



## **CONTACT INFORMATION**

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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 11/20/2001

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LOST SPANIARD

ALTERNATE NAMES:  
POTTER-CRAMER

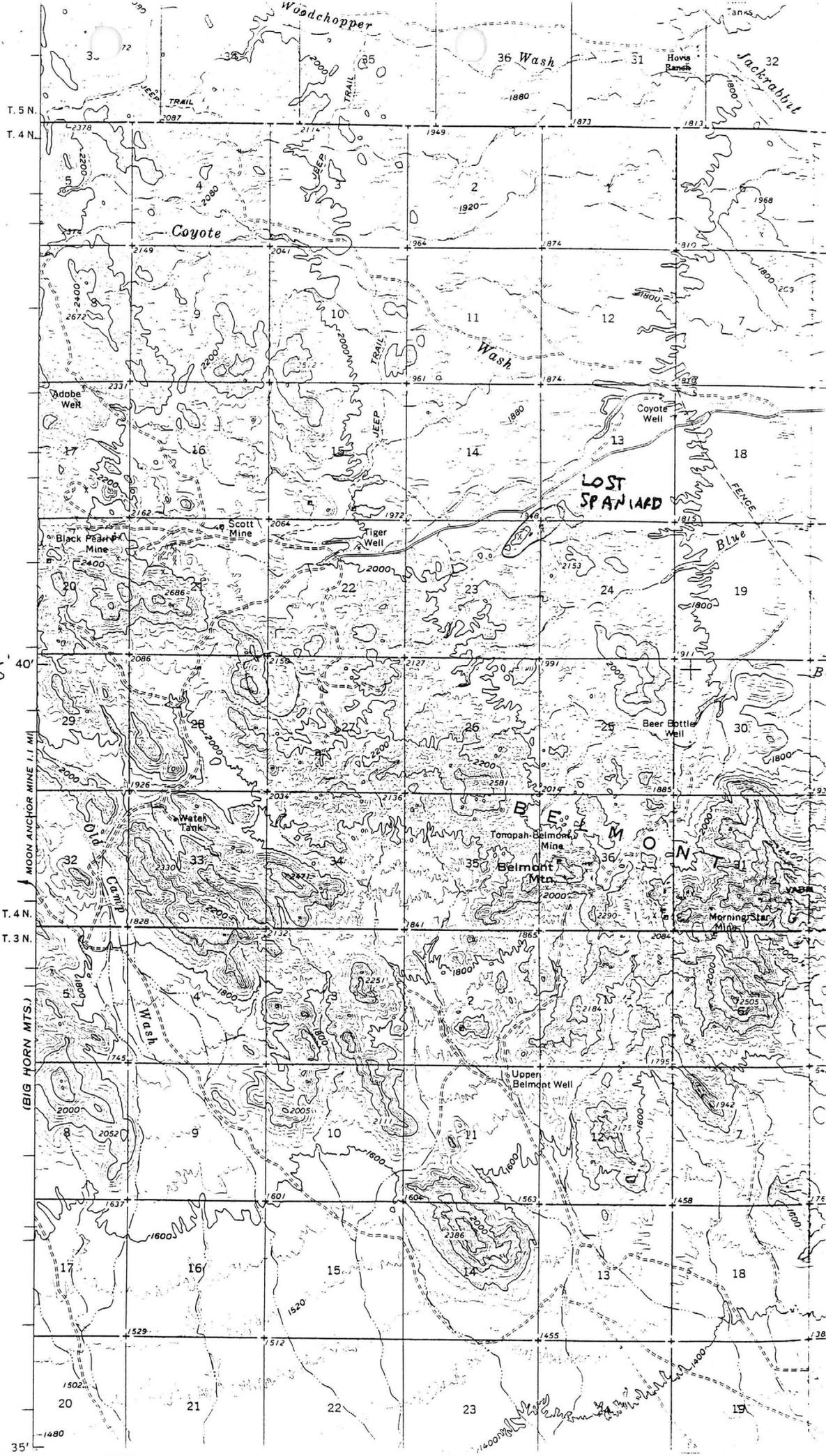
MARICOPA COUNTY MILS NUMBER: 92

LOCATION: TOWNSHIP 4 N RANGE 7 W SECTION 24 QUARTER NW  
LATITUDE: N 33DEG 40MIN 59SEC LONGITUDE: W 112DEG 55MIN 36SEC  
TOPO MAP NAME: BELMONT MTS - 15 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:  
ZINC OXIDE  
LEAD OXIDE  
COPPER OXIDE  
SILVER  
GOLD LODE  
VANADIUM  
SPECIMENS WICKENBURGIT

