

#### **CONTACT INFORMATION**

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# ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: DURANIUM

ALTERNATE NAMES:

SANTA CRUZ COUNTY MILS NUMBER: 101A

LOCATION: TOWNSHIP 20 S RANGE 14 E SECTION 19 QUARTER N2 LATITUDE: N 31DEG 40MIN 21SEC LONGITUDE: W 110DEG 55MIN 55SEC

TOPO MAP NAME: MOUNT WRIGHTSON - 15 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

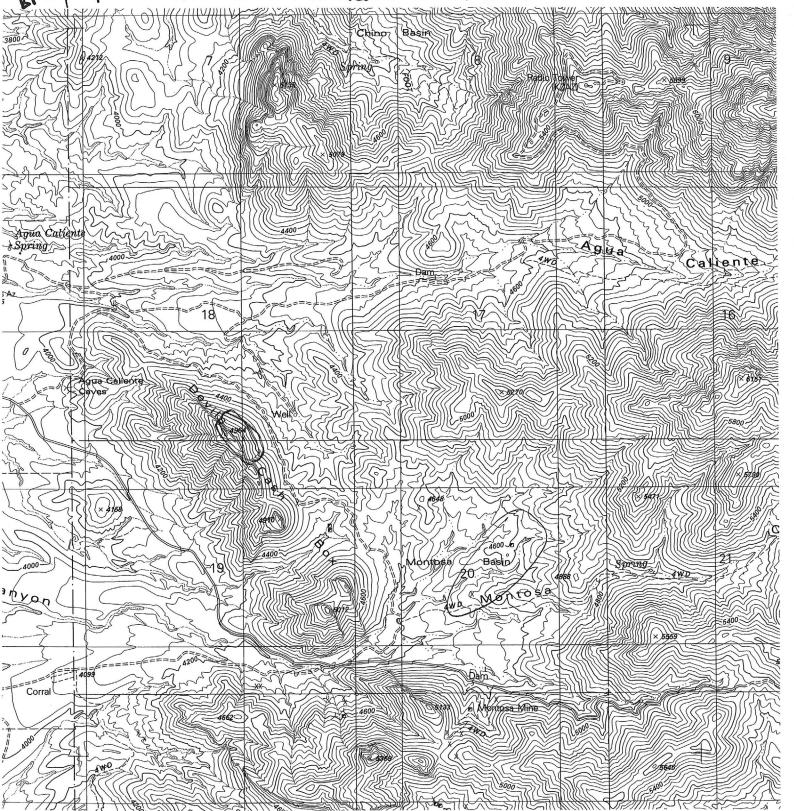
URANIUM

**BIBLIOGRAPHY:** 

USAEC 172-489, SANTA CRUZ CO. PRELIM. RECONN. REPORT P. 18
ADMMR DURANIUM CLAIMS FILE

1 CEO PLATE IN FILE

MT. HOPKINS 7. S'MIN. T205 R14E UNCERTAIN LOCATION - SITES BE LOW NEED TO BE CHECKED NEAR MT. WALGUTSON WILDERWESS BOUNDARY. FK - 2-2009



# ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

# INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM 1517 Kasolite

SANTA CRUZ COUNTY

DURANIUM MINE

MILS # 101A

O-AKA

DURANIUM Claims sile

EXAMINED BY.

1. SAMPLES

8737 8738

0739

DATE(S) EXAMINED 12/1/54

PRELIMINARY RECORMAINSANCE MEPORT FILE A-F-285 2. STATE Arizona COUNTY Santa Crus DISTRICT Old Baldy BABIBACTIVITY READEST TOWN Amendo ou on PROPERTY Duranium Claims 2,378 .05h LOCATION: SEC. 20

3. TYPE OF EXAMINATION .

Surface Radiometric

T. 20 S #. 13 E

4. DIRECTIONS TO DEPOSIT: Going S from Tueson on US 89, turn L just past the Amado Post Office and store and follow road for Lo mt., turn R on Rex Rauch Road; at .5 mt. turn L and cross RR frack; go .2 mt. and take L fork through rates the stand take L brk; go .4 mt. and take L fork through rates the standard take L brk; go .4 mt. and take L brk; go .4 m

- E. MINE OR PROPERTY HISTORY, PRODUCTION AND WORKINGS: One small prospect pit.
- Z. RADIGACTIVITY: B.G. 20 cps. Mus. 3800 cps.
- B. BESCRIPTION OF DEPOSIT (Discuss under: A. Topography, B. Geology, C. Hineralogy)
- A. Rolling mountain foothills with deep gulleys.

