

LOG NO: JUL 18 1994 RD.

ACTION.

G E O P H Y S I C A L R E P O R T

FILE NO:

on the

W P 1-3 C L A I M S

Hedley Area
Similkameen Mining Division

92H-8E
(49 degrees 19 minutes North Latitude)
(120 degrees 11 minutes West Longitude)

for

GRANT F. CROOKER
Box 404
Keremeos, B.C.
V0X 1N0
(Owner and Operator)

by

Grant F. Crooker, P. Geo.
Consulting Geologist

G E O L O G I C A L B R A N C H
JUL 18 1994
A S S E S S M E N T R E P O R T

23,412

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SUMMARY AND RECOMMENDATIONS

The WP Claims are located 8 kilometres southwest of Hedley B.C. in the Hedley Gold Camp of southern British Columbia. The property consists of three claims totalling 56 units.

Placer mining was first carried out in the Hedley area in the 1860's and 1870's with the first hardrock claims being staked in 1896 on Nickel Plate Mountain. The two major producers in the camp were the Nickel Plate and Hedley Mascot mines. Gold production in the Hedley Gold Camp up to 1986 totalled 51 million grams (1.6 million ounces). After a 30 year shutdown, mining commenced at the Nickel Plate mine in 1987 with a milling rate of 2700 tons per day. As of the date of this report, the mine is still in production.

Gold mineralization in the Hedley Camp occurs as both skarn and vein type and occurs within Nicola volcanic and sedimentary rocks. The gold mineralization is spatially related to the Hedley intrusions.

The WP claims are located in a favourable geological environment for gold mineralization. The claims are underlain by the Stemwinder Mountain and Whistle Creek formations of the Nicola Group. A stock of the Hedley intrusions outcrops in the southeastern portion of the claims.

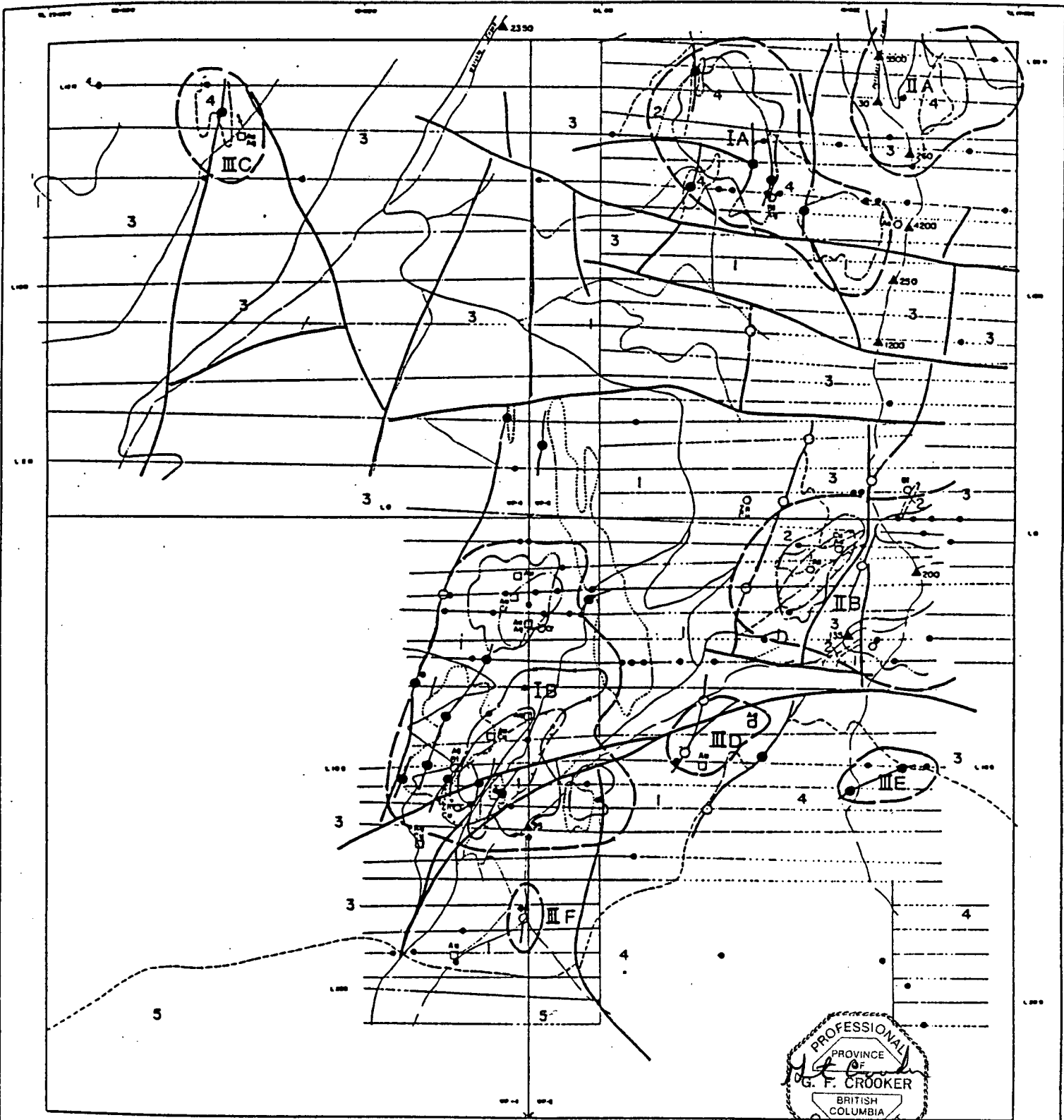
During 1987 and 1988 exploration programs were carried out on the WP property. These programs consisted of establishing a grid over approximately 75% of the property and carrying out geological, geochemical and geophysical surveys over the grid. A heavy metal stream sediment sampling program was also carried out on Whistle and Pettigrew Creeks. Several soil gold geochemical anomalies containing coincidental multi-element values of bismuth, silver, cobalt, copper, arsenic and lead were found on the claims. Combined with magnetic highs and electromagnetic conductor systems, these anomalies constitute attractive target areas warranting further exploration. The heavy metal stream sediment sampling yielded highly anomalous gold and silver values.

There is sufficient geological, geochemical and geophysical evidence to support the theory that the WP claims host Hedley-type gold deposits. A total of eight target areas (Figure 1) have been identified that require detailed exploration.

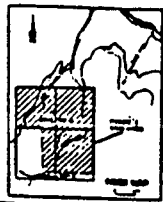
The 1994 program consisted of establishing a grid and carrying out magnetometer and VLF-EM surveys over a portion of the WP 1 claim which had not previously been explored. As no outcrop was located during the geophysical surveys, no geological information was obtained for the grid area.

No prominent magnetic or electromagnetic features were outlined by the geophysical survey.

The magnetics are very quiet with most values falling in the range between 56200 and 56300 nT. A number of weak to moderate VLF-EM conductors were outlined but the lack of outcrop makes interpretation of the causes of the conductors difficult. None of the electromagnetic conductors are associated with magnetic features indicating many of the conductors may not be caused by bedrock structures.



PROFESSIONAL
 PROVINCE
 G. F. CROOKER
 BRITISH COLUMBIA
 GEOSCIENTIST



- ROCK TYPES**
- Early Jurassic
 - CarME Creek shales
 - Med by intrusions
 - Late Triassic (Hessell Group)
 - Whitele Creek Pn.
 - Chaparral conglomerate
 - Thompsonville Ltn. Fm.
 - Geological contact
 - Structural trends

- ALTERATION/MINERALIZATION**
- Pyrite (pd)
 - Silica (st)
 - Pyrite (py)
- ROCK ANOMALIES**
- As, Sb, Ag ppm
 - Bi, Cr, Cu, Al, Pb, Zn, O ppm

- GEOPHYSICAL ANOMALIES**
- Conductors
 - Non magnetic
 - Magnetic (pyrrhotite)
 - Magnetic high (Heavy intrusion)

- GEOCHEMICAL ANOMALIES**
- 5500 500 Au ppb
 - Soil
 - Inter element
 - All elements (St, Ag, Cu, Co, As, Pb)
 - 4 elements
 - 3 elements

- TARGET AREAS**
- | Rating | Priority |
|--------|----------|
| I | First |
| II | Second |
| III | Third |

WP CLAIMS
 COMPILATION MAP
 TARGET AREAS

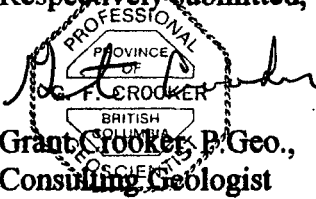
Scale: 1:50,000
 Date: 1981
 Author: G.F. Crooker
 Title: WP Claims Compilation Map Target Areas

