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

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 03/21/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: MUDERSBACH GYPSUM

ALTERNATE NAMES:
BLUE MOON

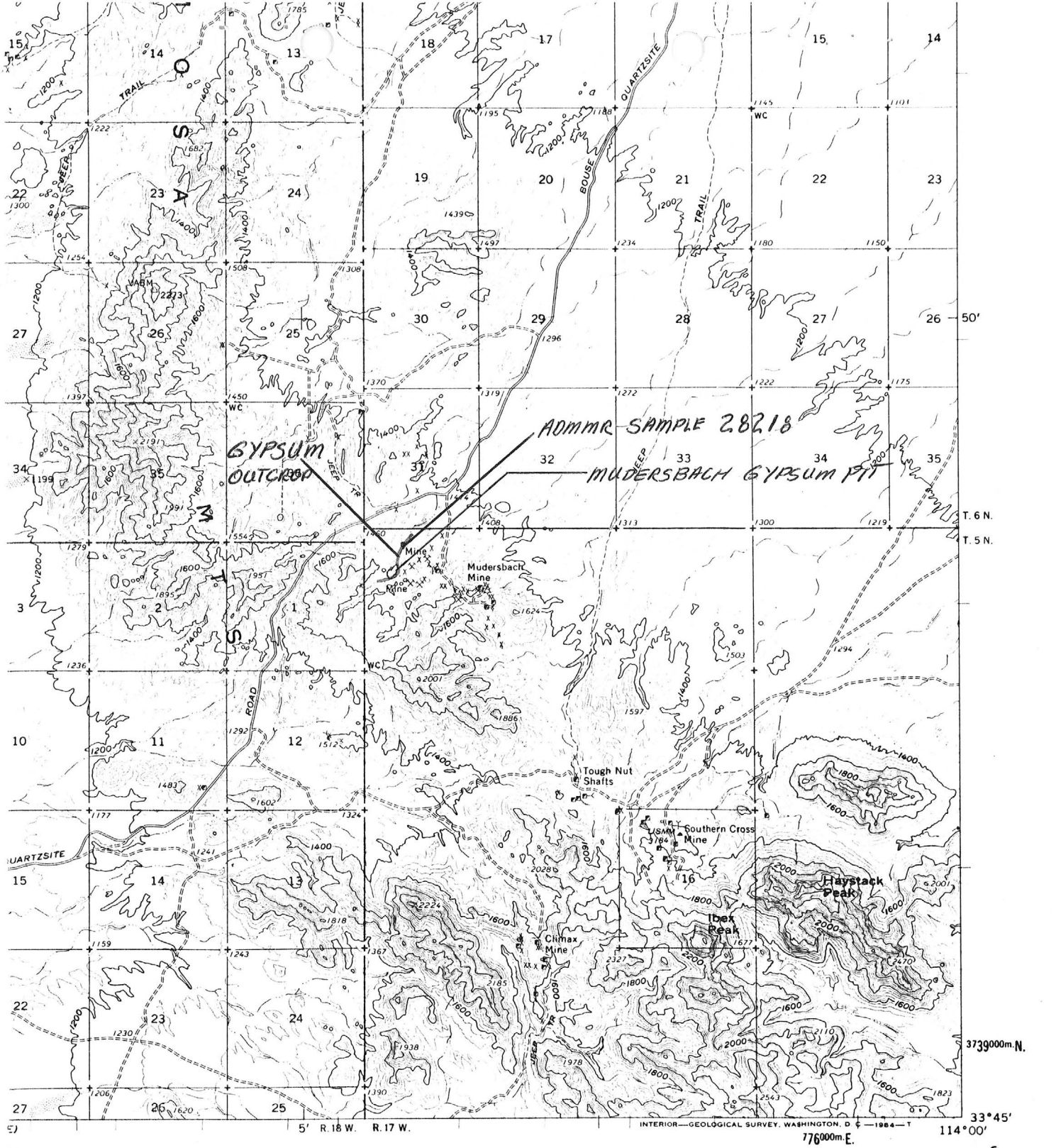
LA PAZ COUNTY MILS NUMBER: 810

LOCATION: TOWNSHIP 5 N RANGE 17 W SECTION 6 QUARTER NW
LATITUDE: N 33DEG 48MIN 17SEC LONGITUDE: W 114DEG 04MIN 10SEC
TOPO MAP NAME: BOUSE - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GYPSUM
CALCIUM LIMESTONE