R. L. Robinon

TYPE AND WIDTH

Grab sample from location pit Select sample from het spot

Grab sample from hot spot

- B. Faulted altered sediments striking E-W and dipping approximately 150 S. Ore horison appears to be an arkesite sandstone within a conclomorate which may be at the base of the cretaceous. Ore body is about 12' wide by 100' long by h' thick.
- C. Ore horison is an altered arkess containing kasolite, werephase and autunits.

11. PROOF OF OWNERSHIP RECRIVED? No PERMISSION TO PUBLISH RECEIVEDT NO

12. MAP :

None

13. OTHER INVESTIGATIONS:

None

14. ADDITIONAL INFORMATION:

Property is now in litigation.

15. SUPPLEMENTARY RECONNAISSANCE REPORT TO FOLLOW!

# PRELINIMARY RECORNALISANCE REPORT

EXAMINED BY R. L. Robtson DATE(S) EXAMINED 12/1/54	2. STATE ANIZONS COUNTY Santa Crus
1. SAMPLES RUNDER TYPE AND TYPE	DISTRICT Old Baldy (\$
NUMBER TYPE AND STORM RADIO	ACTIVATY ASSESS TONE Assets  6U308 PROPERTY Direction Claims
8737 Grab sample from location pit 8738 Select sample from hot spot	PROPERTY Direction Clares 792 2,378
8739 Orah sample from hot spot	LOCATION:
	SEC. <u>20 ), 20 S &amp; 13 E</u> 3: TYPE OF EXAMINATION:
	Surface Radionatoric
4. DIRECTIONS TO DEPOSIT: Going S from To	breson on US 89, turn L'just past the smade Post Of
track; to 2 mls and take I fork through the	ween on IS 69 turn I just past the Amade Post Of rm B on Ros Bench Boad; at 5 ml, turn I and cross Feb 1688 15 ml, and terms I force to 15 ml and cross to 1688 15 ml, and terms to 16 ml. Property 18 100 d. past National Front force.
6. MINE ON PROPERTY HISTORY, PRODUCTION A	NEO MORKINGS: One small primper, pits.
7. RADIOACTIVITY: B.G. 20 ope. Mas. 3800 ope.	
	A. Topography, B. Geology, C. Sincenlapy,
A. Rolling mountain footbills with deep g	
appears to be an arkesite sandstone wi	and dipping approximately 16° 5. One heat on thin a complomorate which may be at the base of
the cretaceous. Ore body is about 12'. C. Ore horison is an eltered arkees contact.	THE RESERVE THE PARTY OF THE PA
	Western and astrocker
1. PROOF OF DWIERSHIP RECEIVED! No.	
PERMISSION TO PUBLISH RECEIVEDS No	19. OTHER DAYBET GABLONS
Rone	
	A AND YOUR INTERNATIONS
	Property Least to Constitution of
	. 18. Surrough part of the Marian

# DEPARTMENT OF MINERAL RESOURCES

#### STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine

DURANIUM claims

Date

5-14-57 and 7-12-57

13,

District (Old Baldy)

Santa Cruz County

Engineer

AXEL L. JOHNSON

Subject: visit to property (subsequent visits have found no one present) 6 Mi E of Amado
Owners: Otho V. Kinsley, Kinsley, Arizona

Lessees & Operators: Santa Cruz Uranium Co, 422 Newhouse Hotel, Salt Lake City, Utah
Louis Larsen - President Jerry Phillips - Mine Mgr., Amado

Principal Minerals: Uranium ore in the form of Kasolite

Present Mining Activity: Working with Allis Chalmers HD 5 Bulldozer. (loading ore for shipment

to Cutter Depot) (Bulldozer broken down on 5-16 visit)

(stockpiling 7-21-57 visit)

Milling and Marketing Facilities 5-16-57: Shipping to gov't buying station at Cutter

7-12-57: Stockpiling - 2 men working

Past History and Production: Claims located by a Mr. Montel, sometime about Nov or Dec 1954.,

owned jointly with Mr. Montel & Mr. Kinsley. Utah Construction did some drilling on the property shortly afterwards on option

from Mr. Kinsley.

property tied up in litigation until recently.

40 tons is reported to have been shipped to Cutter by present

operators.

Mine Workings: 1-open cut - 75-ft long (E&W) 12 to 15 ft wide and 6 to 10 ft deep. One recent

churn drill hole visible about 50 ft south of the open cut. Several old churn

drill holes (drilled; by Utah Construction Co) in the area.

Present Mining Operations: Open pit mining operations in a small area in the open cut described

above. Allis Chalmers HD 5 Bulldozer used in this work. Ore pro-

duced loaded on trucks and shipped to Cutter.

