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Arizona Department of Mines and Mineral Resources Mining Collection

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07/25/86

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: ANDRADA MARBLE QUARRY

ALTERNATE NAMES:

HELVETIA LIMESTONE PLANT

PIMA COUNTY MILS NUMBER: 156

LOCATION: TOWNSHIP 17 S RANGE 16 E SECTION 21 QUARTER N2
LATITUDE: N 31DEG 56MIN 46SEC LONGITUDE: W 110DEG 42MIN 48SEC
TOPO MAP NAME: EMPIRE MOUNTAINS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

STONE MARBLE CB

BIBLIOGRAPHY:

S.B. KEITH, AZBM BULL. 189, P. 123, 1974
ADMMR ANDRADA MARBLE QUARRY FILE

GEOLOGICAL SURVEY

110°45' 524000mE .5 26 27 42'30" 28

32°00' 3540000mN 31 32

T 16 S T 17 S 339 338 337 336 57'30" 335

↑ TO VALE INTERCHANGES ON I-10 ≈ 2.5 miles

T 17 S R 16 E

ANDRADA ROAD

Water Tank

WT

ROAD

CALLE

BACARDI

RINCONADO

WENTWORTH ROAD

WETSTONES ROAD

BROADVIEW DRIVE

SAHUARITA ROAD

Drill Hole

Drill Hole

NEW PLANT CONSTRUCTION

ANDRADA QUARRY ACTIVE 12-9-91

SEC 21

Water Tank

x 3

T 16 S

T 17 S

339

338

337

336

57'30"

335

334

31

32

4WD

BM 3303

6

4

9

18

16

3600

3446

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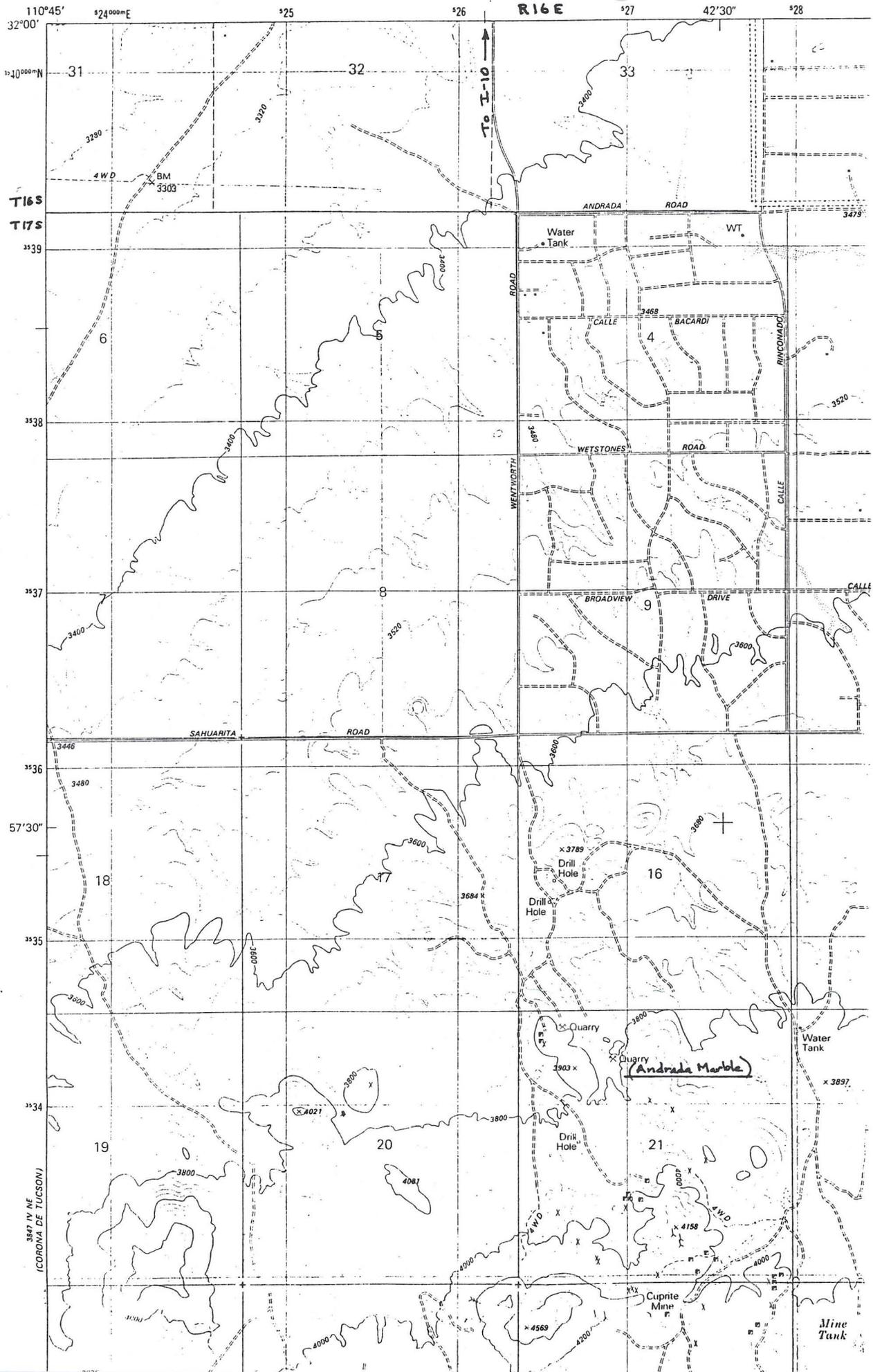
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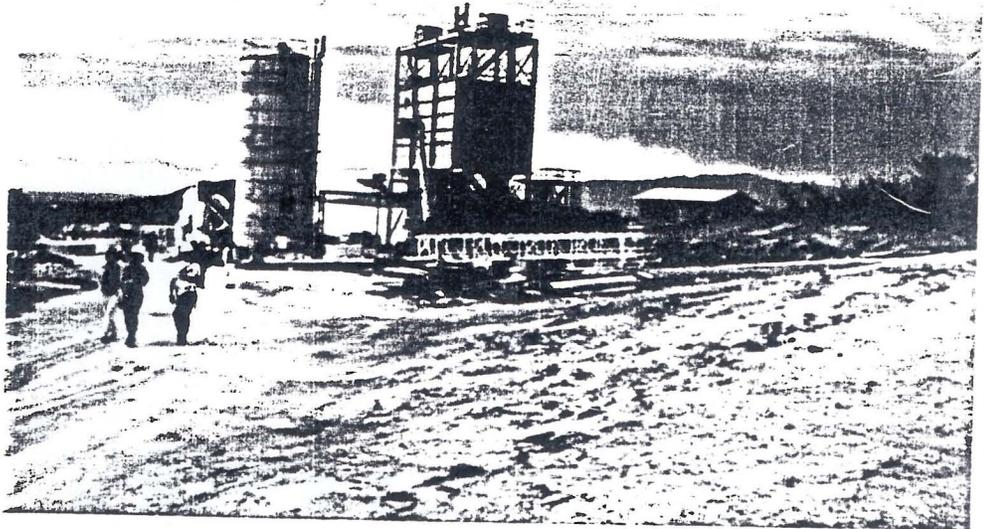
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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

