



CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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07/10/2000

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: WHITE HOUSE GROUP

ALTERNATE NAMES:

MARTIN BRUCITE
MAG GROUP
RMC CLAIMS
TOPOCK BRUCITE

MOHAVE COUNTY MILS NUMBER: 18B

LOCATION: TOWNSHIP 19 N RANGE 20 W SECTION 7 QUARTER SE
LATITUDE: N 35DEG 02MIN 34SEC LONGITUDE: W 114DEG 26MIN 17SEC
TOPO MAP NAME: OATMAN - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

MAGNESIUM BRUCITE

BIBLIOGRAPHY:

ADMMR WHITE HOUSE GROUP FILE
ADMMR TOPOCK BRUCITE CRUTCHFIELD FILE
ADMMR GENERAL SUBJECTS "M" FILE
ERICKSEN, G.E. "MINERAL & WATER RESOURCES AZ
AZBM BULL 180, P 322-323; 1969
ADMMR AZ. INDUSTRIAL MINERALS RPT. NO. 2, P 43
& ADMMR MINE FILE LIST ADDITIONAL
OCCURRENCES IN SEC. 8, 17, 18, 20

WHITE HOUSE GROUP

MOHAVE

T19N R20W Sec 7

ABM Bull. 180, p. 323

*Keigra Mining Project
1 claim map*

from: W.H. Crutchfield Jr. Mohave County Prospect Assessment Compilation (post 1982)

Name of Mine or Prospect Mag Group	Township 19N	Range 20W	Section 8 ccb 8 ccc	Priority B
Principal Minerals: Brucite	1:250,000 Quad Kingman		7.5' - 15' Quad Oatman	
Associated Minerals:	District Oatman		Principal Product Brucite	
Type of Operation:	County Mohave	State Arizona	Type of Deposit	

Ownership or Controlling Interest:

Access: General locality; Oatman, Arizona area.

Structural Control or Geological Association:
 "Layers as much as 30 feet thick, resting on Alcyone Trachyte and generally overlain by Oatman Andesite. Layers occur at diverse altitudes with dips horizontal to 70° and parallel to enclosing volcanics."¹
 "More specifically Miocene Age."³

Age of Mineralization:

Production History	Geochemical Analyses			
	Sample I.D. ⁴	Lab	Au	Ag
	81BB1215-1A	U oz/ton	None	None
		C ppm	<.02	<.3
	1B	U	0.010	None
		C	.26	1.0
	1C	U	None	None
		C	.02	<.3
	1D	U	None	None
		C	<.02	<.3
	1E	U	Trace	None
		C	.02	<.3
	1F	U	None	None
		C	<.02	.3
	1G	U	None	None
		C	<.02	.3
	1H	U	None	None
		C	<.02	.3

References

- 1) ABM (1969) Bull. 180. p. 320-324
- 2) Elevatorski (1977) p. 43
- 3) Liggett and Childs (1974) 28 p.
- 4) Exploration Research Associates Incorporated, 1981, Reconnaissance geochemical sampling, 15 December 1981.

DEPT. MINERAL SERVICES
MAY 17 1943
P.L.C. ARIZONA

May 14, 1943

BRUCITE

P. O. Box 188,
Kingman, Arizona.

Mr. B. L. Matthews,
610 South Main St.,
Los Angeles, Calif.

Dear Mr. Matthews:

Attention is called to your letter of May 11th, in which you ask for information concerning the Brucite property, known as the WHITE HOUSE GROUP, located near Oatman, Arizona.

This property belongs to H. F. Heather and R. A. Martin, Box 168, Oatman, Arizona.

I visited this property during March, of the present year. There are four major outcroppings, or lenses: One 40 feet thick by 150 feet long; another 20 feet thick by 1000 feet long; another 15 feet thick by 750 feet long; and the last, and main one, is 20 feet thick by 500 feet long. These lenses occur in a zone about 4500 feet long, and in a series of bedded strata between shale and andesite. Strike is northeast to southwest and dip 45 deg. S. E.

I took no samples myself; but Mr. Heather furnished me with an analysis by Ed. Eisenhauer, whom you know, from a 150 pound sample from the main lens mentioned and which he had analyzed by Eisenhauer. The following is copied from the corresponding assay certificate:

Fe2O3	-----	0.88%
Al2O3	-----	1.04
MnO	-----	2.33
CaO	-----	0.15
MgO	-----	62.57
Cl	-----	Tr
SO3	-----	"
SiO2	-----	1.76
Loss by ignition	-----	31.10
Total	-----	99.83

As I did not sample this property, I cannot vouch for the above analysis. Neither am I familiar with Brucite ~~or~~ magnesite deposits. All I can say is that this deposit is quite large; but needs a thorough examination to determine its value.

cc - J. S. Coupal

Very sincerely yours, Elgin B. Holt.

1999

**Applied
Chemical
Magnesias
Corporation**

Bob McCreless
Chief Executive Officer

Corporate Offices
P.O. Box 270941
Fort Collins, CO
USA 80527
Phone: 970-223-7790
Fax: 970-223-7550

The Company

Applied Chemical Magnesias Corporation (ACM) was founded in 1998 as a spin-off from RMc Industries, Inc., which has been producing a wide variety of specialty magnesium hydroxide fillers for fire-retardant polymer systems for over twelve (12) years.

ACM currently produces high-purity magnesium hydroxide powders and slurries nation-wide. These products can be employed for the following uses:

- acid neutralization
- odor control
- wastewater treatment
- heavy-metals removal
- sludge volume reduction
- pH buffer

In May-June 1999, ACM will open its own \$2 million milling facility in Bullhead City, Arizona which will have capacity to produce 30,000 tons per year of various magnesium oxide/hydroxide products. ACM's mine operations — a short distance from the plant under construction — will provide a low-cost, high-purity source of natural magnesium hydroxide for processing into specialized grades.

Company personnel are committed to meeting the specific needs of our clients — *customer satisfaction through tailored technical products* — and we have new ideas and techniques that can help our customers' "bottom-line".

Products

- HyMag-94 a low-cost, high-purity (dry) natural magnesium hydroxide powder
- HyMag-94G granular magnesium hydroxides for water treatment with various grades
- ACM-46 magnesium hydroxide slurry (46% solids)

Corporate Office

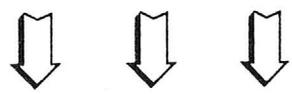
- Mailing Address: P.O. Box 270941
Fort Collins, CO 80527
- Shipping Address: 760 Whalers Way
Bldg. A-210
Fort Collins, CO 80525
- Phone: 970-223-7790 • 800-397-1210
- Fax: 970-223-7550
- E-mail: acmcorp@magnesias.com
- Website: www.magnesias.com
- Owner & Chief
Operating Officer: Alesia McCreless

Milling Facility

- Mailing Address: P.O. Box 22303
Bullhead City, AZ 86439
- Shipping Address: Plata Coleta & Loma Linda Dr.
Bullhead City, AZ 86442
- Phone: 520-763-0953
- Fax: 520-763-5868



- **To Place Orders**
- **To Request Samples**
- **Product Information**
- **Technical Information**



Mail:
Applied Chemical Magnesias
P.O. Box 270941
Fort Collins, CO 80527

Phone:
970-223-7790
800-397-1210

Fax:
970-223-7550

E-mail:
acmcorp@magnesias.com

The logo for Applied Chemical Magnesias Corp. It features a stylized triangle inside a circle, with the text "Applied Chemical Magnesias Corp." to its right.

