

Yukon Placer Database Operations Report



Field Name: Liske & Barchen, 1980-1982, 1987-2001

Last Update: 11-Jan-2005

Status: Recent Producer 1978-present

Stream: Ledge: a tributary of Mayo Lake

Map Sheet(s): 105M/10

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Operators

Name	From (Date)	To (Date)	Comment
Ralph Barchen	1999/01/01	2001/12/31	
Bert Liske	1995/01/01	1995/12/31	
Mr. and Mrs. Moritz	1991/01/01	1991/12/31	
Ralph Barchen	1991/01/01	1998/12/31	
Bert Liske	1987/01/01	1992/12/31	
Meyer Properties Inc.	1982/01/01	1982/12/31	
Eagles Nest	1981/01/01	1981/12/31	
Bert Liske	1980/01/01	1980/12/31	

Owners

Name	From (Date)	To (Date)	Comment
Ralph Barchen	1999/01/01	2001/12/31	
Bert Liske	1996/01/01	1998/12/31	
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Mr. and Mrs. Moritz	1991/01/01	1991/12/31	
Ralph Barchen	1991/01/01	1998/12/31	
Bert Liske	1987/01/01	1992/12/31	
Meyer Properties Inc.	1982/01/01	1982/12/31	
Eagles Nest	1981/01/01	1981/12/31	
Bert Liske	1980/01/01	1980/12/31	

General Location

In 1987, the property was located on Ledge Creek approximately 3/4 of a mile above Mayo Lake, at the apex of the Ledge Creek delta. In 1994, Ralph Barchen mined a left limit bench and old channel deposits at the upper end of the Ledge Creek delta, located on Mayo Lake, on Bert Liske's property.

Location Details

Date:	Latitude			Longitude			Elevation	Distance from Mouth
	Deg	Min	Sec	Deg	Min	Sec	(feet)	(feet)
2003/01/01	63	40	41	134	49	53		
1998/01/01	63	42	0	134	47	0		
1995/01/02	63	40	37	134	50	40	24,500	
1995/01/01	63	42	0	134	47	0		
1992/01/01	63	41	8	134	51	0	2,500	
1991/01/01	63	40	0	134	51	0		
1987/01/01	63	40	0	134	52	0		
1980/01/01	63	41	0	134	51	0		

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Water Licence(s)

Number	Comments
PM94-069	1995-98
PM98-046	Expiry Date 11/1/01, Class Number IV, Effluent Standard 2.5 ml/L, Status A
PM94-017	
PM88-106	1987-1990

Claims

File Date	Number	Name	Status
	3934		

Work History

1980- Mr. Liske worked on the property during the season and may have worked there in 1979.
1981- Eagles Nest, a consortium, mined the property.
1982- Meyer Properties Inc. did a limited amount of test work on the site.
1987- Mr. Liske worked alone on the property, but no production figures were given.
1989-1990- Two miners worked part time, sluicing a total of 5000 cubic yards.
1991-3600 cubic yards were taken from a cut at the upper end of the property
1992- Mr. Liske was assisted by Mr. Ralph Barchen. 55,000 cubic yards were sluiced from the area.
1993- Ralph Barchen helped mine old channel deposits at the upper end of the Ledge Creek delta. 60,000 cubic yards were sluiced and 3000 cubic yards stripped.
1994- 60,000 cubic yards were sluiced and 30,000 cubic yards stripped.
1995- Both Barchen and Liske worked on the property.
1995-97 Approximately 80000 to 110000 cubic yards were sluiced in each of the three years and 10000 to 20000 cubic yards were stripped.

Production

Year	Stripped	Sluiced
1997	15000 cubic yards	95000 cubic yards
1996	15000 cubic yards	95000 cubic yards
1995	15000 cubic yards	95000 cubic yards
1994	30000 cubic yards	60000 cubic yards
1993	3000 cubic yards	60000 cubic yards
1992	7000 cubic yards (of tailings)	55000 cubic yards
1991	Unknown	3600 cubic yards
1989	Unknown	5000 cubic yards

Total Gold Reported -526 oz.