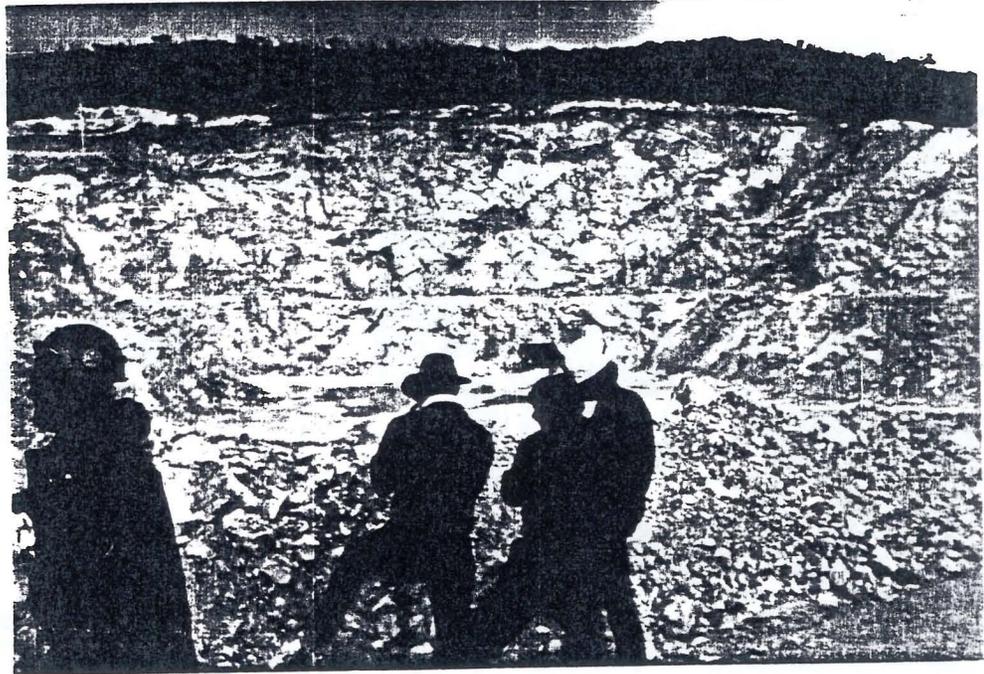
Mount Fagan 7 1/2' Quad.



4/5/92. Ground marble plant
under construction



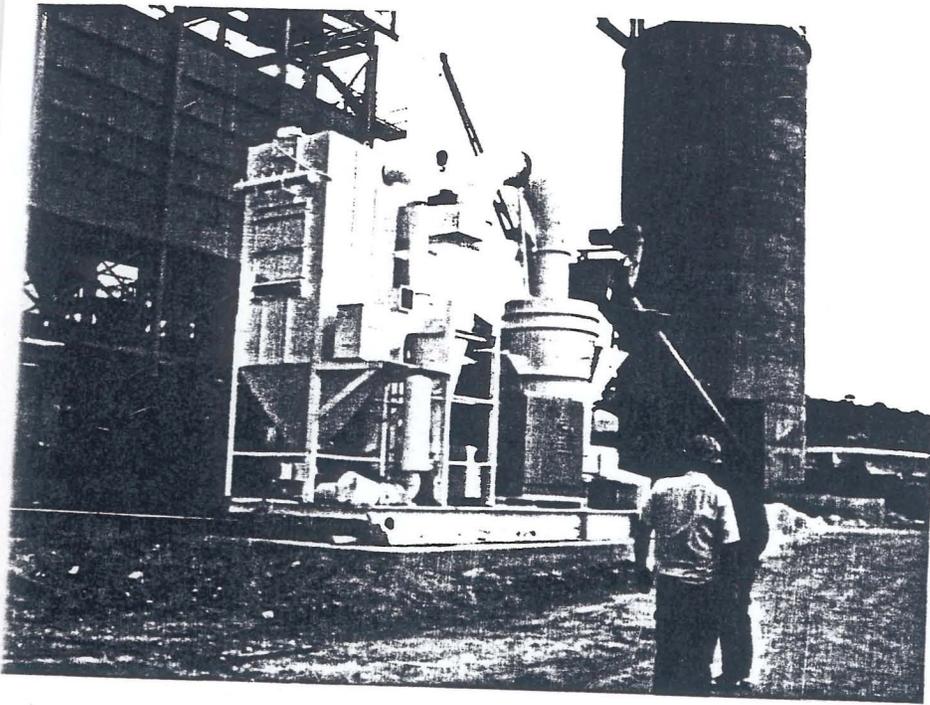
4/5/92. Quarry looking southeast.