The Company

And

Its Products

FVDS.18

Department of Mines and Mineral Resources
MINE AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 2

COMMODITIES: **Brucite or Magnesite**

MILS ID No.: **Mohave 18B**

DATE: **April 6, 1989**

ENGINEER: **Ken Phillips and Nyal Niemuth**

INFORMATION FROM: **Field visit**

PROPERTY SUMMARY

I. MINE NAME: **White House** OTHER POSSIBLE NAMES **BR Claims**
INCL. ANY CLAIM NAMES NOTED:

II. LOCATION: **T 19W R 20W SEC(S): SW,SW 8 MINE DISTRICT**

ELEV.: 2320 COUNTY Mohave TOPO QUAD. Oatman 7.5

DIRECTIONS: In Times Gulch - see Topo

MAP ATTACHED YES

III. OWNERSHIP: NAME **RMC Minerals** PHONE:

ADDRESS: 12801 Central Expressway, Suite 460, Dallas, Texas 75243

COMPANY NAME IF ANY:

PERTINENT PEOPLE: Bob Mc Creluss

IV. PROPERTY AND HOLDINGS: **BR Mining claims located 1-10-88**

V. PAST PRODUCTION-NOTED, KNOWN, PROBABLE, UNKNOWN, NONE: **Possibly**

VI. CURRENT STATUS: **Prospect**

VII. WORKINGS: **Crosscut drift, to vein**

Sheet 2 of 2

VIII GEOLOGY AND MINERALOGY: DEPOSIT TYPE: **Vein of Brucite**

LENGTH: **800'** WIDTH **1-20'** VEIN STRIKE **N35 deg E** DIP **SE45"**

HOST ROCK: **Porphyritic andesite**

ECONOMIC MINERALS: **Brucite or Magnesite**

COMMENTS: **Hanging wall propolitically altered, sharp but irregular contact with vein.**

IX. EQUIPMENT ON SIGHT: **None**

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? **ADMMR 28049 from dump mined UG.**
Select samples of brucite and/or magnesite. Light greenish gray massive when fresh, weathers when to white.
ADMMR 28050 specimens of brucite/ magnesite/yellow green mineral ??

XI. REFERENCES AND REMARKS:

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Mine file: WHITE HOUSE GROUP
2. Mine name if different from above: MAG
3. County: Mohave
4. Information from: Bob McCreless

Company: RMC Minerals

Address: 111 E. Drake Road, Suite 7104

Fort Collins, Colorado 80525

Phone: 303-233-7790

5. Summary of information received, comments, etc.:

Mr. McCreless reported his new address and phone number above (RMC Minerals card has been changed).

He has completed extensive testing and deposit evaluation of the brucite on the claims and is certain it will work in his proprietary formulation.

Very fine grinding and perhaps beneficiation will be required if the material is to be used.

Date: August 24, 1989

Ken A. Phillips, Chief Engineer

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Bob McCreless

Company: RMC Minerals

Address: 12801 N. Central Expressway #460

Dallas, Texas 75243

2. Phone: (214) 404-1106

3. ~~Mine:~~

4. ADMMR Mine File: WHITE HOUSE GROUP

5. County: Mohave

6. Summary of information received, comments, etc.:

Mr. McCreless reports he has staked mining claims to cover the brucite occurrence. He has visited the property and hired Jim Woods, a geologist from Kingman, to map and sample the property. Efforts continue to locate the geologist who directed the drilling done in the 40's (?) in order to confirm they drill indicated resources. Preliminary analysis indicates the material may be acceptable to fill their need for natural brucite.

RMc Minerals Co.

Bob McCreless
Chief Executive Officer

12801 N. Central Expwy.
Suite 460
Dallas, Texas 75243

Ofc. 214-404-1106
Fax 214-490-7488

Date: September 23, 1988

Nyal J. Niemuth, Mining Engineer

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY (SHORT FORM)

May be Reproduced

May Be Inserted Into Mine File Or Added To "Rumor Page"

1. Information from: Bob McCreless, RMC Minerals

Address: 12801 N. Central Expressway, Suite 460, Dallas, Texas

2. Phone:

3. Mine: MAG

4. ADMMR Mine File: White House Group

5. County: Mohave

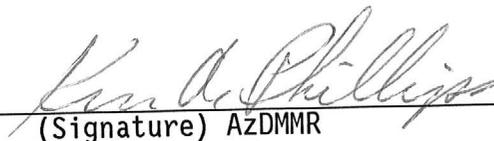
6. MILS Number: 18B

7. Operational Status:

8. Summary of information received, comments, etc.:

Bob McCreless reported his firm is interested in acquiring good natural brucite. He has visited the MAG property and tentatively likes the brucite. He is trying to obtain information on the results of drilling done many years ago.

