NO. 110381

AGENT FOR self

FMC NO. —

DATE COMMENCED May 22 1992

TIME 930 am

DATE COMPLETED May 22 1992

TIME 845 pm

NUMBER OF CLAIM UNITS

N 2 S _____ E 3 W _____

IDENTIFICATION POSTS NOT PLACED

were _____

because ALL PLACED

*If a witness post was placed for the legal corner post:

Bearing from witness post to true position of legal corner post is _____ degrees,

at a distance of _____ metres.

Bearing from identifiaction post to witness post _____ degrees, at a distance of _____ metres.

NOTE: Legal corner post can be witnessed only if it was not feasible to place **any** posts.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 4 post claims and have attached a plan of the location on which the positions of the legal corner post and all corner posts (and witness and identification posts if applicable) are indicated.

_____

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240-
VANCOUVER, B.C.

309746

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. GREXTON (NAME) AGENT FOR self (NAME)

920 EAST 28th AVE (ADDRESS) _____ (ADDRESS)

VANCOUVER, B.C. _____

879-4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110 381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92I7E, in the KAMLOOPS Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

Via Coquihalla Highway to within 0.5 km of Desmond Lake; Initial Post on East side of highway E is the post common to LCP of Genesis 10

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644343M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 11

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED MAY 22 1992

TIME COMMENCED 925 am

DIR. TO NO. 2 POST N

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644343M
FINAL POST (NO. 2)

CLAIM NAME Genesis 11

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED MAY 22 1992

TIME COMPLETED 10 25 am

*If witness post placed for final post:

Bearing to true position of final post _____,

distance _____ metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 245
VANCOUVER, B.C.
RMS June 5/92.

309747

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

1AP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

_____ GOLD COMMISSIONER _____ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L. GREXTON (NAME) AGENT FOR self (NAME)

920 EAST 28th Ave (ADDRESS) _____ (ADDRESS)

VANCOUVER, B.C. _____

879-4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92 I 7E, in the KAMLOOPS Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

Via Coquihalla Highway to within 0.5 km of Desmond Lake Initial Post 500 m north of LCP of Genesis 10 on the East side of highway

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed "INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644344M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 12
LOCATOR L. Grexton
AGENT FOR self
DATE COMMENCED MAY 22 1992
TIME COMMENCED 1030 am
DIR. TO NO. 2 POST N
METRES TO RIGHT _____
METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed "FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644344M
FINAL POST (NO. 2)

CLAIM NAME Genesis 12
LOCATOR L. Grexton
AGENT FOR self
DIST. FROM NO. 1 POST 500 M
DATE COMPLETED MAY 22 1992
TIME COMPLETED 11:10 am

*If witness post placed for final post:
Bearing to true position of final post N/A,
distance N/A metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS-June 5/92

309748

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver B.C. _____

879-4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92I 7E, in the Kamloops Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

Via Coquihalla Highway to within 0.5 km of Desmond Lake. Initial Post on East side of highway 1000 m north of LCP for Genesis 10

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644345M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 13

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 11:15 am

DIR. TO NO. 2 POST N E

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644345M
FINAL POST (NO. 2)

CLAIM NAME Genesis 13

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 m

DATE COMPLETED May 22 1992

TIME COMPLETED 12:00 noon

*If witness post placed for final post:

Bearing to true position of final post N/A,

distance N/A metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS-June 5/92

309749

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver, B.C

879 4342 (TELEPHONE) V5V-2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

F.M.C. CODE _____ F.M.C. CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92 I 7E, in the Kamloops Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

ACCESS

via Coquihalla Highway North of Merritt to within 0.5 km of Desmond Lake; Initial post on east side of highway ~~to~~ Initial post 500 m E of initial Post of Genesis 13

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644346 M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 14

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 1205 pm

DIR. TO NO. 2 POST East

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644346 M
FINAL POST (NO. 2)

CLAIM NAME Genesis 14

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 140 pm

*If witness post placed for final post: N/A

Bearing to true position of final post ~~_____~~ .

distance ~~_____~~ metres.

N/A

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
AMS-June 5/92

309750

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

_____ GOLD COMMISSIONER _____ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L. GREXTON (NAME) AGENT FOR Self (NAME)

920 East 28 Ave (ADDRESS) _____ (ADDRESS)

VANCOUVER _____

879-4342 (TELEPHONE) V5V-2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

F.M.C. CODE _____ F.M.C. CODE _____

hereby apply for a record of a 2 post claim for the location as outlined on the attached copy of mineral titles reference map No. 92I 7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

COQUIHALLA HIGHWAY to within 0.5 km of Desmond Lake, Initial Post on east side of highway and is the common post to 10 post 2N 3E of Genesis 10

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644347M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 15

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 240 pm

DIR. TO NO. 2 POST N

METRES TO RIGHT -

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644347M
FINAL POST (NO. 2)

CLAIM NAME Genesis 15

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 330 pm

*If witness post placed for final post:

Bearing to true position of final post _____

distance _____ metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.

309751

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver B.C _____

879-4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110 381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92I 7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake; Initial Post on east side of highway and is common to ~~Plus~~ Corner post 2N 3E of Genesis 10.

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed "INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644348M

INITIAL POST (NO. 1)

CLAIM NAME Genesis 16

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 11 ~~2:35~~ pm 235 pm

DIR. TO NO. 2 POST N

METRES TO RIGHT 500 m

METRES TO LEFT _____

I have securely affixed the portion of the metal identification tag embossed "FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644348M

FINAL POST (NO. 2)

CLAIM NAME Genesis 16

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 330 pm

*If witness post placed for final post: n/a

Bearing to true position of final post n/a

distance n/a metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.

309752

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

? NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA _____ GOLD COMMISSIONER _____ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver B.C

879-4342 (TELEPHONE) V5V-2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92I 7E, in the KAMLOOPS Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake. Initial Post on east side of highway 500 m North of Genesis 15 Initial Post

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644349 M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 17

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992 jm

TIME COMMENCED [redacted] am 335 pm

DIR. TO NO. 2 POST N

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644349 M
FINAL POST (NO. 2)

CLAIM NAME Genesis 17

LOCATOR L. Grexton

AGENT FOR self jm

DIST. FROM NO. 1 POST [redacted] 500 m

DATE COMPLETED May 22 1992

TIME COMPLETED 420 pm

*If witness post placed for final post: jm

Bearing to true position of final post [redacted] ,

distance [redacted] jm metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # _____ $ 240
VANCOUVER, B.C.

309753

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME)
920 East 28th Ave (ADDRESS)
Vancouver B.C
879-4342 (TELEPHONE) V5V-2P2 (POSTAL CODE)
VALID SUBSISTING F.M.C. NO. 110 381
FMC CODE _____

AGENT FOR self (NAME)
_____ (ADDRESS)
_____
_____ (TELEPHONE) _____ (POSTAL CODE)
VALID SUBSISTING F.M.C. NO. _____
FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92 I 7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake; Initial post on east side of Highway 500 m north of Genesis 15 Initial Post

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644350M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 18
LOCATOR L. Grexton
AGENT FOR self
DATE COMMENCED May 22 1992
TIME COMMENCED 335 pm
DIR. TO NO. 2 POST N
METRES TO RIGHT 500
METRES TO LEFT _____

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644350M
FINAL POST (NO. 2)

CLAIM NAME Genesis 18
LOCATOR L. Grexton
AGENT FOR self
DIST. FROM NO. 1 POST 500 M
DATE COMPLETED May 22 1992
TIME COMPLETED 4:20 pm

*If witness post placed for final post: y/n
Bearing to true position of final post ~~NNW~~ .
distance ~~0.000~~ metres.
n/a

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS-June 5/92

309754

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

OFFICE USE

AP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

_____ GOLD COMMISSIONER _____ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L. GREXTON (NAME) AGENT FOR self (NAME)

920 EAST 28th AVE (ADDRESS) _____ (ADDRESS)

VANCOUVER B.C. _____

879 4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92I 7E, in the _____ Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake Initial Post on east side of highway 1000 m north from Corner Post 2N 3E of Genesis 10

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644351M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 19

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 425 pm

DIR. TO NO. 2 POST N

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644351M
FINAL POST (NO. 2)

CLAIM NAME Genesis 19

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 450 pm

*If witness post placed for final post: N/A

Bearing to true position of final post _____,

distance _____ metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS - June 5 92.

309755

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

AP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____, 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver _____

879-4342 (TELEPHONE) V5V-2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 JR VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as oulined on the attached copy of mineral titles reference map No. 92 I 7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway To within 0.5 km of Desmond Lake; Initial Post on East side of highway 1000 m North of Genesis 15 Initial Post

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644352 M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 20

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 425 pm

DIR. TO NO. 2 POST N.

METRES TO RIGHT 500

METRES TO LEFT _____

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644352 M
FINAL POST (NO. 2)

CLAIM NAME Genesis 20

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 4:50 pm

*If witness post placed for final post:

Bearing to true position of final post N/A JR

distance N/A metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS-June 5/92

309756

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

AP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____ 19 ____

DO NOT WRITE IN THIS SHADED AREA

_____ GOLD COMMISSIONER _____ MINING DIVISION

APPLICATION TO RECORD A 2 POST CLAIM

I, L Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver, B.C. _____

879-4342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 310381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as outlined on the attached copy of mineral titles reference map No. 92I 7E, in the Kamloops Mining Division.

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake, Initial Post on east side of Highway 11 and is common post to Genesis 10 Cornerpost 2N 3E [redacted] 1M

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644353M
INITIAL POST (NO. 1) 1M

CLAIM NAME [redacted] Genesis 21

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 6 30 pm

DIR. TO NO. 2 POST S

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644353M
FINAL POST (NO. 2)

CLAIM NAME Genesis 21

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 7:05 pm

*If witness post placed for final post: 1M

Bearing to true position of final post [redacted]

distance [redacted] 1M metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
RMS-June 5/92

309757

OFFICE USE

Province of British Columbia Ministry of Energy, Mines and Petroleum Resources

RECORD OF 2 POST CLAIM — MINERAL TENURE ACT

SECTION 23

MAP NO. _____ RECORD NO. _____

MINING RECEIPT NO. _____ RECORDED AT _____ B.C. DATE OF RECORD _____, 19 ____

DO NOT WRITE IN THIS SHADED AREA

GOLD COMMISSIONER _____ MINING DIVISION _____

APPLICATION TO RECORD A 2 POST CLAIM

I, L. Grexton (NAME) AGENT FOR self (NAME)

920 East 28th Ave (ADDRESS) _____ (ADDRESS)

Vancouver _____

8794342 (TELEPHONE) V5V 2P2 (POSTAL CODE) _____ (TELEPHONE) _____ (POSTAL CODE)

VALID SUBSISTING F.M.C. NO. 110381 VALID SUBSISTING F.M.C. NO. _____

FMC CODE _____ FMC CODE _____

hereby apply for a record of a 2 post claim for the location as outlined on the attached copy of mineral titles reference map No. 92I 7E, in the Kamloops Mining Division.

