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| ACTION: | |
| FILE NO: | |

**GEOLOGICAL AND GEOPHYSICAL REPORT
ON THE BLACK CLAIMS**

| <u>Claim Name</u> | <u>Record No.</u> | <u>Units</u> | <u>Recording Date</u> |
|-------------------|-------------------|--------------|-----------------------|
| Black 1 | 9601 | 20 | March 23, 1989 |
| Black 2 | 9602 | 20 | March 23, 1989 |
| Black 3 | 9603 | 20 | March 23, 1989 |
| Black 4 | 9604 | 20 | March 23, 1989 |
| Black 5 | 9605 | 16 | March 23, 1989 |

Blackwater Mountain Area,
Cariboo Mining Division, British Columbia
N.T.S. Map Area 93G/2W
Latitude 53° 10'N Longitude 122° 50'

by K.V. Campbell, Ph.D., and
R.A. Hillman, P.Eng.

May 20, 1990

**SUB-RECORDER
RECEIVED**

MAY 30 1990

M.R. # S.
VANCOUVER, B.C.

**GEOLOGICAL BRANCH
ASSESSMENT REPORT**

20,052

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1 INTRODUCTION

1.1 LOCATION, ACCESS AND TERRAIN

The Black property is located in the Cariboo Mining Division near Blackwater Mountain in central British Columbia, 30km northwest of Quesnel. The property is approximately centered at 51° 10' North latitude, 122° 50' West longitude and is situated within National Topographic Series map sheet 93G/2W (Figure 1).

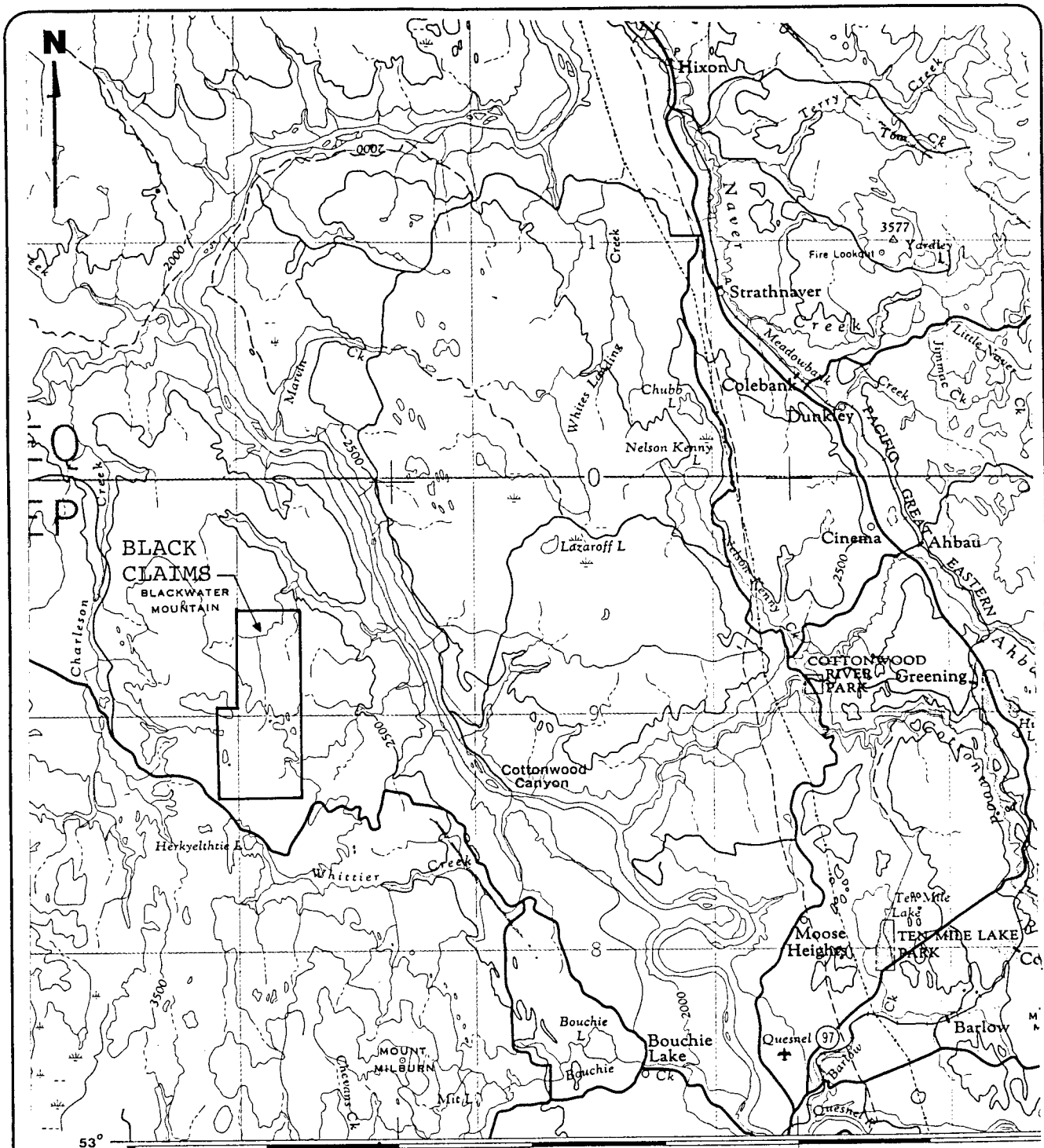
Access to the claims is from Quesnel along the Blackwater Road, an all-weather gravel road in good condition. It is about 26km from Quesnel to the bend in the road nearest the southeast corner of the claims. Recently constructed logging roads extend north off the Blackwater Road across the Black 5 claim.

The claims area has a subdued topography with a relief of no more than 300m (1,000ft). For the most part the creeks are slow moving but Wolf Creek, which runs north through the claims is deeply incised into thick till deposits and bedrock. Rock exposures are scarce but several are found along creeks, on the sides of knolls and on the south-facing slopes of higher hills.

Mapping by Tipper (1970) shows the direction of ice flow was to the north-northwest in this area.

1.2 CLAIM OWNERSHIP AND STATUS

The Black property consists of five modified grid system claims totalling 96 units (Figure 2). Table 1 summarizes the claim particulars. The claims are owned by K.V. Campbell of Vancouver, B.C.



BLACK CLAIMS
 BLACKWATER MOUNTAIN

Scale 1:250,000

BLACK CLAIMS
 Cariboo Mining Div.
 NTS 93G May, 1990
 Location Map

FIGURE 1.

FIGURE 2
 BLACK CLAIMS
 Cariboo Mining Div.
 Claim Plan
 NTS 93G/2W
 May, 1990

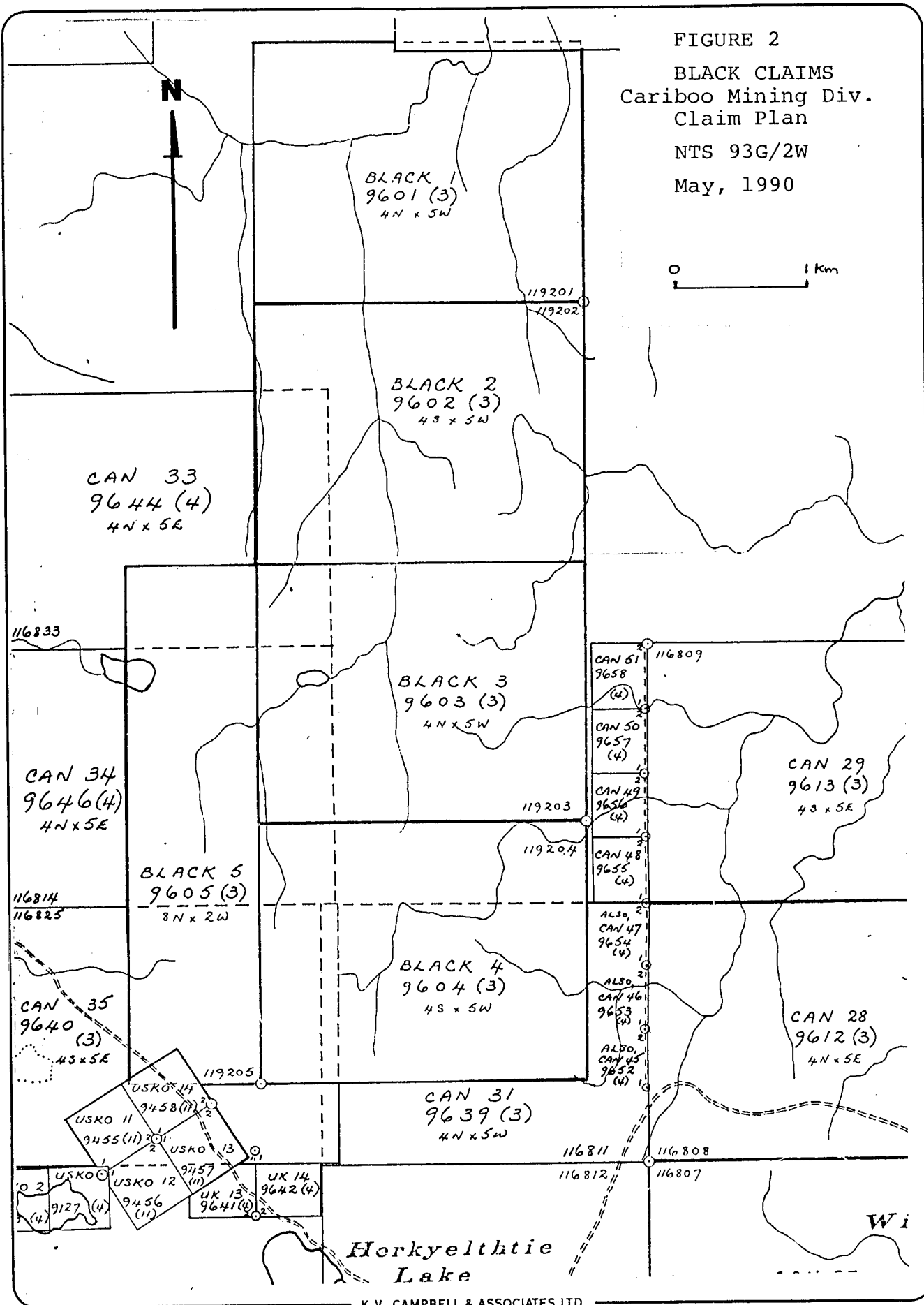


Table 1. Summary of Claim Particulars

| <u>Claim Name</u> | <u>Record No.</u> | <u>Units</u> | <u>Recording Date</u> |
|-------------------|-------------------|--------------|-----------------------|
| Black 1 | 9601 | 20 | March 23, 1989 |
| Black 2 | 9602 | 20 | March 23, 1989 |
| Black 3 | 9603 | 20 | March 23, 1989 |
| Black 4 | 9604 | 20 | March 23, 1989 |
| Black 5 | 9605 | 16 | March 23, 1989 |

1.3 Previous work

No previous work is recorded on the claims.

1.4 1989/90 Work Program

Work was conducted during the periods May 6th to 10th and May 21, 1989 and March 6th to 10th, 1990. The spring 1989 program included silt sampling, prospecting and rock sampling and geological traverses. A total of 26 silt samples and 5 rock samples have been analyzed. In 1990 two grids were established with a total base and tie-line length of 7,450m. The total length of grid lines established was 18km. Twenty-five line kilometers of ground magnetometer survey were performed by Frontier Geosciences Inc. of Vancouver, B.C.

