

# Yukon Placer Database Operations Report



Field Name: Lucky Lady Placers, 1981-2003

Last Update: 21-Mar-2005

Status: Active Producer

Stream: Sulphur: a tributary of Dominion

Map Sheet(s): 1150/10, 1150/15

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## Operators

Name	From (Date)	To (Date)	Comment
Kris Kana	1998/01/01	2003/12/31	
Lance Gibson	1988/01/01	2003/12/31	
Don Gibson	1981/01/01	1984/12/31	

## Owners

Name	From (Date)	To (Date)	Comment
Kris Kana	1998/01/01	2003/12/31	
Lance Gibson	1988/01/01	2003/12/31	
Lucky Lady Placers	1981/01/01	2003/12/31	
Don Gibson	1981/01/01	1984/12/31	

## General Location

In 1981, the property was situated along the left limit of Sulphur Creek, just upstream from the mouth of Brimstone Gulch. The operation moved to the right limit of Sulphur Creek near its confluence with Brimstone Gulch in 1998. The property has been mined continuously since the early seventies by Don Gibson and carried on by his son Lance, and partner Kris Kana.

## Location Details

Date:	Latitude Deg : Min : Sec	Longitude Deg : Min : Sec	Elevation (feet)	Distance from Mouth (feet)
2003/01/02	63 44 20	138 51 5		
2002/01/01	63 45 0	138 53 0		
1995/01/01	63 44 0	138 51 0		
1988/01/01	63 43 0	138 50 0		
1981/01/01	63 44 0	138 51 0		

## Water Licence(s)

Number	Comments
PM01-263	New license covered work on additional claims acquired by Gibson.
LP00014	
PM00-181	
PM95-097	Expires: 2005/05/01

## Work History

In 1981, Mr. Gibson began work at the property stripping. A cut was mined in 1982 and gravel from the lower portion of the cut was processed. The company continued to mine on the property, but no production or gold recovery figures were given for the preceding years. In 1988, all of the gravel section and up to 4 feet of the bedrock were sluiced. Initially, all of the tailings were bulldozed back to the mining limits, however, towards the end of the season there was adequate space allowed for the placement of tailings in the old cut. One cut was developed, measuring 300 by 250 feet by 36 feet deep, for an excavation of approximately 100,000 cubic yards, and for a sluiced production of approximately 28,000 cubic yards. During 1995, a crew of 7 miners covered two 10 hour shifts per day when sluicing and one 10 hour shift when stripping. One cut 300 by 330 feet was mined

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upstream of Brimstone Gulch. The following years, a cut 300 by 300 feet was mined each year. These cuts were located on the right limit of the Sulphur Creek Valley across from Brimstone Gulch. In addition an area 340 by 450 feet was stripped at the end of 1997 in preparation for the 1998 mining season. This area was located upstream from the 1995 cut. Four miners and 3 camp personnel composed this operation in 1998, which was reduced to 3 miners in 1999. One 10 hour shift was run daily, and a cut approximately 310 feet by 400 feet was mined in 1998, while 2 cuts 150 by 150 feet and 300 by 300 feet were excavated in 1999. During 2000 and 2001, one cut was mined each season, averaging about 300 by 340 feet in size. Lucky Lady Placers used most of the material generated by mining for the construction of roads, dikes and water structures. A small amount of overburden was stockpiled. In 2002, the operation was reduced again to 2 people. They used an automatic monitor to strip overburden at the mouth of Brimstone Gulch. Downstream settling pond was diked off and Sulphur Creek was diverted back into the main channel on the right limit. Strippings from new mine cuts were being hauled from new cut at Brimstone Gulch to fill old settling pond facility immediately adjacent to camp on the downstream side. In 2003, the cut at Brimstone was completed and sluicing continued.

### **Production**

<b>Year</b>	<b>Stripped</b>	<b>Sluiced</b>
1997	153000 square feet	90000 square feet
1996	Unknown	90000 square feet
1995	Unknown	99000 square feet
1988	100000 cubic yards	28000 cubic yards

### **Equipment**

In 1981, a D7 Caterpillar bulldozer and a D9G Caterpillar bulldozer were used.

In 1982, a 977 tracked loader was added. The gravel was passed through a sluice box with undercurrents running along part of its length. A monitor operated by a box tender was used to wash the gravel into the sluice box.

In 1983, the D9G stripped the black muck, and the 977 Traxcavator was used to mine the pay gravel and transport it to the sluice box. The sluice box consisted of a single sluice run with two small side runs near the bottom. The main sluice run was lined with Hungarian riffles, and one small section had 1/2 inch punch plate over the riffles. It was set at a gradient of 2 inches to the foot. The side runs were lined with expanded metal and matting. They were set at a gradient of 1 inch to the foot. Water for sluicing was provided at a rate of approximately 1,300 igpm by a 5 by 6 inch pump powered by a 471 Jimmy engine. Effluent from sluicing was directed upstream along the creek valley to a small, deep settling-recycling pond just upstream from the sluice box.

