CONTACT INFORMATION
Mining Records Curator
Arizona Geological Survey
1520 West Adams St.
Phoenix, AZ 85007
602-771-1601
http://www.azgs.az.gov
inquiries@azgs.az.gov

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

ACCESS STATEMENT

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

CONSTRAINTS STATEMENT

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

QUALITY STATEMENT

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

08/01/90

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: RED ROCK URANIUM CLAIMS

ALTERNATE NAMES:
COTTONWOOD
HORSESHOE GROUP

MARICOPA COUNTY MILS NUMBER: 646

LOCATION: TOWNSHIP 8 N RANGE 6 E SECTION 32 QUARTER SE
LATITUDE: N 33DEG 59MIN 17SEC LONGITUDE: W 111DEG 45MIN 13SEC
TOPO MAP NAME: HUMBOLDT MTN - 7.5 MIN

CURRENT STATUS: RAW PROSPECT

COMMODITY:
URANIUM
GOLD LODE

BIBLIOGRAPHY:
ADMMR RED ROCK URANIUM CLAIMS FILE

RED ROCK URANIUM CLAIMS References MARICOPA COUNTY

Radioactive Occurrences and Uranium Production in AZ State of AZ Bureau of Geology and Mineral Technology 1981 p. 198

MILS Sheet sequence number 0040130506

7N, 6E

MELVIN H. JONES
Mining Geologist
~~Box 1, Montello, Nevada 89830~~

23 Dec.,1974.

RECONNAISSANCE GEOLOGICAL SURVEY OF THE RED ROCK URANIUM CLAIMS. HORSESHOE DAM AREA, TONTO FOREST, MARICOPA COUNTY, ARIZONA.

In conformance withe the recommendations of Mr. Daniel C. Jacobs (Congess,Arizona) and Mr. John Allyn (Wickenburg,Arizona), the undersigned on 22nd October, 1974, examined the Red Rock mining claims (2) located on Lime creek, about 2.2 miles West of the Horseshoe Dam, Tonto National Forest, Maricopa County, Arizona. See exhibits A and B.

, Msgrs. Elmer Young, Wayne Young, Earl Johnson, all of Mesa, Arizona and Daniel Jacobs,were present during this investigation. The mentioned Youngs and Johnson, and a Mr. James Yancy are understood to be the owners of the claims. I am told that these claims were formerly known as the Cottonwood Mine. Captain Elmer Young (Mesa Police Department) tells me that the mine shipped uranium ore in the past and was under lease to the Sun Oil Company of Texas. Research by the writer, reveals that this property was visited by Mr. R.L.Robison of the AEC in 1955 and a select sample gave an estimated .52% U_3O_8 and a chip cut gave a .14% U_3O_8. See exhibit C. Other references make these claims part of the "Horseshoe group of claims".

GEOLOGY CONSIDERATIONS. Humboldt Mountain, where the claims are located, is basically a redish pre-Cambrian pluton granite, and is an intrusive dating from the Mazatzal revolution. The apparent weak uraniferous vein is in what has the appearance of a normal type fault in the mazatzal granite. In Arizona, most metallics are assumed to have been deposited during the Larimide, and this could include the uranium at the studied claims.

An adit on the claims, which was examined at the portal area, has a length of 100 ft (I was told) and has several drifts and stopes. The portal is on Lime creek, and someone in the past has built a small cement dam at the collar to collect the water from a stream coming out of the adit. Due to this water (and not having rubber boots and good lights along) the adit was not explored. This adit goes in on the vein that strikes North 4 Deg. West, and dips about 60 deg. East. From the portal, Humboldt mountain terrain goes up rather steeply to the Southwest. On this surface, the mentioned vein can be traced for only about 100 ft., and above this, the vein is concealed by rock debris. On the other side of Lime Creek (from the portal), to the North, a continuation of the mentioned vein was not seen (but further exploration might reveal it). Lime creek, itself, is on a fault line and there is much talus to the North.

The width of the observed parts of the vein is from 3.5 ft. to 5 ft. The vein material is a gouge like solidified clay with iron oxides contained therein giving it the brownish color. Portions of the vein have parallel bandings of solid fragments containing quartz stringers. See exhibit D from Arizona Bureau of Mines information on this material. This vein material is apparently of Hypergenetic origin formed from debris filling the fault opening, decending waters carrying some mineralization, and metamorphic grinding action from the granitic sides of the fault, all of this adding up to metasomatism.

From an inconclusive megascopic examination of the radioactive material, which are sporatic dark colored microscopic chrystals, the writer is of the opinion that it is Uraninite (uranium oxide). Uraninite is the chrystalline form of pitchblend (massive). It will be noted that the Arizona Bureau of Mines

could not readily identify this (See Exhibit D). Further, the undersigned finds that the uranium is not in equalibrium (See remarks on Exhibit F).

