

Yukon Placer Database Operations Report



Field Name: Gimlex Enterprises Ltd., 1994-2003

Last Update: 21-Mar-2005

Status: Active Producer

Stream: Dominion: a tributary of Indian

Map Sheet(s): 1150/10

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Operators

Name	From (Date)	To (Date)	Comment
Tara Christie	1994/01/01	2003/12/31	
Dagmar Christie	1994/01/01	2003/12/31	
Jim Christie	1994/01/01	1997/12/31	
Gimlex Enterprises Ltd.	1994/01/01	2003/12/31	

Owners

Name	From (Date)	To (Date)	Comment
Tara Christie	1994/01/01	2003/12/31	
Dagmar Christie	1994/01/01	2003/12/31	
Jim Christie	1994/01/01	1997/12/31	
Gimlex Enterprises Ltd.	1994/01/01	2003/12/31	

General Location

This operation is located on Dominion Creek, between Gold Run and Sulphur Creeks.

Location Details

Date:	Latitude Deg : Min : Sec	Longitude Deg : Min : Sec	Elevation (feet)	Distance from Mouth (feet)
2003/01/01	63 39 55	138 38 51		
1998/01/02	63 40 3	138 38 34		
1998/01/01	63 39 0	138 37 0		
1995/01/01	63 40 0	138 39 0		
1994/01/01	63 40 12	138 37 12	2,000	

Water Licence(s)

Number	Comments
PM01-246	Expires: 2006/11/30
PM96-050	
PM93-065	

Work History

Two to four miners worked 12 hours per day in 1994. Two cuts were completed and another was started. A total of approximately 50,000 cubic yards were sluiced. The cuts were approximately 300 feet by 300 feet in surface area. Waste and tailings from the third cut were used to begin restoration of the previous cuts. Water was supplied by an aquaduct belonging to Ross Mining Ltd., the upstream operator. Effluent was settled in mined-out cuts beside the ditch. The final discharge to the creek was located approximately four kilometers downstream at the end of the ditch.

In 1995, the operator employed 7 miners who worked 12 hours per day. Three camp workers were employed in each of 1995 to 1997. Two cuts were mined; one was 300 by 350 feet and the other was 300 by 700 feet.

The operator employed 5 miners for the 1996 season. Two cuts were mined in the same area as in 1995. These cuts were 300 by 700 feet and 300 by 650 feet. One cut was mined in a new area located downstream on the right limit of the valley. This cut was 300 by 500 feet.

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Three to five miners were employed in 1997. Two cuts were mined in the same area as the previous year. One cut measured 200 by 600 feet and the other was 300 by 600 feet.

For the 1998 to 2002 seasons, with the exception of 2000 when four miners worked the site, six miners were employed. One 12 hour shift was worked per day.

In 1998 to 2000, one cut was mined each season. The cut sizes in order were 750 by 250 feet, 900 by 250 feet, and 600 by 250 feet. Processing rate ranged from 100 to 250 loose yards per hour.

In 2001, two cuts were mined with each having an approximate area of 7000 square metres. The processing rate ranged from 175 to 250 loose yards per hour.

In 2002, one cut of 13,500 square meters was mined. The processing rate ranged from 175 to 250 loose yards per hour. Tailings were used to reclaim old works, fix roads, stabilize slopes, to prepare re-circulation ponds for futures mining and prepare set-ups for the sluice plant. Black muck and sandy overburden stockpiles have been set aside for contouring and reclamation when mining is completed. The northeast end of the cut was stabilized and contoured adjacent to the main public road. This reclamation work was extended west for about 1500 feet along the north edge of the mining area in 2002. In 2003, a bulldozer worked on the edge of the recent mine cuts near the Dominion Creek Road.

Production

Year	Stripped	Sluiced
1997	Unknown	100000 square feet
1996	Unknown	555000 square feet
1995	Unknown	315000 square feet
1994	Unknown	50000 cubic yards

Equipment

IN1994 two Komatsu D355 bulldozers and one Komatsu D155 bulldozer, all equipped with U-blades and rippers, were used to strip and mine. A Caterpillar 235 excavator was used to strip, dig drains, and mine. Two Komatsu WA600 loaders were used to strip and sluice.

A Pearson triple run sluice box with side runs, which were adjustable: processed from 70 to 100 loose yards per hour. Water was pumped using a 10 by 12 inch Caterpillar pump at a rate of 3000 to 5000 igpm.

Stripping at this site in 1995 and 1996 was accomplished using one 155 and two 355 Komatsu bulldozers assisted by one Caterpillar 235 excavator. The excavator was also used to move tailings and dig drains. Two Komatsu WA600 loaders were used for gravel stripping, sluicing and hauling tailings. In 1996 an El Russ 42 inch belt feeder with an 18 yard hopper and two 36 inch by 80 foot conveyor was used to feed the sluice box. In 1997 a 475 Komatsu bulldozer was added for stripping. In 1995 and 1996 Gimlex Enterprises used a 12-foot by 50-foot triple run Pierson sluice box. In 1997 an El Russ two-deck screen was used to process 200 to 250 loose yards per hour.

