



CONTACT INFORMATION

Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
<http://www.azgs.az.gov>
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

01/19/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: JUMPING JACK

ALTERNATE NAMES:

GRAHAM COUNTY MILS NUMBER: 292

LOCATION: TOWNSHIP 6 S RANGE 24 E SECTION 15 QUARTER W2
LATITUDE: N 32DEG 55MIN 00SEC LONGITUDE: W 109DEG 52MIN 45SEC
TOPO MAP NAME: THATCHER - 15 MIN

CURRENT STATUS: ACTIVE

COMMODITY:
IRON MAGNETITE

BIBLIOGRAPHY:
ADMMR JUMPING JACK FILE

JUMPING JACK MINE

GRAHAM COUNTY
T6S R24E Sec 23, 26

Jumping Jack #64-81 (AMC #176283 - AMC #176300)

MILS Graham County Index #292

JUMPING JACK MINE

GRAHAM COUNTY

MG WR 10/14/83: It is reported that the Jumping Jack mine (Graham Co.) has been shut down.

KAP WR 2/24/84: A Mr. W. H. Mullin of Pima Mining Co. reported he has a group of mining claims, the Jumping Jack (AMC #176283 AMC #176300) in Sec 23 and 26, T6S R24E. He has obtained titanium assays as high as 4% from aluvial material. Further, he has contacted some specialty steel companies in an effort to find a market for a concentrated product he might produce. He requested assistance in obtaining information on uses and standards for titaniferous iron ores. Contact was made with the U. S. Bureau of Mines who will contact him with some information.

KAP WR 8/3/84: Provided information on the W. W. Mullin iron sands mining operation of Pima Mining Co. to the Graham County Recorder. A local (Graham Co) business association had heard a rumor that a mining operation was to start near Pima and would employ 40 persons.

NJN WR 11/21/86: Ron Loomis, mining engineer, BLM Safford Office, reported that the Mullins are still operating the Jumping Jack (file) Graham County. When they operate they process about 50 tons a day. They screen to $-\frac{1}{2}$ inch at the pit and then process through a dry magnetic drum concentrate at their plant. The material at the pit runs 2 - 3% magnetite.

NJN WR 5/13/88: Jack Qual (card) reported that the phone number of Bill Mullin, Pima Mining Company, operators of the Jumping Jack Mine (file) Gila County has been disconnected with no further information available. Directory assistance has no number for Bill Mullin.

MINE REPORT - TELEPHONE CALL

MINE: Jumping Jack

COUNTY: Graham T6S R24E Sec 7

MINING ENGINEER: Nyal J. Niemuth

DATE: May 11, 1984

W. H. Mullins of Pima Mining Co. (c) P O Box 741, Pima, Arizona, ph: 485-9327 called. He reported that the Jumping Jack Mine (file) AKA Little Bill, Graham County consist of 1900 acres of claims. Their current mining activities are centered in Sec 7, T6S R23E where they have a pit 60' deep. The deposit is 2 miles south of the present Gila River Channel and consists of about 10% magnetite. They operate a wet magnetic separation process with a mill that utilizes all hydraulic motors. Their capacity is 60 - 80 tons per day of magnetite. The magnetite runs 160 - 180 lb/Cu² which is 20 - 40 lbs higher than normal due to a higher content of Ti and Ni. They currently are supplying black sands to the Nevada test center. They would like to supply other markets. One they are currently investigating is Rogue Steel in Michigan. That company is experimenting with a blend of their magnetite to see if it will produce a more rust resistant steel. Mr. Mullins stated the family owned business has been in operation for four years. He invited the Department's engineers to visit the operation when we are next in the area.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Mineral Building, Fairgrounds

Phoenix, Arizona

MILS #292

New MILS listing

1. Information from: Mr. Bill Mullins (Phone: 485-9327)
Address: P.O. Box 741, Pima, AZ 85543
2. Mine: JUMPING JACK 3. No. of Claims - Patented _____
(Graham Co.) Unpatented Jumping Jack 1-16
4. Location: Northwest of Pima and south of Highway 70 (see Thatcher 15' Quad)
5. Sec 15 (W $\frac{1}{2}$) Tp 6S Range 24E 6. Mining District _____
7. Owner: Pima Mining Co.
8. Address: P.O. Box 741, Pima, AZ 85543
9. Operating Co.: Same
10. Address: _____
11. Owner/Operator: Mr. Bill Mullins
~~President~~
12. Gen. Mgr.: _____
13. Principal Metals: Magnetite 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down ☐ (b) Assessment work ☐ (c) Exploration ☐
(d) Production ☒ (e) Rate 20 tpd.
17. New Work Planned: Still improving the operation. Plan to increase production, with a second shift, to 40 tpd. Would like to eventually enlarge entire operation to 3500-4000 tons per month.
18. Misl. Notes: Mr. Mullins reports he is mining 3 major seams of black sands containing from 6 to 20% magnetite. The first stage of concentration occurs at the mine site; a magnetic head pulley concentrates the magnetite to about 90%. Mullins trucks this concentrate to a final concentrating site (SE $\frac{1}{4}$, Sec. 36, T6S, R24E?) 3-4 miles from the mine. The 90% magnetite concentrate is passed over a vibrating magnet, yielding a final concentrate of 95 to 97.5% magnetite. The entire operation is dry.
The bulk of the final product is 80-100 mesh. Some of it is sold as a weighting medium in underground nuclear tests and some is sold as a sand blasting material. Most of it goes to a Kentucky company that uses it as a coal washing medium (heavy liquid separation); apparently the coal company must grind the concentrate to a finer mesh before using.

Date: June 16, 1982

(Signature)

(Field Engineer)

Jumping Jack magnetite
Graham Co. ^{sands}

Mining Notice & Plot

This operation is to take place on "Jumping Jack Claims." Jack Delphrey - P.O. Box 124 Paintsville Kentucky being the owner.

The main activities purposed is for the mining of magnetite, which would pertain to removal of the placer sand; running it over a magnetic head pulley, and removing the magnetite. This land is basically flat with small washes in the area. All small washes and some of the alluvial flat lands, will probably be mined.

This operation will affect all 16 claims, and will include Uninstalling one main haul road, Several short trams, conveyors, and loaders, trucks and dozer will be used. All mining activities will take place on section 15, Township 6S, Range 24E. We plan to start as soon as we get notification from B. L. M.

We will try and preserve all we can, of all trees and natural beauty of the land. During operations we will avoid unnecessary degradation. Refer to map for the description of standards to operation.

- Page 2 -

We will keep roads as near contour as possible and minimize cuts and fills. Disposal of tailings and waste will be confined to the subject mining claims. No top soil on properties will be saved.

Erosion control procedures will be implemented on roads (existing and constructed) and on sites disturbed as determined by the authorized officer. There will also be no toxic waste so toxic waste control will not be applicable. Surface reshaping will be done as deemed by authorized officers. Possible revegetation is not applicable. To my knowledge fish and wildlife habitat rehabilitation will not be required. Notification from operator to BLM for and inspection of rehabilitation will be given in advance of terminating the operations. Operator other than owner Bobby J. Pelphrey.

signed.

Bobby J. Pelphrey

