



## **CONTACT INFORMATION**

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10/14/97

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: KIRKLAND TUFF QUARRY

ALTERNATE NAMES:

MAGIC MOUNTAIN  
RYNEARSON  
CAPITOL QUARRY

YAVAPAI COUNTY MILS NUMBER: 351

LOCATION: TOWNSHIP 13 N RANGE 4 W SECTION 28 QUARTER SW  
LATITUDE: N 34DEG 25MIN 57SEC LONGITUDE: W 112DEG 41MIN 09SEC  
TOPO MAP NAME: KIRKLAND - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

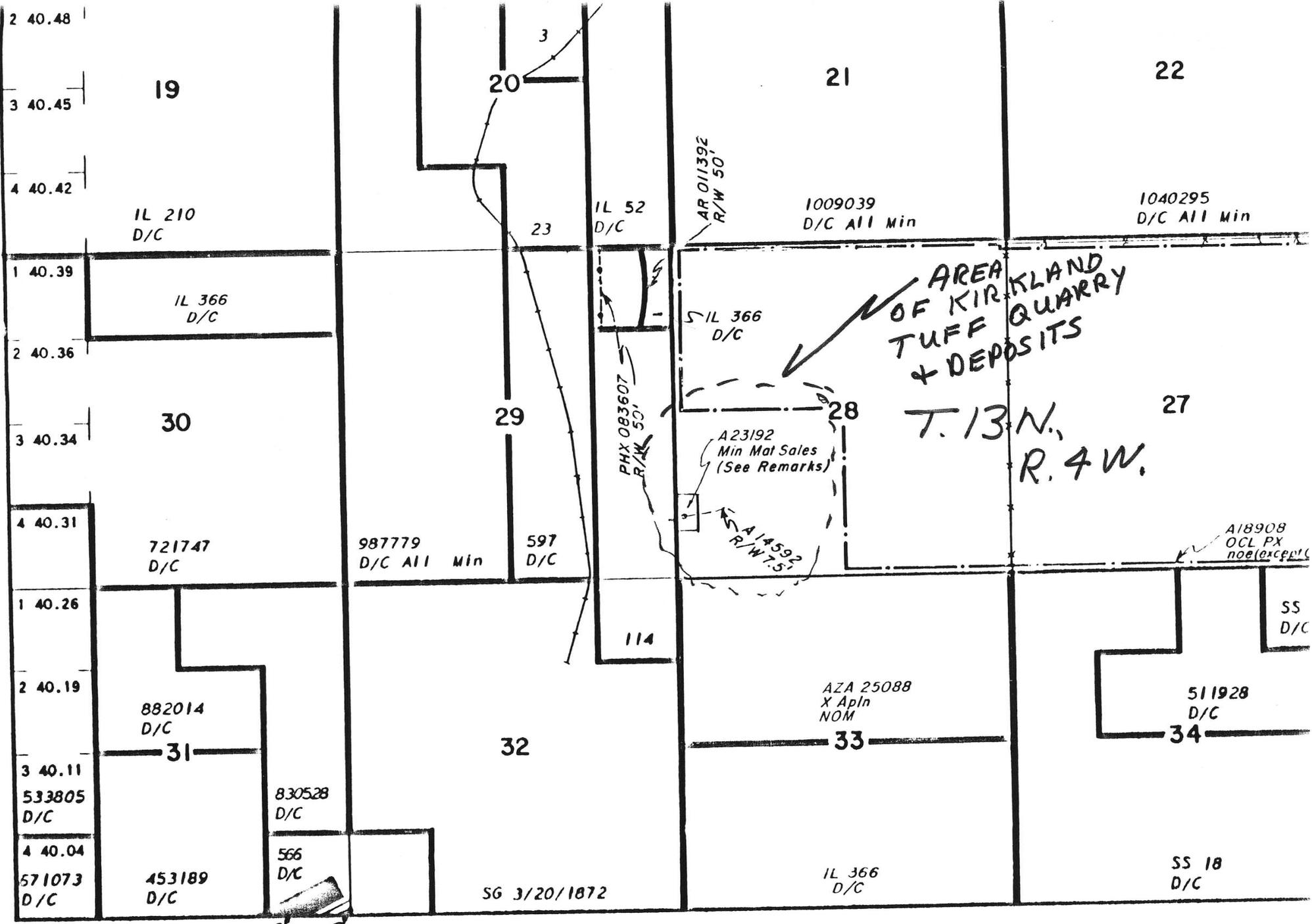
PUMICE PUMICITE  
STONE TUFF DIMENS

BIBLIOGRAPHY:

ADMMR KIRKLAND TUFF QUARRY  
ELEVATORSKE, E.A. AZ. IND. MIN. ADMMR PUB  
1978 P 63



Kirkland Tuff File



ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

Arizona  
Yavapai Co.

