

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

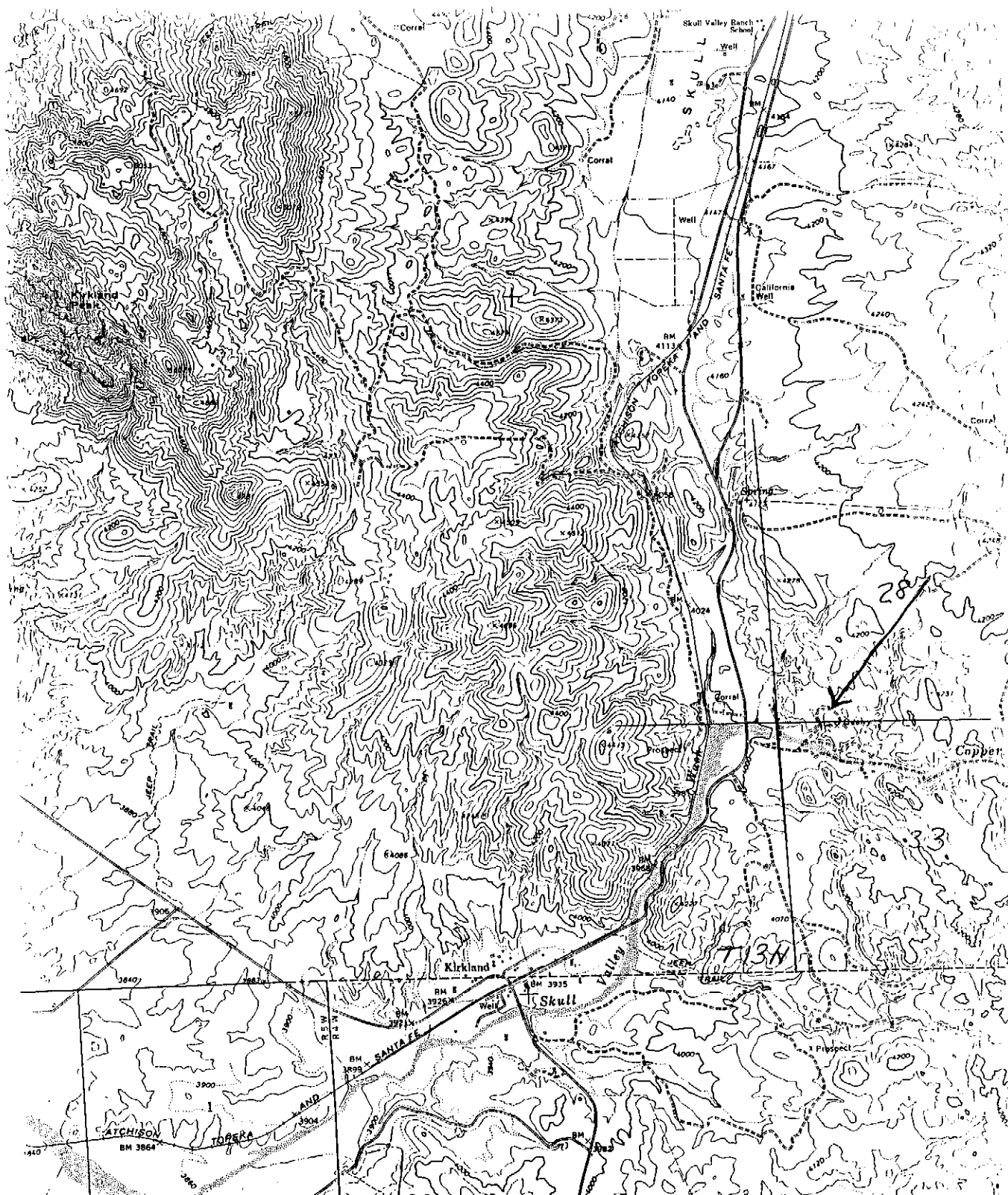
CURRENT STATUS: PAST PRODUCER

COMMODITY:

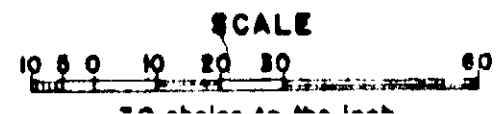
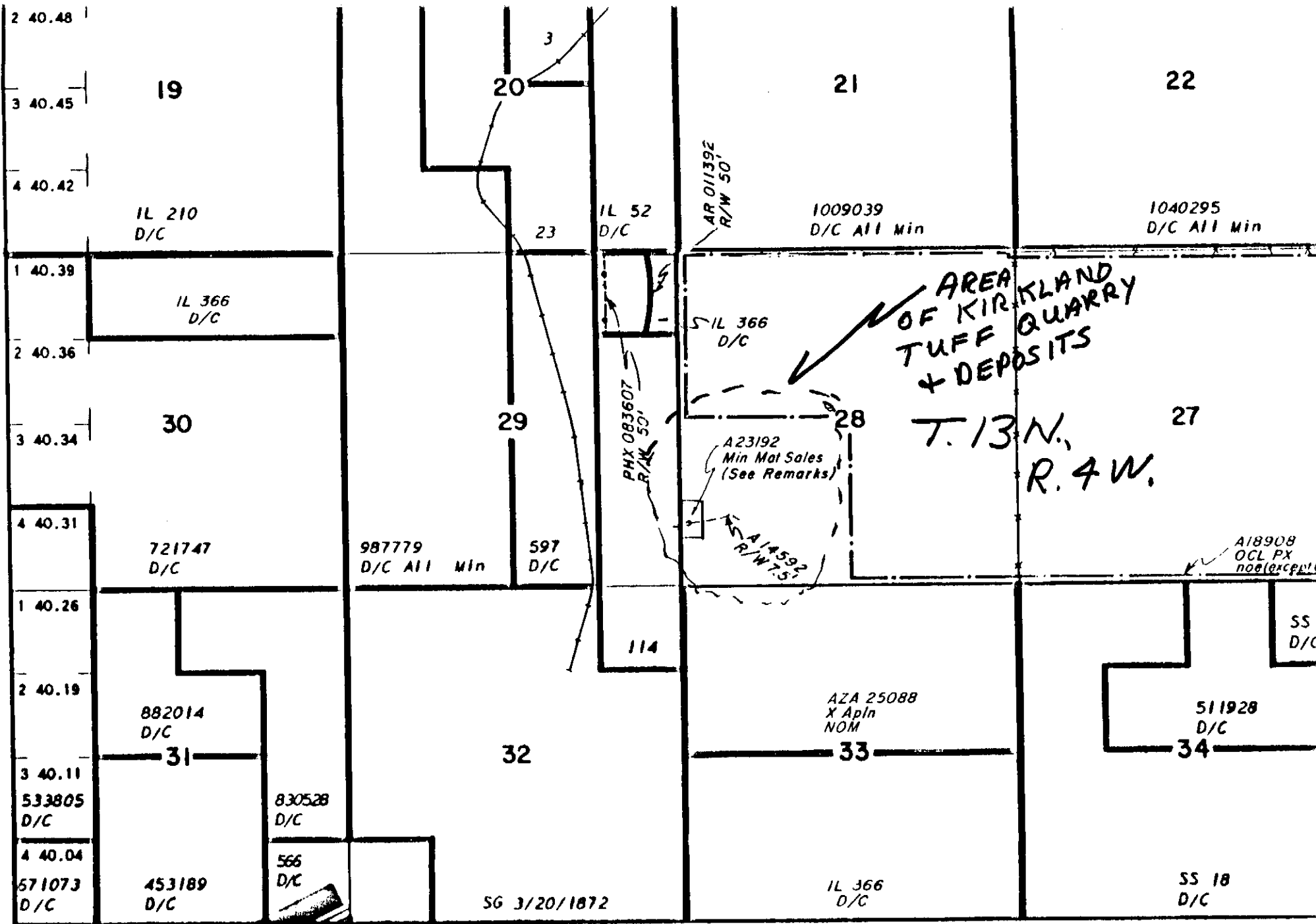
PUMICE PUMICITE  
STONE TUFF DIMENS

BIBLIOGRAPHY:

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



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

UNILS # 351  
2-AKA's  
Kirkland Tuff Quarry (file)

...dismissed after the trial  
April 23 because one of the  
of New Arizona Family  
20 N. Second St., was  
ble for the trial.

had asked the jury to  
m, saying he was tempo-  
ane when he killed Gabriel  
Aug. 7, 1985.

testified.

He had been drinking for two  
days and was caught over break-  
ing up with his girlfriend, Dahna  
Larsen. She had left him in July  
and taken their son, John Jess, with  
her to New Arizona Family in  
Phoenix.

— Dad, B7

*Kirkland*  
*Tuff Duff*  
**others**

## Litter problem Firm wants to mine rock for cats' use

By FRED SMITH  
Yavapai County Bureau

**KIRKLAND** — A lot of  
folks are interested in what's  
going to happen to a rock pile  
beneath a series of white cliffs  
just north of here.

The rocks are leftovers from  
volcanic eruptions several  
millions years ago.

They are tuff, as in tough, or  
tufa, as in *foofa*.

Tufa, as the rock is more  
commonly known, has had  
several applications. Those  
who have used tufa for building  
purposes, including the plan-  
ners of the state Capitol and  
other buildings in Phoenix, say  
it is unparalleled in beauty and  
stamina and is a fine insulator.

The rock also has gained  
some renown in recent years as  
an absorbent — for floor  
sweepings and, of all things, for  
cat litter.

And therein lies the latest  
environmental flap in the Pres-  
cott

Two months ago, a small  
group of Prescott and Phoenix  
promoters, calling themselves  
the Arizona Tufa Mining  
Corp., announced plans to res-  
urrect a cat-litter operation at  
the rock pile. They said they  
would quarry the material and  
grind it up for sale.

The operation promised to  
be similar to those of two  
predecessors in recent years,  
both of which failed financially.