Date: Sept. 15, 1988


(Signature) AZDMMR

WHITE HOUSE GROUP

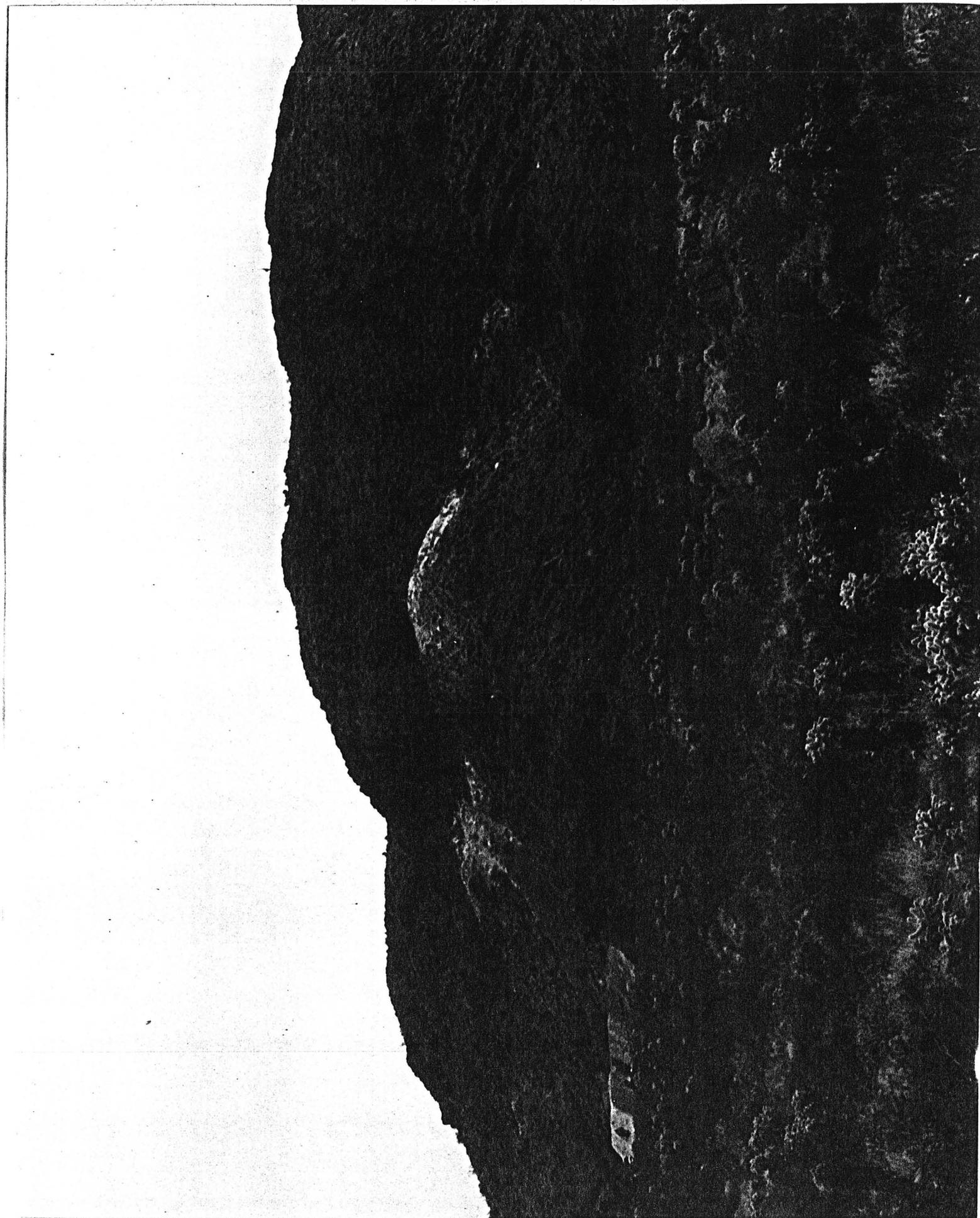
MOHAVE COUNTY

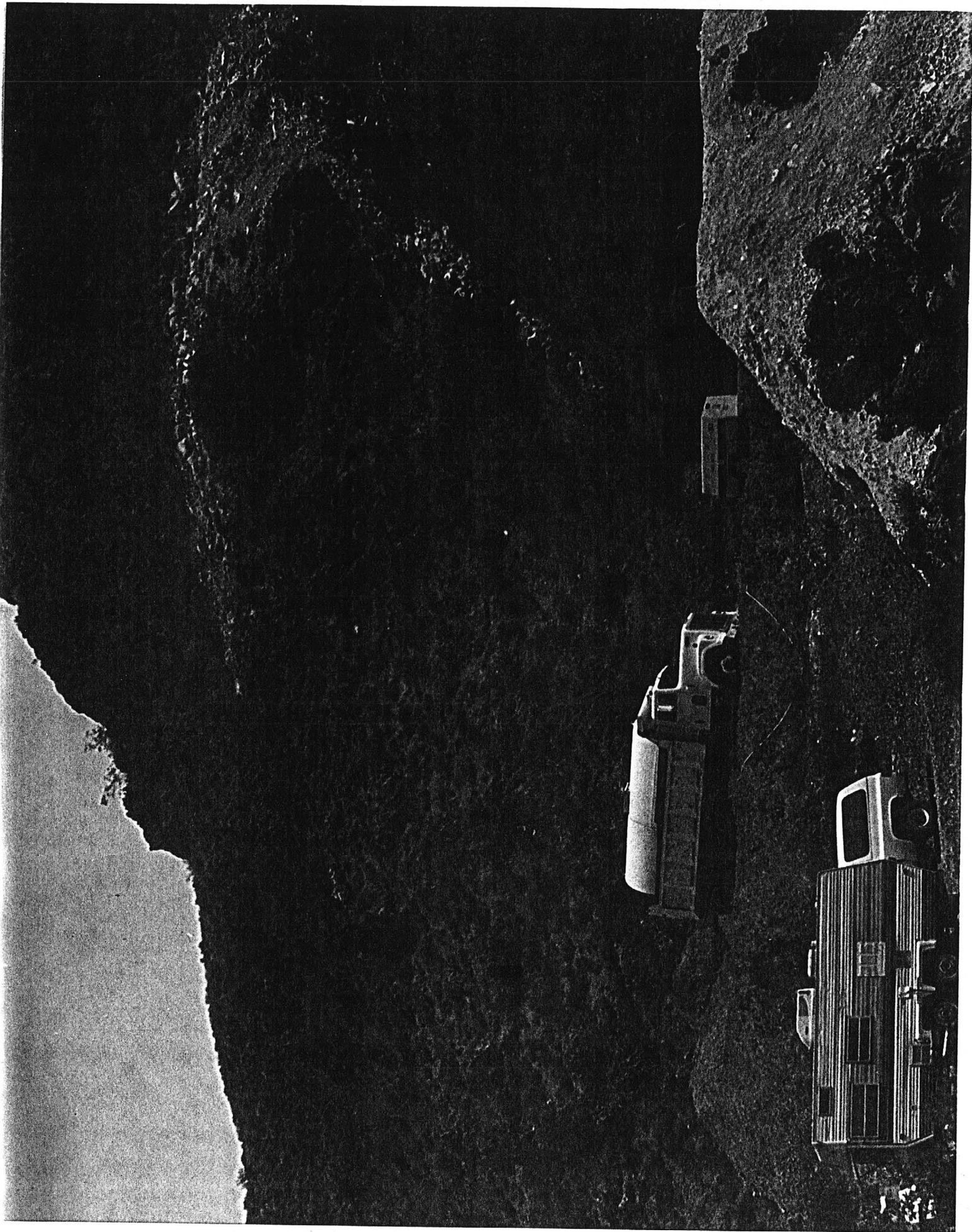
KAP WR 4/5/85: While researching information on magnesite and brucite occurrences it was determined the kaolinite mentioned in the KAP WR 10/23/85 note in the Kingman Feldspar Mill (file) Mohave County may in actuality be brucite from the White House Group (file) Mohave County.