From a search of the records covering the general area of the Red Rock claims, it was found there are other uranium prospects which were located during the early uranium prospecting days. None of these prospects were visited by the writer. The prospects are the "Los Cuatros group, located in the SE ¼, T2S,R3E; the Lucky Find group, Sec.6, T7N,R6E; Manley Bickle group Sec.12,T6N,R5E; Copper Kid group, Sec. 10,T6N, R4E.

Samples were taken from the Red Rock Claims from the vein material at the Portal, then in the adit about 10 ft. from the portal, and about 100 feet up the surface of the mountain from the portal, where the same vein outcrops. The sampling will be discussed in detail under CONCLUSIONS, infra.

The undersigned would like to mention the unreliability of some assay offices, and the need to have several assay laboratories check samples before sampleconclusions are reached. Assay Exhibit E is a case in point; the high uramium value is erroneous. The apparent correct assay is on Exhibit F. Both samples sent to these assay firms came out of the same sample bag. Exhibt F assay report was further confirmed by initial Geiger Counter tests. Sample material #1 Red Rock and M-1555 gave 600 cpm; Sample material #2 Red Rock and M-1556 gave 400 cpm. These radiometric tests would put the uranium values in hundreds of one percent. That the Radiometric Assay was on the low side, is further confirmed by spectrographic analysis Exhibit G.

F

Of special interest is Assay report Exhibit H covering gold and silver. Sample marked "cottonwood" represents a composite sample from the Red Rock claims. This sample was sent in for assay on a speculative basis by the writer and the results are surprising.

CONCLUSIONS.

Sampling was accomplished as follows:

Location of sample	Geiger cpm	U_3O_8 content
Channel chip cut on 4 ft. vein at adit portal.	650	Composite --- .011 %
Channel chip cut on 4 ft. vein 10 ft. in adit fr portal.	500	
Vein outcrop up mountain 100 ft. above portal.	400	.024 %

Composite sample of above	Au (oz)	Ag(oz)
	2.00	1.00

Now, as mentioned elsewhere in this report, the property was not completely explored, and in particular, the so called drifts and stopes in the adit. In the report of Robison (Exhibit C) he mentions .14% and .52% U_3O_8 - - - perhaps there is a better grade of ore in the depths of the adit which was not examined by the undersigned ? This is a possibility, but I am doubtful on this.

It is to be pointed out that the samples taken by the writer do not disclose a commercial quality of uranium ore based on current prices. However, the gold content ($356.00 per ton at present prices) is economically recoverable at a profit. However this gold content should be verified by the systematic taking of many samples. The one sample is a long way from being conclusive.

Another matter for serious consideration is that the Red

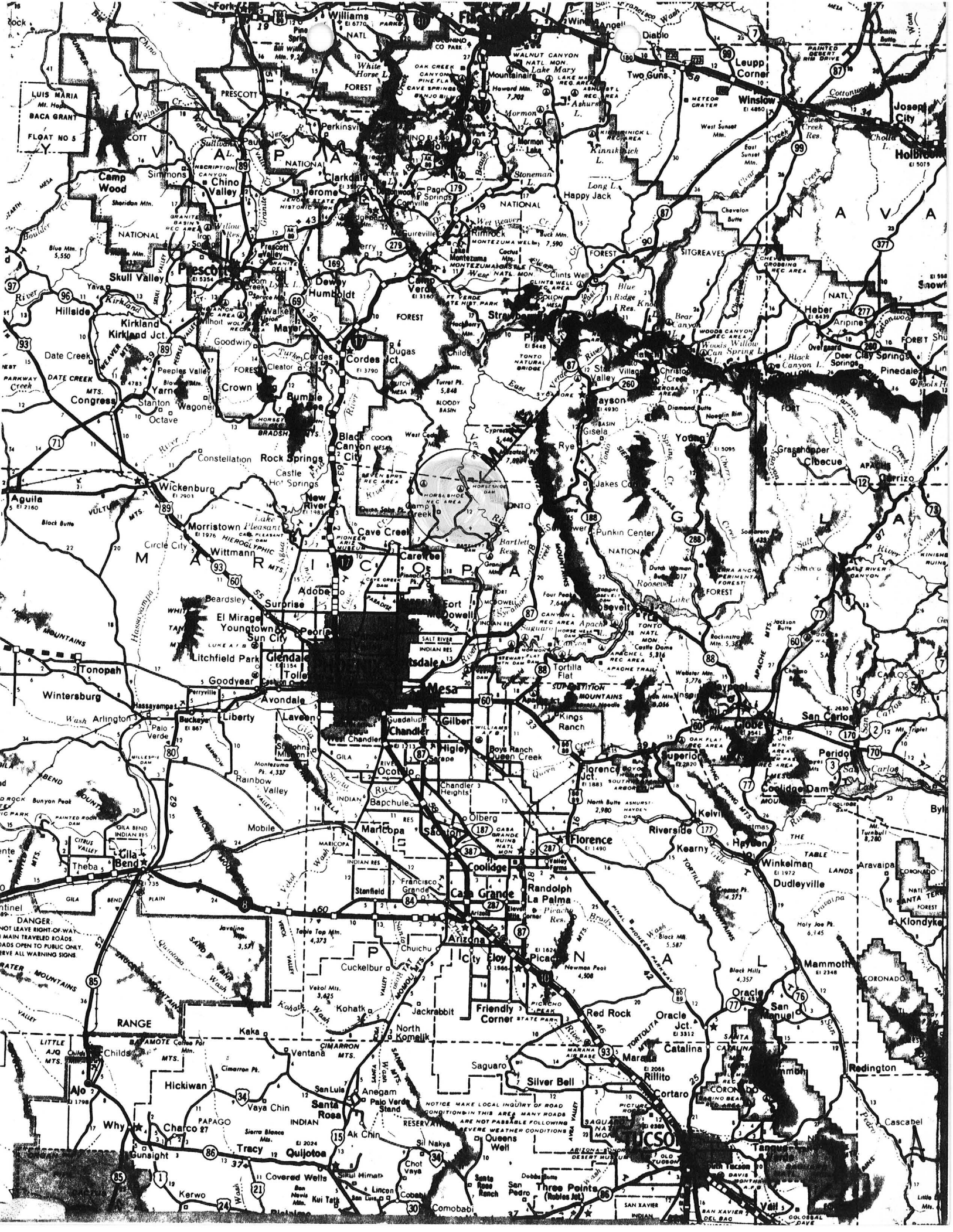
Rock mining claims (unpatented) are within a 2 mile radius of the high level markings of Horseshoe Dam. Horseshoe Dam is understood the be under the control of the U.S. Department of Interior. Then again, the claims (and the Dam) are in the Tonto National Forest, which is under the U.S. Forest Service, Dept. of Agriculture. The latter has some rather stringent difficult mining regulations. Thusly, before any active mining is undertaken, these agencies should be consulted.