BIBLIOGRAPHY:
ADMMR MUDERSBACH GYPSUM FILE
USGS BULL 451, P 91,92
ABM BULL 180, P378 (BLUE MOON [LOC IN ERROR])
ADMMR MUDERSBACH MINE FILE



4 MILES

21000 FEET

5 KILOMETERS

40 FEET
FOOT CONTOURS
LEVEL

ROAD CLASSIFICATION

Medium-duty — Light-duty

Unimproved dirt

State Route

ARIZONA

QUADRANGLE LOCATION

AP ACCURACY STANDARDS
5, COLORADO OR WASHINGTON 25, D. C.
SYMBOLS IS AVAILABLE ON REQUEST

BOUSE, ARIZ.
N3345—W11400/15

1962

MUDERSBACH GYPSUM
LAPAZ COUNTY, ARIZONA

VIS6.12

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Don Newman

   Company: Sculptor

   Address:
   Sedona, AZ

2. Phone: (602) 282-5466

3. Mine: Mudersbach Gypsum

4. ADMMR Mine File: Mudersbach

5. County: La Paz MILS Number: 810

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

   Don Newman, a commercial sculptor, is developing a raw materials business as an extension to his studio business.

   He reported visiting the Mudersbach Gypsum deposit in search of alabaster. His verbal description fits the property. He did not find any alabaster.

Date: August 8, 1991 Engineer: Ken A. Phillips

VIS6.10

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: John Fornes

   Company:

   Address: Litchfield Park, Arizona

2. Phone:

3. Mine: Mudersbach Gypsum

4. ADMMR Mine File: Mudersbach Gypsum

5. County: La Paz MILS Number: 810

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

   John Fornes reported he had mined over 500 tons of gypsum from the property for use on his agricultural fields in the Bouse-Hope area in the late 1950's to mid 1960's.

Date: April 10, 1990 Engineer: Ken A. Phillips

MUDERSBACH GYPSUM NW 1/4, Sec.6,T.5N.,R.17W. La Paz County, Arizona

---

KAP WR 1/20/1987: In the company of Mike Greeley a visit was made to the Mudersbach Gypsum (file){new} deposit in La Paz County. A separate report has been written. Further a new file has been created from data in what was previously known as the Blue Moon Group (file). The Blue Moon Group file which no longer exists contained information on the Mudersbach gypsum deposit, the Mudersbach copper, gold, silver and iron deposit as well as others in the Bouse area and the Plomosa Mountains. The file has been divided into new files. The Mudersbach Gypsum deposit has been mined for appearent local agricultural use. Much of the gypsum is intermixed with limestone which might limit its use in applications depending upons its chemical properties. As both the gypsum and the limestone are white, it might, however find uses in filler applications.

KAP WR 5/15/87: Mr. R. C. Mann, P O Box 156, Bouse, Arizona 85325, had (in 1982) a group of claims known as the G.M. Zinc Mine which cover the Mudersbach Mine (file) and the Mudersbach Gypsum Mine (file) in La Paz County.

KAP WR 6/5/87: John Rudd mentioned that he has done some cat tractor work on the Mudersbach Gypsum (file) La Paz County for a contractor that is going to try to ship gypsum to the Gold Bond Plant in Phoenix. Mr. Rudd said he has heard that Gold Bond's own gypsum deposit at Winkelman is having problems maintaining quality.

MINE AND PROSPECT FIELD VISIT DATA SUMMARY

Sheet 1 of 2

COMMODITIES Gypsum

MILS ID No. La Paz 809 Date March 18, 1987

ENGINEER Ken A. Phillips & Mike Greeley

INFORMATION FROM: Field Visit, March 18, 1987

PROPERTY SUMMARY

I. MINE NAME Mudersbach Gypsum OTHER POSSIBLE NAMES INCLUDING ANY CLAIM NAMES NOTED

II. LOCATION: T 5 N R 17W SEC(S) 6 NW MINE DISTRICT

ELEV. 1560 - 1600 COUNTY La Paz TOPO QUAD. Bouse 15'

DIRECTIONS see attached topo map

MAP ATTACHED yes

III. OWNERSHIP: NAME PHONE

ADDRESS:

COMPANY NAME IF ANY:

PERTINENT PEOPLE

IV. PROPERTY AND HOLDINGS:

V. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE 5,000 to 10,000 tons gypsum. Past production of gypsum is from a pit in the wash wall.