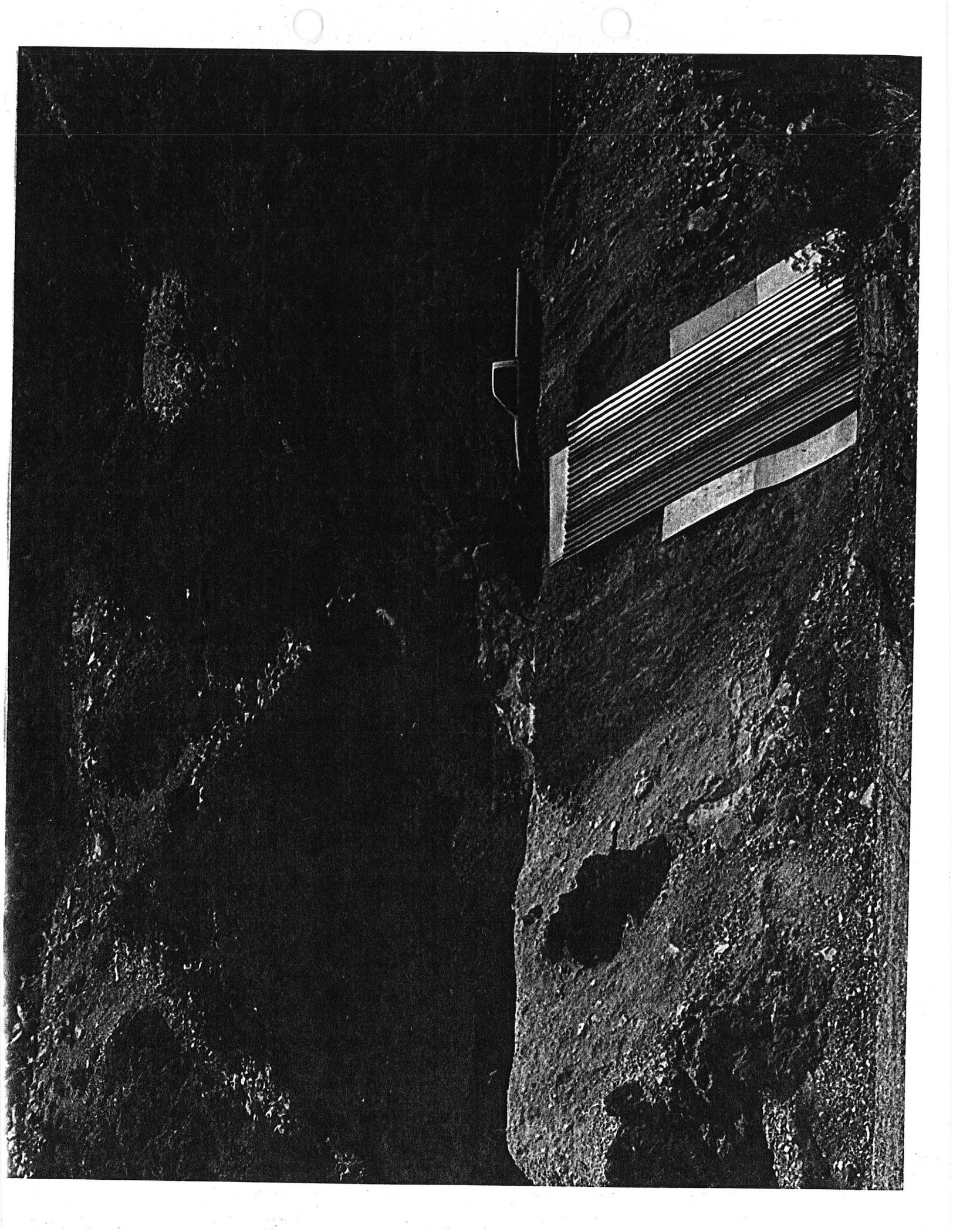


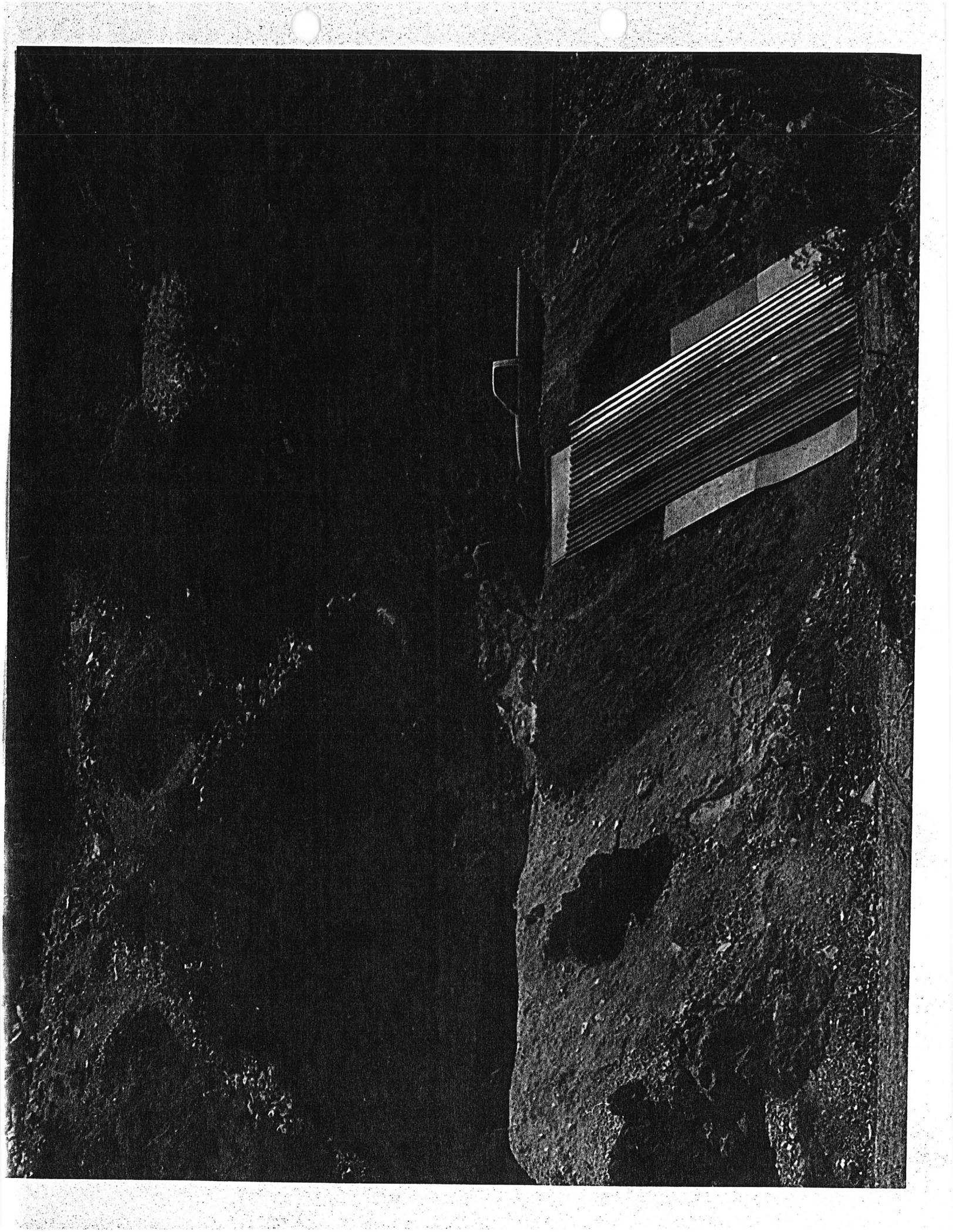












White House
Group

Brucite Data

BLACK MOUNTAINS PLANNING UNIT 02-02

MINERALS

STEPS 3 and 4

Several minerals occur in minor amounts in the gold-quartz veins in the Black Mountains. Silver and lead production from these veins have been, and probably always will be, dependent on gold production. Vismuth, vanadium, beryllium, and fluorite also occur in the veins in small amounts. It is unlikely that these minerals will ever be produced in commercial quantities in the planning unit.

Brucite

Brucite-1 was designated on the basis of several blocks of mining claims located for brucite. Within this IMA is ~~an~~ MRA-1 that is based on the occurrence of the brucite deposits. According to several sources, (Step 3), these deposits consist of partially inventoried reserves. Although they are low-grade deposits, they should be considered a potential mineral resource. Increased demand for magnesium metal (Step 3) could result in development of these deposits in the foreseeable future. Likely mining methods could either be underground or open pit, since the deposits are sometimes nearly flat lying and other times steeply dipping.

Clay

The boundary of Clay-1 encloses an area in which several clay deposits occur. The boundary is rather arbitrary and is intended to indicate an area where clay is likely to be found; as more becomes known about clay occurrences in this area the boundary may change. MRA-³7 encloses the area in E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 35, T. 17 N., R. 19 W., where clay was mined in the past. Published information indicates that there may be substantial reserves of good quality refractory clay at this deposit. At first glance, it appears that

an attempt to mine the clay failed; however, sustained production may not have been planned from the start since the clay was used in the construction of an airport. Further production will depend on similar needs or demand for refractory material. It is believed that the clay deposits in Clay-1 have potential for further production. Any future mining will continue to be by open pit.

Perlite

The boundary of Perlite-1 was designated on the basis of the geologic occurrence of a large perlite deposit. ^{MRA-4 which is located} ~~The MRA~~ within Perlite-1, designates an area estimated to consist of 250,000 tons of perlite. This material has been tested and was found to expand from a raw density of 96 lbs/cu. ft. to a "popped" density of 1½ to 10 lbs/cu. ft. This represents an average increase in volume of about 2000%, which indicates the perlite is suitable for commercial use. The question that remains is - could these deposits compete with other deposits? The deposits at Superior have dominated Arizona perlite production for some time and this situation is expected to continue. However, the expansion of western perlite markets and rising costs of transportation may require development of more strategically located deposits (5, p. 1136). The perlite deposits near Yucca are favorably situated to the Southern California and Las Vegas markets and future growth along the Colorado River could create a local market for the deposits; however, when these deposits might offer serious competition to the Superior deposits is not known.

The boundary of Perlite-2 was established on the basis of the reported occurrence of perlite beds in T. 22 & 23 N., R. 19 & 20 W. (4, p. 406).

Brucite 1

Brucite is a magnesium hydroxide mineral used in ceramics, refractories, textiles, rubber, and also as a source of magnesium metal. Little is known of future trends in the market for brucite, although the demand for magnesium metal is expected to increase because of increased use of light weight metals by the auto industry. It is also being anticipated that magnesium may replace aluminum in structural materials¹.

There are few commercial size deposits of brucite known in the United States. Included with these are the deposits near Oatman in Sections 7, 8, 17 and 18, T. 19 N., R. 20 W.; the only known deposits of brucite in Arizona.

Estimates of reserves range from 40,000 tons² to 500,000 tons³. One deposit was drilled a few years ago (probably middle or late 1960's) resulting in an estimate of 200,000 tons of reserves. There was limited production from the deposits around 1953, but the low grade of the ore ended further production. The deposits consist of some high grade material, but not enough to justify mining at present.

Several groups of unpatented claims cover the deposits. These include the Mag group, Whitehouse group, Midnight group, Pioneer group, and Moss Wash group. Other unpatented claims occur nearby partly because the area is within the Oatman Mining District.

-
1. Engineering and Mining Journal, vol. 174, no. 3, March 1973, p. 120.
 2. Mineral and Water Resources of Arizona; Arizona Bureau of Mines Bulletin 180, 1969, p. 324.
 3. Compendium on Nonmetallic Minerals of Arizona; prepared by the Southwest Research Institute, San Antonio, Texas, 1964, p. 58.

Clay-1

Clays are a group of minerals with a wide variety of uses. Properties such as purity, resistance to high temperatures, bonding strength, and swelling capacity determine what the clay can be used for. Most clay mined in Arizona has been used for refractory and ceramic purposes. About 600,000 tons were mined in Arizona from 1962 to 1965.

Several clay deposits occur at the southern end of the Black Mountains, but little is known of their extent and quality. One deposit occurs on Federal land where the mineral estate is privately owned (E $\frac{1}{2}$ SE $\frac{1}{4}$ Sec. 35, T. 17 N., R. 19 W.). Reserves are reported to be large (2, p. 83), and tests have shown the material has desirable properties as refractory material (2, p. 83).