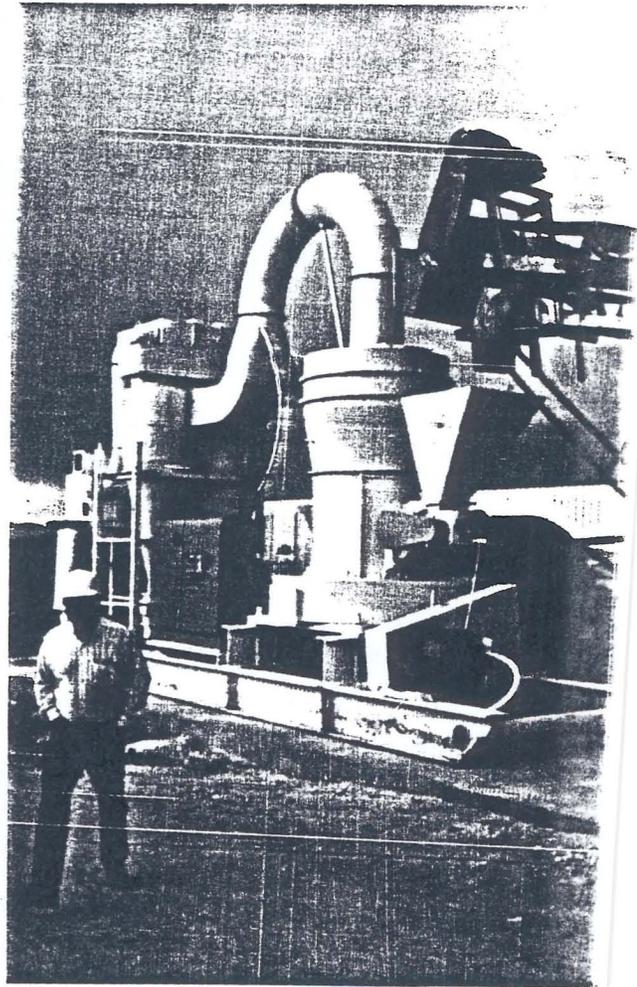
4/5/92. Portable crushing and
screening plant.



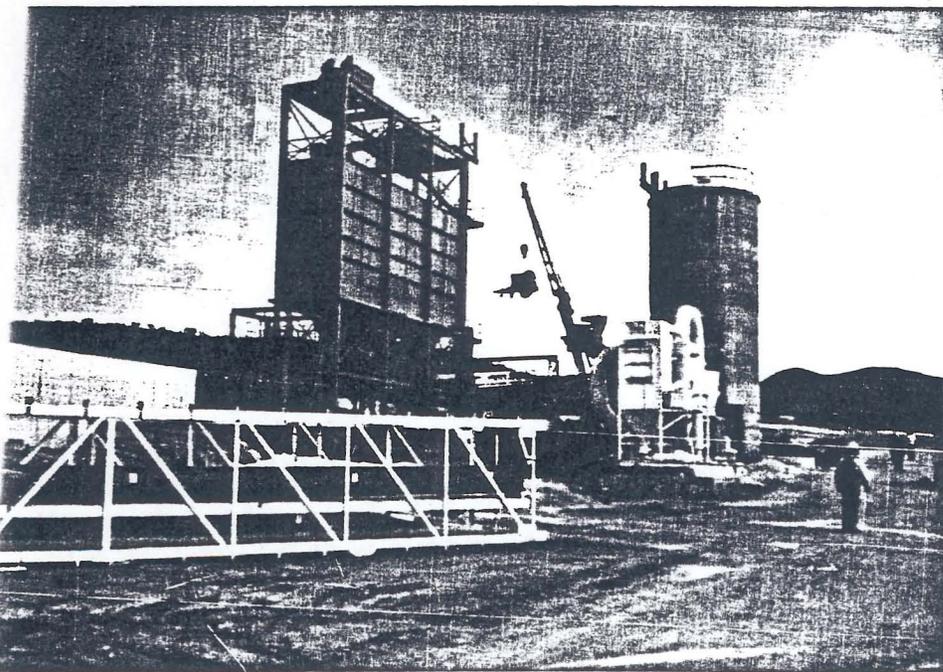
*Originals in photo file.



4/5/92. Skip mounted Raymond roller mill, classifier and dust collector.



4/592. Skip mounted Raymond roller mill, classifier and dust collector



4/5/92. Ground marble plant under construction

* Originals in photo file.

ANDRADA MARBLE QUARRY & PLANT

PIMA COUNTY

MG WR 11/16/84: Sent Andrada Marble Co (Pima County) a copy of a portion of the Mt. Fagan 7.5 Quad. The company wants to locate some survey corners and establish its property boundaries precisely. Some homeowners are building relatively close to the marble mine.

MG WR 1/24/86: Visited the office and crushing/bagging facility of Andrada Marble (Pima County). Business is good; producing about 150 tpd.

KAP WR 10/23/87: In the process of gathering data for the new Directory of Active Mines in Arizona talked with Dave Hartley, President and General Manager, Andrada Marble Company Inc, 4901 E. Drexel Road, Tucson, Arizona 85706, phone 574-1414 who reported business about as usual. Their Andrada Marble Quarry (file) Pima County, is located in the E1/2, NW1/4, Sec 21 T17S R16E.