BIBLIOGRAPHY:  
ADMMR LOST SPANIARD FILE  
ADMMR U FILE MARICOPA PB 6 (USBM 463.2/15079)  
FLAGG A VANADIUM REPORT BOOK I  
ADDITIONAL WORKINGS IN SEC 23 NE 1/3-T4N-R7W



BELMONTS MTS 15' 40"  
 T4N R7W Sec 24

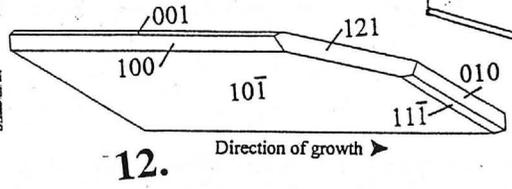
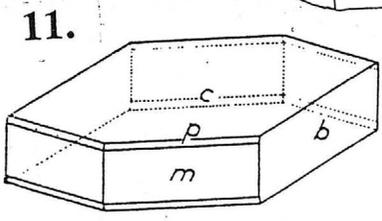
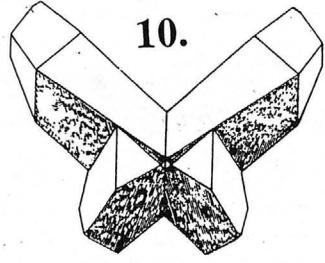
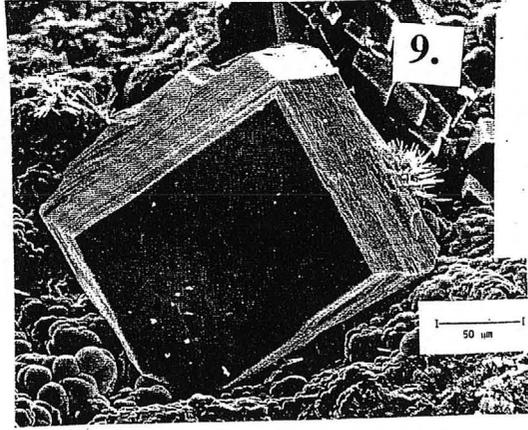
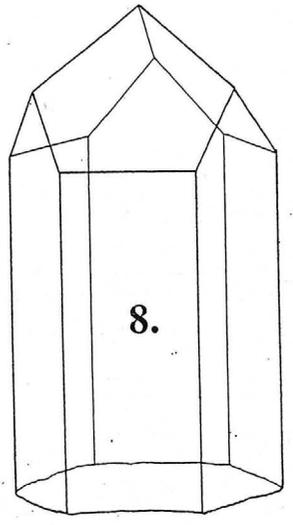
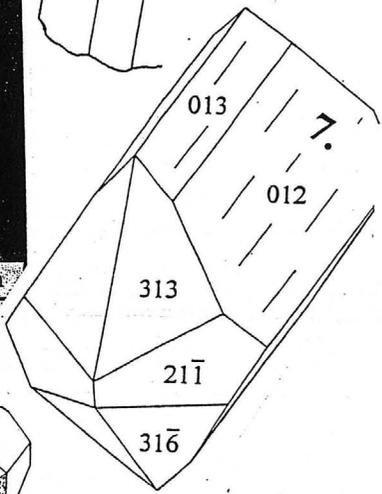
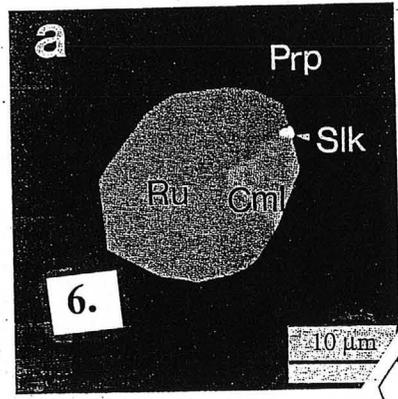
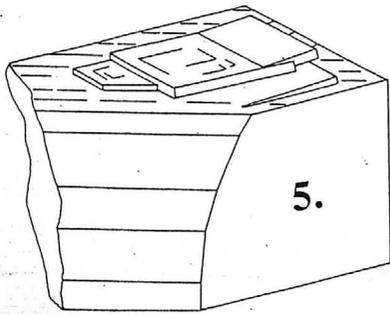
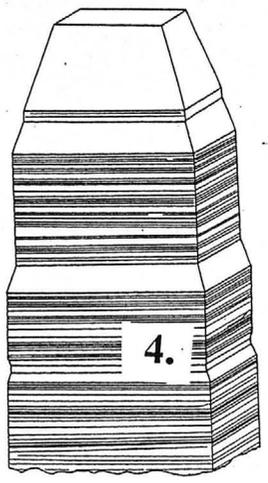
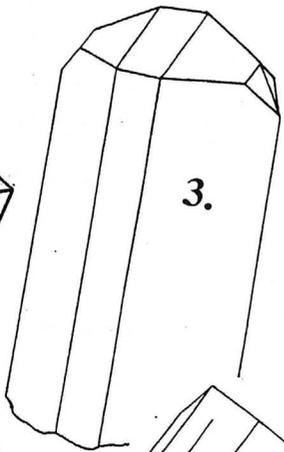
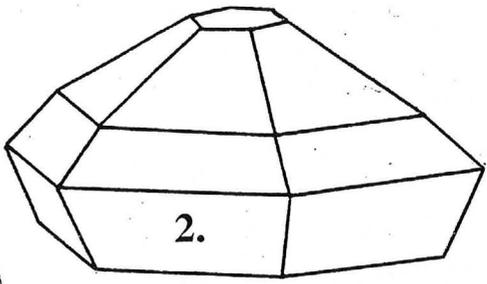
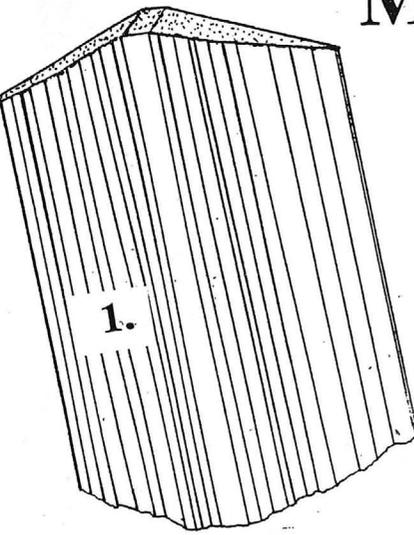
MOON ANCHOR MINE 1.1 MI

