# BRITISH COLUMBIA

# PROSPECTORS ASSISTANCE PROGRAM

# MINISTRY OF ENERGY AND MINES

# GEOLOGICAL SURVEY BRANCH

| | |
|---|---|
| PROGRAM YEAR: | 1999/2000 |
| REPORT #: | PAP 99-19 |
| NAME: | EDWARD BROWN |

**BRITISH COLUMBIA**
**PROSPECTORS ASSISTANCE PROGRAM**
**PROSPECTING REPORT FORM (continued)**



## B. TECHNICAL REPORT

- One technical report to be completed for each project area.
- **Refer to Program Requirements/Regulations 15 to 17, page 6.**
- If work was performed on claims a copy of the applicable assessment report may be submitted in lieu of the supporting data (see section 16) required with this TECHNICAL REPORT.

Name Edward Brown Reference Number 99/2000 P40

**LOCATION/COMMODITIES**

Project Area (as listed in Part A) Gold Drop MINFILE No. if applicable 82ESE 152, 153

Location of Project Area NTS 82E/2E Lat 49° 10' Long 118° 36'

Description of Location and Access 9 km NE of Greenwood, east of Jewel Lake. See attached report for details of access.

Main Commodities Searched For Au

Known Mineral Occurrences in Project Area

**WORK PERFORMED**

1. Conventional Prospecting (area) 5 $km^2$
2. Geological Mapping (hectares/scale) 3 $km^2$, 1:2500 & 1:500 underground mapping
3. Geochemical (type and no. of samples) 22 rock samples, 4 20 kg bulk samples for mill testing
4. Geophysical (type and line km)
5. Physical Work (type and amount) 70 m underground drifting, 1 blast trench
6. Drilling (no. holes, size, depth in m, total m)
7. Other (specify)

**SIGNIFICANT RESULTS**

Commodities Au Claim Name Gold Drop, North Star

Location (show on map) Lat 49° 10' Long 118° 36' Elevation 4700'

Best assay/sample type 6D99-3 0.138 oz/t Au NW striking vein on Gold Drop; 6D99-7 0.41 oz/t Au North Star vein, surface; 6D99-17 0.129 oz/t Au Lower Gold Drop Adit.

Description of mineralization, host rocks, anomalies

Numerous narrow quartz veins are exposed on surface in old workings, as well as underground. Veins are hosted within metamorphic rocks, and are generally NE trending.

**Supporting data must be submitted with this TECHNICAL REPORT**

**Information on this form is confidential for one year from the date of receipt subject to the provisions of the *Freedom of Information Act.***

**BRITISH COLUMBIA PROSPECTOR'S ASSISTANCE PROGRAM**

**Part B – Technical Report**

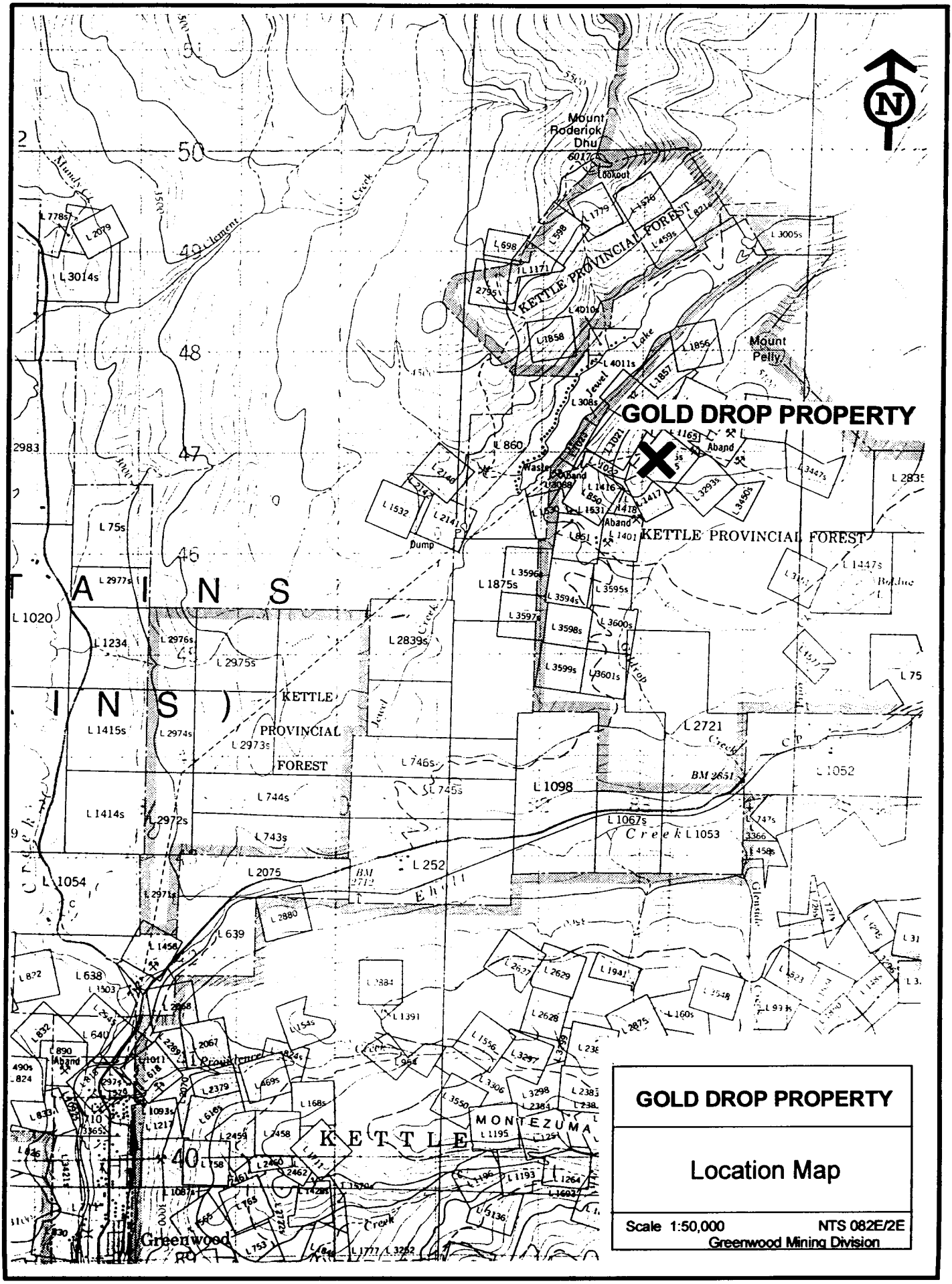
**Location, Claims and Access:**

The Gold Drop property is located in the Jewel Lake Camp, about 9 km northeast of Greenwood, on NTS 82E/2E as shown on the attached location map. Work during 1999 was done on the eastern portion of the claim block, on the slopes of Pelly Mountain. The Gold Drop claim, where the active underground workings are located, is at UTM 5446900N, 383350E.