ABSTRACTED FROM ADMMR 1986
DIRECTORY OF ACTIVE MINES
April 24, 1987

ANDRADA MARBLE COMPANY, INC.

Andrada Marble Quarry

4901 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 9 - Mine site located 17 miles southeast of Tucson - Open pit marble mine - Used for calcium feed additive, plastering material, decorative stone, roofing material - 3,000 TPM.

President David Hartley
Vice President Barbara Hartley
Secretary Willis Dees

ANDRADA MARBLE QUARRY

Active Mine List Oct. 1966 - 4 men
 Active Mine List April 1967 - 4 men
 " " " Oct. 1967 - 5 men
 " " " April 1968 - 5 men
 " " " Oct. 1968 - 5 men
 " " " April 1969 - 5 men
 " " " October 1969 - 5 men
 " " " May 1970 - 5 men
 " " " October 1970 - 5 men

Andrada Marble Quarry continued during the year. GWI Annual Report July, 1968

 David C. Hartley, Mgr., 4541 E. 13th St., Tucson.

 Dir. of Mining - August 1971 - 8 men.

 Active Mine List - Oct, 1972 - 10 Empl.

 In the Santa Rita Mountains within Pima County, the Andrada Marble Co. continues producing from their mine near Mt. Flagin and processing the material at their plant in SE Tucson.
 GWI AR 73-74

 MG/WR 11/19/79 - Mr. Richard Markeson of the Horizon Corp., P.O. Box 27324, Tucson, Arizona 85726 reports that Horizon still owns the Andrada Marble Quarry, Pima County.

 MG WR 1/23/81: David Hartley, owner of the Andrada Marble Co., reports he has a competitive interest, with Western Nuclear, in the King of Arizona Mine (Yuma County).

Time Copy to: Andvato Pit marble Quarry Pima Mills 156 file

Melvin & Kim Kolba
PO Box 786
Vail, AZ 85641-0786
Phone 520-762-1963
Fax 520-762-1962
kkolba@att.net

12/8/04

Michael Rice
Minerals Section, Natural Resources Division
Arizona State Land Department
1616 W. Adams Street
Phoenix, AZ 85007

Re: Mineral Lease Application 11-003227: Mr. Charles P. Seel Section 29,T17S, R17E, Pima County, AZ

We have recently become aware of the above referenced Lease Application and am writing to submit my comments. I strongly object to the creation and establishment of large-scale commercial mining operations in the area of South Sonoita Highway (also known as Arizona State Scenic Route 83) South of I-10 in Pima County, Arizona. This includes, but is not be limited to, the calcium carbonate mining operation proposed in Mineral Lease Application 11-003227: Mr. Charles P. Seel Section 29,T17S, R17E, Pima County, AZ as well as any and all initiatives of the California Portland Cement Company or others to establish a mining operation in the Davidson Canyon Natural Preserve or to resume operations at the abandoned quarry/processing facility at the intersection of Sahuarita and Wentworth roads.

We believe that mining operations of this type and scale are exceptionally contrary to the nature of the area as it now exists and would, even under the most theoretically favorable conditions, place an unreasonable burden on both our human and environmental communities. Therefore, we strongly urge all County and State officials (both appointed and elected) to vote or regulate against the establishment of these and any other like projects that would have so serious and grievous an impact on our community and on our lives.

Please consider the above comments. We strongly urge you to deny this lease application for all of the reasons stated above. It is not in the best interest of the state, the local community, or the school children of Arizona. Please keep me informed of all future actions regarding this lease application. Furthermore, we request an open hearing on this issue.

Melvin G. Kolba
Melvin G. Kolba
Kim C. Kolba
Kim C. Kolba

C: Chuck Huckleberry, Pima County Administrator
Ray Carroll, Pima County Board of Supervisors
Mark Winkleman, State Land Commissioner
Jan Leshner, Director, Governor's Office of Southern Arizona
Greg Hagen, Pima County Natural Resources, Parks & Recreation
Rafael Payan, Natural Resources, Parks and Recreation Director
Julia Fonseca, Program Manager, Transportation and Flood Control District

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Andrada Marble Quarry & Plant

Date Oct. 30, 1963

District Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from David C. Hartley, and personal visit.

References Reports of Dec. 27, 1962 and April 27, 1962

Location Sec. 21 - T 17 S - R 16 E., about 26 miles SE of Tucson. There is now a new road being paved to within 1 1/4 miles of the property.

Take Hwy. # 80 east from Tucson for a distance of about 20 miles. Turn right at Vail overpass and drive for 5 miles on county road, now being paved, past the Andrada Ranch Estates. At the end of 5 miles, continue straight on private road for a distance of 1 1/4 miles to the Andrada marble plant, & an additional 1/4 mile to quarry.

Owners Tucson Title & Trust Co., trustees for the owners.

Lessees & Operators David C. Hartley, 4541 E. 13th St., Tucson (note change of addr.)

Principal Product White marble.

Present Activity Quarrying marble and crushing and screening same at the plant. 4 men working. Production from 500 to 600 tons per month.

Crushing and Screening Plant Plant equipment is the same as reported on Dec. 27, 1962 and April 27, 1962.

Marble Varieties 7 different sizes of white marble, as shown in report of Dec. 27, 1962.

Quarry The quarry is located 1/4 mile east of the plant. The present pit, which has been expanded to the north and west, now shows some brown and gray discolorations on the north and west banks.

A new cut will now be started about 100 ft. south of the south edge of the present pit and 3 ft. above the level of the creek bed, which will be about 35 ft. below the bottom of the present pit. Very little, if any, overburden will have to be moved. Preliminary drilling of this area has shown very clean white marble.