The screen deck was equipped with two 4 foot by 16 foot riffle runs and four 4 foot by 28 foot expanded metal runs and a coarse tailings conveyor delivers minus 3/4 inch material to one side. In all three years water was supplied using a 10 by 12 inch Morris pump powered by a Caterpillar 3406 engine. Water was used by this operation was obtained via ditched from the upstream operation Rodd Mining. The primary source of the water was Dominion Creek. Settling at this site was in out-of-stream ponds. In the older area upstream the two settling ponds were 200 by 600 feet and 400 by 100 feet. In the newer area a recycle settling system was started. The primary pond size in 1996 was 200 feet by 300 feet. Effluent then drained away via seepage through coarse tailings to another pond 20 by 600 feet. In 1997 the primary settling was in a 300 by 500 foot pond. The discharge from the pond was carried via a ditch approximately 1000 feet long to a lower 500-foot by 1000 foot pond. Discharge from the lower pond was via a spillway into an old ditch where it mixed with the discharge from Ross Mining. Most of the sluicing at this property was done using a single loader except when the tailing runs became too long.

In 1998-2003, the same equipment and wash plant was used as in previous years. Process water was obtained from a drainage ditch from the upstream operation, Ross Mining Ltd. The ditch was extended to bring water to within

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500 feet of where it was required. Effluent was treated in a 600 by 200 foot pond. Recirculation of approximately 50% of the water ensured an adequate supply. In 1999 and 2000, runoff and seepage filled the re-circulation pond. Effluent was settled out of stream in a 700 by 200 foot settling area. There was 100% recirculation of the water. In 2000, run-off, seepage and snow-melt were collected by means of ditches in the recirculation ponds. Previous years' cuts with a total of 11,000 square meters were used to attain 100% recirculation. Concentrations from the wash plant are cleaned daily. They are first processed through a home-made mini-screen plant which screens material to minus 12 mesh which flows through a long tom, and plus 12 is collected and run through a jig. The minus 12 mesh fraction is then cleaned on three 3 foot diameter wheels.

Environmental Work

Year	Reclamation Work
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2003	Reclamation occurred as mining progressed.
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Landforms

Landform	Comments
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Alluvial Valley	
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Surficial Geology

Gimlex gold mines is mining intermediate-level gravel in lower Dominion Creek. The gravel consists of 3.5 meters of grey pebble gravel (interpreted as reworked White Channel Gravel) overlain by 1 meter of brown granule gravel with interbedded sand lenses (Dominion Creek Gravel).

The average total depth to bedrock was 42 feet. The top 15 feet consisted of frozen organic material and mud. Under this was 7 feet of washed brown gravel and sand, then 20 feet of White Channel Gravel. Bedrock was a green chlorite schist. A total of 8 feet of lower gravel and upper bedrock were sluiced.

In 1995, the upstream area mined in 1995 and part of 1996 the total depth averaged 42 feet all of which was frozen. The stratigraphic section consisted of 15 feet of mud, 10 feet of brown sand and gravel and 17 feet of gray gravel (White Channel).

The new area started in 1996 consisted of 35 feet of frozen mud on 6 to 10 feet of frozen gravel.

In 1997 the miners encountered 20 to 45 feet of sandy and silty mud on 5 to 10 feet of gravel, all of which was frozen. In 1995 and 1996 the sluice section was the lower 8 feet of gravel and the upper decomposed bedrock. In 1997 all of the gravel was taken along with the upper decomposed bedrock, approximately 2 to 3 feet.

In 1998, the operators encountered frozen gravels from 3 to 12 feet thick, overlain by 40 to 60 feet of frozen black muck and sandy muck (possible loess). The sluice section included the gravel and 1 to 2 feet of decomposed bedrock. The black muck and loess were waste.

Bedrock Geology

Bedrock was grey and green schist which rose towards the south side of the cuts, and it was slightly decomposed.

Gold Comments

Placer gold recovered from the grey gravel is mostly smooth and flattened, with some angular, rough and spongy gold, and has a fineness of 845-865. The gold was predominantly fine, with 90% less than 12 mesh. Larger gold was mostly rough, crystalline, or wire, with some smooth and flattened pieces. Fineness was 860.

In 1995, the gold recovered from this property was described as mainly fine grained with any coarser gold being detrital and crystalline in form. The fineness was 850 to 880.

In 1998, 99% of the gold recovered was finer than 12 mesh although occasional small nuggets were found. The gold was bright and had a reported fineness of 850.

References

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1995, 1996, 1997. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 1998.: p. 87-88

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Nowosad, M. Placer Mining Year End Summary, 2003. Client Services and Inspections Division, Yukon Energy Mines and Resources, 2004.: p. 49

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 41-24

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Pictures

Title: Aerial View of Gimlex Operation



Notes:

Title: Gimlex Gold Mines, Dominion Creek



Notes:

Gimlex conveyors feeding wash plant.