The eastern portion of the claims are accessed as follows: From Greenwood, go north on Highway 3 for 4 km to the Boundary Creek Road. Turn left for 1.5 km to the Jewel Lake Road, then turn right for 9 km. Turn right onto the Jewel Lake – Eholt road. Go about 3 km, through the Dentonia Mine site, then turn left onto the mine access road for about 1 km to the Gold Drop workings.

The property consists of 64 units, as listed below and shown on the claim map. The claims are owned by Edward Brown, FMC # 103401.

| Tenure # | Claim Name | Units | Expiry Date |
|---|---|---|---|
| L 1165 | North Star CG | 1 | |
| L 2853 | Cairn Gorn CG | 1 | |
| 214207 | Gold Drop Extension | 1 | Nov 8, 1999 |
| 214208 | Gold Drop Fraction | 1 | Nov 8, 1999 |
| 214209 | Gold Drop | 1 | Nov 8, 1999 |
| 214226 | Golden Eagle | 1 | Mar 29, 2000 |
| 214227 | Old Bird | 1 | Mar 29, 2000 |
| 214228 | Silent Friend | 1 | Mar 29, 2000 |
| 214361 | Lakeview | 1 | Nov 5, 1999 |
| 214428 | Gem | 1 | Feb 15, 2000 |
| 214495 | Kenar | 6 | Sept 15, 1999 |
| 215696 | Ken 1 | 1 | April 25, 2000 |
| 215697 | Ken 2 | 1 | April 25, 2000 |
| 215698 | Ken 3 | 1 | April 25, 2000 |
| 215699 | Ken 4 | 1 | April 25, 2000 |
| 215700 | Ken 5 | 1 | April 25, 2000 |
| 215701 | Ken 6 | 1 | April 25, 2000 |
| 215869 | Rheanna 1 | 1 | Sept 17, 1999 |
| 215870 | Rheanna 2 | 1 | Sept 17, 1999 |
| 215871 | Rheanna 3 | 1 | Sept 17, 1999 |
| 215872 | Rheanna 4 | 1 | Sept 17, 1999 |
| 215873 | Rheanna 5 | 1 | Sept 17, 1999 |
| 215874 | Rheanna 6 | 1 | Sept 17, 1999 |
| 215875 | Gold Drop 1 | 1 | Sept 19, 1999 |
| 215876 | Gold Drop 2 | 1 | Sept 19, 1999 |
| 215877 | Gold Drop 3 | 1 | Sept 19, 1999 |
| 215878 | Gold Drop 4 | 1 | Sept 19, 1999 |
| 215879 | Gold Drop 5 | 1 | Sept 19, 1999 |
| 215880 | Gold Drop 6 | 1 | Sept 19, 1999 |
| 215881 | Gold Drop 7 | 1 | Sept 19, 1999 |
| 215882 | Gold Drop 8 | 1 | Sept 19, 1999 |
| 215912 | Solex 1 | 1 | Sept 23, 1999 |
| 215913 | Solex 2 | 1 | Sept 23, 1999 |
| 215914 | Solex 3 | 1 | Sept 23, 1999 |


GOLD DROP PROPERTY
Mount Roderick Dhu
6017
Lookout
KETTLE PROVINCIAL FOREST
Mount Pelly
Lake
Jewel
Creek
Dump
Abandoned
Waste
Bridge
KETTLE PROVINCIAL FOREST
KETTLE PROVINCIAL FOREST
MONTEZUMA
KETTLE
Greenwood
B.M. 2651
B.M. 2712
L 1020
L 1234
L 1054
L 1098
L 1052
L 1053
L 2721
L 1875s
L 860
L 75s
L 1415s
L 1414s
L 639
L 638
L 252
L 2075
L 2839s
L 1195
L 1193
L 1264
L 1603
L 1777
L 3252
L 1067s
L 1054s
L 1391
L 954
L 1556
L 3297
L 3306
L 3550
L 3298
L 2364
L 2383
L 1941
L 2629
L 2628
L 2627
L 2875
L 1160s
L 1536
L 1523
L 1548
L 1938
L 1219
L 1220
L 1221
L 1222
L 1223
L 1224
L 1225
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L 1231
L 1232
L 1233
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L 1237
L 1238
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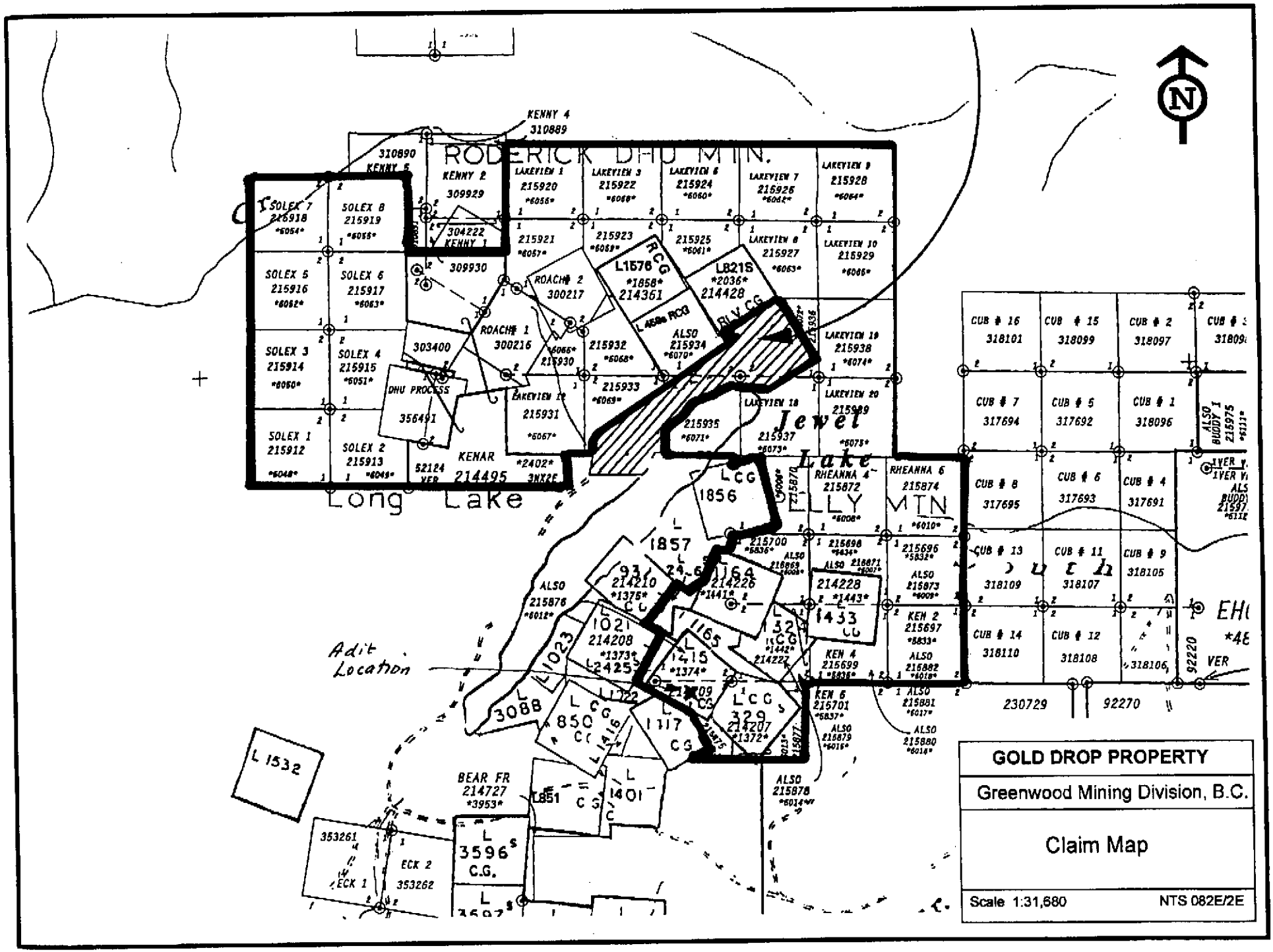
| | | | |
|---|---|---|---|
| 215915 | Solex 4 | 1 | Sept 23, 1999 |
| 215916 | Solex 5 | 1 | Sept 23, 1999 |
| 215917 | Solex 6 | 1 | Sept 23, 1999 |
| 215918 | Solex 7 | 1 | Sept 23, 1999 |
| 215919 | Solex 8 | 1 | Sept 23, 1999 |
| 215920 | Lakeview 1 | 1 | Sept 21, 1999 |
| 215921 | Lakeview 2 | 1 | Sept 21, 1999 |
| 215922 | Lakeview 3 | 1 | Sept 21, 1999 |
| 215923 | Lakeview 4 | 1 | Sept 21, 1999 |
| 215924 | Lakeview 5 | 1 | Sept 21, 1999 |
| 215925 | Lakeview 6 | 1 | Sept 21, 1999 |
| 215926 | Lakeview 7 | 1 | Sept 21, 1999 |
| 215927 | Lakeview 8 | 1 | Sept 21, 1999 |
| 215928 | Lakeview 9 | 1 | Sept 21, 1999 |
| 215929 | Lakeview 10 | 1 | Sept 21, 1999 |
| 215930 | Lakeview 11 | 1 | Sept 22, 1999 |
| 215931 | Lakeview 12 | 1 | Sept 22, 1999 |
| 215932 | Lakeview 13 | 1 | Sept 22, 1999 |
| 215933 | Lakeview 14 | 1 | Sept 22, 1999 |
| 215934 | Lakeview 15 | 1 | Sept 22, 1999 |
| 215935 | Lakeview 16 | 1 | Sept 22, 1999 |
| 215936 | Lakeview 17 | 1 | Sept 22, 1999 |
| 215937 | Lakeview 18 | 1 | Sept 22, 1999 |
| 215938 | Lakeview 19 | 1 | Sept 22, 1999 |
| 215939 | Lakeview 20 | 1 | Sept 22, 1999 |

