



## **CONTACT INFORMATION**

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03/21/89

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: ARIZONA RHYOLITE

ALTERNATE NAMES:

J AND A

PINAL COUNTY MILS NUMBER: 741

LOCATION: TOWNSHIP 1 S RANGE 10 E SECTION 21 QUARTER SE  
LATITUDE: N 33DEG 19MIN 35SEC LONGITUDE: W 111DEG 19MIN 29SEC  
TOPO MAP NAME: FLORENCE JUNCTION - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

PUMICE LT WT AGREGT

BIBLIOGRAPHY:

ADMMR ARIZONA RHYLOITE FILE  
BRYAN, DENNIS P. 1989, OCCR & USES NATURAL LT WT  
AGGREGATE IN W. US, AIME PREPRINT 89-193, P3

ARIZONA RHYOLITE

PINAL COUNTY  
T1S R10E Sec 21

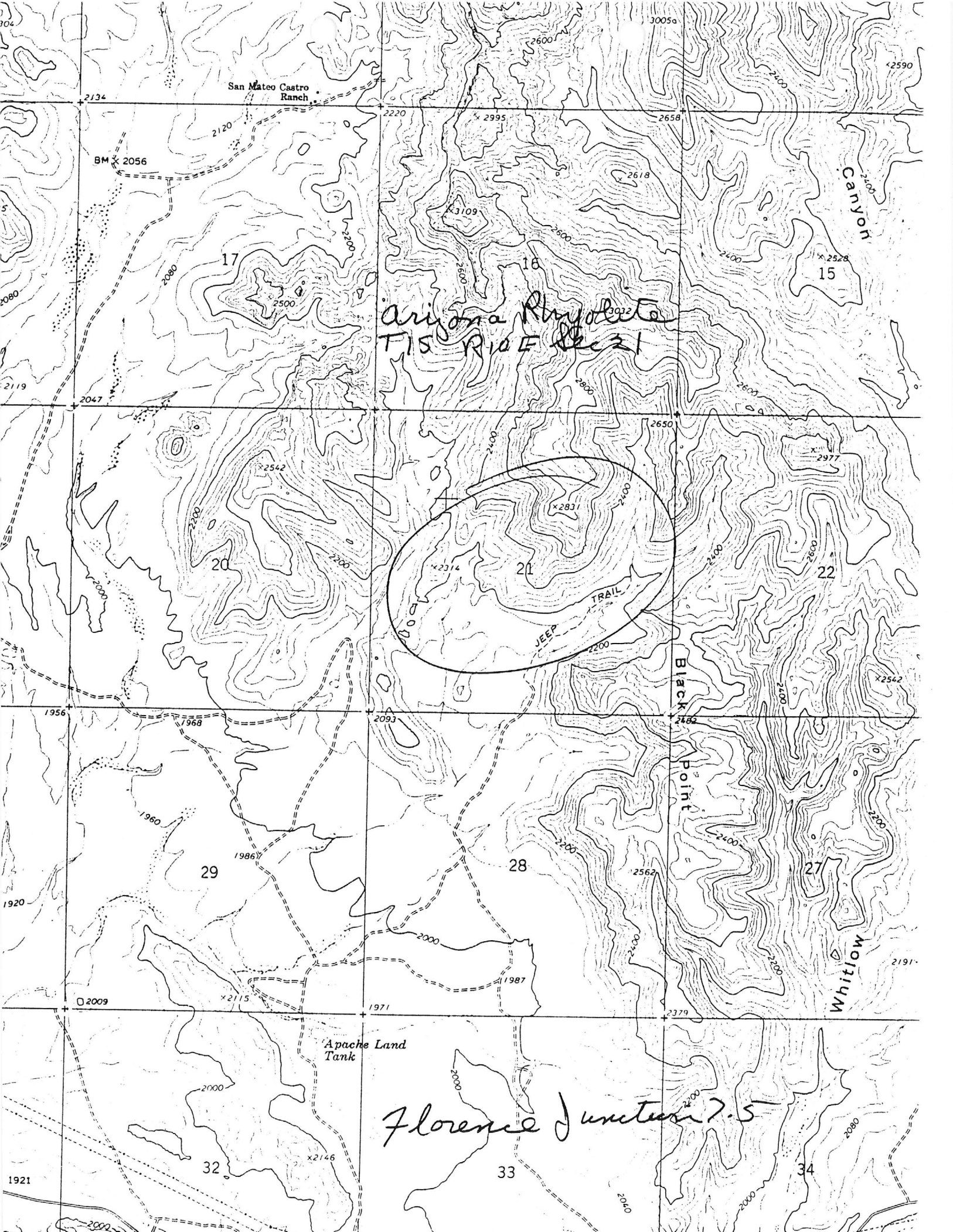
MILS # 741

Claims also extend into Sec. 9, 14, 22, 23

Current Status: Past Producer

AKA: J & A Co

Florence Junction 7.5



San Mateo Castro Ranch

Arizona Rhyolite  
TIS R10E Sec 21

Black Point

Florence Junction 7.5

Whitlow

Whitlow Canyon

Apache Land Tank

BM 2056

2134

2220

3005a

2590

17

18

15

20

21

22

29

28

27

32

33

34

1921

1920

1956

2047

2119

2104

2191

2542

2977

2528

2658

2995

3109

2618

2500

2542

2831

2314

2650

2093

2682

1968

1960

1986

2562

1971

2379

2115

1987

2000

2146

2000

2080

2020

2000

2000

## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Mine file: ARIZONA RHYOLITE
2. Mine name if different from above:
3. County: Pinal
4. Information from: Rick Erman

Company:

Address: 3435 E. Windrose Dr.

Phoenix, AZ 85032

Phone: ~~971-2388~~ or mobile ~~1-377-2865~~ Cell 602-769-6111 3-7-03

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