VI. CURRENT STATUS:

VII. WORKINGS: A few shallow pits, one pit 100 x 45 x 25 feet which was the source of production.

VIII. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: Contact metamorphic

LENGTH: ±1000 feet WIDTH: 3-20 feet VEIN STRIKE N20-30° E DIP NW

HOST ROCK: Limestone, partially marbleized, intermixed with gypsum

ECONOMIC MINERALS: Gypsum

COMMENTS: Gypsum varies from relatively pure granular material to poor quality gypsite intermixed with limestone. Gypsum likely derived from sulfurization of limestone.

IX. EQUIPMENT ON SIGHT: None. (remains of wooden loading chute for trucks)

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? One selected sample taken ADMMR No. 28218

XI. REFERENCES AND REMARKS

HC 146889

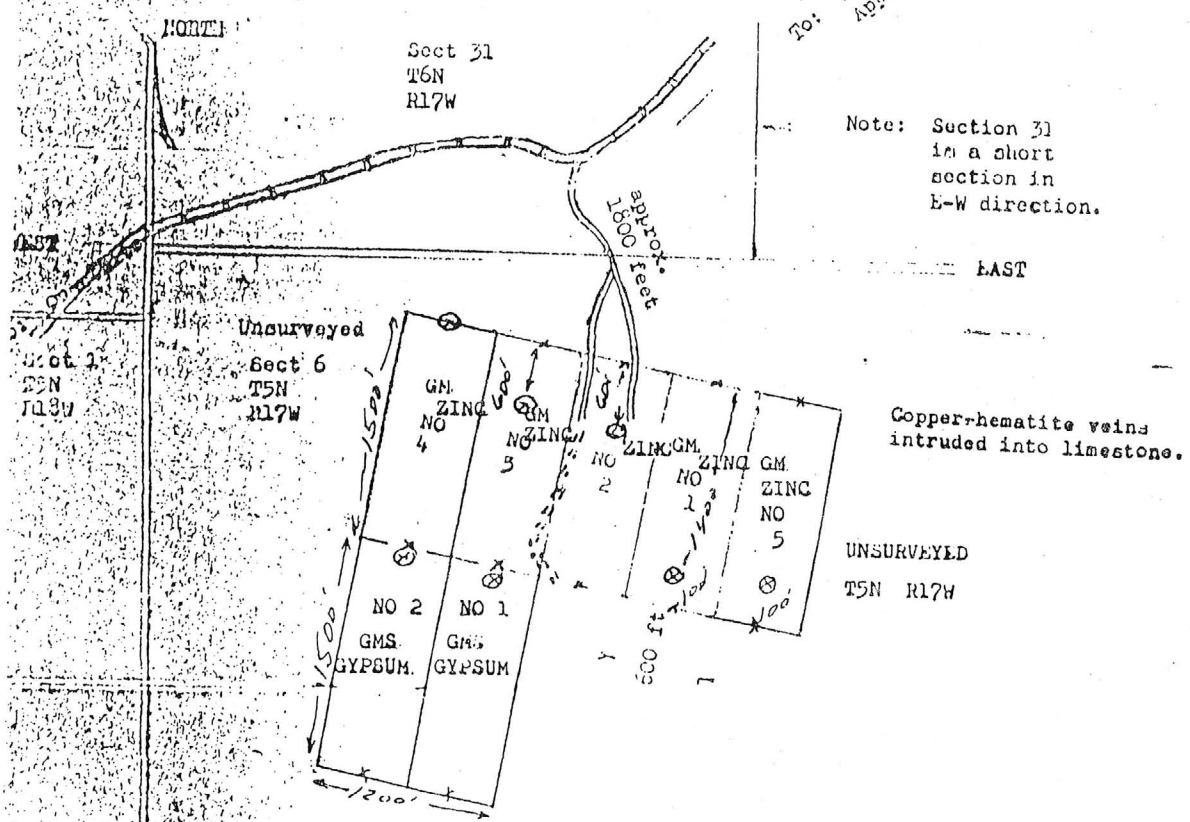
AMENDED - October 16, 1981

LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM MINE NO's 1 & 2

(Note :GMS Mine name changed to GM ZINC)

mm-82-8-0



GMS GYPSUM NO's 1 & 2 - Owned by C. Gingrich, R. C. Mann, & Ed Sloan.

GM ZINC NO's 1 thru 5- " " C. Gingrich, & R. C. Mann.

MAP SCALE - Approx. One (1") INCH Equals 990 feet.

LOCATION PLAT OF: GM ZINC MINE NO's 1 thru 5

& GMS GYPSUM NO's 1 & 2.