ACCESS

ACCESS: Describe how you gained access to the location; include references to roads, trails, topographic features, permanent landmarks, and a description of the post location.

via Coquihalla Highway to within 0.5 km of Desmond Lake; Initial Post on east side of highway 500 m South of Initial Post of Genesis 21

TAG INFORMATION

I have securely affixed the portion of the metal identification tag embossed " INITIAL POST (NO. 1)" to the initial post and impressed this information on the tag:

TAG NUMBER 644354M
INITIAL POST (NO. 1)

CLAIM NAME Genesis 21 and 22

LOCATOR L. Grexton

AGENT FOR self

DATE COMMENCED May 22 1992

TIME COMMENCED 710 pm

DIR. TO NO. 2 POST South

METRES TO RIGHT _____

METRES TO LEFT 500

I have securely affixed the portion of the metal identification tag embossed " FINAL POST (NO. 2)" to the final post (or the witness post*) and impressed this information on the tag:

TAG NUMBER 644354M
FINAL POST (NO. 2)

CLAIM NAME Genesis 22

LOCATOR L. Grexton

AGENT FOR self

DIST. FROM NO. 1 POST 500 M

DATE COMPLETED May 22 1992

TIME COMPLETED 7:40 pm

*If witness post placed for final post:

Bearing to true position of final post _____,

distance _____ metres.

ACKNOWLEDGEMENT

I have complied with all the terms and conditions of the Mineral Tenure Act Regulation pertaining to the location of 2 post claims and have attached a plan of the location on which the positions of the initial and final posts (and witness and identification posts if applicable) are indicated.

SUB-RECORDER
RECEIVED
JUN - 4 1992
M.R. # 1 $ 240
VANCOUVER, B.C.
AMS-June 5/92.

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION — TITLES BRANCH

DOCUMENT No. 3035866
OFFICE USE ONLY

SUB-RECORDER
RECEIVED
MAY 21 1993
M.R. # 01 $ 20.
VANCOUVER, B.C.
RECORDING STAMP

Mineral Tenure Act
SECTION 21

APPLICATION TO REDUCE THE SIZE OF A 4 POST CLAIM

I, Bernard H KAHLERT
(Name)
1195 Sutton Pl
(Address)
W Vancouver BC
V7S 2L3
(Telephone) (Postal Code)

Valid subsisting FMC No. 113629

FMC Code KAHLBH

*Agent for
(Name(s) of Lessee(s))
(Address)
(Telephone) (Postal Code)

Valid subsisting FMC No.

FMC Code

make application to reduce the under listed 4 post claims in the KAMLOOPS Mining Division by dropping units in accordance with the regulation. The unit numbering system shown on the reverse of the application has been used to denote the unit(s) to be dropped.

Map No. 92I 7E

Name of claim	Title No.	Units to be dropped	OFFICE USE ONLY Value of exploration and development to be credited to reduced claim
Ripple	309996	4, 13, 20, 24	

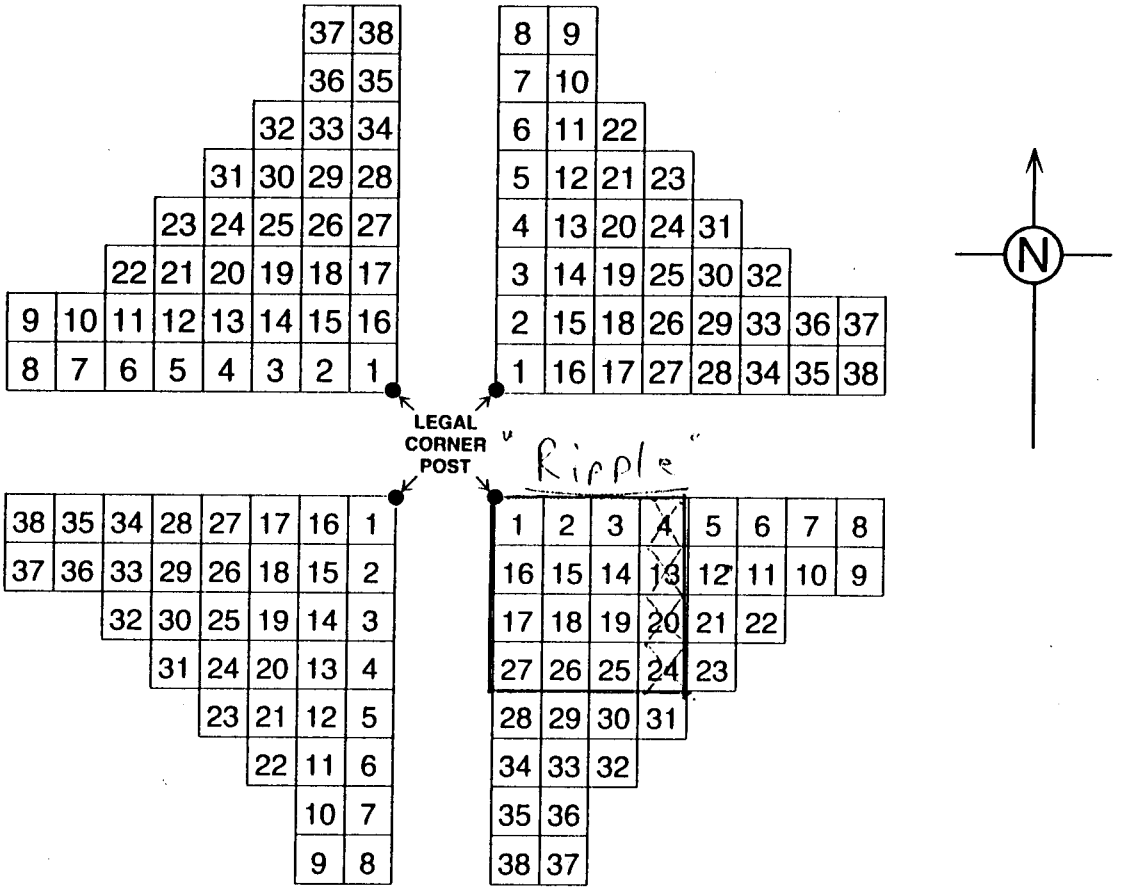
Total $

May 21 / 93
(Date)

B Kahlert
(Signature of Applicant)

*Agent must have specific written authority.

MTL 117 REV. 90/09



UNIT NUMBERING SYSTEM

To use the unit numbering system:

1. Relate the claims to be reduced to the diagram shown above by placing the L.C.P. of the reduced claim on top of the L.C.P. of the appropriate quadrant.

2. List the numbers of the units you wish to drop in the appropriate space on the front of the application.

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION – TITLES BRANCH

DOCUMENT No. 3035865
OFFICE USE ONLY

SUB-RECORDER
RECEIVED
MAY 21 1993
M.R. # 01 $ 20
VANCOUVER, B.C.
RECORDING STAMP

Mineral Tenure Act
SECTION 21

APPLICATION TO REDUCE THE SIZE OF A 4 POST CLAIM

I, Bernard H. Kahlert
(Name)
1195 Southall
(Address)
W Vancouver B.C.
925 2743 V7S 2L3
(Telephone) (Postal Code)

Valid subsisting FMC No. 113629

FMC Code KAHLBAI

*Agent for
(Name(s) of Lessee(s))
(Address)
(Telephone) (Postal Code)

Valid subsisting FMC No.

FMC Code

make application to reduce the under listed 4 post claims in the KAMLOOPS Mining Division by dropping units in accordance with the regulation. The unit numbering system shown on the reverse of the application has been used to denote the unit(s) to be dropped.

Map No. 92I 7E

Name of claim	Title No.	Units to be dropped	OFFICE USE ONLY Value of exploration and development to be credited to reduced claim
DARK STAR	309995	17, 18, 19, 20.	
		24, 25, 26, 27, 28, 29, 30	
		31	

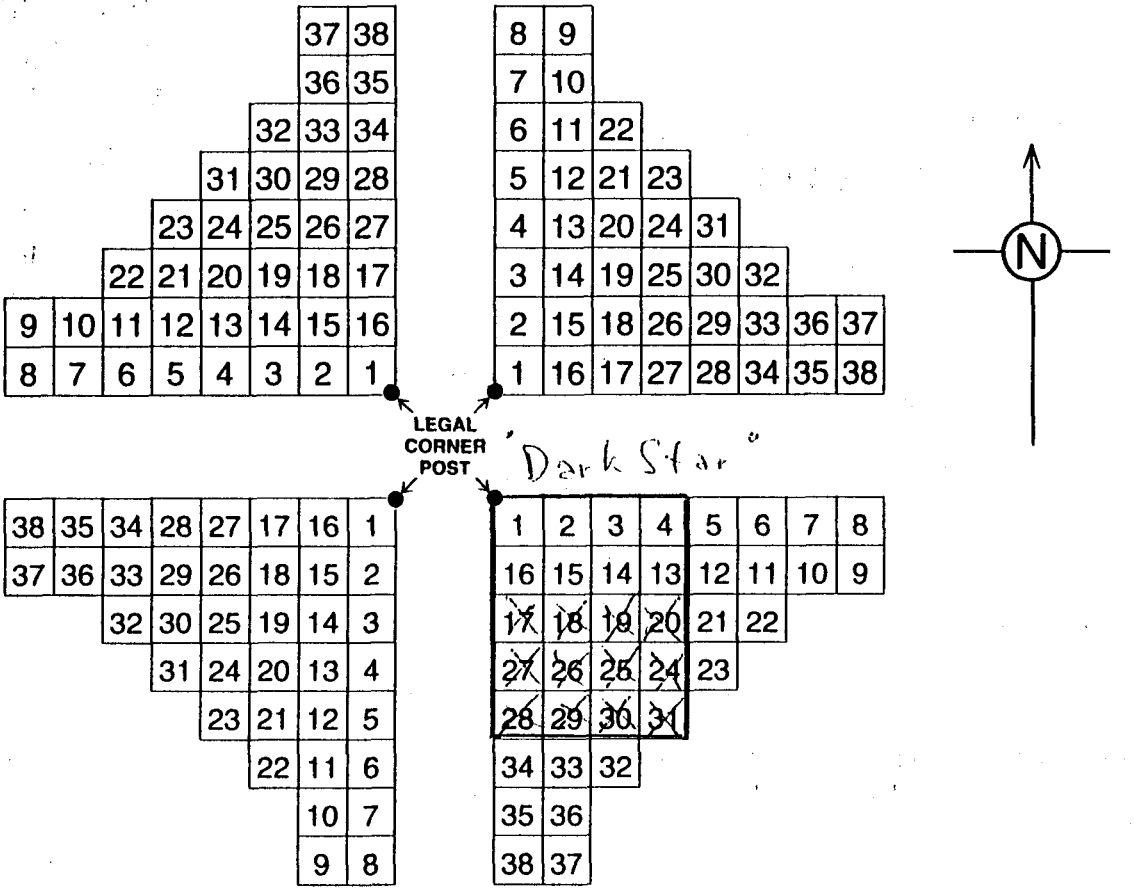
Total $

May 21/93
(Date)

B Kahlert
(Signature of Applicant)

*Agent must have specific written authority.

