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12/19/96

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: ARAVAIPA NITRATE DEPOSITS

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 386

LOCATION: TOWNSHIP 6 S RANGE 18 E SECTION 24 QUARTER E2
LATITUDE: N 32DEG 54MIN 00SEC LONGITUDE: W 110DEG 27MIN 06SEC
TOPO MAP NAME: BOOGER CANYON - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
NITROGEN

BIBLIOGRAPHY:
ADMMR ARAVAIPA NITRATE DEPOSITS FILE

ARAVAIPA NITRATE DEPOSITS

REFERENCES

PINAL COUNTY
ARAVAIPA DIST.
T6S R18E Sec. 24

Pinal County MILS Index #386

Booger Canyon 7.5' Topo (included in file)

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ Aravaipa Nitrate Deposits Date June 11, 1955
District Aravaipa District, Pinal Co. Engineer Axel L. Johnson
Subject: Field Engineer's Report. Information from E. L. Osborne & M. D. Obele.

Location In Aravaipa Canyon, about 13 miles north-west of Klondyke, near the Graham-Pinal County line.

Number of Claims 1370 acres of land has been leased from the Federal government, arrangements having been made with the Bureau of Land Management, Phoenix, Ariz. It is a 20 year lease, providing for a 10 % royalty, with option to renew the lease. Land covers portions of 4 sections, and is described by metes and bounds.

Lessees and Operators ✓ American Mineral Development, 105 1/2 E. Pikes Peak, Colorado Springs, Colorado. This is a holding and exploration company.

Officers ✓ E. L. Osborne, Exploration Director -----address as above.
 ✓ M. D. Obele, Production Director -----address as above.
 The Associated Engineers, Denver, Colorado has been doing the engineering work on a contract basis. A corporation will be formed to do the mining & milling.

Principal Minerals Rhyolite rock, containing about 6 % of Sodium Nitrate, and about 6 % of Magnesium oxide to be used in the manufacture of fertilizers.

Number of Men Employed None at present. Operators are looking for a mill site.

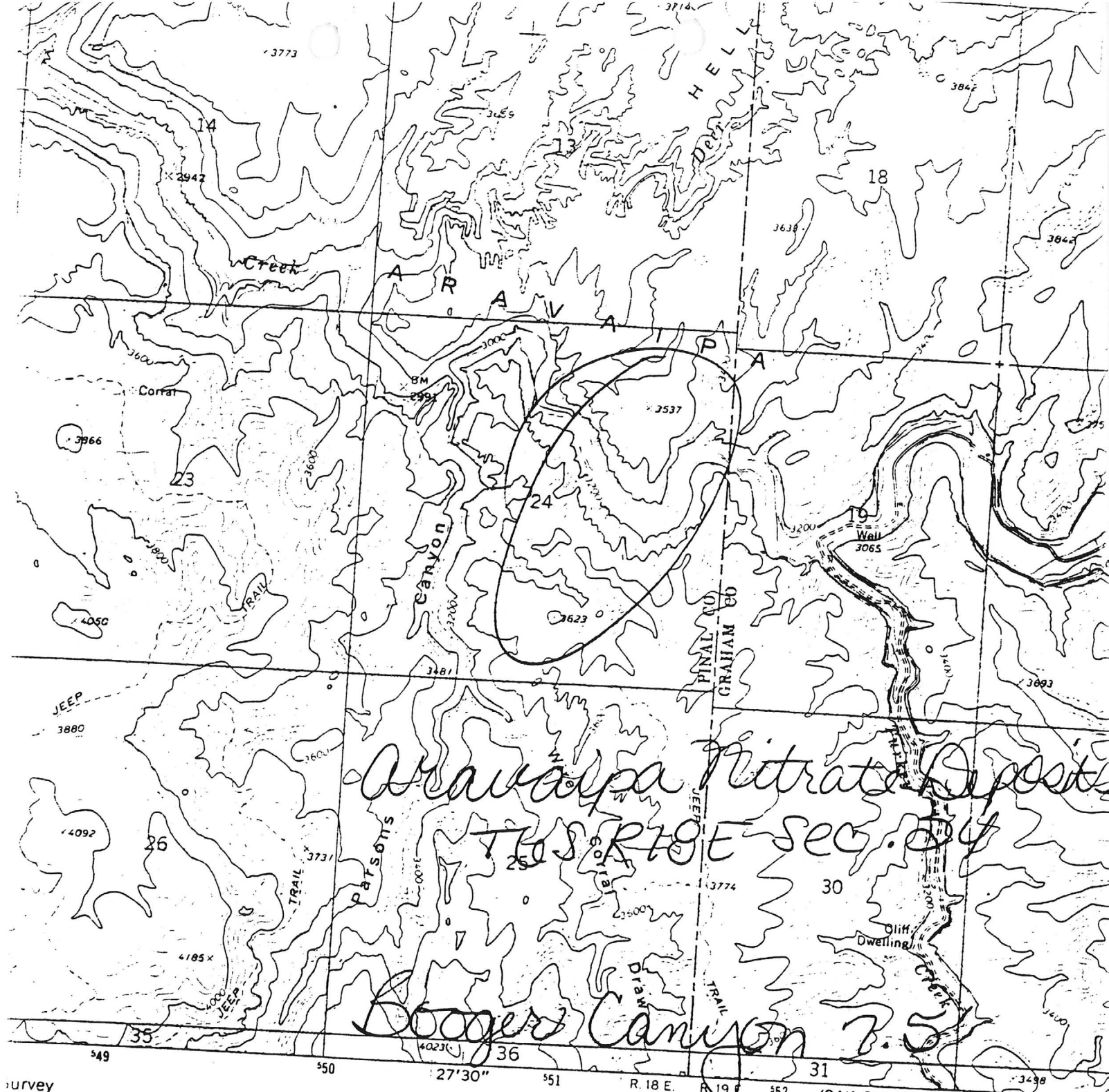
Ore Values Rhyolite rock said by the representatives of American Mineral Development to contain 6 % of Sodium Nitrate and 6 % of Magnesium oxide.

