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06/23/89

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: SKY DEPOSIT

ALTERNATE NAMES:

FRAN
ZORA
PEANUTS
DESERT QUEEN
INTERSTATE

GILA COUNTY MILS NUMBER: 48

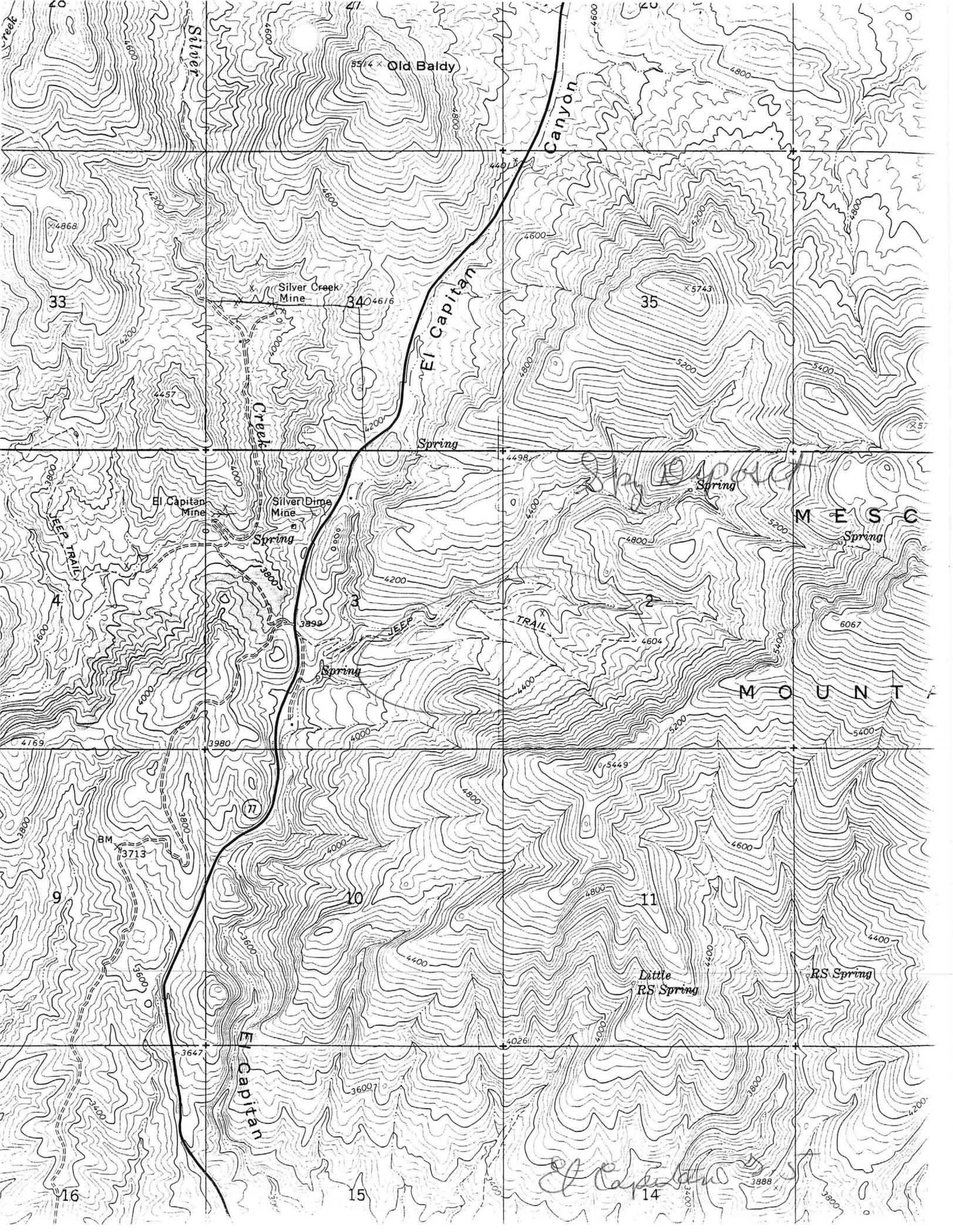
LOCATION: TOWNSHIP 3 S RANGE 15 E SECTION 2 QUARTER W2
LATITUDE: N 33DEG 12MIN 01SEC LONGITUDE: W 110DEG 47MIN 21SEC
TOPO MAP NAME: EL CAPITAN MTN - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
URANIUM

BIBLIOGRAPHY:

ADMMR SKY DEPOSIT FILE
USAEC PRELIM RECONN REPT 172-480 P 72-73
GRANGER & RAUP GEO U DEP DRIPPING SPRING
QUARTZITE GILA CO,AZ USGS PP 595 PP 2-3
SUPP USGS PP 595 PP 118-120
GRANGER & RAUP U DEP DRIPPING SPRING QUARTZITE
GILA CO,AZ USGS BULL 1046-P 1959 P 473
USBM DOCKET NO. DMEA-3932