FIG 1

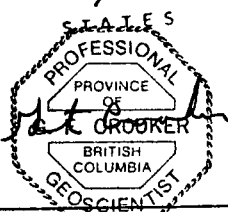
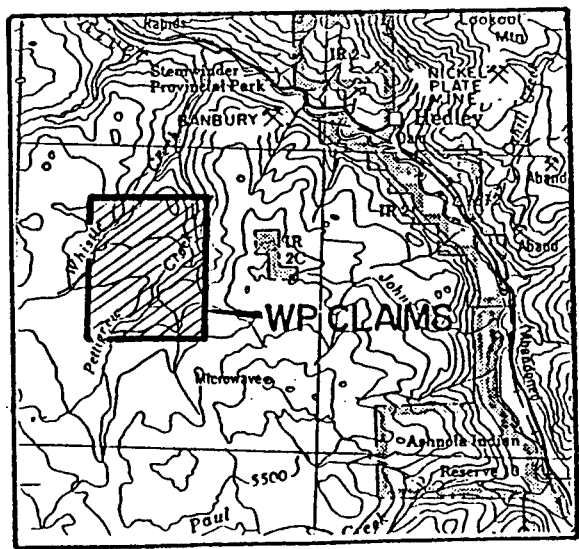
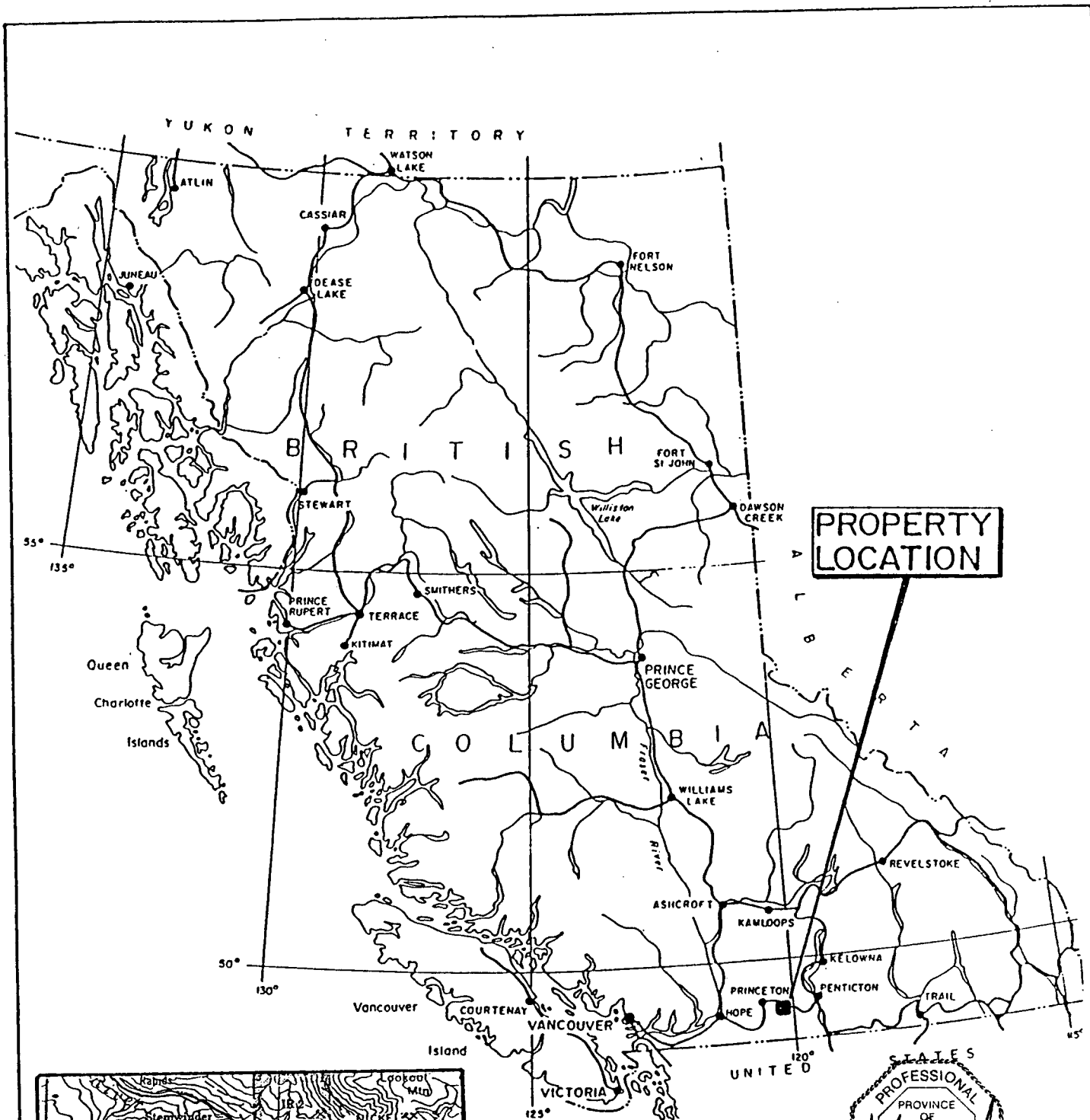
Recommendations are as follows:

- 1) The grid and magnetometer and VLF-EM surveys should be extended over the remainder of the WP 1 claim.
- 2) The target priority areas outlined by previous surveys on the WP claims should be explored by a combination of fill-in geochemical soil sampling, geological mapping, I.P surveying, trenching and reverse circulation drilling.

Respectively submitted,



Grant Crooker, P. Geo.,
Consulting Geologist



GRANT F. CROOKER

WP CLAIMS

LOCATION MAP

N.T.S. 92H-8E SIMILKAMEEN M.D. BC

0 100 200 500 KM.

SCALE AS SHOWN	DATE: 06-94
DRAWN BY: G.F.C.	FIGURE NO. 2

1.0 INTRODUCTION

1.1 GENERAL

Field work was carried out on the WP claims during the spring of 1994 by Grant Crooker, geologist. The grid was expanded into the western portion of the WP 1 claim and magnetometer and VLF-EM surveys carried out over the grid.

1.2 LOCATION AND ACCESS

The property (Figure 2) is located 8 kilometres southwest of Hedley in southern British Columbia. It lies between 49 degrees 17 minutes 30 seconds and 49 degrees 20 minutes north latitude and 120 degrees 9 minutes 30 seconds and 120 degrees 13 minutes west longitude (NTS 92H-8E).

Access to the property is via highway 3A, turning west onto the Sterling Creek logging road 8 kilometres west of Hedley. This logging road is an all weather 2 wheel drive road with the distance to the property being 8 kilometres. A number of 2 wheel drive and 4 wheel drive roads give good access to all but the extreme southeast corner of the property.

1.3 PHYSIOGRAPHY

The property is located along the eastern edge of the Cascade Mountains. Elevation varies from 850 to 1500 metres above sea level and topography varies from flat to steep. Outcrop is generally sparse with the exception of the steep slopes leading into Pettigrew Creek. Pettigrew and Whistle Creeks cut across the claims and a number of smaller tributaries drain into them. Pettigrew Creek contains a substantial flow of water all year round.