MTL 117 REV. 90/09



UNIT NUMBERING SYSTEM

To use the unit numbering system:

1. Relate the claims to be reduced to the diagram shown above by placing the L.C.P. of the reduced claim on top of the L.C.P. of the appropriate quadrant.

2. List the numbers of the units you wish to drop in the appropriate space on the front of the application.

Province of British Columbia
Ministry of Energy, Mines and Petroleum Resources
MINERAL RESOURCES DIVISION — TITLES BRANCH

DOCUMENT No. 3035809
OFFICE USE ONLY

SUB-RECORDER
RECEIVED
MAY 20 1993 CL
M.R. # 01 $ 60 00
VANCOUVER, B.C.
RECORDING STAMP

Mineral Tenure Act
SECTION 52

BILL OF SALE ABSOLUTE

INDICATE TYPE OF TITLE Mineral
(Mineral or Placer)

SELLER

I, William B. Kahlert
(Full Name)
1195 Sutton Place
(Mailing Address)
West Vancouver B.C.
(City) (Province)
925-2743 V7S 2L3
(Telephone) (Postal Code)
Valid and Subsisting FMC 132 022
FMC Code

PURCHASER

Bernard H. Kahlert
(Full Name)
1195 Sutton Place
(Mailing Address)
West Vancouver BC
(City) (Province)
925-2743 V7S 2L3
(Telephone) (Postal Code)
Valid and Subsisting FMC 113629
FMC Code KAHLBH

and in consideration of the sum of Six dollars ($ 6.00)
paid to me, do hereby sell 100 % (Specify Percentage) of my interest in the following mineral titles located in the
Kamloops Mining Division:

CLAIM NAME	TITLE NUMBER	CLAIM OR LEASE
Silver Star	309991	Claim
Blue Star	309992	"
Red Star	309993	"
White Star	309994	"
Dark Star	309995	"
Ripple	309996	"

I declare that I have good title to these records and every right to sell the same, in witness whereof I have today signed my legal name.

(Signature of Witness)

May 18/93
(Date)
William Kahlert
(Signature of Seller)

MTL 115 REV. 88/06 M28-2137

APPENDIX II

Certificates of Analysis, Methods and Detection Limits

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-6910 Fax:299-6252

To : LYNN GREXTON
920 EAST 28 th AVE.
VANCOUVER, B.C.

Project: GENSTAR

Type of Analysis: ICP

Certificate: 93047
Invoice: 40118
Date Entered: 93-05-28
File Name: GRE93047.I
Page No.: 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MG	PPM BA	% TI	% AL	% NA	% K	PPM W	PPM BE	PPB AU AA
A	93G 1R	3	14	4	37	0.2	1	1	223	1.97	2	5	ND	ND	8	1	1	1	11	0.10	0.02	10	40	0.29	26	0.08	0.38	0.04	0.10	2	1	5
A	93G 2R	3	29	2	31	0.2	1	1	124	1.45	2	5	ND	ND	4	1	1	1	9	0.02	0.01	5	66	0.06	11	0.05	0.19	0.05	0.02	1	1	5
A	93G 3R	1	8	6	75	0.2	2	1	440	2.66	6	5	ND	ND	19	1	1	1	5	0.20	0.03	8	50	0.36	19	0.10	0.62	0.05	0.02	1	1	5
A	93G 4R	2	8	4	19	0.2	2	1	168	1.49	3	5	ND	ND	18	1	1	1	6	0.19	0.01	3	69	0.14	26	0.08	0.40	0.04	0.04	1	1	5
A	93G 5R	1	10	3	31	0.2	13	3	165	0.90	3	5	ND	ND	3	1	2	1	13	0.15	0.03	1	136	0.28	14	0.03	0.37	0.03	0.01	1	1	5
A	93G 6R	1	5	4	19	0.2	2	1	121	1.20	2	5	ND	ND	5	1	1	1	2	0.09	0.01	2	58	0.09	29	0.04	0.23	0.05	0.08	1	1	5
A	93G 7R	1	6	2	33	0.2	3	1	370	2.18	2	5	ND	ND	3	1	1	1	9	0.20	0.01	7	63	0.08	35	0.02	0.27	0.06	0.12	1	1	5
L	93G 8L	1	262	13	250	0.6	30	3	480	2.45	10	5	ND	ND	32	2	7	1	60	1.38	0.07	9	51	0.74	121	0.08	1.61	0.03	0.10	6	1	5
A	93G 9R	1	8	2	14	0.2	3	2	116	1.36	2	5	ND	ND	4	1	1	1	13	0.09	0.01	2	96	0.08	7	0.04	0.22	0.04	0.01	1	1	5
A	93G 10R	1	7	3	13	0.2	2	1	113	1.05	2	5	ND	ND	9	1	1	1	7	0.17	0.01	3	53	0.08	12	0.05	0.31	0.05	0.01	1	1	5
A	93G 11R	1	2	1	13	0.2	1	2	107	1.19	2	5	ND	ND	5	1	1	1	3	0.09	0.01	1	47	0.10	7	0.04	0.20	0.04	0.01	1	1	5
A	93G 12R	1	12	1	16	0.2	2	3	145	1.37	2	5	ND	ND	9	1	1	1	5	0.15	0.01	3	89	0.08	12	0.04	0.25	0.04	0.01	1	1	5
A	93G 13R	1	6	3	22	0.2	1	3	159	1.26	2	5	ND	ND	15	1	1	1	12	0.26	0.03	2	53	0.22	10	0.07	0.44	0.04	0.04	1	1	5
A	93G 14R	1	4	1	9	0.2	3	4	110	0.54	2	5	ND	ND	1	1	1	1	11	0.02	0.01	1	142	0.15	3	0.01	0.20	0.01	0.01	1	1	5
A	93G 15R	1	7	1	6	0.2	1	3	136	0.17	2	5	ND	ND	3	1	1	1	1	0.10	0.01	6	65	0.01	22	0.01	0.19	0.05	0.13	1	1	5
A	93G 16R	1	16	7	16	0.2	4	3	448	1.96	6	5	ND	ND	49	1	3	1	27	1.72	0.04	1	26	0.35	17	0.06	0.78	0.06	0.02	1	1	5
A	93G 17R	1	4	1	8	0.2	1	3	95	0.22	2	5	ND	ND	7	1	1	1	2	0.04	0.01	4	59	0.02	13	0.01	0.17	0.05	0.10	1	1	5
A	93G 18R	1	3	2	13	0.2	1	2	133	0.21	2	5	ND	ND	5	1	1	1	1	0.09	0.01	5	47	0.02	28	0.01	0.30	0.04	0.10	1	1	5
A	93G 19R	2	94	12	53	0.2	16	6	680	4.16	6	5	ND	ND	20	1	10	1	96	0.67	0.15	3	27	1.61	34	0.35	2.07	0.07	0.08	3	1	5
A	93G 20R	1	14	3	14	0.2	4	7	281	1.01	4	5	ND	ND	10	1	3	1	15	0.50	0.05	1	36	0.32	12	0.10	0.57	0.07	0.01	1	1	5
L	93G 21L	1	171	10	79	0.2	26	11	520	2.92	8	5	ND	ND	34	1	8	1	86	0.82	0.08	5	55	0.86	81	0.17	1.30	0.03	0.10	5	1	5
A	93G 22R	1	11	3	20	0.2	2	2	211	1.08	3	5	ND	ND	34	1	3	1	15	0.43	0.02	1	43	0.24	9	0.06	0.58	0.04	0.01	1	1	5
A	93G 23R	1	3	1	12	0.2	1	4	90	0.19	2	5	ND	ND	2	1	1	1	1	0.02	0.01	5	47	0.01	10	0.01	0.18	0.03	0.16	1	1	5
A	93G 24R	1	2	1	15	0.2	1	3	93	0.19	2	5	ND	ND	2	1	1	1	1	0.02	0.01	4	40	0.01	9	0.01	0.19	0.04	0.15	1	1	5
L	93G 25L	1	165	9	53	0.4	21	8	411	2.31	8	5	ND	ND	34	1	8	1	69	0.93	0.05	4	35	0.70	76	0.13	1.08	0.02	0.11	5	1	10
L	93G 26L	1	72	10	43	0.4	18	8	388	2.25	8	5	ND	ND	35	1	6	1	66	0.82	0.07	4	37	0.66	75	0.13	1.12	0.03	0.12	5	1	5
	93G 27	MISSING																														
A	93G 28R	5	4086	15	74	2.4	22	63	489	6.38	9	5	ND	ND	49	1	16	13	89	0.83	0.09	2	56	1.09	43	0.62	1.58	0.05	0.10	7	1	50
A	93G 29R	1	51	1	13	0.4	2	4	84	0.56	2	5	ND	ND	9	1	1	1	7	0.03	0.01	3	52	0.03	13	0.02	0.18	0.06	0.04	1	1	5
A	93G 30R	1	39	1	11	0.4	3	4	95	0.30	2	5	ND	ND	4	1	1	1	4	0.03	0.01	3	116	0.02	15	0.01	0.16	0.04	0.08	1	1	5

CERTIFIED BY : Rossbach

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-6910 Fax:299-6252

To : LYNN GREXTON
920 EAST 28 th AVE.
VANCOUVER, B.C.