Located: Approximately 9 miles South West of Bouse, Arizona & 1800 feet South of the Bouse - Quartzite road. Claims are located in the Unsurveyed Section 6 of T5N & R17W in YUMA County, Arizona.

Corners: are 4" x 4" posts x 4 feet high plus a Center End line posts.

Owners: Mr. C. Gingrich, & Mr. R. C. Mann.

Date: September 27, 1981

As amended October 16, 1981

FILED BY: MR. R. C. MANN
P.O. BOX 156
BOUSE, ARIZ. 85325

ARIZONA STATE OFFICE LAND MANAGEMENT
DEC 24 1981
PHOENIX, ARIZONA

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

Date June 1946

1. Mine: Blue Moon Group
2. Location: Sec. ..... Twp. ..... Range ..... Nearest Town Bouse
   Distance 10 M Direction N? Road Condition Good
3. Mining District & County: .....
4. Former Name of Mine: .....
5. Owner: J. C. Townsend, et al
   Address: Bouse, Ariz.
6. Operator: .....
   Address: .....
7. Principal Minerals: Gypsum
8. Number of Claims: 6 Lode ..... Placer .....
   Patented ..... Unpatented .....
9. Type of Surrounding Terrain: .....

10. Geology & Mineralization: Sedimentary rocks, lime carbonate shale etc., intruded by igneous dikes.

11. Dimension & Value or Ore Body: Large thousands of tons.

12. Ore "Blocked Out" or "In Sight": .....

.....

.....

.....

.....

Ore Probable: .....

.....

.....

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

No.	Feet	Condition
Shafts		
Raises		
Tunnels		
Crosscuts		
Stopes		

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14. Water Supply: .....

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15. Brief History: .....

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16. Signature: .....

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17. If Property for Sale, List Approximate Price and Terms: .....

.....

June 29, 1945

Riverside Cement Company
Box 832
Riverside, California

Attention: Mr. Alex. S. Bilderback
Utility Engineer

Gentlemen:

In response to your letter of June 27 we are enclosing copy of Mr. Holt's report on the Blue Moon Group.

Yours very truly,

Secretary

lp
Enc.

3M 7-44

RIVERSIDE CEMENT COMPANY

MILL OFFICE
BOX 832
RIVERSIDE, CALIFORNIA

DEPT. MINERAL RESOURCES
RECEIVED
JUN 29 1945
PHOENIX, ARIZONA

June 27, 1945

Department of Mineral Resources
State of Arizona
Phoenix, Arizona

Gentlemen:

It is our understanding that you have a report in your files covering a deposit of gypsum located on the Blue Moon mining claims in the area of Bouse, Arizona. This report was made by Mr. Holt, one of your engineers. If you have copies of this report for distribution, we should appreciate your sending us a copy.

Yours very truly,

RIVERSIDE CEMENT COMPANY

Alex. S. Bilderback

Alex. S. Bilderback
Utility Engineer

ASB:M

CONCRETE FOR PERMANENCE

P. O. [illegible],
Kingman, Ariz.

Mr. J. C. Townsend,
Bouse, Arizona.

Blue Moon Mine

Dear Mr. Townsend:

Yesterday I had a talk with Mr. Lewis A. Dunham about the Blue Moon mine, located 10 miles South of Bouse. I found he had not left for New York, but will leave here for that city next Saturday.

As to terms, the ones quoted him in my letter of November 10th, are tentatively satisfactory, and he will work on the deal while in New York and will let us know results as soon as possible. He expects to be back here in about two weeks, possibly before I leave for Parker and Bouse. I will reach Bouse again on December 14th.

I have given Mr. Dunham the floor until his return, with the understanding we will agree to any reasonable change as to time payments to suit his clients, except the initial payment of $600.

In the meantime, it will be quite all right for you to make arrangements with the man you spoke to me about to take out a car or so of ore, on a verbal arrangement. In such event, and in case Mr. Dunham takes the property over he will need good men to do the work, and it is more than possible that your man could get a good job looking after the work, providing he is a skilled miner and I suppose he is from what you told me.

This property appeals to me as a most excellent mine, inasmuch as shipments of ore can be started almost immediately after work starts. As we discussed, the first work should be in the nature of sinking on ore in the open cut on the ridge, and if this good ore goes down, which I am sure it will, a cross-cut should be run to vein from the 100-foot level. Then if the ore is found in this cross-cut, the shaft should be reconditioned to the bottom thereof and another cross-cut run to vein.