**General Property Information and Work History:**

The property includes the Gold Drop and North Star Mines (Minfile #082SE153, 082ESE152) as well as the Lake View (Minfile #082ESE056), and numerous other former crown granted mineral claims. Gold bearing quartz veins were first discovered in the Jewel Lake area in the late 1890's, and early work was done on the property at this time. Most of the work in the Jewel Lake area has been on the Dentonia Mine, just south of the Gold Drop property. The Dentonia Mine (Minfile # 082ESE055) produced about 125,000 tonnes at a grade of about 11 g/t Au and 65 g/t Ag.

On the Gold Drop property, a north-northeast striking quartz vein is exposed over a length of about 300 metres. The vein pinches and swells, from less than 1 foot in width, to greater than 12 feet. The dip averages about 55° to the east. Both the Gold Drop and North Star workings are along this vein, which is parallel to and about 500 metres east of the main vein explored on the Dentonia property. The vein is hosted in metamorphic rocks. The sulfide content of the vein is generally very low, with only minor pyrite, galena, chalcopyrite, sphalerite and tellurides. Free gold is present.

There are a number of old workings along the vein, on the Gold Drop and North Star claims, which are described in detail in the old Minister of Mines Annual Reports. Free gold is present and high gold values are reported to be associated with tellurides. Gold grades vary, but can exceed 3 oz/t Au. Production from the North Star is 6,200 tonnes at an average grade of about 4 g/t Au and 77 g/t Ag (mostly during the 1930's). Production from the Gold Drop is 335 tonnes at a grade of 15 g/t Au and 107 g/t Ag, again mostly from the 1930's.


N
KENNY 4
310889
310890
KENNY 5
KENNY 2
309929
304222
KENNY 1
309930
RODERICK DHU MTN.
LAKEVIEW 1
215920
LAKEVIEW 3
215922
LAKEVIEW 6
215924
LAKEVIEW 7
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LAKEVIEW 9
215928
LAKEVIEW 8
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LAKEVIEW 10
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SOLEX 7
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SOLEX 8
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SOLEX 5
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SOLEX 6
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SOLEX 3
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SOLEX 4
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SOLEX 1
215912
SOLEX 2
215913
215921
215923
215925
ROACH# 2
300217
ROACH# 1
300216
303400
215932
215933
215931
DHU PROCESS
356491
KENAR
214495
52124
L1576
*1858*
214361
L1215
*2036*
214428
ALSO
215934
LAKEVIEW 19
215938
LAKEVIEW 18
LAKEVIEW 20
215939
215935
215937
Jewel
Lake
Long Lake
RHEANNA 4
215872
RHEANNA 6
215874
ELLY
MTN
LCG
1856
1857
215700
ALSO
215876
214210
*1375*
214226
*1441*
214228
*1443*
1433
KEN 2
215697
KEN 4
215699
KEN 6
215701
ALSO
215881
ALSO
215880
ALSO
215878
1021
214208
*1373*
1415
*1374*
1165
1132
1023
2425
3088
850
1416
1122
1117
329
214207
*1372*
1401
Adit
Location
L 1532
BEAR FR
214727
*3953*
353261
ECK 2
353262
ECK 1
3596
C.G.
CUB # 16
318101
CUB # 15
318099
CUB # 2
318097
CUB # 7
317694
CUB # 5
317692
CUB # 1
318096
CUB # 8
317695
CUB # 6
317693
CUB # 4
317691
CUB # 13
318109
CUB # 11
318107
CUB # 9
318105
CUB # 14
318110
CUB # 12
318108
318106
ALSO
BUDDY 1
215975
230729
92270
92220
VER
GOLD DROP PROPERTY
Greenwood Mining Division, B.C.
Claim Map
Scale 1:31,680
NTS 082E/2E

Kenar Resources optioned the property in 1980 and did a rock sampling program in the old working on the Gold Drop and North Star claims (Phendler, 1981). In 1981, Kenar Resources completed a $56,000 exploration program on the claims, in the area of the Gold Drop and North Star workings. A very small soil sample grid was done, with 75 samples collected. Six BQ size drill holes, for a total of 1,584 feet, were drilled to test the vein below the Gold Drop and North Star workings (Basco, 1981). In 1983, they did a $13,000 follow-up program of geological mapping, additional soil sampling, rock sampling and trenching. Again, work done was in a very small area right around the Gold Drop and North Star workings (Peto, 1983). Ed Brown acquired the claims from Kenar Resources.