5514 x Old Baldy

Silver Creek Mine

El Capitan Mine

Silver Dime Mine

Little RS Spring

RS Spring

MESC

MOUNTAIN

El Capitan

33

34

35

4

7

10

11

16

15

14

4868

5743

4457

4769

3713

36007

5449

6067

4400

3888

757

4498

40261

3647

4027

4200

3900

3100

4401

4600

4800

5000

5200

5400

5600

5800

6000

6200

6400

6600

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7400

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8200

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40800

41000

41200

41400

41600

41800

42000

42200

42400

42600

42800

43000

43200

43400

43600

43800

44000

44200

44400

44600

44800

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46400

46600

46800

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47200

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48800

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49200

49400

49600

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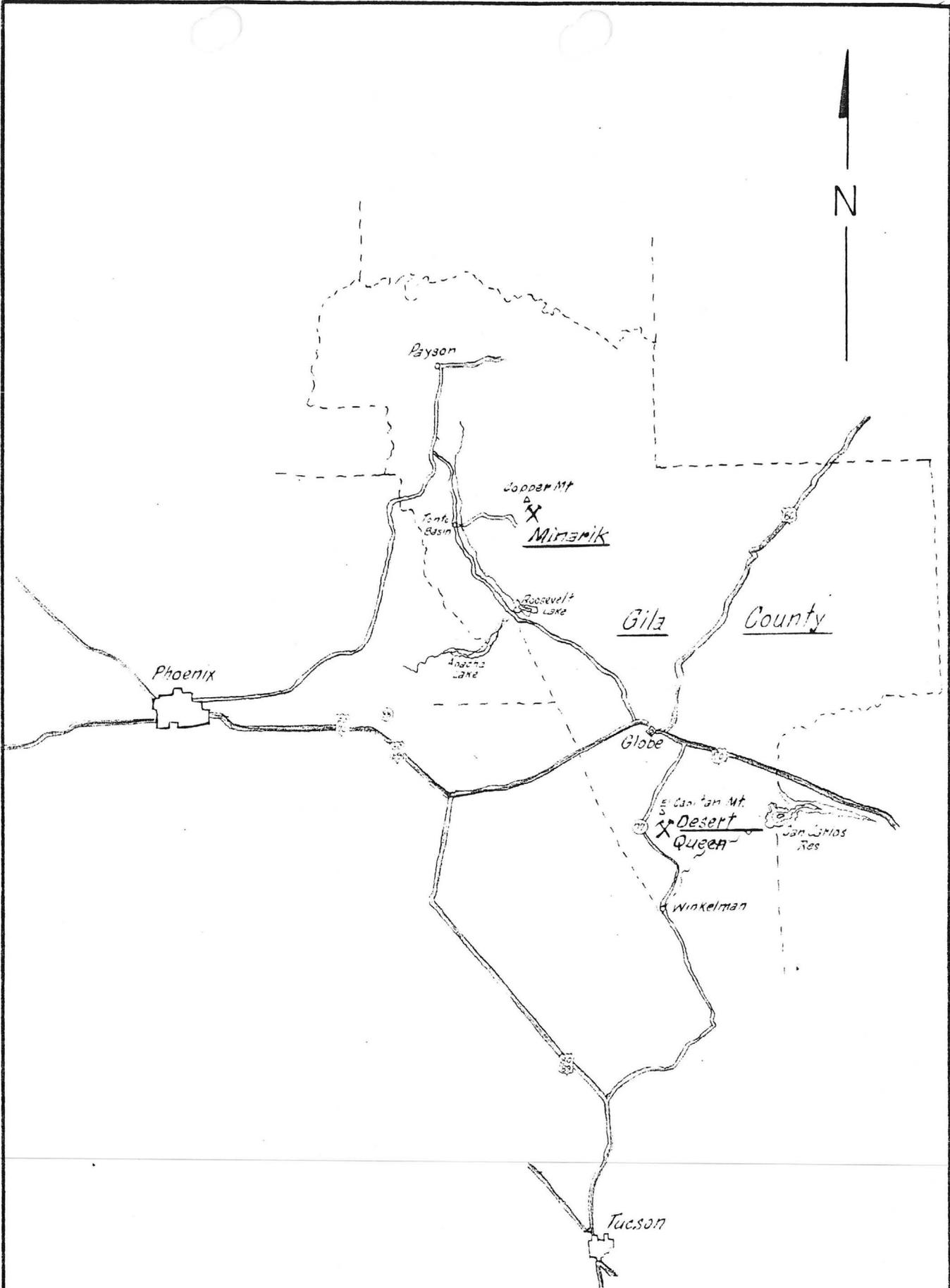
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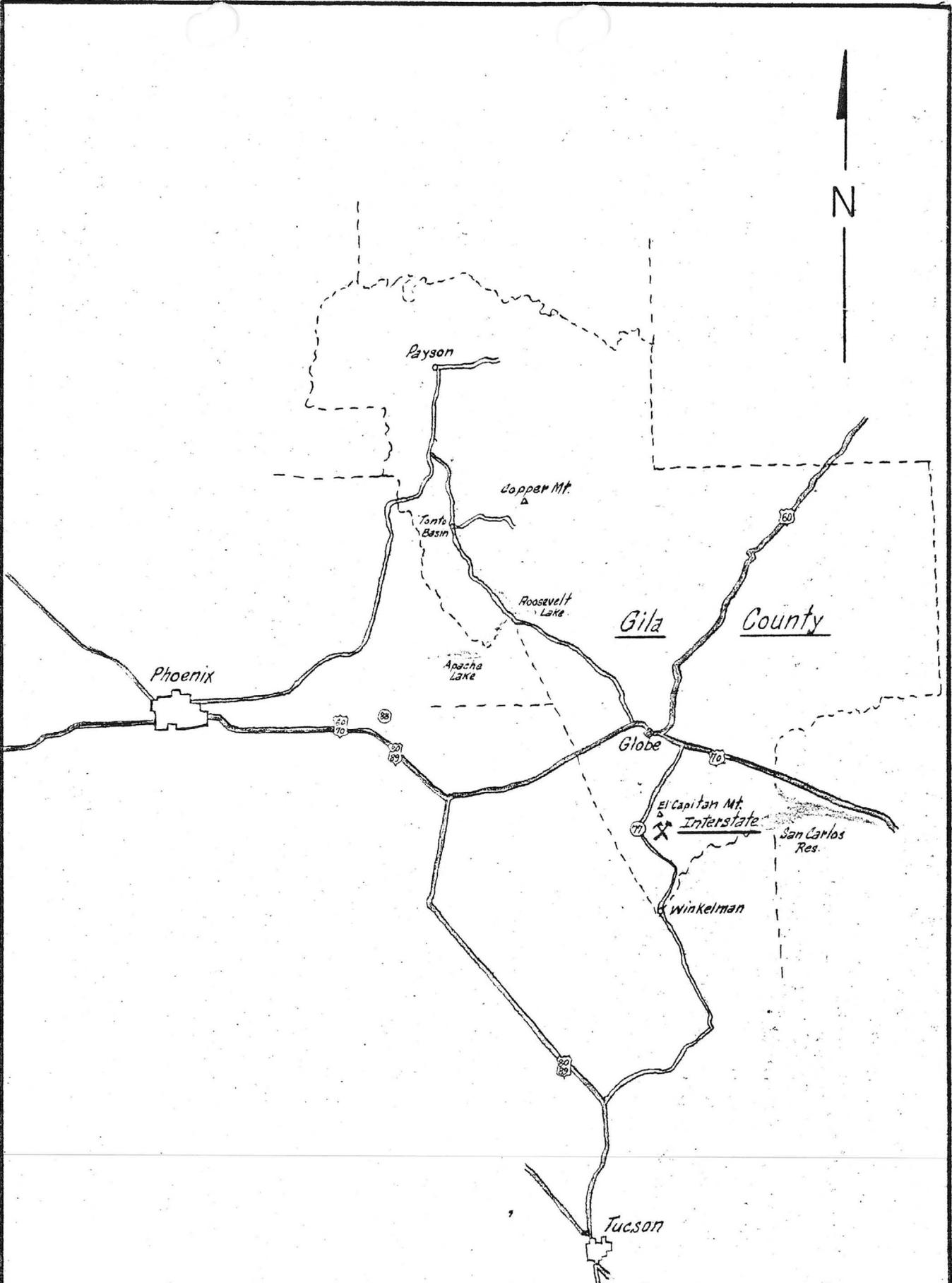
56400