I believe a lot of money can bemade out of this mine if adequately financed and expertly managed. In this regard, if Dunham takes the mine it will be in good hands, as he is a skilled mining engineer and knows his business all the way up and down the line.

Very sincerely yours,

Elgin B. Holt.

cc - Lewis A. Dunham

November 3, 1944

P. O. Box 188,
Kingman, Arizona.

Mr. J. C. Townsend,
Bouse, Arizona.

Dear Mr. Townsend:

I am herewith enclosing assay certificate from Smith-Emery Company, showing that the sample we took from the "Lime Reef", on the Blue Moon property, is not gypsum at all; that it is largely limestone, or lime carbonate.

I also sent a sample of this same material to the Arizona Assay Office, Phoenix. Sample was analyzed by Chas. A. Diehl; his results being as follows:

"CaO%	SO3%	H2O% (water)
49.02	0.10	0.37

Remarks: CaO is equivilent to 87.5% CaCo3. There appears to be about 4% silica and 1% Iron-Aluminum oxides, so there probably is around 8% MgCO3."

In other words, the sample submitted, per Diehl, runs 87.5% lime carbonate (CaCO3), and about 8% magnesium carbonate (MgCO3).

As I wrote you yesterday, I met Mr. J. W. MacDonald a day or so ago, and he informed me that he is working a limestone deposit near Chubbuck, California, and is shipping crushed limestone to the Kaiser Steel Plant at Fontana. He stated a good quality of lime carbonate at Bouse might be marketed to the Kaiser Company, and asked me to write him as to the results of the assays mentioned, which I am doing today. He also wants a sample of this material. So I suggest that you send him a sample of the clean lime carbonate material, from the Lime Reef", and he will have it analyzed. As you will note, both the Diehl and Smith-Emery results were rather indefinite, as to the grade of, or content of, lime carbonate in the samples sent them.

cc - J. W. MacDonald,
Chubbuck, California.

Very sincerely yours,

Elgin S. Holt.

TRINITY 4791

FORM 1

LABORATORY REPORT

SMITH-EMERY COMPANY

CHEMICAL ENGINEERS AND CHEMISTS
METALLURGICAL AND TESTING ENGINEERS
920 SANTEE STREET
LOS ANGELES 15

LABORATORY
No. 249899 *Date* November 2,1944

Sample Rock

Received 10-30-44 *Marked*

Submitted by Elgin B. Holt
P.O. Nox 188
Kingman, Arizona

REPORT OF DETERMINATIONS

Sulphuric Anhydride (SO_3) ---------- Nil

Remarks:
The sample is largely limestone (calcium carbonate)

Respectfully submitted,

Smith-Emery Co.
CHEMISTS AND ENGINEERS
OCB

Nov. 7, 1944

P. O. Box 188,
Kingman, Arizona.

Mr. John L. McQueen,
Care Mr. George McQueen,
616 First National Bank Bldg.,
Fort Worth, Texas.

Dear Mr. McQueen:

At the request of Mrs. Botzum, I mailed you last night a brief, and rather hurried, report on the Blue Moon mining property, including a rough sketch map of the same.

Today, in looking over my copy of this report, I found I made several minor errors in Page No. 2 of the same. One thing in particular, in copying the analysis of the gypsum sample, we had made some time ago, I left out the water content, 20.49%.

So I have rewritten the entire page, #2, which please substitute in my report, destroying the one I mailed you yesterday.

As to its growing uses, gypsum is used as mined, after grinding, as a soil conditioner and fertilizer, particularly on alkall soil, as a retarder in the manufacture of Portland cement, as a filler in paint, paper and cloth, as a raw material in the manufacture of certain chemicals and insecticides.

Its chief uses is in its calcined form. When heated in rotary kilns, most of its water of crystallization is driven off. The product is Plaster of Paris, for which it is used, also for various plasters and for the manufacture of wall board, plaster board, insulating board, partition tile, and blocks for building houses.

All in all, its uses are increasing rapidly; so it is my opinion that after the war is over, there will be a ready and growing market for the products of gypsum above outlined. In the first place the property must be developed. Secondly, a grinding mill should be installed, followed by a factory to produce some of the products mentioned.

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

cc - Clara Osborne Botzum
J. C. Townsend

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine BLUE MOON GROUP

Date November 6, 1944

District Plomosa, Yuma County, Arizona.

Engineer Elgin B. Holt,
P. O. Box 188,
Kingman, Arizona.

Subject:

R E P O R T

OWNERS: J. C. Townsend, et al, Bouse, Arizona.

METALS: Copper, gold and silver.

