

**TARGET EVALUATION REPORT**

**93-102**

**BLACK HILLS CREEK, PLACER LEASE 9119  
MAP NO. 1150-7 PL, DAWSON MINING DISTRICT  
YUKON TERRITORY  
LATITUDE 63 DEGREES AND TWENTY MINUTES NORTH  
LONGITUDE 138 DEGREES AND 45 MINUTES WEST**

**DRILLING AND SHAFING  
AUG. 9 - SEPT. 20, 1993**

**BY JAY BROWN**

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## **SUMMARY REPORT**

### **INTRODUCTION**

### **PLAN**

To evaluate the Gold mining potential of Placer Lease No. PL 9119 by means of auger drilling and shaft sinking.

### **LOCATION**

Latitude 63 Degrees and twenty minutes North  
Longitude 138 Degrees and 45 minutes West

The property consists of 5 miles of placer lease on Black Hills Creek, commencing 4 miles upstream from the confluence of the creek and the Stewart River and ending 5 miles upstream at the existing placer claims.

### **ACCESS**

The property can be serviced by air from Dawson City, but is best serviced by ninety-five miles of secondary gravel road from Dawson City, via Hunker Creek to the head waters of Black Hills Creek and then by tote road downstream to the property.

### **PROPERTY**

The property consists of placer Lease 9119 which is five miles long, 2000 feet wide. The property was staked on February 1, 1993 and is owned by the writer.

### **PROPERTY HISTORY**

Gold was discovered on Black Hills Creek in 1898 and was sporadically hand mined by prospectors until 1935. Yukon Consolidated Gold Corporation acquired the property in 1936 and drilled 327 holes to prove up estimated reserves of 1,200,000 Cu yards of gold bearing gravels over a two mile section. This area was approximately five miles upstream from Pl 9119. YCGC abandoned the property in 1955 and between 1957 and 1982, Territorial Gold conducted mining operations upstream.

In 1979, W.A. Peters acquired the lower 9 miles of leases on Black Hills Creek, which includes what is now pl 9119. During 1981 the Peter's group spent \$900,000 on the property and drilled 4,000 feet of 6 inch diameter Becker drill holes.

They report that out of 120 holes drilled, 85 % had gold values. They also report that after examining the property, the Royal Bank Of Canada advanced \$500,000 of the approximately 1 Million spent. The bulk of the drilling was conducted on a two mile stretch of the creek that they defined as Zone "A" in their reports, as having reserves of 1,500,000 cubic yards at \$12.00 per yard with gold at \$450.00 per ounce Canadian.

Mining proposed for 1982 never materialized and none has been done since.

### **TOPOGRAPHY**

The property is five miles long on the Black Hills Creek base line and 1,000 feet on either side of the broad river valley. The bottom is generally wider (some hundreds of feet) than most Klondike gold creeks, and is covered with gold bearing gravel, 0-15 feet thick of frozen silt ( "black muck" ), moss and sparse spruce and poplar in a vertical section from bedrock upwards. The black muck tends to be thicker on the right limit bench -10-60 feet in depth, averaging approximately 20 feet for mining purposes. The left bank tends to be steeper than the right bank, which has a gently sloping bench 1,000- 1500 feet wide. Sufficient creek water exists for conventional mining for the normal May-October mining season at any practical production volumes. The banks are more heavily forested than the bottom.

Relief is from 2000 feet at the creek level to 3,500 feet maximum on the adjacent ridges and the round hills caused the prospectors to name the "Black Hills "because of their resemblance to the South Dakota mining district.

### **GEOLOGY**

Black Hills Creek follows through an unglaciated area of Pre-Cambrian gneisses, schists, slates and shales. The true source of the Black Hills placer gold is not yet known, but is believed to be from staged gold concentration of auriferous quartz veins. The gold veins were eroded, the area uplifted, the gold concentrated in overlying gravels which were apparently reconcentrated by erosion and gravity to the creek benches and stream bottom. Rock outcrops are rare and confined to the ridges or to bedrock exposed by mining.

The bedrock creek bottom is apparently covered by 5 - 130 feet of gold bearing gravel, overlain by 2 - 15 feet of frozen black muck. The benches tend to be covered with increasing depths of both gravel and frozen muck overburden as the bench gains altitude away from the creek.

## EXPLORATION PROGRAM

### PURPOSE

1. To determine the overburden type and depth.
2. To determine gravel type and depth.
3. To determine bedrock depth.
4. To determine the presence of gold.
5. To compare drill hole results with shaft results.