For quarrying operations, see previous reports.

Markets Markets are the same as shown in my report of Dec. 27, 1962; and, in addition:
(a) Marvel Roofing Products, Albuquerque, N. Mex., who purchase marble f. o. b. plant.

(b) Arizona Milling Co., 177 E. Toole Ave., Tucson, Ariz. and Erly-Fat Livestock Feed Co. of the same address --- about 25 tons per week delivered in Tucson for use as cattle feed mix. This is the very fine -1/32 " material, 4 # of this fine marble being added to each 100# bag of cattle feed.

Prices The marble products are sold wholesale at the following prices:

(a) Orders of 25 tons or more

f. o. b. mine ---- \$ 9.00 per ton in bulk
\$12.00 per ton sacked in 100 # sacks
delivered in Tucson ---- \$ 2.00 per ton additional.

(b) Orders of less than 25 tons

f. o. b. mine ---- \$ 12.00 to \$ 13.00 per ton in bulk
\$ 15.00 to \$ 16.00 per ton sacked
delivered in Tucson ---- \$ 2.00 per ton additional.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Andrada Marble Quarry & Plant
(formerly Helvetia Limestone)*

Date Dec. 27, 1962

District Pima County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from David C. Hartley & personal visit.

Location Sec. 21 - T 17 S - R 16 E --- about 29 miles SE of Tucson. Take Hwy # 80 east from Tucson for a distance of about 23 miles. Turn right on highway # 83, and, immediately after making the turn, turn right onto a sideroad, passing the first gate and entering through the second gate. Drive on unimproved road for a distance of about 1.0 mile south, then west for a distance of 1 mile, then south for a distance of 2.6 miles, and then SW for a distance of 1.5 miles to the crushing and screening plant. The quarry is about 1/4 mile past the plant.

Owners See report of Dec. 1, 1960

Lessee and Operator David C. Hartley, Rte. # 7 - Box 836, Tucson, Ariz.
Tel. 622- 5079

Principal Product White marble

Present Activity Quarrying marble and crushing and screening same in the plant.
3 men working. Production about 500 tons per month.

Crushing & Screening Plant Same as shown in my report of April 27, 1962, with a sacking plant added for the sacking of the limestone.

Marble Varieties White marble of the following sizes are produced: (7 diff. sizes)
(a) + 1 1/2 " (b) + 1 " & - 1 1/2 " (c) + 5/8 " & - 1 "
(d) + 3/8 " & - 5/8 " (e) + 1/16 " & - 3/8 " (f) + 1/32 " & - 1/16 " ~~W~~ & (g) - 1/32 "
Also some building stone from 12 inches to 16 inches is produced.

Quarry The quarry is located about 0.25 miles east of the plant. It is now about 150 ft. x 200 ft. with a maximum depth of 30 ft. The blast holes are drilled with an Ingersoll Rand Wagon drill. 4 inch holes are drilled to a depth of 20 to 30 ft. A 315 c. f. m. C. P. compressor is in use. Pelled ammonium nitrate mixed with fuel oil is used as explosive agent. 1 gal. diesel fuel is added to each 80# bag of pelled ammonium nitrate, and 10 lbs. of prells are used per hole.

A 10 L Tracto Loader, made by Tractomotive Corp. is used for loading the marble into a truck, which hauls it to the plant, 1/4 mile away.

Markets and Prices Markets for the marble products are :

- (a) In Tucson
Wilmot Sand and Gravel, Inc.
Stewart Building and Roofing Supply
Ed Holderness Supplies, Inc.
El Pueblo Roofing and Supply Co.
Globe Roofing Co.
Murdock Roofing Co.
Cardinal Insulation Roofing and Painting Co. et. al.
- (b) In Phoenix
City Stone Co.
Howard Roofing Contractors
Roofing Wholesale Co., Inc. et. al.

Prices are the same as shown in my report of April 27, 1962, with some discounts given on large orders.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Helvetia Lime Stone

Date DECEMBER 1, 1960

District Pima County

Engineer Axel Johnson

Subject: Field Engineers Report. Information from Mrs. David C. Hartley and personal visit.

Location: Sec. 21 - T. 17 S. - R. 16 E. - About 28.5 miles SE of Tucson. Take Hwy. #80 east from Tucson for a distance of 22.5 miles, and turn right (south) 1.3 miles east of the Vail road. Drive south for a distance of 4.4 miles to Fork in road. Take right hand fork going SW and drive 1.5 miles additional to the crushing and screening plant. Quarry is about 1/4 mile past the plant.

Owners: Tucson Title and Trust Co., trustees for owners. Property known as the Andrade Ranch homestead, the mineral rights being included with the homestead.

Lessees & Operators: David C. Hartley, 4541 E. 13th St., Tucson, Ariz.
Lease provides for a royalty of \$1.00 per ton.

Principal Minerals: Limestone and marble of white color.

Present Mining Activity: Quarrying limestone and marble and crushing and screening same in the plant. 2 men working. Production about 100 tons per month.

Geology and Mineralization: Quarry is in the Escabrosa limestone formation, most of the limestone having been crystallized into marble.

Crushing and Screening Plant: Plant equipment consists of:

- (1) A steel crude ore bin, 8' x 8' on top, narrowing to 1 1/2' width at bottom and 10' high.
- (2) 18" jaw crusher
- (3) Hammer mill
- (4) Bucket elevator
- (5) A set of vibrating screens
- (6) 4 bins, each about 2' x 10' x 6' for different sizes of finished product, with sacklers below each bin.
- (7) 8 Cyl. engine for motive power.