NON-METALLICS: Gypsum, occuring in massive deposits separate from veins which carry copper, gold and silver.

LOCATION: AREA:

The property consists of six mining claims, known as: Blue Moon Nos. 1, 2, 3 & 4, and Copper Hill and Copper Hill No. 1. The group is located about 10 miles south of Bouse, Arizona, with which village it is connected by means of a State maintained highway, which passes within a half mile of property. A dirt road leads from this highway to the various claims of group. There is a loading ramp at Bouse, which is a station on the Santa Fe Railroad. Cost of hauling ore or gypsum from the mine to Bouse is estimated at 50¢ per ton.

HISTORICAL:

In 1889 this property was located by Gustave Ludersbach, who around 1910, gave a lease and option on it to George Mitchell, who was then operating the Swansea Copper Mine, situated 25 miles north of Bouse. Purchase price mentioned in this option was $250,000. Tom Varden was superintendent and sank a vertical shaft on the Blue Moon No. 1 claim to a depth of around 400 feet, and another shaft on the Copper Hill claim to a depth of 200 feet. No cross-cutting at all was done from the bottom of the said 400-foot shaft in order to pick up the main vein, which runs from northwest to southeast and passes within 100 feet of said shaft. But the vein was found by cross-cutting

in the said 200-foot shaft in the Copper Hill claim and several carloads of copper ore were shipped to Swansea, where Mitchell was then operating a smelter. Mitchell stopped work at the Blue Moon mine at the time when he closed Swansea down, leaving Blue Moon in a partly developed condition.

The above information was given me by Judge Bellus, who has been a resident of Bouse for a number of years.

GEOLOGY - VEINS:

The primary country rocks within the confines of this group are of sedimentary origin, probably of Permian age, consisting of lime carbonate, shales, etc., which have been intruded by basic igneous dikes. Also, within the Blue Moon claims are large deposits of gypsum, which is a hydrous calcium sulphate, $CaSO_4.2H_2O$. These deposits are no doubt a product of volcanic activity where the sulphuric acid fumes from fumeroles have acted on the lime carbonate beds transforming large areas of the same into gypsum, leaving huge reefs of unaltered lime carbonate traversing the property, and these reefs lie adjacent to beds of almost pure gypsum. One pilot sample of this material taken by me assayed as follows, to-wit:

Lime oxide (CaO)	31.90%
Sulphuric Anhydride (SO_3)	45.71%
Total Water (H_2O)	20.49%
Hydrous calcium sulphate ($CaSO_4.2H_2O$) - gypsum	98.10%

While the gypsum beds mentioned are as yet undeveloped, from surface exposures I would say, by and large, there are hundreds of thousands of tons of this material indicated within the property. Some of it can be removed by open pit methods; but later on underground methods will have to be employed, as the gypsum occurs in well-defined strata which seem to be deep-seated.

CONCLUSION:

As far as the copper showings on this property are concerned, considerable new work will have to be done in order to prove, one way or the other, whether important copper ore reserves exist at deeper levels in this property. In this regard, the first step to take would be to recondition the 400-foot shaft mentioned and then run a cross-cut to vein, from the 400-foot level. On the surface this vein is about 20 feet wide, it being in the nature of a mineralized fault zone. Ore in surface workings is oxidized material, occurring with horses and wedges of brecciated country rock. Four tons of ore on dump, at Blue Moon, assayed as follows:

Gold-oz	Silver-ozs	Copper-%
0.20	6.20	5.20

Another sample taken in place, across about 10 feet of vein width, in a 10-foot holeon vein, near the said 400-foot shaft, assayed:

Gold-oz	Silver-ozs	Copper-%
0.03	1.82	1.4

By running such a cross-cut from the 400-foot level, and by thus cutting the vein at that level, it can be proven once and for all whether the vein at that point has commercial values or not. Also sulphide ores, easily amenable to flotation treatment, should be found, if at all, in the said cross-cut, once the vein is reached.

GYPSUM:

The gypsum deposits on this property seem to have far more potential value than the copper showings. In the first place, the grade of the gypsum, as far as we now know, is excellent. In the second place, a large tonnage is indicated. Thirdly, the gypsum can be trucked to the railroad at Bouse at a low cost. Hence, the only factor to consider, or mainly so, is the market for the gypsum.

Elgin B. Holt

Elgin B. Holt,
Field Engineer.

11-4-44

To: Damming

From: Hal

Yes; this assay should be paid for by the Dept. It is from the Blue Moon mine, owned by J. C. Townsend of Bouse.