But the new group, which  
vowed to create jobs in what  
some folks call an economically  
strapped area, is running into  
some bureaucratic roadblocks.

First, it had to get a use  
permit from Yavapai County,  
which governs the use of the  
access road to the quarry. It got  
a preliminary OK recently  
from the Yavapai County Plan-  
ning and Zoning Commission,  
but it still must receive the  
blessing of the county Board of  
Supervisors.

Next, it will need a permit  
from the federal Bureau of  
Land Management, which  
owns the land on which the  
quarry sits.

Finally, it will have to ap-  
pear before the Citizens for the  
Protection of the Prescott  
Area, a group of environmental  
watchdogs that warns any-  
time that the blasting will not

— Litter, B7

The AZ Republic / Sunday 5-25-86

# Litter

Continued from B1

affect the water table or create undue amounts of dust and that the operation generally will not upset the countryside.

So it may be some time before any cat litter is prepared again.

Harold Rynearson, 75, a retired stonemason who lives in a tufa-rock house near the quarry, is in the middle of all this.

From 1937 until several years ago, Rynearson held the leases from the BLM to the land on which much of the tufa sits. His father, C.D. Rynearson, held the leases for 40 years before that.

C.D. Rynearson, who died in 1939, saw the rock he quarried being used in high places, such as the state Capitol at the turn of the century and in the House and Senate wings later on.

The Rynearsons saw much of the rock they quarried being shipped for buildings in California.

Only Harold Rynearson is around now to see the rock they fancied going to the cats.

He is resigned to the idea.

For a piece of the action, he sold his BLM leases several years ago to the Maverick Mining Co., the first cat-litter producer near Kirkland.

Maverick sold those leases to the Arizona Tufa Mining Corp. earlier this year with a stipulation that Rynearson would continue to receive payments.

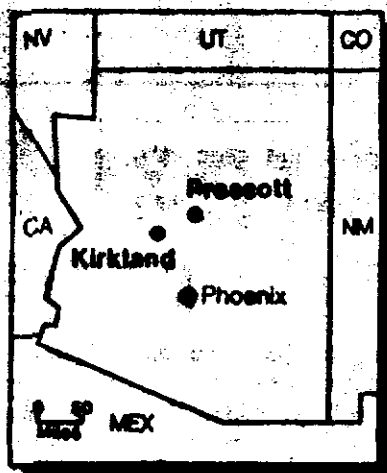
But during a chat last week at his rock house, Rynearson did not want to talk about cats or litter. Instead, he talked about the rock.

"Just about the best building material around," he said. "It's darn near weatherproof and will hold up better than firebrick in a fireplace. And it will stand the test of time.

"It's great for insulation, because it's so porous. Touch a rock that's been in the sun, and it'll feel cool."

He dropped a few names.

A fellow from the state showed up at his door recently and ex-



Republic

pressed an interest in buying tufa for future additions at the Capitol, Rynearson said.

Later, a man came by from Wickenburg and expressed interest in using tufa for a new house. And that funeral-home owner in Phoenix, A.L. Moore, just had to have some for the retirement home he is building just west of Kirkland.

Tufa has that attraction.

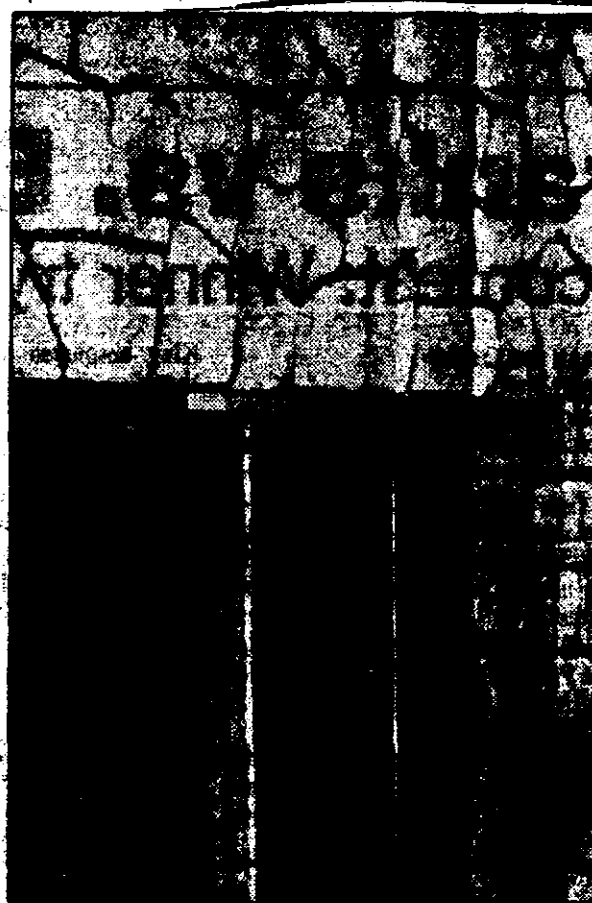
"It's beautiful," said George Leiphart, who works for the state Department of Administration in Phoenix and covets most of all the tufa-lined buildings at the Capitol complex.