INDEX MAP
 PORTION of ARIZONA
 SCALE
 1 INCH = ± 21 MI.

MAY, 1958

RE MERITZ



INDEX MAP
 PORTION of ARIZONA
 SCALE
 1 INCH = ± 21 Mi.

MAY, 1958

R.E. MIERITZ

P7

**CURSORY EXAMINATION
REPORT
of the
INTERSTATE URANIUM PROPERTY
in
EL CAPITAN MINING DISTRICT
Gila County, Arizona**

by

**R. E. Mieritz
Mining Consultant
Phoenix, Arizona**

May 17, 1958

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INTRODUCTION

At the request of Mr. C. Orin Swain, President of the Desert Queen Uranium Company of Whittier, California, the writer has completed an examination and evaluation of the Interstate uranium property by a physical field visit to same, a study of available limited information and by application of the writers knowledge of the area which we are concerned with.

The field examination of the Interstate group of claims was completed on March 22, 1958 during a miserable day of rainstorms and wind.

Acknowledgement must be made for the assistance of Mr. Angius whom was very helpful to the writer on the field trip and providing information.

CONCLUSIONS

As a result of the field examination personally completed by the writer and a review of the limited available information, the following conclusions are forwarded:

- (1)-Uranium mineralization is limited to a silicified shale member within the Dripping Springs quartzite formation.
- (2)-The grade of the mineralization thus far indicated is approximately .10% U_3O_8 .
- (3)-Existence of stronger uranium mineralization is a possibility as elongated zones controlled to a great extent by local dip changes and/or depressions created at time of deposition of the shale.
- (4)-Exploration as surface geologic mapping, geophysical instrumentation, outcrop sampling, core drilling and sampling must be completed to adequately develop the property and evaluate same.

(5)-Some \$100,000 may be required to completely accomplish the recommended exploration program.

(6)-If such funds are not available, the project should be forgotten since any expenditure less than \$50,000 on this property would be a waste of funds.

PROPERTY and LOCATION

The Interstate claims are contiguous and lie in Sections 2 and 3 of T. 3 S., R. 15 E., Gila and Salt River Base and Meridian, Gila County, Arizona. The property is 18 miles southeast of Globe, Arizona in the El Capitan Mining District, El Capitan Mountain Range.

Another property, the Desert Queen claims adjoin the Interstate claims on the north and east.

Interstate claims are accessible over State Highway 77 from Globe. A short Jeep road connects the property with route 77.

Fifteen contiguous standard lode mining claims make up the Interstate property, the claims of which are tabulated below:

Interstate

Zora # 1	Sky # 1	Fran #1
Zora # 2	Sky # 2	Fran # 2
Zora # 3	Sky # 3	Fran # 3
Zora # 4	Sky # 4	Fran # 4
Peanuts	Sky # 5	Fran # 5

The writer has assumed the validity of these claims as to proper location notices, etc and he is amply sure sufficient work has been completed on the claims to qualify them for annual assessment requirements.

GEOLOGY

Geology-wise, the property is situated in an area of simple stratigraphical rock history, namely sediments, and in particular the wide

spread, very thick Dripping Springs quartzite formation. To describe regional structural and geologic sequences would add little to this report since its interpretation would not influence to an great extent the analysis of the evaluation.

MINERALIZATION

Occurance of uranium mineralization on this property can be simply stated as being confined to a two to four foot thick silicified shale member within the Dripping Springs quartzite formation. Where recent erosion has cut deep canyons, exposures of the shale member are in evidence and in many instances increased radioactivity is observed. Some of the increased radiation is due to the rock change, however, the balance of the increased count represents the presence of radioactive minerals.

The uranium minerals observed at the property are uranophane, autunite and torbernite, all being secondary minerals, the former two containing calcium and the latter containing copper. The color of these minerals are light green to apple green, earthy and resinous in character. These uranium minerals are found along the thin bedding planes or parting layers of the shale member rather than as disseminations throughout the mass. This fact indicates deposition of the uranium minerals were simultaneous with that of the shale member, the minerals being carried in solution until deposition occurred.

A study of the drill hole probings indicates that a stronger concentration of uranium occurs near the middle of the shale member rather than being evenly distributed throughout. Moreover, there is strong indications that secondary enrichment has also occurred since there is a distinct abrupt increase at the top of mineralization with a gradual diminishing value when passing through the zone or member. Although feeble,

the probing results also indicate the intersection or top of the shale member. (see drill hole probing results in appendix)

Clues to stronger mineralization may possibly be identified with changes in bed dips or strike depressions. Therefore, detailed geologic mapping is a definite requirement as a guide to future exploration.

DEVELOPMENT

To date a meager amount of unplanned or haphazard development has been completed as trenches, cuts and diamond drilling. There is little record of the results obtained by samples taken from outcrops, cuts and trenches, geologic drill core logs and samples and maps showing geology and locations of drill holes, all of which is pertinent information paid for but is not now available for a reliable evaluation basis.

The Interstate Group has been developed with trenches, cuts and drill holes. Some 924 feet of diamond drilling was completed in seven holes. These holes are intermittently spaced over an area 700 feet by 400 feet. The total sum of information obtained from this drilling was to indicate the presence of the thin silicified shale member, host to the uranium mineralization within the quartzite and to indicate to some extent, by probing, the strength of uranium content. Without a chemical analysis for comparison, the radiation count obtained is to a great degree meaningless.

In addition to the above development, many six foot jack-hammer holes were drilled paralleling the strike of the shale member which outcrops in a canyon wall traversing the property. Apparently no samples were taken of the cuttings to determine the uranium content.