(BIG HORN MTS)

35'

# Minerals of Arizona

Ninth Annual Symposium



Sponsored by the Arizona Mineral and Mining Museum Foundation,  
the Arizona Department of Mines and Mineral Resources and the  
Mesa Southwest Museum

Saturday March 31, 2001, Mesa Southwest Museum  
53 N. MacDonald St., Mesa, Arizona

Co-Chairpersons  
Raymond Grant - Mesa Community College  
Kristen Cecchi - Mesa Southwest Museum

## Locality 23 - Potter Cramer Prospect, Maricopa County

The Potter-Cramer prospect [also known as the Phoenix] is developed by a shaft (50-60feet deep) along a contact of rhyolitic volcanics and granodiorite (Sec. 13, T4N, R7W). The shaft explores a steeply east dipping fault zone with purplish andesite masses. **Wickenburgite**, as well as the other species, occurs in this fault zone at the collar of the shaft and in the material on the dump. Wickenburgite was the last species to crystallize in this assemblage and therefore, forms euhedral crystals in cavities and vugs.

Minerals found here include:

Ajoite	Cerussite	Creasyite	Crocoite
Descloizite	Duftite	Fluorite	Fornacite
Hemihedrite	Laumontite	Mimetite	Phoenicochroite
Shattuckite	Vanadinite	Vauquelinite	
<b>Wickenburgite</b>	Willemite		

### WICKENBURGITE

$\text{CaPb}_3\text{Al}_2\text{Si}_{10}\text{O}_{24}(\text{OH})$

HEXAGONAL

Transparent Colorless (rarely pink)

Crystals to 1.5mm

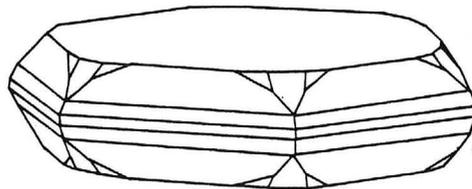
As spongy aggregates of crystals

Fluoresces dull orange (SW)