In the beginning, according to Leiphart, the planners for Arizona's Capitol decided they would use native rock. They chose tufa, having been impressed by samples produced by C.D. Rynearson.

In the early 1970s, when the west wing of the Capitol was under consideration, the word went out for more tufa. Search parties discovered the deposit they wanted north of Kirkland but could find no one who knew how to quarry the stuff, so the state had to build the west wing with a different rock.

At the time, Harold Rynearson was working on a deposit in the Verde Valley.

This rock is not a rare breed. Geologists at Arizona State University say tufa can be found at many places in the Southwest. Rynearson has worked with tufa at quarries east of Cave Creek and near



Stonemason Holger Nilson lays tufa on the Nil garage of A.L. Moore's retirement home. da

Florence and Superior, and has heard talk of large deposits in California.

The mining itself is a bit complex. Rynearson used the "plug and feather" method, which involves drilling holes and splitting the rock with an ax.

When first mined, tufa is rather soft. It actually could be cut with a saw, although the saw wouldn't last long, Rynearson said. The rock hardens with exposure to the elements and slowly fades from its original white to a slight gray.

Laying the stuff is another matter.

But tufa masonry is a dying art, according to Rynearson. Until a few months ago, when Moore showed an interest, the only construction around here involving tufa was in 1979, the year Rynearson built his house.

"I knew t rock," Moon wonderful stu

Rynearson line the gate retirement bought 75 tor for the outside

Rynearson Nilson, a ston Valley, how Nilson learne Moore home.

"I'm up t Nilson said. for a guy w with blocks chipping, but it."

"Not bad," be up there la my shoulders and my eyes to be."

The new sig Road two mil says, "Arizona ration."

An unin wouldn't even



Fred Smith

on said that he is "up to 20 blocks a day. That's a snail's pace for a guy who's used to working with blocks that don't need any chipping, but I'm getting better at it."

the history behind the said. "Besides, it's f." donated some tufa to Moore built for his home. Moore then for the fireplace and of the garage. had to teach Holger mason from Prescott o quarry the tufa. how to lay it at the

20 blocks a day," That's a snail's pace 's used to working at don't need any I'm getting better at

Rynearson said. "I'd ing it myself, except von't work anymore, en't what they used

on the Skull Valley s north of Kirkland Tufa Mining Corpo-

listed passer-by hink of cat litter.



Harold Rynearson, a retired stonemason, stands in the tufa quarry. He says that tufa is "just about the best building material around."



# ARIZONA LIFE

QUARRY SAP  
and a stone mason's life

THE FATE OF FERTILITY  
NORTHLAND DESIGN  
HUMANE DIVORCE

**PLUS**  
FICTION BY  
LEW STEIGER

Formerly  
**YAVAPAI LIFE**





Harold Rynearson, 1985

# Quarry Sap

By Kate Allison

**N**ever look back, something may be gaining on you," Grandma said, over and over again. By God, she was right. Alone up in the quarry, the past rolled over me and I cried and cried. Even on a raw November day, it's hotter than hell up in the tufa, summer's intense heat hibernates in the corridors, always a motion away. Silence dominated the spires, breaks and seams and damn near muted the voices of long ago. Grandpa's father is buried across Copper Basin Wash. I suppose I'll be buried there; I know Grandpa will.

Long before I was a gleam in my



Photography by Terry Ballard

daddy's eye, my grandfather, Harold Rynearson, was quarrying stone, as his father had before him. Tufa is a very soft stone, composed of pressed volcanic ash, light, as rock goes and very porous. It is a beautiful white building material, cool in summer and warm in winter. There are lots of tufa deposits around the country, but only a few are tough enough to build with.

Harold, the last of his line, explains, "We, my dad and I, got out more rock than most people ever imagined could be got out of Arizona. I believe a man could probably make a good living today doing restoration. But I'm all stove up, hell, I'm sure

## Quarry Sap



(above) He walks quietly through his land.  
(right) Clutter and memorabilia surround his tufa home.

*He has worked at this quarry all his life.*



not gonna do it! Oh, people still come here for rock, but hell, I'm not able to work any more, not at that."

Seventy-four years have pulled and pushed Harold into a stooped, bent-necked posture. He sits forward in a chair with his legs apart, his hands dangling loosely between his legs. His neck is twisted forward, seldom does he lift his head. He walks slowly, between a shuffle and a slide. Harold never gets too excited. His enormous belly is one more weary burden.

All his life he has worked rock at the same quarry his father claimed in 1900. Cornelius "Neil" Ryneerson came to Kirkland after building the basement of the capitol in Phoenix. Pacific Quarry and Construction Company contracted with Neil to get rock for the dome. Tufa, a native rock, was the natural choice for the capitol.