The property was optioned to Trojan Ventures in the early 1990's, and a small amount of work was done (including some trenching) which was not filed for assessment.

During 1998, Ed Brown, Doug Redden and Clem Cyr rehabilitated the lower Gold Drop adit and began drifting to intersect the Gold Drop vein about 80 feet below the upper level. During 1998, 30 metres of drifting was completed. The intent was to provide a good, fresh exposure on the vein, to prove up tonnage on the vein by drifting north along it towards the North Star, and to test the grade of the vein by bulk sampling.

**Prospecting Program:**

During 1999 the eastern part of the claim block was prospected in detail to locate all old workings, to follow up areas of anomalous soils from past work, and in an attempt to discover new areas of quartz veining. In particular, areas of rumored veining were prospected in detail. The attached 1:2500 scale map shows the geology, old workings and rock sample locations. The lack of outcrop in many places on the claims made prospecting difficult, however there was some success. Samples were collected where warranted and all new veins or undocumented old workings were sampled. The number of samples collected was much less than anticipated, however, due to the low number of new discoveries made. A total of 22 rock samples were collected and a complete list of sample descriptions is attached, as are the analytical results.

A new vein was discovered in outcrop about 100 metres south of the Lower North Star Adit. The vein was narrow where discovered, with no evidence of any previous exploration. A sample collected from the vein (GD99-9) returned only 130 ppb Au.

A second area of veining, in subcrop, was discovered in the Silent Friend area. The subcrop was situated approximately on strike of the vein explored by numerous old workings and sampled as GD99-5, 11 and 12. Previous reporting indicated up to 0.548 oz/t Au from this vein, however the samples collected during this program returned a maximum of 1700 ppb Au and 13.5 ppm Ag. The float discovered was 100 metres beyond the northern most working, but was barren.

In the western portion of the property, and on the adjoining Laura crown grant, an area of sheeted quartz veinlets in diorite was discovered and sampled (GD99-4). This was felt to be an encouraging sign of possible bulk tonnage targets indicative of an Intrusive Hosted Gold system. The sample was disappointingly low in gold (20 ppb). however, and none of the other trace elements which would have supported this model (ie. W, Bi) were anomalous either.

An attempt was made to provide better exposures of surface veins by blast trenching, on veins where gold values were highest. This proved to be largely unsuccessful, because the amount of overburden made drilling the blast holes difficult. One pit was completed on the north striking vein, northwest of the Gold Drop adit where a sample of vein material from the dump of a caved pit with no rock exposure (GD99-3) had returned 4740 ppb Au. A pit was blasted along the vein and two samples were collected, one of vein material and one of mineralized wall rock (GD99-21, 22). The vein was narrow at the point it was exposed, only about 20 cm wide. It was very crushed and broken and occurs within a rusty fault zone. The vein is hosted in pyritic siliceous argillite with patchy quartz. Neither sample collected was anomalous in gold or silver.

Blast trenching was attempted at the Old Bird showing. One sample was collected from vein material on the dump at this working (GD99-6), which was not anomalous, however previous reports show up to 0.214 oz/t Au from this vein and high grade vein material was picked from the dump and processed. Because of this, and because of the lack of vein exposure and lack of other workings on this vein, further exploration on this vein system was felt to be a high priority. Unfortunately, it proved impossible to use the plugger because of the amount of overburden. This area should be trenched using a backhoe, but could not be done in 1999 as there was no permitting in place for this.

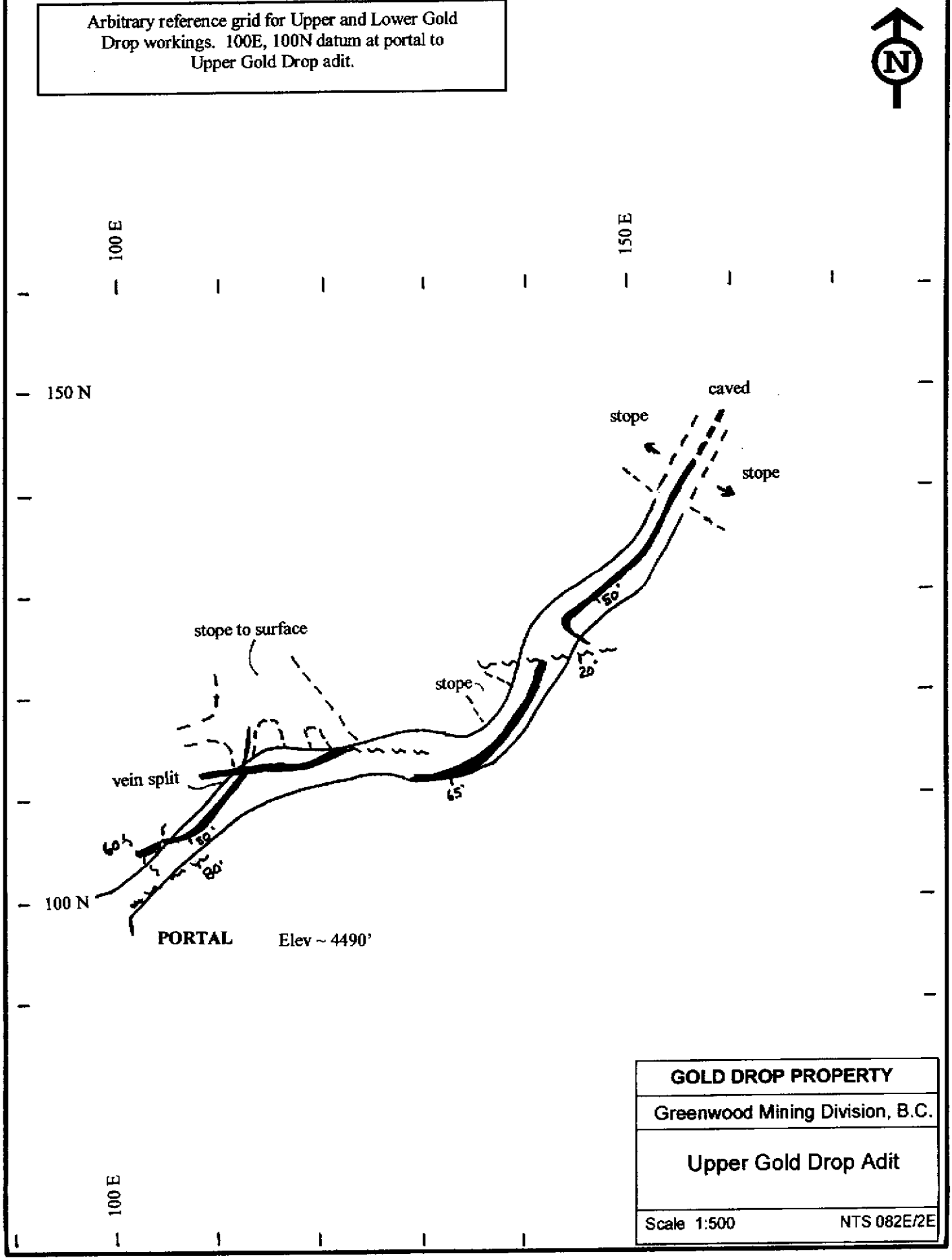
Trenching should also attempt to trace the vein on the Silent Friend, sampled as GD99-1. This sample returned 2070 ppb Au, and previous samples show 0.155 oz/t Au from the vein, and up to 1.5 oz/t Au from mineralized float nearby. This trenching should also be done using a backhoe.