White marble products of the following sizes are produced 2" - 7/8" - 5/8" - 1/2" - 3/8" - 1/4" - 1/8" - 1/16" and dust.

Quarry: The quarry is located 0.2 miles east of the plant. The quarry is about 60 ft. long x 60 ft. wide, with a maximum depth of 24 ft. on the south side and 15 ft. on the north side. The top portion down to a depth of about 15 ft. could be classified as limestone, and below that depth, marble appears to predominate. The south side of the quarry below a depth of 15 ft. is now being worked.

A double drum scraper is used, which scrapes the marble on top of a grizzly, through which it drops directly into the dump truck. A large old style 4 cyl. engine, to which two drums are connected in tandem by a gear mechanism, is used for pulling the scraper, the engine and drums being mounted on a truck. The engine and drums were manufactured as one unit by the Novo Engine Co., Lansing, Mich. and called "Novo Outfit." No date could be found on the name plate.

Markets and Prices: Markets for the marble products are:

Wilmot Sand and Gravel Inc., 2300 N. Wilmot Road, Tucson

HELVETIA LIME STONE

Markets and Prices: (continued)

Jacketts Stone, 7900 E. Speedway, Tucson
Roofing Wholesale Co., Inc., 3431 N. Grand Ave., Phoenix
and 6 roofing companies in Tucson.

The marble products are sold only wholesale at the following prices:

f.o.b. mine - \$ 11.00 per ton in bulk
15.00 per ton sacked

Delivered in Tucson - \$ 13.00 per ton in bulk
17.00 per ton sacked

Date Printed: 11/19/96

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION SUMMARY

Information from: **Larry Mattison**

Company: Georgia Marble Company of Arizona

Address: 16101 S. Wentworth Road

City, State ZIP: Vail, AZ 85641

Phone: 520-762-9119

MINE: Andrada Marble Quarry

ADMMR Mine File: Andrada Marble Quarry file

County: Pima

AzMILS Number: 156

SUMMARY

Called Larry Mattison to learn the validity of a rumor that Georgia Marble Company had been sold. He confirmed that it had and sent a copy of the corporate release with the details that are currently public.

The buyer is Inmetal SA, a French company with interests in building materials, industrial minerals, and metal processing. Inmetal SA also owns Dry Branch Kaolin Company that mines and processes kaolin in Georgia.

Georgia Marble Holdings Corporation, the parent of Georgia Marble Company was a closely held private corporation owned by company management and part of the Fiat family that owns the company of that name in Italy.

Larry feels the only change may be easier access to corporate development money.

Larry also mentioned the status of the lease application before the Arizona Land Commissioner for development of additional production areas in SW, Sec 19, T.17S., R17E. which they will call the Davidson Quarry. It is the old Burris Marble property, Pima AZMILS 349. The decision is still before the arbitrator. Eight days of hearings were held before the arbitrator. Larry feels that the problem is simply "not in my back yard" and is fueled by the absentee owner of the Andrada Ranch that has the grazing lease from the State Land Department.

A copy of the news release regarding the sale of the company is included for the Andrada Marble Quarry mine file.

Ken A. Phillips

August 9, 1995



ANDRAC MARBLE QUARRY (SIC)

Georgia marble company of arizona

16121 south wentworth road, vail, arizona 85641 • (602) 762-9119
(800) 952-2759 • fax: (602) 762-5592

Date: 9/26/94

To: Ken Phillips
Az Dept of Mines + Minerals
(Company/Dept)
602. 255-3777
(Fax No.)

From: Harry J. Mattison

Total Pages: 9 (Including cover sheet)

Time: 9:20 AM

Re: Ken
For Your Info
will send VIA Mail Also
Thanks
Larry



Georgia marble company

THE FINEST
NATURAL MARBLE

223 roberts boulevard, building 100 • kennesaw, georgia 30144-3619
Tel: (404) 421-0507 • (404) 421-0527

A. L. GAY, JR.
Chairman, President, CEO

July 19, 1995

ANNOUNCEMENT

An announcement was made July 18 by Imetal SA, a French public held company, that its Dry Branch Kaolin Co. subsidiary has reached a definitive Stock Purchase Agreement to acquire 100% of the stock of Georgia Marble Holdings Corporation, which is the parent of The Georgia Marble Company. The sale is set to close in mid-September subject to Federal regulatory approval, which is expected.

Dry Branch Kaolin Co. operates kaolin mines and a processing plant in middle Georgia. While expected to complement each other, the two companies, Georgia Marble and Dry Branch Kaolin, will operate relatively independently of each other with only minor consolidation of some functions once the acquisition is completed.

Imetal S.A. owns and operates three basic business interests including Building Materials, Industrial Minerals, and Metals Processing.

I feel that this move will enable Georgia Marble to reach its fullest growth potential over the long term with this strategic buyer.

Sincerely,

A. L. Gay, Jr.
President

ALG:lnd

VIS6.21

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Charles Acker, Geologist
Company: Georgia Marble Company
Address: P. O. Box 120
Marble Hill, Georgia 30148
2. Phone:
3. Mine: Andrada Marble Quarry
4. ADMMR Mine File: Andrada Marble Quarry
5. County: Pima MILS Number:
6. Summary of information received, comments, etc.:

Mr. Acker explained they plan a geologic survey of the claims at the Andrada Quarry for their 1992 and 1993 assessment work.

He promised us a copy of the data and report.

Date: 3-9-92 Engineer: Ken A. Phillips

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

Information from: Tim Whitney

Company: Murco Wall Products

Address: P.O. Box
City, State ZIP: Buckeye, Arizona 85326
Phone: 602-386-5781

MINE: Andrada Marble Quarry

ADMMR Mine File: Andrada Marble Quarry File
County: Pima
AzMILS Number: 156

SUMMARY

Tim Whitney supplied some brief updates and insights about Georgia Marble's operation at the Andrada Marble Quarry.