"Nobody wanted to come up here but Dad. As I understand it, he decided to stay." Harold chuckles as his stubby, swollen fingers dig deep into the tobacco pouch for a fresh chew. "Since nineteen and fifty five, you can't file on stone claims, nor on sand and gravel. My dates went back to '37, that's how come I can still work my dad's claims."

"Dad bought this place from Sterns. It was the Sterns' patent but

who the hell the Sterns were, I don't know." His hand flexes resignedly outward. "Dad used up his homestead rights in Kansas. You know, you could only homestead once?"

A small tufa house still stands where Neil built it in 1906. Nearly sixty years later, Harold parked a trailer ten feet away and took up living there. The old tufa house became the living room when company overflowed the Airstream. Harold built his last house up in the mesquite



about seventy years ago.

There are only three fingers on his right hand, the result of an accident when he was sixteen. "We were running the Cave Creek quarry, about eight miles out of town, when a damn derrick cable gave way and cut my little finger off and ripped the finger next to it all to hell. We didn't believe in hospitals in those days, so I went to a doctor on the corner of Washington and Center in Phoenix. He finished cutting the one off even and pulled skin from it over the next one. I got a shot of something or other and went home. From what they say that doctor was the best, he sure had great business."

Laughing, Harold scratches a toe which he lifts out of plastic wing tips. He is not partial to socks, so mostly goes without. "I went back to the doc a few days later and he informed me his nurse was gone and I'd have to help him take a man's tonsils out. 'Hand me the instruments,' he said. Hell, I didn't know what instruments to take a man's tonsils out with anymore'n a man in the moon. We got them out all right. Nowadays people run to the hospital for a stubbed toe. Pooh."

Three beers into our conversation and Grandpa was finally building some steam. He talks slowly and alludes to things that are new to me. There were two major jobs Harold did for the state capital. In 1939, the year before his father died, stone was quarried for an addition to the original dome structure. Huge blocks were hewn from the Copper Basin

1939



*"It's a hard life.  
You're not gonna get rich."*

(above) One day he parked this one forever.  
(left) The interior of Harold's home.



of Tessoro Prop-  
is an enlightened  
ne. His attention to  
As architects, we

Pasada Plaza  
Sedona, AZ  
282-4702



he Rain  
Gutters

MPANY  
License  
#061681

ART OBJECTS  
TING ACCENTS

EDITORIAL  
NG COMPANY

rosas Plaza Mall  
on Springs Road  
tt, Arizona 86301  
22) 778-7631

## Quarry Sap

and trucked to Kirkland Junction to be shaped to building size. "Hell, the power line in those days only came to Kirkland and couldn't deliver enough juice to run the 40 horse engines for the saws. That's why we trucked to the junction. Skull Valley didn't even have a power line come in until '46 or '47."

In the early sixties, Harold contracted for the last time to get stone for the capitol. This time the House and Senate buildings were added. The years between capitol expansions were occupied by contracts to ship tons and tons of tufa block to housing contractors here and as far away as Los Angeles. Down in the Valley there are tufa tract houses south of Phoenix College, trim and quaint. Because tufa is a soft rock and easily shaped by hand, it is suprising to discover it actually hardens when exposed to air. There is moisture in tufa called quarry sap.

"It'll get awfully damn hard in ten years time," Harold said.

"One time old Frank Ehle, the old fart, and a couple of Skull Valley citizens were interviewed for Arizona Highways. Ehle said tufa would get as hard as granite. He liked to lie just a little bit. Oh, they enjoyed themselves a lot talking about tufa; nobody asked me about it."

"That way of life is gone now, there are no stonecutters around anymore, nobody knows how. Hell, nobody ever asked me about learning the trade, except one kid, but he couldn't stay sober long enough to figure out where he was. Pooh," he said, rubbing his forehead. He talks softly into his chest, "Cutting rock like we did is a lost art. Nowadays, it's good enough to just pick rocks up off the ground and lay them as they are, no shaping."

"After the war, stonecutters were scarce and they came to me to patch the granite arch on the First National Bank at Gurley and Cortez. I don't even remember what all I built." Harold crafted the Kirkland Post Office, a house that sits atop Yarnell Hill and a twelve-room mansion in Wickenburg that once was featured in a 1952 Los Angeles Times magazine.

"It was a hard life, you're not gonna get rich. The rock market for houses fluctuates, you know? Stone

46-47  
Skull Valley  
power

1960's House  
Senate  
Bldgs

Tract houses  
S. of Phoenix  
College

Encanto  
district

Quarry  
Sap

Kate Allison  
350 S. Bernice Dr.  
Chino Valley  
86323  
636-2474

goes back and forth in popularity and has been priced out of the market. I never made much money," whispers Harold, "mostly you were lucky if you just came out on it."

I never could figure out why there weren't more houses built with tufa in Kirkland, where it was so accessible.

"Nobody around here had the ambition or the money to build with tufa. All they had were their cattle. You got to have money and you have to want something better than the other guy. You can't compete with cheap houses, that's all they build anymore. The damn things only stand up long enough for the builder to get away from them. Tufa lasts forever."