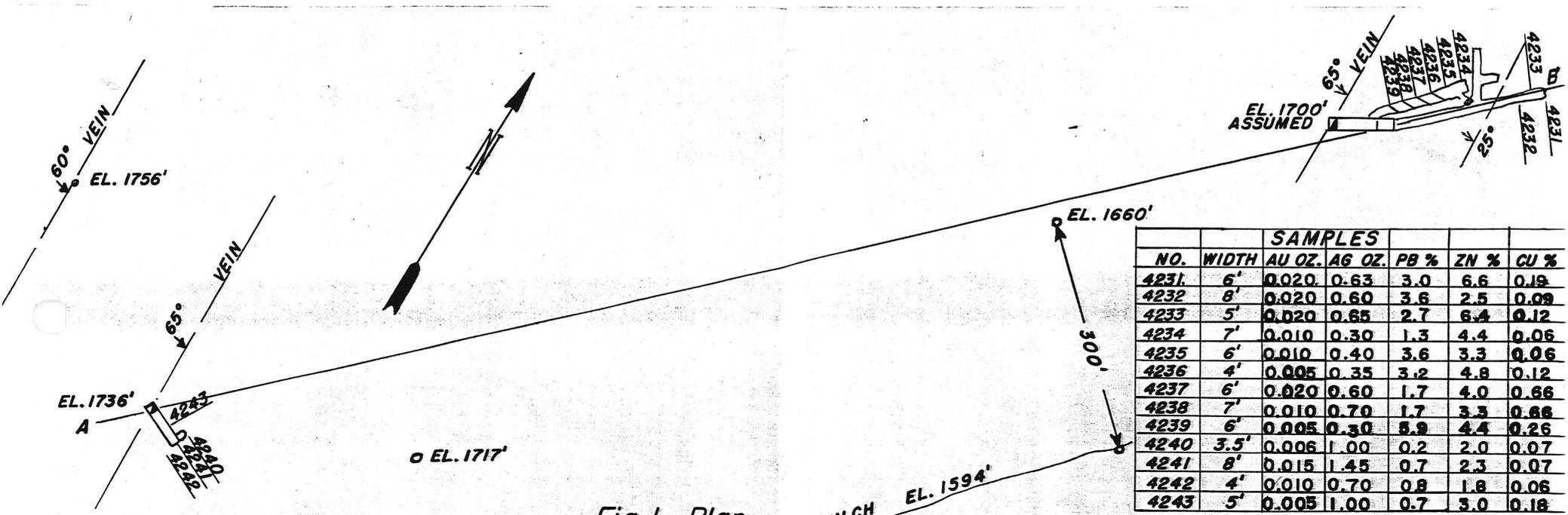
Wickenburg (town near the locality)

Reference:

Williams, S.A. (1968) Wickenburgite, a new mineral from Arizona. *Amer. Min.* 53: 1433-1438.



**Wickenburgite.**  
Potter-Cramer mine (Williams, 1968).



SAMPLES						
NO.	WIDTH	AU OZ.	AG OZ.	PB %	ZN %	CU %
4231	6'	0.020	0.63	3.0	6.6	0.19
4232	8'	0.020	0.60	3.6	2.5	0.09
4233	5'	0.020	0.65	2.7	6.4	0.12
4234	7'	0.010	0.30	1.3	4.4	0.06
4235	6'	0.010	0.40	3.6	3.3	0.06
4236	4'	0.005	0.35	3.2	4.8	0.12
4237	6'	0.020	0.60	1.7	4.0	0.66
4238	7'	0.010	0.70	1.7	3.3	0.66
4239	6'	0.005	0.30	5.9	4.4	0.26
4240	3.5'	0.006	1.00	0.2	2.0	0.07
4241	8'	0.015	1.45	0.7	2.3	0.07
4242	4'	0.010	0.70	0.8	1.8	0.06
4243	5'	0.005	1.00	0.7	3.0	0.18