During 1999, the Lower Gold Drop adit was extended to intersect the Gold Drop vein at the point where the split, visible in the Upper adit, occurs. This split was hit after drifting for about 40 metres. The vein was then drifted on for 10 metres to the southwest, and for 20 metres to the northeast. Detailed maps of both the Upper and Lower Gold Drop adits are included. The vein is very irregular, in strike, dip, width and character. This makes it difficult to predict it's position. In order to follow the vein it must be drifted along. Eight samples were collected from the Lower Gold Drop adit, as shown on the attached map. Seven of these samples were collected from vein material, and one from gougy, pyritic altered metasediment wall rock in the final face. The best sample was GD99-17, collected about 3 metres back from the final face, which returned 0.129 oz/t Au.

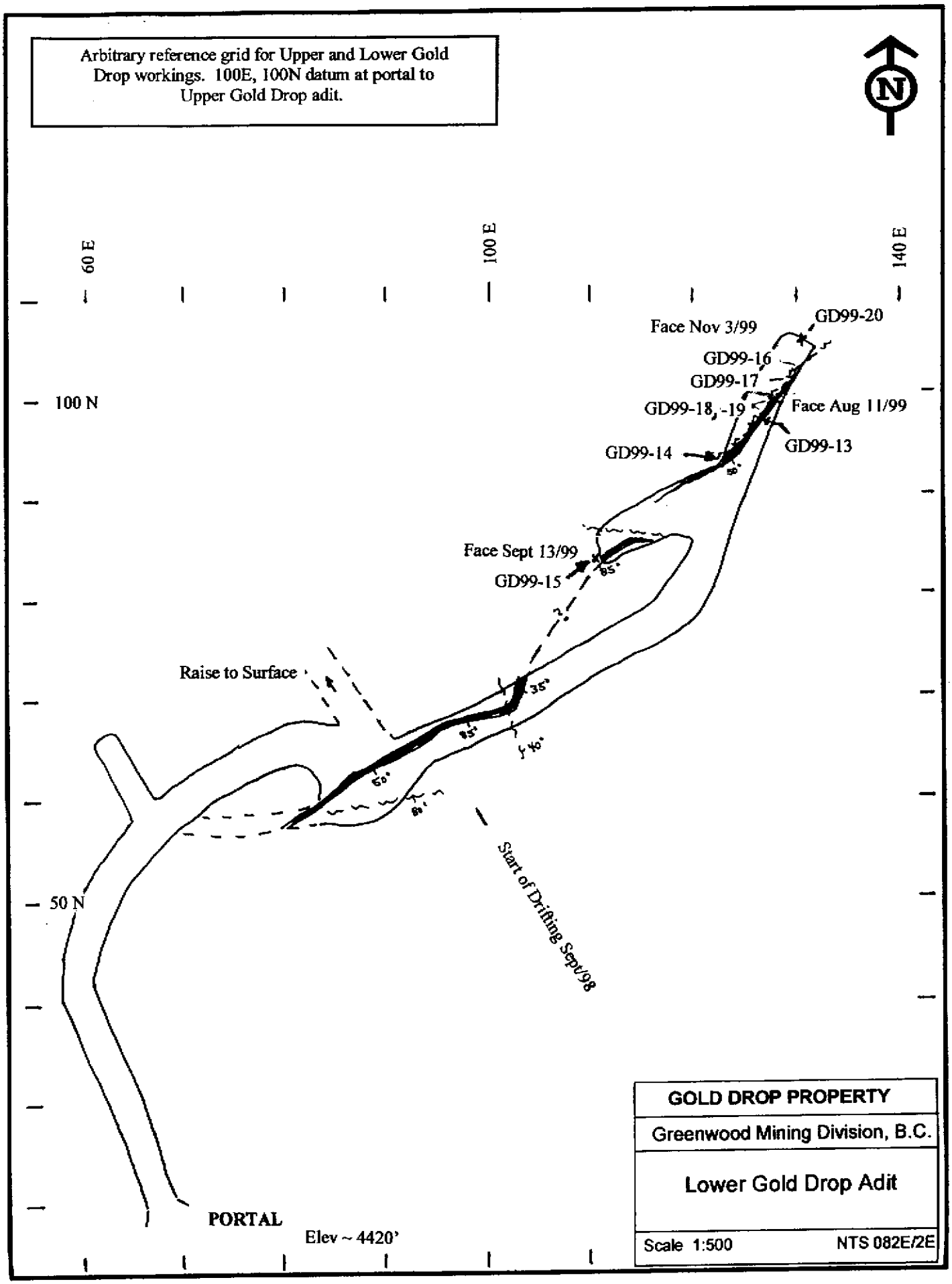
Visible gold was apparent in vein material from the final face and a bulk sample was collected for mill testing at the test plant in Greenwood. Four 20 kg samples of sorted vein material were run. Samples were passed through the rod mill for griding, then run through a gravity and a flotation circuit. Approximately 65% of the gold was recovered through the gravity circuit, with the remained coming off in the flotation circuit. The samples indicated a head grade of 0.75 oz/t Au.

The Gold Drop – North Star vein system is exposed on surface and in underground workings over an elevation range of > 200 metres. Samples were collected from upper, middle and lower levels on the vein to test for metal zonation. Gold/silver ratios are consistently << 1, with no real variation detected from top to bottom level, nor are there variations in other elements which show any useful zonation patterns.

