

CONTACT INFORMATION

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 09/12/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: WINKELMAN GYPSUM

ALTERNATE NAMES:

SUPERIOR COMPANIES

PINAL COUNTY MILS NUMBER: 390A

LOCATION: TOWNSHIP 6 S RANGE 16 E SECTION 27 QUARTER SE LATITUDE: N 32DEG 52MIN 43SEC LONGITUDE: W 110DEG 41MIN 28SEC

TOPO MAP NAME: DUDLEYVILLE - 7.5 MIN

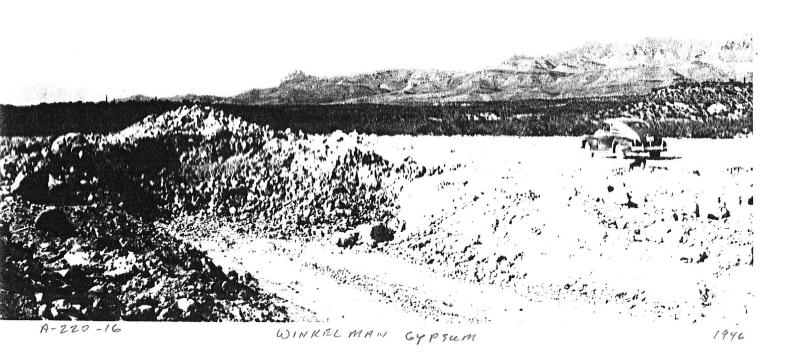
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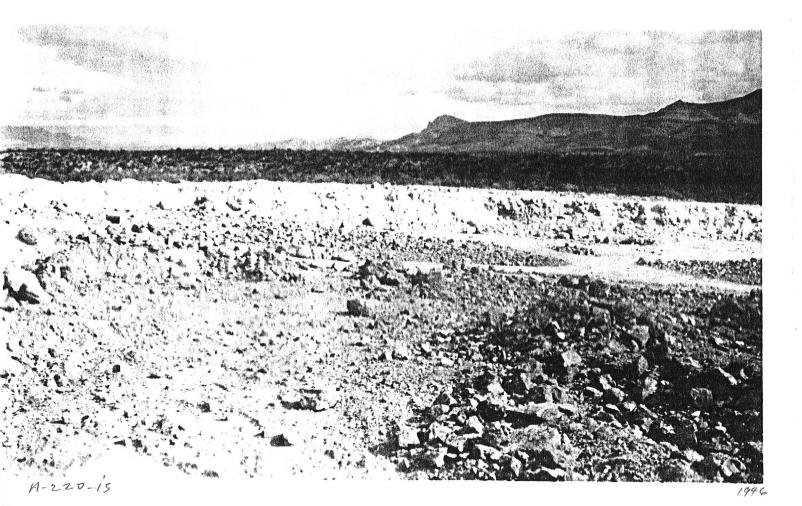
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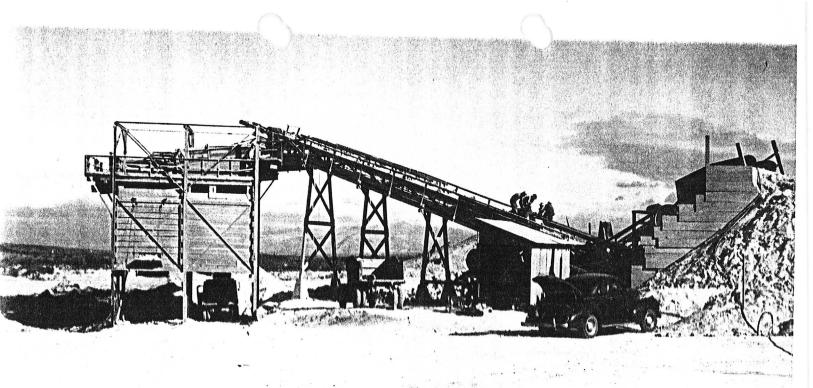
GYPSUM ROCK GYPSUM

BIBLIOGRAPHY:

ADMMR WINKELMAN GYPSUM FILE ADMMR U FILES AZBM BULL. 180, MINERAL AND WATER RESOURCES OF AZ. 1975, P. 329, 338 & 375 ELEVATORSKI, E.A., AZ INDUSTRIAL MINRALS 1980, P. 54 ADMMR DIRECTORY OF ACTIVE MINES '74 - '94 ABM Bull. 180, p. 329, 338, 375