Project: GENSTAR
Type of Analysis: ICP

Certificate: 93075
Invoice: 40133
Date Entered: 93-06-22
File Name: GRE93075.I
Page No.: 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MG	PPM BA	% TI	% AL	% NA	% K	% SI	PPM W	PPM BE	PPB AU	PPB FA
A	93G-27R-26R 27	1	8	1	7	0.2	8	1	90	0.43	3	5	ND	ND	1	1	1	1	8	0.03	0.01	1	190	0.13	6	0.01	0.14	0.01	0.02	0.01	1	1	5

CERTIFIED BY : Rossbach

ROSSBACHER LABORATORY LTD.

CERTIFICATE OF ANALYSIS

2225 Springer Ave., Burnaby,
British Columbia, Can. V5B 3N1
Ph:(604)299-6910 Fax:299-6252

To : LYNN GREXTON
920 EAST 28 th AVE.
VANCOUVER, B.C.

Project: GENSTAR
Type of Analysis: ICP

Certificate: 92200
Invoice: 40133
Date Entered: 93-06-22
File Name: GRE9200.I
Page No.: 1

PRE FIX	SAMPLE NAME	PPM MO	PPM CU	PPM PB	PPM ZN	PPM AG	PPM NI	PPM CO	PPM MN	% FE	PPM AS	PPM U	PPM AU	PPM HG	PPM SR	PPM CD	PPM SB	PPM BI	PPM V	% CA	% P	PPM LA	PPM CR	% MG	PPM BA	% TI	% AL	% NA	% K	% SI	PPM W	PPM BE	PPB AU	PPB FA
L	92G-001L	2	103	10	27	0.1	19	18	402	2.63	9	5	ND	ND	47	1	1	1	69	1.03	0.10	5	16	0.67	131	0.17	1.54	0.01	0.22	0.01	11	2		5
L	92G-002L	3	87	14	42	0.4	40	20	451	2.97	16	5	ND	ND	48	2	1	1	72	1.70	0.10	5	21	0.88	172	0.15	1.87	0.01	0.26	0.01	17	2		5

CERTIFIED BY:

Rossbacher Laboratory Ltd.
GEOCHEMICAL ANALYSTS & ASSAYERS

2225 S. SPRINGER AVE.,
BURNABY, B.C.
CANADA
TELEPHONE: 299-6910
AREA CODE: 604

METHODS OF ANALYSIS, 1990

GEOCHEMICAL:

Gold: 10 Grams of -80 mesh soil, or -100 mesh pulverized silt or rock sample is roasted at 550 °C, and digested with Aqua Regia. The dissolved Gold is then extracted with Methyl Isobutyl Ketone, and the resulting solution analysed using Atomic Absorption spectroscopy.

Multi Element ICP: 0.5 Grams of sample is digested with a 3-1-2 dilute Aqua Regia mixture, and analysed using Inductively Coupled Plasma Spectroscopy.

ASSAY:

Gold (A.A.): 30 gram -100 mesh#) sample is roasted at 550 °C and digested with Nitric Acid, followed by a double digestion with Aqua Regia. The resulting solution is extracted using Methyl Isobutyl Ketone, and analysed using Atomic Absorption Spectroscopy.

Gold (F.A.): 15 or 30 gram -100 mesh sample is fused using standard Fire Assay fluxes, the resulting Au/Ag/Lead button is cupelled, and the Au/Ag bead analysed using Atomic Absorption, or a Gravimetric finish.

Various Elements:

Silver - 3.0 to 6.0 grams is digested with Aqua Regia, taken to dryness, and dissolved in 25 % HCl.
Copper - 0.5 to 2.0 grams is digested with HNO_3-HCl-$HClO_4$ mixture , taken to $HClO_4$ fumes, and dissolved in 10 % $HClO_4$.
Lead - 0.5 to 2.0 grams is digested with HNO_3-$HClO_4$, taken to dryness, and dissolved in 50% HNO_3.
Zinc - 0.5 grams is digested with HNO_3-$HClO_4$-HCl mix, taken to $HClO_4$ fumes, dissolved in H_2O,or HNO_3.

Each solution is subsequently analysed for the required element by Atomic Absorption Spectroscopy.

Jan. 1990.

GEOCHEMICAL ANALYTICAL METHODS CURRENTLY IN USE AT ROSSBACHER LABORATORY LTD.

A. SAMPLE PREPARATION

1. **Geochem. Soil and Silt:**
Samples are dried and sifted to minus 80 Mesh, through stainless steel or nylon screens.

2. **Geochem. Rock:**
Samples are dried, crushed to minus 1/4 inch, split, and pulverized to minus 100 mesh.

B. METHODS OF ANALYSIS

1. **Multi element: (Mo, Cu, Ni, Co, Mn, Fe, Ag, Zn, Pb, Cd, As):**
0.50 Gram sample is digested for four hours with a 15:85 mixture of Nitric-Perchloric acid. The resulting extract is analyzed by Atomic Absorbtion spectroscopy, using Background Correction where appropriate.

2. **Antimony:**
0.50 Gram sample is fused with Ammonium Iodide and dissolved. The resulting solution is extracted into TOPO/MIBK and analyzed by Atomic Absorbtion spectroscopy.

3. **Arsenic: (Generation Method)**
0.25 Gram sample is digested with Nitric-Perchloric acid. Arsenic from the solution is converted to arsine, which in turn reacts with silver D.D.C. The resulting solution is analyzed by colorimetry.

4. **Barium:**
0.20 Gram sample is repeatedly digested with $HClO_4$-HNO_3 and HF. The solution is analyzed by atomic absorbtion spectroscopy.

5. **Biogeochemical:**
Samples are dried and ashed at 550°C. The resulting ash analyzed as in *1, Multielement Analysis.

6. **Bismuth:**
0.50 Gram sample is digested with Nitric acid. The The solution is analysed by Atomic absorbtion spectroscopy.

METHODS OF ANALYSIS (CONT'D)

7. **Chromium:**
0.25 Gram sample is fused with Sodium Peroxide. The solution is analyzed by atomic absorbtion spectroscopy.

8. **Fluorine:**
0.50 Gram sample is fused with Carbonate Flux, and dissolved. The solution is analysed for Fluorine by use of an Ion Selective Electrode.

9. **Gold AR/AAS:**
10.0 Gram sample is roasted at 550°C and dissolved in Aqua Regia. The resulting solution is subjected to a MIBK extraction, and the extract is analzed for Gold using Atomic Absorbtion spectroscopy.

9A **Gold FA:**
10.0 Gram sample is fused with appropriate fluxes, and the resulting lead button is cupelled to produce a gold/silver bead. The bead is dissolved in Aqua Regia and analyzed for gold by AAS.

10. **Mercury:**
1.00 Gram sample is digested with Nitric and Sulfuric acids. The solution if analyzed by Atomic Absorbtion spectroscopy, using a cold vapor generation technique.

11. **Partial Extraction and Fe/Mn oxides:**
0.50 Gram sample is extracted using one of the following: hot or cold 0.5 N. HCl, 2.5% E.D.T.A., Ammonium citrate, or other selected organic acids. The solution is analyzed by use of Atomic Absorbtion spectroscopy.

12. **pH:**
An aqueous suspension of soil, or silt is prepared, and its pH is measured by use of a pH meter.

13. **Rapid Silicate Analysis:**
0.10 Gram sample is fused with Lithium Metaborate, and dissolved in HNO_3. The solution is analyzed by Atomic Absorbtion for SiO_2, Al_2O_3, Fe_2O_3, MgO, CaO, Na_2O, K_2O, TiO_2, TiO_2, P_2O_5, and MnO.

14. **Tin:**
0.50 Gram sample is sublimated by fusion with Ammonium Iodide, and dissolved. The resulting solution is extracted into TOPO/MIBK and analysed by atomic absorbtion spectroscopy.

15. **Tungsten:**
1.00 Gram sample is sintered with a carbonate flux, and dissolved. The resulting extract is analyzed colormetrically, after reduction with Stannous Chloride, by use of Potassium Thiocyanate.

16. **ICP :**
0.5 Gram sample is digested with Aqua Regia, and analyzed using a JOBIN YVON MODEL JY 32 1987 ICP Emission Spectrophotometer for Ag, Al, As, Au, B, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, Hg, La, Mg, Mo, Mn, Ni, P, Pb, Sb, Si, Sr, Ti, U, V, W, Zn.

TRACE LEVEL GEOCHEMICAL ANALYSIS

A. ATOMIC ABSORPTION MULTI ELEMENT PACKAGE

Digestion by $HClO_4$ / HNO_3 or Aqua Regia.
First element $2.25
Subsequent element $0.75

ELEMENT	DETECTION LIMIT		UPPER LIMIT
Arsenic	2	ppm	1.0%
Copper	1	ppm	1.0%
Molybdenum	1	ppm	1.0%
Lead	2	ppm	1.0%
Zinc	1	ppm	1.0%
* Silver	0.1	ppm	20 ppm
Nickel	2	ppm	1.0%
Cobalt	2	ppm	1.0%
* Cadmium	0.2	ppm	1.0%
Manganese	5	ppm	1.0%
Iron	5	ppm	10.0%
Chromium	2	ppm	0.1%

* Background correction applied.

B. ICP MULTI ELEMENT PACKAGE

a. Digestion by Aqua Regia
   6 elements $5.00
   12 elements $6.00
   All elements $7.00

b. Digestion by $HClO_4$ / HNO_3 / HF mixture (Total)
   24 elements $12.00

* Aluminum	0.01%	* Magnesium	0.01%
Antimony	3 ppm	Manganese	1 ppm
Arsenic	3 ppm	Mercury	3 ppm
* Barium	1 ppm	Molybdenum	1 ppm
* Beryllium	1 ppm	Nickel	1 ppm
Bismuth	3 ppm	Phosphorus	0.001%
* Boron	1 ppm	* Silicon	0.001%
Cadmium	0.5 ppm	* Sodium	0.01%
* Calcium	0.01%	* Strontium	1 ppm
* Chromium	1 ppm	* Titanium	0.01%
Cobalt	1 ppm	* Tungsten	3 ppm
Copper	1 ppm	Uranium	10 ppm
Iron	0.01%	Silver	0.2 ppm
Gold	3 ppm	Vanadium	1 ppm
* Lanthanum	1 ppm	Zinc	1 ppm
Lead	2 ppm		

Elements for which the digestion is possibly incomplete are marked with an asterisk.

C. NOBEL METALS GEOCHEMICAL ANALYSIS

Gold, Aqua Regia / AA Finish	5 ppb	$4.75
Gold, Fire Assay / AA Finish	5 ppb	$7.25
Gold & Platinum & Palladium, Fire Assay / AA Finish	2 ppb, 15 ppb, 2 ppb	$15.00

D. SPECIFIC ELEMENTS

ELEMENT	DETECTION LIMIT	UPPER LIMIT	PRICE
Antimony	1 ppm	0.1%	$4.00
Arsenic	1 ppm	1.0%	4.00
Barium	10 ppm	1.0%	4.50
Beryllium	0.1 ppm	0.1%	5.00
Bismuth	2 ppm	0.1%	4.00
Chromium	5 ppm	1.0%	4.50
Fluorine	10 ppm	1.0%	5.00
Lithium	1 ppm	1.0%	4.50
L.O.I.	0.01%	100%	4.00
Mercury	10 ppb	0.01%	2.75
Rubidium	1 ppm	1.0%	5.00
Selenium	1 ppm	0.1%	5.00
Strontium	1 ppm	1.0%	4.50
Sulfur	0.1%	100%	7.00
Tellurium	0.1 ppm	0.1%	6.00
Thallium	0.5 ppm	0.1%	5.00
Tin	2 ppm	0.1%	4.25
Tungsten	2 ppm	0.1%	4.25

E. PH ANALYSIS

Soil, Silt and Water	$4.00

F. SPECIFIC GRAVITY

	$4.50

DISCOUNT POLICIES

All prices are on an individual basis, discounts may be negotiated fo

APPENDIX III

Detailed Rock Unit Descriptions

NICOLA GROUP

ANDESITE-BASALT **West of Clapperton Fault**

-medium to dark green, greyish green, maroon, locally varigated maroon and green
-massive flows, tuffs, lapilli tuffs, locally porphyritic, locally amygdaloidal and/or vesicular
-fragment composition typically similar to matrix, fragments are commonly indistinct, difficult to distinguish
-finer nonporphyritic varieties tend to have weak felted texture
-amygdules are filled with feldspar, chlorite and/or calcite, locally white feldspar rims yellow olivine(?), rare chlorite rimmed by K-feldspar
-phenocrysts of feldspar, 2-15%, white, 2-3 mm, anhedral to subhedral, locally removed leaving fine vugs
-variably nonmagnetic, weakly to moderately magnetic, patchy
-variably non to moderately calcareous, pervasive

SULFIDES: Pyrite-trace to 2%, fine to very fine, disseminated, subhedral to anhedral, weakly tarnished

ALTERATION:
-generally quite fresh, only locallized alteration effects noted
-plagioclase phenocrysts locally weak to moderately saussuritized
-epidote fracture filling common, locally as weak pervasive patches, rarely moderate to strong; one veinlet 1.5 cm with selvages of calcite and quartz
-chlorite fracture fillings sparse to common in finer nonporphyritic varieties; moderate to strong pervasive chloritization of felted varieties
-rare quartz veinlets, white, massive to coarse grained weakly drusy, discontinuous, maximum 1.5 cm wide
-carbonate as minor local calcite fracture fillings and local alteration of feldspar

OXIDES: Hematite-trace to 1%; locally apparent as very fine disseminations and masses in matrix, maximum 8%
Magnetite-only observed in one local as very fine grained, massive, 5%
Limonitic surfaces sparse to common

WEATHERS: -variably smooth rounded-smooth blocky-highly irregular; bleached medium to light grey locally, varies to very dark grey with strong lichen cover

OTHER:
-varies from massive to moderately well fractured, strongly fractured along Clapperton Fault
-occasional subcrop of basalt dykes(?), very dark green to blackish, massive, up to 5% very fine grained augite phenocrysts, matrix weak-moderate pervasive epidote alteration but restricted to select grains; estimated to be 1 to 2 m wide, poorly exposed

NICOLA GROUP

FOLIATED ANDESITE-DIORITE **West of Clapperton Fault**

- -dark greenish grey, dark green, aphanitic to subvolcanic to fine grained, locally porphyritic
- -weak to stronly foliated, less foliated varieties tend to exhibit weak to strong, finely felted texture
  - -feldspar phenocrysts white-eipidote green, 15%, maximum 2 mm, vague grain boundaries, generally indistinct
- -commonly noncalcareous; strong pervasively calcareous in one occurrence of Mn and dolomitic pinkish carbonate in a foliated andesite feldspar porphyry exhibiting a coarsely knotted texture
- -commonly moderate to strongly magnetic, local variations non and weakly magnetic
- -dioritic varieties dark greenish grey, foliation moderate to strongly apparent, feldspar 25 to 35%, chloritized mafics 65 to 75%, nonmagnetic, noncalcareous; several localities with sub-gneissic segregated texture
- -local minor narrow beds or lenses dark grey siltstone, moderate to strongly magnetic, noncalcareous, very silious, trace pyrite

SULFIDES: Pyrite-trace to 1%, disseminated, generally weak to moderately and locally strongly oxidized, rarely in quartz veins/stringers

ALTERATION:
- -locally moderate to strongly bleached buff to bluish grey with/without patchy remnant felted/foliated texture, in irregular pods, patches of 1 to 3 sq. m area and linear zones up to 1 m wide, intrusive association at one local
- -chloritization commonly moderate to strong,pervasive
- -saussuratization of feldspar common, weak to moderate, pervasive
- -carbonate generally not common but when present tends to be calcite fracture filling or feldspar alteration product
- -silicification locally strong to intense,pervasive in bleached areas; quartz milky, pink, greenish (epidote), medium orange and/or brownish, massive, cryptocrystalline to coarsely crystalline; minor fracture fillings, tension gashes and discontinuous veins, maximum 5 cm, local weak stringer stockwork
- -epidote common in fracture fillings, minor stringers, appear to predate quartz stringers
- -biotite found in one locality, fine black books, difficult to distinguish
- -K-feldspar as rare fine frature fillings cutting foliation, at two localities

OXIDES: Magnetite-rarely apparent, locally 10 to 20%, very fine grained, disseminated
Limonite-as fine fracture fillings and surface coatings, varies with pyrite

WEATHERS: -medium grey, brownish, dark greenish grey to black, finely irregular surfaces varying with foliation

OTHER: -epidote with lessor pinkish brown garnet as local lenses, irregular masses and small pods, likely due to hornfelsing of calcareous lens/bed within volcanics

NICOLA GROUP

ANDESITE-BASALT **EAST OF CLAPPERTON FAULT**

-medium green, greenish grey, dark green, massive, aphanitic
-locally porphyritic, feldspar 5 to 8%, white, maximum 1 mm, anhedral to subhedral, hazy and sharp margins; rarely with hornblende 8%, 3 mm long, subhedral to euhedral
-nonmagnetic, varies to strongly magnetic
-noncalcareous

SULFIDES: Pyrite-commonly nil, locally trace ± moderately oxidized

ALTERATION: -epidote locally weak to moderate, pervasive, rare fine fine tension gash
-minor white siliceous fracture filling locally

OXIDES: Magnetite locally 5 to 10%, very fine grained, disseminated

WEATHERS: brownish grey, smooth

OTHER: massive epidote lenses locally in northeast section of map area

COMMENTS: -epidote lenses likely hornfesed, formerly calcareous lenses within volcancis
-some occurrences likely dyke rocks, others likely variation within volcanic pile

NICOLA GROUP

NONFOLIATED ANDESITE **East of Clapperton Fault**

-light to dark green, medium greenish grey
-aphanitic varying to subvolcanic and locally as fine grained diorite
-massive, locally tuffaceous and/or porphyritic, commonly nonfoliated, locally very weakly foliated
-feldspar phenocrysts 3 to 5%, some 8 to 12%, creamy, anhedral to subhedral
-augite (±hornblende) phenocrysts 10 to 15%, medium to dark green anhedral to subhedral, massive, decussate, set in chloritic matrix, augite locally very fresh, blackish grains, some with minor feldspar laths
-weak flow texture apparent locally in feldspar porphyry
-generally nonmagnetic, augite porphyry varies to moderately magnetic, subvolcanic varieties vary moderate to strongly magnetic locally

SULFIDES: Pyrite-commonly nil, locally trace, bright brassy to weakly oxidized, anhedral, disseminated, rarely 2 to 3 %, locally associated with epidote fracture fillings and stringers

ALTERATION:
-chloritization commonly weak, pervasive
-epidote as minor fracture fillings maximum 1mm, locally stringers up to 2.5 cm with associated weak pervasive alteration of host
-saussuritization of feldspar weak, pervasive, varies to moderate in subvolcanic and dioritic varieties
-carbonate rare, as calcareous fracture fillings and feldspar alteration product
-silicification as sparse, local quartz stringers, lessor lenses, occasional crisscrossing hairline fracture fillings

OXIDES: Magnetite-rarely apparent, one occurrence 5%, very fine grained, subhedral locally euhedral, disseminated
Limonite-locally very minor fracture fillings, rarely as cores in quartz stringers

OTHER:
-distinct porphyritic variety, light to medium green, feldspar 15 to 20%, anhedral, some subhedral, maximum 1.5 cm, most 2 to 3 mm; set in aphanitic matrix; nonmagnetic; noncalcareous; pyrite trace, anhedral to subhedral, strongly oxidized; minor K-feldspar hairline fracture fillings
-distinct subvolcanic to dioritic variety with feathery texture due to subhedral, white feldspar laths with sharp boundaries, locally with trachyoid texture developed locally/ patchy

NICOLA GROUP

DACITE **East of Clapperton Fault**

-light brownish grey, medium to dark green, medium greenish grey
-massive, locally porphyritic
-feldspar phenocrysts 3 to 10 %, anhedral to subhedral, 1 to 2 mm ± irregular grain boundaries
-and/or dark green chloritized hornblende(?) phenocrysts, 5%, weakly alligned (flow texture?); locally fresh hornblende 8 to 10%, blackish, decussate
-biotite as very fine books, medium brown to near clear (?)
-matrix very aphanitic, hard
-strongly magnetic to nonmagnetic
-noncalcareous

SULFIDES: Pyrite-commonly nil, locally trace, fine to very fine, andhedral to subhedral, disseminated, moderately oxidized

ALTERATION: -appears quite fresh
-chlorite weak, pervasive
-biotite showing progressive removal of iron?
-possible muscovite(?)