Arbitrary reference grid for Upper and Lower Gold Drop workings. 100E, 100N datum at portal to Upper Gold Drop adit.




| GOLD DROP PROPERTY | |
|---|---|
| Greenwood Mining Division, B.C. | |
| Upper Gold Drop Adit | |
| Scale 1:500 | NTS 082E/2E |


Arbitrary reference grid for Upper and Lower Gold Drop workings. 100E, 100N datum at portal to Upper Gold Drop adit.
N
60 E
100 E
140 E
100 N
50 N
Face Nov 3/99
GD99-20
GD99-16
GD99-17
GD99-18, -19
Face Aug 11/99
GD99-13
GD99-14
Face Sept 13/99
GD99-15
Raise to Surface
Start of Drifting Sept/98
PORTAL
Elev ~ 4420'
GOLD DROP PROPERTY
Greenwood Mining Division, B.C.
Lower Gold Drop Adit
Scale 1:500
NTS 082E/2E

**References:**


Basco, D., 1981.
Drilling and Geochem Soil Survey on Gold Drop Property, for Kenar Resources.
Assessment Report 9961.

Church, B.N. and J. Winsby, 1974.
Denero Grande, Jewel (82E/2E) in Geology, Exploration and Mining in British Columbia, B.C.
Ministry of Energy, Mines and Petroleum Resources, 1974, pp. 39-51.

Church, B.N., 1986.
Geology of the Phoenix-Mount Attwood area. B.C. Ministry of Energy, Mines and Petroleum
Resources, Paper 1986-2.

Minfile #'s 082ESE055, 056, 125, 126, 127, 150, 151, 152, 153, 224, 225, 239

B.C. Ministry of Mines Annual Reports

| | |
|---|---|
| 1925 p. A198-199 | 1933 p.A158-160; |
| 1931 p.A125-126 | 1936 p.D23-25; |
| 1932 p. A130 | 1946 p.A136. |

Peto, P., 1983.
Geological, Geochemical, Geophysical Report on the Gold Drop Property, for Kenar Resources.
Assessment Report 11,932.

Phendler, R.W., 1981.
Report on the Gold Drop Property for Kenar Resources Ltd. Feb 20, 1981.

| Sample Number | Approx UTM coordinates | Area | Sample Description |
|---|---|---|---|
| GD99-01 | 5447350 N 384175 E | Silent Friend | Old water filled shaft, about 15' deep on qtz vn trending 050/50-60E. Cat trench on same vn ~ 20 m SW on strike. Vein ~ 45 cm wide where exposed in shaft. Lots of qtz on dump. Barren looking white qtz + qtz with up to 5% sulfides - fine grained grey masses of py + tellurides, blebby chalcopyrite, fine streaky galena. Rusty weathered surfaces. Hosted in dirty grey qtzite. |
| GD99-02 | 5446860 N 383115 E | Gold Drop NW vein | Quartz vein in cat trench NW of lower Gold Drop adit and about due W of upper Gold Drop adit. Vein trends 320/65 NE, avg 0.5 m wide. Massive white quartz with tr sulfides. Grey, fine grained pods and streaks of py + tellurides. Rusty weathered surfaces. Hosted in rusty metaseds, near contact with syenite dyke. |
| GD99-03 | 5446930 N 383040 E | Gold Drop NW vein | North along strike, same vein as GD99-02. Old pit at top of hill, sloughed. Qtz on dump has a bit heavier sulfide content than to S. Up to 5% patchy grey py + tellurides?, tr cpy. |
| GD99-04 | 5446710 N 382995 E | Laura | 5x5 m outcrop of black fine grained metadiorite, cut by abundant hairline to 5 mm qtz vnlts, white-rosy quartz, xtalline. Random orientation, although larger vnlts may be dominantly subparallel. Up to 20/sq ft? Size and discontinuity of individual veinlets makes density of veining difficult to determine. |
| GD99-05 | 5446955 N 384140 E | Ken 4 vein | About 50 m on strike to NE from GD99-12. Adit trends 038 on vein trending 038/65E. Adit in v poor condition, perhaps was 20+ m long. Vn hosted in massive dirty qtzite. Vn is clear-white, re-brecciated quartz. Made up of ~3 mm qtz frags, close packed with no groundmass, but with rusty oxidized powder between bx frags. Tr fine black mineral as coating. No sulfides visible. |
| GD99-06 | 5447140 N 383775 E | Old Bird shaft | Old Bird shaft. Glassy & white xtalline/bx'd vn, sim to GD99-05, with tr py and with rusty oxid powder between bx frags of qtz. Rare patches of fine grey py. Vn trends 010/90, hosted in dirty qtzite. Shaft ~ 10 m deep with hand dug trench on N side, following trend of vn. |
| GD99-07 | 5447245 N 383330 E | North Star | Sample from surface in old trench N of ravine, past end of upper N Star workings, ~ 40 m S of Cairngorm pit. Vn trends 360/70 E. Start to see patches of massive galena with yellow py, to 2%. –07 is coarse granular/xtalline qtz vn, locally vuggy with drusy qtz to 1 cm long xtals. Rusty surfaces. Check for zonation – top level. |
| GD99-08 | 5447105 N 383285 E | North Star | Grab of qtz from trench on SW side of rd, near upper North Star workings. Massive and brecciated white to dirty qtz, rusty fracs. Minor py as fine grained massive patches. From NE trending vn. Check for zonation – mid level. |
| GD99-09 | 5446980 N 383490 E | Gold Drop, E of adits | Qtz vn float/subcrop in metaseds, on open rocky slope between lower North Star adit and road to upper North Star adit. Near contact with N-NW trending syenite dyke. Massive white qtz with minor py, up to 30 cm across. Looks like 2 vns, one small 10 cm vn in outcrop, trends 040/80 S. |
| GD99-10 | 5447020 N 383965 E | shaft by cabin, GD creek | Grab of quartz vein from dump of shaft by cabin on Gold Drop creek, E of Old Bird cabin. White crystalline quartz, minor rusty patches. Nil – trace sulfides. Can't see vein in place. |
| GD99-11 | 5446865 N 384100 E | Ken 4 vein | Big shaft on quartz vn, on Ken 4 claim, east of cookshack and SE of cabins on Gold Drop creek. Vein trends 045/65E, avg 30 cm wide where exposed. Very sheared. Major dump pile. Vein is hosted in fine grained, green massive chl rich |