Mr. Erman reported he has taken over the pumaceous rhyolite quarry and is attempting to put it back in production. He has been in contact with concrete block producers who might use the material as a light weight aggregate. He is investigating the use of the fines for Type N pozzolan or mineral filler. A sample ground to 100% minus 325 mesh and a mean particle size of 7.8 microns is too gray for most filler uses in paint, cultured marble, joint cement, swimming pool plaster and other uses requiring white material.

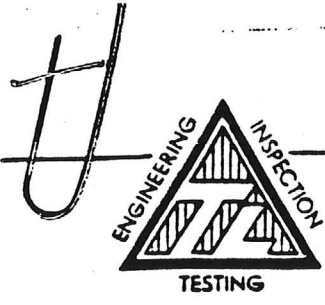
The Johnson Mining Co. (previously Johnson-Stewart-Johnson) used to mine the material for light weight aggregate, but the mine has been down for about 5 years. Some 60,000 to 90,000 tons of 1/8" minus material is stockpiled at the quarry as waste from that operation.

Mr. Erman is related to the Johnson's by marriage. The property is on BLM minerals and State surface.

Mr. Erman provided a copy of a laboratory analysis on the material and a particle size analysis of the fine ground material for inclusion in the file.

Date: August 10, 1989

Ken A. Phillips, Chief Engineer



# Twining Laboratories of Southern California, Inc.

3310 Airport Way  
Long Beach, CA 90806  
Mail: P.O. Box 47, 90801  
(213) 426-3355  
(714) 828-6432 FAX (213) 426-6424

1514-D North Susan Street  
Santa Ana, CA 92703  
(714) 554-2645  
FAX (714) 554-4960

March 23, 1989

CH 89-194

So. Nevada Lightweight  
4675 Wynn Road  
Las Vegas, NV. 89103

Subject: One sample of Natural Pozzolon submitted  
on February 17, 1989

Specification: ASTM C618 Class N

Results:

	<u>Sample</u>	<u>Requirements</u>
Moisture	1.01%	3.0% max.
Dry Basis		
Silicon Dioxide (SiO <sub>2</sub> )	75.28%	
Aluminum Oxide (Al <sub>2</sub> O <sub>3</sub> )	16.36%	
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	<u>0.35%</u>	
Sub Total	91.99%	70.0% min.
Calcium Oxide (CaO)	1.13%	
Magnesium Oxide (MgO)	0.56%	
Sulfur Trioxide (SO <sub>3</sub> )	0.00%	4.0% max.
Loss on Ignition	4.30%	10.0% max.
Available Alkalies	1.64%	*1.5% max.

\* Optional requirement

Physical Tests		
Specific Gravity (gms/cc)	2.32%	
Retained on 325 mesh screen	2.31%	34% max.
Pozzolanic Activity Index with Portland Cement	97.4	75% min.
Water requirement	100%	115% max.
Soundness (Autoclave expansion)	-0.01%	0.8% max.

TWINING LABORATORIES OF SOUTHERN CALIFORNIA, INC.

*H.R. Landwehr*  
H.R. Landwehr  
Chief Chemist

HRL/rrp/snl.1

MICROTRAC

01/27/89 12:57  
DATE TIME

RM-1019 SNL  
RUN #2 PALLA MILL  
SAMP. TIME = 60 SEC  
AVERAGE OF 3 RUNS  
SRA DATA

DV = 0.2669  
X10 = 1.85  
X50 = 7.79  
X99 = 40.45  
MV = 10.86  
CS = 1.324  
STD. DEV. = 8.94

PERCENT PASSING

CHAN.	CUM.	VOL.
=====	=====	=====
125	100.0	0.0
88	100.0	0.0
62	100.0	0.0
335 ✓ 44	100.0	3.7
31	96.3	9.6
22	86.7	10.9
16	75.8	13.3
11	62.5	12.5
7.8	50.1	11.0
5.5	39.1	11.5
3.9	27.6	10.2
2.8	17.4	6.9
1.9	10.5	5.1
1.4	5.5	3.3
0.9	2.2	2.2

Arizona Department of Mines and Mineral Resources

VERBAL INFORMATION SUMMARY

1. Information from: Burt of Chem-Stone Inc.
2. Address: 2215 W. Mountain View, Phoenix, AZ 85021
3. Phone: 997- 2013 or 1-800-223-3155
4. Mine: Arizona Rhyolite
5. County: Pinal
6. Summary of information received:

David L. Bellaire in his efforts to obtain a source of pumice for stone washing denim obtained a sample of pumacious rhyolite from Johnson-Stewart-Johnson's Arizona Rhyolite deposit. The material, although usable as a lightweight aggregate is not scorriaceous or lightweight enough for Chem-Stone's needs.

Date: 3/21/89

Engineer: Ken A. Phillips



J and A Company

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While assisting Wes Pierce of Arizona Bureau of Geology and Mineral Technology in determining the disposition of cinders mined from various properties in the Flagstaff area, it was learned that University Block Co. had shut down their Flagstaff area cinder quarry on December 31, 1979. They are now obtaining a light weight aggregate material, which they call "rhyolite" from a quarry in Florence Junction area, operated by J & A. A separate report has been written. KAP

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NJN WR 4/22/83: Wes Morgan with Arizona Pozzalan ASA Tuff Light Company, called seeking the location of a pozzalan deposit near Apache Junction. This could have been J & A Company's operation. Mr. Morgan said he would visit our office for additional details as they would like to find a pozzalan deposit close to the Phoenix area. Mr. Morgan also reported that his company supplied pozzalan from the Northeast side of the San Francisco Peaks for the construction of Glen Canyon Dam.

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NJN WR 2/1/85: John Torok, president of Torok Exploration, Mining and Construction, Reno, Nevada reported that Johnson Stewart and Johnson Mining Co., Inc. 1635 N. Alma School Road, Mesa, Arizona 85201 phone 834-1044 are producing a lightweight aggregate for highrise construction from a "junky" perlite-rhyolite deposit (J & A Co file) located in N NE of Florence Junction. The deposit is located (probably in T1S R10E) on state land but federal government retains minerals and doesn't call the material common variety. The material is marketed by Johnson Stewart Johnson by the name Arizona rhyolite.

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NJN WR 4/12/85: Dennis Bryan with Engineering Testing Associates, 737 Glendale Avenue, Sparks, NV 89431 reported at the Industrial Minerals Symposium in Tucson that Johnson, Stewart, and Johnson (c) is currently producing a light weight aggregate from a pumiceous rhyolite breccia or perhaps a siliceous volcanic dome or tuff unit that is glassy. The deposit J & A Co (f) Pinal Co. is located on the edge of the Superstition Volcanic Field north of Florence Junction in Pinal County.

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NJN WR 11/1/85: Called Cliff Johnson of Johnson, Stewart, and Johnson Mining Co. (c) and discussed their Arizona Rhyolite property, Pinal County- file. Mr. Johnson reported that 3 years ago they mined the property full time but since the recession have not put as much into marketing the material. Currently they mine there 30 days a year. The property consists of the Arizona Rhyolite #1-23 Claim Group located mainly in T1S R10E Sec 21 (Florence Junction Quad) parts of the claim group are also in Sec 9, 14, 22, 23.

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

1. Information from: HERB BEACH ACCOUNTANT "JOHNSON STEWART CO."

Address: 1635 N. Alma School Road, Mesa, Arizona 85201 Phone: 834-1044

2. Mine: \_\_\_\_\_ 3. No. of Claims - Patented \_\_\_\_\_  
Unpatented \_\_\_\_\_

4. Location: Florence Junction Area (details not presently available)

5. Sec \_\_\_\_\_ Tp \_\_\_\_\_ Range \_\_\_\_\_ 6. Mining District \_\_\_\_\_

*File Name* →

7. Owner: J and A Company

8. Address: \_\_\_\_\_

9. Operating Co.: \_\_\_\_\_

10. Address: \_\_\_\_\_

→ 11. President: Earl Johnson & Ray Bossie 12. Gen. Mgr.: \_\_\_\_\_

→ 13. Principal Metals: Lightweight Aggregate 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: Producing "rhyolite" lightweight aggregate for  
University Block Company.

Material is possibly rhyolitic tuff or pumice.

More details should be available when owners can  
be contacted.

Date: September 25, 1980

KAP;mw

  
\_\_\_\_\_  
(Signature)

(Field Engineer)  
Ken A. Phillips

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

1. Information from: UNIVERSITY BLOCK COMPANY  
Address: 4623 E. University Dr., Phoenix, Arizona 85034 Phone: 275-8714
2. Mine: \_\_\_\_\_ 3. No. of Claims - Patented \_\_\_\_\_  
Unpatented \_\_\_\_\_
4. Location: Northeast of Flagstaff in area of Sunset Crater.
5. Sec \_\_\_\_\_ Tp \_\_\_\_\_ Range \_\_\_\_\_ 6. Mining District Flagstaff
7. Owner: University Block Company
8. Address: 4623 E. University Drive, Phoenix, Arizona 85034
9. Operating Co.: \_\_\_\_\_
10. Address: \_\_\_\_\_
11. President: \_\_\_\_\_ 12. Gen. Mgr.: \_\_\_\_\_
13. Principal Metals: Cinders 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: Cinder pit closed down December 1979  
Is now obtaining lightweight aggregate from  
J & A Company.

Date: September 25, 1980  
KAP:mw

Ken A. Phillips  
(Signature)  
(Field Engineer)  
Ken A. Phillips