2 GEOLOGY

On a regional scale the property lies within the Cache Creek terrane of the Intermontane Tectonic Belt.

The bedrock geology of the claims area has not been mapped in detail. The most recent mapping by Struik et al (1990) shows the claims area to be underlain by rocks of the Pennsylvanian and/or Permian Cache Creek Group; dark gray ribbon chert,

argillite, greenstone, minor limestone and serpentinite.

3 SILT SAMPLING

3.1 Procedure and Analytical Technique

Conventional silt sampling procedures were followed; a 4x6" Kraft paper bag being filled with active sediment at each station.

Analyses were performed by Eco-Tech Laboratories Ltd. of Kamloops, B.C. Samples were dried, sieved to minus-80 mesh and subjected to a 30 element ICP (inductively coupled argon plasma) analytical technique after digestion for one hour at 95°C in aqua regia. Gold analysis was by hot aqua regia leach on a 10gm sample followed by analysis by atomic absorption.

3.2 Results and Interpretation

The analytical results for the silt samples are included in Appendix I. Sample locations are shown in Figure 3 and values for gold are shown in Figure 4.

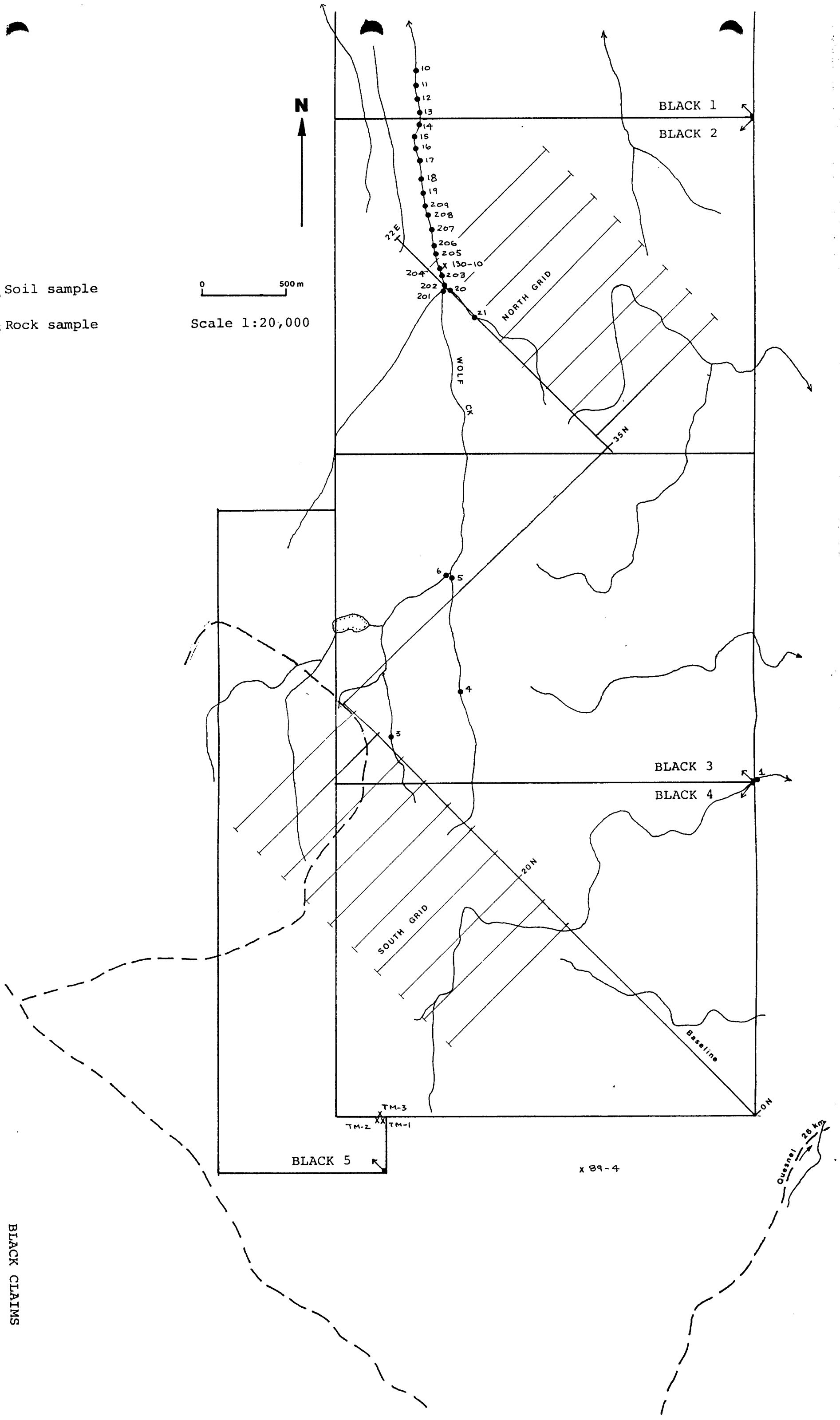
The majority of samples were collected in the relatively higher energy stream environment of Wolf Creek, in the northern half of the Black 2 claim. Gold and other metal values are low. The highest values, 25 and 35ppb Au, were collected near an outcrop of silicified chert (Sample 130-10) that carried 111ppb Au.

Silt samples with anomalous values of other elements are:

Nos. 3 - 3.2ppm Ag, 15ppm Mo, 493ppm Ni
202 - 1.6ppm Ag, 12ppm Mo

● Soil sample
 x Rock sample

0 500m
 Scale 1:20,000

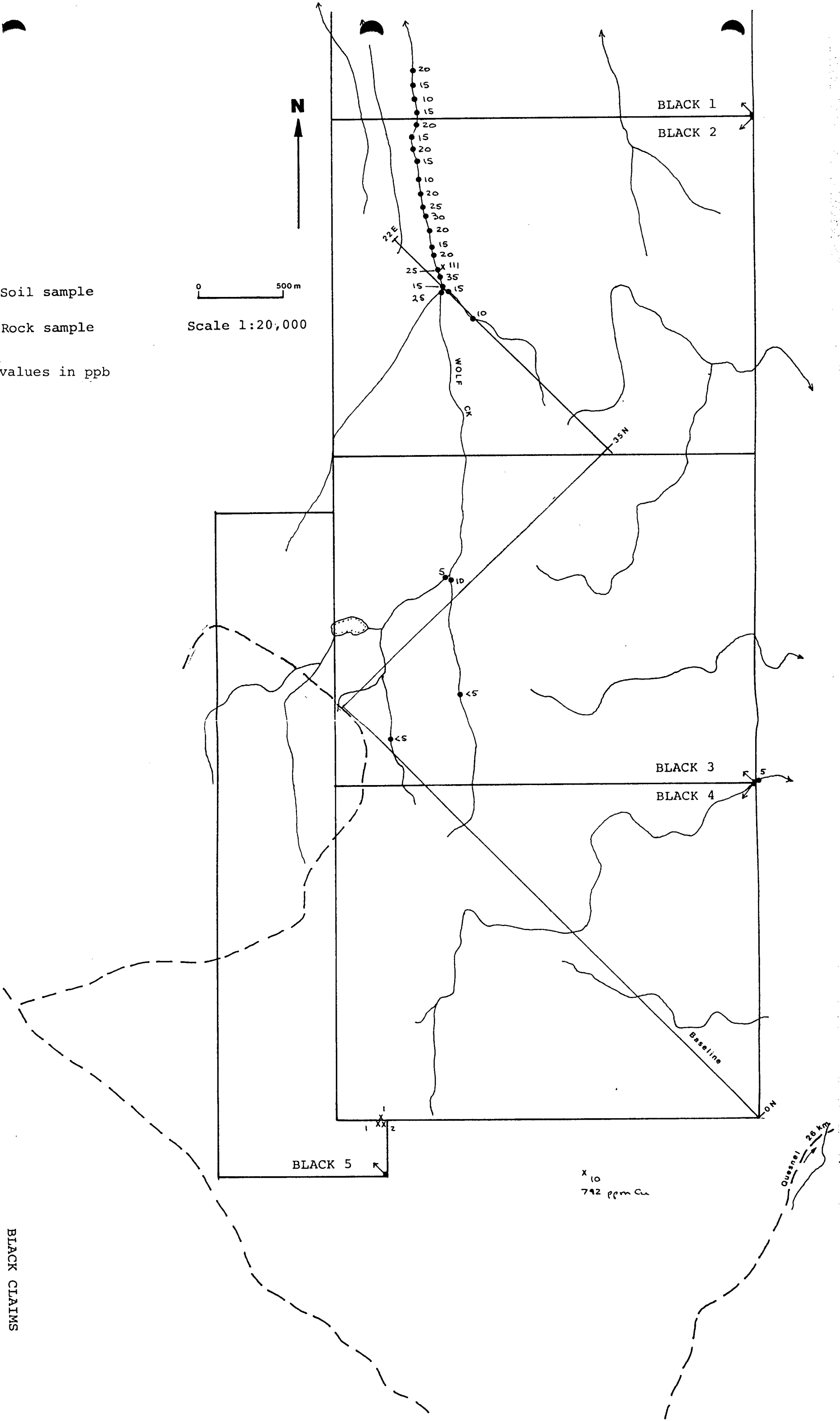


BLACK CLAIMS
 Cariboo Mining Division, B.C.
 93G/2W
 GRID AND SAMPLE LOCATIONS

FIGURE 3

• Soil sample
 x Rock sample
 Au values in ppb

0 500m
 Scale 1:20,000



BLACK CLAIMS
 Cariboo Mining Division, B.C.
 93G/2W
 GEOCHEMICAL RESULTS - Au

FIGURE 4

4 ROCK SAMPLING

4.1 Procedure and Analytical Technique

In the course of the silt sampling, prospecting and geological traverses several rock samples were collected. A few of these were analyzed.

Brief sample descriptions are given in Appendix II. One rock samples was analyzed by Eco-Tech Laboratories Ltd. in Kamloops and four samples were analyzed by Acme Analytical Laboratories Ltd. in Vancouver, B.C. Samples were ground to minus-100 mesh and subjected to the same digestion and analytical techniques as were the silt samples.

4.2 Results and Interpretation

The analytical results for the rock samples are given in Appendix I. Sample locations are shown in Figure 3 and results for gold are shown in Figure 4.

Samples TM-1,2 and 3 were of dark, silicified chert with fine disseminated pyrite. These reported nothing of interest. Sample 89-4 was of green, andesitic volcanoclastic with a few grains of fine chalcopyrite. This assayed 792ppm Cu but carried no other significant values. Sample 130-10, from outcrops of silicified chert along Wolf Creek, carried 111ppb Au.

5 GEOPHYSICS

The magnetometer survey was performed by Frontier Geosciences Inc. of North Vancouver, B.C. between March 10 and March 15,

1990.

5.1 Method

The magnetometer survey utilized two Geometrics G-816 recording proton precession magnetometers. One of these was used as a base station to record diurnal variations during the survey interval. These data, together with the field data obtained by the roving magnetometer, were downloaded to a field computer for processing and plotting.