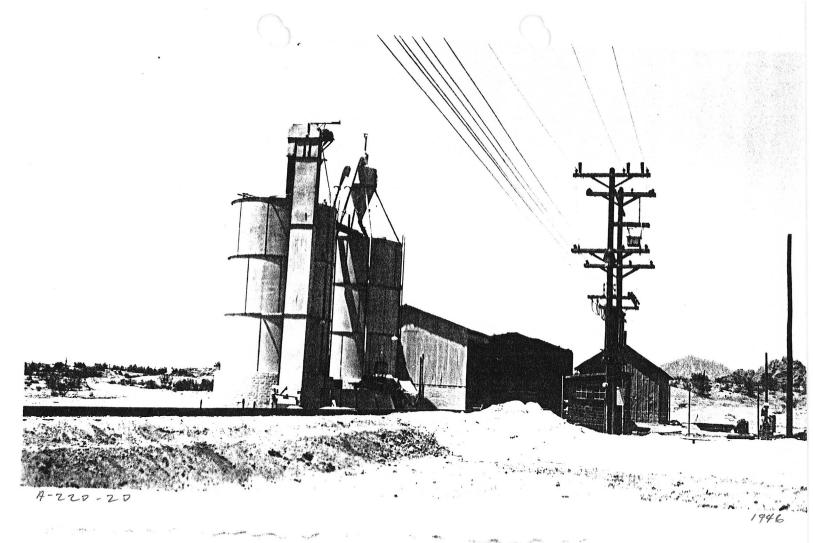




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DEPARTMENT OF MINERAL RESOURCES

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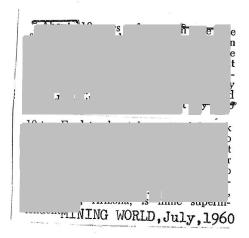
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NIME OF MINE: ARIZONA GYPSUM OWNER:

COUNTY: Pinal
DISTRICT:
METALS: Gypsum

1 4		0 1		
Date: \(\)	DPERATOR AND ADDRESS Earl Stark, Mgr., Phoenix Plant in Phoenix - mine near Winkelman	MINE STATUS Date: Manufacturing		
	*			



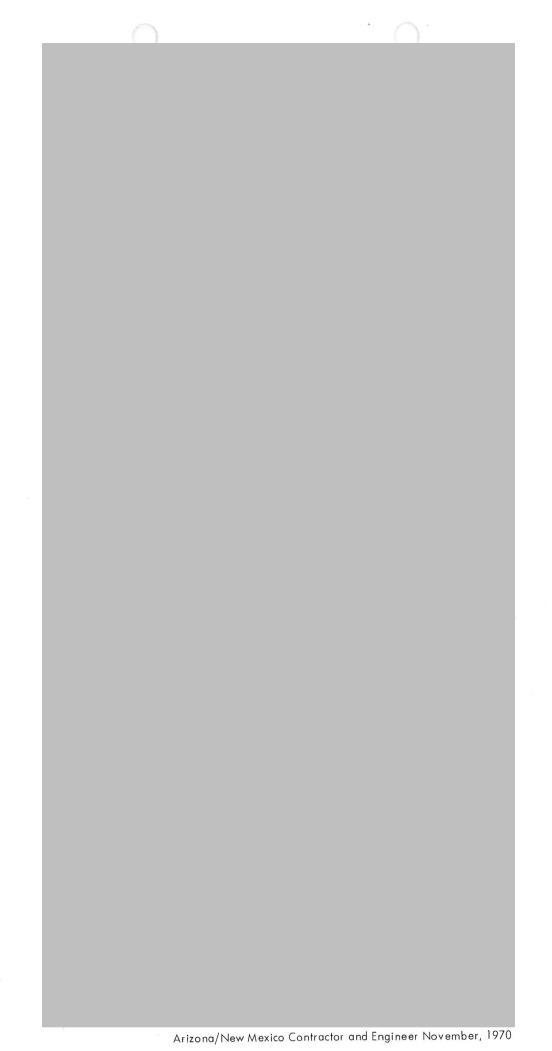
Active, Sept. 1960, Feb. 1961

DECEMBER 1963, MINING ENGINEERING-

0 Q X 5-10 : 1964

METAL MINING & PROCESSING, May, 1964

See: Metal Mining and Processing May 1964 p60



Date Printed: 12/03/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: Russ Mosier

Company:

Rotomil

Address:

City, State ZIP:

Phone:

MINE:

Winkleman Gypsum

ADMMR Mine File:

Winkleman Gypsum

County:

Pinal

AzMILS Number:

390A

SUMMARY

The three page report that follows describes a test application of a rotory excavator at three mines in Arizona.