They have a 50" Raymond roller mill installed and are making filler grade ground limestone for the joint cement industry. They are planning to install a 66" Raymond mill and the equipment necessary to produce fine paint grade fillers.

They offered Murco Wall Products free use of their old Tucson industrial plant site for a construction of a new joint cement plant.

An important factor in Georgia Marble's acquisition of the Andrada Marble company's mine and operation was the long standing friendship between Bill Hartley of Andrada and Bill Addison of Georgia Marble.

Ken A. Phillips, Chief Engineer Date: December, 1992

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: mine visit and employee, Mike Hammil
Address: Andrada Marble Co., 4901 E. Drexel Rd., Tucson, AZ 85706
2. Mine: ANDRADA MARBLE 3. No. of Claims - Patented _____
(Pima Co. - Mt. Fagan 7½' Quad) Unpatented _____
4. Location: Wentworth Rd. south from I-10. From Wentworth-Sahuarita intersection,
continue south on dirt road for about 1.6 miles
5. Sec NW¼, 21 Tp 17S Range 16E 6. Mining District _____
7. Owner: Andrada Marble Co.
8. Address: Same as above
9. Operating Co.: Same as above
10. Address: _____
11. President: David Hartley 12. Gen. Mgr.: _____
13. Principal Metals: Marble 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: Mine property consists of 80 (homestead) acres now owned by the
Andrada Marble Co.
The nearby circular pit is about 800 X 700 feet and almost 200 feet deep.
All marble is hauled to the plant on Drexel Rd. where it is crushed and bagged.
A landscaping company removes large boulders.
Mr. Hartley is concerned about new homes being built on the east side of
the mine.

Date: November 7, 1984

Michael W. Greeley
(Signature) (Field Engineer)

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1992

Pima County

GEORGIA MARBLE COMPANY INC.

Andrada Marble Quarry T17S R16E Sec. 21

4901 E. Drexel Road, Tucson, AZ 85706 - Phone 574-1414 - Employees: 11 - Mine site located 17 miles southeast of Tucson - Open pit marble mine - Used for calcium feed additive, plastering material, decorative stone, roofing material - 3,000 TPM - New crushing and grinding plant under construction.

Division Manager Larry Mattison

General Manager Russell Strobridge

Office Manager Lillian Cruz

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1991

ANDRADA MARBLE COMPANY INC.

Andrada Marble Quarry T17S R16E Sec. 21

4901 E. Drexel Road, Tucson, AZ 85706 - Phone 574-1414 - Employees:
11 - Mine site located 17 miles southeast of Tucson - Open pit marble
mine - Used for calcium feed additive, plastering material, decorative
stone, roofing material - 3,000 TPM.

President and General Manager David Hartley

Vice President Barbara
Hartley

Office Manager Allison
Powell

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1990

ANDRADA MARBLE COMPANY INC.

Andrada Marble Quarry T17S R16E Sec. 21

4901 E. Drexel Road, Tucson, AZ 85706 - Phone 574-1414 - Employees:
11 - Mine site located 17 miles southeast of Tucson - Open pit marble
mine - Used for calcium feed additive, plastering material, decorative
stone, roofing material - 3,000 TPM.

President and General Manager David Hartley
Vice President Barbara Hartley
Office Manager Allison Powell

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1989

ANDRADA MARBLE COMPANY INC.

Andrada Marble Quarry

T17S R16E Sec. 21

4901 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 9 - Mine site located 17 miles southeast of Tucson - Open pit marble mine - Used for calcium feed additive, plastering material, decorative stone, roofing material - 3,000 TPM.

President and General Manager David Hartley
Vice President Barbara Hartley

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1988

ANDRADA MARBLE COMPANY INC.

Andrada Marble Quarry

T17S R16E Sec. 21

4901 E. Drexel Road, Tucson 85706 - Phone 574-1414 - Employees 9 - Mine site located 17 miles southeast of Tucson - Open pit marble mine - Used for calcium feed additive, plastering material, decorative stone, roofing material - 3,000 TPM.

President and General Manager David Hartley
Vice President Barbara Hartley

ANDRADA MARBLE QUARRY

Active 9-1960

Active 2-1961

Active 10-1961

Active 2-1962

Active 10-1962

Active 10-1963 - 4 men

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Andrada Marble Quarry and Plant Date Sept. 9, 1964
District Pima County Engineer Axel L. Johnson
Subject: Mine Visit. Information from David C. Hartley & personal visit.

References Report of June 17, 1964 and previous reports.

Principal Product White marble rock of various sizes.

Present Activity Quarrying marble and crushing & screening it at nearby plant.
4 men working. Production about 500 tons per month.

Crushing & screening plant Same as shown in June 17, 1964 report.

Marble Varieties 7 different sizes of white marble for different uses.

Quarry The quarry has been further extended and enlarged. The fine, discolored material found in the cracks and water courses in the rock, are now screened out by a shaker screen mounted on a truck, resulting in a whiter product.

Review of Operations at the Quarry

The quarry banks are now 38 ft. high. 3 inch holes are drilled by means of a wagon drill to depths of about 40 ft. The holes are loaded first with quarry powder for a distance of about 18 ft. at the bottom; then with ammonium nitrate for a distance of 18 ft. on top of the quarry powder; then, finally, with marble ~~dust~~ dust for the top 4 ft. Wet marble dust is used.