Sometime during the 1960's, the deposit was mined and the clay shipped by rail from the nearby Franconia siding. It is not known how much of the material was mined or how much still remains. According to Gerald Weathers, Consulting Geologist in Phoenix, the clay was used in the construction of an airport. There has been no mining activity at the deposit in the past several years and all improvements are in an advanced state of disrepair.

ARKLA was active in Clay-1 during the 1960's. They conducted geophysical exploration, drilling for gold veins and disseminated copper deposit, and they located a number of claims (Don claims).

References:

1. Compendium of Nonmetallic Metals of Arizona; prepared by the Southwest Research Institute, San Antonio, Texas 1964.
2. Mineral and Water Resources of Arizona; Arizona Bureau of Mines Bull. 180, 1969.

TABLE 1

District or area	Name of Mine	Periods of Production	Minerals Produced	Amount Produced	Source of Information
Oatman	Tom Reed	1909-1931	Gold & Silver	984,000 tons ore at \$13,000,000	7
	United Eastern	1915-1926	Gold & Silver	697,000 tons ore at \$15,000,000	7
	Gold Road	1897-1924	Gold & Silver	738,000 tons ore at \$7,000,000	7
	Moss	1860's & early 1900's	Gold	\$250,000	7
	Telluride	1922-1925	Gold	\$200,000	7
	Unknown	1953	Brucite	A few tons	2,4
	Vivian	1938&1949	Lead	A few tons lead	7
Katherine - Union Pass	Katherine	1900-1930	Gold & Silver	\$1,000,000	7
	Roadside	1915-1934	Gold & Silver	890 oz. gold 1734 oz. silver	7
	Arabian	1917-1933	Gold & Silver	593 oz. gold 1156 oz. silver	7
Northern Black Mountains	Gold Bug	1893-1932	Gold & Silver	\$55,000	7
	Mocking Bird	before 1908	Gold & Silver	\$20,000	7
	Pilgrim	1903-1934	Gold	unknown	7
Southern Black Mountains	Unknown	1950's or 1960's	Clay	estimated at few hundred tons	2
	Unknown	1942	Perlite	Two carloads	2,4

Note: Where possible the amount of commodity produced was listed. Dollar values for gold production are based on a price of \$20/oz.

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX 7, ARIZONA



September 20, 1961

Mr. Sy Sussman
722 Main Street
Evanston, Illinois

Dear Mr. Sussman:

With reference to your recent inquiry about the Mag No. 1 brucite mine near Oatman:

As of 1958, the owners of a brucite property called "Mag and White House" were R. A. Martian Oatman, Arizona and Harry F. Heather 236 South Oak Knoll Avenue, Pasadena, California. Our files have reports of work on the White House group by Basic Refractories, Inc. of Cleveland in 1943. The brucite occurred in three strata ranging from 10 to 40 feet in thickness and traceable for about 4500 feet, although frequently broken into segments. Work by United States Brucite Corporation of Gabbs, Nevada was reported in 1953. Unfortunately the report does not give the group of claims in which an 18 foot vein with 10 to 12 feet of brucite (61 to 62% MgO) acceptable for making Epsom Salts was cut. Some intermittent shipments were made. We have no knowledge of shipments in later years.

The brucite veins are reported to dip steeply with hard shale and andesite walls. A 400 foot tunnel was open in 1958 and probably still is.

If we can be of further service, please call on us.

Very truly yours,

FRANK P. KNIGHT,
Director.

FK:p

C
O
P
Y

DEPARTMENT OF MINERAL RESOURCES

News items

Date July 28, 1953

Mine Martin Brucite Mine

Location 4 mi. NW of Oatman, Ariz.

Owner Bob Martin, Oatman.

Address Oatman, Ariz.

Operating Co. U.S. Brucite Corp.

Address Cabbs, Nevada

Pres. _____

Genl. Mgr. Robert O. Jones

Mine Supt. _____

Mill Supt. _____

Principal Metals _____

Men Employed 2

Production Rate Intermittent, just shipped

Mill, Type & Capacity one ~~two~~ carloads crude ore on trial basis.

Power, Amt. & Type Diesel 75 H.P.

air compressor

Signed George F. Reed

(Over)

Present Operations

Have just completed a cross-cut
adit to vein and drifted
enough to ship two trial cars
to a California Chemical Plant.

New Work Planned

If ore is satisfactory, a 400
ton stock-pile will be held
ready to fill orders. the center
10-12 feet of vein runs 62%
magnesium oxide. This is good

Misc. Notes

enough for making epsom salts.

Ariz. was first
production of
Brunite ???

Shipped to San
Francisco Chemical
Plant

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date August 26 1958

1. Mine: Mag * White-House
2. Location: Sec..... Twp..... Range..... Nearest Town Oatman Distance 2 1/2
Direction Northly Nearest R.R. Santa Fe. Distance 25
Road Conditions Good onto property maintained by county.
3. Mining District and County: Mohave
4. Former Name of Mine: Same
5. Owner: R.A. Martien - Oatman Ariz.
Address: Harry F. Heather, 236 S. Oak Knoll Ave. Pasadena 5 Calif.
6. Operator: none Idle
Address:
7. Principal Minerals: Magnesium-hydroxide (BRUCITE)
8. Number of Claims: Lode 2 Patented..... Unpatented No
Placer..... Patented..... Unpatented.....
9. Type of Surrounding Terrain: Fairly rough, typical of lower Oatman areas.
10. Geology and Mineralization: Contact deposit hard shale foot wall and green andesite hanging wall. Dipping at about 80 degrees easterly striking northly and southerly. Lifted by large granit phorphy batholith.
11. Dimension and Value of Ore Body: There was drilling done and roughly on this one ore body there was smely blocked approximately 80 000 tons later tunnell was driven to ore and drifting done blocking out approximately 8000 tons to this level. This body is 20' 50 30' width.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight": *8000 To 10000 By Tunnel*
By Shamm on drill 60000 To 80000 Tons

Ore Probable: 200000 to 300000 tons.

13. Mine Workings—Amount and Condition: *Good solid ground*

No.	Feet	Condition
Shafts		
Raises		
Tunnels	400	Good, all open width and height for loader
Crosscuts	<i>many</i>	<i>Local Surface</i>
Stopes		

14. Water Supply: *No, Catman supplies locally*

15. Brief History: *Discovered early 1942, Drilled by Basic Refractories.*
Tunnele driven 1953, Standard Slag.

16. Remarks: *This is a good type of Brucite running from 62 to as high*
68 mgo. Walls are good ore is clean and lends its self to stoping.
there is considerable other showings on this property. Climate
is good all roads are paved excepting the 5 miles out from
Catman. No steep area on the roads from town.

17. If Property for Sale, List Approximate Price and Terms: *\$20,000 terms to suit*

18. Signature: *Harry F. Heather*
for R. A. Martin,

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Martin Brucite

Date June 8, 1953

District Oatman (San Francisco)

Engineer Geo. F. Reed

Subject: Additional Notes (See those of April 14th and May 17th)

I had a talk today with Robert O. Jones, Manager of United States Brucite Corporation, Gabbs, Nevada. This is the company working on the Martin Brucite. They are part of Standard Slag Company of Gabbs. Local address is Oatman, Arizona.

Mr. Jones says the cross-cut adit has cut an 18 foot vein of brucite. He estimates that the 10 to 12 feet of best ore in the vein center will assay about 61 to 62% MgO and be acceptable brucite for Epsom Salts making. Minimum acceptable grade according to Mr. Jones is 60% MgO. Other specifications are:

CaO less than 3.0%

SiO₂ less than 4½%

Fe₂O₃ and Al₂O₃, total less than 1.0%

Mr. Jones says pure Brucite would assay 69.0% MgO.

They have turned and are drifting in ore and plan to ship two trial carloads at once. Then they plan to stock-pile 400-600 tons to be shipped as needed.

George F. Reed

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ~~Martin~~ Martin Brucite

Date May 17, 1953.

District Oatman (San Francisco)

Engineer Geo. F. Reed

Subject: Additional notes

Name of Property:

This property is generally known in the area as the "Martin Brucite", so it would seem that this is the best name for it. So far it has not shipped any quantity of ore at a profit, so lets omit "Mine" at the end of the name.