In its heyday, the quarry never employed more than half dozen men. "I leased my mineral rights to an outfit to make floorsweep until they went broke. Six years ago I let Magic Mountain Mining Company come in and they crushed the tufa up for Ritzy Cat Kitty Litter. They shipped seventeen tons or more out of here every week. The kitty litter plant employed more men than the quarry ever did, they had sixteen men working around the clock." The kitty litter plant went belly-up this fall.


We sat down to a final round of beer and some of Uncle Ronnie's butter and cheese, while Harold described a couple of old quarry workers he saw a few years back in California.

"They were so stooped over they couldn't even walk." He stood, leaning forward slightly, emphasizing his own stoop. Thrusting his arms forward, he rocked back and forth on bare feet making the motion of stone cutting.


"I figured right then and there I never wanted to look like those sorry old bastards, so I haven't worked much lately. I suppose I could get a job here and there and make ten times as much as before but I can't, I won't. You know what I mean don't you? I don't want to, nobody gives a damn about stone, the hell with them anyway."

Kirkland hasn't changed for me these past 34 years, and Harold's life at the quarry hasn't either, except for the piles of sifting tufa powder Ritzy Cat left behind.


Kate Allison, a native of Arizona, is a freelance writer, adventurer who lives in the outback of Chino Valley.



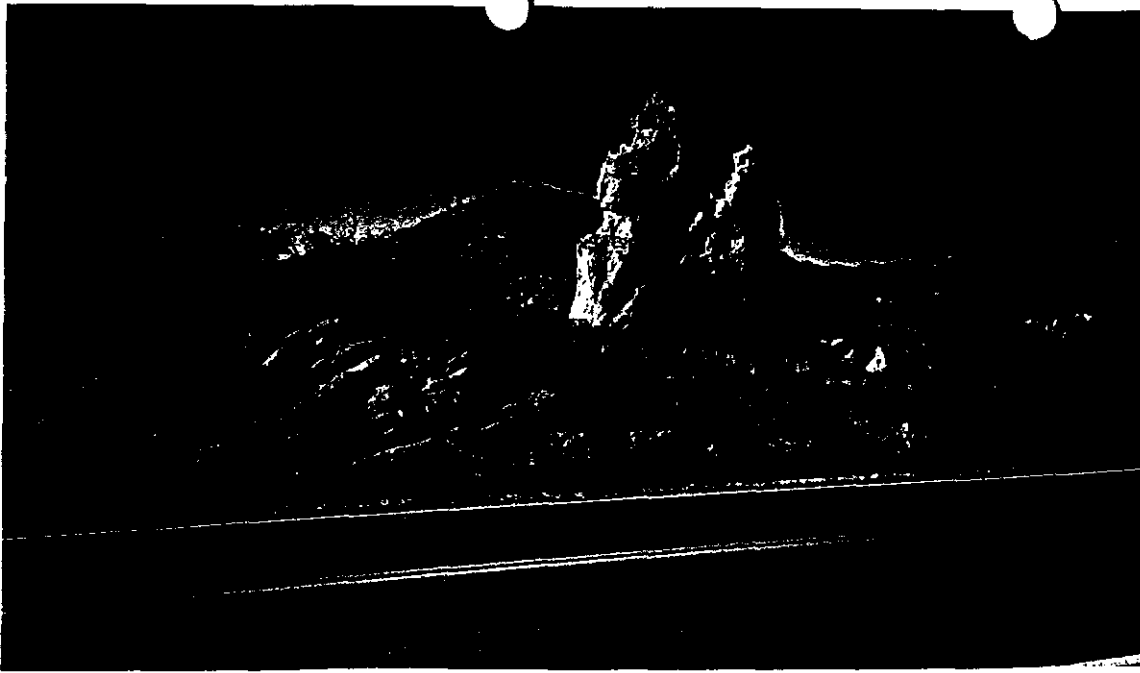
**Ritzy Cat  
Kitty Litter**  
was produced  
from the quarry  
in the early  
1980's – crushed  
washed, and sorted  
and then....



was stored in a large  
grain elevator. Some  
17 tons per week  
were shipped for  
awhile.....