### CONTRACTOR EQUIPMENT USED

Track mounted six inch auger drill  
Sample buckets  
Long tom and pump  
Concentrate bags  
DBH Cat  
4X4 truck  
Shaft sinking by contractor with equipment

### METHOD

When field work was planned, the drill results of the previous Black Hills Creek project were not available. Three crosssections were planned, the first at the centre of the lease, one two miles upstream and one 2 miles downstream.

Line 'A' encountered water problems and a new traverse "B" was made 1,000 feet downstream, with section "C" downstream and section "D" upstream.

Three shafts were planned for section "A" but were located on Section "B", each 100 feet apart. The entire program was either done or supervised by myself.

Crosssection "A" - 3 drill holes  
                  "B" - 6 drill holes 3 Shafts  
                  "C" - 3 drill holes  
                  "D" - 9 drill holes

All drill holes were vertical. 20 litre sample pails were used to collect the drill samples ( approximately 40 - 20 litre pails to the cubic yard ).

Shafts were sunk to bedrock, bulk samples of the gravels were saved and sluiced in a longtom. Drill holes were drilled to bedrock with samples taken every 4 feet in gravel. Samples were bulked for each hole and then sluiced in a longtom. Concentrate from each shaft and drill hole was hand panned and colours counted or weighed.

Total footage drilled was 449 feet and total shaft footage was 66 feet.

Field work started August 9, 1993 and was completed September 20, 1993. The location of the four traverses, the 21 drill holes and 3 shafts are shown on the property map attached. Each traverse and each drill hole is flagged and numbered on the ground.

#### **RESULTS**

The results of the testing are shown on the attached drill hole and shaft log sheets.

#### **CONCLUSIONS**

The drill results from traverses "C" and "D" are exceptionally good and warrant further drilling. Auger drill results compare favourably with shaft results.

#### **RECOMMENDATIONS**

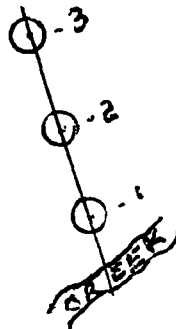
A further drilling program should be conducted downstream from traverse "D" and both up and downstream from traverse "C", to prove the continuity of gold and establish reserves. This drilling should include the benches. Reconnaissance drilling should be conducted above and below traverse "B" in the creek bed and of selected benches.

This report is respectfully submitted by:

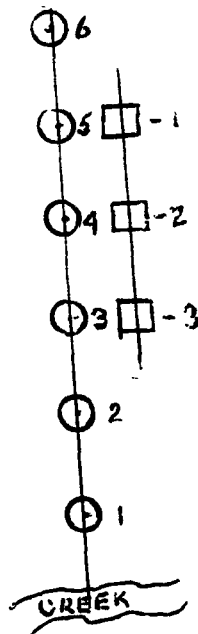
**JAY BROWN**

**CROSS-SECTIONS A, B, C, & D AS SHOWN ON PROPERTY MAP**  
 Showing Drill Hole Number and Location and Shaft Numbers  
 and Location.

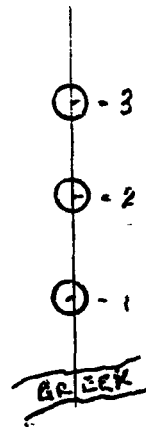
C  
TOTE ROAD



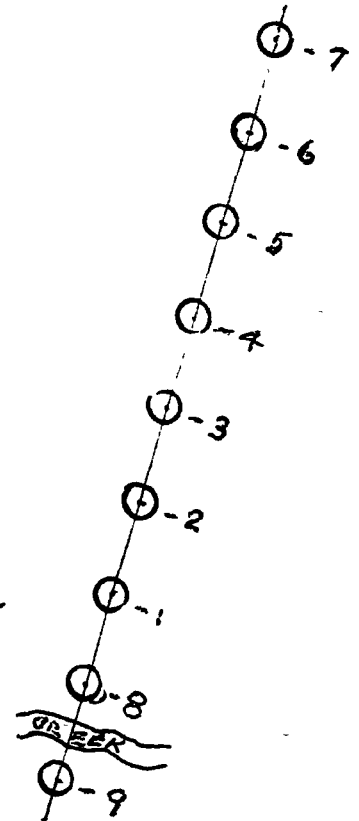
B  
TOTE ROAD



A  
TOTE ROAD



D  
TOTE ROAD



SCALE: 1" - 200 feet

LEGEND

- - Drillhole
- - Shaft
- ~ - Creek
- ||| - Tote Road
- ↑ - True North

PLACER DRILL LOG

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Driller: \_\_\_\_\_ Helper: \_\_\_\_\_