The mines are the Winkleman Gypsum Mine in Pinal County, the St. Johns Limestone Mine in Apache County, and the Camp Verde Gypsum Mine in Yavapai County. All were owned and operated by Superior Companies at the time of the tests.

Copies of the report are included in the appropriate mine files because it includes some operating and deposit information regarding each operation.

Ken A. Phillips, Chief Engineer D

Date: December 1, 1996

Mosier on Winklemon Gypsum Page 10/4

RH

Penal County

SUPERIOR COMPANIES

100 W. Coolidge, Phoenix, AZ 85006 - Phone 230-9300 - Employees: 70. President Archer V. Shelton Vice President, Administration Mary Kessler Vice President, Finance Don Fischer

Winkelman Gypsum T6S R16E Sec. 27
P.O. Box 327, Winkelman, AZ 85292 - Phone 357-7002 - Gypsum Quarry - Gypsum for Arizona Portland Cement Plant at Rillito.
Superintendent John Nevitt

100 W. Coolidge, Phoenix, AZ 85006 - Phone 23	0-9300 - Employees: 70.
President	Archer
V. Shelton	
Vice President, Administration	Mary Kessler
Vice President, Finance	Don Fischer
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P.O. Box 327, Winkelman, AZ 85292 - Phone 3	
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Superintendent John Nevitt

1700 N. 7th Street #5, Phoenix 85006 - Phone 253-2116 - Employees 70.			
President			
Winkelman Gypsum P.O. Box 327, Winkelman 85292 - Phone 357-7002 - Gypsum Quarry gypsum for Arizona Portland Cement Plant at Rillito.			
Superintendent John Nevitt			

WINKELMAN GYPSUM

PINAL COUNTY

NJN WR 12/4/87: Lester Hall (card) of the Superior Companies (card) reports that Pinal AZMILS #395, T5S R15E Sec 26, is not the site of their Winkelman Gypsum mining operation, but was a loading facility. Their Winkleman Gypsum (file) is located on patented land south of the San Carlos Reservation and north of National Gypsum's Feldman Quarry at Pinal AZMILS 390A, Gypsum Mines. Thus 390A should be renamed Winkelman Gypsum and 395 should be deleted.

NJN WR 9/2/88: Rhyne Simpson Jr. of Snate Fe Resources (card) have acquired the Sante Fe Claims which are located at T6S R16E Secs 21, 23, 24, 28, surrounding and may include areas of the Fedlman Quarry (file) and Winkleman Gypsum (file) Pinal County which supplies gypsum to National Gypsum Wallboard plant in Phoenix.

ARIZONA GYPSUM PINAL COUNTY

D. E. Forty diatom claims, Arizona Gypsum still operating. GWI WR 2-1-69

Jim Nickerson of Mammoth hauls a load of diatomaceous earth to Feldman for Arizona Gypsum each working day. The material is from the D.E. forty. GWI WR 2-1-69

Active Mine List April 1969 - 8 men (gypsum)
2 men (diatomite)
1 man (redimix plant)

Visited the Gypsum plants at Feldman - no change in rate of production or personnel. FTJ WR 9-26-69

Active Mine List Oct. 1969 - 8 men (gypsum)
2 men (diatomite)
1 man (redimix plant) Sec. 35, 6S, 16E

About one truckload a day of diatomaceous earth is being mined near White Cliffs by Arizona Gypsum Company on their 40 acre claim. No activity noticed on the White Cliffs property. GWI QR 2-27-70

Active Mine List May 1970 - 8 men (gypsum)
2 men (diatomite)
1 man (redimix plant) William Kessler, Pres.