RECOMENDATION.

The Red Rock mining claims merit additional exploration and sampling, in particular in connection with the gold possibilities.

MELVIN H JONES
Mining Geologist

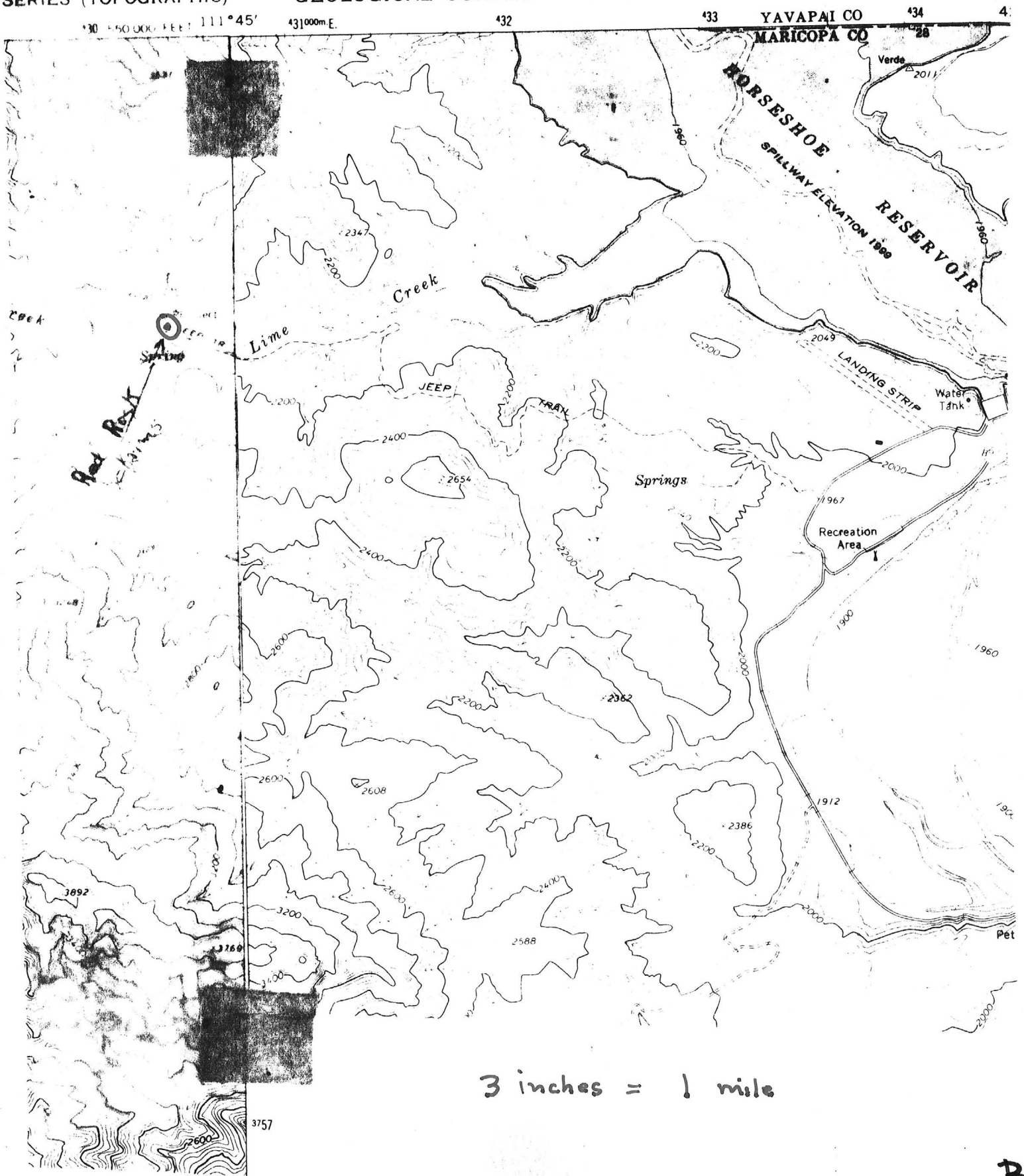
Box 406
Wickenburg, Arizona
85358.