Of the seven holes diamond drilled on this property, in particular on the Sky # 5 claim (see map), the writer has probing information on but five, holes 1 thru 5. The probing results of each hole are tabulated as an appendix. Holes 1, 4 and 5 show an increase in radiometric readings as

follows:

Hole	Depth in feet		Probe Reading	Equiv. U ₃ O ₈
	From	To		
1	172	174	.60	.10
4	43	45	.50	.09
5	34	35.5	.80	.11

Mr. Angius advised that high readings were obtained in holes 2, 3, 6 and 7 but since the writer has no definite records, the information can not be used in his evaluation except in a general way.

The above results indicate mineralized shale was intersected at depths equivalent to projection of the local dip and uniform thickness. From the results also, one might suggest the existence of a stronger mineralized zone somewhere near holes 1, 4, and 5, however, more field and exploration work would be required to substantiate this thought.

All in all, development of this property is very meager and presents many evaluation difficulties except in a geologic light. Much exploration is needed to provide ample information for proper records and evaluation.

A visit to the local A. E. C. office here in Phoenix proved futile. Their office was very uncooperative.

RECOMMENDED EXPLORATION

For reasons stressed in paragraphs under "Mineralization", the following exploration steps must be considered:

- (1)-A complete surface geological mapping of the property together with topographical features such as drainage, surface contours, etc is required.
- (2)-A radiometric grided survey in those areas where the mineralized shale member is known to exist. This to possibly isolate zones of stronger mineralization.

- (3)-Initiate an adequate sampling program designed to test the strength of mineralization of all exposed outcrops. (attempt if possible to correlate stronger areas indicated by sampling with that of stronger areas indicated by item 2-geophysical survey).
- (4)-Initiate a program designed to test by core drilling the possible indicated strong areas.
- (5)-Initiate a rigid drill core and sludge sampling program such that samples can be assayed chemically and the correct results may be properly evaluated through geological correlation and preparation of adequate sections, maps, etc.
- (6)-This exploration work must be completed under the rigid supervision of a professional man who is experienced in geology, drilling, handling of samples, etc.

EXPLORATION COSTS

A program such as outlined above is not tangible or materially fixed since advancement from one phase to the succeeding phase is completely dependent on the negative or positive results of the preceding phase. Thusly, the program may require all five phases and on the other hand it could easily be limited to the first three phases.

Assuming the recommended exploration were carried to completion, an expenditure of approximately \$50,000 must be considered to obtain a minimum amount of information and were results encouraging, an additional like sum might be necessary. On the other hand, were only the first three phases necessary and the program limited to this point because of poor or negative results, the cost would not necessarily exceed \$7,000 for the required professional fees involved and cost of sampling, assaying etc.

If sufficient fore-sight to project the financing of this project to the

ultimate figure of \$100,000 is not possible or available, it would be wise to forget the matter entirely since there is little to be gained by spending a few dollars here and a few dollars there. Past experience as to exploration on this property is ample proof.

ONE RESERVES

The writer would not only be kidding himself, but would be attempting to fool others if an ore reserve estimate was forwarded. All that can be said using the available information and the knowledge gained from the examination is that an undeterminable large tonnage of lowgrade uranium mineralized rock is indicated. A projected grade of this material is indicated to be slightly over .10% contained uranium, a material which economically can not be considered "ore" since mining, trucking and milling costs would exceed the value of the contained mineral.

It is therefore pertinent that future exploration be directed towards a search for stronger mineralization within the known mineralized shale bed.

Respectfully submitted,

Richard E. Mieritz
Mining Consultant
Phoenix, Arizona

May 17, 1958



APPENDIX

Tabulation of radio-metric probing of drill holes
on the Sky #5 claim, Interstate Group, Gila County, Ariz.

<u>Hole # 1</u>		<u>Hole # 2</u>		<u>Hole # 3</u>	
<u>Depth</u>	<u>Probe Read.</u>	<u>Depth</u>	<u>Probe Read.</u>	<u>Depth</u>	<u>Probe Read.</u>
0 to 70 feet		5	.04	5	.05
.04 avg.		10	.06	10	.05
75	.05	15	.07	15	.05
80	.02	20	.10	20	.05
85	.03	21	.15	25	.04
105	.02	22	.17	30	.05
125	.03	23	.08	35	.06
145	.02	25	.06	40	.06 Shale
150	.05	27	.02	45	.07
155	.04 shale	30	.06	46	.26
162	.07	48	.04		
165	.03 shale	50	.03		
170	.08	52	.05		
172	.09	55	.07		
173	.70	57	.05		
174	.40	60	.04		
175	.30	65	.03		
177	.09	67	.05		
180	.07	70	.04		
182	.08	77	out		
184	.12				
186	.08				
187	.10				
188	.07				
190	.06				
192	.08				
194	.12				
195	.10				
196	.06				
200	.08				
201	.08				
202	.10				
205	.07				
206	.06				
210	.05				
220	.07				
229	.10				
233	.08				
235	.07				
237	.05				
240	.04				
245	.05				
252	.07				
255	-				

