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04/16/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: BLACK DIAMOND

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 359A

LOCATION: TOWNSHIP 11 N RANGE 12 W SECTION 6 QUARTER NE
LATITUDE: N 34DEG 19MIN 39SEC LONGITUDE: W 113DEG 32MIN 24SEC
TOPO MAP NAME: ARTILLERY PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE NODULES
CALCIUM CALCITE

BIBLIOGRAPHY:

ADMMR BLACK DIAMOND-AMERICAN MINE FILE
ADMMR MOHAVE CUSTOM MILL PROJECT
ADMMR MOHAVE FILES
FARNHAM, L.L. "MANGANESE DPSTS OF W AZ" USBM
IC 7843, P. 38-40, 1958
"MIN. & WTR. RES. OF AZ" AZBM BULL 180 P 217
MALACH, R. "MOHAVE CTY MINES" P 33, 1977
AZ. BLM AMC FILE #49658

BLACK DIAMOND ~~GROUP~~

REFERENCES

MOHAVE COUNTY
ARTILLERY MTS. DIST.
T11N R12W Sec. 6

Mohave County MILS Index #359A

USGS Prescott Map

USGS Artillery Peak, AZ 15' Topo (included in file)

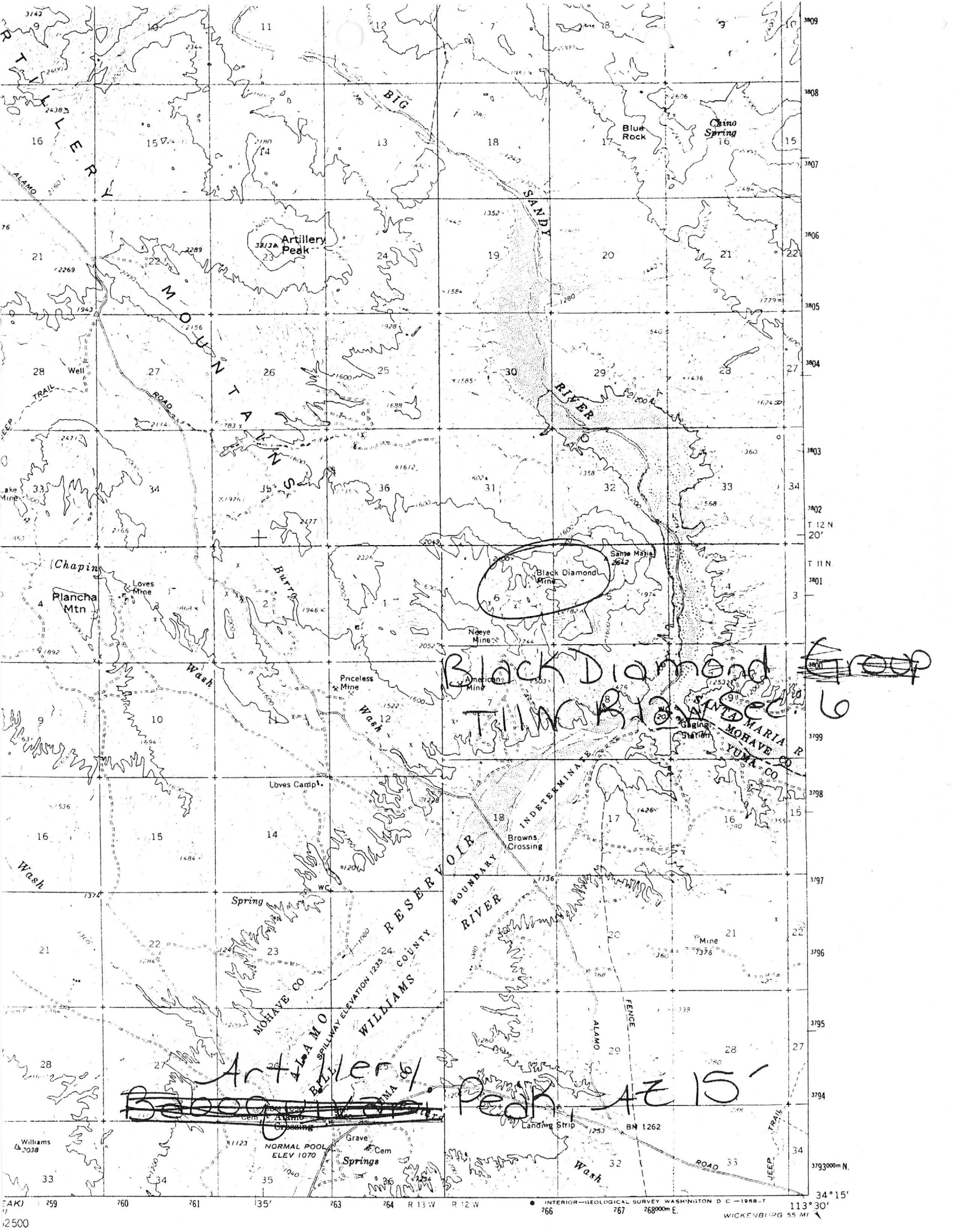
IC 7843, p. 38-40

ABM Bull. 180, p. 217

Malach, Mohave Co. Mines, 1977, p. 33

Mohave Custom Mill Proj Card File

BLM AMC File (#49658)