Williams
Flagstaff
Winslow
Leupp Corner
Two Guns
Diablo
Angell
Mountainair
Lake Mary
Winslow
Joseph City
Holbrook
Camp Wood
Chino Valley
Prescott
Perkinsville
Clarkdale
Jerome
Cottonwood
Page Springs
Cornville
Rimrock
Happy Jack
Skull Valley
Prescott
Dewey
Humboldt
Camp Verde
Clints Well
Sitgreaves
Heber
Hillside
Kirkland
Kirkland Jct.
Mayer
Cordes
Cordes Jct.
Bugas Jct.
Strawberry
Pine
Star Valley
Christopher Creek
Payson
Date Creek
Peeples Valley
Yarnell
Congress
Stanton
Wagoner
Octave
Crown King
Bumble Bee
Black Canyon City
Rock Springs
Constellation
Castle Hot Springs
Wickenburg
Aguila
Morristown
Wittmann
Circle City
New River
Cave Creek
Carefree
Camp Creek
Gisela
Rye
Young
Grasshopper
Cibecue
Punkin Center
Jakes Corner
Adobe
Surprise
Beardsley
El Mirage
Youngtown
Sun City
Peoria
Fort McDowell
Roosevelt
Litchfield Park
Glendale
Tolleson
Tonopah
Wintersburg
Goodyear
Avondale
Mesa
Tortilla Flat
Superstition Mountains
Kings Ranch
Globe
San Carlos
Hassayampa
Buckeye
Liberty
Laveen
Guadalupe
Gilbert
Chandler
Higley
Boys Ranch
Queen Creek
Superior
Peridot
Arlington
Palo Verde
Rainbow Valley
Ocotillo
Chandler Heights
Florence Jct.
Coolidge Dam
Bapchule
Olberg
Mobile
Maricopa
Sacaton
Florence
Riverside
Kelvin
Hayden
Winkelman
Kearny
Gila Bend
Theba
Coolidge
Casa Grande
Randolph
La Palma
Stanfield
Francisco Grande
Dudleyville
Aravaipa
Klondyke
Arizona
Picacho
Eloy
Cuckelburr
Chuichu
Mammoth
Oracle
San Manuel
Kohatk
Jackrabbit
Friendly Corner
Red Rock
Oracle Jct.
Kaka
North Komelik
Ventana
Catalina
Marana
Saguaro
Silver Bell
Rillito
Cortaro
Redington
Ajo
Hickiwan
Vaya Chin
San Luis
Anegam
Santa Rosa
Palo Verde Stand
Why
Charco 27
Ak Chin
Sil Nakya
Queens Well
Tucson
Cascabel
Gunsight
Tracy
Quijotoa
Chot Vaya
Covered Wells
Kerwo
Lincon
Cobabi
Comobabi
Three Points
San Pedro
Vail
Tanque Verde
Sabino Canyon
Rincon
Pantano
Colossal Cave
Little Mts.
Aravaipa
Pinal Pioneer Parkway
Tortilla Mts.
Superstition Mountains
Mazatzal Mts.
Sierra Ancha Mts.
Apache Trail
Tonto National Monument
Roosevelt Lake
Salt River Indian Res
Gila River Indian Res
Pima Indian Res
Papago Indian Reservation
Tohono O'odham Indian Res
Sierra Blanca Mts.
Cimarron Mts.
Santa Rosa Mts.
Ajo Mts.
Little Ajo Mts.
Baboquivari Mts.
Sierra Estrella
Superstition Mountains
Mazatzal Mts.
Sierra Ancha Mts.
Tortilla Mts.
Pinal Mts.
Galiuro Mts.
Santa Catalina Mts.
Rincon Mts.
Tucson Mts.