This is property in which there is a deposit of gypsum, under option to Clara Botzum.

There is a huge "Lime Reef" (adjacent to gypsum beds) which I thought might be crystalline gypsum. Sample comes from this reef. But it turned out to be "lime carbonate" and not gypsum, per this assay.

E. B. Hoct.

DEPT. MINERAL RESOURCES
RECEIVED
NOV 6 1944
PHOENIX

Phoenix, Arizona,

Oct. 30, 1944.

Ark Hot.

CHAS. A. DIEHL

ASSAY OFFICE

North First Street P. O. Box 1148

; of Mineral Resources contain as follows per ton of 2000 lbs. Avoir.

) mdths	VALUE (Oz.)		TOTAL VALUE Of Gold and Silver		PERCENTAGE % CaO	% SO_3	% H_2O		REMARKS
					49.02	.10	.37		

Assayer ARIZONA ASSAY OFFICE

No. 155 De

Phoenix, Arizona,

Oct. 30, 1944.

Ask Holt.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies That samples submitted for assay by Dep't of Mineral Resources contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	% PERCENTAGE CaO	% SO3	% H2O	REMARKS
E.B.Holt.								49.02	.10	.37	
Blue Moon mine,											
Bouse, Ariz.											

Charges $ 4.50

Assayer ARIZONA ASSAY OFFICE

Nov. 3, 1944

P. O. Box 188,
Kingman, Ariz.

Hon. Clara Osborne Botzum,
Parker, Arizona.

Dear Clara:

I am herewith enclosing a copy of assay certificate, showing that the "Lime Reef" running through the Blue Moon ground is not gypsum at all; it being lime carbonate. If it had been gyp, it would have added materially to the tonnage of this property.

Kindly let me know how you cameout in your interview with Townsend. So far I have not heard from him about it. As I told you, it was up to Mr. McQueen as to whether he wanted to go ahead or not, as Townsend intended to respect his 30 days option. All in all, I wrote Townsend leaving the matter to be settled by him and yourselves.

With very kind regards, I am

Sincerely yours,

Elgin R. Holt.

INVOICE

SMITH-EMERY COMPANY

FORM 6 10M 7-44

CHEMICAL, PHYSICAL, AND METALLURGICAL LABORATORIES

Chemists - Engineers

TELEPHONE TRINITY 4791

920 SANTEE STREET
LOS ANGELES 15, CALIFORNIA

November 2,1944

In Account with Elgin B. Holt,
P.O. Box 188
Kingman, Arizona.

TERMS: Net. This is a professional labor bill and is due upon presentation.

E. & O. E.

TO PROFESSIONAL SERVICES

Lab.No. 249899 Determining Sulphuric Anhydride in sample of Rock ---------- $2.50

OUR LIABILITY FOR ERROR OR NEGLIGENCE IN CONNECTION WITH THE WORK AND REPORT COVERED BY THIS BILL IS LIMITED TO THE ABOVE AMOUNT.

No. 155 De

Phoenix, Arizona,
Oct. 30, 1944.

CHAS. A. DIEHL

ARIZONA ASSAY OFFICE

Phone 3-4001 — 815 North First Street — P. O. Box 1148

This Certifies That samples submitted for assay by Dep't of Mineral Resources contain as follows per ton of 2000 lbs. Avoir.

MARKS	SILVER Ounces	SILVER Tenths	VALUE (Oz.)	GOLD Ounces	GOLD Hundths	VALUE (Oz.)	TOTAL VALUE Of Gold and Silver	PERCENTAGE % CaO	PERCENTAGE % SO_3	PERCENTAGE % H_2O	REMARKS
E.B.Holt.	CaO is equivalent to 87.5% $CaCO_3$							49.02	.10	.37	
	There appeared to be about 4% silica and 1%										
	(Iron & Al. oxides), so there probably is around										
	8% $MgCO_3$ -										

Charges $ 4.50

Assayer ARIZONA ASSAY OFFICE

[signature]

Dec. 1, 1943

P. O. Box 188,
Kingman, Ariz.

National Gypsum Co.,
608 16th St.,
Oakland, Calif.

Gentlemen:

Would your company be interested in a high quality gypsum deposit, located 10 miles south of Bouse, Arizona? There is a good road leading from property to Bouse over level ground. Also Bouse is a station on the Santa Fe Railroad; and at the said station there is an excellent loading ramp.

Property belongs to J. C. Townsend, Bouse, Arizona.