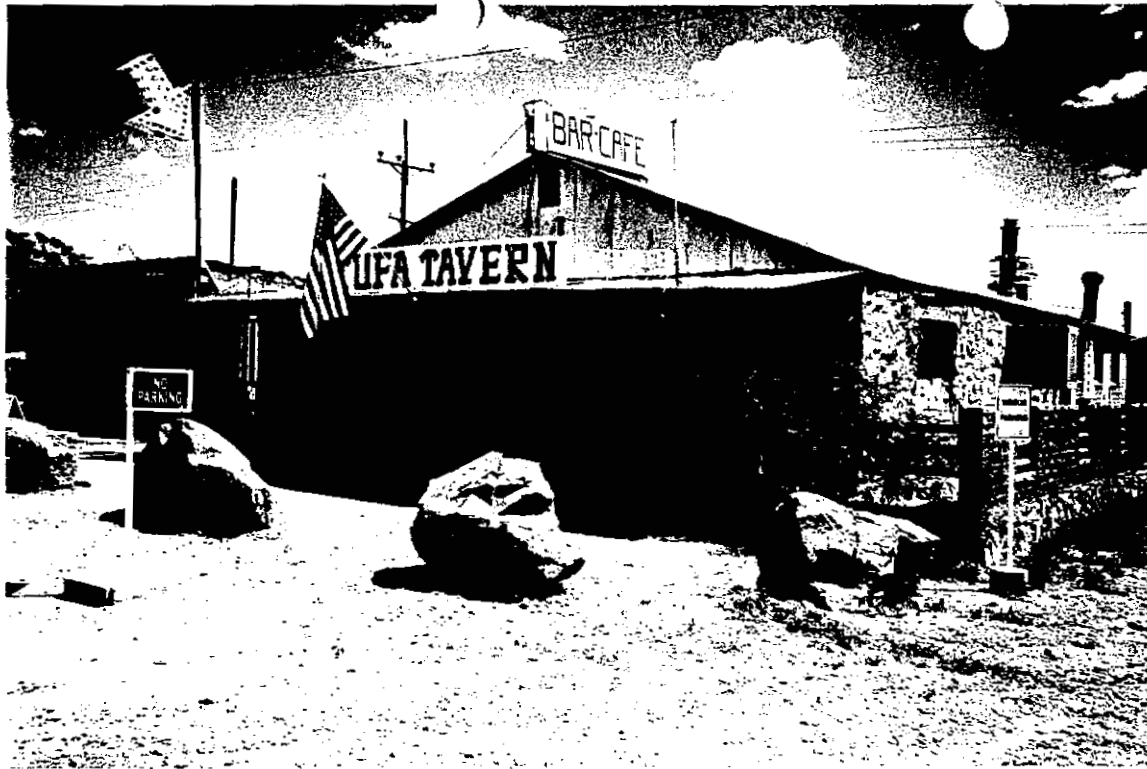
the residual material  
from the now-defunct  
operation remains....  
Some say the kittens  
didn't like it because  
it was too scratchy!



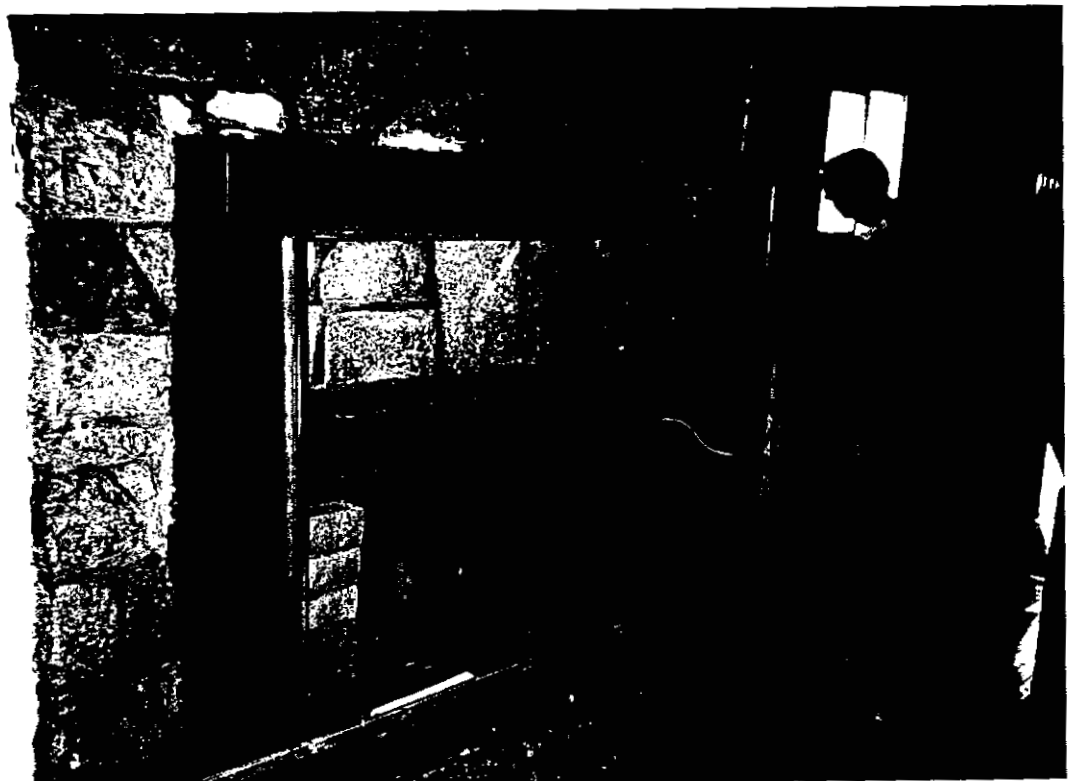
**Post Office Rock in Skull Valley near Kirkland, Arizona, was a prominent landmark for early travelers in the area. It consists of volcanic tuff and is adjacent to the quarry that extracted significant quantities of what has often, but erroneously, been called “tufa” stone. It was used to face the exterior of the State Capitol Building in Phoenix and on several buildings in Prescott.**