Ore in Sight No publication of figures by officials.

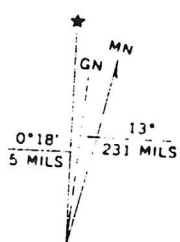
Milling and Marketing Facilities Operators plan to build 4.6 miles of road, truck the nitrate rock to Winkelman and ship the rock by rail to Tucson, where they plan to erect a leaching plant for concentrating ~~and crushing~~ the material for sale as a fertilizer. If no suitable site can be found in Tucson, they will erect the crushing and leaching plant at some suitable site near the deposits.

Present Mine Workings Considerable exploration work has been done. This includes two -- 60 ft. ~~shafts~~ tunnels, and the sampling of about 4 lineal miles of rock formation in Aravaipa Canyon.

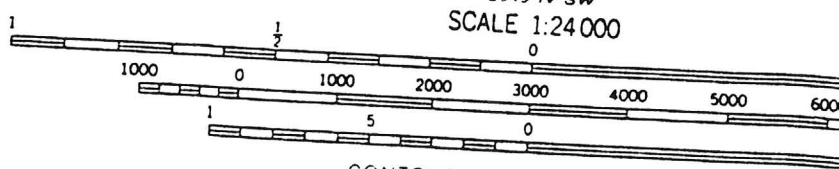
Proposed Plans (1) Building of 4.6 miles of road in Aravaipa Canyon.
 (2) Building of a crushing, screening, and leaching plant, preferably at a site in or near Tucson, near the S. P. Railway and the Santa Cruz River. The capacity of the proposed plant will be 100 tons per day to start with----to be increased gradually to 1000 tons per day in 2 years. If no suitable site can be found in Tucson, they will then erect the plant at or near the deposits in Aravaipa Canyon.
 (3) Mine the rock by open pit methods, a separate corporation to be formed to do the mining, and the milling.
 (4) To market the fertilizer in Arizona, New Mexico, Texas, and Southern California.



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UTM GRID AND 1972 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



CONTOUR INTERVAL 40 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225. OR RESTORE
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON