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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CATHERINE AND MICHAELS

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 474A

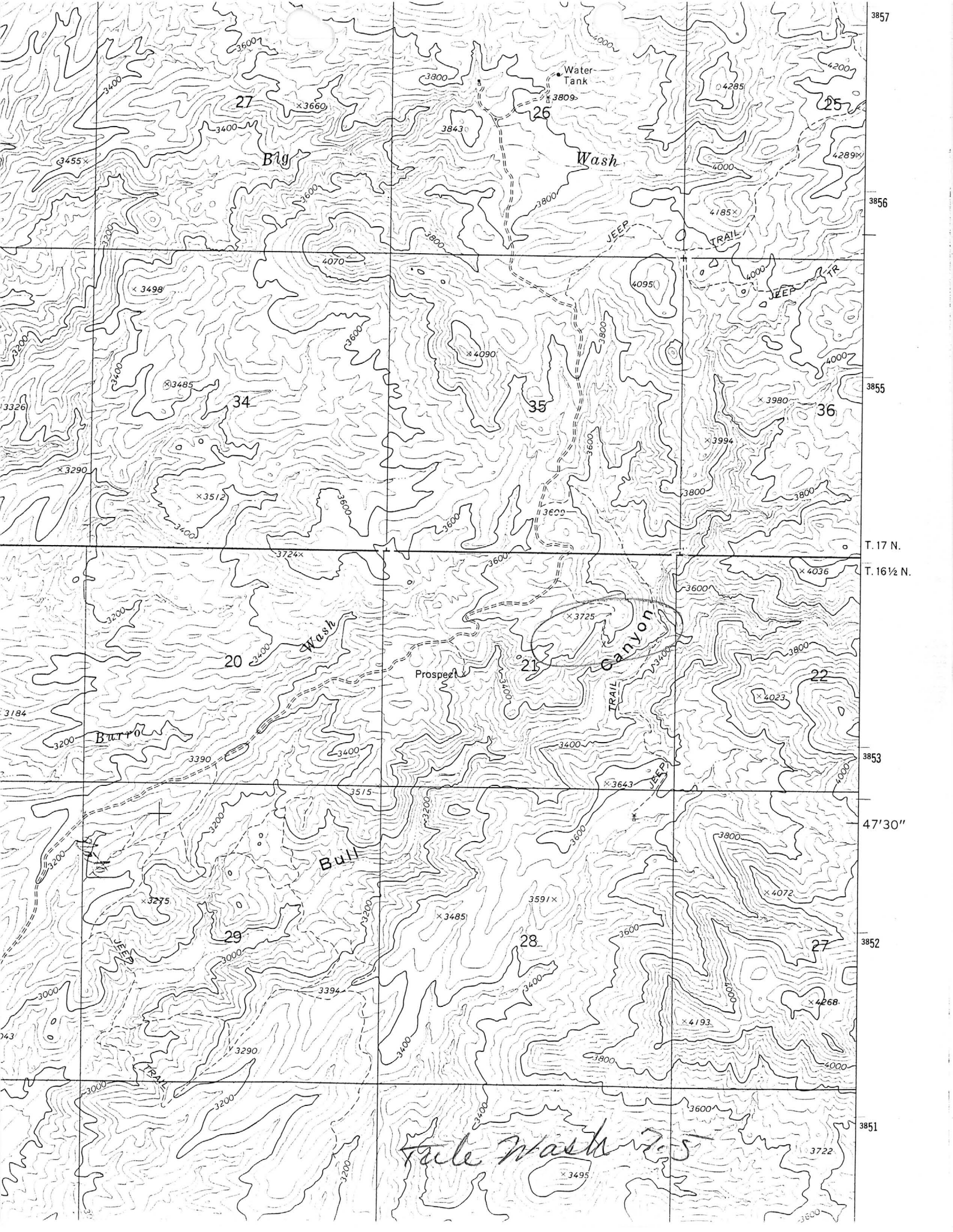
LOCATION: TOWNSHIP 16.5N RANGE 12 W SECTION 21 QUARTER NE  
LATITUDE: N 34DEG 47MIN 59SEC LONGITUDE: W 113DEG 31MIN 00SEC  
TOPO MAP NAME: TULE WASH - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:  
URANIUM

BIBLIOGRAPHY:

USGS TULE WASH QUAD  
AZBM BULL 182, P 255  
GJBX 143(81), P. 204 RADIOACTIVE OCCUR AND  
URANIUM PRODUCTION IN AZ BY SCARBOROUGH  
ADMMR CATHERINE AND MICHAELS FILE  
USGS B1147A P. A16 RECON STUDY OF U DEP IN AZ



3857

3856

3855

T. 17 N.

T. 16 1/2 N.

3853

47'30"

3852

3851

Catherine and Michaels (527)  
NE 1/4 sec. 21 T. 16 1/2 N., R. 12 W.  
Mohave County

reference: Coal, Oil, Natural Gas, Helium, and Uranium in Arizona by H. Wesley Peirce, Stanton B. Keith, and Jan Carol Wilt  
The Arizona Bureau of Mines Bulletin 182 1970

Uranium occurs in a Tertiary sedimentary formation area has been prospected

"Uraniferous milky-white to greenish uraniferous opal with irregular patchy manganese oxide in local replacement layer in thinly laminated, poorly consolidated limestone of unit of tilted Tertiary sedimentary series overlying Precambrian granite. Channel samples ran 0.005 to 0.013 percent U. Specimen ran 0.2 percent U." p. 255

Name of Mine or Prospect: Catherine & Michael Claims	Township 16N	Range 12W	Section	Priority B																		
Principal Minerals:	1:250,000 Quad Prescott		7.5' - 15' Quad																			
Associated Minerals: Manganese dioxide, opal, limestone	District Aquarius		Principal Product																			
Type of Operation: Surface	County Mohave	State Ar.	Type of Deposit Sedimentary																			
Ownership or Controlling Interest: R.H. Carr & Associates, Los Angeles (1955) <sup>2</sup>																						
Access: Unsurveyed section of Mohave County, Arizona 8 miles east of U.S. 93 in the Aquarius Cliffs; west facing scarp(?)																						
Structural Control or Geological Association: <p>"The uranium deposits occur on the east side of a small valley in thinly laminated and poorly consolidated limestone units 20-30 feet thick; beds strike N20-30°W and dip 25-30°NE. The limestone conformably overlies a series of sandstone and shales and is disconformably overlain by arkosic conglomerates. The limestone is locally replaced by milky white and greenish opal both commonly stained with irregular patches of black manganese oxide."<sup>1</sup></p> <p>"Thin-bedded silicified limestone; opaline replacement of limestone of pre-Tertiary age; uranium may not be in the form of a definite mineral but rather disseminated in the opal lattice."<sup>2</sup></p>																						
Age of Mineralization:																						
Production History		Geochemical Analyses																				
2 shallow prospects		<p>Greenish opal 0.2%U            3 samples "grab" .005-.013% U<sup>1</sup>  <u>Radioactivity</u><sup>2</sup>            Background: 4 divisions on 0.2 scale            Average: 10-15 divisions on 0.2 scale            High: 7 divisions on 2.0 scale  <u>Samples</u><sup>2</sup></p> <table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 60%;"></th> <th style="width: 15%;">%U<sub>e</sub></th> <th style="width: 25%;">Assay</th> </tr> </thead> <tbody> <tr> <td>HG-27-51 "high grade"</td> <td>0.2</td> <td></td> </tr> <tr> <td>HG-78-51 "high grade"</td> <td>0.04</td> <td></td> </tr> <tr> <td>HG-65-51 "channel"</td> <td>.006</td> <td>.005 prospect pit.</td> </tr> <tr> <td>HG-66-51 "channel"</td> <td>.015</td> <td>.013</td> </tr> <tr> <td>HG-67-51 "channel"</td> <td>0.01</td> <td>.007</td> </tr> </tbody> </table>				%U <sub>e</sub>	Assay	HG-27-51 "high grade"	0.2		HG-78-51 "high grade"	0.04		HG-65-51 "channel"	.006	.005 prospect pit.	HG-66-51 "channel"	.015	.013	HG-67-51 "channel"	0.01	.007
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References																						
<p>1) Granger &amp; Raup (1956) p. A-16-A-18.            2) AEC (1970) p. 166.</p>																						

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