Arizona Gypsum continued mining diatomaceous earth on their claim in the White Cliffs area. GWI QR 6-30-70

Arizona Gypsum still mining on their claims in the White Cliffs area. GWI WR 10-31-70

Active Mine List Oct. 1970 - 10 men - G. M. Champie - Supt. - 2255 So. 19th Ave. Phoenix

To Arizona Gypsum plant - no change in operation. FTJ WR 1-29-71

National Gypsum and Superior Companies (Arizona Gypsum) produced at their regular rate. FTJ QR 9/71

Superior Industries gypsum operation and National Gypsums operations were at their regular rate. FTJ QR 71-72 2nd $\frac{1}{4}$

Visited Superior Industries gypsum plant at Feldman. D. N. "Bud" South is the Superintendent and 7 men employed. They deal in RediMix, gypsum and diatomite. FTJ WR 6/16/72

ARIZONA GYPSUM PINAL COUNTY

Visited Arizona Gypsum who are operating at normal rate. Their gypsum use is diversified. FTJ WR 9-30-67

Visited Gypsum plant - operation is about normal. FTJ WR 1-27-67

Visited Arizona Gypsum quarry and plant - very active - producing both diatomaceous earth and gypsum. FTJ WR 5-31-67

Visited Arizona Gypsum - operating about as usual. FTJ QR 1-26-68

Visited Arizona Gypsum Corp. - White Cliffs - some activity - no one around. GWI WR 1-27-68

Visited Arizona Gypsum who are operating at regular rate, both gypsum and diatomite. FTJ WR 3-29-68

Active Mine List Oct. 1967 - 9 gypsum 3 diatomite

Arizona Gypsum was mining and shipping some diatomaceous earth from their property in the White Cliffs area. GWI QR April 1968

Active Mine List April 1968 - 9 men (gypsum)
" " - 3 men (diatomite)
" " Oct. 1968 - 9 men (gypsum)
" " - 3 men (diatomite)

Visited Feldman gypsum operations - operating about the same as on my last visit. FTJ WR 5--31--68

Arizona Gyspum mining Diatomaceous earth, no one around. GWI WR 6-30-68

Arizona Gypsum is still mining and shopping diatomaceous earth from the D.E. forty claims that belong to Neil Vogel. GWI QR June 1968

Visited gypsum operations - operating as during last visit. FTJ WR 9-27-68

Visited Arizona Gypsum - they were producing at their regular rate. FTJ WR 1-31-69

Arizona Gypsum continues to mine a truckload per day (approx.) from the D.E. forty claims in the White Cliffs area. This is trucked to their plant for further processing. GWI QR December 1968

ARIZONA GYPSUM, FELDMAN MINE

PINAL COUNTY

VISIT and CONFERENCE with JIM CHAMPIE, Foreman

1/29/64.

A new portable Cedar Rapids jaw crusher and attached vibrating screen is set up in the pit. This machine is 24x36 inches and discharges directly into a hopper. The cleaned gypsum is stock piled near the pit and at the plant, which is 3/4 mile south of the pit. The waste (fines) is dumped into the worked-out portion of the pit. The broken ore is leaded with a No.1165 Allis-Chalmers, 2-yard Front loader that travels on cats. This machine has long dipper arms allowing for about 11-12 feet of dumping height, into the crusher-feed hopper. The pit yields a fair number of oversize "nigger heads" that must be drilled and shot. A new drilling pattern has been worked out, this breaks the gypsum more consistently smaller than previously. It is also calculated to permit a higher working face. Bill Kessler stated that the agricultural gypsum market is holding well.

MEMO Lewis A. Smith 1/29/64

Visited Arizona Gypsum Co. plant, no activity.

EGW WR 3/27/64

"REVIEW OF RECENT ACTIVITY" Taken from Axel L. Johnson 12/29/64 Report in the Whitecliffs Mine file.

Field engineer visited the property on September 24, 1964. At the time of this visit the mill used by the Arizona Gypsum And Associated Minerals, Sub-Lessees, was still in place and operative. Engineer was informed that it was closed temporarily on account of wet weather.

A short time subsequent to this, it was reported that the mill had been dismantled and removed from the property.

It is reported that the Arizona Diatom Corp. has now acquired the interests of the previous sub-lessees.

No plans have been announced regarding the resumption of mining operations at the property.

ALJ Rep in Whitecliffs file.

Visited Arizona Gypsum plants near Feldman. Arizona Gypsum has moved their diatomaceous earth mill to the Gypsum plant and expect to increase production soon. Some of the production is also going to Portland Cement, Rillito.

EGW WR 3/26/65

Visited Arizona Gypsum Active - 9 men working.

