

# Yukon Placer Database Operations Report



**Field Name: Mary Ange Resources, 1998-2001**

**Last Update: 17-Feb-2005**

**Status: Recent Producer 1978-present**

**Stream: Sulphur: a tributary of Dominion**

**Map Sheet(s): 1150/10**

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## Operators

Name	From (Date)	To (Date)	Comment
Michael Klein	1998/01/01	2001/12/31	
Richard Klein	1998/01/01	2001/12/31	
Grant Klein	1998/01/01	2001/12/31	

## Owners

Name	From (Date)	To (Date)	Comment
Michael Klein	1998/01/01	2001/12/31	
Richard Klein	1998/01/01	2001/12/31	
Grant Klein	1998/01/01	2001/12/31	
Mary Ange Resources	1998/01/01	2002/12/31	

## General Location

Located upstream from the lower dredge on Sulphur Creek, Grant, Richard and Michael Klein moved an equipment/fuel storage area camp over from Gold Run Creek in order to mine the remaining virgin ground and re-mine old dredge tailings.

## Location Details

Date:	Latitude			Longitude			Elevation (feet)	Distance from Mouth (feet)
	Deg	Min	Sec	Deg	Min	Sec		
2003/01/01	63	42	53	138	56	3		
2001/01/01	63	44	0	138	50	0		
1998/01/01	63	44	0	138	50	0		

## Water Licence(s)

Number	Comments
PM95-054	Expired: 2002/04/15
LP00079	
PM98-064	Expired: 2002/04/15

## Claims

File Date	Number	Name	Status
	48		
	47		
	46		
	45		
	44		
	43		
	42		
	41		
	40		

**Claims**

<b>File Date</b>	<b>Number</b>	<b>Name</b>	<b>Status</b>
	39		
	38		
	37		
	36		
	35		
	34		

**Work History**

In 1998, 3 miners began the work with 2 camp personnel; in 1999 this increased to 5 miners, with 6 in 2000 and back down to 5 miners in 2001. Work shifts varied between 10 and 12 hours. In 1998, an estimated volume of 96,100 cubic yards of waste was mechanically removed, while hydraulic stripping moved about 50,000 cubic yards. 1999 saw a program of 32,000 cubic yards being hydraulically stripped and 242,777 cubic yards mechanically removed. In 2000 the figures remained much the same, with 204,843 cubic yards mechanically removed while hydraulic stripping accounted for 30,000 cubic yards. The operation wound down in 2001 to 92,500 cubic yards of waste being mechanically stripped. Mining claims 34 to 48 were mined consecutively, representing approximately 1.32 miles of ground out of which 395,205 cubic yards of pay gravels were sluiced. Mining was completed at this site by August of 2001, and reclamation for final decommissioning was completed in 2002.

**Production**

<b>Year</b>	<b>Stripped</b>	<b>Sluiced</b>
2001	92500 cubic yards	Unknown
2000	30000 cubic yards	Unknown
1999	242777 cubic yards	Unknown
1998	50000 cubic yards	Unknown

**Equipment**

During the fall of 1997, 2 D9N Caterpillar bulldozers were moved onto this property to strip the black muck overburden. A Caterpillar 637E scraper with push/pull front and rear engines was employed as well removing the old surface tailings and constructing the dykes required for a settling pond. A Caterpillar 235 hydraulic excavator with a 42" dig bucket and a 72" clean up bucket was added in 1998 to feed the sluice plant, along with a Caterpillar 245 back hoe to load the scraper. At various times throughout the mining, a Caterpillar D9N and a D9L bulldozer with multi-shank rippers, a D10N Caterpillar bulldozer with a single shank ripper and U blade, and a Caterpillar 966D bulldozer with a 4 cubic yard bucket were used in various capacities. A 330BL Caterpillar excavator hoe with a 21 foot 4 inch boom and a 54 inch clean up bucket was used in 1999 and 2001 to bail tailings ponds and load the scraper and the D300E Caterpillar haul truck. A Hewitt Robbins screen deck and 4 sluice runs with 1 inch punch plate holes and lined with outdoor matting was powered by a D60P1 Caterpillar Olympian 3 phase generator rated 54 kilowatts producing 480 volts of electricity. An 8 by 10 Morris pump capable of 3500 igpm and powered by a 3406 Caterpillar diesel engine fed the hopper and conveyor belt. Approximately 126 cubic yards were sluiced per hour. Mary Ange Resources Ltd. was licenced for in stream and out of stream works. Water for sluicing was obtained from Sulphur Creek and an unnamed left limit tributary. When possible, the operators worked out of stream using old mine cuts for tailings as required. During low water, in stream reservoirs were constructed. Recycle was 100 per cent and the tailing ponds averaged about 1000 feet by 200 feet in size.

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### **Environmental Work**

<b>Year</b>	<b>Reclamation Work</b>
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2002	Reclamation of the mined areas was done; tailings were recontoured and sloped, overburden was spread over, a culvert was installed on access to the dredge and the breach was fixed.
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### **Landforms**

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

The Sulphur Creek Valley is fairly wide and flat at this point. Overburden consisted of 30 feet of frozen black muck. An average of about 8 feet of pay gravels and 3 feet of rolling, decomposed bedrock were sluiced.

### **Bedrock Geology**

The rocks are principally of the light greyish and light greenish schists of the Klondike series. The schists are cut by numerous quartz veins and by occasional bosses and dykes of rhyolite. In the lower part of the valley the schists become coarser, more granular, and appear to change gradually to a granite gneiss, and near the mouth to granite.

### **Gold Comments**

The gold recovered was very fine and bright, most of which was +8-10 mesh. Some quartz was present with a few nuggets, with an average fineness of 810.

### **References**

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p. 102-103

Thomson, R.F. Placer Mining Year End Summary, 2002. Mining Inspection Division, DIAND, 2003.: p. 68-69

### **Pictures**

**Title:**

**Notes:**