Owner Name & Address:

R. A. (Bob) Martin, Oatman, Arizona, is the principal owner. The property comprises a large group held by location (unpatented), by Mr. Martin. They include Gold Standard, Gold Gulch, East La Paz, La Paz No. 2, Mag No. 1 and Mag No. 2, South La Paz.

Operator:

Robert O. Jones, Pres., U. S. Brucite Co., Gabbs, Nevada, (part of Standard Slag Co., Gabbs, Nev.) has the property under lease.

Present Activity:

Mr. Jones has let a contract for development work to Joe Bednar & Don Lamb, Gen'l Delivery, Oatman, to drive a cross-cut adit about 200 feet to the Brucite Vein and then drift 300 feet. They are in about 175 feet now and making about 7 feet per day advance.

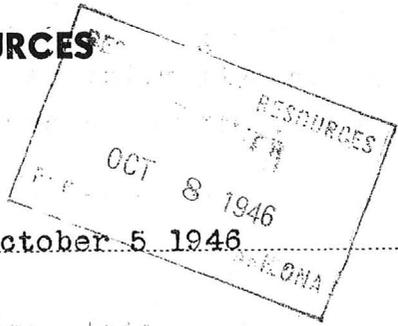
The ore shown in surface cuts assays up to 64%, and it is understood that shipments are contemplated if grade can be held up to 60%. This is said to be worth about \$12.50 on the railroad cars. It is supposed to be going for making Epsom Salts.

The vein dips steeply and walls are a fine grained green porphyry with white phenocrysts about $\frac{1}{2}$ $\frac{1}{4}$ inch in diam. Ore which is white to grayish or yellowish, is ten to forty feet wide. It is said that the center assays best, around 64% MgO.

George F. Reed

BA
76

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT



Date October 5 1946

1. Mine: WHITE HOUSE &-Or Mag.

2. Location: Sec 7 8.17.18. Twp 9N Range 20 W. Nearest Town Oatman

Distance 4 Direction N.Westly Road Condition Good graded road to

3. Mining District & County: Mohave County --- Ariz.

4. Former Name of Mine: White house and Mag groupe of Claims.

5. Owner: Robert A Martian-Box 168 Oatman Ariz.

Address: Harry F.Heather-236 S.Oak Knoll Ave.Pasadena 5 Calif.

6. Operator: none.

Address: ---

7. Principal Minerals: Magnesium .(Brucite)

8. Number of Claims: Nine. Lode Placer

Patented no. Unpatented

9. Type of Surrounding Terrain: rough, as per Oatman district.

10. Geology & Mineralization: Hanging wall of Oatman green andsite foot wall highly altered shale.

11. Dimension & Value of Ore Body: One body 25' wide 300' to 400' long
another about 60' wide by 200' with some smaller ledges 8' to 10'
wide 1200' long.

12. Ore "Blocked Out" or "In Sight": About 20000 tons of Magnesium oxide going 62% or better. In one explored ledge, This particulated piece of ground, drilled by core drill five holes down to more than 200'.

Ore Probable: Total ~~xxxxxx~~ estimate-1 to 4 million tons.

13. Mine Workings—Amount and Condition: ---- surface

No.	Feet	Condition
Shafts. -	12'	All in brucite. Good
Raises. -		
Tunnels. -		
Crosscuts. -		
Stopes. -		

14. Water Supply: None- Local water available Silver Creek.

15. Brief History: This deposit is in the old gold camp of Oatman-Goldroads area, and has been noticed for years and called lime dykes early in 1942 in looking over the district I noticed the "Lime" here was not "lime". Preliminary test showed it to be likely a magnesium of some kind. Samples later analysed by good chemist showed it to be very high grade Brucite. It was then leased to the Basic Refractorie of Cleveland Ohio. ~~xxxxxxx~~ Who Diamond drilled it. with the idea of using in their operations. By late 1944 it became aparent that there was over production of Magnesium Oxide, so they turned the property back. Then it was leased to Philip S. Hoyt, who was unable to meet prices on the eastern seaboard, after few months he returned lease. Idle at this time (Oct. 1948)

16. Signature: *Harry F. Hestley*

17. If Property for Sale, List Approximate Price and Terms: \$20 000. Cash. Terms on a lease \$1. per ton roylytie, with a monthly guarntee, all payments to accure. No purchase price on a lease.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Bob Martin Brucite Mine

Date April 14, 1953.

District Oatman (San Francisco)

Engineer Geo. F. Reed

Subject: Present Status & General Description

Location, Ownership & General Conditions:

The Bob Martin Brucite Mine is reached from Oatman via Silver Creek Road for about two miles and then about two miles down Times Gulch to the mine. Fair dirt road. Airline, it is about three miles North-West of the town of Oatman. It is apparently in Sections 7 & 8, Twp.19N, R20W. It is just South-West of the old "Times Mine. Bob Martin, the owner, lives at the mine. The mine is leased by Standard Slag Co., Gabbs, Nevada, who have contracted for a 200 foot cross-cut adit and 300 feet of drifting on the Brucite Vein.

Geology & Topography:

The mine is in an area of rugged topography cut out of the Alcyone Trachyte and Times Porphyry. The Brucite appears to be a vein from ten to 40 feet thick, fairly steep dipping to the South and striking East-West, and either in or at the contact of the Alcyone Trachyte with an overlying shale. Mr. Martin says that much of the vein is almost pure Brucite. It is generally pure white.

Standard Slag Co. have contracted the first work and there is now on the property a new mucking machine, 315 foot diesel compressor and new rock drills ready to drive the cross-cut adit.

George F. Reed

NAME OF MINE: WHITE HOUSE

COUNTY: MOHAVE W

DISTRICT:

METALS: MG

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

5/1/44

Basic Refractories Inc.
R. A. Martin, Mgr.
Box 168, Oatman, Ariz.

5/1/44

Closed

Important

NEWS RELEASE

DEPT. MINERAL RESOURCES
RECEIVED
JUL 12 1943
PHOENIX, ARIZONA

Oatman, Arizona, July 10, 1943. -- The White House group of brucite claims, located about 7 miles northwest of Oatman, Arizona, is now under lease and option to Basic Refractories, Inc., Cleveland, Ohio, according to Elgin B. Holt, district engineer, Arizona State Department of Mineral Resources. Holt states that the company mentioned ~~has~~ started diamond drilling about June 15th, in order to prove up the deposit, with a crew of five men and already 3 holes, about 150 feet deep each, have been put down on the main brucite outcropping. This work is under the supervision of Lowman, examining engineer.

Basic Refractories, Inc., own valuable magnesium mines at Luning, Nevada, and ship magnesite and dolomite material to Basic Magnesium, Inc., near Las Vegas, and brucite to their refractories plant in Cleveland.

The White House group, consisting of 10 claims, was discovered about six months ago by H. F. Heather and R. A. Martin, Box 168, Oatman, Arizona. Holt visited and made a preliminary examination of the property on March 7, 1943.

Magnesium-bearing material, which has been classified as brucite by Ed Eisenhauer, Jr., of Los Angeles, occurs in a series of 3 or more "bedded" strata along a zone flanked on the northwest by shale and on the southeast by andesite. Also, andesite is found between the said strata, which strike northeast to southwest and dip 45 degrees southeast. The said magnesium-bearing strata are traceable on the surface for a distance of 4500 feet, and range from 10 to 20 feet in thickness; but are broken into segments at frequent intervals.

* Lowman was absent at ⁻¹⁻the time I was in Oatman; and I could not get his first name.

There are four major outcroppings, or lenses of brucite material: One 40 feet thick by 150 feet long; another 20 feet thick by 1000 feet long; another 15 feet thick by 750 feet long; and the last one is 20 feet thick by 500 feet long, more or less.

At the time of Holt's visit in March, Heather stated he had taken a 150-pound grab sample from outcroppings of the said material, and that the same was analyzed by Ed Eisenhauer, Jr., of Los Angeles; results being as follows:

Ferric oxide (Fe ₂ O ₃) -----	0.88%
Aluminum oxide (Al ₂ O ₃) -----	1.04%
Mn oxide (MnO) -----	2.33%
Calcium oxide (CaO) -----	0.15%
Magnesium oxide (MgO) -----	62.57%
Chlorine (Cl) -----	Trace
Sulphuric anhydride (SO ₃) -----	Trace
Silica (SiO ₂) -----	1.76%
Los by ignition -----	<u>31.10%</u>
 Total -----	 <u>99.83%</u>

As to results of present diamond drilling operations, operatives in charge of this work have been instructed to give out no information whatever. Aside from the drilling crew mentioned, three engineers are now surveying the property in detail, making claim maps and topographic maps, etc.