FTJ WR 10/1/65

Arizona Gypsum mill and quarry both operating. Diatomaceous earth bagged in same plant.

FTJ WR 1/28/66

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ARIZONA GYPSUM

Date

September 30, 1963

District FELDMAN AREA, SAN PEDRO DISTRICT

Engineer

LEWIS A SMITH

Subject: Interview with William Kessler, Manager,

9/23/63

Mr. Kessler said they had had a demand lag during the summer, but in September the demand stepped up somewhat. This lag was indirectly attributed to slack off in building in summer. He also mentioned that the demand at the Camp Verde plant had held up well.

12/12/63

Arizona Gypsum Co. addivise that the complicated royalty set-up made the Whitecliffs property unattractive to them. They have therefore leased and adjacent property which is said to be somewhat inferior but amenable to beneficiation. (diatomaceous earth).

Memo F.P. Knight 12/63

The stockholders and directors of Arizona Gypsum Corp. and American Diatomes, Inc., have approved a merger, according to John F. Fisher of Phoenix, and A. V. Partipilo, M.D., of Chicago, chairmen of the boards of directors of the two Arizona corporations. The merger effected through an exchange of stock, brings gypsum bentonite clay and diatomite into the same marketing and mine operation.

The board of directors of the combined companies will include John F. Fisher of United Materials, Inc., W. O. Wood of Wood Concrete Co., John Hazelett of Superior Equipment Co., and William J. Kessler, Gordon R. French, James M. Champie and Woodrow W. Diehl, all of the Arizona Gypsum Corp. The company will retain the name of Arizona Gypsum Corp. with offices in Phoenix. Mr. Fisher will serve as president.

MINING ENGINEERING DECEMBER 1963

Active Mine List Oct. 1963 - 6 men

TEST & EVALUATION OF CAT MODEL PR450 PROFILER (ROTOMILL) IN LIMESTONE AND GYPSUM QUARRIES

On Tuesday, February 10, 1987, we began testing and evaluation of a CAT model PR450 Rotomill for harvesting gypsum and limestone in quarries operated by Superior Companies. This report will summarize our observations.

Our objective is to determine if a rotomill is capable of singlehandedly excavating, crushing and loading gypsum and limestone.

<u>Winkleman</u> — At this operation, gypsum is drilled and shot, loaded into a 35 ton off-highway truck, hauled to a stockpile for crushing and screening, and then stockpiled off of conveyors.

We established that the PR450 could get adequate production in this material without overloading the machine. Travel speeds ranged from 25 to 75 feet per minute, the depth of cut from 2 to 6 inches. We timed and weighed two loads and established the 450 was producing 203 tons per hour working on the level, and 237 tons per hour working down a 7% grade.

The material here is not very abrasive; wear life of the teeth will be measured in weeks and months, not hours or days.

The water spray system on the 450 does wonders for dust control and has no significant adverse affect on loading and handling material.

Amount of Fines - Right from the start, our main concern at this site was to harvest material with minimum fines; they prefer two inches and larger particle size. In order to increase particle size, we ran the PR450 with one half of the teeth removed, and with two thirds of the teeth removed. We found that a four inch depth of cut, 40 feet per minute travel speed, going up a 7% grade, with one-half of the teeth removed produces the least amount of fines with mostly two inch and larger particle size.

The concern about fines is specifically a concern about clay material which may be predominant in the fines; this diminishes the purity of the gypsum product. Gypsum fines are no problem, but clay fines are. Perhaps the best way to deal with this is to avoid mixing the two materials. At this operation, there are relatively thin layers of clay inbetween the thicker layers of gypsum. When you drill and shoot this formation, you can't help but mix the two. The Rotomill gives you the ability to be very selective about what you harvest. You can work a gypsum seam right down to where the clay layer starts, then either stop milling and remove the clay with a loader or a broom, or continue milling but divert the clay as it comes off of the belt to a separate windrow as waste. One thing for certain regarding sizing of material: the PR450 won't leave material that must be dealt with with an air hammer and chisel.

Stockpiles The finished product coming off of the PR450 belt can be loaded directly into trucks, or stockpiled in windrows two or three passes high on 25 foot centers. This type of stockpiling may present less segregation problems and may dry out quicker and more completely following rainfall than a tall stockpile.

