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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: BLACK HAWK MINE

ALTERNATE NAMES:  
GARD EAST

GRAHAM COUNTY MILS NUMBER: 182

LOCATION: TOWNSHIP 7 S RANGE 21 E SECTION 35 QUARTER C  
LATITUDE: N 32DEG 46MIN 55SEC LONGITUDE: W 110DEG 10MIN 15SEC  
TOPO MAP NAME: BUFORD HILL - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:  
MANGANESE

BIBLIOGRAPHY:

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ADMMR BLACK HAWK MINE FILE  
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DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

✓  
Mine Black Hawk Mine

Date June 11, 1958

District Clark Mining District, Graham County

Engineer Axel L. Johnson

Subject: Field Engineer's Report. Personal visit and information from Les Neilson.

References: Reports of October 7, 1954, March 4, 1954 and May 6, 1953.

Location: *Possibly sec 36, T 75, R 21 E* About 19 miles northeast of Klondyke. Starting from Klondyke, drive 8 miles to the junction of the Bonita-Willcox and Safford roads, turn left and drive on the Safford road for a distance of 7 miles, turn right (E) at the sign marked (Cedar Camp), and drive an additional 4 miles east to the mine.

No. of Claims: 11 unpatented claims (5 claims being leased and 6 additional claims being located by the lessee).

Owners: Bill Carter, Pima, Arizona ~~and~~ Port McEuen, Fort Thomas, Arizona, and Van Boyle, Lehigh

Lessee and Operator: Les Neilson, Box 338, Pima, Arizona. This is a straight lease providing 10% royalties. Date of lease, March 12, 1958.

Principal Minerals: Manganese ore.

Present Mining Activity: Working with a bulldozer trenching and leveling preparatory to starting work on inclined shaft. 1 man working (owner).

Milling and Marketing Facilities: No mill on the property. Operator expects to hand sort the ore to obtain sufficient grade preparatory to shipping. Operator has a contract to ship 50 tons of manganese ore to the Southwest Blending Company at Deming and Socorro. After this he states he will ship ore on the Government Manganese Carlot Program.

Past History and Production: See previous reports.

Present Mining Operations: Mr. Neilson, the operator, has worked about  $1\frac{1}{2}$  months with a bulldozer making a trench into the old pit, cleaning out the old pit, and leveling up a place from which he will start inclined shaft. At present Mr. Neilson is working alone, but he expects to have a partner or hire a man to work with him shortly.

Proposed Plans: Mr. Neilson would like to have a partner to assist in financing and operating the property. He states that he will sell a 35% interest in the lease for \$5,000.00 which will be used to buy mining equipment supplementing the equipment which Mr. Neilson already owns.

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Visited the Black Hawk Mine (manganese) found it to be idle, could not locate operator.

ALJ. Weekly Report Sept. 8, 1958

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IC 7990, p. 91

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Black Hawk Mine and Mill

Date Oct. 7, 1954.

District Aravaipa Dist. ----Graham County

Engineer Axel L. Johnson

Subject: Present Status. Information from Ray Pointer, former mine foreman.

Note:-- For information of location, ownership, minerals, geology, mine workings, and additional information ----- see my report of this property under date of Mar. 4, 1954, and also my report of May 6, 1953.

~~Present Status~~

Present Status Mine is closed down, and the mill is closed and partially dismantled. Reasons for closing are reported to be lack of sufficient ore reserves of manganese ore on the Black Hawk mine property, and failure to find additional ore by exploration.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Black Hawk Mine and Mill

Date Mar. 4, 1954

District Aravaipa District ----Greenlee County

Engineer Axel L. Johnson

Subject: Report of Mining Operations

For Location, Ownership and General Information----see Report of May 6, 1953.

Lessee and Operator ✓ C. J. Rodham, Box 61, Safford, Arizona.  
✓ Richard Rutledge, Safford, Ariz. -----General Superintendent.  
✓ Ray Pointer, Box 515, Thatcher, Ariz. -----Mine Foreman

Principal Minerals ✓ Manganese ore

Number of Men Employed 7 men (3 at the mine and 4 at the mill)

Production Rate 15 to 20 tons per day of ore produced at the mine. (Appr. aver. 18 tons)  
This ore is hauled by trucks about 22 miles to the mill at Cork Siding. About 32 tons of concentrates per month has been produced from this operation.

Geology See report of May 6, 1954.

Ore Values Ore values from day to day vary. The ore has run from 2 % to almost 10 % of ~~an~~ manganese. The average content to date has run somewhat less than 5 %. Better ore showings are now found at the bottom of the open pit workings.