COMMENTS: as small local occurrences

GABBRO **East of Clapperton Fault**

-dark green, fine to medium grained, massive, decussate
-feldspar 40 to 60%, anhedral, medium greenish hue, subhedral and anhedral, maximum 1.5 mm
-mafics 40 to 50%, anhedral masses interstitial to feldspar, strong pervasive chloritization
-strongly magnetic
-noncalcareous
-nil sulfides
-magnetite 8 to 10%, very fine, disseminated
-weathers dark green grey, well rounded, weakly pitted
-one occurrence

NICOLA GROUP

AMPHIBOLITE **East of Clapperton Fault**

-dark green to medium dusty green, fine grained, random orientation restricted to specific planes produces strong foliation
-amphibole (?) 70 to 80%, fine, accicular, dark green
-feldspar 20 to30%, interstial to amphibole, massive
-moderately and nonmagnetic
-noncalcareous
-nil sulfides
-chloritization moderate to strong at one local
-two occurrences

INTRUSIVE ROCKS

BIOTITE QUARTZ MONZONITE-GRANITE **In central foliated zone**

-light grey, fine grained, massive, holocrystalline, hypidiomorphic, equigranular, locally with pinkish rusty stain as fine patches, pervasively distributed producing a pinkish brown hue
-feldspar 60%, white to creamy, most anhedral intergrowths, a few subhedral; K-feldspar 30 to 40%, plagioclase 20 to 30%; grain boundaries distinct to sharp , commonly irregular
-quartz 20 to 25%, clear to greyish, anhedral grains
-biotite 12 to 15%, very fine, thin books and scaley plates, blackish to dark green
-muscovite(?) 2 to 5%, fine, clear scaley aggregates
-nonmagnetic
-noncalcareous

SULFIDES: Pyrite-trace, very fine grained, disseminated, weak to moderately oxidized

ALTERATION: -quite fresh
-chloritization of biotite weak to moderate, locally strong

OXIDES: -minor irregularly angular vugs coated with dark rust

WEATHERS: -buff to medium grey with strong dark lichen cover, smooth but finely irregular surface, massive to blocky

OTHER: -platey parallel texture 245°/15° RHR at on local

COMMENTS: -contact with foliated volcanics not directly exposed, appears to be fairly sharp to distinct, trend at one local 225°
-appears to be somewhat sinuous, northeast trending dyke, 30 to 50 m wide

INTRUSIVE ROCKS

BIOTITE GRANITE-BIOTITE ALKALINE GRANITE — **Southeast portion of Central foliated zone**

- -light grey, very fine grained, massive, holocrystalline, hypidiomorphic granular, equigranular
- -feldspar 75%, white, very fine grained, anhedral, locally subhedral, locally as perthitic intergrowths with plagioclase; K-feldspar 40 to 60%, plagioclase 15 to 25%
- -quartz 8 to 15%, clear, fine to very fine grained, and as massive aggregates up to 2 mm
- -biotite 8 to 10%, dark brown to blackish, platey aggregates
- -muscovite 8 to 10%, locally apparent
- -nonmagnetic
- -noncalcareous

SULFIDES: Pyrite-trace, fine to very fine grained, disseminated, weakly oxidized

ALTERATION:
- -quite fresh
- -chloritzation of biotite locally weak to strong with biotite locally strongly removed leaving scaley aggregates of pale green chlorite

COMMENTS:
- -appears to be similar to biotite quartz monzonite dyke (related?)

INTRUSIVE ROCKS

BIOTITE QUARTZ MONZONITE — **Southeast portion of Central foliated zone**

- -light grey, brownish grey to pinkish, massive, holocrystalline, hypidiomorphic granular, equigranular, locally subporphyritic
- -feldspar 50 to 60%, white, very fine grained, anhedral and nearly aphanitic, massive intergrowths; K-feldspar 20 to 25% as very fine masses
- -quartz 15 to 20%, clear, fine grained, anhedral grains with sharp boundaries but generally intergrown with feldspar; also as fine grained subhedral and rounded, clear to light grey quartz eyes, most less than 1mm, maximum generally 3 mm rarely to 5 mm
- -biotite 12 to 20%, fine to very fine, rarely coarse grained books and as dark masses interstitial to quartz-feldspar mix, also as massive closts up to 4 mm
- -muscovite/sercite 8 to 10%, very fine to extremely fine grained, clear plates and scaley aggregates locally present
- -nonmagnetic
- -noncalcareous

SULFIDES: Pyrite-trace, disseminated, anhedral to subhedral, weak to moderately oxidized

ALTERATION: -fresh; patchy very weak to moderate, pervasive chloritization of biotite

WEATHERS: -medium grey, rounded, blocky, generally with strong lichen cover

OTHER: -dyke 10 m wide, 145 to 150° dip likely steep, through foliated andesite to diorite
-contact grades finer

INTRUSIVE ROCKS

HORNBLENDE QUARTZ DIORITE — **Central foliated zone**

-medium grey, mottled, fine locally medium grained equigranular, locally subporphyritic, hollocrystalline, hypidiomorphic granular
-hornblende 25 to 30%, anhedral masses to subhedral grains
-feldspar 50 to60%, white, anhedral masses and subhedral grains, slight coarsening up to 4 mm locally giving subporphyritic texture
-quartz 8 to 10%, clear, anhedral, intermixed with feldspar, minor euhedral grains
-nonmagnetic
-noncalcareous

SULFIDES: -nil

ALTERATION: -fresh

OXIDES: Limonite-weak on irregular microfractures and along feldspar grain boundaries

COMMENTS: -dyke(?)

QUARTZ DIORITE QUARTZ-EYE PORPHYRY — **Northeast map area, one occurrence in southeeast central foliated zone**

-light grey to mottled green and pinkish, fine grained, porphyritic
-feldspar 40%, white, fine, anhedral intergrowths with indistinct boundaries
-mafics 25%, anhedral, remnants
-quartz 10%, clear, anhedral fine grained, mixed with feldspar, 5 to 15% clear, anhedral to subhedral phenocrysts 5 to 15%
-nonmagnetic

SULFIDES; Pyrite-trace, anhedral to subhedral, disseminated, generally fine grained, locally 2 mm, brassy to strongly oxidized

ALTERATION:
-weak to moderately altered
-chloritization of mafics strong to intense, mafics moderately and locally strongly removed
-saussuritization of feldspar nil to weak locally pervasive near minor epidote fracture fillings
-carbonate as minor pinkish to brownish discontinuous fracture fillings

INTRUSIVE ROCKS

DIORITE (-QUARTZ DIORITE) **East of Clapperton Fault**

-medium to dark greenish grey, fine locally medium grey, generally finely mottled whita/green, massive, hollocrystalline, hypidiomorphic granular, equigranular, locally extremely vague foliation
-hornblende 50 to 80% medium to dark green, commonly dusty green anhedral to subhedral
-augite very minor occurring locally
-feldspar 30 to 30%, white, anhedral, interstitial to mafics, rare subhedral phenocrystst with hazy to sharp but irregular boundaries
-quartz locally present, maximum 10%, clear, anhedral
-moderate to strongly magnetic locally nonmagnetic
-noncalcareous

SULFIDES: Pyrite-trace, fine to very fine grained,anhedral, disseminated not ubiquitous

ALTERATION: -chloritization of mafics commonly weak to moderate, pervasive
-saussuritization of feldspar commonly weak, pervasive locally moderate
-silicification as rare quartz stringers maximum 1 to 2 mm, as white to clear massive, cryptocrystalline and fine granular quartz, fracture related,

OXIDES: Magnetite-locally up to 5%, very fine, anhedral, disseminated

WEATHERS: -very dark grey, flat blocks

OTHER: -contacts not directly observed but appear gradational with volcanics
-one distinct variety with subtrachyoidal texture; hornblende 10 to 15%, subhedral and anhedral phenocrysts maximum 2mm, ±augite; feldspar very fine to fine decussate white laths with random areas of parallel allignment, varies to feathery texture in specimen lacking trachyoidal texture; becomes very fine grained to subvolcanic; appears to grade into equivalent andesite feldspar porphyry
-one distinct variety locally present with mafics as anhedral clots with plagioclase as anhedral intergrowths and subhedral to euhedral phenocrysts generally less than 2%, maximum 5 mm, K-feldspar fracture fillings at two locallities; matrix commonly pervasive, moderately chloritized but large mafic clots are fresh to very weakly chloritized; hornblende 25 to 30% set in matrix of chlorite and feldspar; nonmagnetic; noncalcareous; nil pyrite; more correctly named crowded andesite feldspar porphyry

-one variety of quartz diorite, light grey to buff, very fine grained, mafics strongly removed (less than 5%) highly siliceous matrix, quartz 15 to 20% intermixed with feldspar, nonmagnetic, noncalcareous; as a dyke maximum 5 m wide, trending 170°, dip likely steep

OTHER

DACITE **East of Clapperton Fault**

- -medium greenish grey, massive, equivalent to quartz diorite
- -locally with fine anhedral to subhedral feldspar phenocrysts with variably sharp to insistinct margins
- -matrix aphanitic, siliceous
- -moderately magnetic
- -noncalcareous

SULFIDES: -nil

ALTERATION: -locally cut by fine, clear quartz stringers
-occasional fine muscovite/sericite in fine fracture fillings

COMMENTS: dykes

QUARTZ LATITE-ALKALINE RHYOLITE **Central foliated zone**

- -light to medium grey to pinkish brown aphanitic and and subvolcanic equivalent to quartz monzonite and alkaline granite intrusive rocks
- -subvolcanic varieties with plagioclase phenocrysts, 8%, maximum 0.5 mm; set in K-feldspar-rich matrix; mafics as biotite,1%, blackish,±weak to moderately chloritized; muscovite 3 to 5%, very fine grained
- -nonmagnetic
- -noncalcareous

SULFIDES: -nil

ALTERATION: -chloritization of mafics, weak to moderate, only apparent where mafics are macroscopic

OTHER: -field relationships uncertain
-described as "dacite" in field but later feldspar staining determined strong alkaline compositions

COMMENTS: -due to limited collection/staining of "dacite" specimen, alkaline varieties are likely more extensive than current mapping indicates

APPENDIX IV

Sample Descriptions

ROCK SAMPLES GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE (1) indicates number - eg one "vein"

Attitude: 1. Contact 2. Bedding 3. Foliation 4. Cleavage 5. Fault 6. Shear 7. Fracture 8. Vein 9. Dyke 10.