Other magnesium claims have been staked out in the Oatman area as follows:

Independence Group, 4 claims, owned by J. H. McCarthy, of Oatman; said claims being located about one mile southwest of the Moss mine. Here surface assays show 32% MgO, per McCarthy. Also Horace Fuller, Justice of Peace, at Oatman, has staked some magnesium claims southwest of the White House group. William James, of Oatman, also owns the Gilpin group of gold claims, on which he says brucite is found, adjoining and northeast of the White House group. George Moser, of Oatman, also owns a magnesium claim in the

area southeast of the White House group.

Hence, it will be noted that magnesium-bearing material has been found over a considerable area in the region northwest and west of Oatman. Consequently, in the event present exploratory work being carried on at the White House property by the company mentioned, should prove up large quantities of desirable magnesium-bearing material, Oatman will be given a new lease of life. As is well known, the closing of Goldroad and the Tom Reed mines at or near Oatman, has resulted disastrously for that historic gold-producing camp.

Elgin B. Holt

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES
RECEIVED
MAR 10 1943
PHOENIX, ARIZONA

Mine WHITE HOUSE GROUP

Date March 7, 1943.

District San Francisco, Mohave Co., Ariz.

Engineer Elgin B. Holt

Subject: R E P O R T

OWNERS: H. F. Heather, 236 South Oak Knoll Ave., Pasadena, Calif., & R. A. Martin, Box 168, Oatman, Arizona.

METALS: Magnesium; ore occurring as "BRUCITE".

LOCATION: Property, consisting of 10 claims, is located near R. A. Martin's camp, about 7 miles N. W. of Oatman, Arizona.

GEOLOGY: Magnesium-bearing material, which has been classified by Ed Eisenhauer as "Brucite", occurs in a series of 3 or more bedded strata along a zone flanked on the northwest by shale and on the southeast by Andesite. Also, Andesite is found between the said strata, which strike ~~northwest~~ northeast to southwest and dip 45 degrees southeast. The said magnesium-bearing strata are traceable on the surface for a distance of 4500 feet, and range from 10 to 20 feet in thickness; but are broken into segments at frequent intervals.

There are 4 major outcroppings, or lenses: One 40 feet thick by 150 feet long; another 20 feet thick by 1000 feet long; another 15 feet thick by 750 feet long; and the last one is 20 feet thick by 500 feet long. Workings consist of a number of shallow test pits for sampling only.

ANALYSIS: Heather states that he took a 150-pound grab sample from outcroppings of this material, and that the same was analyzed by Ed Eisenhauer, Jr., of Los Angeles; results being as follows:

Ferric Oxide (Fe ₂ O ₃)	0.88%
Aluminum Oxide (Al ₂ O ₃)	1.04%
Mn Oxide (MnO)	2.33%
Calcium Oxide (CaO)	0.15%
Magnesium Oxide (MgO)	62.57%
Chlorine (Cl)	Trace
Sulfuric Anhydride (SO ₃)	"
Silica (SiO ₂)	1.76%
Loss by ignition	31.10%

Total ----- 99.83%

WORK: PROPOSED: Owners are now planning to carry out a systematic sampling of this property, with a view to determining the average tenor of the magnesium content of the deposit outlined above.

Elgin B. Holt
Elgin B. Holt,
Field Engineer.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Bob McCreless

Company: RMC Minerals

Address: 12801 N. Central Expressway #460

Dallas, Texas 75243

2. Phone: (214) 404-1106

3. Mine:

4. ADMMR Mine File: WHITE HOUSE GROUP

5. County: Mohave

6. Summary of information received, comments, etc.:

Mr. McCreless reports he has staked mining claims to cover the brucite occurrence. He has visited the property and hired Jim Woods, a geologist from Kingman, to map and sample the property. Efforts continue to locate the geologist who directed the drilling done in the 40's (?) in order to confirm they drill indicated resources. Preliminary analysis indicates the material may be acceptable to fill their need for natural brucite.

RMc Minerals Co.

Bob McCreless
Chief Executive Officer

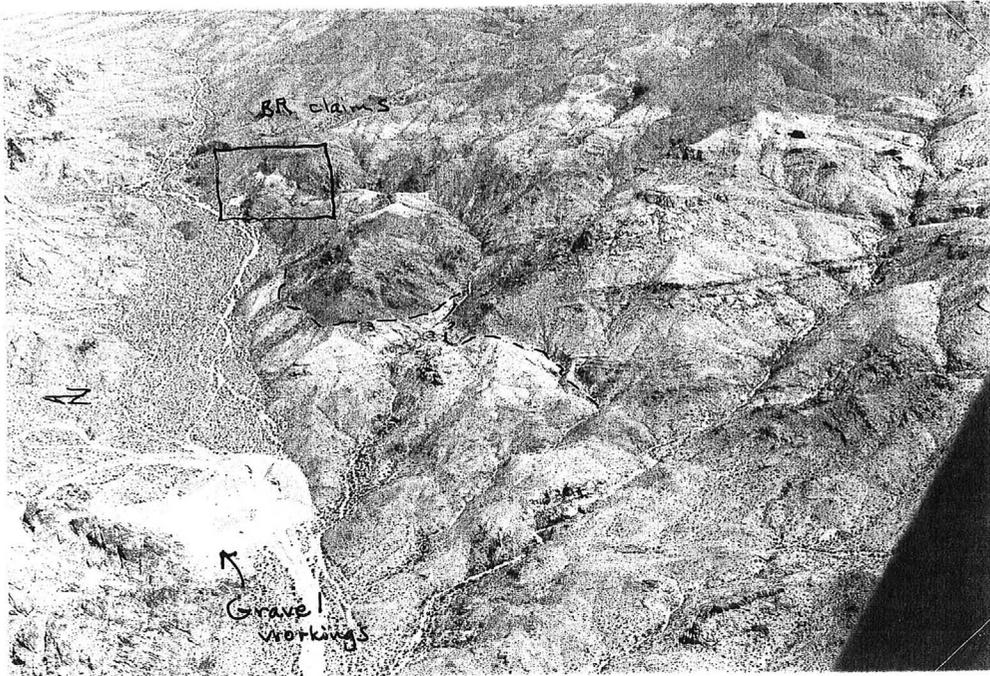
12801 N. Central Expwy.
Suite 460
Dallas, Texas 75243

Ofc. 214-404-1106
Fax 214-490-7488

Date: September 23, 1988

Nyal J. Niemuth, Mining Engineer

TEMPORARY COPY, ORIGINALS BEING SCANNED



5/89

STATE OF ARIZONA
DEPARTMENT OF MINERAL RESOURCES
MINERAL BUILDING, FAIRGROUNDS
PHOENIX 7, ARIZONA



September 20, 1961

Mr. Sy Sussman
722 Main Street
Evanston, Illinois

Dear Mr. Sussman:

With reference to your recent inquiry about the Mag No. 1 brucite mine near Oatman:

As of 1958, the owners of a brucite property called "Mag and White House" were R. A. Martian Oatman, Arizona and Harry F. Heather 236 South Oak Knoll Avenue, Pasadena, California. Our files have reports of work on the White House group by Basic Refractories, Inc. of Cleveland in 1943. The brucite occurred in three strata ranging from 10 to 40 feet in thickness and traceable for about 4500 feet, although frequently broken into segments. Work by United States Brucite Corporation of Gabbs, Nevada was reported in 1953. Unfortunately the report does not give the group of claims in which an 18 foot vein with 10 to 12 feet of brucite (61 to 62% MgO) acceptable for making Epsom Salts was cut. Some intermittent shipments were made. We have no knowledge of shipments in later years.

The brucite veins are reported to dip steeply with hard shale and andesite walls. A 400 foot tunnel was open in 1958 and probably still is.

If we can be of further service, please call on us.

Very truly yours,

FRANK P. KNIGHT,
Director.