Ore in Sight and Probable. Present ore in sight is confined to the ore showings at the bottom of the pit----a main ore vein about 12 inches in width, with some smaller veinlets. As the depth of this ore is not known, this does not represent any appreciable tonnage. The length of the ore deposit is also unknown. There are some ore showings at the surface approximately 200 ft. away.

Milling and Marketing Facilities Operator, last year constructed a mill near Cork Siding to mill the ore from the Black Hawk mine and also to mill ~~ax~~ any custom ores in the area. So far, no custom ore has been milled, and the tonnage obtained from the mine operations have not been sufficient to keep the mill working at full time capacity. The mill has been working from 1 to 3 days per week, depending on the amount of ore mined.

The mill consists of 7 large size jigs with the necessary ore bins and conveyors, and water supply. The ore is not crushed, and everything that goes through a 1 inch grizzly is passed into the jigs for treatment, without sizing.

Full capacity of the mill is supposed to be 100 tons per 8 hr. However, with the present arrangement, the operators have been able to mill only from 60 to 80 tons per ore on an 8 hr. shift. Even this, is about 4 times as much ore as they have been able to produce at the mine per 8 hr. shift.

The coarse product from the jigs averages about 48 % manganese, and the fine product averages 35 % manganese. The fines and the coarse are mixed prior to shipping to the Deming depot, and this product averages about 42 % manganese. Concentrates are hauled by trucks to the Deming manganese depot.

Proposed Plans Operators now find that their open pit workings are too deep and too steep to continue further with their open pit operations. Their plans now are to sink a shaft at the bottom and deepest part of the open pit workings. The shaft will follow the dip of the most prominent ore vein, and will be approximately 80 deg. inclined, and will continue to the bottom of the ore body. Writer suggested to the mine foreman to also explore some rather good ore showings on the surface about 200 to 250 ft. away from the present open pit, and, if this should prove up, to operate this open pit in addition to the proposed underground workings.

8-28-53 - Report from CFW office:

They have been shipping hand-picked ore to Deming for the past couple months. The Mn content is 47% and there are no penalties; seems to warrant building a mill which they are now doing near the railroad.  
(above received in a letter from Mr. Rodham).

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Black Hawk Mine ✓

Date May 6, 1953

District Aravaipa District --Graham Co.

Engineer Axel L. Johnson

Subject: Report of Mining Operations

Location Approximately Sec. 31 -- T 7 S - R 22 E.

Go 8 miles SE to Safford road Junction.---- Go 7 1/2 miles NE on Safford road.  
Go 4 miles SE on mine road. Road in fair condition. Needs minor repairs.

Owner Gard East, Pima, Ariz.

Lessee and Operator ✓ C. J. Rodham, Box 61, Safford, Ariz. Supt.--- Ray Pointer. ✓

Principal Minerals ✓ Manganese

Number of Men Employed 5 men

Production Rate Practically no ore production. Operators are trenching with double drum slusher, in an effort to develop ore reserves, prior to the installation of a mill.

Topography Country rolling. On lower foothills of the Pinaleno Mts.

Geology Country rock is granite. Granite rock contains fissures and shear zones, containing altered and decomposed sheared rock materials. In this sheared rock material, are found narrow stringers of manganese oxide ore from about one to two inches in width, scattered irregularly throughout the shear zone. The sheared rock zone at present being explored is from 6 to 10 ft. wide, the manganese stringers, from one to two inches in width, being scattered throughout the shear zone, but appear to be less than 10 % of the volume of same. The manganese oxide is of good grade, and should assay over 40 % of MnO<sub>2</sub>.

Ore Values Ore of good grade, and assays from 40 to 50 % of Mn. Ore has to be hand sorted, or put through a mill, to obtain a shipping product.

Ore In Sight and Probable Shear zone crossed by the exploration trench shows up manganese stringers on both sides of the trench. Area of exposed ore is about 8 ft. wide, and about 20 ft. deep. Length of deposit not yet determined.

Milling Facilities If enough ore is developed, operator expects to build a mill for treating the ore. Mill would have to be built a considerable distance from the mine, where water would be available.

Present Mine Workings One exploration trench about 200 ft. long, and 20 to 30 ft. in depth.

Present Operations Working in exploration trench. Double drum slusher is used, and material scraped into small ore bin. At the ore bin, the material is being screened, forming a fine and coarse product, and is being hand sorted. A stockpile of about 10 tons of manganese ore has been accumulated.

Past Shipments Owner, Mr. Gard East worked the mine last winter, hand sorted 10 tons of manganese ore, and shipped to the Deming depot. Present operator leased the property on April 8th, and started work very soon afterwards.

Proposed Plans Continue exploration work. May be interested in a D. M.E. A. Loan.