The synchronization of the field to base station magnetometer was preserved to within one second. Diurnal variation was normal, with no magnetic storms occurring in the survey interval. Precautions of thorough operator demagnetization and preservation of a constant facing direction were observed to maintain data quality.

The survey was conducted on two grids, located in Figure 3. A total of 18 line km of grid were surveyed, in addition to 7.4 line km of base and tie lines.

The data was processed to remove diurnal variation and plotted in stacked profile form on Figure 5. Listings of the data are included in Appendix II.

5.2 Results and Interpretation

The survey grids were located to test two areas of high magnetic activity observed in an airborne magnetic survey. The survey data confirmed the general location and character of the magnetic anomalies observed in the airborne data.

The coverage of the south grid showed the presence of a general increasing gradient to the southwest in agreement

with the airborne survey coverage. This broad magnetic high is interpreted to be associated with a magnetite rich serpentinite body, the centre of which is located somewhat to the southwest of the survey grid. Locally present on the flanks of this magnetic high are shallow, very strong magnetic highs, originating in locally enhanced magnetite concentrations possibly within outliers from the main serpentinite body. The locations of interpreted magnetic source bodies for the principle anomalies are indicated in plan on Figure 5.

The system of magnetic highs observed on the north grid is well correlated with the airborne indicated anomaly. The amplitude of these magnetic highs is not as great as those observed on the south grid, reaching maximums of 1000 nT.

6 CONCLUSIONS

The Black claims are underlain by Cache Creek Group volcanic and metasedimentary rocks; argillites, limestone, cherts and basalts. In addition, a northwest trending belt of serpentinite crosses the south portion of the claims, in the neighbourhood of the south grid.

Limited geochemical silt sampling showed slight increase of gold near outcrops of silicified chert on Wolf Creek.

The geophysical survey showed the presence of two magnetic anomalies; one on the south grid, near outcrops of serpentinite on the logging road immediately west of the Black 5 claim, and the other on the Black 2 claim. The latter anomaly is in the vicinity of two silt samples and one rock sample that carried anomalous gold values.

7 RECOMMENDATIONS

A program of mapping and prospecting of the few rock exposures on the claims, particularly on the Black 2 claim, is recommended. Further magnetometer surveying is recommended on the north grid to give definition of the magnetic anomaly there.

8 BIBLIOGRAPHY

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- Tipper, H.W., 1971; Glacial geomorphology and pleistocene history of central British Columbia, Geological Survey of Canada, Bulletin 196.
- Wheeler, J.O., Brookfield, A.J., Gabrielse, H., Monger, J.W.H., and Woodsworth, G.J., 1988; Terrane Map of the

Canadian Cordillera, Geological Survey of Canada, Open File
1894.

9 ITEMIZED COST STATEMENT

Salaries and Fees:

| | |
|---|-------------|
| K.V. Campbell, geologist; 11 days @ \$150/day ... | \$ 1,650.00 |
| C.I. Ditson, geologist; 10 days @ \$150/day | \$ 1,500.00 |
| T.H. Mackenzie; prospector; 5 days @ \$100/day .. | \$ 500.00 |

Disbursements:

| | |
|--------------------------------------|-----------|
| 4x4 rental; 11 days @ \$55/day | \$ 605.00 |
| 4012 km @ \$0.15/km | \$ 601.80 |
| Air photos | \$ 35.66 |
| Photocopies | \$ 27.86 |
| Meals, groceries | \$ 214.21 |
| Accommodation | \$ |
| 181.44 | |
| Fuel | \$ 220.77 |
| Assays | \$ 469.75 |
| Expendable materials | \$ 50.00 |

Contractor:


| | |
|--------------------------------|-------------|
| Frontier Geosciences Inc. | \$ 9,709.94 |
| Total | \$15,766.43 |

10 CERTIFICATES

I, KENNETH VINCENT CAMPBELL, resident of Vancouver, Province of British Columbia, hereby certify as follows:

- 1) I am a Consulting Geologist with an office at #4 - 84 Lonsdale Ave., North Vancouver, British Columbia.
- 2) I graduated with a degree of Bachelor of Science, Honours Geology, from the University of British Columbia in 1966, a degree of Master of Science, Geology, from the University of Washington in 1969, and a degree of Doctor of Philosophy, Geology, from the University of Washington in 1971.
- 3) I have practised my profession for 23 years. I am a Fellow of the Geological Association of Canada (F0078).
- 4) This report, dated May 20, 1990, is based on my field work on the Black claims between May 6th, 1989 and March 15th, 1990.

Dated at Vancouver, Province of British Columbia,
this 20th day of May, 1990.



K.V. Campbell, Ph.D., F.G.A.C.
Geologist

10 CERTIFICATES
(continued)

I, RUSSELL ALEXANDER HILLMAN, resident of Vancouver, Province of British Columbia, hereby certify as follows:

1) I am a Consulting Geophysicist with an office at #7 - 84 Lonsdale Ave., North Vancouver, British Columbia.

2) I graduated with a degree of Bachelor of Science, Geophysics, from the University of British Columbia in 1969.

3) I have practised my profession for 17 years. I am a Professional Engineer in the Province of British Columbia.

4) I am a member of good standing with the European Society of Exploration Geophysicists.

5) I supervised and interpreted the results of the magnetometer survey of the Black claims described in this report. The field work was performed between March 10 and March 15, 1990.

Dated at Vancouver, Province of British Columbia,
this 20th day of May, 1990.

Russell A. Hillman

Russell A. Hillman, P.Eng.
Geophysicist

APPENDIX I
Analyses Certificate

ECO-TECH LABORATORIES LTD.

PLACER DOME INC. - ETK89-260 A

10041 EAST TRANS CANADA HWY.
 KAMLOOPS, B.C. V2C 2J3
 PHONE - 604-573-5700
 FAX - 604-573-4557

401 - 1450 PEARSON PLACE
 KAMLOOPS, B.C.
 VIS 1J9

K.V. Campbell & Assoc. Ltd.
 #4 - 84 Lonsdale Avenue,
 North Vancouver, B.C.
 V7M 2E6 985-4588

JUNE 5, 1989

VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: GENERAL 1E

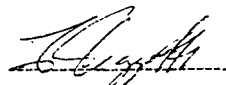
1 ROCK SAMPLE RECEIVED MAY 29, 1989

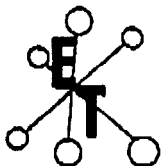
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|--------|--------------|----------|----|---|----|----------|----|----|----|----------|------|----------|-----|----------|-----|---|-----|----|----|----------|-----|-----|----|----|-----|----|-----|
| 260 A- | 1 CV130-89-4 | .4 1.85 | 10 | 4 | 45 | <5 .96 | 1 | 16 | 77 | 792 3.21 | .07 | <10 1.44 | 677 | 5 | .09 | 5 | 560 | 6 | 10 | <20 | 202 | .20 | 10 | 38 | <10 | 20 | 165 |

NOTE: < = LESS THAN

CC: ROB PEASE
 FAX: PLACER, KAMLOOPS

SC89/PLACER1


 ECO-TECH LABORATORIES LTD.
 FRANK J. PEZZOTTI
 B.C. CERTIFIED ASSAYER



ECO-TECH LABORATORIES LTD.

ASSAYING • ENVIRONMENTAL TESTING

10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (804) 573-5700 Fax 573-4557

*K.V. Campbell
#8 - 84 Lonsdale Ave
NORTH VANCOUVER, B.C.
V7M 2E6*

MAY 31, 1989

CERTIFICATE OF ANALYSIS ETK 89-260

=====

Placer Dome Inc.
401, 1450 Pearson Place
KAMLOOPS, B.C.
V1S 1J9

K.V. Campbell & Assoc. Ltd.
#4 - 84 Lonsdale Avenue,
North Vancouver, B.C.
V7M 2E6 985-4588

| | | | |
|-----------------|--------------|----------|-------|
| DATE RECEIVED: | MAY 29, 1989 | REJECTS: | STORE |
| PROJECT: | GENERAL - 1E | PULPS: | STORE |
| NUMBER SAMPLES: | 1 | | |
| TYPE SAMPLES: | ROCK | | |

| ET# | Description | AU (ppb) |
|-------|--------------|-------------|
| 260 - | 1 CV130-89-4 | 10 |

[Signature]

 ECO-TECH LABORATORIES LTD.
 Frank J. Pezzotti, A.Sc.T.
 B.C. Certified Assayer

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PLACER DOME INC. - ETK89-259 A

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#4 - 84 Lonsdale Avenue,
North Vancouver, B.C.
V7M 2E6 985-4588

