

Yukon Placer Database Operations Report



Field Name: Laurenson, 1999-2002

Last Update: 05-Apr-2004

Status: Recent Producer 1978-present

Stream: Child's Gulch: a tributary of Black Hills

Map Sheet(s): 1150/10

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Operators

Name	From (Date)	To (Date)	Comment
Sarah Laurenson	1999/01/01	2002/12/31	
David Laurenson	1999/01/01	2002/12/31	

Owners

Name	From (Date)	To (Date)	Comment
Sarah Laurenson	1999/01/01	2002/12/31	
David Laurenson	1999/01/01	2002/12/31	

General Location

The operation was located near the top of the watershed, upstream of where Dorados Development had finished mining in the early 1990's.

Location Details

Date:	Latitude Deg : Min : Sec	Longitude Deg : Min : Sec	Elevation (feet)	Distance from Mouth (feet)
2002/01/01	63 29 57	138 51 23		
1999/01/01	63 30 0	138 51 0		

Water Licence(s)

Number	Comments
PM99-020	Expires: 2004/10/30

Work History

In 1999 and 2000, a couple of small cuts and side pay were prepared and sluiced. A cut 100 feet long by 40 feet wide by 30 feet deep was stripped and partially sluiced in 2001. The lower 2 feet of gravels and up to 3 feet of bedrock were sluiced. A small amount of sluicing was done on Black Hills Creek late in the fall of 2002 before the operation was shut down.

Equipment

From 1999 to 2002, a Caterpillar D8H bulldozer equipped with a ripper and U-blade was used for stripping, preparing pay gravels, clearing tailings and reclamation. A Terex 72-51 loader fed the sluice plant and did miscellaneous jobs. A 10-yard hopper fed into a 4-foot wide by 14-foot long double deck screening plant. The top deck screened the pay gravels to -2 inches and the lower deck screened to -3/8 inch for 10 feet and to -3/4 inch for 4 feet. The classified gravels were then washed through three sluice runs totalling 7 feet wide by 21 feet long. A combination of 1/4 inch angle iron riffles, expanded metal and matting was used. A 4-inch by 5-inch pump powered by a Ford engine supplied approximately 1200 igpm, needed to sluice between 50 and 60 cubic yards per hour. Water from Childs Gulch was captured in recycle ponds near the sluice plant. A partial recycle system was used, with effluent being discharged back to Childs Gulch. Downstream settling ponds provided the final effluent treatment.

Environmental Work

Year	Reclamation Work
2002	All reclamation work was completed for final decommissioning.

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Landforms

Landform	Comments
Gulch	

Surficial Geology

The operation moved upstream on Child's Gulch and the depth varied from 16 feet in 1999 to 30 feet by 2001. A frozen black muck layer 8 feet deep overlies a mixture of boulders, logs and layers of silt, clay and more frozen black muck. The ground "looks like it was just turned upside down", according to the miner.

Bedrock Geology

Bedrock was described as decomposed with lots of blue clay.

Gold Comments

Most of the gold was reported to be rough and flat and the purity varying from 740 to 750 fine.

References

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p. 46

Nowosad, M. Placer Mining Year End Summary, 2003. Client Services and Inspections Division, Yukon Energy Mines and Resources, 2004.: p. 70-71

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 61

Pictures

Title: Laurenson's operation, Child's Gulch

Notes:

