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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MAGNA-BLAST LTD.

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 615

LOCATION: TOWNSHIP 9 S RANGE 12 E SECTION 2 QUARTER C
LATITUDE: N 32DEG 40MIN 45SEC LONGITUDE: W 111DEG 04MIN 10SEC
TOPO MAP NAME: TORTOLITA MTS - 15 MIN

CURRENT STATUS: PAST PRODUCER

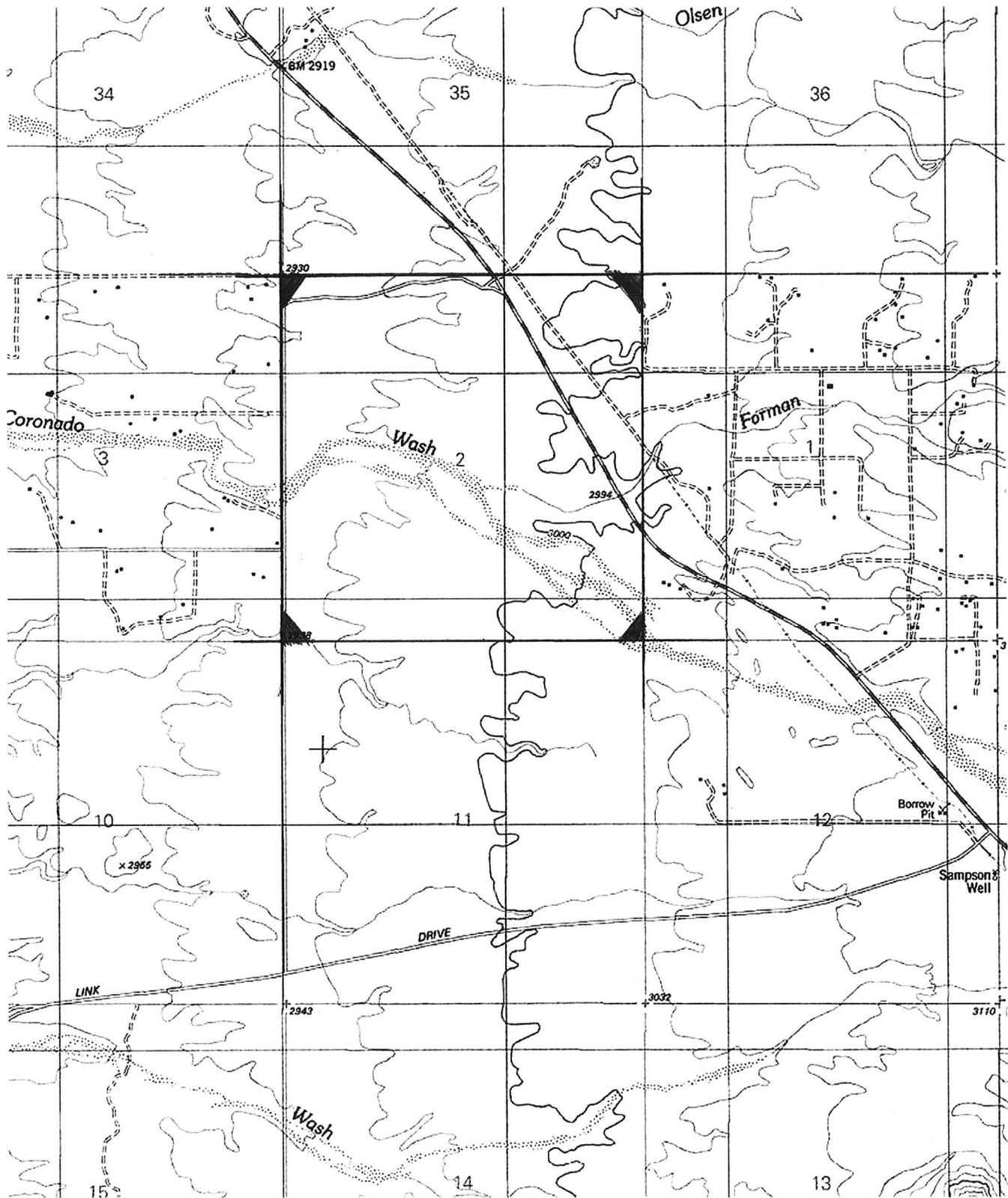
COMMODITY:

SAND & GRAVEL
IRON MAGNETITE

BIBLIOGRAPHY:

ADMMR MAGNA BLAST FILE

Tortolita Mts. - 15 min



N 32° 40' 45" W 111 04' 10"

Magna - Blast LTD.

MAGNA-BLAST LTD.

PINAL COUNTY

Magna-Blast are working 4 men at their magnetite sand deposit (near Omega property) west of the highway on Durham Wash. They are producing iron for abrasives. Located in Pinal County in T8S, R11 & 13 E.
James Concannon Mgr. GWI 9-23-65

Mine visit to Magna-Blast mine south of Copper Creek - new activity - no one around.
GWI WR 1-28-67

Mine visit to Magna-Blast Mine - some activity - no one around. GWI WR 4-1-67

Mine visit to Magna Mine near Sombrero Butte, a little activity - no one around.
GWI WR 7-1-67

FILED
MAR 30 1965

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

RECEIVED
MAR 11 1965
DEPT. MINERAL RESOURCES
TUCSON, ARIZONA

Mine 'Magna -Blast Ltd Date Jan. 28 & Feb. 1965
District Owl Head District, Pinal Co. Engineer Axel L. Johnson
Subject: Mine Visit. Information from Larry Martin, Foreman, on Feb. 11. ---Visit on 1/28.

Location At Cadillac (Coronado) Wash, and Highway # 80, and near mile post 102 -- 11 miles NW of Oracle Junction.

Owners & Operators 'Magna-Blast, Ltd., 636 W. Lester, Tucson, Ariz. -- Tel. 624-4143
James N. Concannon, 2006 E. Spring St., Tucson --- principal owner
Larry Martin, 636 W. Lester, Tucson --- foreman

Principal Minerals 'Magnetite sands.

Present Mining Activity Mining of surface magnetite sands in and in the vicinity of Cadillac Wash, and concentrating same by magnetic separation in their plant, located adjacent to their excavations. 2 men working part time.

Ore Values Mr. Martin claims the sands being concentrated runs 10 % in Magnetite. Writer is of the opinion, however, that it would be about the same as at Omega.

Milling Facilities The following milling equipment is in use: (a) 5 ton ore bin, covered by 1 1/2 in. screen; (b) bucket conveyor; (c) 36" x 12' trommel, driven by a small gasoline engine; (d) magnetic separator, 12" dia. x 15 in. width; (e) bucket conveyor, from magnetic separator to screens; (f) triple deck vibrating screen, separating concentrates into 3 different sizes (g) 3 oil drums below same, with spigots; (h) belt conveyor, 18" x 20', taking OS from trommel and rejects from magnetic separator to a waste dump.

Flow sheet is as viz:

- (1) Ore is dumped into 5 ton ore bin, with OS screened out.
- (2) Ore is conveyed by means of bucket conveyor and dumps into trommel.
- (3) OS from trommel drops on the magnetic separator, and OS from trommel goes on the belt conveyor which conveys it to the waste dump.
- (4) Magnetic separator removes the magnetic iron from the ore and drops it into a bucket conveyor, while the rejects from the magnetic separator drops on the belt conveyor which conveys it to the waste dump.
- (5) Bucket conveyor takes the magnetic product and drops same over a triple deck vibrating screen.
- (6) The 3 deck vibrating screen separates the ore into 3 sizes --- viz. ~~xxx~~ minus 10 plus 20; minus 20 plus 40; and minus 40, dropping the ore into 3 oil drums, each equipped with a spigot.

Mr. Martin estimates the capacity of the concentrating plant as 1 ton per hour.

At the time of the engineer's visit, the plant was idle, with no one working. Mr. Martin said it was shut down on account of wet weather. However, the stockpile of concentrated material would indicate that they had enough on hand.

The stockpiled material on hand consisted of 36 -- 50 lb. paper bags, marked "minus 10 plus 20", and 40 -- 50 lb. paper bags marked "minus 20 plus 40".