Kirkland

MM5753 Tuff  
MM5754 Tuff  
MM5755 Tuff, Crushed  
MM5759 Paper bag for crushed tuff  
MM M 005 Tuff

*UMILS # 351*

*2-AKA's*

*Kirkland Tuff Quarry (file)*

**Nyal Niemuth**

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**From:** "Jim and Harriet Neal" <hjneal@northlink.com>  
**To:** <njn22r@hotmail.com>  
**Cc:** <kenfillups@hotmail.com>  
**Sent:** Friday, November 17, 2000 9:24 AM  
**Subject:** stone quarries

Hi Nyal:

Was great meeting you on Wednesday! And I appreciate your help in showing me the quarry files. I'd like to suggest that at a future date I take you and/or Ken out and show you the Prescott quarry sites, which are all inactive and have been for at least 70 years, except for gypsy operators. I could at the same time show you the other downtown stones, which came from Flagstaff and Sedona, I believe. At least those are the type localities for the stone that was used. The combined building/quarry tour would take 4 or 5 hours.

There are about five separate granodiorite quarries. The "Courthouse Quarry," which is the largest, is in Section 29 off of Downer Trail and some 1500' SE of Forbing Park.

I have also located the tuff quarry in Sections 16/21 for the Prescott Armory and the Old Sacred Heart Church. This stone is a gray/muave color and was originally called Prescott sandstone, probably because it has conspicuous bedding.

Thanks again for your help; I'd like to peruse your files again sometime... Jim

KIRKLAND TUFF QUARRY

YAVAPAI COUNTY

KAP WR 7/1/88: Passed the Kirkland Tuff Quarry (file) Yavapai County while en route to another property. It was noted that the quarry is still inactive but a new sign was in place containing the name "Arizona Tuff". (see card)

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KIRKLAND QUARRY

YAVAPAI COUNTY

NJN WR 5//30/86: Pete Reblitz reported that Arizona Tufa Mining Corp., 143 N. McCormick, #206, Prescott, Arizona 86301, ph: 778-7883, is the company planning to restart the Kirkland Tuff Quarry (file) Yavapai County. Perry Haddon will be the general manager. Joseph Madol of San Francisco, Calif. is president of the company.

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NJN WR 4/10/87: Pete Reblitz reported that Arizona Tufa Mining Corp (c) plans to reopen the Kirkland Tuff Quarry (file) Yavapai County, have failed to materialize.

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KAP WR 5/1/87: In the company of Nyal Niemuth a visit was made to the Kirkland Tuff Quarry (file) Yavapai County. The primary purpose of the visit was to determine its proper location. As a result of a brief interview with Mrs. Rynerson it was verified that the Kirkland Tuff Quarry is also the Rynerson Quarry, the location of Magic Mountain Mining's cat litter and floor sweep operation, the Maverick Mine, and the source of the tuff dimension stone used in constructing the exterior upper floors of the State Capitol building in Phoenix. A sample of tuff was brought back for inclusion into the Museum's collection, catalogged as MM-M005. The specimen was tested with hydrochloric acid for the presence of carbonates, none were detected, thus indicating the rock is tuff and not tufa. The last operation was that of Magic Mountain Mining's to produce cat litter and floor sweep. Tens of thousands of tons of fines (waste) from that operation remain on the property.

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NJN WR 4/24/87: On Saturday, with engineer Ken Phillips, visited the Kirkland Tuff Quarry (file) Yavapai County. The purpose of the visit was to check the locality, we were uncertain of our data. All crushing and mining equipment has been removed except for one storage tank.

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NJN WR 11/27/87: Frand Brinegan of Ft Lauderdale, Florida called for information of Arizona Tufa Mining Corp (card) and the Kirkland Tuff Quarry (file) Yavapai County. He reports that the Mormon Church currently owns the mine. He was doing a preliminary market study for the mine product.

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NJN WR 8/26/83: Randy Glen of Crist Machinery called with some questions about crushing tuff. Apparently Tufa Corporation is trying to increase their production capacity and Crist Machinery is going to supply them with a new crusher.

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NJN WR 8/26/83: It was reported that Tufa Corporation is producing at a rate of 1200 tons of tuff per month.

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KAP WR 2/15/85: A visit was made to the Tufa Corporation-Magic Mountain tuff quarry just northeast of Kirkland. The operation is shut down, most of the equipment is gone and gate is locked. Local inquiry revealed the mining operation shut down in November of 1984 and much of the equipment had been repossessed. The community of Kirkland easily feels the loss of approximately 20 jobs. The file covering this property and operation is the Kirkland Tuff Quarry, Yavapai County. It has also been known as the Maverick Mine, the Magic Mountain Mine, the Capitol Quarry and the Rynearson Tuff Quarry.

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NJN WR 8/16/85: Dave Pauletto's (c) secretary visited and reported that Pahoco Ltd (c) is planning to take over the Kirkland Tuff Quarry (f) Yavapai County.

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KAP WR 1/31/86: Mr. E. J. Boudreau, phone 242-8433 was in and reported he operated the tuff quarry (Kirkland Tuff Quarry- file), Yavapai County and stone cutting yard in Phoenix under the name of Capitol Quarries when tuff dimension stone was used for the State Capitol addition. He explained that all of the equipment for that project has long ago been shipped back to Texas. He went on to explain that to set up the equipment for a dimension stone cutting yard would require a guaranteed order of at least 100,000 square feet of cut facing stone. He, like many others hopes for a renewed interest in the use of building stone.

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RYNEARSON TUFF QUARRIES

YAVAPAI CO.

Telephone conversation with Mr. Unzicker 1/22/80.

Maverick Mining Co. sold their claims (formerly Ryneerson Tuff Quarries to Magic Mountain Mining Co. Main office is in San Francisco. Vincent Duff is president and Larry Strauss is Vice President and Sales Manager. Their representative in Kirkland is Mr. Dave Fish with offices in their Kirkland Warehouse.

Mr. E.A. Unzicker will do the mining, crushing and bagging. He apparently is one of the former owners and participants with a Mr. Gene De Shores. Production is expected at 2,000 tons per month.

Kirkland Telephone (Mr. Unzicker) 442-3257 (3836 A(37))

JHJ/ap

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KP/WR 1/21/80 - The Maverick Mine is awaiting dryer weather to continue filling orders. The tuff processed for use as oil sweep and kitty litter easily absorbs rain water or becomes too wet for processing. Building a covered pad capable of protecting a few months supply of crude material from rain might prove valuable.

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RRB WR 11/13/81: Joe Kerwin of Magic Mtn. Mining reports that they are replacing their old leased equipment with their own new equipment and should be back in production by the end of the year. He extended an open invitation to the Department to stop by whenever we're in the vicinity.

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NJN WR 12/18/81: Bill Hargrove of the Santa Fe Railroad called. He needed to know what material the Tufa Corp. - dba Magic Mountain Mining was producing to determine the shipping rate to charge them.

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RRB WR 3/12/82: Visited with Joe Kirwin at the Tufa Corporation dba Magic Mountain Mining Company near Kirkland. They have purchased equipment to replace leased equipment but were down because of a bad bearing in the screening plant at the time of my visit.

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RYNEARSON TUFF QUARRIES

JHJ's Memo, May 31, 1979 - Stopped at oil absorbent - Kitty Litter Mine, (3) miles (est.) east of Kirkland. They are shipping oil absorbent only due to lack of funds to purchase 10-lb litter bags. They are shipping about 125-150 Tons/wk into Tucson and Phoenix. A trial run of 8 tons was sold to Tanner Construction for light weight aggregate. It is doubtful if this material is as light as the scoria from Flagstaff but it has the advantage it can be used with any color. They have \$200,000 invested in the property (their estimate and are presently negotiating with a San Francisco firm.

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**MAVERICK MINING**

P. O. BOX 70

KIRKLAND, ARIZONA 86332

Gene De Shores

442-3494

*mining Contractor*

RYNEARSON TUFF QUARRIES

YAVAPAI COUNTY

Visited Capitol Quarries 2½ miles north of Kirkland. 4 men working cutting stone for facing the new addition to the State Capitol building in Phoenix. TPL 1-5-59

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Visited the Haley Bros. (of Texas) stone cutting plant at 35th Avenue and Broadway, Phoenix. They are cutting the veneer facing stone (tuffa) for the additions to the Arizona State Capitol Bldg. The plant consists of a large gang saw which handles 20 saw blades. Two blocks of stone are handled in tandem on the machine bed. Other essential equipment consists of an edge trimming cutter, a smoother, a portable crane, and a slab hoist. The slabs are sawed for a thickness of 3 5/8" in a variety of plane dimensions principally 4' x 5'. The work is carried on 24 hours a day with 2-12 hour tours composed of 4 men each. Each of the Haley brothers supervises a tour. They expect to be finished with the work in hand within 6-8 weeks. TPL WR 5-11-59

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Went to Kirkland where Mr. Ryneason was contacted regarding clay deposits. He and his father has quarried a buff breccia for use as building stone; some of it has been used in the State Capitol Building. The deposit is in Sec. 29, 28, & 33, T13N, R1W. Mr. Ryneason knew of no clay deposits but gave directions to a Mr. Jones in Hillside.  
GW WR 9-29-73

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Samples here described from the mine listed below are are contained in the AzDMMR collection of reference samples.

Date Taken: 03/15/90  
Date Logged: 10/04/93  
Sample Number: 03/15/90-040

MINE: Kirkland Tuff *Quarry (file)*  
COUNTY: Yavapai  
LOCATION: Main quarry, specimen of dimension stone.  
DESCRIPTION: Tuff specimen 4" X 6" X 12"  
MATERIAL: Tuff. Partially indurated volcanic ash  
COMMENTS: The tuff that the upper levels of the Arizona State Capitol building are faced with. NOT TO BE CONFUSED WITH TUFA.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Frank Daniels, Phoenix District - BLM
2. Address:
3. Phone:
4. Mine or property name: Kirkland Tuff Quarry
5. ADMMR Mine file: Same
6. County: Yavapai
7. MILS number: 351
8. Operations Status:
9. Summary of information received, comments, etc:

The subject property is located in the SW $\frac{1}{4}$ , Sec 28 and NW $\frac{1}{4}$ , Sec 33, T13N, R4W. The NW $\frac{1}{4}$ , Sec 33 is Federal Minerals, but withdrawn for possible exchange. The SW $\frac{1}{4}$ , Sec 28 is open to mineral entry, but contains a material sale to Quantum International, 6545 N. 19th Ave., C14, Phoenix, AZ 85015 for tuff. The sale is on 20 acres and is supposed to end in June, 1993. No material has been produced under the sale. He explained that there could be more than one material sale from the same property.

Date: 4/8/91

Ken Phillips 

For: Mr. E. J. Boudreau  
2022 W. Oregon Avenue  
Phoenix, Arizona

Date: March 25, 1958

Lab. No.: P-60131

Received: 3-20-58

Marked: Material: Tuff Stone  
Project: Senate & House Capitol Building  
Source of Sample: Kirkland  
Date Made: 3-20-58

Submitted by: Ed Boudreau

Report of Concrete Block Tests

Block No.	Width (In.)	Length (In.)	Height (In.)	Area (Sq. In.)	Total Load	Lbs./Sq. In.	Absorption Lbs./Cu. Ft.	Absorption %	Moisture Cont. %
A	2.813	2.875	2.063	8.08	26,500	3280		13.2	
B	2.938	2.938	2.063	8.63	28,100	3256			



Respectfully submitted,

ARIZONA TESTING LABORATORIES

*G. F. D. Gonsalves*  
G. F. D. Gonsalves

PHYSICAL TESTING

7/12/89

**SH&G**

Smith, Hinchman & Grylls/Southwest, Inc.  
1001 North Central Avenue Phoenix, Arizona 85004  
602/253-1661  
Architects Engineers Interior Designers Planners  
A Member of The Smith Group Inc.

Marlene S. Imirzian, RA  
Project Designer

ARCHITECTS DESIGNING

NEW STATE BUILDING

WHICH MAY USE TUFF FROM

KIRKLAND TUFF QUARRY.

MR. BOURKEAU IS ~~WANT~~ HOPEING

TO SUPPLY THE PRIMARY BUILDING CONTRACTOR

BUILDING TO BE LOCATED NEAR

NJN

SENATE W/IN CAPITAL.

Put copy in Kirkland Tuff  
CASA (P)  
J

March 19, 1986

Christopher A. Dilley  
396 Coleman Dr. S.E.  
Winter Haven, FL 33880  
(813) 324-2562

Nyal Niemuth  
State of Arizona  
Department of Mines & Mineral Resources  
Mineral Bldg., Fairgrounds  
Phoenix, Arizona 85007

Dear Nyal:

Thanks for the information you provided me during my short visit to Phoenix. I am back in Florida for now, however my wife is staying at 2424 E. Amelia in Phoenix, telephone number 224-0058. Her name is Patricia. If by chance you run into anyone who might be interested in hiring me, I would appreciate it if you could let her know in case I am out of town. Of course, with the industry as depressed as it is, that might be wishful thinking.

The museum there is really lovely. I plan to see it again when I return to Arizona. I am sure the map and active mines list will be a big help during my job search.

By the way, I forgot to ask while I was there, but when in Prescott, I saw an article on a company that was going to mine "tufa" at a 360 acre site near Kirkland. The company is called Arizona Tufa Mining Corporation. President is Jozsef Madol, holding company is European Crown International, a trading company, based in San Francisco. I could not find any phone numbers of anyone connected with them. Also, could not get a number for ECI in California or New York.

Can you help me obtain some info? I would appreciate it. They say they are going to hire and expect to be operational by May 15.

Again, my pleasure in meeting you. Hope to be able to attend AIME meetings there very soon.

Best,

  
Christopher A. Dilley

Jim Matt

RECEIVED  
MAR 24 1986  
DEPT. OF MINES &  
MINERAL RESOURCES



CHRISTOPHER A. DILLEY  
MINERALS & MINING  
SMALL MINE CONSULTING  
P.O. BOX 1645  
EATON PARK, FL 33840

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Rynearson Tuff Quarries

Date November 28, 1958

District Copper Basin, Yavapai County

Engineer Travis P. Lane

Subject: Visit

The property comprises 4 unpatented claims and is located some 3 miles north of Kirkland. The quarries are a short distance east from the Iron Springs road connecting Kirkland and Prescott.

Owner: Harold Rynearson, Kirkland, Arizona. The ownership of the claims has rested in the Rynearson family since 1896. The family also at one time owned a large area of patented land adjoining the claims. This land embraces practically all the tuff rock of the region. When title was transferred to others the mineral rights were withheld by the Rynearsons. Practically all the quarrying operations, however, have been centered in the unpatented mining claims. The tuff rock of the Arizona State Capitol building was derived from these quarries.

Lessee: The property is presently leased to Capitol Quarries (composed of a Mr. Budreau and the Mardian Construction Company) and tuff rock is being quarried to furnish veneer panels for the addition to the capitol building which is under contract construction by Mardian Construction Corporation. Three men are engaged in the quarrying operation including Harold Rynearson, who is in charge. E.C. (Budreau)

Sawing of the large quarried blocks will be done under contract, probably to some Texas people who are now negotiating with Capitol Quarries. Possibly the sawing plant will be set up in Phoenix instead of at the property, as formerly, in order to avoid the risk of interruption of the operation during occasional winter storms in the quarry region.

It is anticipated that about 1000 tons of stone veneer will be required for the capitol job. The stone specifications prohibit blasting in the quarrying of the stone and therefore the old quarries which are situated in rugged terrain, are not being worked, but instead a new comparatively flat area has been stripped and will be quarried to a depth of about three blocks (somewhat over 5 feet cubic measurement each). The blocks are broken out by wagon drilling of a series of closely spaced holes with a  $2\frac{1}{2}$ " bit and breaking out between holes with a 3" bit.

The quarry blocks will be sawed to make panels 4" thick with areal dimensions of 5' x 5', 4' x 5', or 2' x 5'. The panel size (except the thickness of 4") has not yet been definitely designated by the architect for the project.

checked 5/11/80 JH

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

SEE: RYNEARSON TUFF  
QUARRIES

Mine	MAVERICK	Date	April 25, 1980
District	Kirkland (Yavapai County)	Engineer	Clifford J. Hicks
Subject:	Field Visit		

The Maverick Mine is located 1.9 miles north of Kirkland, 0.2 miles east of the Skull Valley Highway. The turn-off is marked by an L.D.S. Ward House. The Maverick Tuff Mine is operated by the Magic Mountain Mining Co. The mine manager is Mr. Glen Tomlinson, Kirkland, Arizona, phone 442-3805.

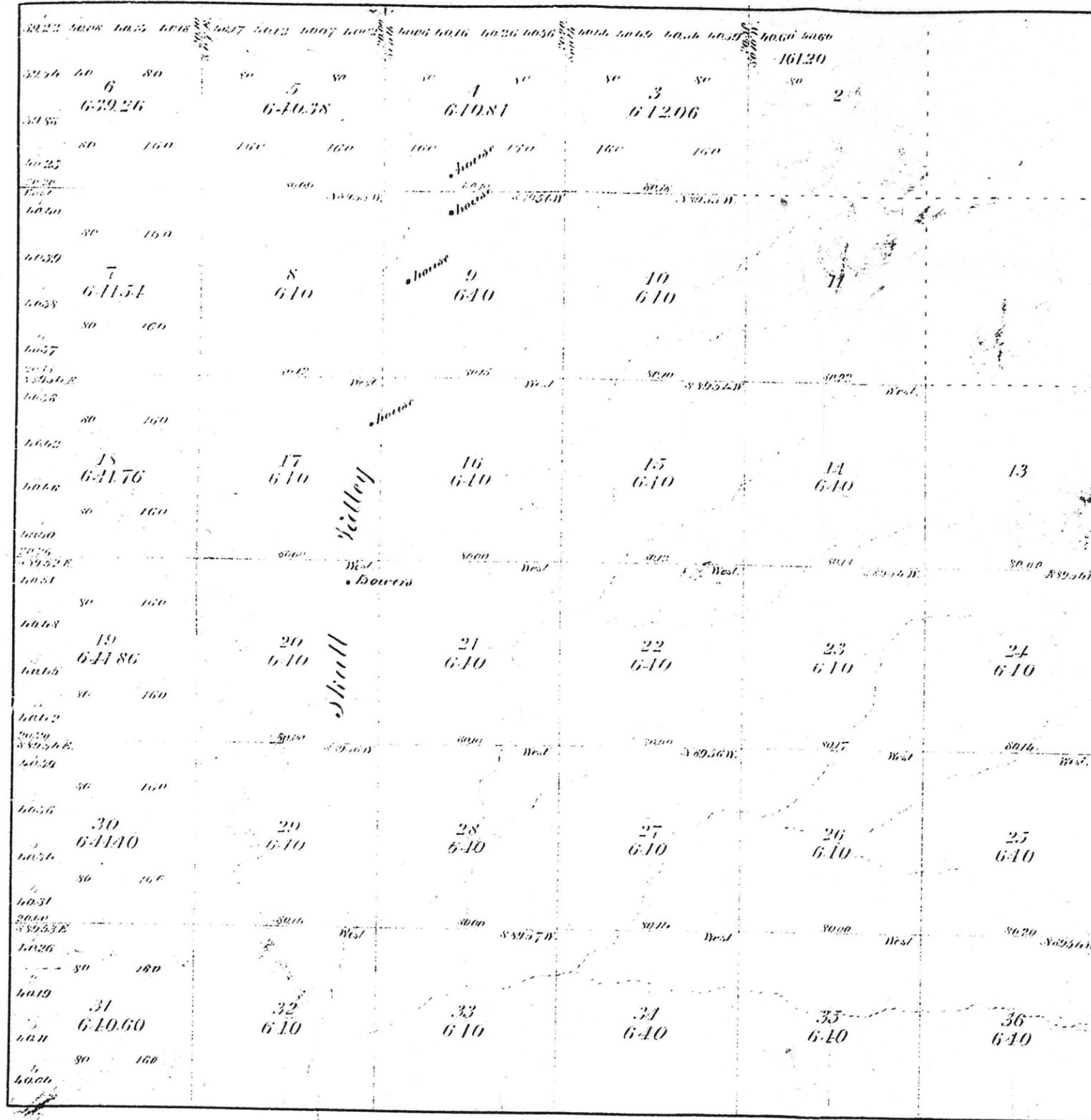
The white tuff is ripped, crushed (gyratory) to  $\frac{1}{16}$  -  $\frac{3}{16}$ ", screened, dried (propane fired kiln), sacked (50# paper sacks) and marketed under the brand name "Xtrasorb". Shipping is in large trailer trucks on pellets that are handled by a fork lift. The production is 15 t./hr.

Mr. Tomlinson complained about his gyratory crusher producing an excess of fines with too little capacity. Mr. Jett, DMR Director, suggested that he might try a jaw crusher or an impact or hammer mill.

CJH:mw

TOWNSHIP NO 13 NORTH RANGE NO 4 WEST  
GILA AND SALT RIVER MERIDIAN

Kirkland Tuff Quarry 2969  
Yavapai County  
OFFICIALLY FILED 4-15-1872



Land Survey Plots  
of Township containing  
Kirkland Tuff Quarry

Acres of public land surveyed. 20550.50  
do. of unreserved land 2700.00  
Total 23250.50

Subdivided into sections at a variation of 15° 47' East

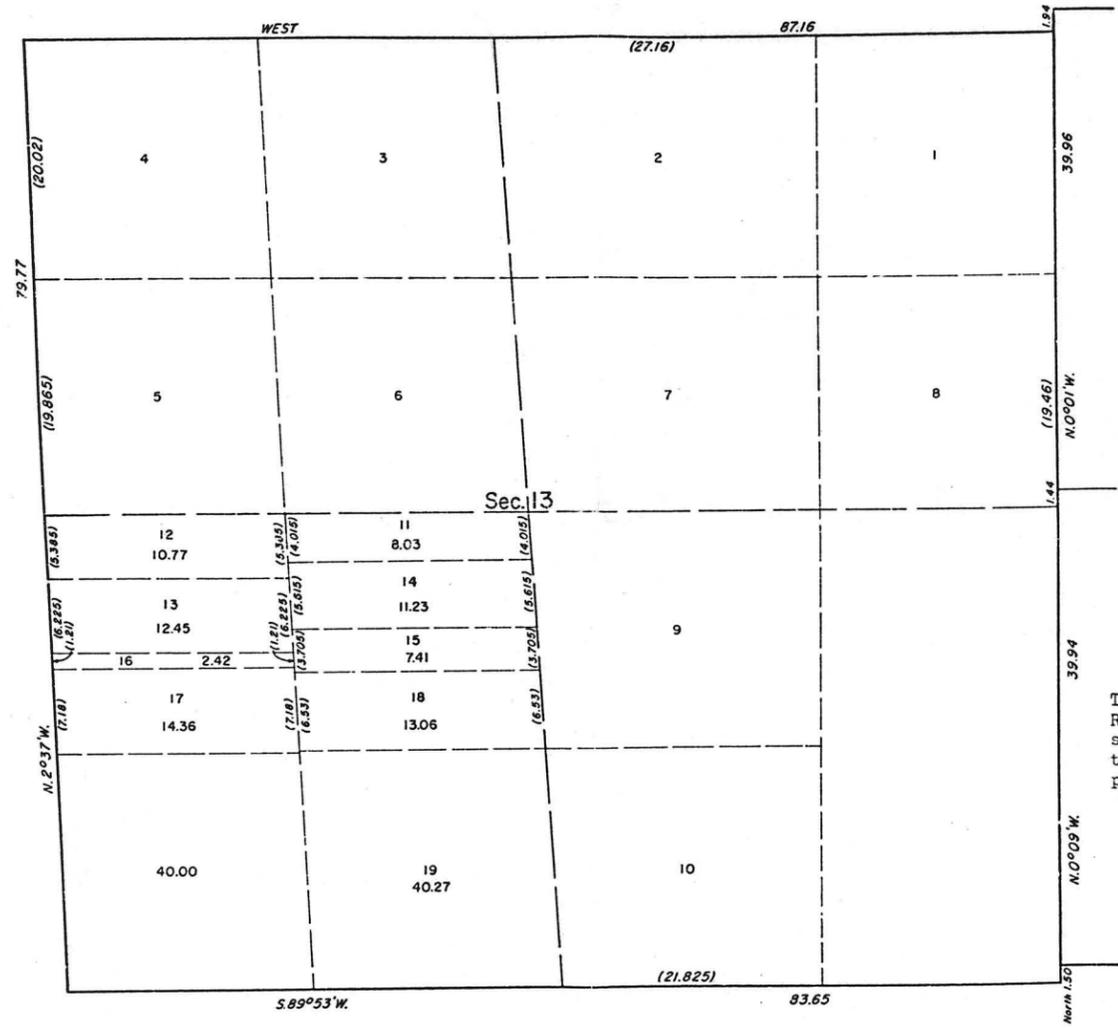
Survey	By whom surveyed	Date of Contract	Acres of Section	When Surveyed
Survey of lands	S. W. Furman	Aug 29, 1871	20,000	July 28, 1871
Subdivision	do	October 14	35 - 3 - 74	July 1-13, 1872

The above map of Township 13 North of Range 4 West of the Gila and Salt River Meridian is strictly conformable to the field notes of the survey thereof on file in this office, which have been examined and approved.  
Surveyor General's Office  
J. W. Freeman

# TOWNSHIP 13 NORTH, RANGE 4 WEST, OF THE GILA AND SALT RIVER MERIDIAN, ARIZONA

## SUPPLEMENTAL PLAT OF SECTION 13

OFFICIALLY FILED 8-13-1963



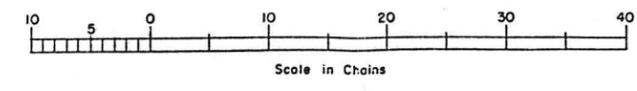
This supplemental plat of sec. 13, Township 13 North, Range 4 West, Gila and Salt River Meridian, Arizona, showing additional lottings to accommodate small selection rights of the State of Arizona, is based upon the plat accepted September 26, 1945.

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
Washington, D.C. July 17, 1963

This plat, showing amended lottings, is based upon the official records, and having been correctly prepared in accordance with the regulations, is hereby accepted.

For the Director

*E. J. Huntington*  
Chief, Division of Engineering



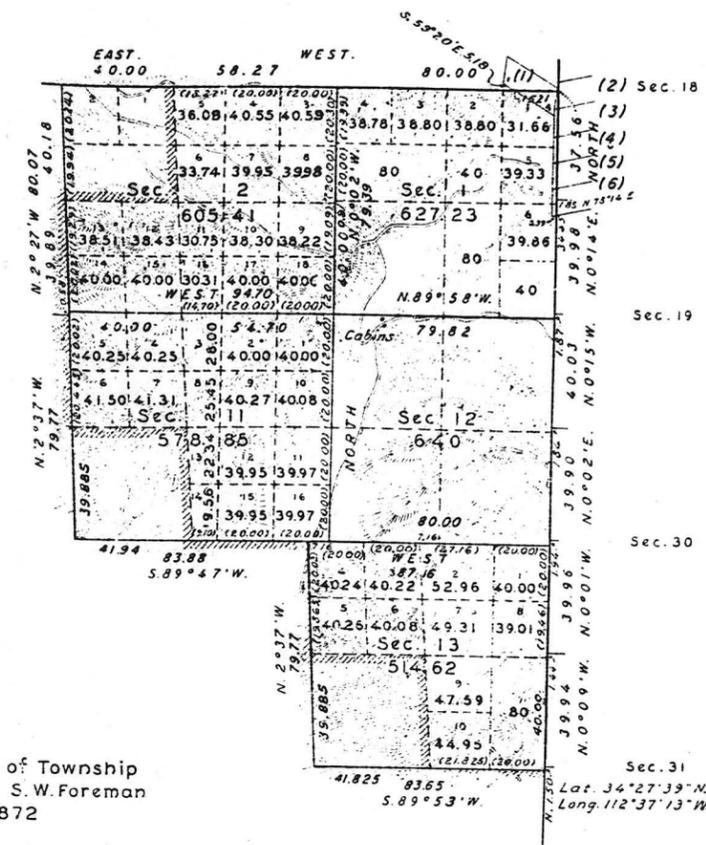
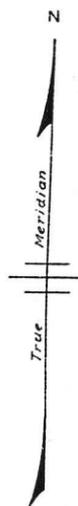
TOWNSHIP N° 13 NORTH, RANGE N° 4 WEST, GILA AND SALT RIVER MERIDIAN, ARIZONA.

2968

LIST OF MINERAL CLAIMS

No. SUR.	NAME	LODE
(1) 3802	GREY EAGLE	..
(2) ..	BUENA VISTA	..
(3) ..	POCAHONTAS	..
(4) ..	MORNING STAR No. 3	..
(5) ..	HOME RUN	..
(6) ..	ARIZONA	..

The numbers (1) to (6) appearing in the mineral claims on this plat have reference only to the above tabulation.



Remainder of Township Surveyed by S.W. Foreman in 1871 and 1872

Reference will be made to the plat approved March 20, 1872 for the showing of the areas in the resurveyed portion of the township.

Area, Exclusive of Segregation	2966.11	Acres.
Segregation	7.97	"
Area Resurveyed	481.20	"
Total Area	3455.28	"

Scale: 1 inch = 40 chains.

LINES DESIGNATED	BY WHOM SURVEYED	GROUP No.	DATE OF SPECIAL INSTRUCTIONS	WHEN SURVEYED	
				BEGUN	COMPLETED
Exterior	R.F. Moss	228	July 13, 1939	May 30, 1940	
Subdivisional					June 21, 1940
Exterior	B. J. Kinsey			1933	1933
"	J. F. Hesse			1914	1914

OFFICIALLY FILED 2-10-1948

UNITED STATES DEPARTMENT OF THE INTERIOR  
GENERAL LAND OFFICE

Denver, Colorado, June 13, 1945  
This plat of Township No. 13 North, Range No. 4 West, of the Gila and Salt River Meridian, Arizona, is strictly conformable to the field notes of the survey thereof which have been examined and approved.

Washington, D.C., SEPT. 26, 1945  
The survey represented by this plat having been correctly executed in accordance with the requirements of law and the regulations of this office, is hereby accepted.

*[Signature]*  
Supervisor of Surveys.

*[Signature]*  
Assistant Commissioner.