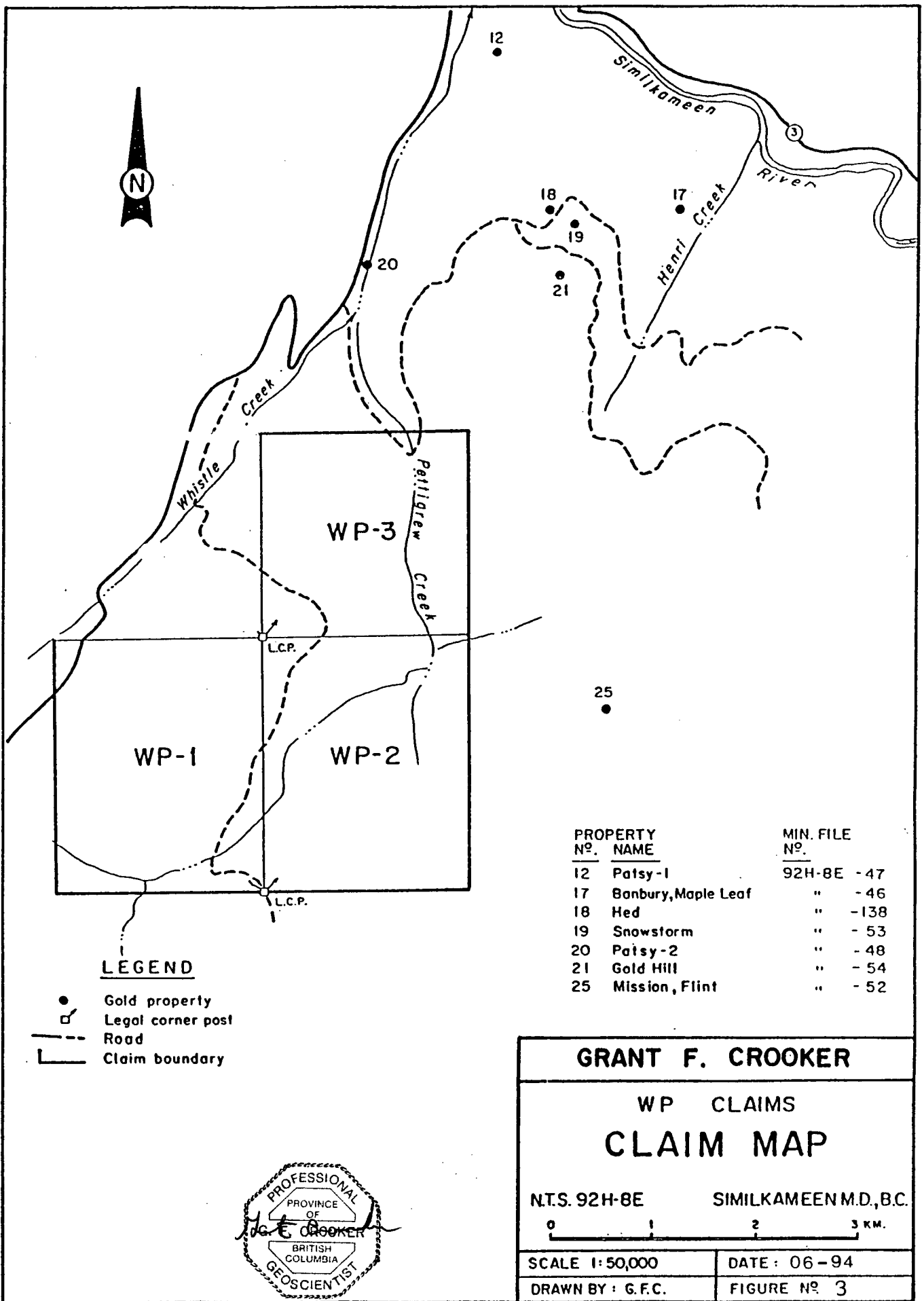
Vegetation varies from open range land to a forest cover of pine, fir, spruce and aspen trees. Large areas of the property were selectively logged 20 or more years ago and clear cutting is being carried out over portions of the property at present.

1.4 PROPERTY AND CLAIM STATUS

The WP 1 to 3 claims (Figure 3) are owned and operated by Grant Crooker of Box 404, Keremeos, B.C.. The property consists of three claims covering 56 units in the Similkameen Mining Division.

Claim	Units	Mining Division	Tenure Number	Record Date	Expiry Date
WP 1	20	Similkameen	249174	12/12/86	12/12/95*
WP 2	20	Similkameen	249175	12/12/86	12/12/96*
WP 3	16	Similkameen	249176	12/12/86	12/12/96*

* Including the work credits from this report.



LEGEND

- Gold property
- Legal corner post
- Road
- - - Claim boundary

PROPERTY NO.	NAME	MIN. FILE NO.
12	Patsy-1	92H-8E - 47
17	Bonbury, Maple Leaf	" - 46
18	Hed	" - 138
19	Snowform	" - 53
20	Patsy-2	" - 48
21	Gold Hill	" - 54
25	Mission, Flint	" - 52

GRANT F. CROOKER

**WP CLAIMS
CLAIM MAP**

N.T.S. 92H-8E

SIMILKAMEEN M.D., B.C.

0 1 2 3 KM.

SCALE 1:50,000

DATE: 06-94

DRAWN BY: G.F.C.

FIGURE NO 3



1.5 AREA AND PROPERTY HISTORY

Placer mining was first carried out in the Hedley area in the 1860's and 1870's. The interest in placer mining led to the discovery of gold on Nickel Plate Mountain in the 1890's, with the first claims being staked in 1896. Many showings were found within the Hedley Gold Camp, both on Nickel Plate Mountain and the surrounding area. The two major producers in the district were the Nickel Plate and Hedley Mascot Mines. Production from the district has been approximately 51 million grams (1.6 million ounces). Almost all of this production occurred in the period from 1905 to 1955.

In the 1970's exploration renewed in the Hedley district. Most of the activity concentrated on properties on Nickel Plate Mountain, however exploration was carried out on the south side of the Similkameen River.

The most important property in the camp is the Nickel Plate mine of Homestake Mining. The gold mineralization is skarn hosted and ore reserves in 1987 were in the order of 9,900,000 tons grading 0.088 ounces gold per ton. The property commenced production in August 1987 with a milling rate of 2,700 tons per day using open pit mining and conventional cyanide gold recovery methods.

A number of gold properties are located on the south side of the Similkameen River north and east of the WP property (Figure 3). Historically, the properties on the south side of the Similkameen River were related to quartz-carbonate vein systems and associated shear zones as opposed to skarn-related mineralization. Recent geological data by Ray (1986/87) have indicated that similiar gold environments exist on the south side.

Work on the WP claim area by previous operators during the period 1981 through 1983 consisted of an airborne magnetometer and VLF-EM survey and a reconnaissance type soil geochemical survey. The soil geochemical survey indicated a number of weak to moderate coincidental Ag-As-Cu-Zn anomalies. Gold values were spotty and in most cases low.

Work programs on the WP claims during 1986 and 1987 consisted of establishing approximately 115 kilometres of grid and carrying out geological, geochemical and geophysical surveys over the grid. A combination of these geological, geochemical and geophysical paramaters indicated 8 target areas (Figure 1) which warrant further exploration.

2.0 EXPLORATION PROCEDURE

The 1994 program consisted of establishing a grid over the western portion of the WP 1 claim and carrying out magnetometer and VLF-EM surveys.

GRID PARAMETERS

- baseline direction N-S along 800 west
- survey lines perpendicular to baseline
- survey line separation 100 metres
- survey station spacing 25 metres
- survey total - 16.9 - kilometres
- declination 21 degrees

GEOPHYSICAL SURVEY PARAMETERS

TOTAL FIELD MAGNETIC SURVEY

- survey line spacing 100 metres
- survey station spacing 25 metres
- survey total - 16.9 - kilometres
- instrument - Scintrex MP-2 magnetometer
- measured total magnetic field in nanoteslas
- instrument accuracy 1 nanotesla

Readings were taken along the baseline to obtain standard readings for all baseline stations. All loops run off the baseline were then corrected to these standard values by the straight line method. The operator faced north for all readings. The total field magnetic data was plotted on figure 6 at a scale of 1:5000 and the data listed in Appendix II.

VLF-EM SURVEY

- survey line spacing 100 metres
- survey station spacing 25 metres
- survey total - 15 - kilometres
- instrument - Phoenix VLF-2
- transmitting station - Seattle - 24.8 KHz.
- dip angle measured in degrees at each station
- + north dip, - south dip
- maximum field strength measured in percent at each station

The dip angle and maximum field strength profiles were plotted on figures 7 and 8 respectively at a scale of 1:5000. The data is listed in Appendix II.

3.0 GEOLOGY AND MINERALIZATION

3.1 REGIONAL GEOLOGY

The Hedley Gold Camp is located within the Intermontane Belt of the Canadian Cordillera.

The oldest rocks in the area belong to the Apex Mountain Group (Figure 4) and occur in the southeastern part of the camp. The Apex Mountain Group consists of a deformed package of cherts, argillites, greenstones, tuffaceous siltstones and minor limestones believed to range in age from Upper Devonian to Middle to Late Triassic.

The remainder of the Hedley Gold Camp is underlain by Late Triassic Nicola Group volcanic and sedimentary rocks, and stocks, sills and dykes ranging in composition from granodiorite to gabbro.