FK:p

C
O
P
Y

DEPARTMENT OF MINERAL RESOURCES

News Items

Date July 28, 1953

Mine Martin Brucite Mine

Location 4 mi. NW of Oatman, Ariz.

Owner Bob Martin, Oatman

Address Oatman, Ariz.

Operating Co. U.S. Brucite Corp.

Address Cabbs, Nevada

Pres.

Genl. Mgr. Robert O. Jones

Mine Supt.

Mill Supt.

Principal Metals

Men Employed 2

Production Rate Intermittent, just shipped

Mill, Type & Capacity one ~~two~~ carloads crude ore on trial basis.

Power, Amt. & Type Diesel 75 H.P.

on Compressor

Signed

George F. Reed

(Over)

Present Operations

Have just completed a cross-cut
adit to vein and drifted
enough to ship two trial cars
to a California Chemical Plant.

New Work Planned

If ore is satisfactory, a 400
ton stock-pile will be held
ready to fill orders. the center
10-12 feet of vein runs 62%
magnesium oxide. This is good
enough for making epsom salts.

Misc. Notes

Arizona's first
production of
Brenite ???

Shipped to San
Francisco Chemical
Plant

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Martin Brucite Date June 8, 1953
District Oatman (San Francisco) Engineer Geo. F. Reed
Subject: Additional Notes (See those of April 14th and May 17th)

I had a talk today with Robert O. Jones, Manager of United States Brucite Corporation, Gabbs, Nevada. This is the company working on the Martin Brucite. They are part of Standard Slag Company of Gabbs. Local address is Oatman, Arizona.

Mr. Jones says the cross-cut adit has cut an 18 foot vein of brucite. He estimates that the 10 to 12 feet of best ore in the vein center will assay about 61 to 62% MgO and be acceptable brucite for Epsom Salts making. Minimum acceptable grade according to Mr. Jones is 60% MgO. Other specifications are:

CaO less than 3.0%

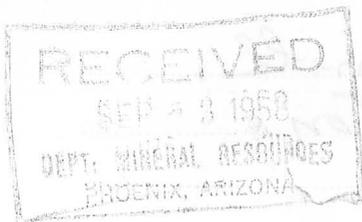
SiO₂ less than 4.5%

Fe₂O₃ and Al₂O₃, total less than 1.0%

Mr. Jones says pure Brucite would assay 69.0% MgO.

They have turned and are drifting in ore and plan to ship two trial carloads at once. Then they plan to stock-pile 400-600 tons to be shipped as needed.

George F. Reed



DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

Date August 28 1958

1. Mine: Mag & White-House
2. Location: Sec..... Twp..... Range..... Nearest Town Oatman Distance 5M
Direction Northly Nearest R.R. Santa Fe, Distance 25
Road Conditions Good onto property maintained by county.
3. Mining District and County: Mohave
4. Former Name of Mine: Same
5. Owner: R.A. Martian - Oatman Ariz.
Address: Harry F. Heather, 236 S. Oak Knoll Ave. Pasadena 5 Calif.
6. Operator: none, Idle
Address:
7. Principal Minerals: Magnesium-hydroxide (BRUCITE)
8. Number of Claims: Lode 2 Patented..... Unpatented No
Placer..... Patented..... Unpatented.....
9. Type of Surrounding Terrain: Fairly rough, typical of lower Oatman areas.
10. Geology and Mineralization: Contact deposit hard shale foot wall and green andesite hanging wall. Dipping at about 80% degrees easterly striking northly and southerly. Lifted by large granit phorphy batholith.
11. Dimension and Value of Ore Body: There was drilling done and roughly on this one ore body there was smely blocked approxmately 80 000 tons
later tunnell was driven to ore and drifting done blocking out approxmately 8000 tons to this level. This body is 20' 50 30' width.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

12. Ore "Blocked Out" or "In Sight": *8000 To 10000 By Tunnel*
By Steam on drill 60000 To 80000 Tons

Ore Probable: 200000 to 300000 tons.

13. Mine Workings—Amount and Condition: *Good solid ground*

No.	Feet	Condition
Shafts.....		
Raises.....		
Tunnels.....	400	Good, all open width and height for loader
Crosscuts.....	<i>many</i>	<i>Local Surface</i>
Stopes.....		

14. Water Supply: *No, Oatman supplies locally*

15. Brief History: *Discovered early 1942, Drilled by Basic Refractories.*
Tunnels driven 1953, Standard Slag.

16. Remarks: *This is a good type of Brucite running from 62 to as high*
68 mgo. Walls are good ore is clean and lends its self to stoping.
there is considerable other showings on this property. Climate
is good all roads are paved excepting the 5 miles out from
Oatman. No steep area on the roads from town.

17. If Property for Sale, List Approximate Price and Terms: *\$20 000 terms to suit*

18. Signature: *Harry F. Weather*
Per R. A. Martin,

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ~~Martin~~ ✓ Martin Brucite Date May 17, 1953.
District Oatman (San Francisco) Engineer Geo. F. Reed
Subject: Additional notes

Name of Property:

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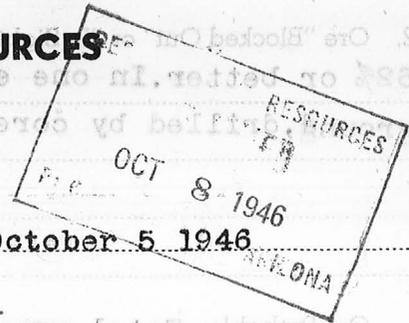
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State of Arizona
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NAME OF MINE: ' WHITE HOUSE

COUNTY: MOHAVE W

DISTRICT:

METALS: ' MG

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

DATE:

5/1/44

Basic Refractories Inc.
R. A. Martin, Mgr.
Box 168, Oatman, Ariz.

5/1/44

Closed

NEWS RELEASE

Important

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Elgin B. Holt

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

DEPT. MINERAL RESOURCES
RECEIVED
MAR 10 1943
PHOENIX, ARIZONA

Mine WHITE HOUSE GROUP

Date March 7, 1943.

District San Francisco, Mohave Co., Ariz.

Engineer Elgin B. Holt

Subject:

R E P O R T

OWNERS: H. F. Heather, 236 South Oak Knoll Ave., Pasadena, Calif., & R. A. Martin, Box 168, Oatman, Arizona.

METALS: Magnesium; ore occurring as "BRUCITE".

LOCATION: Property, consisting of 10 claims, is located near R. A. Martin's camp, about 7 miles N. W. of Oatman, Arizona.

GEOLOGY: Magnesium-bearing material, which has been classified by Ed Eisenhauer as "Brucite", occurs in a series of 3 or more bedded strata along a zone flanked on the northwest by shale and on the southeast by Andesite. Also, Andesite is found between the said strata, which strike ~~northwest~~ northeast to southwest and dip 45 degrees southeast. The said magnesium-bearing strata are traceable on the surface for a distance of 4500 feet, and range from 10 to 20 feet in thickness; but are broken into segments at frequent intervals.

There are 4 major outcroppings, or lenses: One 40 feet thick by 150 feet long; another 20 feet thick by 1000 feet long; another 15 feet thick by 750 feet long; and the last one is 20 feet thick by 500 feet long. Workings consist of a number of shallow test pits for sampling only.

ANALYSIS: Heather states that he took a 150-pound grab sample from outcroppings of this material, and that the same was analyzed by Ed Eisenhauer, Jr., of Los Angeles; results being as follows:

Ferric Oxide (Fe ₂ O ₃)	0.88%
Aluminum Oxide (Al ₂ O ₃)	1.04%
Mn Oxide (MnO)	2.33%
Calcium Oxide (CaO)	0.15%
Magnesium Oxide (MgO)	62.57%
Chlorine (Cl)	Trace
Sulfuric Anhydride (SO ₃)	"
Silica (SiO ₂)	1.76%
Loss by ignition	31.10%

Total ----- 99.83%

WORK: PROPOSED: Owners are now planning to carry out a systematic sampling of this property, with a view to determining the average tenor of the magnesium content of the deposit outlined above.

Elgin B. Holt
Elgin B. Holt,
Field Engineer.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

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(Signed) Elgin B. Holt
Field Engineer

