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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BLACK BEAUTY PROPERTY

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 577B

LOCATION: TOWNSHIP 8 S RANGE 16 E SECTION 34 QUARTER C
LATITUDE: N 32DEG 41MIN 40SEC LONGITUDE: W 110DEG 41MIN 48SEC
TOPO MAP NAME: MAMMOTH - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE

BIBLIOGRAPHY:

ADMMR BLACK BEAUTY MINE FILE
ADMMR FILES

BLACK BEAUTY MINE

REFERENCES

PINAL COUNTY
MAMMOTH DIST.
T8S R16E Sec. 34 C

Pinal County MILS Index #577B

Mammoth, AZ 7.5' Topo (included in file)



Black Beauty Mine

TBR 105 Sec. 34

Mammoth, A \pm 7.5

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Black Beauty Mine & Mill Date September 16, 1959
District Mammoth, Tiger District, Pinal Co. Engineer Axel L. Johnson
Subject: Present Status. Information from "Buck" Richardson, San Manuel

References: Report of July 15, 1959 & previous reports.

Present Status: Mine reported closed down.

Closing date July 8, 1959.

Operators Raymond Godfrey and Grant Godfrey have moved to Safford and will not resume operations.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Black Beauty Mine & Mill Date July 15, 1959
District Mammoth, Tiger District, Pinal Co. Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from Grant Godfrey and personal visit.

References: Report of March 11, 1959 and previous reports.

Present Status: Mine was closed down on July 8, 1959, after the main pump, supplying water for the milling operations broke down. Mr. Godfrey states that operations will not be resumed unless there is an extension of the government manganese car lot program beyond the Aug. 5th deadline now reported.

Past Production: Mr. Godfrey reports that about 30 tons of manganese concentrates were produced in the month of June, the entire production being sold to Al Stovall.

Additional: A suggestion was made to Mr. Godfrey by the field engineer, that he wire Senator Hayden in Washington, protesting the early closing of the manganese car lot program and also requesting additional legislation providing for 10,000,000 additional units.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Black Beauty Mine & Mill Date March 11, 1959
District Mammoth, Tiger District, Pinal Co. Engineer Axel L. Johnson
Subject: Field Engineers Report - Information from Raymond Godfrey and personal visit.

Reference: Report of April 23, 1958, et al.

Present Mining Activity: Mining and milling manganese ore, operating 1 shift, 6 days per week. 4 men working -- 3 in the open pit mine, and 1 at the mill. Mr. Godfrey estimates that about 20 tons of concentrates is produced per week, an improvement over previous production.

Markets: The concentrates are now sold to the government on the manganese car lot program.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Not for publication

Mine Black Beauty Mine & Mill

Date Jan. 14, 1959

District Mammoth, Tiger District, Pinal Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report - Information from Raymond Godfrey and personal visit.

Reference: Report of April 23, 1958, et al.

Present Mining Activity: Mining and milling manganese ore. Mine and mill operating 1 shift, 6 days per week. 5 men working - 3 at the mine, 1 at the mill and 1 mechanic. Production about 56 tons of ore per day, yielding from 14 to 15 tons of concentrates per week. Mr. Godfrey reports that the mined ore runs about 7% manganese, and the concentrates about 43%. He also states that 4 parts of middling is produced and stock-piled to every 6 parts of concentrates, and that said middlings run about 20%.

Using the above figures from Mr. Godfrey, the % recovery, based on the amount of concentrate produced, would be

$$\frac{14.5}{7} \times \frac{43}{56} \times \frac{100}{6} = 26.5\%$$

Markets: Mr. Godfrey reports that, at present, they are selling their concentrates to Mr. Stovall, who pays them \$1.65 per unit, f.o.b. mine. It is expected that they will also sell additional ore on the Government Manganese Car Lot Program.

Shipments to Date: Mr. Godfrey states that about 6 carloads of concentrates have been sold to date, about 60 tons of this being sold to Al Stovall.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Black Beauty and Mill

Date Sept. 11, 1958

District Mammoth, Tiger Dist., Pinal Co.

Engineer Axel L. Johnson

Subject: Present Status. Personal visit.

References: Report of April 23, 1958 and previous.

Present Mining Activity: Mining and milling manganese ore. Production reported as about 40 tons of ore per day, yielding 5 tons of concentrates. Average production has been only about 1 carload of concentrates per month, due to breakdowns and other delays. 5 carloads of concentrates have been shipped since operations started about March. 12 men working.

Milling & Marketing Facilities:

(1) The crushing and screening plant at the mine site is now in operation, but the jaw crusher is much too small, will handle only about 1/2 of the feed, and occasionally breaks down.

(2) The same pilot plant is being used at the mill site, although operators reported last April that they expected to start the construction of a 250 ton mill soon. An ore bin was recently added for storing the concentrates prior to shipment.

(3) The concentrates are trucked to Hayden Jct. for shipment on the Manganese Car Lot Program.

Present Mining Operations: Open pit mining operations. Mined ore is run through the crushing and screening plant at the mine site, then trucked for about 1/4 mile to the mill. Mine and crushing-screening plant reported to be operating 2 shifts, and the mill 3 shifts.

Proposed Plans: (1) Operators are now drilling a well in Tucson Wash, near the mill site, in order to obtain additional water for their milling operations.
(2) Operators are considering exploring the property by drilling.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Date April 23, 1958

Engineer Axel L. Johnson

District Mammoth, Tiger, San Manuel District,
Pinal County

Subject: Field Engineers Report. Paersonal Visit & Information from Raymond Godfrey.

References Report of Nov. 13, 1957.

Location About 10 miles NE of Oracle, near the San Manuel # 1 shaft (1,000' to 2,000' SW)

Number of Claims 6 unpatented claims.

Owner William Ward, Box 603, Tombstone, Ariz.

Lessees & Operators (1) Raymond Godfrey & Grant Godfrey, San Manuel Trailer Court, SanMan.
(2) R. L. Strange, San Manuel Trailer Court, San Manuel.
(3) Howard Phillips, Safford, Ariz.

This is a 4 year lease, and calls for a 5 % royalty, with option to buy at \$ 60,000.

Principal Minerals Manganese ore.

Present Mining Activity Mining and milling manganese ore. 5 men working. Production about 40 tons per day of ore mined, and about 5 tons of concentrates per day produced by the milling operations.

Geology & Mineralization See report of Nov. 13, 1957.

Ore Values See report of Nov. 13, 1957.
Raymond Godfrey reports that the mill feed, at present, is running about 16.5 % manganese. This may not be an average figure for future operations, as some rich streaks of ore is being mined at present, and the coarse material from same is being stockpiled for future crushing, when the new crushing plant is completed.

Present Mining Operations An open pit mining operation is being conducted by means of a double drum slusher and a bulldozer-loader. There is no overburden on the ore body, and the operators report that very little blasting is required on the top 10 ft. of the ore deposit in the decomposed granitite. The double drum slusher is mounted on a truck, and scrapes the ore over a grizzly, the oversize from the grizzly being pushed into a stockpile for future treatment at the new crushing & screening plant, and the undersize is loaded into trucks, which haul it to the mill about 1/4 mile away.

Milling & Marketing Facilities A crushing and screening plant is now nearing completion at the ore deposit. After this is completed, the mined ore will be crushed by means of jaw crushers and rolls, and then sized into three sizes by means of shakers and screens, these sizes being (a) 1/2 in. to 1/4 in. (b) 1/4 in. to 10 mesh, and (c) 10 mesh to 100 mesh. These products will then be hauled to the mill 1/4 mile east of the deposit for the milling operations.

A small pilot plant is now in operation at the mill site, where the finer materials from the mining operation described above (undersize from the grizzly) is being milled at present. The capacity of this pilot plant is about 40 tons of ore per day, yielding about 5 tons of concentrates daily. Pilot plant consists of a 40 ton crude ore bin, a 14 ft. x 2 ft. dia. scrubber, a 5" x 7" jaw crusher, and 2 home made jigs.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORTNot for publication

Mine Black Beauty Mine (continued)

Date April 23, 1958

District

Engineer Axel L. Johnson

Subject: Field Engineers Report (continued)

Milling & Marketing Facilities (continued)

The present milling operations are as follows:

The ore from the mining operations is dumped into the 40 ton ore bin. From the ore bin, it passes through the 14 ft. x 2 ft. dia. scrubber, which washes the dirt and clay from the ore. The material is then crushed by means of the 5" x 7" jaw crusher, after which it goes into one of the home made jigs. The concentrates from this jig drops into a pipe, which carries it to the concentrate pile, ready for loading, and the overflow is passed into the second home made jig. This second jig yields a middling product, which drops into a pipe conveying it to a middling stock pile for a future rerun, and an overflow going to the waste dump. Water from a water collection reservoir at the San Manuel # 1 shaft is pumped up to the mill through a 4 in. water line, and used in this milling operation. Waste water is also pumped back into the mill for reuse.

Mr. Raymond Godfrey states that the mill feed now runs about 16.5 % manganese, the concentrates run about 43 %, the middlings run 18 %, and the tailings about 5 %. He also states that 40 tons of ore yields about 5 tons of concentrates, which would indicate a recovery of only about 33 %. However, a considerable amount of 18 % middlings is being stockpiled for a future rerun, when the construction of the new larger plant has been completed. Mr. Godfrey expects construction of the new plant to be started soon, and a much better recovery is expected from this plant. Their ultimate objective, he states, is about 3 carloads, or roughly 180 tons of concentrates per week.

The concentrates are sold to the General Services Administration on the Manganese Car Lot Program. It is hauled by trucks to Hayden Jct. for shipment.

Proposed Plans

(1) Completion of the crushing- screening plant at the mine site (now nearing completion).

(2) Construction of the new mill (to be started soon). The capacity of this mill will be about 250 tons of ore per 24 hrs. It is expected that about 180 tons of concentrates per week will be produced from this operation.

(3) Construction of a loading ramp at the San Manuel Townsite for the loading of cars for shipment. This will save the long haul to Hayden Jct.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Not for publication

Mine Black Beauty Mine

Date Nov. 13, 1957

District Mammoth, Tiger, San Manuel District,
Pinal County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Personal Visit & Information from Raymond Godfrey.

Location About 10 miles NE of Oracle. About 1,000 to 2,000 ft. WSW of the San Manuel # 1 shaft.

Number of Claims 6 unpatented claims.

Owner William Ward, Box 603, Tombstone, Ariz.

Lessees & Operators

- (1) Raymond Godfrey & Grant Godfrey, San Manuel Trailer Court, San Manuel.
1/3 interest ---- to furnish labor & operating experience.
- (2) Howard Phillips, Safford, Ariz. ----- 1/3 interest. --- to furnish capital
- (3) R. L. Strange, Pres. Strange Mining Co. ----- 1/3 interest. " "

Principal Minerals Manganese ores.

Present Mining Activity Overhauling 3 jigs to be used as part of a mill to be erected to treat the manganese ore on the property. 3 men working--- Godfrey Bros. & Godfrey Jr.

Geology & Mineralization The manganese ore occurs as veinlets and small ore lenses, scattered throughout a decomposed granite formation. In some places, the granite is quite highly mineralized with the small veins and lenses of manganese ore. In other places, in the formation, the mineralization is quite low. The granite formation dips about 30 degrees to the West. The ore bearing area, suitable for open pit mining, is estimated to be roughly circular---- about 500 ft. in diameter, and roughly 20 ft. in depth. The top 10 ft., near the surface, is quite decomposed and can be cut with a bulldozer, without blasting. Below this, the formation is more solid, and blasting will be required. The ore veins & ore lenses, separated from the gangue runs about 40% & u

Ore Values Mr. Godfrey believes that, by means of selective mining with slushers, they can keep the mill heads up to 10 % in manganese content. Also, he believes that the whole deposit would average from 6 to 7 %. These figures appear to be a trifle high, but even if the ore only runs one half of these figures, it should be a profitable operation, as the cost of mining would be small, and the ore can be easily concentrated by means of jigging. Concentrates, which should run well over 40 %, will be sold to the G. S. A. on the Government Car Lot Program. Ore contains very little Iron and Silica.

Milling & Marketing Facilities Mill construction for milling the ore has now been started, and Mr. Godfrey estimates the mill will be finished in about 90 days. The mill will have a capacity of 250 tons per 24 hrs. It will consist principally of 5 jigs, for recovery of the ore. Before the ore goes to the jigs, it is crushed to minus 1/2 inch by means of a jaw crusher and rolls, and then sized into three sizes by means of a sizing plant with shakers and screens, the sizes being (a) 1/2 in. to 1/4 in., (b) 1/4 in. to 10 mesh, and (c) 10 mesh to 100 mesh. One jig will be used for each size. The mill is being erected 1/4 mile east of the deposit, except for the crushing and sizing plant, which will be at the deposit. Water from the San Manuel #1 shaft will be pumped up to the mill through a 4 in. water line, from a water collection reservoir.

Past History & Production Operators have shipped 3 truckloads to the Stovall Manganese Plant at Casa Grande. 5 tons of same ran 33 %; 5 tons ran 44 %, and 3 tons ran 42 %. This was hand sorted ore obtained from the deposit. Operators also report that they have a 500 ton stockpile of ore ready for milling, which will run from 5 % to 10 %.

Mining Operations Will be open pit, by means of bulldozer and slushers.