Type of Drill: Auger Inside Diameter of Drill: 6"

Location: BlackHills Creek Lease or Grant Numbers: PL 9119

DRILL HOLE NUMBER	TOTAL FOOTAGE	BREAKDOWN IN FEET (of materials encountered)	REMARKS: samples/results
A1	20 feet	12 feet black muck 8 feet gravel	no sample water oc
A2	22 feet	13 feet black muck 9 feet gravel	no sample water oc
A3	25 feet	14 feet black muck 11 feet gravel	no sample water oc
B1	20 feet	5 feet black muck 15 feet gravel	0.10 cu.yd. 4 pails 1 c
B2	20 feet	5 feet black muck 15 feet gravel	0.10 cu.yd. 4 pails 4 c
B3	20 feet	5 feet black muck 15 feet gravel	0.10 cu.yd. 4 pails 9 c 1/8 grain
B4	21 feet	8 feet black muck 13 feet gravel	0.075 cu.yd. 3 pails 7 c
B5	19 feet	13 feet black muck 6 feet gravel	0.03125 cu.yd 1 1/4 pails 3 c
B6	21 feet	12 feet black muck 2 feet sand 7 feet gravel	0.025 cu.yd. 1 pail oc
C1	21 feet	8 feet black muck 13 feet gravel	0.10 cu.yd. did not drill to bedrock 4 pails 15 c 1/2 grain
C2	20 feet	13 feet black muck 7 feet gravel	0.10 cu.yd. 4 pails 10 c 1/8 grain
C3	32 feet	10 feet black muck 22 feet gravel	0.175 cu.yd. 7 pails 8 c 1/8 grain

Signed (Driller or Representative)



**PLACER DRILL LOG**

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Driller: \_\_\_\_\_ Helper: \_\_\_\_\_

Type of Drill: Auger Inside Diameter of Drill: 6 "

Location: Black Hills Creek Lease or Grant Numbers: PL 9119

DRILL HOLE NUMBER	TOTAL FOOTAGE	BREAKDOWN IN FEET (of materials encountered)	REMARKS: samples/results
D1	20 feet	5 feet black muck 15 feet gravel 0.13 cu.yd.	5 1/2 pails 5 c
D2	22 feet	5 feet black muck 17 feet gravel 0.125 cu.yd.	5 pails 1 c
D3	20 feet	8 feet black muck 12 feet gravel 0.10 cu.yd.	4 pails 11 c 1/8 grain
D4	20 feet	11 feet black muck 9 feet gravel 0.075 cu.yd.	3 pails 15 c 3/4 grain
D5	20 feet	12 feet black muck 8 feet gravel 0.05 cu.yd.	2 pails 4 c
D6	20 feet	13 feet black muck 7 feet gravel 0.0375 cu.yd.	1 1/2 pails 3 c 1/8 grain
D7	28 feet	18 feet black muck 10 feet gravel 0.0375 cu.yd.	1 1/2 pails 3 c
D8	19 feet	7 feet black muck 12 feet gravel 0.0875 cu.yd.	3 1/2 pails 19 c 1/4 grain
D9	19 feet	7 feet black muck 12 feet gravel 0.0875 cu.yd.	3 1/2 pails 3 c

PLACER SHAFT LOG

Date: \_\_\_\_\_ Time: \_\_\_\_\_ Driller: \_\_\_\_\_ Helper: \_\_\_\_\_

Type of Drill: \_\_\_\_\_ Inside Diameter of Drill: \_\_\_\_\_

Location: Black Hills Creek Lease or Grant Numbers: PL 9119

DRILL HOLE NUMBER	TOTAL FOOTAGE	BREAKDOWN IN FEET (of materials encountered)	REMARKS: samples/results
SHAFT		Black muck gravel bedrock gold / yd.	
B1	22 feet	14 feet black muck 8 ft. gravel bedrock 22 feet	1.1 grain 88c 1/2 cu. yd.
B2	22 feet	11 feet black muck 10ft gravel bedrock 22 feet	1/2 grain 7 c 1/4 cu. yd.
E3	22 feet	6 feet black muck 16 ft gravel bedrock 22 feet	- 1/2 grain 19 c 1/4 cu. yd.

Date: \_\_\_\_\_ Signed (Driller or Representative)

McGinty P30117  
McGinty P30116  
McGinty P30115  
B.L. P39328  
Caroline P39328  
FLAMA P39328  
P39328

Creek

1/2 MILE

P. 9119

2500

2500

2500

1500

2000

R-18

PL9120  
2 MILE

3000

R-18

1500

STEWART

R-18

R-18