Sale of Product Mr. Martin states that the material is prepared for use in sandblasting, either concrete, masonry, brick, or iron pipes. He said that the company is now in the process of negotiating sales of the product to companies, who are dealers of sandblasting products.

Remarks The writer has been unable to contact the principal owner, James N. Concannon, to get his story of the operation. It is evident that he is out of town.

Sovereign Iron Ore and Steel Projects in Arizona

Black Mountain mine and pellet plant and Coolidge steel facilities

In a special report to stockholders, C. M. Wood, chairman, states that Sovereign Industries Inc. has acquired the assets of the Arkota companies through an exchange of 135,375 shares of stock and for \$85,000 cash. As a result, complete ownership of mining rights has been obtained on 140 square miles of the Black Mountain iron ore deposits in Pinal county of southern Arizona as well as mining machinery and metallurgical facilities and 80 acres at Coolidge, Ariz.

At East Greenville, Pa., Sovereign conducted successfully the smelting of its pellets for the production of pig iron. This test established that the alternative metallized pellet process is the most economical way to extract iron and steel from Black Mountain iron ore.

Sovereign plans to operate the mining equipment at Black Mountain and the hydrogen plant at Coolidge together with a new reduction furnace for the output initially of 20,000 tons of sponge iron granules

per year for sale to mining companies to precipitate cement copper. In Aug. 1968, this plant is scheduled to commence operation. The same facility also will be capable of producing up to 20 million pounds of metallurgical grade iron powder annually.

Sovereign also plans to operate its electric steelmaking furnace at Coolidge and transfer to this site a small rolling mill from Philadelphia, Pa., to produce rolled steel bars and forged steel products. The plant, which initially will consume scrap and later metallized pellets, will have an annual capacity of 25,000 tons, which can be expanded later to 75,000 tons of rolled or forged products. In July 1968, this plant is expected to start operating.

During 1969, Sovereign anticipates the construction of a 300-ton per day plant to produce metallized pellets at the Black Mountain mine. This facility will permit the output of 75,000 tons of rolled and forged steel products per year from Black

Mountain iron ore, local coal and low cost gas from a pipeline crossing the property. After the pellet plant is operating, the Coolidge facility would be converted to a small foundry or pipe spinning plant.

2 TO 5,000,000-T.P.Y. PELLET PLANT

Sovereign has retained Dravo Corp. to develop engineering and economic data for a plant to produce 2 to 5 million tons of oxide pellets per year for shipment by unit train to western and gulf steel mills as well as to supply part of the Japanese requirement. An agreement has been signed with Hugo Neu Corp. to represent Sovereign pellets and concentrate in the Japanese market. During late November and early December, a Japanese technical mission representing seven mills was expected to visit the Black Mountain deposit. A firm offering of 50 million tons of pellets over a 10-year period has been made to the Japanese mills.



\$15 Million Sought In Mining Suit

Peter O'Crofty, onetime actor and Tucson newsman, filed a \$15,500,000 lawsuit in Superior Court yesterday, charging that he had been deprived of his rightful interest in iron ore deposits being developed in Pinal county.

Named defendants were Libton Industries Inc., Westchester Mining Co., Sovereign Resources Inc., Magna-Blast Inc., C. M. Wood, J. W. Martin, Sidney Blair, Sander Simon, W. E. Parfitt, William S. Young, John F. Ledbetter, 10 John Does and five John Doe corporations.

The bulky complaint, prepared by Attorney Richard L. Keefe, asks \$10,000,000 compensatory damages and \$5,000,000 in punitive damages.

O'Crofty claimed that he had entered a pre-incorporation agreement with other parties giving him a substantial share in the profits of a new corporation which was to be formed in tie together several properties in the mining area, but that the agreement was violated and he was not included.

The complaint alleges that the overall value of the mining area is \$30,000,000.

O'Crofty also has a \$1,500,000 lawsuit pending in U.S. District Court against many of the same defendants, and pertaining to the same transaction.

Page 4 Section A ARIZ DAILY STAR WED JUNE 22 66

Enlargement

next page.

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Page 4 Section A ARIZ DAILY STAR WED JUNE 22 66