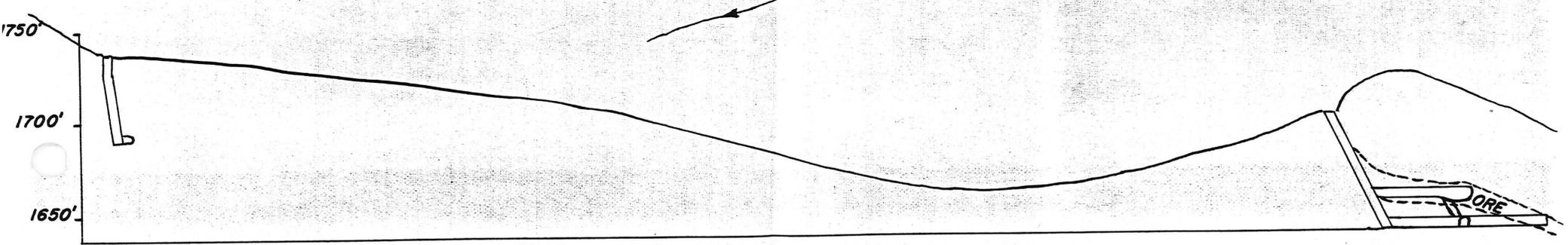
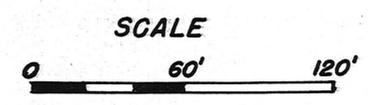