Equipment

In 1987, an HD5 Allis Fiat bulldozer was used to feed the wash plant and remove tailings. The sluice box consisted of 2 runs lined with punch plate (1/2 inch diameter holes). Material was processed at a rate of 2.5 cubic yards per hour by filling the 12 cubic yard dump box and monitoring the material through the box. A small jig was used for clean-ups. It was anticipated that 600 to 800 cubic yards would be processed in the 1087-testing program. Water was supplied at a rate of 750 igpm from the settling pond by a 4-inch pump, powered by a Wisconsin 4 cylinder gas engine. The effluent was recycled to the settling pond, which measured 400 by 150 yards. This pond was also used by Mr. Moritz and had essentially no effluent discharge.
In 1989, a Fiat Allis HD5 dozer was used to feed the wash plant and remove tailings. The sluice box consisted of 2

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runs lined with a punch plate. Material was processed at a rate of 2.5 cubic yards per hour by filling the 12 cubic yard dump box and monitoring the material through. A small jig was used for clean ups. Water was supplied via an 18-inch diameter gravity-fed steel pipeline at a rate of 1,000 igpm. A large capacity out-of-stream pond received effluent from the wash plant. The pond has no visible discharge to Mayo Lake.

In 1992, stripping was done with a D8 Caterpillar bulldozer. A 988B Caterpillar loader fed the wash plant and placed the tailings in old downstream cuts. A Derocker 10 feet wide by 17 feet long fed two inch minus material to an under current sluice run 16 feet long by 4 feet wide. The sluice was lined with 1.5 inch flat bar riffles at two inch spacing over expanded metal, followed by 3/8-inch punch plate over expanded metal. The processing rate was 60 cubic yards per hour. An 8 by 8 inch Gorman Rupp trash pump powered by a D311 Caterpillar engine pumped water to the wash plant at a rate of 800 igpm. A large out-of-stream settling pond produced no surface discharge. 1995-97 A D9H Caterpillar bulldozer was used for stripping and stockpiling of material. A 988B Caterpillar loader fed the box and removed tailings. A Derocker 10 feet wide by 17 feet long fed the minus 2 inch material to an under current sluice run 16 feet long by 4 feet wide. The processing rate was 100 to 120 cubic yards per hour. An 8 square inch Gorman Rupp trash pump powered by a D311 Caterpillar engine pumped water to the wash plant at a rate of 1000 igpm. A large out of stream settling pond produced no surface discharge.

Environmental Work

Year	Reclamation Work
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1992	The settling pond did not discharge into Mayo Lake, and all water was recycled
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1991	The settling pond did not discharge into Mayo Lake, and all water was recycled
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Landforms

Landform	Comments
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Alluvial Fan Delta Apex	
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Surficial Geology

The material mined was contained in a bedrock depression and consisted of 7 to 8 feet of channel gravels overlain by 6 feet of old tailings. The area had been worked previously and was not frozen.

The cut consisted of slide rock mixed with post-glacial muck, silt, clay and gravel. The mixture of rounded and angular material suggested a glacial deposit possibly associated with a glacial retreat. Up to 55 feet of material overlay the bedrock.

The old channel gravel and three feet of hard schist bedrock were sluiced. The greenstone rocks typically associated with Ledge Creek were not present.

The bench deposit consisted of 30 feet of coarse gravels overlain by 40 feet of sand and mud. All of the coarse gravels were sluiced. The channel deposit consisted of 15 feet of fine to medium size gravels overlain by 10 feet of slide rock. Approximately 90% of the gravels were processed.

Bedrock Geology

Bedrock is soft schist with some quartz stringers and a hard conglomerate.

Gold Comments

In 1989, gold recovered was mostly (75%) coarse-grained, and has fineness between 805 and 825.

1980- Gold from Ledge Creek is reported to have a fineness of 808 to 820. Cassiterite has been reported recovered from the creek.

1991- Copper nuggets, scheelite, golf ball sized pyrite, and hematite were found in the concentrate. The best pay was found in conjunction with boulders 3 to 4 feet in diameter.

1994-97 Most of the gold from the bench deposit was coarse and rust stained. A 2.5-ounce nugget was recovered. Gold from the channel deposit was finer. Fineness ranged from 790 to 800.

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