Proposed Plans: Plans are to do some diamond drilling in the area.

references ?

DEC 172489 P. 18 Duranism Chaim

ABM Bull LEO P. 289

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Eight holes had been drilled in the vicinity of the open cut. The copy of the drill log did not show at what depth the radioactivity was encountered.

Copy
Drill Log
Santa Cruz Property

(Drilling in immediate area of mine since May 1, 1957)

Hole No.	Depth Feet	RM Reading %U308	Remarks
1	210	0.02-0.10	1/4-000 1 1-10
2	130	0.00-0.05	
3	200	0.00-0.07	
4	165	0.00-0.02	
5	40	0.00-0.00	Needs to be cored
6	60	0.00-0.00	Caved in needs mud
7	160	0.00-0.04	
8	140	0.00-0.00	
9	110	0.01 - 0.09	Drillsite 150' south of entrance
10	150	0.00-0.00	gate to Santa Cruz property, in wash. Heater Claims. Broke through lime- stone into soft shale and limonite. Hole located 1 mile northwest of
11	150	0.00-0.00	mine on road to Amado.  Directly $\frac{1}{4}$ mile west of hole #10  No break in limestone

Four samples were taken at the uranium prospect.

It is doubtful that this property can sustain even a small, profitable uranium mining operation.

# Lead Prospect

About 1 mile, by trail, NE of the uranium cut several shallow, previously existing workings expose seams and small masses of specular hematite. The hematite is disseminated throughout a 15-20 foot wide zone which occurs in a northwesterly trending, steeply dipping calcareous shale bed. The hematite mineralization extends at least 1200 feet to the NW where it terminates against a massive, grey limestone.

Some minor copper staining was noted in a small portion of the outcrop. One random chip sample was taken.

The iron deposit is not sufficient in quantity or grade to justify its operation as an iron producer alone.

Respectfully,

Mike Price

cc: Smithson

Cox

JGR

MP

#### STATE OF ARIZONA

## DEPARTMENT OF MINERAL RESOURCES

MINERAL BUILDING, FAIRGROUNDS
PHOENIX, ARIZONA



November 6, 1957

Kasolite

Mr. Lewis H. Larsen P. O. Box 2254 Salt Lake City, Utah

Dear Mr. Larsen:

The brown crystals associated with the kasolite in the Duranium property have been examined by the United States Geological Survey. The x-ray pattern corresponds to that of cerussite, although the spacings are slightly larger. A spectrographic analysis of both the kasolite and the cerussite are as follows:

Over 10%	Pb	Si U
1-10%	81.	Pb
.1-1%	Fe Mg Al	Fe Mg Al Cu

Cornectte

Our Mr. Flagg is not satisfied that the crystals are cerussite and wants to do a little more work on them when he recovers from the effect of a bad fall.

I hope that the Annie Laurie is working out to your satisfaction. We recently learned that there is reference to the Annie Laurie in A.E.C. Research Report RMOO-590. You no doubt have copy of A.E.C. Report RMO-677, 1951, "Annie Laurie Prospect, Santa Cruz County, Arizona" by R.J.Wright. If not, it is obtainable from the Office of Technical Services, U. S. Departmentof Commerce, Washington, 25, D.C. RMOO-590 may be had from the same source. The prices are not listed and have to be obtained from Washington.

Yours very truly,

FRANK P. KNIGHT, Director.

PK:1p

cc: Mr. Phillips

Mr. Phillips:

The dark minerals in the quarts sample you gave me are hematite and amphibole. I suggest that you send it to the Arizona Bureau of Mines, University Station, Tucson, Arizona for a gold assay. This Department does no assay or spectrographic work.

# MINE

Laboratory Assay Record Date\_\_\_\_

CHEMICAL ASSAY BETA GAMMA SAMPLE LOCATION AND REMARKS EBERLINE TYPE OF SAMPLE NO. TEST FROM ARIZ. SANTA CRIZ URANIUM ARIZ. 2084 1985 -00 +01 .06

# Santa Crus Cal ASSAYS

i sa	Wyo Scaler	在100mm 100mm 1	iteli Pro	speat		
A-14-5	U3 O3		<b>43</b>	5%		
2984	o.ce	o.//2	0.05	<i>\\</i>	Avij-girade pila 30-ser	version prespec
	0.00	0.78	0.05	~./	Manager and Carlings have these	1 1
2986	o.e	0.75	0,00		71	
27.07	o.os	0.30	0.05	0,006	Much 9-46 (3 pers	
2722			<i>/</i> ii/	w:r	##	Acad prayposit