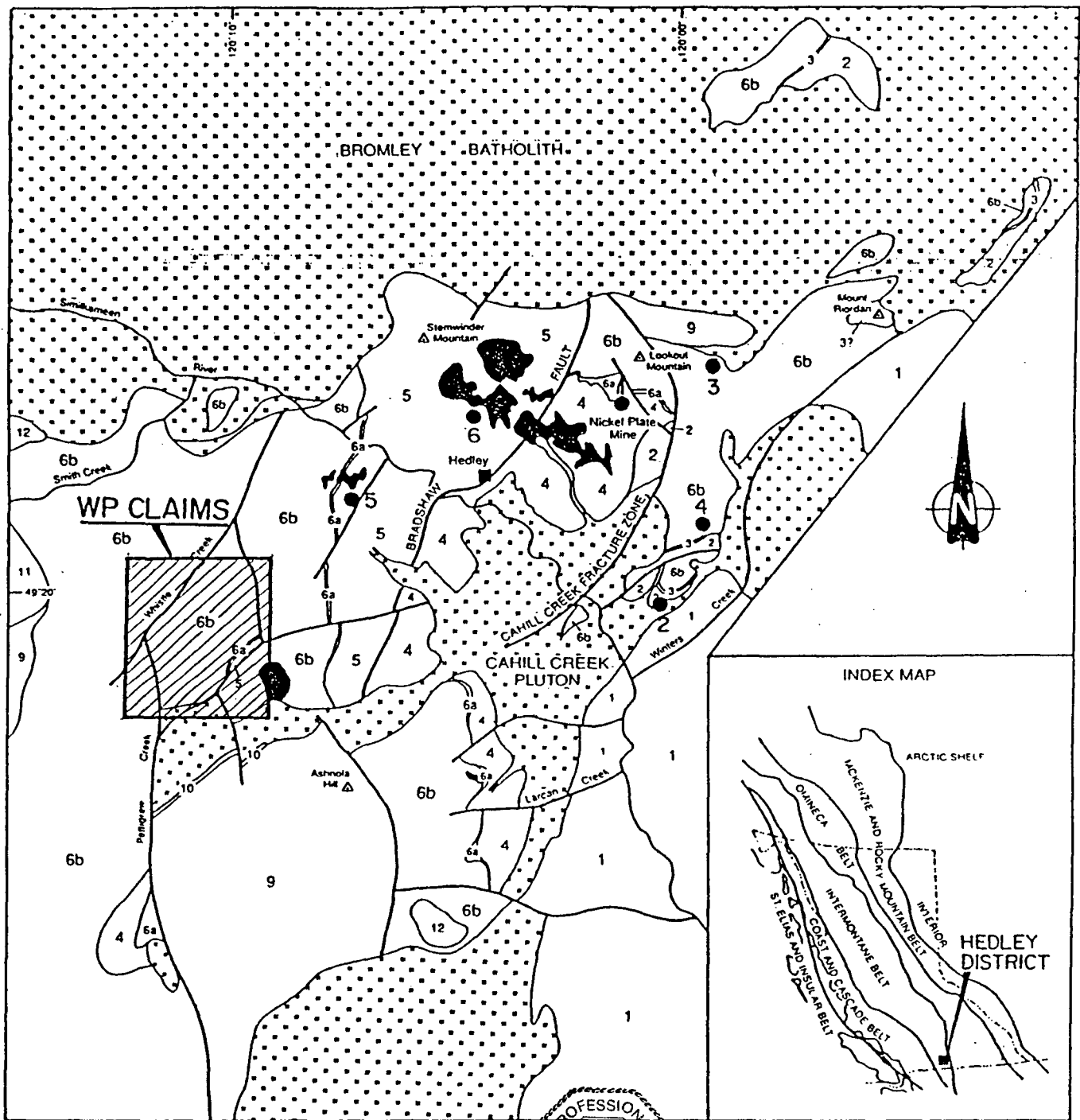
Mapping by Ray and Dawson divides the Nicola Group into three distinct stratigraphic packages. The oldest, called the Peachland Creek formation, comprises massive, mafic quartz-bearing andesitic to basaltic ash tuff and minor chert-pebble conglomerate. This previously unrecognized basal unit is poorly exposed in the Hedley district, but has been identified in several localities. This formation is named after a major tuffaceous sequence which underlies the Hedley formation in the Penask Mountain area, 30 kilometres west of Peachland.

The Peachland Creek formation is stratigraphically overlain by a 100 to 700 metre thick sedimentary sequence in which a series of east-to-west facies changes are recognized. This sequence progressively thickens westward and the facies changes probably reflect deposition across the tectonically controlled margin of a northwesterly deepening Late Triassic marine basin.

The easternmost and most proximal facies, called the French Mine formation has a maximum thickness of 150 metres and comprises massive to bedded limestone interlayered with thinner units of calcareous siltstone, chert-pebble conglomerate, tuff, limestone-boulder conglomerate and limestone breccia. This formation hosts the auriferous skarn mineralization at the French and Goodhope mines.

Further west, rocks stratigraphically equivalent to the French Mine formation are represented by the Hedley formation which hosts the gold-bearing skarn at the Nickel Plate mine. The Hedley formation is 400 to 500 metres thick and characterized by thinly bedded, turbiditic calcareous siltstone and units of pure to gritty, massive to bedded limestone that reach 75 metres in thickness and several kilometres in strike length. The formation includes lesser amounts of argillite, conglomerate and bedded tuff; locally the lowermost portion includes minor chert-pebble conglomerate.

The westernmost, more distal facies is represented by the Stemwinder Mountain formation which is at least 700 metres thick and characterized by a sequence of black, organic-rich, thinly bedded calcareous argillite and turbiditic siltstone, minor amounts of siliceous fine-grained tuff and impure limestone beds. The Stemwinder formation hosts the gold occurrences at Banbury (vein) and Peggy (skarn).



GEOLOGY AFTER G. E. RAY, B.C.D.M. 1987

LEGEND

TERTIARY

12 Basaltic flows

EROSIONAL UNCONFORMITY

EARLY CRETACEOUS

11 VERDE CREEK INTRUSION - granite and microgranite

10 RHYOLITE INTRUSION - quartz porphyry

9 SPENCES BRIDGE GROUP - andesitic to dacitic pyroclastics and flows with minor sediments

CONTACT UNCERTAIN

EARLY JURASSIC

8 BROMLEY BATHOLITH AND CAHILL CREEK PLUTON - granodiorite to quartz monzonite

7 HEDLEY INTRUSION - quartz diorite, diorite, and gabbro

INTRUSIVE CONTACT

LATE TRIASSIC

6a WHISTLE CREEK FORMATION - bedded to massive ash and tuffite tuff, minor lufaceous siltstone

6a Copperfield Conglomerate - limestone boulder conglomerate

5 STEMWINDER MOUNTAIN FORMATION (WESTERN FACIES) - thinly bedded argillite and limestone

4 HEDLEY FORMATION (CENTRAL FACIES) - thinly bedded siltstone, thick limestone beds and minor tuffs

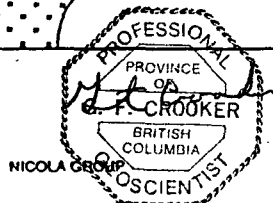
3 FRENCH MINE FORMATION (EASTERN FACIES) - limestone, limestone breccia and pebble conglomerate

2 PEACHLAND CREEK FORMATION - basaltic ash tuffs and flows with minor limestone and chert-pebble conglomerate

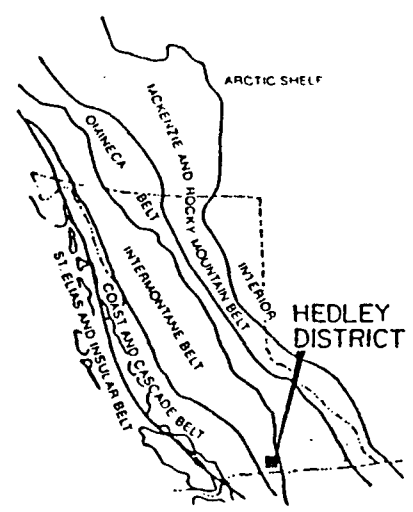
CONTACT OCCUPIED BY CAHILL CREEK PLUTON

PALEOZOIC

1 APEX MOUNTAIN COMPLEX - ophiolite sequence of chert, greenstones, siltstones, argillites and minor limestones



INDEX MAP



● GOLD OCCURRENCES

LOCATION NO.

NAME

- 1 NICKEL PLATE MINE (producing 1987)
- 2 FRENCH MINE
- 3 CANTY MINE
- 4 GOODHOPE MINE
- 5 BANBURY GOLD MINE
- 6 PEGGY (Hedley Area) (patented)

GRANT F. CROOKER

WP CLAIMS
REGIONAL GEOLOGY
HEDLEY DISTRICT

N.T.S. 92H-8E

SMILKAMEEN M.D., B.C.



SCALE: AS SHOWN

DATE: 06-94

DRAWN BY: G.F.C.

FIGURE NO. 4

The sedimentary rocks of the French Mine, Hedley and Stemwinder formations pass stratigraphically upward into the Whistle Creek formation which is probably Late Triassic in age. The formation is 700 to 1200 metres thick and is distinguishable from the underlying rocks by a general lack of limestone and a predominance of andesitic volcanoclastic material. The Whistle Creek formation is host to the Cauty (skarn) and Gold Hill (vein) gold occurrences.

The base of the Whistle Creek Formation is marked by the Copperfield conglomerate, a limestone-boulder conglomerate that forms the most distinctive and important stratigraphic marker horizon in the district. The conglomerate is well developed west of Hedley where it forms a northerly trending, steeply dipping unit that is traceable for over 15 kilometres along strike.

The Whistle Creek formation is overlain by volcanoclastic rocks that may belong to the Early Cretaceous Spences Bridge Group.