The deposit mentioned is large, consisting of beds of pure gypsum forming small hills, and can be mined by open pit and power shovels; hence, by the use of large Diesel trucks, this material should be mined and loaded on cars at Bouse for less than $1.00 per ton.

An analysis shows that the gypsum of this deposit runs close to the chemical analysis of pure gypsum, as follows:

Sulphur trioxide	46.6%
Lime (CaO)	32.5%
Water	20.9%
	100.00

If interested, kindly communicate with Mr. Townsend, as per above address; cc to me.

Very sincerely yours,

Elgin E. Holt,
Field Engineer.

Nov. 23, 1943

P. O. Box 188,
Kingman, Arizona.

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

Dear Mr. Matthews:

Can you find a market for high quality gupsum? Mr. J. C. Townsend, Bouse, Arizona, owns such a deposit located 10 miles south of that place, and connected with Bouse, where there is a loading ramp, by means of a good truck road.

We had this gypsum analyzed and it ran close to the chemical analyis of pure gypsum, as follows:

Sulphur trioxide ---	46.6%
Lime (CaO) ---------	32.5%
Water ----------	20.9%
	100.00

Townsends deposit is large and can be mined by open pit work. If you can find a market in car lots for this material at a fair price, kindly let me hear from you.

Very sincerely yours,

Elgin B. Holt.

cc - J. C. Townsend,
Bouse, Arizona.

Nov. 3, 1944

P. O. Box 188,
Kingman, Ariz.

Mr. J. N. MacDonald,
Chubbuck, Calif.

Dear Mr. MacDonald:

I am herewith enclosing cc of a letter I have just mailed to Mr. J. C. Townsend, owner of the Blue Moon mine, near Bouse, Arizona.

As I told you, in this property is a large deposit of soft hydrous gypsum, which we had analyzed, the results being as follows:

CaO ----------	31.90%
Sulphuric Anhydride (SO_3) -	45.71%
$CaSO_4.2H_2O$ ----------	98.10%

The gypsum occurs in strata from 20 to 40 feet thick, with some overburden to handle.

The Lime Reef mentioned is quite extensive and has no overburden at all. It runsthrough the gypsum beds.

You will note that the assays made by Diehl, of Phoenix, were not conclusive, so I am asking Townsend to send you a sample of this material, for your consideration. If you decide to have it analyzed, kindly let me have results. Also, if this material should meet your requirements, we would be pleased to have you look the property over.

With kind personal regards, I am

Very sincerely yours,

Elgin B. Holt,
Field Engineer.

MINE AND PROSPECT FIELD VISIT DATA SUMMARY

COMMODITIES Gypsum

MILS ID No. La Paz 809 Date March 18, 1987

ENGINEER Ken A. Phillips & Mike Greeley

INFORMATION FROM: Field Visit, March 18, 1987

PROPERTY SUMMARY

I. MINE NAME Mudersbach Gypsum OTHER POSSIBLE NAMES INCLUDING ANY CLAIM NAMES NOTED

II. LOCATION: T 5 N R 17W SEC(S) 6 NW MINE DISTRICT

ELEV. 1560 - 1600 COUNTY La Paz TOPO QUAD. Bouse 15'

DIRECTIONS see attached topo map

MAP ATTACHED yes

III. OWNERSHIP: NAME PHONE

ADDRESS:

COMPANY NAME IF ANY:

PERTINENT PEOPLE

IV. PROPERTY AND HOLDINGS:

V. PAST PRODUCTION - NOTED, KNOWN, PROBABLE, UNKNOWN, NONE 5,000 to 10,000 tons gypsum. Past production of gypsum is from a pit in the wash wall.

VI. CURRENT STATUS:

VII. WORKINGS: A few shallow pits, one pit 100 x 45 x 25 feet which was the source of production.

VIII. GEOLOGY AND MINERALOGY: DEPOSIT TYPE: Contact metamorphic

LENGTH: ±1000 feet WIDTH: 3-20 feet VEIN STRIKE N20-30° E DIP NW

HOST ROCK: Limestone, partially marbleized, intermixed with gypsum

ECONOMIC MINERALS: Gypsum

COMMENTS: Gypsum varies from relatively pure granular material to poor quality gypsite intermixed with limestone. Gypsum likely derived from sulfurization of limestone.

IX. EQUIPMENT ON SIGHT: None. (remains of wooden loading chute for trucks)

X. SAMPLING: NOTE TYPE IF ANY, DRILLING? One selected sample taken ADMMR No. 28218

XI. REFERENCES AND REMARKS