Mosier on Winklemon Gypsun Page 2 0/4

St. Johns, Arizona - Limestone Quarry

precipitating agent

Here, Superior Companies is harvesting porous limestone which is used primarily at the St. John's power plant as a precipitate in their polution control system. Material is normally ripped and dozed to the crusher. The typical production rate is about 135 tons an hour.

We ran the PR450 here on February 16 and 17; we started with one half of the teeth removed, but found that this material is so tough that you need all of the teeth working at it. Surprisingly, going to the full set of teeth didn't seem to affect material size much; we consistently saw a fairly large percentage (say 10%) of slabs about six inches across and maybe one inch thick - that's just the way it broke out. We should be able to reduce the amount of this slabbing by running the machine down a seven to ten percent grade and thereby retaining the material in the cutter housing longer.

The PR450 was able to excavate and load 150 - 155 tons per hour in the red and white limestone formation picked for this test - thought to be the toughest material in this pit. Travel speed was typically about 20'/minute. On the 2nd day, average production increased to 195 tons per hour.

We expect to see more tooth wear here, but nothing excessive. We did break six teeth. The machine is shipped with asphalt teeth, and as they break, we're replacing them with a concrete tooth which is more resistant to impact like we have in this limestone. We've replaced another six or so that were unevenly due to nonrotation. Some of those teeth showed signs of rust on retainers, and that may have been caused by weathering before the machine was shipped from the factory.

This material is tough enough that it caused some chunks of rubber to be torn loose from the track shoes.

CAMP VERDE

Here, gypsum is ripped, either with a dozer tractor, or with rippers installed on the rear of a Euclid TS-14 scraper, then loaded by the scraper and hauled to their screening and crushing plant. Typical production rates are approximately 115 tons per hour. The PR450 was able to excavate and load 211 tons per hour going up a 6% grade, and 301.5 tons per hour going down that same grade. Some 90-95% of the material produced was 2" minus. The depth of cut varied from 6" to 12". Since fines are desirable here, we ran with all teeth installed.

Here, the distance from the material face to the screening/crushing plant will require more than a pair of trucks to keep up with the PR450. One solution to this may be to run an adequate number of 'pups' (4 wheel trailers) that can be towed behind the PR450, loaded, and then towed by the truck/tractor to the dump location.

Mosier on Winkleman Gypsum Page 30/4

Job Layout and Machine Utilization

Perhaps the best way to get maximum utilization of the PR450 in Superior's operations would be as follows:

- 1. Work the PR450 on as long of a pass as possible, thus reducing turnaround and maneuver time. You can control slopes and grades for run off and drainage purposes, and you'll soon have a very smooth pit surface.
- 2. Load trucks off of the belt during cutting operation; loading the material while you've got it 'on the move' eliminates one more time that it must be handled, and gets it away from the cut area and out of the way immediately.
- 3. Dump the truck loads into a separation device, and let the material that is sized suitably as the finished product go directly to a stockpile, with over-sized material diverted to a separate stockpile which will require crushing.

Based on annual production requirements of approximately 40,000 tons at both Winkleman and St. John's, and approximately 30,000 tons at Camp Verde, one PR450 could harvest these annual production requirements as follows:

- 1. Winkleman 2.0 months of operating time.
- 2. St. John's 3.0 months operating time.
- 3. Camp Verde 1.4 months operating time.

(Based on single shift, 176 hours per month, 50% machine efficiency.)

This would leave some 47% reserve time for moving the machine, for maintenance and repair, or for expansion of production.

. Russ Mosier

dt

cc: Grant Baecker Frank Vukov

Mosier on Winkleman Gypsum
Page 40/4

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Winkelman Gypsum Plant

Date December 11, 1973

District Garcia Canyon

Engineer R.E. Lehner

Subject: Report on mine visit.

Location: Approx. 8 miles S of Winkelman (T 6 S, R 16 E, Sec. 26.)

Supt. Bud South, P.O. Box 327, Winkelman, Arizona 85292 - Phone: 356-7002

Owners: Superior Companies, 2402 S. 19th Ave., Phoenix, Arizona 85009. Phone: 253-2116

Commodity: Gypsum for Arizona Portland Cement plant at Rillito

Production:

800 tons/day

Operations: The gypsum occurs as essentially flat-lying beds or lenses in a sequence of lakebeds consisting of gravels, sands, silts, and clays. The mining methods consist of strip mining and shallow open-pit mining. Holes are drilled for blasting; after blasting the rubble is loaded on trucks with a front-end loader and hauled to the primary crusher which reduces the material to 4-6 inches in size. This material is screened and removes everything from 5/8 inches or smaller as rejects. The coarser material is hauled to Rillito (Portland Cement plant) for cement.