In 1988, a Poclain model 160 excavator for feeding the sluice box was and for digging drains was added. The remainder of the heavy equipment was the same as in previous years. Sluicing was done with a Pearson triple run Rock Box. The dump box measured 20 by 16 feet, with a main center run measuring 20 by 3 feet, and two 20 by 4 foot side runs. The capacity of this assembly is reported to be 100 "loose" cubic yards per hour. The 3,500 igpm of water required was provided via a 12 by 12 inch pump, powered by a Gorman Rupp engine. An out-of-stream reservoir and drain from Sulphur Creek were the water sources. Effluent was settled in the downstream "community-settling pond".

In 1995 and 1996 two D9 Caterpillar bulldozers, two 980C Caterpillar loaders, a 245 Caterpillar excavator, two 3505 Koegring dump trucks, two 270 Caterpillar scrapers and a 12E Caterpillar grader were used to mine this property. One bulldozer stripped while the other pushed pay into a stockpile. During sluicing one loader fed the sluice plant and the other handled tailings. The excavator was used for ditching; cleaning corners of cuts and other add jobs. Dump trucks hauled the pay to the sluice plant and the overburden out of the cut. The grader was used to maintain haul roads.

In 1997 two more D9 Cat bulldozers and a 621 Cat scraper were added. Three bulldozers were used to push pay up. The dump trucks were not used in 1997. The scraper was used to haul dyking material. A 10 by 12 inch pump powered by an Aliis Chalmers 468 horsepower engine was used for hydraulic stripping of some of the overburden.

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A conveyor 46 inches wide by 60 feet long fed a 5 by 14 foot long double deck screen plant. The 1/2 inch minus classified pay gravel was sluiced in two sluice runs 4 feet wide by 20 feet long. Expanded metal and Nomad matting were used in the sluice runs. A 36-inch by 60-foot tailings stacker was added to this plant in 1995. The plant was capable of handling 100 loose yards per hour. A 6 by 8 inch pump powered by a 671 GM engine supplied the 2000 igpm needed for sluicing. Water for sluicing and monitoring was supplied from an out-of-stream reservoir that captured runoff from Brimstone Gulch. Initial effluent treatment was accomplished in a settling pond on-site with final treatment occurring in the Sulphur Creek Community Settling pond.

In 1998, the equipment stayed the same as previous years. This operation processed approximately 125 cubic yards per hour with a Cornell 6 by 8" pump, powered by a General Motors 671 diesel engine running anywhere from 1000 to 1200 igpm. The tailings stacker was 36 inches wide by 60 feet long and two sluice runs each 4 feet wide by 20 feet long were lined with expanded metal and Nomad matting. One half inch minus classified pay gravels were sluiced. Material was delivered by a 60 foot by 46 inch wide conveyor feeding the 5 foot by 14 foot long double decker screen plant. Under Water Licence PM95-097, a community settling pond was included for use by a number of Sulphur Creek miners. Mr. Gibson acquired the claims upon which the settling ponds were constructed in 2000 for the exclusive use of Lucky Lady Placers due to the downturn in placer mining activity. There was also a concern that maintenance and control of these large ponds needed to be under the management of one operator in order to properly identify non-compliance issues. This operation utilizes an out of stream recycling system for its sluicing and monitoring programs. Effluent is conveyed downstream using a combination of the creek and a ditch located on the right limit of Sulphur to three large settling ponds built from dredge tailings. When necessary, an on-site pond was constructed from old mining cuts to clean up any upstream effluent in order to have clean water for monitoring. During 2003, the creek was used as conduit to settling ponds below Krugar's operation. Sulphur Creek was turned into the downstream settling facility as per licence.

### **Environmental Work**

<b>Year</b>	<b>Reclamation Work</b>
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2002	Gibson stabilized a pit wall and completed some contouring.
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### **Landforms**

<b>Landform</b>	<b>Comments</b>
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Alluvial Valley	
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### **Surficial Geology**

Intermediate-level gravel is being mined by Lucky Lady Placers on Sulphur Creek. The gravel consists of 1.5 meters of reworked White Channel Gravel resting on quartz schist and muscovite schist and overlain by 1 meter of Sulphur Creek Gravel, which is overlain by 3-4 meters of mck.

Deposits present are up to 12 meters (40 feet) thick, and consist of up to 9 meters (30 feet) of silty colluvium overlying 3 meters (10 feet) of yellow, cross-laminated gravel. Few clasts in the gravel are larger than 10 cm (4 inches). A "false bedrock" of decomposed clays appears intermittently. Some old underground workings are present. In 1995, overburden consisted of an average of 30 feet of frozen muck. The sluice section was a total of 6 to 10 feet deep comprised of gravel and 2 to 4 feet of bedrock. In 1998, thirty feet of black muck covered about 8 feet of normal creek gravels.

### **Bedrock Geology**

Bedrock was unconsolidated Klondike Schist and 3 feet of this was mined.

### **Gold Comments**

The gold was reported to be mainly fine-grained, with occasional traces of mercury. Fineness ranged from 810 to 830. In 1995, the operators generally recovered very little coarse gold, in 1996, however, more coarse gold was recovered from a previously mined area with a fineness around 810. During 1998, gold had a fineness of 800.

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### Pictures

**Title:** Lucky Lady's sluice plant on Sulphur Creek

**Notes:**

