

# Yukon Placer Database Operations Report



**Field Name:** Farley's Machine Inc., 1998-2003

**Last Update:** 17-Feb-2005

**Status:** Active Producer

**Stream:** Hunker: a tributary of Klondike

**Map Sheet(s):** 116B/3

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## Operators

Name	From (Date)	To (Date)	Comment
Owen McKinney	2003/01/01	2003/12/31	
Dave Farley	1998/01/01	2001/12/31	

## Owners

Name	From (Date)	To (Date)	Comment
Owen McKinney	2003/01/01	2003/12/31	
Dave Farley	1998/01/01	2001/12/31	
Farley's Machine Inc.	1998/01/01	2003/12/31	

## General Location

This operation was located at the mouth of Hunker Creek immediately next to the Klondike Highway.

## Location Details

Date:	Latitude			Longitude			Elevation (feet)	Distance from Mouth (feet)
	Deg	Min	Sec	Deg	Min	Sec		
2003/01/01	64	1	38	139	10	7		
2003/01/01	64	2	0	139	7	0		
1998/01/01	64	2	0	139	7	0		

## Water Licence(s)

Number	Comments
PM97-077	

## Work History

Four miners and one camp person ran two 12 hour shifts in 1998 clearing trees and brush before beginning the stripping work. A crew of five miners ran a single shift in 1999 stripping and sluicing. The operation was scaled down to a single shift of two miners in 2000 to do the sluicing. Mechanical work was done throughout most of 2001 with one pit partially excavated in the fall. A single cut measuring 60 by 900 feet was excavated in 1998 and 1999. Approximately 72000 cubic yards were stripped in and 16000 cubic yards were sluiced. A single cut 90 by 300 feet was excavated during 2000. Approximately 20000 cubic yards were stripped and 8000 cubic yards were sluiced. A single cut was excavated immediately next to the Klondike Highway in 2001 and 2002 but no sluicing occurred to date. During the 2003 season, a cut was stripped and pay gravels were stocked.

## Production

Year	Stripped	Sluiced
2001	Unknown	0 cubic yards
2000	20000 cubic yards	8000 cubic yards
1999	36000 cubic yards	8000 cubic yards
1998	36000 cubic yards	8000 cubic yards

## Equipment

A Caterpillar 235 excavator and an EL-300 excavator were used along with a Caterpillar D-8K bulldozer for clearing and stripping in 1998. A Komatsu 355 bulldozer, a 769 dump truck and an O&K RH-75 excavator with a

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13-yard bucket were added for stripping and sluicing in 1999 through 2001. A 300 Maximizer wash plant was used. The pay gravels were dumped into a hopper, which fed the sluice plant, by conveyor. The gravels were washed and classified to 1 inch minus by four decks 8 feet wide by 4 feet long. The oversize gravels were carried off and stacked by conveyor. The 1-inch minus material was sluiced in two 66-inch wide by 20-foot long sluice runs. Both sluice runs used hydraulic riffles, expanded metal and Nomad matting. A 10-inch by 12 inch Cornell pump supplied the 3000 igpm needed to process approximately 200 cubic yards per hour. Jig wheels and tables were used for the clean ups. Due to the high water table in this location constant de-watering was required for the mine pit. The water was pumped by pipeline over Hunker Creek to two out of stream settling ponds. Clean water then returned to the pit by gravity through another pipeline over Hunker Creek. A recirculation system was used during sluicing with the effluent going into the mine pit prior to being pumped to the settling ponds. The only direct discharge that occurred was clean seepage water that was pumped directly to Hunker Creek when not sluicing. Power from Dawson City was brought in during 2000 allowing the cut to be de-watered with lower cost electric pumps. In 2003, a new wash plant was set up and seepage water was pumped into Hunker Creek most of the summer.

**Landforms**

<b>Landform</b>	<b>Comments</b>
Alluvial Valley	

**Surficial Geology**

The ground varied in depth but an average of 20 feet of silt overburden and 20 feet of gravel was encountered during stripping in 1999. The top 14 feet of gravel was wasted and the lower 5 feet of gravel and 3 feet of bedrock was sluiced. The bottom 15 feet of the profile was found to be frozen in areas, and the water table was near the surface which required continuous dewatering.

**Bedrock Geology**

The rocks along the upper part of Hunker Creek consist of the light coloured sericite schists, and the greenish chloritic schists of the Klondike series, cut by a few small bosses of rhyolite. From Colorado Creek to the mouth the same rocks also occur, but are associated with wide bands of the lead coloured and dark graphitic schists of the Hunker series, some green schists and occasional bands of limestone.

**Gold Comments**

The gold recovered in 1999 and 2000 was reported to be 80 to 90 percent -10 mesh with the remainder +10 mesh. It was typically flat, rough and dull with a fineness of 780.

**References**

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p. 61

Nowosad, M. Placer Mining Year End Summary, 2003. Client Services and Inspections Division, Yukon Energy Mines and Resources, 2004.: p. 38

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 30

**Pictures**

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**Title:** Farley's Machine Inc, 2000, Hunker Creek

**Notes:**