**Kate Allison, Granddaughter of Harold Ryneearson (a second-generation quarry operator and son of Cornelius Ryneearson), describes the “tufa” quarry operation to visitors. The quarry is now inactive, but could open again. It is the light brown stone on the State Capitol Building in Phoenix.**



**Tufa Tavern at Kirkland Junction is a well-known local watering hole. The exterior walls and natural stone on the massive interior fireplace was taken from the “tufa” mine at Kirkland. Geologically it is known as *volcanic tuff*.**



**Nyal Niemuth**

---

**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". (6/1/88)

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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 Morman Church currently owns the mine. He was doing a preliminary market study for the mine product.

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TUFA MINING CORPORATION

YAVAPAI COUNTY

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 propoerty and operation is the Kirkland Tuff Quarry, Yvapai 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 undet 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

Telephone conversa



## MAVERICK MINING

P. O. BOX 70  
KIRKLAND, ARIZONA 86332

YAVAPAI CO.

Maverick Mining Co

Magic Mountain Mi

president and Larry Strauss is Vice

representative in Kirkland is Mr. D

house.

Gene De Shores

MINING Co

442-3494

Tuff Quarries to

Vincent Duff is

President and Sales Manager. Their

ve Fish with offices in their Kirkland Ware-

Mr. E.A. Unzicker will do the mini

is one of the former owners and par

Production is expected at 2,000 tons

g, crushing and bagging. He apparently

icipants with a Mr. Gene De Shores.

per month.

Kirkland Telephone (Mr. Unzicker)

442-3257 (386. 37)

JHJ/ap

KP/WR 1/21/80 - The Maverick Mine

orders. The tuff processed for use a

rain water or becomes too wet for pr

protecting a few months supply of cru

is awaiting dryer weather to continue filling

oil sweep and kitty litter easily absorbs

processing. Building a covered pad capable of

ade material from rain might prove valuable.

RRB WR 11/13/81: Joe Kerwin of Magic

their old leased equipment with their ov

production by the end of the year. He

to stop by whenever we're in the vicini

tn. Mining reports that they are replacing

n new equipment and should be back in

x tented an open invitation to the Department

y.

NJN WR 12/18/81: Bill Hargrove of the

to know what material the Tufa Corp. -

to determine the shipping rate to charg

anta Fe Railroad called. He needed

ba Magic Mountain Mining was producing

them.

RRB WR 3/12/82: Visited with Joe Kirwin

Mountain Mining Company near Kirkland.

replace leased equipment but were down b

plant at the time of my visit.

at the Tufa Corporation dba Magic

hey have purchased equipment to

cause of a bad bearing in the screening

### 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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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. Ryneearson 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. Ryneearson ~~knew~~ of no clay deposits but gave directions to a Mr. Jones in Hillside.  
GW WR 9-29-73

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RYNEARSON TUFF QUARRIES

YAVAPAI COUNTY

Visited Capitol Quarries  $2\frac{1}{2}$  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  $3\frac{5}{8}$ " 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

---

Went to Kirkland where Mr. Ryneearson 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. Ryneearson 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. Oregan Avenue  
Phoenix, Arizona

Date: March 25, 1958

Lab. No.: P-60131

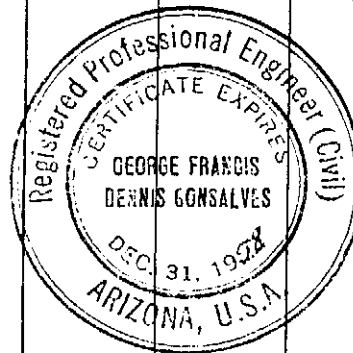
Received: 3-20-58

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

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~~ HOPEFUL

TO SUPPLY THE PRIMARY BUILDING MATERIAL.

BUILDING TO BE LOCATED NEAR NOW

SENATE WITH CAPITAL.

March 19, 1986

Christopher A. Dilley  
396 Coleman Dr. SE  
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.

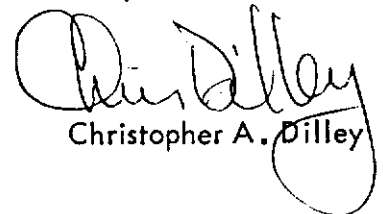
The museum there is really lovely. I plan to see it again when I return to Arizona. I am sure the map and active mines list will be a big help during my job search.

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.

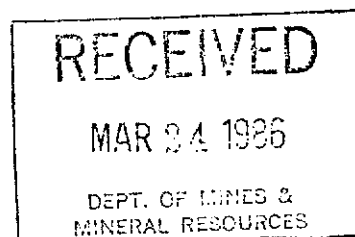
Can you help me obtain some info? I would appreciate it. They say they are going to hire and expect to be operational by May 15.

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

Best,

  
Christopher A. Dilley

*Jim [unclear]*



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.