N

MTN. QUADRANGLE
IA-MARICOPA CO.
SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



3 inches = 1 mile

B

FILE A-P-341

PRELIMINARY RECONNAISSANCE REPORT

EXAMINED BY R. L. Robison

DATE(S) EXAMINED 5/11/55

2. STATE Arizona COUNTY Maricopa

DISTRICT Mayanine

NEAREST TOWN Cave Creek

PROPERTY Cottonwood Claims

1. SAMPLES

NUMBER	TYPE AND WIDTH	RADIOACTIVITY eU_3O_8
A-3651-X	Horizontal chip across brow @ 4' - 2.5' wide	0.14
A-3651-Y	Select from brow	0.52

LOCATION: Unsurveyed
SEC. ___ T ___ R ___

3. TYPE OF EXAMINATION:

Surface Radiometric

4. DIRECTIONS TO DEPOSIT: From Horseshoe Dam take the Up River Road for 1.1 mi., then turn L up Lime Creek and proceed 1.9 mi. to property.

5. OWNER OR OPERATOR: Earl Johnson, 503 North Alma School Road, Mesa, Arizona
ADDRESS: Elmer Young, 242 West 9th Street, Mesa, Arizona

6. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: One 4' drift in canyon wall.

7. RADIOACTIVITY: B.G. 0.02 MR/hr.
Max. 1.70 MR/hr.

8. DESCRIPTION OF DEPOSIT (*Discuss under: A. Topography, B. Geology, C. Mineralogy*)

A. Steep walled canyon in very rough mountainous terrain.

B. NE-SW trending near vertical fault through granite. Mineralization is in gouge material which averages 1.5' wide.

C. No uranium mineral visible. Mineralization associated with iron oxide.

[redacted]

11. PROOF OF OWNERSHIP RECEIVED? No
PERMISSION TO PUBLISH RECEIVED? No

12. MAP:

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

None

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW? Yes

[redacted]

28

C

THE UNIVERSITY OF ARIZONA
TUCSON, ARIZONA 85721

ARIZONA BUREAU OF MINES

November 6, 1974

Sample No. 55078

A. M. Jones
Box 406
Wickenburg, Arizona 85358

Dear Mr. Jones:

The sample submitted to the Arizona Bureau of Mines for examination is a fine-grained variety of rock composed of clay minerals, chlorite (hydrous magnesium-iron-aluminum silicate), feldspar, limonite (hydrous iron oxide), calcite (calcium carbonate), hematite (iron oxide), and quartz. The sample is slightly radioactive but because of the disseminated nature of the radioactive mineral or minerals along with the low mineral content, the radioactive source material could not be identified with the methods offered by our free service.

I sincerely hope this information has been helpful to you.

Very truly yours,

Robert T. O'Haire

Robert T. O'Haire
Associate Mineralogist

RTO:jg

D

Certificate of Analysis

LITE RESEARCH LABORATORIES

P.O. Box 119 Fort Duchesne, Utah 84026 (801) 722-2254

DATE: December 17, 1974

CLIENT: M. H. Jones
P.O. Box 406
Wickenburg, Arizona

SAMPLE NUMBER: M-1555, M-1556

DATE RECEIVED: 11-1-74

SUBMITTED BY: M. H. Jones

SAMPLES ANALYZED FOR: Uranium

RESULTS:	M-1555	M-1556
URANIUM -	0.48%	0.64%

REMARKS:

BY _____

E

UTE RESEARCH LABORATORIES
40 North 400 West
Salt Lake City, Utah 84103
(801) 359-3252

P.O. Box 119
Fort Duchesne, Utah 84026
(801) 722-2254

December 17, 1974

Mr. M. H. Jones
P.O. Box 406
Wickenburg, Arizona

Dear Mr. Jones:

Please accept our apologies for the delay in returning your Certificate of Analysis for your samples sent to us on November 1, 1974. We appreciate your patience in this matter and hope we will be able to be of further service to you.

Sincerely,

UTE RESEARCH LABORATORIES

by Margaret Roberts
Margaret Roberts, Secretary

OUR MOTTO: — WHAT THERE IS IN IT, NO MORE NO LESS.

EDMUND E. PHILLIPS, Vice-Pres.—Gen. Mgr.

M. E. PHILLIPS, Secretary

THE COLORADO ASSAYING COMPANY

(INCORPORATED)

ASSAYERS AND CHEMISTS

303—623-2842 2244 BROADWAY

DENVER, COLORADO 80201 Dec. 20, 1974

REPORT ON DETERMINATIONS MADE FOR —

Mr. Melvin H. Jones
Box #406
Wickenburg, Arizona 85358

SAMPLE MARKS	METALS	Amount per Ton Ozs.	Amount per Ton Hds.	PER CENT	Value per Ton Dollars	Value per Ton Cents
#1 Red Rock	Uranium Oxide (U_3O_8)			0.011%		
#2 Red Rock	Uranium Oxide			0.024%		

Note: Sample #1 is more radioactive than the #2 sample. #1 may have been subjected to leaching action on the uranium content, that was originally present.