Three suites of plutonic rocks are recognized in the area. The oldest, the Hedley intrusions is probably Early Jurassic in age and is economically important. It forms major stocks up to 1.5 kilometres in diameter and swarms of thin sills and dykes up to 200 metres in thickness and over 1 kilometre in length. The sills and dykes are coarse-grained and massive diorites and quartz diorites with minor gabbro, while the stocks range from gabbro through granodiorite to quartz monzonite. This plutonic suite is genetically related to the skarn-hosted gold mineralization in the district including that at the Nickel Plate, Hedley Mascot, French and Goodhope mines, and gold occurrences at Banbury, Goldhill, Peggy and Cauty.

The second plutonic suite is the Early Jurassic Similkameen intrusions which comprises coarse-grained, massive, biotite hornblende granodiorite to quartz monzodiorite. It generally forms large bodies, for example, the Bromley batholith, and Cahill Creek pluton which separates the Nicola Group rocks from the highly deformed Apex Mountain complex.

The third and youngest intrusive suite includes two rock types that are possibly coeval and related to the formation of the dacitic volcanoclastic rocks within the Spences Bridge Group. One of these, the Verde Creek stock comprises a fine to medium grained, massive leucocratic microgranite that contains minor biotite. The other type is represented by fine-grained, leucocratic, felsic quartz porphyry.

3.2 CLAIM GEOLOGY

The WP claims are mainly underlain by Nicola Group volcanic and sedimentary rocks (Figure 5). These include both the Whistle Creek and Stemwinder Mountain formations. Two suites of intrusive rocks have intruded the Nicola Group. These include a stock of the Hedley intrusions in the southeastern portion of the claims and the Cahill Creek pluton in the southern portion of the claims.

Six rock units were mapped on the property. The oldest unit (Unit 1) consists of rocks of the Stemwinder Mountain formation which is characterized by a sequence of black, organic rich, thinly bedded calcareous argillite and turbiditic siltstone, minor amounts of siliceous fine-grained tuff and dark impure limestone beds that seldom exceed 3 metres in thickness.

Unit 2 is the Copperfield conglomerate which generally marks the boundary of the Stemwinder Mountain and Whistle Creek formations. The unit varies from clast to matrix supported but is usually matrix supported, and is composed of well rounded to angular limestone clasts up to 1 metre in width. The largest exposure of this unit on the property is 25 metres wide and 75 metres long.

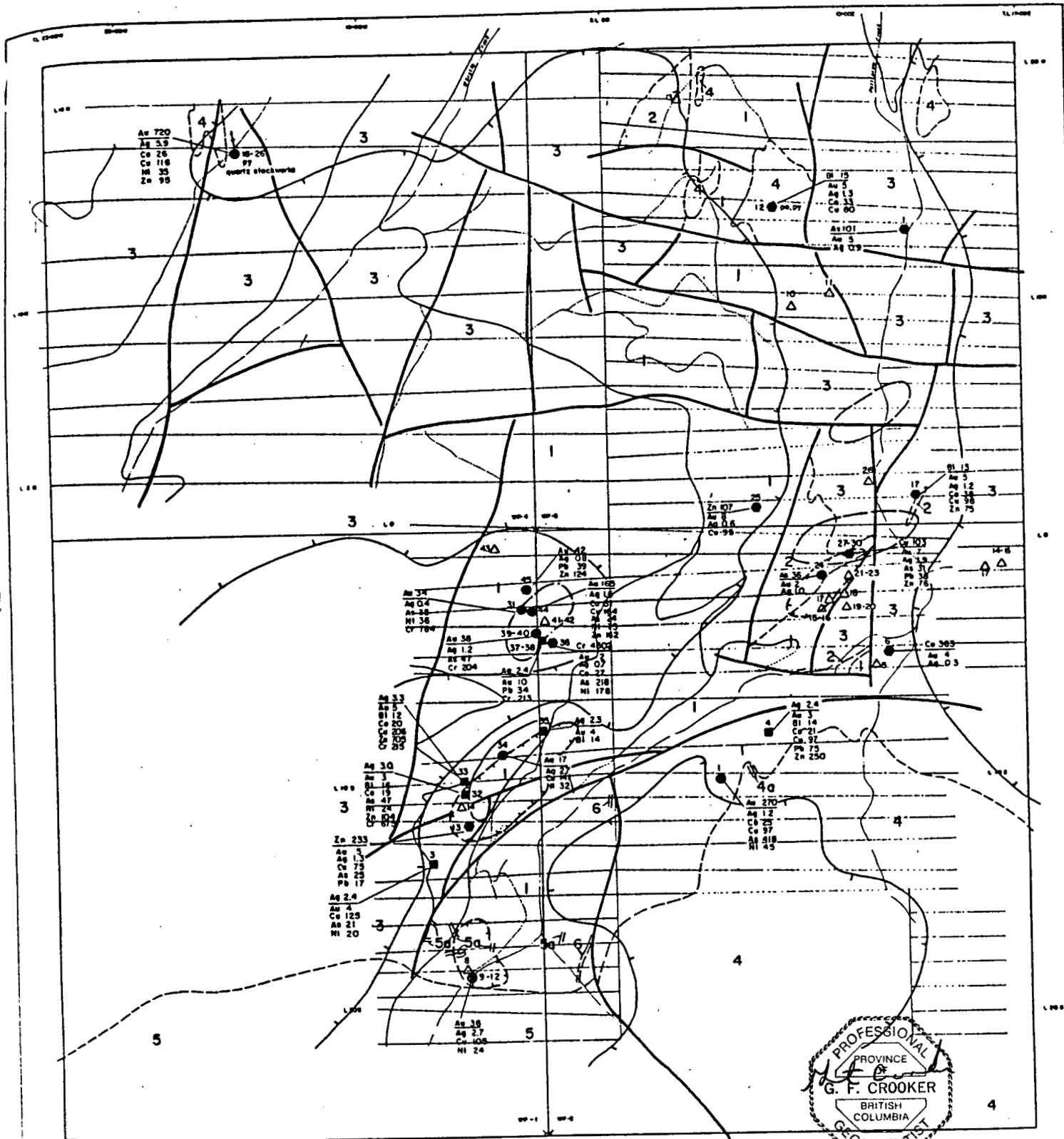
Unit 3 is made up of rocks of the Whistle Creek formation which is the predominate rock type on the claims. The lower portion of the unit is predominately sedimentary while higher in the unit it becomes more volcanic in nature.

The Whistle Creek formation can be further subdivided into units 3a (well indurated grey argillite and tuffaceous argillite), 3b (massive to bedded dark green andesite tuff), 3c (angular to subangular clasts of grey to black argillite within a fine-grained green tuff) and 3d (thinly bedded grey to blue limestone). Units 3a and 3b comprise the majority of outcrops on the property with only minor outcrops of units 3c and 3d.

The general strike of the units is north to northeasterly, with dips predominately steep to the west. The subunits are often narrow, interbedded and of mixed lithologies making mapping difficult.

Unit 4 is a medium to coarse grained hornblende diorite of the Hedley intrusions. This unit forms a stock in the southeastern portion of the property, with a few scattered dykes and sills occurring over the remainder of the property.

Unit 5 is composed of rocks of the Cahill Creek pluton which is generally a medium grained biotite hornblende granodiorite. This unit intrudes the Nicola Group in the southern portion of the property.



As 720
Fe 53
Cu 26
Co 116
Ni 33
Zn 98

Bi 15
As 5
Ag 13
Cu 13
Co 80

As 101
As 5
Ni 69

As 34
Ag 0.4
As 38
Ni 36
Cr 704

As 36
Ag 1.2
Ni 47
Cr 204

As 10
Ni 34
Ni 213

As 10
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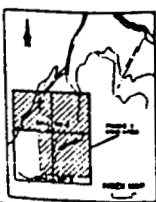
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- ROCK TYPES**
- 6 Glacial cover (extensive overburden)
 - 6 Feldspar porphyry dyke
 - Early Jurassic
 - 5 Cedar Creek pluton (5a dyke)
 - 4 Hodely intrusions (4a dyke)
 - Late Triassic (Nicome Group)
 - 3 Whistler Creek Fm.
 - 2 Copperfield conglomerate
 - 1 Stomwinder Mtn. Fm.

- SYMBOLS**
- Geological contact
 - Structural trends
 - Rock sample location & No.
 - Anomalous As in opb
 - Ag in opm
 - Interelement anomalous values in ppm (Bi, Co, Cu, Al, Pb, Ni, Zn, Cr)

- ALTERATION / MINERALIZATION**
- Pyrite (opt)
 - Pyrrhotite (opt)
 - Silicification / argillite
 - Carbonate



WP CLAIMS GEOLOGICAL INTERPRETATION

DATE: 1984
SCALE: 1:50,000
PROJECT NO: 82

FIG 5

3.3 MINEALIZATION

The gold occurrences and deposits within the Hedley area are spatially associated with dioritic bodies of the Hedley intrusions. The gold mineralization can be broadly divided into skarn (s) and vein (v) related types.