SAMPLE DESCRIPTION

93G SERIES

1R Andesite? - dk rusty brn surface weathers angular, irreg. ē gnish gy fresh surface, strong ability in hardness (with sil); v fg diss w-s ox, w-m well act generally ē Mn, locally gn; v. fg mag along v. fine fract, noncalc; rare feld pheno apparent in sections that are v fine & dk gn; colour varies dk gn with patches w-s bleached & patches dk rusty

2R ANDESITE? strongly sil?, varies buff to m gn, w to i sil; locally i bleached possibly ē v f crystalline q in vugs (from feld loss?); original feld pheno 1-3 mm vague to absent; s r fract throughout obscures texture; q vns & sweats discont, dry massive wht & r stained, most <1 cm, w-m fract ē q; mag anhed. fg irreg. masses
5 blds scattered over 5 m

3R Dacite m gn weathers msy ē strong wht & gy lichen, rough irreg. to blocky surface; aphanitic vague text, uniformly hard; py diss, anh. i ox; occasional q str, wht crypto, mass with slightly hazy margins, most <2 cm
vary strong pinch ē swell to fairly regular

4R ALTERED ANDESITE? - highly < blds in tree roots; highly siliceous smooth surface weathers buff ē local r; wet fresh surface x blue gy; feld i cla v fg phenos mostly as remnant brownish, anh-subhed; mag v fg diss; chl as fairly fresh looking

Sample	Float/Talus	Local	Outcrop/Sub.	Composite	Chip	Grab	Length (m)	Width (m)	Quartz	Feldspar	(Plagioclase)	Hornblende	Biotite	Chlorite	Carbonate	Alt. General	Alt. Chlorite	Epidote	Alt. Carbonate	Silica	Potassium	Clay	Sericite	Bleached	Limonite	Manganese	Malachite	Magnetite %	Attitude	Stringers	Vein	Stockwork	Vein Type	Amount	Width (m)	Length (m)	Pyrite	Pyrrhotite	Chalcopyrite	Galena	Sphalerite	Arsenopyrite	Molybdenite	Total	Gold	Au ppb	Ag ppm	Cu ppm
1R			O			X	1.5			rare					O					1-3				1-3		2		X									tr-1											
2R			S			X	5			X										X				X				tr		X	X		Q	①	4cm		O											
3R			O			X	3								O													X		X			Q	①	2cm		tr											
4R	F	X				X	0.5			8-10				X	O			X		3-4								tr-1		1			Q															

COMMENTS: platey grains, diss, v. little remaining, perv. sil & lessor fine crisscrossing str, clear-wht-r, minor ep str
v. distinct parting locally apparent possibly remnant foliation
4 rx

ROCK SAMPLES

GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE (1) indicates number- eg one "vein"

SAMPLE DESCRIPTION	TYPE: FLOAT/TALUS	LOCAL	OUTCROP/SUB.	COMPOSITE	CHIP	GRAB	m: LENGTH	WIDTH	MAIN MINERALS %: Quartz	Feldspar	(Plagioclase)	Hornblende	Biotite	Chlorite	Carbonate	ALTERATION: GENERAL	CHLORITE	EPIDOTE	CARBONATE	SILICA	POTASSIUM	CLAY	SERICITE	BLEACHED	OXIDES: LIMONITE	MANGANESE	MALACHITE	Magnetite %	ATTITUDE (1. CONTACT 2. BEDDING 3. FOLIATION 4. CLEAVAGE 5. FAULT 6. SHEAR 7. FRACTURE 8. VEIN 9. DYKE 10.)	VEINS: STRINGERS	VEIN	STOCKWORK	TYPE	AMOUNT	WIDTH (m)	LENGTH (m)	METALLIC MINERALS %: Pyrite	Pyrrhotite	Chalcopyrite	Galena	Sphalerite	Arsenopyrite	Molybdenite	TOTAL	GOLD	ANALYSES: Au ppb	Ag ppm	Cu ppm	ppm	ppm	ppm
5R Bull Quartz Vein - wht-pinkish orange staining, coarsely crystalline, v dry looking, 30 cm strike exposure $\angle^{200}_{62}$ RHR (rough) distinct but w irreg contacts Host A-Di v fg, mgngy, w spotty magn, noncalc, w allignment of chl, occasional ep ff up to 1.5 mm; occasional i bleached pod c̄ gradational margins; similar sil sample; widely spaced joints possibly indicating bedding $\angle^{240}_{30}$ RHR			O			X																									X		Q		3-4cm																	
6R Altered Andesite? to Dacite m-s bleached, blue gy, sil perv & along fine str c̄ m or brn r q; locally developed into w stwk which post date v fine ep str & ff c̄ associated perv sil ≈ 93G4R over 0,5 m² area			S			X										2		X		3/4				X						X		1	Q																			
7R Altered Andesite? to Dacite - similar to G4R & G6R but sil stronger perv, from fine fract extending 3-5 mm (selvages) gradational margins; q stwk c̄ wht & red brn w vuggy q; original character of rock is vague to totally absent, local patches blue gy weak felted text matics & feld's removed, local remnants apparent; s variation in colour dk gy to wht to reddish brn to gngy; py diss throughout & fract-related nil to mod magn			O			X									O	3				4								0/x		X		1	Q				1															
8L Silt from very small drainage																																																			

COMMENTS:

ROCK SAMPLES

GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE (1) indicates number - eg one "vein"

SAMPLE DESCRIPTION	Float/Talus	Local	Outcrop/Sub.	Chip	Grab	Length (m)	Hornblende	Chlorite	Carbonate	Alteration: General	Alteration: Chlorite	Alteration: Silica	Alteration: Sericite	Alteration: Bleached	Magnetite %	Veins: Stringers	Veins: Vein	Veins: Stockwork	Veins: Type	Veins: Amount	Veins: Width	Pyrite
G9 ALTERED ANDESITE? - DACITE feldp m blue-gy, v. hard, fold phenos anh, < 1mm vague remnants, weak network wht bull q max 3cm most 1-2mm & r mass crypto q reddish r. or. brn locally gnish (ep); local ep hairline fract			S		X				0	3 4	x	3		x	x			\	Q			0
10R Intensely altered equivalent to G9R, G11R w blue gy colour, v fg diss chl (hb?) crystals sub-anh locally euh. apparent against matrix; feld s sauss round mass; py s-i ox along much finer ep ff; minor q str clear-wht locally mr or brn less than 1 per 10cm w magn.			X	✓			?	5	0	4	X		x	x	x	x			Q	①		tr
11R Slightly more bleached equivalent of G9, v fg mafics, py diss s-i r, mag diss v fg			X							3				x	tr							tr
- G9-11 occurrence surrounded to S, N & E by A-D, foliated; = large pod? c̄ gradational contacts																						
12R ALTERED ANDESITE? - gn to blue gy to buff with increased alt; varies soft to i hard with sil, q tension (?) gashes str-vn-stwk max 5cm most < ½ mm; milky to pink vns c̄ sharp boundaries, regular in outline, pink varieties sugary q ep str stwk & ff irreg, locally assoc c̄ i ox fg py, have broadly bleached margins - bull & pink vns look dry & uninteresting; q ep ft look juicy Grx	F	L			X	10				3 3	x	2				X	X	1	Q		5 cm	tr
13R SILICIFIED ANDESITE - varies blue gy to near wht; similar to that sampled previously; q str spare or pinkish & lesser white most 0.5 cm, ep ± q str more common some with i ox py; upslope bio developed as dk blk books			O		X	10				3 4	X		2	3 4		x			Q	①	cm 1.5	tr

COMMENTS: in foliated A; sample taken proximal to (obscured) contact c̄ bio QM? dy

ROCK SAMPLES

GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE (I) indicates number- eg one "vein"

SAMPLE DESCRIPTION	TYPE: FLOAT/TALUS	TYPE: LOCAL	TYPE: OUTCROP/BUD.	TYPE: COMPOSITE	TYPE: CHIP	TYPE: GRAB	m: LENGTH	m: WIDTH	MAIN MINERALS %: Quartz	Feldspar	(Plagioclase)	Hornblende	Biotite	Chlorite	Carbonate	ALTERATION: GENERAL	CHLORITE	EPIDOTE	CARBONATE	SILICA	POTASSIUM	CLAY	SERICITE	BLEACHED	OXIDES: LIMONITE	MANGANESE	MALACHITE	Magnetite %	ATTITUDE	VEINS: STRINGERS	VEIN	STOCKWORK	TYPE	AMOUNT	WIDTH (m)	LENGTH (m)	METALLIC MINERALS %: Pyrite	Pyrrhotite	Chalcopyrite	Galena	Sphalerite	Arsenopyrite	Molybdenite	TOTAL	GOLD	ANALYSES: Au ppb	Ag ppm	Cu ppm	ppm	ppm
14R Quartz Vein - milky clear & med-dk grey, v. fine - nearly crypto to fine sugary to coarsely massive; v. minor rusty surfaces? fract., poorly exposed in 1m² area, 10 rox; hosted by chl Andesite	F	X	?/S			X														4				4						1					20 cm	?														
15R Felsite - buff - wht - gyish white; sil equivalent to 16R, mass, v. finely crystalline - aph; minor gstr at least 2 generations, most 1-3 mm wide; varies mass blocky to m fract nonmagn, noncalc, possible A contact ~315°; 10 rx					X	X	1										3	2												K			Q	1	1a														
16R Felsite buff-wht-gyish wht more weakly sil sections (as float) appears to be int-subvolc with matrix sil removed replaced by brownish carb? or bio?; vague 0 eyes as f.g. rounded clear, 10-15%; ep qtz perv; mag diss; v.fg.; local rounded former 'vugs? due to feld. removal?, now filled ē ep; irreg. masses of chl; w ep fract fillings; v w calc hairline fract fill; 20 cm angular bld		X	S			X											3y	2										tr																						
17R Buff alt equivalent of 15R contact ± A not exposed; possible ±4m wide; few w qstr; some tension gashes?			O			X														3y				y						1		Q																	
18R Felsite - v lt. gy-buff - locally bluish gy; mass; highly siliceous locally v finely crystalline elsewhere cherty; s-i brittle; locally much more competent; varies s fract - more mass; w H. orange brn rust; m fract surface; nonmagn; noncalc; appears ~~to~~ be intensely alt. ? feld porph 8 rx; possible trench? along old cat road			S				2	1									4																																	

COMMENTS:

ROCK SAMPLES

GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE ( ) indicates number- eg one "vein"