A P & H caterpillar gasoline shovel, with a 3/8 yd. dipper is used for loading the blasted marble in a truck. The shovel dumps the material on a shaker screen with 1/2 in. x 1 1/2 in. openings mounted on a truck, the undersize material being wasted and the oversize material going on a 15 ft. conveyor belt discharging in a 6 yd truck, which later trucks the material to the crushing & screening plant about 1/4 mile from the quarry. An engine mounted on the first truck with the shaker screen drives the shaker screen and the 15 ft. conveyor belt. A man, also stationed on top of the first truck, operates the engine, gauging its speed according to the feed, and also breaking up with a sledge hammer any limestone rocks, which are too large to pass over the conveyor belt.

Markets Same as June 17, 1964 report.

Prices Same as June 17, 1964 report.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Andrada Marble Quarry & Plant Date June 17, 1964
District Pima County Engineer Axel L. Johnson
Subject: Mine Visit. Information from David C. Hartley and personal visit.

References Report of Mar. 11, 1964 and previous.

Principal Product White marble rock of various sizes.

Present Activity Quarrying marble and crushing and screening same at the plant.
4 men working. Production about 500 tons per month.

Crushing and screening plant Equipment and operation is the same as reported previously, except that more of the very fine material ($\approx 1/32''$) is produced for cattle feed, and correspondingly less for other uses.

Marble Varieties 7 different sizes of white marble as shown in report of Dec. 27, 1962.

Quarry The quarry pit, mentioned in the March 11, 1964 report, has been extended and enlarged. Some of the fine, discolored material, which are found in the crevices and water courses in the limestone rock, are now screened out by means of a new screen installed at the plant.

Markets The markets are as follows:

- (a) $\ast 1/8$ & $-3/8$ for roofing --- about 200 to 225 tons per month.
- (b) Various sizes for landscaping and driveways --- about 100 tons per month.
- (c) Fines (about $-1/32''$) for swimming pool construction --- 30 to 40 tons/month
- (d) Fines (about $-1/32$) for use as cattle feed mix. This is sold to Arizona

Milling Co. and Erly-Fat Livestock Co. with offices in Tucson and Phoenix. About 200 to 225 tons per month of this material is now sold. This is added to cattle feed to provide a source of calcium for the formation of solid bones and teeth.

Prices Same as report of Oct. 30, 1963, except that fines sold as cattle feed is now sold in bulk f.o.b. mine at \$ 5.00 per ton.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Andrada Marble Quarry & Plant

Date Mar. 11, 1964

District Pima County

Engineer Axel L. Johnson

Subject: Mine Visit. Information from David C. Hartley and personal visit.

References Reports of Oct. 30, 1963 and previous.

Principal product White marble.

Present Activity Quarrying marble and crushing and screening same at the plant.
3 men working. Production 600 tons per month.

Crushing and screening plant Plant equipment and operation is the same as reported Oct. 30, 1963 and April 27, 1962.

Quarry A P. & H. caterpillar gasoline shovel, with a 3/8 yd. dipper was purchased recently, and is now in use at the quarry. This has resulted in the reduction of the work force from 4 men to 3.

As shown in the Oct. 30, 1963 report, a new pit was started about 100 ft. south of the south edge of the old pit, and 35 ft. below the bottom of the old pit. This pit is now about 60 ft. long, 30 ft. wide, and 6 to 12 ft. deep. When this is extended an additional 25 ft., it will cut through to the old pit at the lower elevation.

Production was 450 tons in December, 350 tons in January, and 500 in February. Production in the summer months, May to November is expected to be from 600 to 700 tons per month

Markets Same as the Oct. 30, 1963 report.

Prices Same as the Oct. 30, 1963 report.

VIS6.18

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Fieldvisit December 9, 1991 by Ken A. Phillips

Company:

Address:

2. Phone:

3. Mine:

4. ADMMR Mine File: Andrada Marble Quarry File

5. County: Pima MILS Number: 156

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

Georgia Marble Company has purchased and now operates the Andrada Marble Quarry. They have unofficially announced plans to build a processing plant and grinding mill at the quarry site. At the time of my visit a portable crushing and screening plant had been set up at the quarry possibly to replace the one in southeast Tucson and has been in use. A 30 - 40 foot high concrete "coarse ore storage" silo has been constructed and is designed to supply conveyors from its bottom. A construction crew was finishing concrete pads, but no foundations for mills have been poured or formed. Production of white marble has been from a pit approximately 400' X 400', 60' deep with 4 benches. White marble contains numerous dark areas and fractures.

Date: December 9, 1991

Engineer: Ken A. Phillips 

PLAN OF OPERATIONS

(IN PART, PDF ON
FILE SERVER 2005 MSN)

For:

ANDRADA QUARRY
W.R. Henderson Arizona Properties, LLC, Owner/Operator

Lands Involved:

Portions of GAMACO #1, GAMACO #2 and
WRH-PRO-ONE Placer Mining Claims
Located Within NW/4 Section 21, Township 17 South, Range 16 East
Gila and Salt River Prime Meridian
Pima County, Arizona
(~14.2 acres)

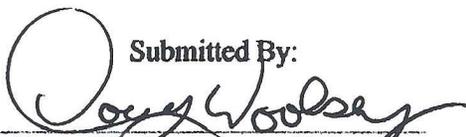
Prepared By:

David E. Wahl, Jr., Ph.D., R.G.
Consulting Geologist
1756 E. Enrose St.
Mesa, AZ 85203

Submitted To:

U.S. Bureau of Land Management
Tucson Field Office
12661 E. Broadway Blvd.
Tucson, AZ 85748-7208

Submitted By:


Doug Woolsey, General Manager
W.R. Henderson Arizona Properties, LLC
7866 Via Bonita Street
Scottsdale, AZ 85258
(480) 443-4192

3-24-05

Date