Fig. 2 - Section AB

BRUNTON - PACE SURVEY 15079



LOST SPANIARD MINE, MARICOPA COUNTY, ARIZONA

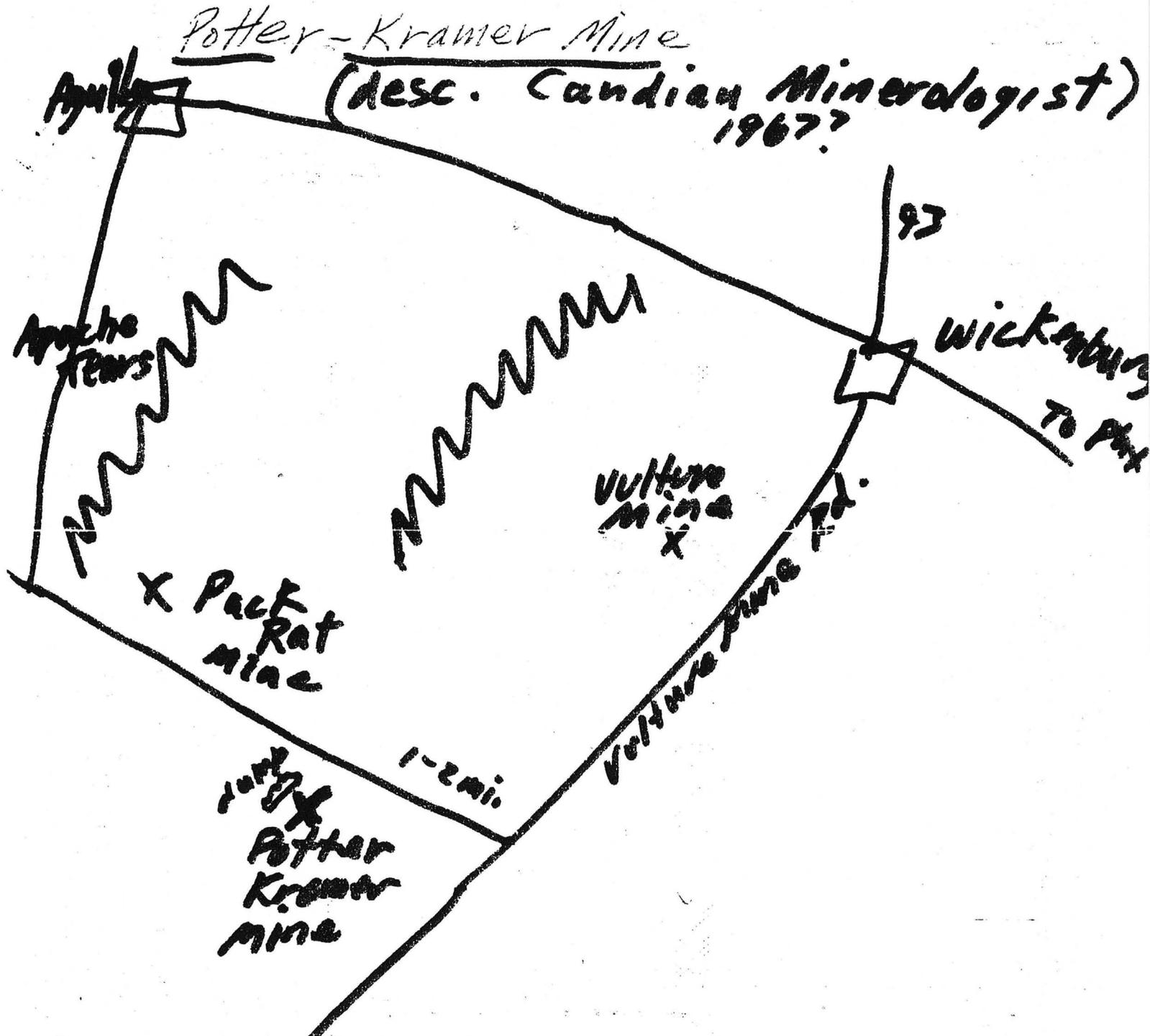
WHR 9

Can anyone direct me to the spot where the Wickenburgite was found?

The museum does not have any for the fluorescent booth.

The little museum in wickenburg does not have any.

Thanks Art.



LOST SPANIARD

MARICOPA COUNTY

KAP WR 3/20/87: Visited the Lost Spaniard (file) Maricopa County located at the section corner common to sections 13, 14, 24 T4N R7W. Here a rhyolite (andesite) dike strikes essentially north-south and dips 75° east. A vein 1 to 4 feet wide below the hanging way of the dike contains oxide minerals of lead, zinc, and copper with fluorite and calcite in a rhyolite (andesite?) breccia. The property has been explored by an inclined shaft on the vein about 75 feet deep. A sample ADMMR #28219 was taken from select dump material for the purpose of checking for fluorescence and mineral identification. The shaft is in good condition. Part of a claim group called the Gray Boy held by Jack R. Cropper (Jack Cropper card) P O Box 1978, Wickenbrug, Arizona 85358 covers the property.

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KAP WR 5/1/87: A specimen of vein material from the Lost Spaniard Mine (file) Maricopa County which was obtained to check for fluorescence does not exhibit any fluorescence. The specimen did contain smears of orange-yellow lead and zinc oxide minerals. No crystalline specimens were found.

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## LOST SPANIARD MINE

16 Miles S. of Vulture on Vulture Road

Reference: Arizona Dept. of Mineral Resources

Lost Spaniard Mine (file)

Present Owner:

Minerals: lead, gold, silver

History of the area:

In 1942 the property was owned by the East Vulture Mining Co. Some work was done and some ore was skipped which ran 16% lead, \$5.00 to \$ 10.00 in gold, and 3 to 4 oz in silver.

LABORATORY REPORT

# Mariposa Spectrographic Laboratory

5029 FOURNIER ROAD, MARIPOSA, CALIFORNIA 95338

Telephone (209) 966-2591

Date 11/14/77 PM

CHARGES: \$6.00

LAB NO. 29693

SUBMITTED BY:

## Qualitative Spectrographic Analysis

Melvin Jones  
Box 1196  
Wickenburg, Arizona 85358

### ELEMENTS FOUND AND ESTIMATED PERCENTAGE RANGE OF CONCENTRATION

SAMPLE MARK

PK #1

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum $Al_2O_3$	10.0	20.0	Lithium			Thallium		
Antimony			Magnesium	0.15	0.30	Thorium		
Arsenic	0.03	0.10	Manganese	0.01	0.06	Tin		
Barium	.001	.006	Mercury			Titanium	.001	.006
Beryllium			Molybdenum	0.01	0.06	Tungsten	0.03	0.10
Bismuth			Nickel	.0007	.003	Uranium		
Boron			Osmium			Vanadium	.001	.006
Calcium CaO	4.0	8.0	Palladium			Zinc	0.30	0.60
Cadmium	0.01	0.05	Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.005	0.01	Potassium	0.10	0.20	Cerium		
Cobalt	---	.0005	Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.10	0.20	Rubidium			Europium		
Gallium	0.01	0.06	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold below detection in sample			Silicon (as SiO <sub>2</sub> )	60.0	80.0 ✓	Lanthanum		
Hafnium			Silver	.005	0.01	Neodymium		
Indium			Sodium	2.0	4.0	Praseodymium		
Iridium			Strontium	.0008	.004	Samarium		
Iron	0.5	1.0	Tantalum			Ytterbium		
Lead	2.0	4.0 ✓	Tellurium			Yttrium		

Remarks: This sample is principally composed of Quartz and a form of Feldspar, probably Anorthite. Considerable Lead is present, silver at up to 3.0 ounces per ton. Note the presence of some Tungsten, present in the mineral form of Powellite.