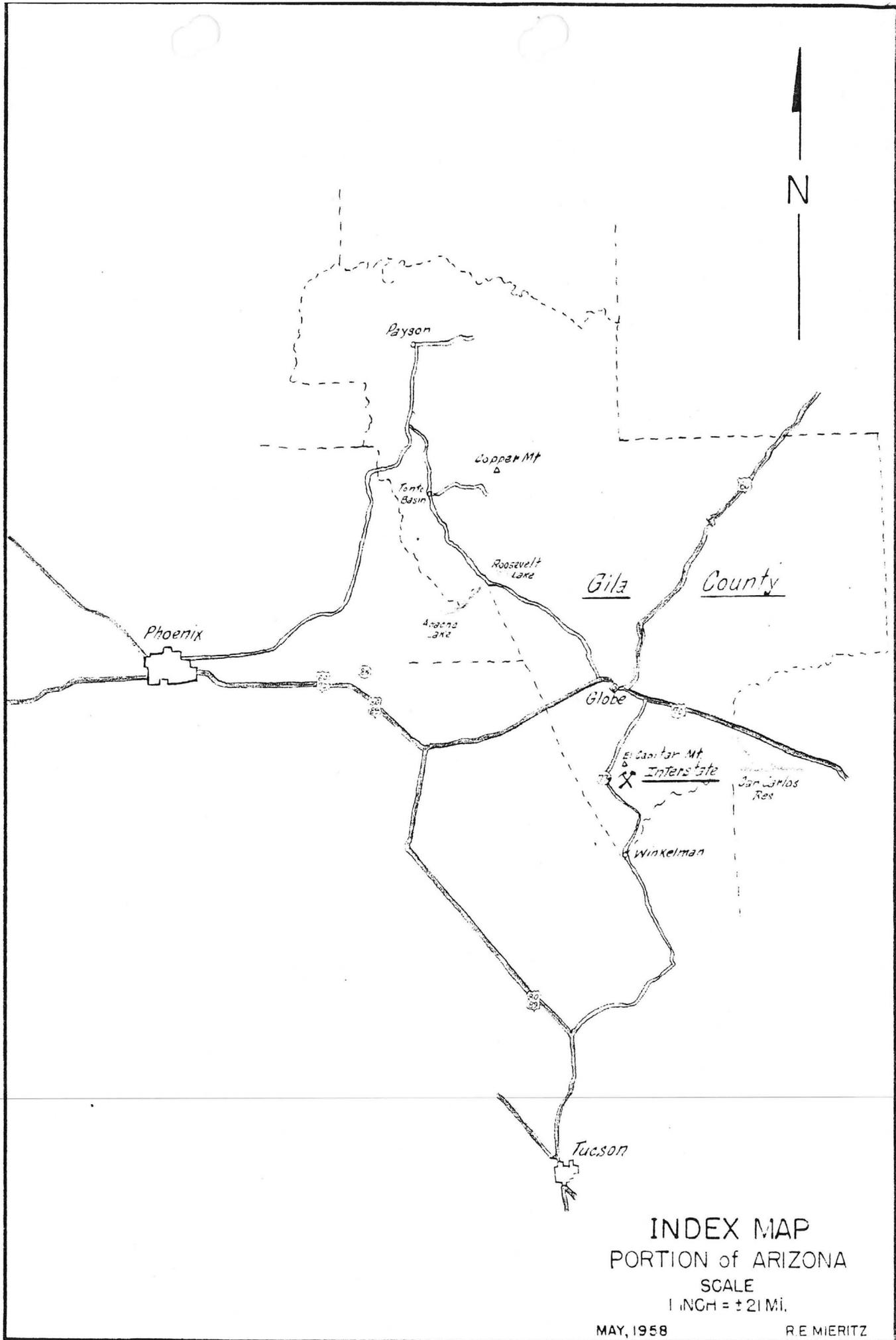
<u>Hole # 3</u>		<u>Hole # 4</u>	
<u>Depth</u>	<u>Probe Read.</u>	<u>Depth</u>	<u>Probe Read.</u>
5	.05	5	.06
10	.05	10	.05
15	.06	15	.06
20	.05	20	.05
25	.07	25	.07
30	.08	30	.08 Shale
35	.05	35	.05
40	.10	40	.10
43	.70	43	.70
45	.30	45	.30
47	.07	47	.07
48	.07	48	.07
50	.07	50	.07

<u>Hole # 5</u>	
<u>Depth</u>	<u>Probe Read.</u>
0	.05
33	.20
34	1.30 Shale
35½	.40
36	.20

NOTE

Holes 1 and 2 were probed on 4/27/55
 Calibration .10% U₃O₈ -- .3 to .3
 .20% 1.2 to 1.5

Holes 3, 4 and 5 probed on 5/9/55
 Calibration .10% U₃O₈ -- .65
 .20% -- 1.30



INDEX MAP
PORTION of ARIZONA

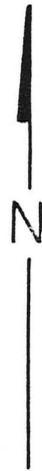
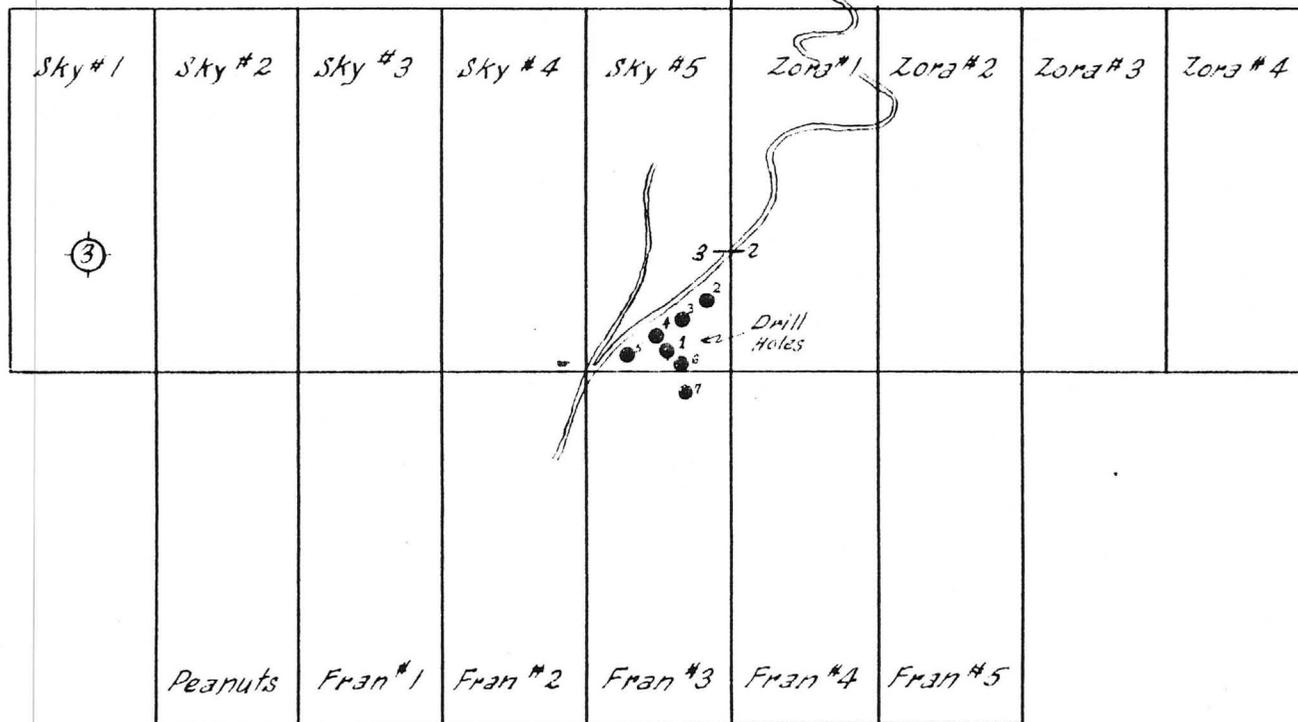
SCALE
1 INCH = ± 21 MI.

MAY, 1958

R E MIERITZ

R. 15 E.

Desert Queen Claims



T.
3
S.

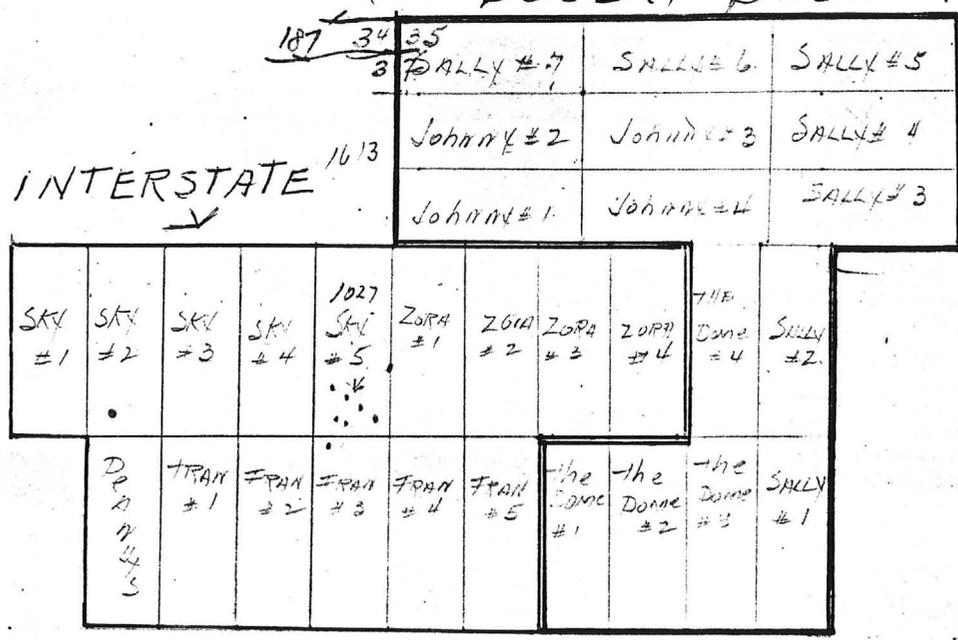
CLAIM MAP

INTERSTATE GROUP
EL CAPITAN MINING DISTRICT
GILA COUNTY, ARIZONA
PAGE SIZE SCALE
1" = 800 FT.