Name of Mine or Prospect Black Diamond	Township 11N	Range 12W	Section 6acc	Priority C
Principal Minerals: Psilomelane, Manganite	1:250,000 Quad Prescott		7.5' - 15' Quad Artillery Peak	
Associated Minerals:	District Artillery Mtn.		Principal Product Manganese	
Type of Operation: Surface: Underground	County Mohave	State AZ	Type of Deposit Sedimentary host	
Ownership or Controlling Interest: Consult current USBLM mining claim records; Lewis Peterson, Kingman, AZ, Floyd Brown and J. Robinette, Wenden, AZ (1958) ⁴				
Access: From Brown's Crossing proceed north on Alamo Road for .5 miles, turn right on unimproved road for 1.5 miles, turn left on jeep trail for 1 mile. Mine is located on topographic quadrangle.				
Structural Control or Geological Association: "Brecciated closely spaced fissures and shattered wall rocks. The voids are filled with manganese oxides which form 1.5 to 10% of the total rock mass. The deposit grades into a typical vein type deposit." ¹ "The manganese minerals consisted entirely of hard oxides, psilomelane and manganite, occurring as nodules, fissure fillings, and rims around the breccia fragments, associated mainly with calcite." ⁴				
Age of Mineralization: Tertiary				
Production History		Geochemical Analyses		
Production 135 tons ¹ Reserves greater than 1000 tons ¹ (1954) ⁴ 8600 tons at 19.3% Mn. (1955) ⁴ 600 tons at 19.0% Mn.		Average ore produced ¹ 29% Mn. reserves 10% Mn.		
References				
1) ABM (1969), Bull. 180, p. 211-225. 2) ADMR file, Phoenix, AZ. 3) Mallach (1977), p. 33. 4) Farnham & Stewart (1958), p. 38-40.				

NAME: BLACK DIAMOND ~~GROUP~~

COUNTY: MOHAVE

T 11 N R 12 W SEC. 5⁴⁶ E 1 2400' DISTRICT: ARTILLERY ¹²⁵¹² (MTS)

Artillery Pl 15

Mineralization: Mn

Geology:

Type Operation:

Production:

References: USBM I.C. 7843 p38
22 unpat. claims

Mohave Cty. Card File

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

✓ AMERICAN-BLACK DIAMOND Owens Dist., Mohave County
MINE & MILL 6 Claims

✓ MANGANESE

✓ LEWIS-PETERSON, Owner - Mines - Kingman, Ariz.
✓ FLOYD BROWN- Oper Mill - Wenden, Arizona) Lessees.
✓ JIM ROBINETTE - Supt.)

DEVELOPING 4-19-57

L.A.S.

See: MINING WORLD, December, 1958, p 58

AMERICAN - See: "MANGANESE DEPOSITS OF WESTERN ARIZONA"
 - USBM - IØ. 7843, p 51

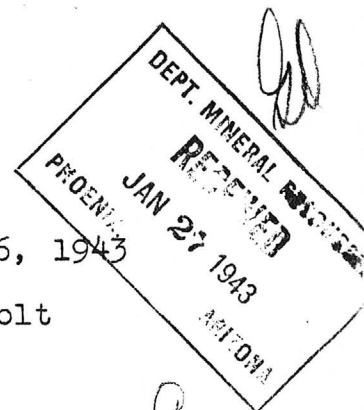
BLACK DIAMOND GROUP - See: " " p 38

See: SITTON MILL (file)

ABM Bull. 180, p. 217

6565 743 30-50

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine BLACK DIAMOND GROUP

Date January 26, 1943

District Owens, Mohave Co., Ariz.

Engineer Elgin B. Holt

Subject:

REPORT

OWNERS: George H. Lewis, Joe Lewis and Mrs. Bessie Thompson, Box 151, Kingman, Arizona.

METALS: Manganese.

LOCATION & AREA: This group, consisting of 4 mining claims, is located in the Owens Mining District, Mohave County, Arizona, at a point about five miles southeasterly from Artillery Peak, and about 7 miles easterly from Alamo Crossing, about two miles north of the Williams River. It is reached by a newly constructed road, which leaves the Alamo-Wenden road about 4 miles east of Alamo Crossing. Thence the new road extends north-east and crosses the Williams River, about 6 miles northeasterly from Alamo Crossing. Thence the road goes north two miles up Needles-Eye sand wash, from which point the property is reached by a foot path which leads up a mountain side two miles to the east.

GEOLOGY - VEINS: The country rock consists of sandstone and conglomerate, with andesite in evidence here and there. The sandstone and conglomerate, within the boundary lines of property, are traversed by a series of manganese veins, from one to 4 feet wide, striking northwest and southeast and dipping slightly northeast.

