

# Yukon Placer Database Operations Report



**Field Name: Johnson/Maverick Gold Mines, 1997-2000**

**Last Update: 21-Mar-2005**

**Status: Recent Producer 1978-present**

**Stream: Dominion: a tributary of Indian**

**Map Sheet(s): 1150/10, 1150/15**

**Page 1 of 3**

## Operators

Name	From (Date)	To (Date)	Comment
Maverick Gold Mines Inc.	1997/01/01	2000/12/31	

## Owners

Name	From (Date)	To (Date)	Comment
Vicki Johnson	1997/01/01	2003/12/31	
Maverick Gold Mines Inc.	1997/01/01	2000/12/31	
Miles Johnson	1997/01/01	2003/12/31	

## General Location

This operation was located on Dominion Creek at its confluence with Arkansas Creek.

## Location Details

Date:	Latitude			Longitude			Elevation (feet)	Distance from Mouth (feet)
	Deg	Min	Sec	Deg	Min	Sec		
2003/01/01	63	44	44	138	30	56		
2000/01/01	63	45	0	138	32	0		
1998/01/02	63	44	50	138	31	22		
1998/01/01	63	45	0	138	32	0		
1997/01/01	63	45	0	138	32	0		

## Water Licence(s)

Number	Comments
PM97-061	Expires: 2007/05/01
PM96-061	

## Work History

In 1997, one cut was mined to a total area between 230,000 and 270,000 square feet. A crew of five miners and two camp personnel worked 10 hours per day at the site in 1998. Five cuts of varying sizes were mined in 1999. The majority of the work required to decommission this site was accomplished at the end of the 1999 mining season. The remainder of the work was completed in 2000 for final decommissioning. In 2003, A-1 Cats began mining under a water use license in the name of 365334 Alberta Ltd.

## Production

Year	Stripped	Sluiced
1997	Unknown	250000 square feet

## Equipment

In 1997, this site was mined using a D9L Caterpillar bulldozer, a 980C Caterpillar loader, a 42-inch by 100-foot conveyor and a 42-inch dozer trap with a 42 inch by 50-foot conveyor. The wash plant used was a double deck horizontal screen wash pan with a straight run sluice to a 4-foot by 20 foot oscillating sluice. The upper deck screened to 1 1/2 inch minus, The lower deck was equipped with 1/2 inch by 1 inch cross slot. A 10 by 12 inch GM pump powered by a Cat 671 engine provided 1200 igpm of water to wash from 75 to 140 loose yards of material per hour. Water was obtained from either Dominion or Arkansas Creek. When there was a discharge from this site

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**Page 2 of 3**

it was to Dominion Creek. Approximately 50% of the water used at the site was recycled. The settling pond area was 200 by 150 feet.

For the 1998 season, the same equipment was used as in the previous year. The wash plant consisted of a 6 by 16 foot screen deck which fed to four 4 by 20 oscillating trays. The required 3000 igpm of water needed to process 80 to 120 loose yards of pay per hour was supplied by a 12 by 14 inch General Motors Corporation pump powered by a 6-71 engine. Final cleanup was accomplished using tables. Water was acquired from Dominion Creek with a two pond, out-of-stream recirculation settling system used to recycle approximately 70 percent of the water.

### **Environmental Work**

<b>Year</b>	<b>Reclamation Work</b>
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2000	All reclamation work required for closure was completed.
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1997	Reclamation of the site was addressed as mining progressed.
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### **Landforms**

<b>Landform</b>	<b>Comments</b>
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Alluvial Valley	
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### **Surficial Geology**

The area of the Dominion Creek Valley is quite wide, approximately 1200 feet and flat at this location with steep sloped sides on the west (right) limit and a shallower slope of the east (left) limit. The black mud layer in this area ranged from 0 to 20 feet deep. Fine waste gravels including sand and silt layers were from 5 to 25 feet deep. The sluice section was from 3 to 8 feet deep. The waste section was from 15 to 28 feet deep. The elevation to watercourse was 10 to 20 feet. In 1998, the ground was approximately 28 feet deep to bedrock, comprised of 6 to 15 feet of black muck over 10 to 15 feet of sand and Dominion gravel on top of 3 to 5 feet of mixed White Channel and Dominion gravel. The sluice section was 2 to 4 feet of gravel and 2 to 4 feet of bedrock. Lowey found the gravel to be 2 meters thick, resting on biotite-muscovite schist with garnet porphyroblasts, and is overlain by 2 meters of overbank fines and muck.

### **Bedrock Geology**

The rocks on Dominion Creek present more variety than on other creeks in the Klondike region. The upper part of the valley is cut through the greyish sericitic schists of the Klondike series, alternating with bands of chloritic schists. The latter is fairly massive in places and is often filled with grains of pyrite and magnetite. In the central part of the creek there are Klondike schists and hard quartzose schists. Bands of dark graphitic schists are present, and limestone were found in the right bank opposite claim no. 136, below discovery, also in the dump on claim no. 123 below Discovery. These rocks resemble the schists on Indian River and are probably largely of clastic origin, and older than the Klondike schists. They are replaced about midway between Gold Run and Sulphur Creeks by the area of greyish granite which continues down to the mouth and down the Indian River for a short distance.

### **Gold Comments**

Placer gold recovered from the gravel has a fineness ranging from 817 to 849. Gold recovered from the site had a fineness of 830 to 850 and was described as flat and fine grained.

### **References**

Lowey, G.W. 2004. Placer Geology of the Stewart River (115N&O) and part of Dawson (116B&C) map areas, west-central Yukon, Canada. Yukon Geological Survey, 275p.: p. 40

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1995, 1996, 1997. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 1998.: p. 91-92

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p. 114-115

Nowosad, M. Placer Mining Year End Summary, 2003. Client Services and Inspections Division, Yukon Energy Mines and Resources, 2004.: p. 63

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**Page 3 of 3**

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### **References**

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 55

### **Pictures**

**Title:** Johnson Operation, Dominion Creek

#### **Notes:**

Miles and Vicki Johnson's plant processing material on Dominion Creek near Arkansas Cree in 1998.