SAMPLE DESCRIPTION	TYPE: FLOAT/TALUS	LOCAL	OUTCROP/SUB.	COMPOSITE	CHIP	GRAB	m: LENGTH	WIDTH	MAIN MINERALS %: Quartz	Feldspar	(Plagioclase)	Hornblende	Biotite	Chlorite	Carbonate	ALTERATION: GENERAL	CHLORITE	EPIDOTE	CARBONATE	SILICA	POTASSIUM	CLAY	SERICITE	BLEACHED	Saussuritized	OXIDES: "LIMONITE"	MANGANESE	MALACHITE	Magnetite %	ATTITUDE (1. CONTACT 2. BEDDING 3. FOLIATION 4. CLEAVAGE 5. FAULT 6. SHEAR 7. FRACTURE 8. VEIN 9. DYKE 10.)	VEINS: STRINGERS	VEIN	STOCKWORK	TYPE	AMOUNT	WIDTH (m)	LENGTH (m)	METALLIC MINERALS %: Pyrite	Pyrrhotite	Chalcopyrite	Galena	Sphalerite	Arsenopyrite	Molybdenite	?	TOTAL	GOLD	ANALYSES: Au ppb	Ag ppm	Cu ppm	ppm	ppm
#19R Andesite m-dk gn, mass, noncalc, nonmagn, with i dk Mn & limeonite mix, rusty surfaces & on fract. surfaces; trace odd irridesence spotty in oxide mix ⇒ Cu?, minor K-feld fracture fillings			S		x																					x	x											O														
#20R Quartz Diorite - v. lt. gy to near wht, perv. alt; mafics s-i chl generally strongly removed; feld commonly m-s sauss (ep) c? carb. alt?; q as indistinct mass; steel gy metallic?, nonmagn; py locally as sub-euh diss, m-i ox; minor dk gn chl FF often as # selvages on q str; q str v minor nonmagn, noncalc; 3 rx over 0.75 m			S			x			15	x				10		3/4	2	x	?						2/3						1			Q				tr							x							
#21L silt																																																					
#22R Quartz Diorite - Granodiorite? pinkish granophyric dy; mafics <5% m removed locally s removed; matrix q feld mix anhedral intergrowth ~50%, q eyes 20% clear rounded grains; texture indistinct; local r halo around q eyes; minor rare # hairline fract c̄ lim or ep; py anh, s-i ox; nonmagn, noncalc			O			x										2	3/4			O											O							tr														
#23R Felsite / Silicified Andesite? wht-buff, mass, finely crystalline to crypto; trace dk metallic; py remnant; poor chip/grab, blocky fract 350°/72 ENE; looks like a q vn			O			x	3	0.2																														tr							tr							

COMMENTS:

ROCK SAMPLES

GENSTAR 1993

① WEAK ② MODERATE ③ STRONG ④ INTENSE (1) indicates number - eg one "vein"

SAMPLE DESCRIPTION	TYPE: FLOAT/TALUS	LOCAL	OUTCROP/SUB.	COMPOSITE	CHIP	GRAB	m: LENGTH	WIDTH	MAIN MINERALS %: Quartz	Feldspar	(Plagioclase)	Hornblende	Biotite	Chlorite	Carbonate
#24R As 93G-23R but does not have appearance of a q vn; wht v.fg; unknown dk metallic? or chl?? as anh. aggregate; v.mass to well fract Staining indicates Granitic composition			O		x	x	3	2							
#25L silt															
#26L silt															
#27R Quartz vein - milky wht-clear-gy; minor chl masses; minor limeonite FE & surface coatings on angular & elongated rugs; 3 slabs; minimum 20 cm width	F	x				x	1	1						x	
#28R Andesite - highly ox surface; dk r red c minor or brn; py minor brassy most s ox, nonmag noncalc, w brd; 1 highly angular cobble; 15 cm minimum width	F	?													
#29R Felsite? = Rhyolite dy or altA? buff-wht-lt gy, mass, well fract, <5% remnant mafics, c chl vfg; ser w-m as scaley patches, py diss c ox, mass; q vns c red ochre locally hust perv red ochre; one vn c black bio selvage, mg boulders from ? local			S			x									O
#30R Same Felsite/Rhyolite/altA as G29R nil red ochre, c sparse milky crypto q str & coarsely crystalline mass q vns max 5cm c tension gash fillings K-feld fracture fillings			S			x									

SAMPLE	ALTERATION: GENERAL	CHLORITE	EPIDOTE	CARBONATE	SILICA	POTASSIUM	CLAY	SERICITE	BLEACHED	OXIDES: "LIMONITE"	MANGANESE	MALACHITE	Magnetite %	ATTITUDE: 1. CONTACT 2. BEDDING 3. FOLIATION 4. CLEAVAGE 5. FAULT 6. SHEAR 7. FRACTURE 8. VEIN 9. DYKE 10.
#24R							1 2	2						
#25L														
#26L														
#27R										x				
#28R	2								1	3	3			
#29R	?				x			x	?				O	
#30R						1								

SAMPLE	VEINS: STRINGERS	VEIN	STOCKWORK	TYPE	AMOUNT	WIDTH (m)	LENGTH (m)	METALLIC MINERALS %: Pyrite	Pyrrhotite	Chalcopyrite	Galena	Sphalerite	Arsenopyrite	Molybdenite	?	TOTAL	GOLD	ANALYSES: Au ppb	Ag ppm	Cu ppm	ppm	ppm
#24R															tr							
#25L																						
#26L																						
#27R																						
#28R								15														
#29R		x		Q		4cm		tr														
#30R	1			Q	5 cm																	

COMMENTS:

APPENDIX V

Statement of Expenditures

EXPENDITURES:

WAGES:	L. Grexton 16 days @ $200/day	$3200.00
	B.H. Kahlert 1 day @ $400/day	400.00
FOOD & LODGING:	including Fountain Motel, Kamloops (May 1 to 16, 1993)	680.45
TRANSPORTATION:	Toyota Truck Rental @ $198/week	448.00
	Jeep Truck Rental @ $50/day	50.00
	Fuel	115.89
	Mileage (Toyota) @ 15¢/km	342.90
	(Jeep) @ 20¢/km)	128.00
	Coquihalla Highway toll	40.00
FIELD SUPPLIES:	(flagging, sample bags,topofil etc)	146.16
MAGNETOMETER RENTAL:	Scintrex Ltd., Vancouver 2 days @ $50/day	100.00
ANALYSES:	Rossbacher Laboratory, Burnaby	
	4 silt samples at $13.38 each	53.52
	26 rock samples at $16.05 each	417.30
REPORT:	Research, compilation,drafting 5 days @ $160/day	800.00
	Feldspar staining, 3 hrs @ $20/hr	60.00
	Writing, Typing-B.H. Kahlert ½ day @ $400/day	200.00
	-L. Grexton 3½ days @ $200/day	700.00
	Reproduction	150.00
		$8032.22
MISCELLANEOUS @ 10%		803.00
	Total Expenditures:	**$8835.22**

APPENDIX VI

Statement of Qualifications

BERNARD H. KAHLERT P.Eng.

Consulting Geologist
Mineral Exploration

1195 Sutton Place, West Vancouver, B.C. V7S 2L3 Tel. (604) 925-2743

Statement of Qualifications

I, Bernard H. Kahlert, of the City of West Vancouver, in the Province of British Columbia do hereby certify that:

1. I am a Consulting Geologist and a principal in B.H. Kahlert and Associates Ltd. with an office at 1195 Sutton Place, West Vancouver, British Columbia;

2. I am a graduate of the University of British Columbia, 1966 with a Degree of B.Sc. in Geology;

3. I was registered with the Association of Professional Engineers of British Columbia in 1971;

4. I have practiced my profession as an exploration geologist continuously for over 27 years in Canada, the United States and China;

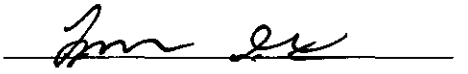
5. I have been employed by major mining, oil and consulting companies;

6. I have a direct interest of 70% in the "Star" and Ripple mining claims discussed in this report.

Statement of Qualifications

I, Lynn Grexton, graduated from the University of Waterloo, Waterloo, Ontario with an Honours Applied Bachelor of Science Degree, Earth Science major, in May 1980. I have worked as an exploration geologist for major companies and consulting firms in the Canadian Cordillera since that time. I have a direct interest of 60% in the Genesis mineral claims discussed in this report.

Vancouver, British Columbia
August 14, 1993



Lynn Grexton, Geologist

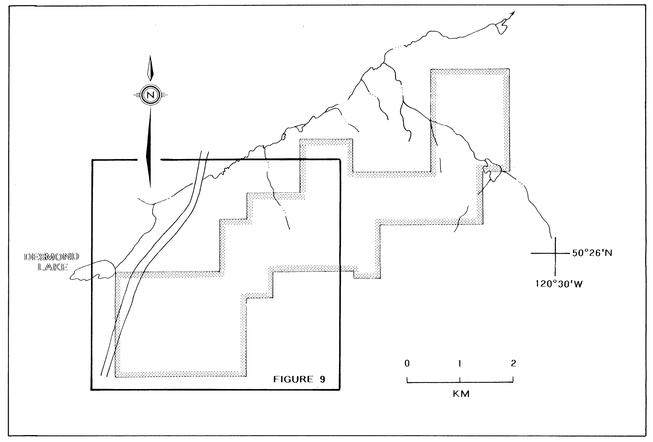


FIGURE 9

L E D G E N D

INTRUSIVE ROCKS

4 Felsic Intrusive Rocks
- A alkaline granite
- B granite
- C quartz monzonite
- D quartz diorite
- E diorite
- AA alkaline rhyolite
- DD dacite
- EE dacite

NICOLA GROUP ROCKS

3 Nonfoliated Volcanic Rocks
- A andesite
- B andesite subvolcanic
- C dioritic equivalent (coarser grained)
- D dacite

2 Foliated Volcanic Rocks
- A andesite
- B andesite subvolcanic
- C dioritic equivalent (coarser grained)

1 Andesite-Basalt: maroon and green flow and pyroclastic rocks
- undivided

calc	calcareous	py	pyrite
fp	feldspar phenocrysts	( )	denotes weak
hem	hematite		

ALTERATION

bio	biotite	musc	muscovite
carb	carbonate	q, q(20cm)	quartz stringers, quartz vein and width
Kfeld	potassium feldspar (stringers, fracture-fillings)	ser	sericite
( )	denotes weak or few		BLEACHED/SILICIFIED ZONE

- Fault
- Geological contact
- Attitudes: fractures; foliation; quartz vein
- G16 / G16 Rock samples: outcrop; local float #93G-16R
- Composite outcrop sample
- G8 Silt sample #93G-8L
- Claim post
- Property boundary
- Old cut grid line
- Pence line
- Roads
- Swamp, bog
- Creek
- Lake, Pond

GENSTAR
PROPERTY GEOLOGY AND GEOCHEMISTRY
(West Half)

Scale 1 : 5000

FIGURE 9