The skarn-type mineralization is the most widespread and economically important, and is characterized by the gold being intimately associated with variable quantities of sulphide bearing garnet-pyroxene-carbonate exoskarn alteration. The gold tends to be associated with sulphides, particularly arsenopyrite, pyrrhotite and chalcopyrite. Present in lesser amounts are pyrite, gersdorffite and calcium rich sphalerite with minor amounts of magnetite and cobalt minerals. Trace minerals include galena, native bismuth, electrum, tetrahedrite and molybdenite. This type of mineralization is found at the Nickel Plate, Hedley Mascot and most other properties in the area.

The skarn-type mineralization is generally stratabound and follows calcareous tuffs and limestones within the upper parts of the Hedley, French Mine and Stemwinder Mountain formations. Swarms of diorite sills and dykes or larger bodies of the Hedley intrusions have intruded the favourable beds and hornfelsed them. Both the intrusions and sediments were subsequently overprinted with the skarn alteration.

The vein-type mineralization is characterized by gold and sulphides hosted in higher level, fracture-filled quartz-carbonate vein systems. This type of mineralization is seen only at the Banbury and Gold Hill properties.

At the Banbury property two elongate stocks of the Hedley intrusions some 300 metres wide by 1.3 kilometres long intrude both the Hedley and Whistle Creek formations. A hornfelsed aureole surrounds the stocks and both are cut by northerly trending fracture zones which are filled by steep and shallow dipping quartz-carbonate vein systems.

Exploration on the WP claims has been directed towards both the skarn and vein type mineralization. Several mineralized outcrops containing pyrite and pyrrhotite with associated gold and silver values occur on the WP claims. Siliceous-argillite and carbonate zones of alteration are present and hornfels occur peripheral to the intrusives. In most cases, the mineralized zones are poorly exposed. The anomalous gold and silver samples, along with the inter-related anomalous elements of Bi, Co, Cu, As, Pb, Ni, Zn and Cr, are indicated on figure 5.

The highest gold value (270 ppb) comes from a pyritic cherty argillite (Stemwinder Mountain) peripheral to the Pettigrew stock. The sample is also anomalous in As, Ni and Co. The most significant cluster of gold values (165, 42, 38, 34 ppb) are associated with rusty silicified argillites (Stemwinder Mountain). These rocks are also anomalous in Cu, Ni, As, Pb and Zn.

A cluster of anomalous silver values (3.3, 2.6, 2.3 ppm) are associated with a coincidental pyrite-pyrrhotite zone within tuffs and argillites of the Stemwinder Mountain formation. Anomalous values of As, Cu, Zn, Pb, Ni, Bi, and Co are present but gold is near background.

4.0 GEOPHYSICS

4.1 MAGNETOMETER SURVEY

A total field magnetic survey was carried out on lines 0 to 9S (Figure 6). The magnetic response was weak with values ranging from 55920 to 56806 nT.

The majority of values on the grid ranged between 56200 and 56300 nT. A number of narrow, linear, north-south trending zones of magnetism slightly above and below these values occur within the grid area. These linear features strike north to northeasterly and may represent slightly more or less magnetic units within the Whistle Creek formation.

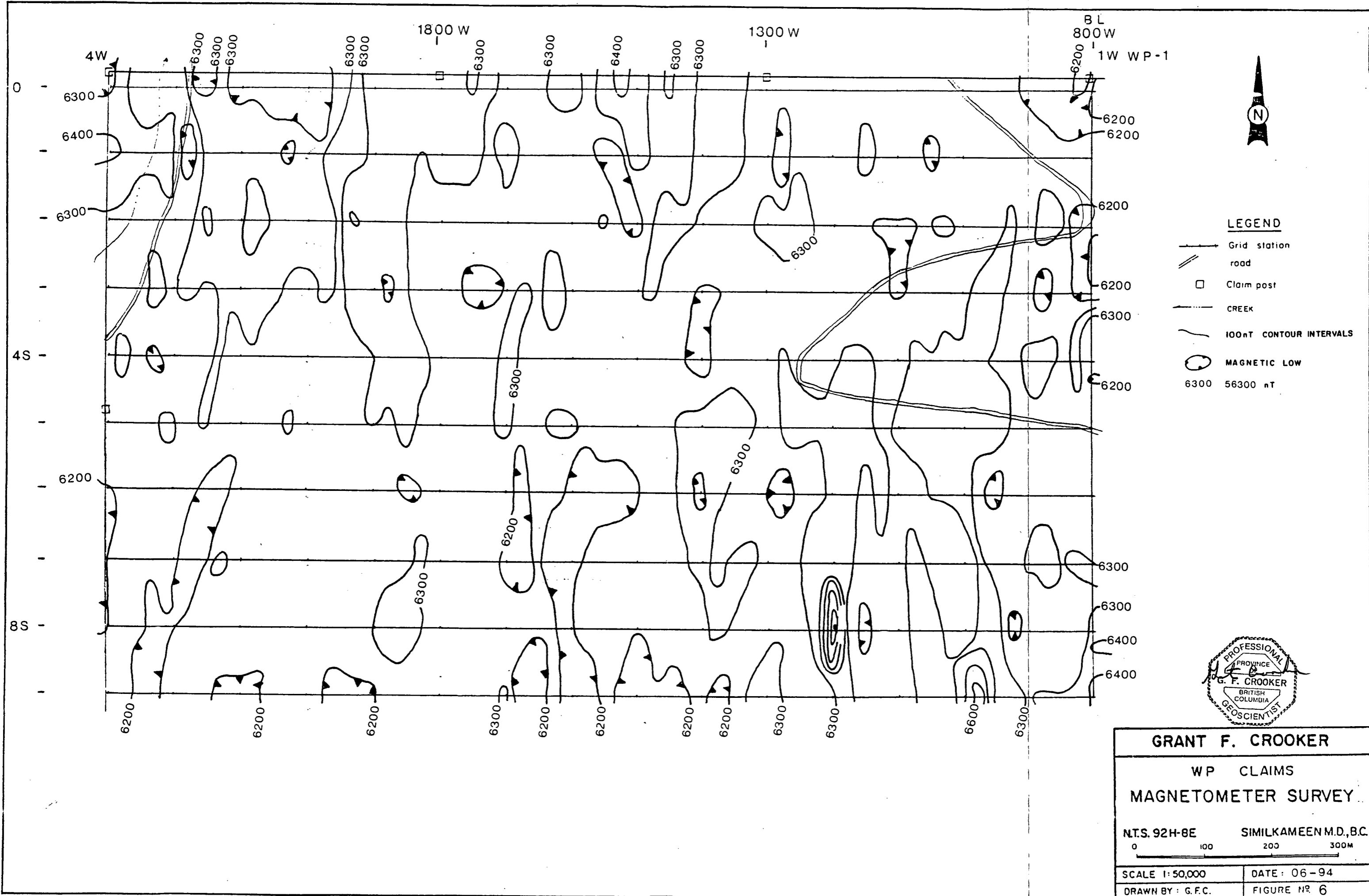
Two locations on the grid gave slightly higher magnetic values of 56610 (L9S + 975W) and 56806 (L8S + 1200W) nT. These two locations may represent areas with concentrations of magnetic minerals such as magnetite or pyrrhotite.

