

Yukon Placer Database Operations Report



Field Name: Macdonald, 1999-2000

Last Update: 21-Mar-2005

Status: Active Producer

Stream: Montana: a tributary of Indian

Map Sheet(s): 1150/10

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Operators

| Name | From (Date) | To (Date) | Comment |
|------------------|-------------|------------|---------|
| Donald Macdonald | 1999/01/01 | 2000/12/31 | |

Owners

| Name | From (Date) | To (Date) | Comment |
|------------------|-------------|------------|---------|
| Donald Macdonald | 1999/01/01 | 2000/12/31 | |

General Location

This operation was located on the left limit of Montana Creek at the confluence of Stowe Creek.

Location Details

| Date: | Latitude Deg : Min : Sec | Longitude Deg : Min : Sec | Elevation (feet) | Distance from Mouth (feet) |
|------------|-----------------------------|------------------------------|---------------------|-------------------------------|
| 2003/01/01 | 63 37 50 | 138 59 59 | | |
| 1999/01/01 | 63 40 0 | 138 57 0 | | |

Water Licence(s)

| Number | Comments |
|----------|--|
| PM98-070 | Water Licence was transferred from Lokey Mining Service in 1998 and then was transferred to Richard Allen in 2001. |

Work History

This was a two person operation. Three cuts were mined in 1999, each was 100ft x 130ft, 100ft x 200 ft, 100ft by 150ft. Sluicing along the right limit on both Montana Creek and Stowe Creek occurred between 1999 and 2000.

Production

| Year | Stripped | Sluiced |
|------|----------|---------------------------|
| 1999 | Unknown | 48000 bedrock square feet |

Equipment

One Caterpillar D9H bulldozer was used to strip overburden and gravel, to stockpile pay gravel and to remove tailings. A Caterpillar 235 excavator was used to feed the wash plant. An oscillating screen deck, 5 feet by 10 feet, classified to 3/4 inch minus. A single sluice run had expanded metal on Nomad matting as well as 1 inch riffles on Nomad matting. A Peabody Barnes 6 inch water pump supplied about 1000 igpm which was used to process approximately 80 cubic yards per hour. Water was pumped from Stowe Creek and was recycled in an out of stream settling pond.

Landforms

| Landform | Comments |
|-----------------|----------|
| Alluvial Valley | |

Surficial Geology

Intermediate-level gravel is being mined on a low-level bedrock terrace on the left limit of Montana Creek. The terrace is approximately 4 m above present day Montana Creek. It is incised into orthogneiss and is capped by 2.5 m of slightly cobbly, sandy, very coarse pebble gravel, which is overlain by muck. The gravel represents a floodplain deposit of paleo-Montana Creek. Frozen black muck 12 to 15 feet thick occurred on top of 15 to 22 foot

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thick gravel layers. Seams of fine, sandy gravel were interspersed with the coarse gravel layers, which contained boulders up to 2 feet in diameter.

Bedrock Geology

Bedrock consists of Paleozoic or older gneiss, green chloritic schist, quartzite, and minor limestone. Minor outcrops of Tertiary conglomerate, sandstone and shale also occur as well as decomposed granite and some conglomerate.

Gold Comments

Fine grained gold, approximately 10% 10 to 20 mesh, 30% 20 to 30 mesh, 40% 30 to 40 mesh and 10% below 40 mesh, with fineness around 770. Gold was noted to be associated with the coarser gravels. Gold recovered from the gravel is brassy and flaky with attached quartz. It has a fineness of 770.

References

Mining Inspection Division, Yukon Region. Yukon Placer Mining Industry 1998-2002. Department of Indian Affairs and Northern Development, Whitehorse, Yukon, 2003.: p. 44

Pictures

Title: Macdonald operation 1999

Notes:

Aerial view of Don Macdonald's operation on Stowe Creek in 1999.