JUNE 5, 1989


VALUES IN PPM UNLESS OTHERWISE REPORTED

PROJECT: GENERAL 1E
26 SOIL SAMPLES RECEIVED MAY 29, 1989

| ETK# | DESCRIPTIONS | AG | AL(Z) | AS | B | BA | BI | CA(Z) | CD | CO | CR | CU | FE(Z) | K(Z) | LA | MG(Z) | MN | MO | NA(Z) | NI | P | PB | SB | SN | SR | TI(Z) | U | V | W | Y | ZN |
|--------|--------------|-----|-------|----|----|-----|----|-------|----|----|-----|----|-------|------|-----|-------|---------|----|-------|-----|------|----|----|-----|----|-------|-----|----|-----|----|-----|
| 259 A- | 1 S130 1 | .8 | 1.96 | 15 | <2 | 155 | <5 | .71 | 2 | 26 | 109 | 83 | 3.43 | .10 | 10 | .91 | 1598 | 4 | .04 | 182 | 890 | 12 | 10 | <20 | 47 | .05 | 10 | 58 | <10 | 20 | 173 |
| 259 A- | 2 S130 3 | 3.2 | 1.60 | 15 | <2 | 550 | <5 | .99 | 3 | 25 | 120 | 71 | 3.59 | .11 | 10 | 1.00 | >10,000 | 15 | .04 | 493 | 1200 | 8 | 10 | <20 | 69 | .07 | 50 | 64 | <10 | 15 | 99 |
| 259 A- | 3 S130 4 | .6 | 1.80 | 10 | <2 | 120 | <5 | .50 | 1 | 21 | 65 | 42 | 3.90 | .09 | 10 | .81 | 1246 | 5 | .04 | 72 | 1240 | 10 | 5 | <20 | 33 | .04 | 10 | 64 | <10 | 8 | 79 |
| 259 A- | 4 S130 5 | .8 | 2.19 | 10 | <2 | 200 | <5 | .89 | 2 | 25 | 98 | 52 | 4.74 | .08 | 10 | .95 | 2430 | 2 | .04 | 143 | 2100 | 10 | 20 | <20 | 62 | .03 | 10 | 56 | <10 | 19 | 153 |
| 259 A- | 5 S130 6 | 1.4 | 2.09 | 10 | <2 | 260 | <5 | 1.20 | 2 | 53 | 127 | 72 | 4.30 | .08 | 10 | 1.21 | 6520 | 6 | .04 | 251 | 2020 | 10 | 5 | <20 | 90 | .03 | 20 | 75 | <10 | 23 | 164 |
| 259 A- | 6 S130 10 | .8 | 1.53 | 15 | <2 | 165 | <5 | .70 | 4 | 31 | 74 | 67 | 3.57 | .08 | 10 | .64 | 1874 | 6 | .04 | 126 | 1140 | 6 | 10 | <20 | 61 | .06 | 20 | 67 | <10 | 16 | 220 |
| 259 A- | 7 S130 11 | .6 | 1.63 | 15 | <2 | 145 | <5 | .65 | 3 | 24 | 67 | 66 | 3.55 | .07 | 10 | .68 | 1338 | 6 | .04 | 105 | 1050 | 8 | 5 | <20 | 55 | .05 | 10 | 73 | <10 | 16 | 223 |
| 259 A- | 8 S130 12 | .2 | 1.35 | 10 | <2 | 125 | <5 | .55 | 3 | 23 | 62 | 67 | 3.53 | .07 | 10 | .59 | 1060 | 6 | .04 | 81 | 980 | 10 | 5 | <20 | 50 | .06 | 10 | 79 | <10 | 12 | 177 |
| 259 A- | 9 S130 13 | .4 | 1.01 | 5 | <2 | 100 | <5 | .33 | 3 | 28 | 40 | 39 | 3.03 | .06 | 10 | .43 | 1397 | 8 | .04 | 74 | 760 | 4 | 5 | <20 | 37 | .03 | 10 | 49 | <10 | 8 | 170 |
| 259 A- | 10 S130 14 | .8 | 1.68 | 10 | <2 | 145 | <5 | .66 | 4 | 23 | 74 | 65 | 3.64 | .08 | 10 | .65 | 1285 | 6 | .04 | 103 | 1100 | 8 | 5 | <20 | 62 | .05 | 10 | 68 | <10 | 17 | 219 |
| 259 A- | 11 S130 15 | .2 | .92 | 10 | <2 | 85 | <5 | .31 | 2 | 26 | 37 | 45 | 2.91 | .06 | 10 | .43 | 1198 | 5 | .04 | 72 | 770 | 8 | 5 | <20 | 33 | .03 | 10 | 45 | <10 | 9 | 187 |
| 259 A- | 12 S130 16 | .4 | 1.19 | 5 | <2 | 115 | <5 | .41 | 3 | 29 | 42 | 47 | 3.49 | .06 | 10 | .46 | 1575 | 8 | .04 | 92 | 860 | 6 | 5 | <20 | 46 | .04 | <10 | 53 | <10 | 10 | 206 |
| 259 A- | 13 S130 17 | .8 | 1.64 | 10 | <2 | 140 | <5 | .72 | 3 | 25 | 70 | 61 | 3.60 | .08 | 10 | .69 | 1444 | 6 | .04 | 112 | 1050 | 8 | 10 | <20 | 61 | .05 | 10 | 65 | <10 | 16 | 221 |
| 259 A- | 14 S130 18 | .4 | 1.07 | 5 | <2 | 100 | <5 | .31 | 2 | 24 | 35 | 39 | 3.07 | .06 | 10 | .42 | 1271 | 7 | .04 | 77 | 720 | 8 | 5 | <20 | 33 | .04 | 20 | 50 | <10 | 9 | 190 |
| 259 A- | 15 S130 19 | .6 | 1.77 | 10 | <2 | 155 | <5 | .71 | 4 | 25 | 70 | 68 | 3.66 | .08 | 10 | .68 | 1006 | 3 | .04 | 111 | 1120 | 10 | 10 | <20 | 64 | .06 | <10 | 63 | <10 | 17 | 222 |
| 259 A- | 16 S130 20 | .6 | 1.00 | 5 | <2 | 110 | <5 | .34 | 2 | 7 | 24 | 25 | 1.34 | .05 | 10 | .36 | 299 | 3 | .04 | 33 | 450 | 4 | 5 | <20 | 29 | .02 | 20 | 25 | <10 | 7 | 56 |
| 259 A- | 17 S130 21 | 1.4 | .89 | 5 | <2 | 135 | <5 | .79 | 4 | 5 | 23 | 74 | .72 | .04 | <10 | .22 | 90 | 2 | .03 | 75 | 970 | 6 | 5 | <20 | 53 | <.01 | <10 | 12 | <10 | 16 | 62 |
| 259 A- | 18 S130 201 | 1.0 | 2.11 | 15 | <2 | 170 | <5 | .72 | 5 | 35 | 87 | 98 | 4.41 | .09 | 20 | .71 | 2149 | 6 | .04 | 148 | 1270 | 10 | 15 | <20 | 67 | .03 | 10 | 70 | <10 | 23 | 309 |
| 259 A- | 19 S130 202 | 1.6 | 1.84 | 15 | <2 | 200 | <5 | .74 | 5 | 44 | 55 | 63 | 4.15 | .07 | 10 | .52 | 2066 | 12 | .04 | 79 | 1540 | 14 | 5 | <20 | 59 | .02 | <10 | 69 | <10 | 15 | 128 |
| 259 A- | 20 S130 203 | 1.0 | 2.07 | 15 | <2 | 170 | <5 | .69 | 4 | 34 | 85 | 82 | 4.07 | .09 | 10 | .72 | 1715 | 9 | .04 | 137 | 1250 | 10 | 15 | <20 | 64 | .03 | 10 | 67 | <10 | 20 | 278 |
| 259 A- | 21 S130 204 | 1.2 | 1.71 | 10 | 2 | 150 | <5 | .69 | 5 | 33 | 76 | 72 | 3.99 | .08 | 10 | .73 | 1825 | 8 | .04 | 135 | 1080 | 16 | 10 | <20 | 58 | .04 | 10 | 66 | <10 | 18 | 330 |
| 259 A- | 22 S130 205 | 1.0 | 1.68 | 10 | 2 | 135 | <5 | .67 | 3 | 26 | 64 | 64 | 3.27 | .08 | 10 | .72 | 1023 | 7 | .03 | 111 | 990 | 10 | 10 | <20 | 64 | .04 | 10 | 55 | <10 | 16 | 268 |
| 259 A- | 23 S130 206 | 1.0 | 1.58 | 10 | <2 | 135 | <5 | .63 | 4 | 28 | 66 | 60 | 3.54 | .08 | 10 | .69 | 1424 | 5 | .04 | 107 | 960 | 10 | 10 | <20 | 53 | .04 | <10 | 62 | <10 | 15 | 261 |
| 259 A- | 24 S130 207 | 1.2 | 1.72 | 15 | 2 | 170 | <5 | .76 | 5 | 28 | 69 | 66 | 3.68 | .08 | 10 | .70 | 1985 | 6 | .04 | 121 | 1100 | 10 | 15 | <20 | 69 | .04 | 10 | 62 | <10 | 17 | 292 |
| 259 A- | 25 S130 208 | 1.0 | 1.71 | 10 | 2 | 150 | <5 | .75 | 6 | 27 | 67 | 63 | 3.41 | .09 | 10 | .70 | 1687 | 5 | .04 | 119 | 1150 | 8 | 10 | <20 | 66 | .05 | 10 | 63 | <10 | 17 | 304 |
| 259 A- | 26 S130 209 | .8 | 1.61 | 10 | <2 | 140 | <5 | .64 | 4 | 28 | 66 | 54 | 3.34 | .08 | 10 | .64 | 1559 | 4 | .04 | 105 | 990 | 8 | 10 | <20 | 56 | .06 | 10 | 61 | <10 | 15 | 242 |

NOTE: < = LESS THAN

CC: ROB
FA, KAMLOOPS


ECO-TECH LABORATORIES LTD.
FRANK J. PEZZOTTI
B.C. CERTIFIED ASSAYER

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 2000 | -250 | 15 | 13 | 39 | 243 | 572928 | -124 | 572804 |
| 2000 | -200 | 15 | 15 | 51 | 244 | 572335 | -126 | 572209 |
| 2000 | -150 | 15 | 18 | 16 | 245 | 572967 | -126 | 572841 |
| 2000 | -100 | 15 | 20 | 12 | 246 | 573301 | -129 | 573172 |
| 2000 | -50 | 15 | 22 | 4 | 247 | 573489 | -129 | 573360 |
| 2000 | 0 | 15 | 24 | 1 | 248 | 573794 | -133 | 573661 |

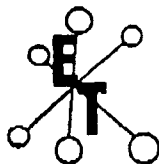
Line 1800N

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|------|-------|----|----|----|-----|--------|-----|--------|
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| 1800 | -50 | 10 | 50 | 35 | 383 | 573455 | -68 | 573387 |
| 1800 | -100 | 10 | 52 | 22 | 384 | 573013 | -65 | 572948 |
| 1800 | -150 | 10 | 53 | 53 | 385 | 572928 | -64 | 572864 |
| 1800 | -200 | 10 | 56 | 1 | 386 | 571688 | -63 | 571625 |
| 1800 | -250 | 10 | 57 | 51 | 387 | 572441 | -65 | 572376 |
| 1800 | -300 | 10 | 59 | 39 | 388 | 571925 | -63 | 571862 |
| 1800 | -350 | 11 | 1 | 44 | 389 | 571952 | -61 | 571891 |
| 1800 | -400 | 11 | 4 | 11 | 390 | 571748 | -63 | 571685 |
| 1800 | -450 | 11 | 6 | 57 | 391 | 571223 | -62 | 571161 |
| 1800 | -500 | 11 | 9 | 6 | 392 | 570309 | -63 | 570246 |
| 1800 | -550 | 11 | 11 | 23 | 393 | 569986 | -60 | 569926 |
| 1800 | -600 | 11 | 13 | 52 | 394 | 569493 | -59 | 569434 |
| 1800 | -650 | 11 | 16 | 6 | 395 | 568031 | -59 | 567972 |
| 1800 | -700 | 11 | 18 | 52 | 396 | 564306 | -59 | 564247 |
| 1800 | -750 | 11 | 21 | 51 | 397 | 580840 | -58 | 580782 |
| 1800 | -800 | 11 | 24 | 12 | 398 | 607044 | -57 | 606987 |
| 1800 | -850 | 11 | 26 | 5 | 399 | 589309 | -55 | 589254 |
| 1800 | -900 | 11 | 29 | 0 | 400 | 582339 | -56 | 582283 |
| 1800 | -950 | 11 | 31 | 3 | 401 | 578376 | -57 | 578319 |
| 1800 | -1000 | 11 | 32 | 59 | 402 | 576693 | -55 | 576638 |

Line 1600N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|-----|--------|
| 1600 | -1000 | 11 | 45 | 5 | 403 | 580438 | -52 | 580386 |
| 1600 | -950 | 11 | 47 | 12 | 404 | 581013 | -53 | 580960 |
| 1600 | -900 | 11 | 50 | 15 | 405 | 581767 | -52 | 581715 |
| 1600 | -850 | 11 | 51 | 59 | 406 | 580738 | -51 | 580687 |
| 1600 | -800 | 11 | 54 | 10 | 407 | 575555 | -51 | 575504 |
| 1600 | -750 | 11 | 55 | 59 | 408 | 569891 | -48 | 569843 |
| 1600 | -700 | 11 | 58 | 29 | 409 | 569338 | -46 | 569292 |
| 1600 | -650 | 12 | 0 | 41 | 410 | 570020 | -46 | 569974 |
| 1600 | -600 | 12 | 2 | 23 | 411 | 570165 | -44 | 570121 |
| 1600 | -550 | 12 | 4 | 59 | 412 | 570852 | -43 | 570809 |
| 1600 | -500 | 12 | 6 | 39 | 413 | 571101 | -44 | 571057 |
| 1600 | -450 | 12 | 8 | 36 | 414 | 571430 | -44 | 571386 |
| 1600 | -400 | 12 | 10 | 4 | 415 | 571833 | -41 | 571792 |
| 1600 | -350 | 12 | 12 | 12 | 416 | 572605 | -40 | 572565 |
| 1600 | -300 | 12 | 13 | 40 | 417 | 572785 | -40 | 572745 |
| 1600 | -250 | 12 | 15 | 49 | 418 | 573006 | -41 | 572965 |
| 1600 | -200 | 12 | 17 | 19 | 419 | 573537 | -41 | 573496 |
| 1600 | -150 | 12 | 19 | 58 | 420 | 574114 | -36 | 574078 |
| 1600 | -100 | 12 | 21 | 39 | 421 | 572869 | -35 | 572834 |
| 1600 | -50 | 12 | 23 | 47 | 422 | 573679 | -33 | 573646 |
| 1600 | 0 | 12 | 25 | 53 | 423 | 573630 | -32 | 573598 |

BB
RP



ECO-TECH LABORATORIES LTD.

ASSAYING - ENVIRONMENTAL TESTING
10041 East Trans Canada Hwy., Kamloops, B.C. V2C 2J3 (604) 573-5700 Fax 573-4557

MAY 31, 1989

CERTIFICATE OF ANALYSIS ETK 89-259

Placer Dome Inc.
401, 1450 Pearson Place
KAMLOOPS, B.C.
V1S 1J9

K.V. Campbell & Assoc. Ltd.
#4 - 84 Lonsdale Avenue,
North Vancouver, B.C.
V7M 2F6 985-4588

=====

| | | | |
|-----------------|-----------------|----------|---------------|
| DATE RECEIVED: | MAY 29, 1989 | REJECTS: | N/A |
| PROJECT: | GENERAL 1E | PULPS: | SIURK |
| NUMBER SAMPLES: | 26 | | |
| TYPE SAMPLES: | STREAM SEDIMENT | NOTE: | < = LESS THAN |

=====

| ET# | Description | AU (ppb) |
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| 259 - 1 | S130 1 | 5 |
| 259 - 2 | S130 3 | <5 |
| 259 - 3 | S130 4 | <5 |
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| 259 - 8 | S130 12 | 10 |
| 259 - 9 | S130 13 | 15 |
| 259 - 10 | S130 14 | 20 |
| 259 - 11 | S130 15 | 15 |
| 259 - 12 | S130 16 | 20 |
| 259 - 13 | S130 17 | 15 |
| 259 - 14 | S130 18 | 10 |
| 259 - 15 | S130 19 | 20 |
| 259 - 16 | S130 20 | 15 |
| 259 - 17 | S130 21 | 10 |
| 259 - 18 | S130 201 | 25 |
| 259 - 19 | S130 202 | 15 |
| 259 - 20 | S130 203 | 35 |
| 259 - 21 | S130 204 | 25 |
| 259 - 22 | S130 205 | 20 |
| 259 - 23 | S130 206 | 15 |
| 259 - 24 | S130 207 | 20 |
| 259 - 25 | S130 208 | 30 |
| 259 - 26 | S130 209 | 25 |

Frank J. Pezzotti

ECO-TECH LABORATORIES LTD.
Frank J. Pezzotti, A.Sc.T.
B.C. Certified Assayer

F A X
SC89/PLACER1

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: JUL 7 1989

DATE REPORT MAILED: *July 12/89*

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY...*C. Leong* D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

K.V. CAMPBELL & ASSOC. LTD. FILE # 89-2010

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | As PPM | Au* PPB |
|--------------|-----------|-----------|-----------|-----------|-----------|------------|
| 88-130-TM-01 | 22 | 7 | 14 | .1 | 2 | 2 |
| 88-130-TM-02 | 54 | 6 | 60 | .1 | 2 | 1 |
| 88-130-TM-03 | 51 | 4 | 53 | .1 | 2 | 1 |

ACME ANALYTICAL LABORATORIES LTD.
852 E. HASTINGS ST. VANCOUVER B.C. V6A 1R6
PHONE(604)253-3158 FAX(604)253-1716

DATE RECEIVED: JUN 23 1989
DATE REPORT MAILED: *June 30/89.*

GEOCHEMICAL ANALYSIS CERTIFICATE

ICP - .500 GRAM SAMPLE IS DIGESTED WITH 3ML 3-1-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR AND IS DILUTED TO 10 ML WITH WATER. THIS LEACH IS PARTIAL FOR MN FE SR CA P LA CR MG BA TI B W AND LIMITED FOR NA K AND AL. AU DETECTION LIMIT BY ICP IS 3 PPM.
- SAMPLE TYPE: ROCK AU* ANALYSIS BY ACID LEACH/AA FROM 10 GM SAMPLE.

SIGNED BY...*C. Leong*... D.TOYE, C.LEONG, J.WANG; CERTIFIED B.C. ASSAYERS

K.V. CAMPBELL & ASSOC. LTD. PROJECT 89-130 FILE # 89-1678

| SAMPLE# | Cu PPM | Pb PPM | Zn PPM | Ag PPM | Ba PPM | AU* PPB |
|-----------|-----------|-----------|-----------|-----------|-----------|------------|
| CV-130-10 | 126 | 3 | 140 | .3 | 66 | 111 |

APPENDIX II
Total Field Magnetics Data Listing

Line 5000N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 5000 | 3200 | 14 | 59 | 16 | 312 | 577921 | -519 | 577402 |
| 5000 | 3150 | 15 | 1 | 8 | 313 | 577608 | -556 | 577052 |
| 5000 | 3100 | 15 | 2 | 50 | 314 | 580092 | -570 | 579522 |
| 5000 | 3050 | 15 | 5 | 1 | 315 | 579982 | -590 | 579392 |
| 5000 | 3000 | 15 | 6 | 21 | 316 | 578157 | -611 | 577546 |
| 5000 | 2950 | 15 | 7 | 59 | 317 | 580817 | -614 | 580203 |
| 5000 | 2900 | 15 | 9 | 40 | 318 | 584594 | -621 | 583973 |
| 5000 | 2850 | 15 | 11 | 27 | 319 | 584052 | -639 | 583413 |
| 5000 | 2800 | 15 | 12 | 56 | 320 | 585378 | -639 | 584739 |
| 5000 | 2750 | 15 | 16 | 33 | 321 | 584470 | -637 | 583833 |
| 5000 | 2700 | 15 | 18 | 39 | 322 | 585189 | -609 | 584580 |
| 5000 | 2650 | 15 | 20 | 38 | 323 | 585069 | -601 | 584468 |
| 5000 | 2600 | 15 | 22 | 10 | 324 | 583351 | -577 | 582774 |
| 5000 | 2550 | 15 | 23 | 59 | 325 | 581956 | -569 | 581387 |
| 5000 | 2500 | 15 | 25 | 27 | 326 | 582172 | -548 | 581624 |
| 5000 | 2450 | 15 | 31 | 18 | 327 | 579485 | -538 | 578947 |
| 5000 | 2400 | 15 | 34 | 48 | 328 | 577351 | -534 | 576817 |
| 5000 | 2350 | 15 | 39 | 39 | 329 | 578152 | -520 | 577632 |
| 5000 | 2300 | 15 | 41 | 10 | 330 | 577589 | -522 | 577067 |
| 5000 | 2250 | 15 | 43 | 19 | 331 | 577051 | -494 | 576557 |
| 5000 | 2200 | 15 | 48 | 1 | 332 | 576704 | -450 | 576254 |

Line 4800N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 4800 | 2200 | 14 | 0 | 27 | 291 | 576399 | -686 | 575713 |
| 4800 | 2250 | 14 | 5 | 56 | 292 | 577041 | -769 | 576272 |
| 4800 | 2300 | 14 | 8 | 42 | 293 | 577198 | -784 | 576414 |
| 4800 | 2350 | 14 | 12 | 0 | 294 | 577544 | -781 | 576763 |
| 4800 | 2400 | 14 | 15 | 29 | 295 | 578252 | -711 | 577541 |
| 4800 | 2450 | 14 | 18 | 59 | 296 | 579489 | -639 | 578850 |
| 4800 | 2500 | 14 | 22 | 20 | 297 | 580827 | -548 | 580279 |
| 4800 | 2550 | 14 | 25 | 8 | 298 | 581948 | -519 | 581429 |
| 4800 | 2600 | 14 | 27 | 10 | 299 | 583443 | -526 | 582917 |
| 4800 | 2650 | 14 | 29 | 56 | 300 | 585289 | -481 | 584808 |
| 4800 | 2700 | 14 | 31 | 36 | 301 | 586396 | -443 | 585953 |
| 4800 | 2750 | 14 | 33 | 40 | 302 | 586866 | -424 | 586442 |
| 4800 | 2800 | 14 | 36 | 28 | 303 | 585926 | -402 | 585524 |
| 4800 | 2850 | 14 | 38 | 12 | 304 | 583961 | -433 | 583528 |
| 4800 | 2900 | 14 | 39 | 50 | 305 | 583609 | -442 | 583167 |
| 4800 | 2950 | 14 | 41 | 49 | 306 | 582655 | -457 | 582198 |
| 4800 | 3000 | 14 | 43 | 11 | 307 | 580582 | -468 | 580114 |
| 4800 | 3050 | 14 | 45 | 5 | 308 | 580868 | -474 | 580394 |
| 4800 | 3100 | 14 | 47 | 17 | 309 | 577492 | -483 | 577009 |
| 4800 | 3150 | 14 | 49 | 0 | 310 | 576819 | -483 | 576336 |
| 4800 | 3200 | 14 | 50 | 31 | 311 | 576779 | -481 | 576298 |

Line 4600N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 4600 | 3200 | 12 | 14 | 39 | 270 | 577853 | -168 | 577685 |
| 4600 | 3150 | 12 | 18 | 23 | 271 | 577454 | -126 | 577328 |
| 4600 | 3100 | 12 | 20 | 48 | 272 | 577338 | -164 | 577174 |
| 4600 | 3050 | 12 | 23 | 44 | 273 | 578160 | -198 | 577962 |

Appendix II, Total Field Magnetics Data Listing
 North East HH MM SS rec Raw cor Final

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 4600 | 3000 | 12 | 39 | 32 | 274 | 583030 | -208 | 582822 |
| 4600 | 2950 | 12 | 42 | 58 | 275 | 584346 | -217 | 584129 |
| 4600 | 2900 | 12 | 45 | 15 | 276 | 583976 | -253 | 583723 |
| 4600 | 2850 | 12 | 47 | 46 | 277 | 583125 | -313 | 582812 |
| 4600 | 2800 | 12 | 51 | 21 | 278 | 585058 | -387 | 584671 |
| 4600 | 2750 | 12 | 54 | 13 | 279 | 587066 | -389 | 586677 |
| 4600 | 2700 | 12 | 57 | 3 | 280 | 586749 | -423 | 586326 |
| 4600 | 2650 | 13 | 0 | 11 | 281 | 584225 | -478 | 583747 |
| 4600 | 2600 | 13 | 1 | 51 | 282 | 581408 | -494 | 580914 |
| 4600 | 2550 | 13 | 4 | 29 | 283 | 579984 | -510 | 579474 |
| 4600 | 2500 | 13 | 6 | 53 | 284 | 579053 | -523 | 578530 |
| 4600 | 2450 | 13 | 10 | 22 | 285 | 578522 | -547 | 577975 |
| 4600 | 2400 | 13 | 13 | 14 | 286 | 578314 | -530 | 577784 |
| 4600 | 2350 | 13 | 15 | 46 | 287 | 577814 | -567 | 577247 |
| 4600 | 2300 | 13 | 18 | 34 | 288 | 577676 | -554 | 577122 |
| 4600 | 2250 | 13 | 21 | 50 | 289 | 577297 | -547 | 576750 |
| 4600 | 2200 | 13 | 25 | 17 | 290 | 577261 | -505 | 576756 |