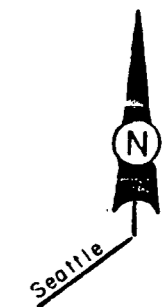
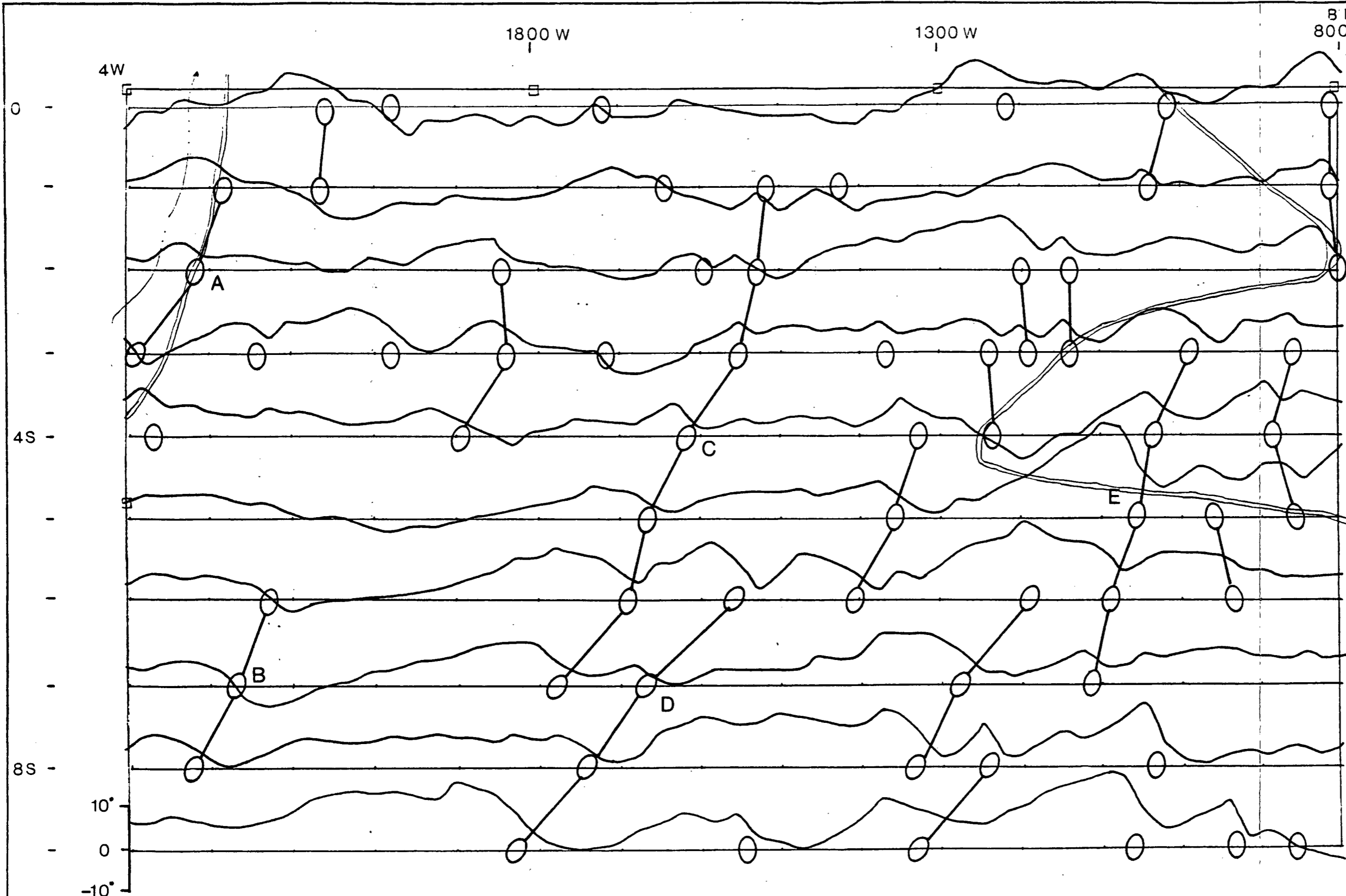
4.2 VLF-EM SURVEY

A VLF-EM survey was carried out on lines 0 to 9S. The dip angle (Figure 7) and maximum field strength (Figure 8) were measured at each grid station.

A few stations gave field strength values slightly above background. These slightly higher than background values occur coincidentally with conductors on line 0 at 1975W and 2050W, on line 2S at 1200W, on line 6S at 1550W and on line 7s at 1275W.

A number of weak to moderate VLF-EM conductors were outlined by the survey. They are northerly trending and exhibit short to moderate wavelengths. None of the conductors appear to be associated with magnetic features. As there is no outcrop exposure, no causes are evident for the conductors. The longest conductor system is C, which has a strike length of 600 metres.

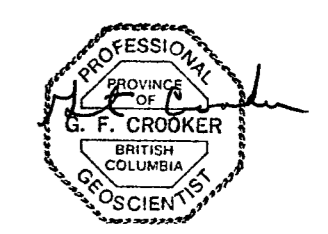




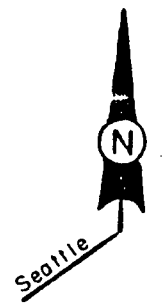
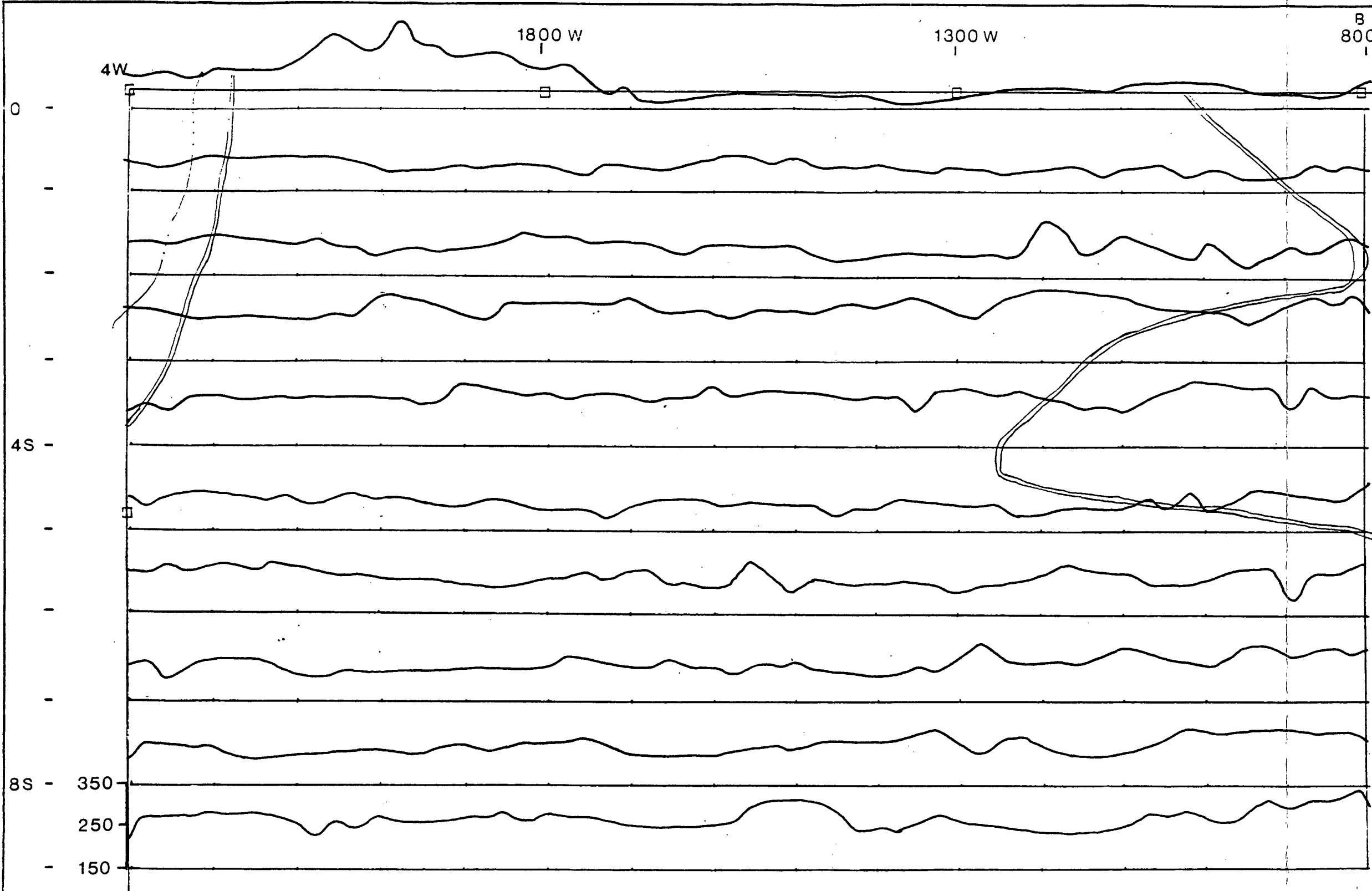
LEGEND

- Grid station
- road
- Claim post
- CREEK
- ANOMALOUS INFLECTION
- DIP ANGLE DEGREES
- VLF-EM CONDUCTOR

NLK, SEATTLE WASHINGTON
= 24.8 KHz



GRANT F. CROOKER	
WP CLAIMS VLF - EM PROFILE DIP ANGLE	
N.T.S. 92H-8E	SIMILKAMEEN M.D., B.C.
SCALE 1:50,000	DATE: 06-94
DRAWN BY: G.F.C.	FIGURE NO. 7



LEGEND

- Grid station
- road
- Claim post
- CREEK
- FIELD STRENGTH PERCENT

NLK, SEATTLE WASHINGTON
= 24.8 KHz



GRANT F. CROOKER

WP CLAIMS
VLF - EM PROFILE
FIELD STRENGTH
N.T.S. 92H-8E SIMILKAMEEN M.D., B.C.