| | | | |
|---|---|---|---|
| | | | metavolcanics. Fresh looking Tertiary diorite? dyke intrudes along sheared footwall of vein. |
| GD99-12 | 5446915 N<br>384140 E | Ken 4 vein | Approx 50 metres on strike from GD99-11, short adit on same vein. Sample of granular, crystalline quartz from dump, as in GD99-05. |
| GD99-13 | 5446775 N<br>383240 E | lower Gold Drop adit | vein at face, Aug 11/99, @ 120.5 m from portal. Qtz vein trends 055/50E, 30 cm wide, grey streaky py-tellurides in white qtz vn. |
| GD99-14 | 5446775 N<br>383240 E | lower Gold Drop adit | Same vn as –13. @ 113 m from portal. Vein ~ 60 cm wide. Footwall part of vn has > sulfides. |
| GD99-15 | 5446775 N<br>383240 E | lower Gold Drop adit | From face, Sept 13/99. At end of west drift on vein, where vein turns south. Shattered white quartz with tr sulfides. |
| GD99-16 | 5446775 N<br>383240 E | lower Gold Drop adit | Sample taken across vein, 1.5 m back from final face (125.5 m from portal). Shattered white quartz with 5% fine py, trace cpy, as narrow bands and veinlets. 15 cm wide. |
| GD99-17 | 5446775 N<br>383240 E | lower Gold Drop adit | Sample taken across vein, 3 m back from final face (124 m from portal). Shattered white quartz with 5% fine py, trace cpy, as narrow bands and veinlets. 15 cm wide. |
| GD99-18 | 5446775 N<br>383240 E | lower Gold Drop adit | Sample taken across vein, 4.5 m back from final face (122.5 m from portal). Shattered white quartz with 5% fine py, trace cpy, as narrow bands and veinlets. 25 cm wide. |
| GD99-19 | 5446775 N<br>383240 E | lower Gold Drop adit | Sample taken across vein, 6 m back from final face (121 m from portal), near GD99-13. Shattered white quartz with 5% fine py, trace cpy, as narrow bands and veinlets. 60 cm wide. |
| GD99-20 | 5446775 N<br>383240 E | lower Gold Drop adit | From final face, Nov 3/99 - 127 m from portal. Wall rock in face. Pyritic gougy chlorite altered metasediment. |
| GD99-21 | 5446930 N<br>383040 E | Trenching Gold Drop NW vein | Sample of vein from blast trench on Gold Drop vein, near GD99-3. Vein is very crushed, rusty fault zone, 20 cm wide, near vertical. |
| GD99-22 | 5446930 N<br>383040 E | Trenching Gold Drop NW vein | Sample of wall rock from blast trench on Gold Drop vein, near GD99-3. Black pyritic metasediment-siliceous argillite, with patchy quartz. |

PHONE(604)253-3158 FAX(604)253-1

# GEOCHEMICAL ANALYSIS CERTIFICATE

**McPherson Brown** File # 9903406

6233 London Road, Richmond BC V7E 3B3 Submitted by: Brown McPherson

| SAMPLE# | Mo ppm | Cu ppm | Pb ppm | Zn ppm | Ag ppm | Ni ppm | Co ppm | Mn ppm | Fe % | As ppm | U ppm | Au ppm | Th ppm | Sr ppm | Cd ppm | Sb ppm | Bi ppm | V ppm | Ca % | P % | La ppm | Cr ppm | Mg % | Ba ppm | Ti % | B ppm | Al % | Na % | K % | W ppm | Au* ppb |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GD99-01 | 11 | 4209 | 7429 | 252 | 40.2 | 17 | 3 | 65 | 2.09 | 12 | <8 | 7 | <2 | 3 | 68.1 | <3 | 21 | 3 | <.01 | .002 | 1 | 52 | <.01 | 15 | <.01 | <3 | .02 | .01 | .02 | 35 | 2070 |
| GD99-02 | 7 | 347 | 993 | 14 | 0.2 | 6 | <1 | 69 | .85 | 438 | <8 | <2 | 2 | 2 | 1.2 | <3 | <3 | 3 | .04 | .002 | 2 | 37 | .01 | 61 | <.01 | <3 | .06 | .01 | .04 | 19 | 980 |
| GD99-03 | 17 | 489 | 8361 | 19 | 39.3 | 12 | <1 | 66 | 1.37 | 51 | <8 | 5 | 3 | 5 | <.2 | 9 | 7 | 7 | <.01 | .007 | 1 | 51 | .01 | 148 | <.01 | <3 | .06 | <.01 | .05 | 20 | 4740 |
| GD99-04 | 1 | 134 | 52 | 24 | .4 | 18 | 10 | 274 | 2.14 | 4 | <8 | <2 | <2 | 5 | <.2 | <3 | <3 | 91 | .96 | .052 | 6 | 29 | .78 | 15 | .15 | <3 | .84 | .13 | .03 | 3 | 20 |
| GD99-05 | 8 | 17 | 26 | 19 | .3 | 20 | 2 | 1079 | 2.28 | 8 | <8 | <2 | <2 | 3 | 2.3 | <3 | <3 | 5 | .03 | .015 | 1 | 44 | .02 | 36 | <.01 | <3 | .06 | <.01 | .02 | 15 | 20 |
| GD99-06 | 4 | 21 | 10 | 38 | <.3 | 25 | 7 | 475 | 1.68 | 27 | <8 | <2 | <2 | 4 | .3 | <3 | <3 | 12 | .06 | .012 | 4 | 34 | .19 | 103 | <.01 | 3 | .39 | .01 | .10 | 11 | 25 |
| GD99-07 | 14 | 191 | 6645 | 7 | 64.8 | 12 | 1 | 64 | 1.52 | 5 | <8 | 18 | 2 | <1 | 2.0 | <3 | 3 | 3 | <.01 | .004 | <1 | 48 | <.01 | 10 | <.01 | <3 | .03 | <.01 | .01 | 18 | 14000 |
| GD99-08 | 25 | 18 | 870 | 18 | 9.9 | 6 | 1 | 141 | 1.40 | 10 | <8 | <2 | 2 | 3 | <.2 | <3 | <3 | 7 | .01 | .006 | 2 | 42 | .06 | 54 | <.01 | <3 | .15 | <.01 | .06 | 20 | 1400 |
| GD99-09 | 9 | 11 | 35 | 3 | .8 | 13 | 1 | 111 | 1.11 | 2 | <8 | <2 | <2 | 3 | <.2 | <3 | <3 | 5 | .02 | .003 | <1 | 52 | .04 | 18 | <.01 | <3 | .07 | <.01 | .02 | 18 | 130 |
| GD99-10 | 5 | 9 | 6 | 5 | <.3 | 5 | 1 | 330 | .85 | 5 | <8 | <2 | <2 | 8 | .4 | <3 | <3 | 3 | .46 | .001 | 3 | 37 | .06 | 13 | <.01 | <3 | .06 | <.01 | .01 | 20 | 20 |
| RE GD99-10 | 5 | 9 | 6 | 4 | <.3 | 5 | 1 | 330 | .85 | 5 | <8 | <2 | 2 | 9 | .4 | <3 | <3 | 3 | .46 | .001 | 3 | 39 | .06 | 12 | <.01 | <3 | .06 | <.01 | .01 | 21 | 10 |
| GD99-11 | 8 | 1382 | 4487 | 67 | 13.5 | 16 | 2 | 115 | 1.16 | 5 | <8 | <2 | <2 | 6 | 172.7 | <3 | 6 | 4 | .09 | .007 | 1 | 56 | .07 | 19 | <.01 | <3 | .11 | .01 | .03 | 15 | 1700 |
| GD99-12 | 5 | 36 | 65 | 23 | .4 | 28 | 15 | 732 | 3.03 | 10 | <8 | <2 | 2 | 6 | 1.6 | <3 | <3 | 15 | .03 | .015 | 2 | 41 | .28 | 48 | .01 | <3 | .35 | <.01 | .04 | 14 | 122 |
| GD99-13 | 42 | 480 | 3101 | 34 | 18.6 | 17 | 5 | 230 | 1.31 | 5 | <8 | 3 | <2 | 14 | 14.5 | <3 | <3 | 7 | .61 | .005 | 5 | 46 | .07 | 28 | <.01 | <3 | .17 | <.01 | .08 | 13 | 1500 |
| GD99-14 | 15 | 17 | 33 | 5 | 1.0 | 10 | 2 | 694 | 1.12 | 9 | <8 | <2 | <2 | 57 | .4 | <3 | <3 | 3 | 2.11 | .003 | 7 | 33 | .13 | 12 | <.01 | <3 | .13 | <.01 | .02 | 14 | 243 |
| STANDARD C3/AU-R | 29 | 65 | 38 | 174 | 5.9 | 39 | 11 | 802 | 3.43 | 58 | 27 | 2 | 21 | 32 | 26.4 | 15 | 24 | 82 | .59 | .100 | 22 | 179 | .61 | 160 | .09 | 17 | 1.95 | .06 | .18 | 13 | 492 |
| STANDARD C-2 | 2 | 3 | 5 | 45 | <.3 | 6 | 4 | 556 | 2.11 | 3 | <8 | <2 | 5 | 77 | <.2 | <3 | <3 | 43 | .68 | .111 | 12 | 86 | .60 | 236 | .13 | <3 | .98 | .08 | .51 | 4 | <1 |