Line 4400N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 4400 | 2200 | 11 | 8 | 52 | 249 | 576606 | -36 | 576570 |
| 4400 | 2250 | 11 | 11 | 10 | 250 | 576689 | -44 | 576645 |
| 4400 | 2300 | 11 | 12 | 44 | 251 | 577027 | -24 | 577003 |
| 4400 | 2350 | 11 | 14 | 35 | 252 | 576934 | -24 | 576910 |
| 4400 | 2400 | 11 | 16 | 20 | 253 | 577225 | -16 | 577209 |
| 4400 | 2450 | 11 | 18 | 50 | 254 | 577803 | -19 | 577784 |
| 4400 | 2500 | 11 | 21 | 59 | 255 | 578052 | -39 | 578013 |
| 4400 | 2550 | 11 | 26 | 11 | 256 | 578056 | -105 | 577951 |
| 4400 | 2600 | 11 | 29 | 58 | 257 | 579151 | -96 | 579055 |
| 4400 | 2650 | 11 | 33 | 18 | 258 | 579444 | -105 | 579339 |
| 4400 | 2700 | 11 | 37 | 34 | 259 | 581502 | -111 | 581391 |
| 4400 | 2750 | 11 | 40 | 45 | 260 | 582574 | -102 | 582472 |
| 4400 | 2800 | 11 | 43 | 22 | 261 | 582874 | -157 | 582717 |
| 4400 | 2850 | 11 | 45 | 47 | 262 | 584947 | -124 | 584823 |
| 4400 | 2900 | 11 | 47 | 11 | 263 | 592144 | -165 | 591979 |
| 4400 | 2950 | 11 | 49 | 22 | 264 | 575368 | -142 | 575226 |
| 4400 | 3000 | 11 | 52 | 1 | 265 | 576620 | -111 | 576509 |
| 4400 | 3050 | 11 | 55 | 47 | 266 | 577971 | -142 | 577829 |
| 4400 | 3100 | 11 | 57 | 47 | 267 | 578274 | -158 | 578116 |
| 4400 | 3150 | 11 | 59 | 49 | 268 | 578692 | -169 | 578523 |
| 4400 | 3200 | 12 | 1 | 46 | 269 | 579200 | -178 | 579022 |

Line 4200N

| | | | | | | | | |
|------|------|----|----|----|----|--------|-------|--------|
| 4200 | 3075 | 15 | 52 | 13 | 60 | 579816 | -1943 | 577873 |
| 4200 | 3025 | 15 | 54 | 22 | 61 | 579100 | -1869 | 577231 |
| 4200 | 2975 | 15 | 57 | 10 | 62 | 579724 | -1633 | 578091 |
| 4200 | 2925 | 16 | 4 | 30 | 63 | 579195 | -1256 | 577939 |
| 4200 | 2875 | 16 | 6 | 43 | 64 | 579481 | -1095 | 578386 |
| 4200 | 2825 | 16 | 8 | 55 | 65 | 579479 | -919 | 578560 |
| 4200 | 2775 | 16 | 12 | 23 | 66 | 579679 | -1100 | 578579 |
| 4200 | 2725 | 16 | 14 | 48 | 67 | 579094 | -981 | 578113 |
| 4200 | 2675 | 16 | 17 | 11 | 68 | 578461 | -1004 | 577457 |
| 4200 | 2625 | 16 | 20 | 49 | 69 | 578462 | -705 | 577757 |

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 4200 | 2575 | 16 | 24 | 47 | 70 | 579200 | -587 | 578613 |
| 4200 | 2525 | 16 | 27 | 44 | 71 | 578040 | -621 | 577419 |
| 4200 | 2475 | 16 | 30 | 29 | 72 | 578021 | -524 | 577497 |
| 4200 | 2425 | 16 | 33 | 15 | 73 | 577480 | -499 | 576981 |
| 4200 | 2375 | 16 | 35 | 11 | 74 | 577369 | -498 | 576871 |
| 4200 | 2325 | 16 | 37 | 22 | 75 | 577237 | -482 | 576755 |
| 4200 | 2275 | 16 | 39 | 50 | 76 | 577043 | -460 | 576583 |
| 4200 | 2225 | 16 | 41 | 18 | 77 | 576830 | -441 | 576389 |
| 4200 | 2200 | 16 | 22 | 43 | 333 | 576821 | -462 | 576359 |

Line 4000N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|-------|--------|
| 4000 | 2200 | 16 | 26 | 56 | 334 | 577228 | -519 | 576709 |
| 4000 | 2250 | 14 | 56 | 17 | 40 | 578221 | -2021 | 576200 |
| 4000 | 2300 | 14 | 59 | 38 | 41 | 578900 | -2190 | 576710 |
| 4000 | 2350 | 15 | 2 | 8 | 42 | 579084 | -2170 | 576914 |
| 4000 | 2400 | 15 | 4 | 52 | 43 | 579193 | -2384 | 576809 |
| 4000 | 2450 | 15 | 7 | 11 | 44 | 579133 | -2287 | 576846 |
| 4000 | 2500 | 15 | 9 | 5 | 45 | 579474 | -2373 | 577101 |
| 4000 | 2550 | 15 | 11 | 46 | 46 | 579223 | -2134 | 577089 |
| 4000 | 2600 | 15 | 13 | 39 | 47 | 579330 | -2084 | 577246 |
| 4000 | 2650 | 15 | 15 | 47 | 48 | 579483 | -2014 | 577469 |
| 4000 | 2700 | 15 | 18 | 10 | 49 | 579802 | -1738 | 578064 |
| 4000 | 2750 | 15 | 20 | 35 | 50 | 579735 | -1820 | 577915 |
| 4000 | 2800 | 15 | 22 | 12 | 51 | 579905 | -1702 | 578203 |
| 4000 | 2850 | 15 | 24 | 29 | 52 | 579582 | -1907 | 577675 |
| 4000 | 2900 | 15 | 27 | 27 | 53 | 579535 | -1827 | 577708 |
| 4000 | 2950 | 15 | 29 | 23 | 54 | 579329 | -1693 | 577636 |
| 4000 | 3000 | 15 | 31 | 38 | 55 | 579781 | -1620 | 578161 |
| 4000 | 3050 | 15 | 34 | 35 | 56 | 579508 | -1783 | 577725 |
| 4000 | 3100 | 15 | 36 | 27 | 57 | 578949 | -1871 | 577078 |
| 4000 | 3150 | 15 | 38 | 44 | 58 | 578677 | -1898 | 576779 |
| 4000 | 3200 | 15 | 41 | 33 | 59 | 579939 | -2104 | 577835 |

Line 3800N

| | | | | | | | | |
|------|------|----|----|----|----|--------|------|--------|
| 3800 | 3200 | 14 | 1 | 11 | 20 | 577332 | -92 | 577240 |
| 3800 | 3150 | 14 | 6 | 59 | 21 | 577495 | -99 | 577396 |
| 3800 | 3100 | 14 | 10 | 28 | 22 | 577927 | -102 | 577825 |
| 3800 | 3050 | 14 | 14 | 8 | 23 | 577954 | -99 | 577855 |
| 3800 | 3000 | 14 | 17 | 38 | 24 | 578662 | -100 | 578562 |
| 3800 | 2950 | 14 | 20 | 22 | 25 | 578832 | -106 | 578726 |
| 3800 | 2900 | 14 | 25 | 3 | 26 | 578032 | -118 | 577914 |
| 3800 | 2850 | 14 | 27 | 52 | 27 | 578181 | -134 | 578047 |
| 3800 | 2800 | 14 | 35 | 16 | 28 | 577443 | -162 | 577281 |
| 3800 | 2750 | 14 | 39 | 48 | 29 | 577448 | -166 | 577282 |
| 3800 | 2700 | 14 | 44 | 19 | 30 | 577432 | -159 | 577273 |
| 3800 | 2650 | 14 | 47 | 58 | 31 | 577990 | -151 | 577839 |
| 3800 | 2600 | 14 | 54 | 19 | 32 | 577706 | -143 | 577563 |
| 3800 | 2550 | 14 | 57 | 16 | 33 | 577438 | -136 | 577302 |
| 3800 | 2500 | 15 | 6 | 46 | 34 | 577143 | -150 | 576993 |
| 3800 | 2450 | 15 | 10 | 54 | 35 | 576741 | -146 | 576595 |
| 3800 | 2400 | 15 | 13 | 1 | 36 | 577066 | -147 | 576919 |
| 3800 | 2350 | 15 | 18 | 32 | 37 | 577000 | -148 | 576852 |

Appendix II, Total Field Magnetics Data Listing
 North East HH MM SS rec Raw cor Final

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 3800 | 2300 | 15 | 21 | 22 | 38 | 576926 | -142 | 576784 |
| 3800 | 2250 | 15 | 23 | 50 | 39 | 576599 | -143 | 576456 |
| 3800 | 2200 | 16 | 31 | 48 | 335 | 577238 | -544 | 576694 |

Line 3600N

| | | | | | | | | |
|------|------|----|----|----|-----|--------|------|--------|
| 3600 | 2200 | 16 | 36 | 28 | 336 | 576728 | -556 | 576172 |
| 3600 | 2250 | 12 | 40 | 32 | 0 | 577462 | -43 | 577419 |
| 3600 | 2300 | 12 | 43 | 2 | 1 | 576986 | -53 | 576933 |
| 3600 | 2350 | 12 | 45 | 18 | 2 | 577267 | -57 | 577210 |
| 3600 | 2400 | 12 | 47 | 25 | 3 | 576806 | -57 | 576749 |
| 3600 | 2450 | 12 | 50 | 11 | 4 | 577265 | -58 | 577207 |
| 3600 | 2500 | 12 | 52 | 26 | 5 | 577044 | -60 | 576984 |
| 3600 | 2550 | 12 | 55 | 0 | 6 | 577123 | -64 | 577059 |
| 3600 | 2600 | 12 | 59 | 45 | 7 | 577187 | -68 | 577119 |
| 3600 | 2650 | 13 | 4 | 27 | 8 | 577431 | -56 | 577375 |
| 3600 | 2700 | 13 | 7 | 27 | 9 | 577553 | -50 | 577503 |
| 3600 | 2750 | 13 | 11 | 27 | 10 | 577650 | -52 | 577598 |
| 3600 | 2800 | 13 | 15 | 52 | 11 | 577309 | -50 | 577259 |
| 3600 | 2850 | 13 | 18 | 39 | 12 | 578701 | -43 | 578658 |
| 3600 | 2900 | 13 | 22 | 34 | 13 | 578611 | -34 | 578577 |
| 3600 | 2950 | 13 | 25 | 28 | 14 | 578374 | -19 | 578355 |
| 3600 | 3000 | 13 | 29 | 23 | 15 | 578456 | -23 | 578433 |
| 3600 | 3050 | 13 | 32 | 30 | 16 | 577655 | -29 | 577626 |
| 3600 | 3100 | 13 | 36 | 14 | 17 | 577350 | -38 | 577312 |
| 3600 | 3150 | 13 | 40 | 29 | 18 | 577543 | -46 | 577497 |
| 3600 | 3200 | 13 | 42 | 49 | 19 | 577436 | -49 | 577387 |