MAY, 1958

R.E MIERITZ

DESERT QUEEN



SIX HOLES WERE DRILLED ON SKY CLAIM #5 - THIS GROUP (INTERSTATE) WEREN'T SURVEYED OFFICIALLY AND MAY OVERLAP ONE ANOTHER.

1 HOLE WAS DRILLED ON FRAN #3 - 600 FT DISTANCE FROM OPEN CUT AND ORIGINAL STRIKE.

2 HOLES WERE DRILLED ON JOHNNY #4 FOR LOCATION WORK. ON ~~THE~~ CLAIMS OWNED BY DESERT QUEEN G.K.A.

Dear Dick:

I've enclosed sketch of claims as they lay in relation of one group to another.

Any further assistance I can be of I'd only be glad to do so.

George



C. Orin Swain

LICENSED REAL ESTATE BROKER

~~2042 EXETER STREET~~

~~PHON: OXFORD 4-2224~~

WHITTIER, CALIFORNIA

NEW ADDRESS: 9317 COLIMA RD.

NEW PHONE: OXFORD 3-7705

COMPLETE
REAL ESTATE
SERVICE

BUSINESS
OPPORTUNITIES

CLAIM: KEY HOLES NO. 3, No. 4, No. 5 - May 9, 1955.

CALIBRATION	0.10	.70	.60
	0.20	1.40	1.20

HOLE NO. 3		HOLE NO. 4		HOLE NO. 5	
0	.03	0	.06	0	.05
3	.05	3	.06		
10	.06	10	.05		
15	.06	15	.06		
20	.05	20	.05		
25	.04	25	.07		
30	.05	30	.08		
35	.06	35	.05		
40	.06	40	.10		
45	.07	43	.10		
46	.26	45	.30		
		47	.07		
		48	.07		
		50	.07		
				33	.20
				34	1.20
				35	.40
				36	.20

Handwritten notes:
 - Next to 43: } 2
 - Next to 45: } 2
 - Next to 43: } .09 light
 - Next to 34: } 1/2
 - Next to 35: } 1/2
 - Next to 36: } 1/2
 - Next to 34: } 0.11
 - Next to 35: } 0.11



C. Orin Swain

LICENSED REAL ESTATE BROKER

~~240 EAST PHILADELPHIA STREET~~

~~PHONE: 222-2222~~

WHITTIER, CALIFORNIA

NEW ADDRESS: 9317 COLIMA RD.

NEW PHONE: 946-3-7705

213-696-6423

COMPLETE
REAL ESTATE
SERVICE

BUSINESS
OPPORTUNITIES

Recd

CLAIM: SKY HOLE NO. 1 DATE 4/27/55.

STANDARDS	BEFORE 1st PROB.	AFTER 1st PROB.	AFTER 2nd PROB.
0.10 %	0.6 - 0.3	0.6 - 0.7	0.6 - 08
0.20 %	1.2 - 1.5	1.2 - 1.5	1.2 - 1.5

DEPTH	HOLE NO. 1	DEPTH	HOLE NO. 1	DEPTH	HOLE NO. 2
all	0.03	192	0.08	all	0.04
Up 20	0.04	194	0.12	5	0.03
25	0.05	195	0.10	10	0.06
30	0.04	196	0.06	15	0.07
40	0.05	200	0.05	20	0.10
45	0.02	201	0.08	21	0.15
50	0.03	202	0.10	22	0.17
60	0.04	205	0.07	23	0.08
65	0.03	206	0.06	26	0.06
70	0.04	210	0.05	27	0.08
75	0.05	220	0.07	30	0.06
80	0.02	229	0.10	48	0.04
85	0.03	233	0.08	50	0.03
105	0.02	235	0.07	52	0.05
125	0.03	237	0.05	55	0.07
145	0.02	240	0.04	57	0.05
150	0.05	245	0.05	60	0.04
155	0.04	252	0.07	65	0.08
162	0.07	255	-	67	0.05
165	0.05			70	0.04
170	0.08			77	Out
172	0.9				
173	0.7				
174	0.4				
175	0.3				
177	0.09				
180	0.07				
182	0.08				
184	0.12				
186	0.08				
187	0.10				
188	0.07				
190	0.06				