GROUP 1D - 0.50 GM SAMPLE LEACHED WITH 3 ML 2-2-2 HCL-HNO3-H2O AT 95 DEG. C FOR ONE HOUR, DILUTED TO 10 ML, ANALYSED BY ICP-ES.
UPPER LIMITS - AG, AU, HG, W = 100 PPM; MO, CO, CD, SB, BI, TH, U & B = 2,000 PPM; CU, PB, ZN, NI, MN, AS, V, LA, CR = 10,000 PPM.
ASSAY RECOMMENDED FOR ROCK AND CORE SAMPLES IF CU PB ZN AS > 1%, AG > 30 PPM & AU > 1000 PPB
- SAMPLE TYPE: ROCK AU* GROUP 3A- 10.00 GM SAMPLE, AQUA-REGIA/MIBK EXTRACT, ANALYSIS BY GF/AA.
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: SEP 13 1999 DATE REPORT MAILED: Sept 20/99 SIGNED BY ..... D. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS



Data FA

ACME ANALYTICAL LABORATORIES LTD. 852 E. HASTINGS ST. VANCOUVER BC V6A 1R6 PHONE(604)253-3158 FAX(604)253-1716
(ISO 9002 Accredited Co.)

# ASSAY CERTIFICATE

McPherson Brown File # 9904903

6233 London Road, Richmond BC V7E 3B1 Submitted by: Brown McPherson

| SAMPLE# | Ag** oz/t | Au** oz/t |
|---|---|---|
| GD99-15 | .02 | .002 |
| GD99-16 | .28 | .040 |
| GD99-17 | 1.06 | .129 |
| GD99-18 | .11 | .010 |
| GD99-19 | .07 | .010 |
| GD99-20 | <.01 | <.001 |
| RE GD99-20 | <.01 | <.001 |
| GD99-21 | .01 | .001 |
| GD99-22 | .01 | <.001 |
| STANDARD R-1/AU-1 | 2.90 | .098 |

AG** & AU** BY FIRE ASSAY FROM 1 A.T. SAMPLE.
- SAMPLE TYPE: ROCK
Samples beginning 'RE' are Reruns and 'RRE' are Reject Reruns.

DATE RECEIVED: DEC 23 1999 DATE REPORT MAILED: Jan 7/2000 SIGNED BY: C. Toye

J. TOYE, C.LEONG, J. WANG; CERTIFIED B.C. ASSAYERS

383000
383500
384000
384500
N
215700
215698
215696
5447500
5447000
5446500
5446000
GOLDEN EAGLE
L 1164
(214224)
CAIRNGORM
L 2853
NORTH STAR
L 1165
GOLD DROP FR.
L 2425 s
(214208)
GOLD DROP
L 1415
(214209)
OLD BIRD
L 1324
(214227)
SILENT FRIEND
L 1433
(214228)
KEN 4
215699
KEN 2
215697
215701
215877
UPPER NORTH STAR ADIT
LOWER NORTH STAR ADIT
UPPER GOLD DROP ADIT
LOWER GOLD DROP ADIT
Samples 6099-13 → 20
1999 BLAST PIT
0.181 oz/t Au
stope from Upper GD Adit
old drill core
GOLD DROP EXTENSION
L 3293 s
(214207)
Ag Soil Anomaly
(From AR 11,932)
logged area
no o/c
mineralized qtz boulders reported float?
open rocky ridge, minor qtz veins
0.214 oz/t Au
0.155 oz/t Au
1.52 oz/t Au
0.548 oz/t Au
Gold Drop Creek
boundary of logging

## LEGEND

TERTIARY

5 grey hornblende-feldspar porphyry ± diorite (?)

4 pink biotite-feldspar porphyritic syenite

CRETACEOUS OR JURASSIC

3 quartz-feldspar porphyry

2 granodiorite - may be mod-strongly foliated (possibly in part unit 1)

2a diorite - massive, fine grained, dark green

CARBONIFEROUS OR PERMIAN
Knob Hill Group Metamorphic Rocks

1a phyllite

1b quartzite

1c greenstone

1d undifferentiated metasediments (± lesser metavolcanics)

claim boundary

road; main, secondary

creek

geological contact

area of outcrop

6099-7 rock sample location

vein

strike/dip of vein

adit

trench

shaft or pit

building

# GOLD DROP PROPERTY

Greenwood M.D., NTS 82E/2E

1999 PROSPECTOR ASSISTANCE PROGRAM

Surface Prospecting and Sample Location Map

SCALE
0 250 m
1:2,500

99-19 (1)

LJC. DEC/99