

Yukon Placer Database Operations Report



Field Name: Johnson Exploration, 1994-2003

Last Update: 23-Feb-2005

Status: Active Producer

Stream: Nansen: a tributary of Nisling

Map Sheet(s): 115I/3

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Operators

Name	From (Date)	To (Date)	Comment
Lorne Johnson	1994/01/01	2003/12/31	
Brian Johnson	1994/01/01	2003/12/31	

Owners

Name	From (Date)	To (Date)	Comment
Johnson Exploration	1998/01/01	2003/12/31	After 1998, Brian and Lorne Johnso
Lorne Johnson	1994/01/01	2003/12/31	
Brian Johnson	1994/01/01	2003/12/31	

General Location

The property was located on the left limit of Nansen Creek, previously mined by BYG Resources Ltd. By 2001, they were working their way upstream from the mouth of Dolly Creek to the mouth of Discovery Creek.

Location Details

Date:	Latitude Deg : Min : Sec	Longitude Deg : Min : Sec	Elevation (feet)	Distance from Mouth (feet)
2003/01/01	62 2 44	137 13 27		
2003/01/01	62 4 0	137 13 0		
1998/01/01	62 4 0	137 13 0		
1995/01/01	62 4 0	137 14 0		
1993/06/06	62 4 12	137 13 48	3,500	

Water Licence(s)

Number	Comments
LP00153	
PM99-146	
PM96-073	Expires: April 30, 2005
PM93-070	

Claims

File Date	Number	Name	Status
	P12706		
	P12705		
	P12704		
	P12700		
	P18699		
	P12710		
	P12707		

Work History

1994- Brian and Lorne Johnson took over BYG Natural Resources Ltd. operation on the left limit of Nansen

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Creek in August 1994. Five miners worked a single shift for the remainder of the season. A cut 200 feet wide by 500 feet long was started. The operators estimated that 50% of the cut would be completed by the end of the season.

1995-1997- No information about mining cuts or material stripped was provided although sluicing continued.

1998-2000- Two cuts were mined each season, averaging 450 feet long by 180 feet wide.

2001 - Two cuts were mined, the first being 235 feet long by 300 feet wide. The second was in a pie-shape configuration measuring 900 feet long by 0 to 100 feet wide.

2003 - Brian Johnson continued his operation and reclamation this season.

Equipment

In 1994, a D9H Caterpillar bulldozer was used for stripping and pushing up pay. A 980C Caterpillar loader and a 966 loader were used to stockpile pay at the sluice box and remove tailings. A 225 Caterpillar excavator with a one cubic yard bucket fed the pay into the box. Pay material was fed at a rate of 100 loose cubic yards per hour into a 6 foot by 10-foot hopper. The pay continued into a trommel 7 feet in diameter by 40 feet long, lined with large angle iron scrubbers. The classified pay entered four sluice runs three feet wide lined with Nomad carpet and two inch expanded metal. Two runs were 24 feet long and two were 26 feet long. Water was acquired from Nansen Creek at a rate of 900 igpm using a 10 by 12 inch Cornel pump powered by a 3208 Caterpillar engine. The effluent was treated in a large out-of-stream settling pond before discharging by way of a long drain into Nansen Creek. A clean up was conducted every 30 hours.

Through 1995-1997, the same equipment was used as previous years. Material was fed to the sluice box at a rate of approximately 100 loose cubic yards per hour. Pay entered a 6-foot by 10-foot hopper then continued into a 7 foot by 40-foot trommel lined with large angle iron scrubbers. The classified material entered four sluice runs three feet wide. Water was acquired from Nansen Creek at a rate of up to 900 igpm using a 10 by 12 inch Cornell pump powered by a 3208 Caterpillar engine. The effluent was treated in large out of stream settling ponds before being discharged by way of a long drain into Nansen Creek.

1998-2001 - The same equipment was used as in previous years. In the 2000 mining season, an additional 988B Caterpillar loader was added. A 16-foot belt feeder fed pay material to a 40-foot long by 7-foot diameter trommel. Classified pay material was discharged onto three 26-foot by 10-foot live bottom sluice runs. The sluice runs were lined with 16 feet of 2.5 inch expanded metal. Water was fed to the sluice palnt by a 4-inch Cummins pump delievering 800 igpm. Water was supplied from Nansen Creek and effluent was settled through seepage into the ground as well as in a series of seven settling ponds.

Environmental Work

Year	Reclamation Work
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2003	Extensive reclamation work was completed. All tailing piles were properly sloped and contoured and strippings on the left limit of the valley were sloped.
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2001	Reclamation was progressive throughout the mining seasons.
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Landforms

Landform	Comments
Alluvial Valley	

Surficial Geology

Total depth unknown, but average depth to bottom of pay zone was 30 feet. 10 feet of overburden was stripped off and 20 feet of homogenous pay gravels were sluiced. The ground was mostly frozen.

1998-2001 - The stratigraphic section in the area of the oepration was consistent throughout the mining seasons. The 4-foot pay section was overlain by 12 feet of sand and gravel then 2 feet of organics. In the 2001 mining season, the operator attempted to hydraulically strip some sandy overburden with the use of a monitor. The pay section was made up of 70% sand and rock and 30% clay.

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Bedrock Geology

The rocks exposed in the Nansen district are dominantly igneous and metamorphic, and range from probably Pre-Cambrian to Tertiary in age.

Gold Comments

1993/1994- Ninety percent of the gold was 40 mesh or finer. Fineness was 800.

1995-1997- Most of the gold was in the 40 mesh range. Fineness was 800.

1998-2001- Most of the gold was in the 40 mesh range with a few nuggets, some containing quartz. Fineness was 800.

References

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1995, 1996, 1997. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 1998.: p. 152-154

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p.182

Nowosad, M. Placer Mining Year End Summary, 2003. Client Services and Inspections Division, Yukon Energy Mines and Resources, 2004.: p. 17-19

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 20
van Kalsbeek L.P. Yukon Placer Mining Industry 1993-1994. Whitehorse: DIAND, 1996.: p. 125

Pictures

Title: Johnson Exploration, Nansen Creek

Notes:

At the mouth of Discovery Creek.