Line 3400N

| | | | | | | | | |
|------|-------|----|----|----|----|--------|------|--------|
| 3400 | 0 | 11 | 34 | 18 | 78 | 572650 | -130 | 572520 |
| 3400 | -50 | 11 | 36 | 33 | 79 | 573601 | -131 | 573470 |
| 3400 | -100 | 11 | 38 | 36 | 80 | 572858 | -133 | 572725 |
| 3400 | -150 | 11 | 40 | 48 | 81 | 574435 | -133 | 574302 |
| 3400 | -200 | 11 | 43 | 1 | 82 | 571316 | -132 | 571184 |
| 3400 | -250 | 11 | 46 | 3 | 83 | 570957 | -130 | 570827 |
| 3400 | -300 | 11 | 50 | 49 | 84 | 569815 | -130 | 569685 |
| 3400 | -350 | 11 | 56 | 46 | 85 | 572601 | -133 | 572468 |
| 3400 | -400 | 11 | 59 | 28 | 86 | 570551 | -133 | 570418 |
| 3400 | -450 | 12 | 7 | 45 | 87 | 598151 | -131 | 598020 |
| 3400 | -500 | 12 | 11 | 52 | 88 | 575690 | -130 | 575560 |
| 3400 | -550 | 12 | 17 | 10 | 89 | 577338 | -128 | 577210 |
| 3400 | -600 | 12 | 20 | 27 | 90 | 578681 | -131 | 578550 |
| 3400 | -650 | 12 | 24 | 13 | 91 | 581459 | -125 | 581334 |
| 3400 | -700 | 12 | 29 | 8 | 92 | 580359 | -123 | 580236 |
| 3400 | -750 | 12 | 33 | 52 | 93 | 577531 | -117 | 577414 |
| 3400 | -800 | 12 | 38 | 35 | 94 | 609977 | -119 | 609858 |
| 3400 | -850 | 12 | 44 | 58 | 95 | 616449 | -122 | 616327 |
| 3400 | -900 | 12 | 49 | 24 | 96 | 601261 | -124 | 601137 |
| 3400 | -950 | 12 | 53 | 32 | 97 | 588202 | -123 | 588079 |
| 3400 | -1000 | 12 | 57 | 4 | 98 | 603968 | -128 | 603840 |

Line 3200N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|------|--------|
| 3200 | -1150 | 13 | 18 | 2 | 99 | 617280 | -115 | 617165 |
| 3200 | -1100 | 13 | 21 | 47 | 100 | 599080 | -111 | 598969 |
| 3200 | -1050 | 13 | 23 | 28 | 101 | 598139 | -117 | 598022 |
| 3200 | -1000 | 13 | 25 | 32 | 102 | 612371 | -119 | 612252 |
| 3200 | -950 | 13 | 27 | 20 | 103 | 627298 | -121 | 627177 |
| 3200 | -900 | 13 | 31 | 53 | 104 | 594256 | -129 | 594127 |
| 3200 | -850 | 13 | 33 | 43 | 105 | 585170 | -137 | 585033 |
| 3200 | -800 | 13 | 36 | 28 | 106 | 585486 | -143 | 585343 |
| 3200 | -750 | 13 | 38 | 31 | 107 | 582192 | -144 | 582048 |
| 3200 | -700 | 13 | 40 | 39 | 108 | 581020 | -146 | 580874 |
| 3200 | -650 | 13 | 42 | 34 | 109 | 579731 | -142 | 579589 |
| 3200 | -600 | 13 | 46 | 30 | 110 | 577811 | -145 | 577666 |
| 3200 | -550 | 13 | 53 | 15 | 111 | 575441 | -142 | 575299 |
| 3200 | -500 | 13 | 55 | 2 | 112 | 574384 | -135 | 574249 |
| 3200 | -450 | 13 | 59 | 21 | 113 | 574262 | -135 | 574127 |
| 3200 | -400 | 14 | 1 | 29 | 114 | 573052 | -130 | 572922 |
| 3200 | -350 | 14 | 5 | 14 | 115 | 572286 | -124 | 572162 |
| 3200 | -300 | 14 | 9 | 43 | 116 | 571300 | -118 | 571182 |
| 3200 | -250 | 14 | 21 | 13 | 117 | 572916 | -111 | 572805 |
| 3200 | -200 | 14 | 23 | 19 | 118 | 572691 | -103 | 572588 |
| 3200 | -150 | 14 | 27 | 32 | 119 | 571931 | -100 | 571831 |
| 3200 | -100 | 14 | 38 | 22 | 120 | 572542 | -95 | 572447 |
| 3200 | -50 | 14 | 40 | 22 | 121 | 573458 | -95 | 573363 |
| 3200 | 0 | 14 | 43 | 30 | 122 | 573869 | -88 | 573781 |

Line 3000N

| | | | | | | | | |
|------|-------|---|----|----|-----|--------|-----|--------|
| 3000 | 0 | 8 | 31 | 45 | 123 | 573488 | -82 | 573406 |
| 3000 | -50 | 8 | 33 | 48 | 124 | 573268 | -82 | 573186 |
| 3000 | -100 | 8 | 35 | 47 | 125 | 573281 | -82 | 573199 |
| 3000 | -150 | 8 | 38 | 21 | 126 | 573391 | -82 | 573309 |
| 3000 | -200 | 8 | 40 | 9 | 127 | 572534 | -82 | 572452 |
| 3000 | -250 | 8 | 42 | 14 | 128 | 572242 | -82 | 572160 |
| 3000 | -300 | 8 | 45 | 6 | 129 | 572156 | -82 | 572074 |
| 3000 | -350 | 8 | 48 | 40 | 130 | 573115 | -82 | 573033 |
| 3000 | -400 | 8 | 51 | 12 | 131 | 572684 | -82 | 572602 |
| 3000 | -450 | 8 | 53 | 9 | 132 | 572570 | -82 | 572488 |
| 3000 | -500 | 8 | 55 | 23 | 133 | 572384 | -82 | 572302 |
| 3000 | -550 | 8 | 58 | 49 | 134 | 575572 | -82 | 575490 |
| 3000 | -600 | 9 | 1 | 2 | 135 | 574175 | -82 | 574093 |
| 3000 | -650 | 9 | 2 | 55 | 136 | 574490 | -82 | 574408 |
| 3000 | -700 | 9 | 5 | 1 | 137 | 575440 | -82 | 575358 |
| 3000 | -750 | 9 | 7 | 44 | 138 | 578200 | -82 | 578118 |
| 3000 | -800 | 9 | 10 | 23 | 139 | 578495 | -82 | 578413 |
| 3000 | -850 | 9 | 12 | 14 | 140 | 581013 | -82 | 580931 |
| 3000 | -900 | 9 | 14 | 26 | 141 | 582988 | -82 | 582906 |
| 3000 | -950 | 9 | 17 | 15 | 142 | 585267 | -82 | 585185 |
| 3000 | -1000 | 9 | 19 | 11 | 143 | 588644 | -82 | 588562 |

Line 2800N

| | | | | | | | | |
|------|-------|---|----|----|-----|--------|-----|--------|
| 2800 | -1000 | 9 | 30 | 19 | 144 | 590972 | -82 | 590890 |
| 2800 | -950 | 9 | 33 | 18 | 145 | 588881 | -82 | 588799 |
| 2800 | -900 | 9 | 35 | 9 | 146 | 586546 | -82 | 586464 |

| | | | | | | | | |
|------|------|----|----|----|-----|--------|-----|--------|
| 2800 | -850 | 9 | 37 | 20 | 147 | 584470 | -82 | 584388 |
| 2800 | -800 | 9 | 39 | 23 | 148 | 579840 | -82 | 579758 |
| 2800 | -750 | 9 | 42 | 12 | 149 | 576653 | -82 | 576571 |
| 2800 | -700 | 9 | 44 | 17 | 150 | 575347 | -82 | 575265 |
| 2800 | -650 | 9 | 46 | 22 | 151 | 574989 | -81 | 574908 |
| 2800 | -600 | 9 | 48 | 40 | 152 | 572820 | -95 | 572725 |
| 2800 | -550 | 9 | 51 | 8 | 153 | 572766 | -90 | 572676 |
| 2800 | -500 | 9 | 52 | 48 | 154 | 573225 | -90 | 573135 |
| 2800 | -450 | 9 | 55 | 41 | 155 | 571951 | -88 | 571863 |
| 2800 | -400 | 9 | 58 | 5 | 156 | 572146 | -86 | 572060 |
| 2800 | -350 | 9 | 59 | 54 | 157 | 572553 | -85 | 572468 |
| 2800 | -300 | 10 | 2 | 0 | 158 | 573379 | -84 | 573295 |
| 2800 | -250 | 10 | 4 | 32 | 159 | 573818 | -85 | 573733 |
| 2800 | -200 | 10 | 6 | 31 | 160 | 573470 | -83 | 573387 |
| 2800 | -150 | 10 | 8 | 24 | 161 | 572933 | -81 | 572852 |
| 2800 | -100 | 10 | 11 | 8 | 162 | 572943 | -80 | 572863 |
| 2800 | -50 | 10 | 13 | 22 | 163 | 573438 | -80 | 573358 |
| 2800 | 0 | 10 | 15 | 23 | 164 | 574054 | -81 | 573973 |

Line 2600N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|-----|--------|
| 2600 | 0 | 11 | 3 | 22 | 165 | 573694 | -61 | 573633 |
| 2600 | -50 | 11 | 6 | 28 | 166 | 573176 | -62 | 573114 |
| 2600 | -100 | 11 | 8 | 16 | 167 | 573274 | -60 | 573214 |
| 2600 | -150 | 11 | 10 | 15 | 168 | 572804 | -60 | 572744 |
| 2600 | -200 | 11 | 12 | 11 | 169 | 572748 | -59 | 572689 |
| 2600 | -250 | 11 | 14 | 37 | 170 | 572440 | -58 | 572382 |
| 2600 | -300 | 11 | 16 | 54 | 171 | 572137 | -59 | 572078 |
| 2600 | -350 | 11 | 19 | 5 | 172 | 572050 | -59 | 571991 |
| 2600 | -400 | 11 | 23 | 56 | 173 | 572466 | -56 | 572410 |
| 2600 | -450 | 11 | 27 | 51 | 174 | 573090 | -57 | 573033 |
| 2600 | -500 | 11 | 30 | 2 | 175 | 571562 | -57 | 571505 |
| 2600 | -550 | 11 | 33 | 39 | 176 | 569519 | -57 | 569462 |
| 2600 | -600 | 11 | 40 | 1 | 177 | 575744 | -53 | 575691 |
| 2600 | -650 | 11 | 42 | 24 | 178 | 575129 | -53 | 575076 |
| 2600 | -700 | 11 | 44 | 2 | 179 | 576269 | -51 | 576218 |
| 2600 | -750 | 11 | 45 | 43 | 180 | 577936 | -52 | 577884 |
| 2600 | -800 | 11 | 47 | 44 | 181 | 579665 | -53 | 579612 |
| 2600 | -850 | 11 | 49 | 41 | 182 | 581867 | -53 | 581814 |
| 2600 | -900 | 11 | 51 | 55 | 183 | 583577 | -51 | 583526 |
| 2600 | -950 | 11 | 53 | 21 | 184 | 584782 | -47 | 584735 |
| 2600 | -1000 | 11 | 54 | 54 | 185 | 585515 | -51 | 585464 |

Line 2400N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|-----|--------|
| 2400 | -1000 | 12 | 5 | 50 | 186 | 582556 | -44 | 582512 |
| 2400 | -950 | 12 | 8 | 15 | 187 | 581249 | -44 | 581205 |
| 2400 | -900 | 12 | 10 | 11 | 188 | 579556 | -41 | 579515 |
| 2400 | -850 | 12 | 12 | 18 | 189 | 577905 | -40 | 577865 |
| 2400 | -800 | 12 | 14 | 10 | 190 | 576713 | -40 | 576673 |
| 2400 | -750 | 12 | 16 | 4 | 191 | 575963 | -38 | 575925 |
| 2400 | -700 | 12 | 18 | 35 | 192 | 573353 | -36 | 573317 |
| 2400 | -650 | 12 | 20 | 56 | 193 | 573185 | -35 | 573150 |
| 2400 | -600 | 12 | 22 | 34 | 194 | 573086 | -36 | 573050 |

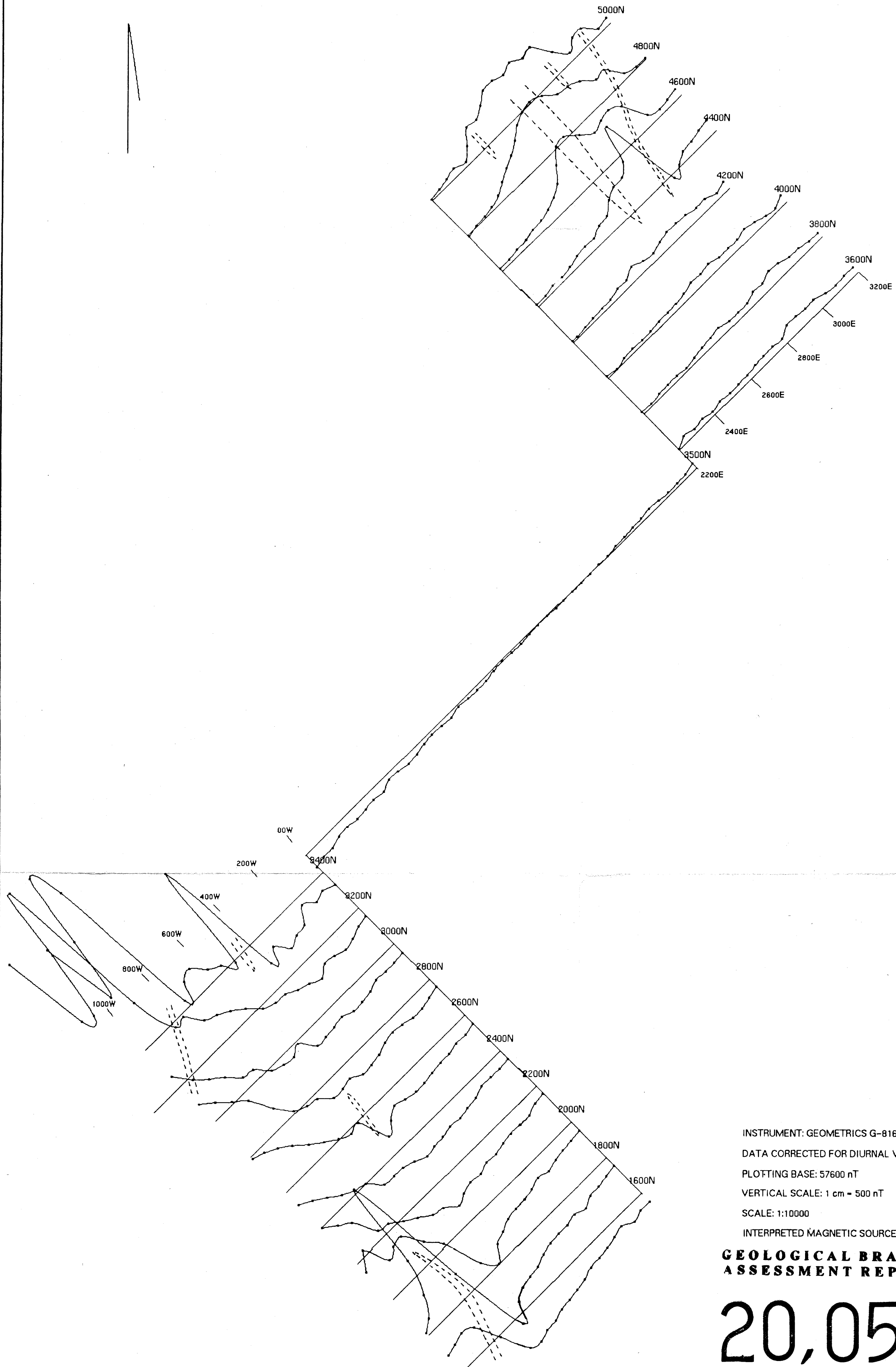
| | | | | | | | | |
|------|------|----|----|----|-----|--------|-----|--------|
| 2400 | -550 | 12 | 24 | 30 | 195 | 572334 | -32 | 572302 |
| 2400 | -500 | 12 | 26 | 28 | 196 | 571318 | -28 | 571290 |
| 2400 | -450 | 12 | 28 | 30 | 197 | 571692 | -27 | 571665 |
| 2400 | -400 | 12 | 32 | 18 | 198 | 571825 | -23 | 571802 |
| 2400 | -350 | 12 | 34 | 48 | 199 | 572391 | -23 | 572368 |
| 2400 | -300 | 12 | 36 | 53 | 200 | 572072 | -21 | 572051 |
| 2400 | -250 | 12 | 39 | 14 | 201 | 572508 | -21 | 572487 |
| 2400 | -200 | 12 | 41 | 25 | 202 | 572863 | -20 | 572843 |
| 2400 | -150 | 12 | 44 | 1 | 203 | 573635 | -18 | 573617 |
| 2400 | -100 | 12 | 46 | 9 | 204 | 573642 | -17 | 573625 |
| 2400 | -50 | 12 | 48 | 2 | 205 | 573568 | -16 | 573552 |
| 2400 | 0 | 12 | 49 | 16 | 206 | 573827 | -18 | 573809 |

Line 2200N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|-----|--------|
| 2200 | 0 | 13 | 25 | 58 | 207 | 573994 | -22 | 573972 |
| 2200 | -50 | 13 | 27 | 50 | 208 | 573809 | -25 | 573784 |
| 2200 | -100 | 13 | 29 | 33 | 209 | 572888 | -26 | 572862 |
| 2200 | -150 | 13 | 31 | 15 | 210 | 572885 | -26 | 572859 |
| 2200 | -200 | 13 | 34 | 14 | 211 | 572889 | -30 | 572859 |
| 2200 | -250 | 13 | 36 | 45 | 212 | 572533 | -32 | 572501 |
| 2200 | -300 | 13 | 38 | 28 | 213 | 572064 | -35 | 572029 |
| 2200 | -350 | 13 | 41 | 59 | 214 | 572158 | -40 | 572118 |
| 2200 | -400 | 13 | 43 | 53 | 215 | 571368 | -41 | 571327 |
| 2200 | -450 | 13 | 46 | 23 | 216 | 571658 | -44 | 571614 |
| 2200 | -500 | 13 | 48 | 29 | 217 | 570914 | -47 | 570867 |
| 2200 | -550 | 13 | 51 | 7 | 218 | 569833 | -50 | 569783 |
| 2200 | -600 | 13 | 54 | 1 | 219 | 571720 | -50 | 571670 |
| 2200 | -650 | 13 | 57 | 10 | 220 | 572196 | -55 | 572141 |
| 2200 | -700 | 13 | 59 | 33 | 221 | 573928 | -58 | 573870 |
| 2200 | -750 | 14 | 1 | 54 | 222 | 575404 | -60 | 575344 |
| 2200 | -800 | 14 | 4 | 23 | 223 | 577222 | -61 | 577161 |
| 2200 | -850 | 14 | 7 | 38 | 224 | 577782 | -63 | 577719 |
| 2200 | -900 | 14 | 13 | 47 | 225 | 582507 | -66 | 582441 |
| 2200 | -950 | 14 | 16 | 10 | 226 | 584081 | -69 | 584012 |
| 2200 | -1000 | 14 | 18 | 11 | 227 | 585944 | -71 | 585873 |

Line 2000N

| | | | | | | | | |
|------|-------|----|----|----|-----|--------|------|--------|
| 2000 | -1000 | 14 | 35 | 40 | 228 | 583678 | -86 | 583592 |
| 2000 | -950 | 14 | 38 | 39 | 229 | 587259 | -90 | 587169 |
| 2000 | -900 | 14 | 40 | 56 | 230 | 582159 | -89 | 582070 |
| 2000 | -850 | 14 | 43 | 32 | 231 | 583303 | -90 | 583213 |
| 2000 | -800 | 14 | 46 | 8 | 232 | 583739 | -93 | 583646 |
| 2000 | -750 | 14 | 48 | 8 | 233 | 579720 | -96 | 579624 |
| 2000 | -700 | 14 | 51 | 27 | 234 | 576634 | -97 | 576537 |
| 2000 | -650 | 14 | 55 | 15 | 235 | 568950 | -102 | 568848 |
| 2000 | -600 | 14 | 57 | 34 | 236 | 566108 | -103 | 566005 |
| 2000 | -550 | 15 | 0 | 53 | 237 | 569105 | -106 | 568999 |
| 2000 | -500 | 15 | 3 | 47 | 238 | 570046 | -110 | 569936 |
| 2000 | -450 | 15 | 5 | 40 | 239 | 571221 | -113 | 571108 |
| 2000 | -400 | 15 | 7 | 16 | 240 | 571608 | -117 | 571491 |
| 2000 | -350 | 15 | 9 | 23 | 241 | 571784 | -121 | 571663 |
| 2000 | -300 | 15 | 11 | 30 | 242 | 572136 | -124 | 572012 |



INSTRUMENT: GEOMETRICS G-816 MAGNETOMETER
 DATA CORRECTED FOR DIURNAL VARIATION
 PLOTTING BASE: 57600 nT
 VERTICAL SCALE: 1 cm = 500 nT
 SCALE: 1:10000
 INTERPRETED MAGNETIC SOURCE

**GEOLOGICAL BRANCH
 ASSESSMENT REPORT**

20,052

K.V. CAMPBELL & ASSOCIATES LTD.
 BLACKWATER CLAIMS
 CARIBOO MINING DIVISION

STACKED PROFILE MAP
 TOTAL FIELD MAGNETICS (nT)

DATE: MARCH, 1980 NTS 83G/2 FIG. 5