THE COLORADO ASSAYING COMPANY

GOLD AT_____PER OUNCE SILVER AT_____PER OUNCE

LEAD AT_____PER UNIT COPPER AT_____PER UNIT

By Ed Phillips

F

Reed Engineering

1140 North Lemon Street, Orange, Calif. 92667 - Phone 714-538-2776 (24 hours)

+

Mr. Melvin Jones
Box 406
Wickenburg, Az 85358

+

Date: NOV 5 - 1974

Sample No: Ore

Film No: 05

SPECTROGRAPHIC ANALYSIS - QUALITATIVE

	Percent	Lbs. per ton
Aluminum	9.0	180
Antimony**		
Barium	.9	18
Beryllium		
Bismuth		
Cadmium		
Calcium	13.0	260
Cesium		
Chromium	.5	10
Cobalt		
Columbium		
Copper	.01	.2
Fluorine		
Gallium		
Germanium**		
Gold*		
Hafnium		
Indium		
Iridium*		
Iron	5.5	110
Lead	.5	10
Lithium		
Magnesium	6.5	130
Manganese	3.2	64
Mercury		
Molybdenum	.004	.08
Nickel		
Osmium**		
Palladium*		
Platinum*		
Potassium	4.6	92
Rhodium*		
Rubidium*		
Ruthenium*		
Silver		
Sodium	1.3	26
Strontium	.02	.4
Tantalum		
Thallium		
Thorium*		
Tin		
Titanium	1.2	24

RARE EARTH ELEMENTS : none

	Percent
Cerium	
Dysprosium	
Erbium	
Europium	
Gadolinium	
Holmium	
Lanthanium	
Lutetium	
Neodymium	
Praseodymium	
Samarium	
Terbium	
Thulium	
Ytterbium	
Yttrium	

RADIOMETRIC ASSAY

(e) Uranium Oxide 0.0 Percent

Silicon, gases 53.7 Percent

ADDITIONAL TESTS RECOMMENDED

FLUORESCENCE

Short wave UV
Long wave UV

Notes:

*Elements not detectable below .05%
**Elements not detectable below .5%
Percentages are computed estimates based on film densities and are relative, not exact.

G

D. R. Curry, Assayer
14437 Rios Canyon Road
El Cajon, Calif. 92021
(714) 443-1754

ASSAY CERTIFICATE

El Cajon, Calif., 11-7 1974

I hereby Certify that the samples described below, received from Melvin Jones assay as follows:

OWNER'S MARK AND SAMPLE	GOLD Ozs. Per Ton	GOLD Value Per Ton	SILVER Ozs. Per Ton	SILVER Value Per Ton	TOTAL VALUE PER TON	PERCENTAGE OF Copper	Lead	Zinc
Y.M. Sample	12 88	2292 64	10 12	50 60	2343 24			
Hogan	2 52	448 56	3 48	17 40	465 96			
Cottonwood	2 00	356 00	1 00	5 00	361 00			
I am sending a copy of the two top assays to Charles Hallman.								