SCALE 1:50,000	DATE: 06-94
DRAWN BY: G.F.C.	FIGURE № 8

5.0 CONCLUSIONS AND RECOMMENDATIONS

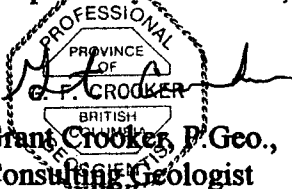
No prominent magnetic or electromagnetic features were outlined by the geophysical survey.

The magnetics are very quiet with most values falling in the range between 56200 and 56300 nT. A number of weak to moderate VLF-EM conductors were outlined but the lack of outcrop makes interpretation of the causes of the conductors difficult. None of the electromagnetic conductors are associated with magnetic features indicating many of the conductors may not be caused by bedrock structures.

Recommendations are as follows:

- 1) The grid and magnetometer and VLF-EM surveys should be extended over the remainder of the WP 1 claim.
- 2) The target priority areas outlined by previous surveys on the WP claims should be explored by a combination of fill-in geochemical soil sampling, geological mapping, I.P surveying, trenching and reverse circulation drilling.

Respectively submitted,


Grant Crocker, P. Geo.,
Consulting Geologist

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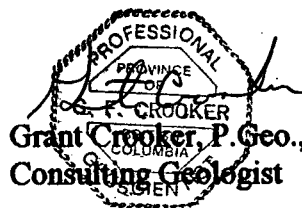
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7.0 CERTIFICATE OF QUALIFICATIONS

I, Grant F. Crooker, of Upper Bench Road, Keremeos, in the Province of British Columbia, Hereby certify as follows:

- 1.0 That I graduated from the University of British Columbia in 1972 with a Bachelor of Science Degree in Geology.
- 2.0 That I have prospected and actively pursued geology prior to my graduation and have practised my profession since 1972.
- 3.0 That I am a Member of the Canadian Institute of Mining and Metallurgy.
- 4.0 That I am a Fellow of the Geological Association of Canada.
- 5.0 That I am a Professional Geoscientist registered with the Association of Professional Engineers and Geoscientists of the Province of British Columbia (No. 18,961).
- 6.0 That I am the Owner of the WP 1-3 mineral claims.

Dated this 15th day of June , 1994 , at Keremeos, in the Province of British Columbia.



APPENDIX I

GEOPHYSICAL EQUIPMENT SPECIFICATIONS

PHOENIX Geophysics Limited
VLF-2

PARAMETERS MEASURED	Orientation and magnitude of the major and minor axes of the ellipse of polarization.
FREQUENCY SELECTION, FRONT	Dual channel, front panel selectable, (F1 or F2) each with independent precision 10-turn dial gain control.
FREQUENCY SELECTION, INTERNAL	F1 and F2 can be selected by internal switches within the range 14.0 to 29.9 KHz in 100 Hz increments.
DETECTION AND FILTERING	Superheterodyne detection and digital filtering provide a much narrower bandwidth and thus greater rejection of interfering stations and 60 cycle noise than conventional receivers.
METER DISPLAY	2 ranges: 0 to 300 or 0 to 1000. Background is typically set at 100. Meter is also used as dip angle null indicator and battery test.
AUDIO	Crystal speaker. 2500 Hz used as null indicator.
CLINOMETER	plus or minus 90 degrees, 0.5 degree resolution. Normal locking, push button release.
BATTERY	One standard 9v transistor radio battery. Average life expectancy 1 to 3 months (battery drain is 3 mA).
TEMPERATURE RANGE	-40 degrees to =60 degrees.
DIMENSIONS	8 x 22 x 14 cm (3 x 9 x 6 inches)
WEIGHT	850 grams (1.9 pounds)
MANUFACTURER	Phoenix Geophysics Limited 200 Yorkland Boulevard Willodale, Ontario M2J 1R6

APPENDIX II
VLF-EM AND MAGNETIC DATA

Grant Crooker Data Listing

Line and Station + = northing/easting

- = southing/westing

Grid: WP Claims

File Name: WPgeophy

Date: May, 1994

Mag and VLF Survey

Instrument Type:

Details

Scintrex MP-2

Corrected Total Field Magnetic Values

Phoenix VLF-2

Dip Angle and Horizontal Field Strength

Data Types: #1

Corrected Total Field Magnetic Values (nT)

#2

Dip Angle (degrees)

#3

Horizontal Field Strength (percent)

N/S Line line 000	E/W Station	1	2	3
0	-800	56210	8	225
0	-825	56094	12	200
0	-850	56168	10	180
0	-875	56150	6	180
0	-900	56156	4	190
0	-925	56252	4	190
0	-950	56269	1	190
0	-975	56233	0	210
0	-1000	56223	2	215
0	-1025	56214	4	210
0	-1050	56237	7	215
0	-1075	56261	6	210
0	-1100	56212	4	205
0	-1125	56291	5	190
0	-1150	56279	6	200
0	-1175	56288	5	200
0	-1200	56236	6	200
0	-1225	56231	9	200
0	-1250	56252	11	190
0	-1275	56252	10	190
0	-1300	56278	4	175
0	-1325	56292	3	170
0	-1350	56307	-1	170
0	-1375	56312	-1	170
0	-1400	56358	-4	180
0	-1425	56279	-4	180
0	-1450	56307	-2	180
0	-1475	56280	-2	180
0	-1500	56394	-2	180
0	-1525	56414	-2	185
0	-1550	56388	-1	185
0	-1575	56233	0	185
0	-1600	56347	1	185
0	-1625	56309	2	180
0	-1650	56292	-2	170

0	-1675	56282	-2	170
0	-1700	56283	-2	190
0	-1725	56324	1	190
0	-1750	56279	-4	215
0	-1775	56325	-4	260
0	-1800	56307	-2	250
0	-1825	56320	-4	260
0	-1850	56304	-2	285
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0	-1900	56346	-2	280
0	-1925	56271	-2	300
0	-1950	56381	-6	310
0	-1975	56255	-2	360
0	-2000	56254	2	290
0	-2025	56201	2	300
0	-2050	56217	5	320
0	-2075	56274	8	300
0	-2100	56276	9	260
0	-2125	56315	5	250
0	-2150	56234	4	250
0	-2175	56301	2	240
0	-2200	56275	2	250
0	-2225	56243	3	230
0	-2250	56209	0	240
0	-2275	56342	0	230
0	-2300	56264	-4	240
line -100				
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-100	-825	56251	6	210
-100	-850	56244	4	205
-100	-875	56244	4	205
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line -200				
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	-400	-1550	56229	4	280
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	-400	-1600	56231	2	290
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-400	-2150	56220	5	260
-400	-2175	56226	6	260
-400	-2200	56224	6	270
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-500	-875	56269	12	230
-500	-900	56293	12	230
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	-500	-1650	56236	2	220
	-500	-1675	56235	6	220
	-500	-1700	56351	7	200
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	-500	-1950	56232	-2	220
	-500	-1975	56244	-3	230
	-500	-2000	56273	-2	220
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	-500	-2050	56281	1	230
	-500	-2075	56260	0	210
	-500	-2100	56227	2	230
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	-500	-2150	56312	4	230
	-500	-2175	56227	5	230
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	-500	-2250	56242	6	230
	-500	-2275	56252	6	210
	-500	-2300	56261	5	230
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	-600	-850	56212	6	245
	-600	-875	56237	5	250
	-600	-900	56206	7	190
	-600	-925	56238	7	260
	-600	-950	56182	10	255
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	-600	-1100	56235	12	250
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	-600	-1175	56347	16	270
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	-800	-875	56243	4	270
	-800	-900	56202	2	280
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	-800	-950	56393	2	280
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	-800	-1100	56221	8	220
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baseline -800

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-800	-1800	56100
-800	-1825	56141
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APPENDIX III
COST STATEMENT

COST STATEMENT

SALARIES

Grant Crooker, Geologist
Mar 27-29, April 15, May 3, 7, 24, 25, 27, 29, 31
June 1, 2, 5, 6, 14, 1994
16 days @ \$ 400.00/day \$ 6,400.00

MEALS AND ACCOMMODATION

Grant Crooker - 12 days @ \$ 60.00/day 720.00

TRANSPORTATION

Vehicle Rental (Chev 3/4 ton 4 x 4)
12 days @ \$ 60.00/day 720.00

Gasoline 180.00

EQUIPMENT RENTAL

Magnetometer - Scintrex MP-2
April 15, May 7, 25, 27, 31, June 1, 1994
6 days @ \$ 25.00/day 150.00

VLF-EM - Phoenix VLF-2
March 27-29, May 3, 24, 29, 1994
6 days @ \$ 50.00/day 150.00

SUPPLIES

Hipchain thread, flagging etc. 75.00

DRAFTING 200.00

PREPARATION OF REPORT

Secretarial, reproduction, office overhead etc. 500.00

Total \$ 9,095.00