Another operation is a redimix plant in Winkelman. The sand and gravel is obtained from the river bed, crushed, screened to size and is used as a sand-gravel cement mixture.

BUSINESS

Phoenix, Sunday, Oct. 7, 1962 The Arizona Republic B-17

ARTMENT OF MINERAL RESOUR STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine

' Arizona Gypsum

(Near Feldman)

9-24-62

District

San Pedro Dist., Pinal Co.

Engineer

Lewis A. Smith

Subject:

Mill Visit.

It was learned that the mine and mill operation had returned to near normal after having been slowed by a strike at the Rillito cement plant. Considerable "Desert Diamond Fertilizer" ground gypsum is being sold for agricultural use, in addition to that sent to Rillito for cement manufacture.

10 men are employed at present, including truckers.

Location: Sec's 25-26, 34-35, T 6 S, R 16 E.

per telephone conversation with William Kessler, - LAS - WR - 5-3-63

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Arizona Gypsum Co.

Date May 18, 1961

District San Pedro District, Gila Co.(near

Engineer Lewis A. Smith

Feldman)

Subject: Mine Visit 5-18-61

Little change in operations is reported since the last visit, since the Rillito Cement Plant has been operating steadily. However, the production of 100 mesh gypsum for agricultural purposes has been good, even though the tonnage sold is not relatively large. This gypsum is sacked in 100 pound paper bags.

This property active 10-1961

This property active 2-1962 - William Kessler, Mgr., 2255 S. 19th Ave., Phoenix 9. 10 men working.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine | Arizona Gypsum Mine

Date

May 19, 1960

District

San Pedro Dist., Pinal Co.

Engineer

Lewis A. Smith

Subject:

Location: Il miles south of Winkelman and $l_2^{\frac{1}{2}}$ mile east of the Winkelman-Mammoth highway.

J. M. Champie, Supt., Winkelman, Arizona, lives at the mine.

The pit is about 600 x 200 feet and averages 15 feet in depth. The ore bed is about 90 feet deep, but contains thin seams of clay at intervals of 5 or more feet. The average gypsum shipped to Rillito cement plant is above 90% CaSO₄. The gypsum for agricultural uses is ground to 85% through 100 mesh. The current rate of cement gypsum is about 10 cars per week. The material shipped to Rillito ranges from 1/2-6 inches, the average being about 3 inches. The ore is loaded by means of a 3/4 yard Marion shovel and is hauled to the screening plant by 2 Ford trucks (about 10-12 tons). A larger 18-19 ton Euclid truck hauls to the railroad. The agricultural gypsum is sold in 100 pound paper bags, but this phase is relatively minor. The drilling is done by means of wagon drills and a 600 compressor. The area has tremendous reserves of good gypsum. Some gypsite is also mined west of the present pit. This lies in a layer, 3 inches-1 foot thick, overlying the regular gypsum.

ARIZONA GYPSUM CO., Winkleman, Ariz. PINAL CO. Dec. 20 - 56
(Active)

Box 6192, Phoenix, Ariz.

Pres. J. F. Fisher, Fisher Const. Co., Phoenix Sec. Wm Kessler, " " "

Agent: Jim Champie, Sr., 106 W. Sunland, Phoenix

2500 tons per mo.

L.A.S.

Plant on Active Mine List 9-1958

On Active Mine List 2-1959 - A. A. Barr, Mgr., Box 3732, Phoenix

On Active Mine List 10-1959 - Wm. Kessler, Mgr., 2255 S. 19th Ave., Phoenix

On Active Mine List 2-1960 - Wm. Kessler, Mgr., 2255 S.19th Ave., Phoenix

ARIZONA GYPSUM CO.