MINE WORKINGS: Consist of test pits only, from 5 to 8 feet deep on several of the veins, composed of psilomelane and pyrolusite, with bands of calcite.

CRE RESERVES: No ore reserves have as yet been developed; but as these manganese veins are traceable on the surface for long distances, there is a possibility of developing considerable milling ore, of undetermined grade. I sampled two piles of ore, containing from one to two tons each; one sample assaying 16% and the other 18% manganese. However, it is likely if this property could be developed, considerable shipping ore might be found assaying above 35% Mn. For instance, George H. Lewis furnished me with an assay certificate of a sample taken during August, 1942, by an engineer representing the Humphries Gold Corporation; said sample being taken from sorted dump material and the same assayed 35.1% Mn.

ROADS: Should operations be started at this property, it would be necessary to build a road, about 5 miles in length, northwesterly to a point where it would connect with an old road leading from Signal to Alamo, via the M. A. Hanna holdings. Such a road would cost about \$6,000 to construct, mainly by bulldozers.

VISIT: This property was inspected by me on January 15, 1943.

Elgin B. Holt,
Field Engineer.

Elgin B. Holt

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ BLACK DIAMOND
✓ AMERICAN

Date June 21, 1957

District Artillery Peak

Engineer B. J. Squire

Subject: Activity Report

LOCATION: Mines are located 2 mi N of the Bill Williams Crossing in the ridge on the west side of the Big Sandy. S6, T11N, R13W - G & SR Meridian.

ORE: The American is a vertical 40 foot wide hydrothermally altered zone in the sandstone carrying 7% Mn mine run, with excellent recovery of 39% concentrate by sink-float. Tails are running a little over 2% Mn and jigs and tables recover a 44% concentrate from the sands. Final blend is + 40% Mn concentrate.

The Black Diamond was operated as an underground vein carrying + 15% Mn across 8 feet. It has been opened as an open pit carrying + 12% Mn across 25 feet. Ore tends to run high barite on the hanging wall and recovery by sink float is lowered due to presence of sooty wad. Mine run grade is commercial under present conditions and sink float and jigging recover a + 40% product.

MILL: Twenty ton per hour HMS plant with jigs and tables.

OPERATOR: Floyd Brown & Dale Robinette - leasors from Sitton Minerals & Development Co.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Black Diamond [✓]Manganese

Date June 2, 1953

District Artillery Peak

Engineer Geo. F. Reed

Subject: Recent Developments

Note: This property has been covered by earlier reports, now on file.

Present Owners: [✓]

Claude Neal and Mark [✓]Hall, mail receivable at Kingman, Arizona.

Present Operators: [✓]

Sevier Minerals, General Delivery, Kingman, c/o Scott Ellis, Mgr.
Phone Black 305.

Recent History: [✓]

F.A. Sitton, the well known Uranium operator had the property under lease and option until a few months ago. He did a few hundred feet of adit work and sank a shaft about 80 feet and did some drifting. From this work, he produced some 500 tons of ore assaying about 21% manganese. The main vein on which he did this work as well as much stripping, is about 12 feet wide. It dips about 60 degrees to the NE. Wall rock is mainly sandstone and gangue is calcite. The manganese is largely hard Psilomelane and mills well according to gov't reports, giving over 90% recovery. Mr. Sitton quit his operation because he thought it looked unprofitable to operate.

Present Operation: [✓]

Sevier Minerals, also a Uranium Operator in Utah, plans to build a jigging mill. They are now grading the site for the mill on the Bill Williams River about $2\frac{1}{2}$ miles from the mine. They have at the mine and in Kingman the following new equipment:

Grizzly to precede jaw crusher

Kue Ken 12 by 24 jaw crusher

Kue Ken 18 inch cone crusher

Conveyors & screen in closed circuit with secondary crusher

Denver Mineral Jig Duplex 24 by 36 inches.

It is thought that the ore will be reduced to about $\frac{3}{16}$ or $\frac{1}{4}$ inch and jigged at possibly 20 tons per hour with this outfit. Custom ore as well as Black Diamond Ore may be ~~trated~~ treated.

No work to speak of has been done at the mine since Sitton left. First ore is expected to be produced largely from open pit work on the 12 foot vein. Grade is expected to be about 12% manganese, with 40% concentrates being produced.

George F. Reed

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Black Diamond

Date Sept. 14, 1951

District Map 8-13 Mohave Co.

Engineer Mark Gemmill

Subject: Manganese

The following information was given to me by Mr. Geo. Farley who together with Claude Neal and Mark Hall, all of Kingman now own the property.

They are starting production now and will ship ore to the mill at Aguila. He stated that the ore will run from 15 to 20 % Manganese, and although he could not tell me the form in which mineral occurs, he said that tests had shown that it would concentrate. They will start on a production of about 30 tons daily and expect to increase tonnage if the operation proves to be profitable. I expect to call at the Aguila Mill soon and will see how it is working out.