GOLD at $ 178.00 per oz.
SILVER at $ 5.00 per oz.
LEAD at c
COPPER at c

Charges 5.00 Paid

D. R. Curry
Assayer

H

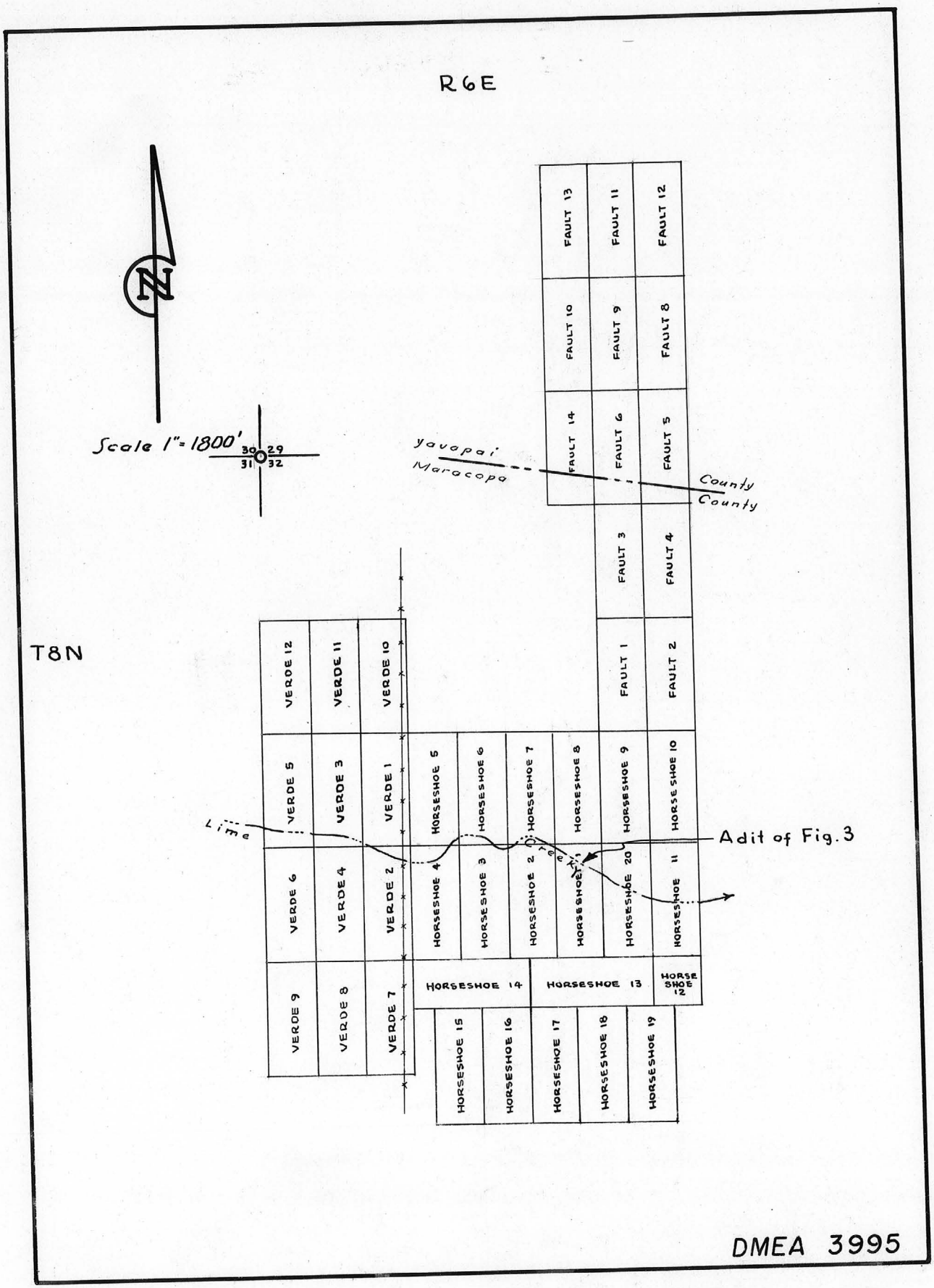


FIG.-2-CLAIM MAP, JACK R POLLARD & ROBERT H RAY

MARICOPA & YAVAPAI COUNTIES, ARIZONA

URANIUM DWR 29