Gypsum

Pinal

11-3 S 35 T 6 S R 16 E

S. T. Benson, Mgr., Phoenix

Box 3732

DEPARTMENT OF MINERAL RESOURCES State of Arizona

MINE OWNER'S REPORT

	Date 17. Charles
1.	Mine: Arizang Gypsum Co.
	Location: Sec. 3.5 Twp. 6.5 Range 16 E Nearest Town Feldman
	Distance Z Direction N/ Road Condition 600
3.	Mining District & County: Mammoth Pinal
	Former Name of Mine: nane
	Owner S. T. Benson Mgr
	Address: Phaenix Ariz
6.	Operator:
	Address:
7	Principal Minerals: (F. y. p. 5 4 17)
	Number of Claims: 2.7 Lode Placer
0.	Patented Unpatented
0	
9.	Type of Surrounding Terrain Law hills
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10.	Geology & Mineralization:
	<u> </u>
11.	Dimension & Value or Ore Body:
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P	ina/ 11-3 C-C 46

Ore 0;	Doscol	on sorface on
m 65 + 0	+ clair	ns. No overburden,
		3" top soil in places.
Ore Probable:		
13. Mine Workings-	-Amount and Condi	lition:
No. Shafts	Feet	Condition Open cat,
1		# - T
14. Water Supply:		
15. Brief History:		
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	'al - 157	und to 200 Mesh
1		0/15/5
7		
16. Signature:		
17. If Property for Sc	ıle, List Approximate	e Price and Terms:
Pictures	1n /i;	·/e .

OFFICERS

J. C. CALLAGHAN, PRESIDENT F. H. KEDDINGTON, VICE-PRES. T. M. DRENNAN, SEC. AND TREAS.

ARIZONA GYPSUM COMPANY

28 SOUTH CENTRAL AVENUE PHOENIX, ARIZONA

PINAL COUNTY, ARIZONA

Mr. W. E. Defty, 618 N. erd. Ave.,

PROPERTY AT FELDMAN

Ang. 23, 1917.

DIRECTORS
A. L. MOORE
H. M. FENNIMORE
J. C. CALLAGHAN
H. B. WILLSON
A. R. TAVERNER
F. H. KEDDINGTON
W. L. BARNUM
T. M. DRENNAN
C. W. HARTMAN

Dear Sir:

Cityo

It will be of interest to every citizen of Phoenix and the Salt River Valley to know that--

The ARIZONA GYPSUM COMPANY, composed of substantial business men of Phoenix, has just been organized for the purpose of placing on the local market and elsewhere, Gypsum and Gypsum products as follows:--

- 1. FIRE PROOF BUILDING MATERIAL, made out of Gypsum, that will be cheaper and better than any building material on the market.
- 2. CRUDE GROUND GYPSUM for use as a FERTILIZER. Gypsum ''kills'' alkali and corrects the condition of the clay, adobe and ''slick'' soils, thus making it possible to extend and improve the agricultural conditions of the Valley.
- 3. ALL KINDS OF GYPSUM PLASTER that can be sold for much less than the present price of plaster.

Our market will not only be LOCAL but will extend all over Arizona and Southern California.

This being a HOME Company we want HOME people to share with us the fruits of our enterprise.

Read the enclosed Prospectus carefully, investigate our proposition thoroughly, and become a real live BOOSTER for a HOME enterprise that is sure to be a great success.

Are you interested? Call or write

ARIZONA GYPSUM COMPANY,

J. M. Dreman Secretary.

Telephone 1324.

DEPARTMENT OF MINERAL RESOURCES State of Arizona

MINE OWNER'S REPORT

Date A49. 2 1946 1. Mine: A-13019 6 4 p 501 60., allindad all 2. Location: Sec. 3.5 Twp. 6.5 Range 16 E Nearest Town Feldman Distance Z Direction N/ Road Condition 3. Mining District & County: Mammoth Pinal 4. Former Name of Mine: 700 5. Owner S. T. Benson, Mgr. Address: Phaenix, Ariz 6. Operator: Address: 7. Principal Minerals: (Typ 3 UT) 8. Number of Claims: 27 Lode Placer Patented Unpatented 9. Type of Surrounding Terrain: 1/5 10. Geology & Mineralization: 11. Dimension & Value or Ore Body: Pictures of Mine & Plant in file Pina/ 11-3

OFFICERS

J. G. CALLAGHAN, PRESIDENT
F. H. KEDDINGTON, VIGE-PRES.
T. M. DRENNAN, SEC. AND TREAS.

ARIZONA GYPSUM COMPANY

28 SOUTH CENTRAL AVENUE PHOENIX, ARIZONA

PROPERTY AT FELDMAN
PINAL GOUNTY, ARIZONA

Mr. W. E. Defty, 618 N. erd. Ave. Ang. 21, 1917.

DIRECTORS
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