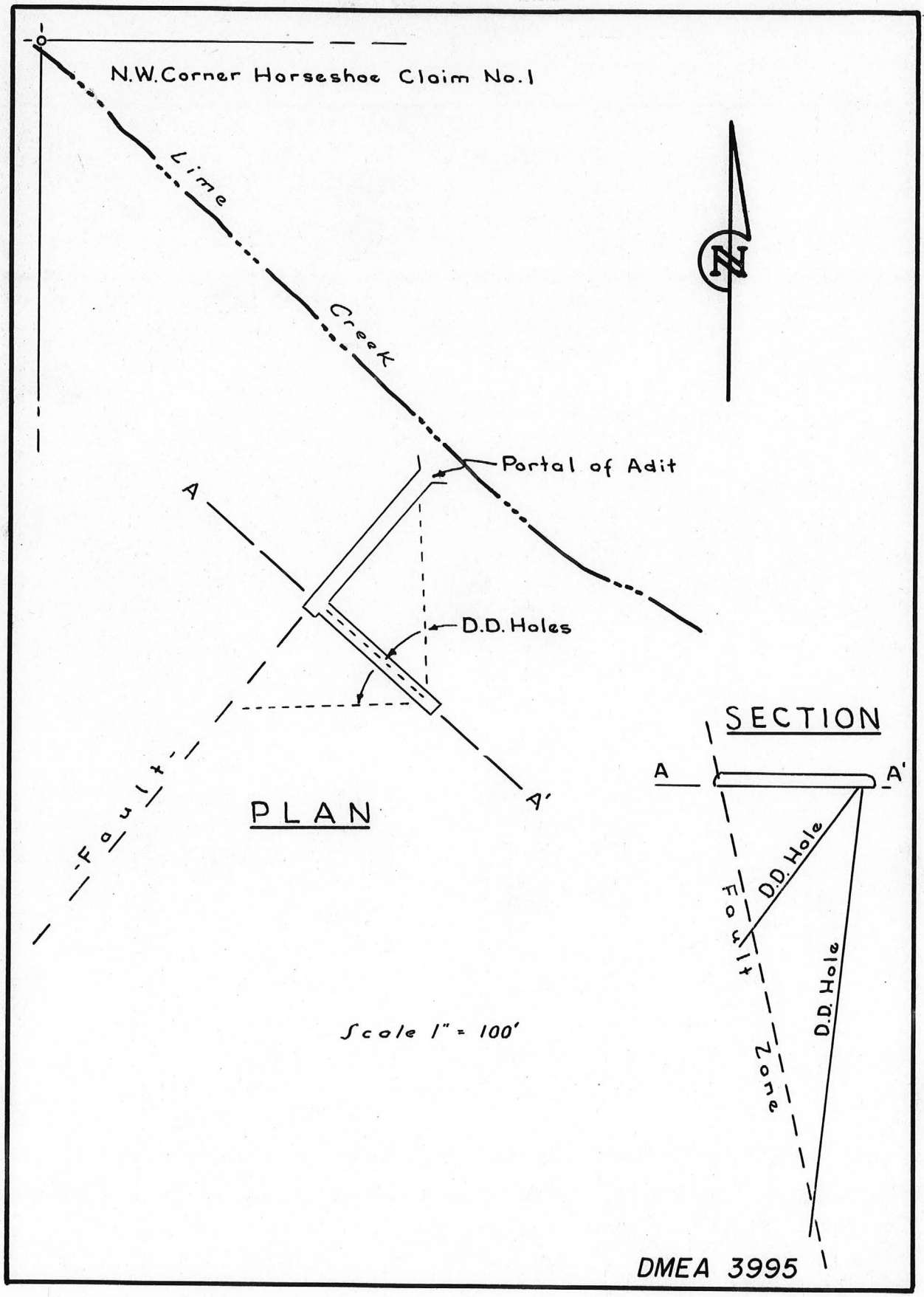


FIG. - 3 - PROPOSED EXPLORATIONS, POLLARD AND RAY

MARICOPA & YAVAPAI COUNTIES, ARIZONA

URANIUM DWR 29

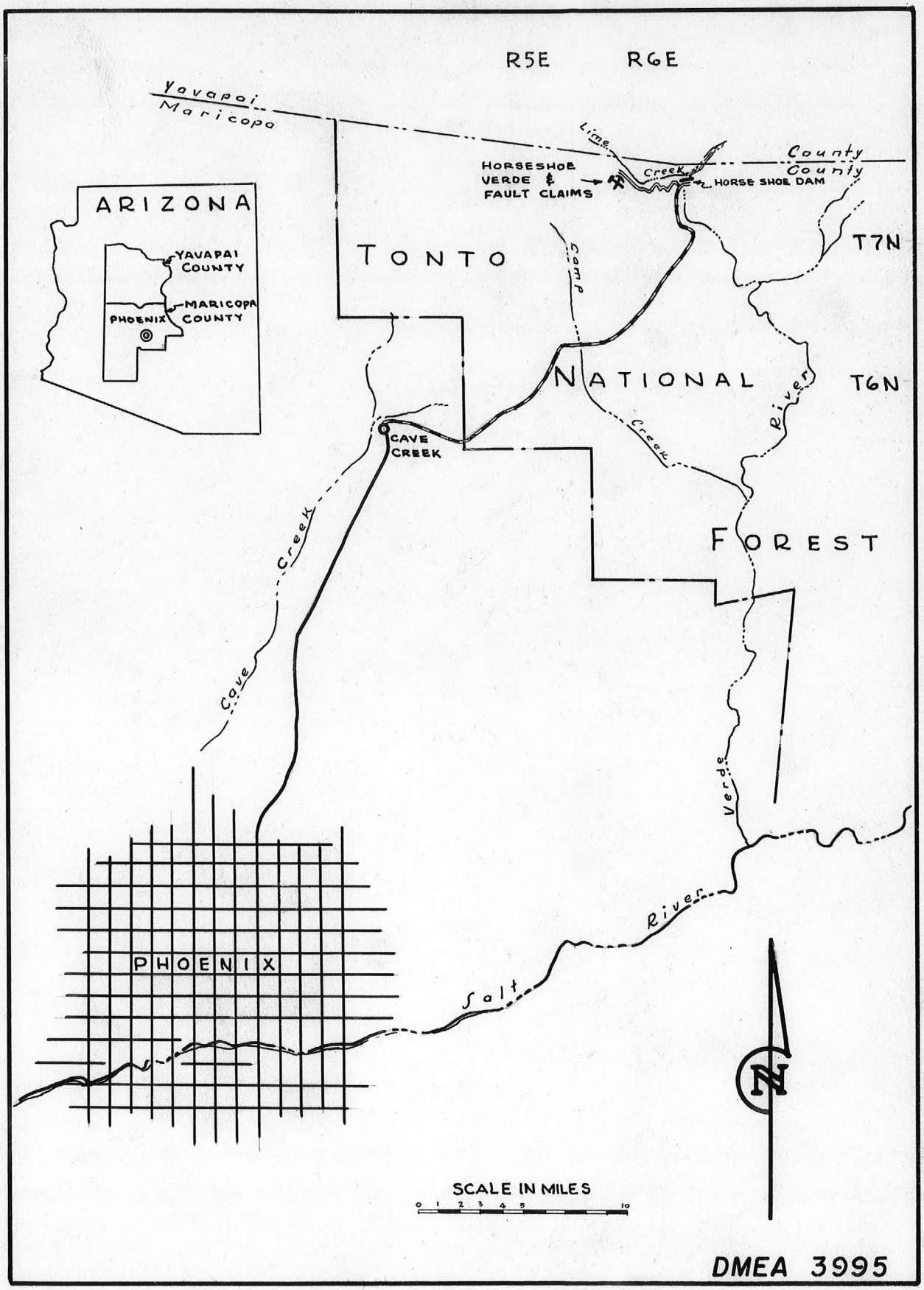


FIG. - I - LOCATION MAP, JACK R. POLLARD & ROBERT H. RAY
MARICOPA & YAVAPAI COUNTIES, ARIZONA

URANIUM DWR 29