Respectfully Submitted

*Wayne S. Powell*

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)  
1.0% = 20.0 Lbs. AVOIR.  
0.10% = 2.0 Lbs. AVOIR.  
0.01% = 3.2 oz. AVOIR.  
0.001% = 0.32 oz. AVOIR.  
0.0001% = 0.032 oz. AVOIR.

LOST SPANIARD

COPY

SURVEY OF OPERATING MINES

May 28, 1942

By : J. S. Coupal

EAST VULTURE MINING CO.

East Vulture Mining Company

Ernest R. Dickie, President  
J. C. Lincoln, Vice-President  
J. N. Hall, Secretary and Treasurer

P. O. Box 0, Wickenburg, Arizona

VULTURE MINE

Located 15 miles S.W. from Wickenburg on the Vulture Road, Maricopa County.

1941 production all in gold -- \$125,000.

Unable to approximate the tonnage due to changes in plant capacity but approximately 200 tons per day.

Complete cyanide mill.

Have jigs which made a heavy iron concentrate, carrying a little lead and some gold, shipped to Magma Smelter.

1942 production at rate of about 200 tons per day.

Have sunk the 550 foot incline shaft another 200 feet to the 750 foot level where they have entered the sulphide zone and are now developing. The ore here shown 10 feet wide, carrying 4% of lead and 1% copper. The production for the past year has come from the oxidized portion of this vein at and near the surface and was mined by power shovel. Employing 18 men.

MOON ANCHOR MINE.

Early in 1942 a lease and option was taken on this property.

Located 21 miles south of Vulture on the Vulture Road. Have compressor and Jack-hammers and are this week moving in the old  $\frac{1}{2}$  yard shovel used at Vulture.

The vein is 8 to 10 feet thick and dips at about 10 degrees into the hill and will be stripped and mined.

Have 2000 tons of lead ore out. The ore contains nothing else. Average 10% Pb.

There is a new ramp at the Dixie sliding, near Hassayampa on the S. P. Ry. and the ore will be shipped to El Paso, Texas.

Expect to make 1 car a day as soon as the shovel is in and will then aim to 2 cars a day.

6 men are employed. They have their own truck for hauling.

LOST SPANIARD MINE.

Located 16 miles south of Vulture on the Vulture road. This property has been taken under lease and option, shortly after the first of the year.

Have a shaft down 100 feet and drifting and developing and taking out some ore in the course of this work. Shipped 1 car of ore last week to El Paso. The ore ran 16% lead, \$5 to \$10 in gold and 3 to 4 oz. in silver.

Equipped with hoist, headframe and compressor.

Aim to make one car a week during early development and step up to 3 cars a week as soon as possible.

Employing 4 men on only one shift and would put on two shifts if men were available.

Problems

Early in the work they obtained a serial number rating on priorities. This was on the Vulture mining work and their number was not cancelled when the 30-70 order was issued.

They have applied for bonus payments on new production and I believe have been granted a 0 quota.

Dickie has only two problems which give him concern. They both are on labor. He is unable to get skilled men and has taken to training them. His complaint is that after a 3 or 4 months training themen get partially skilled in some particular line and are then enticed away by a better pay job. He cannot compete with the wages on defense and such other jobs.

The other worry is the growing strength of the unions and how soon he will have union trouble. No trouble is actually in sight but he anticipates it will soon hit small mines.

He stated one instance. He had a bulldozer, idle, and work was being done on some government project near by for an airfield. They asked to borrow his equipment and he so arranged. When the contract was about to be signed, the man in charge called and asked if he was using union men and he said "No" and it was decided that they therefore could not use the bulldozer.

Apart from the lack of labor Dickie says he has no troubles, and is doing his utmost to step up production and hopes the new ore developing in the Vulture will put him in line to add production of essential metals from that working.

J. S. Coupal

Reference - see Vanadium Book I

USBM "U" File states Little  $V_2O_5$

# Mariposa Spectrographic Laboratory

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Date 11/14/77 PM

CHARGES: \$6.00

LAB NO. 29694

SUBMITTED BY:

## Qualitative Spectrographic Analysis

Melvin Jones  
Box 1196  
Wickenburg, Arizona 85358

ELEMENTS FOUND  
AND ESTIMATED PERCENTAGE RANGE  
OF CONCENTRATION

SAMPLE MARK

PK #2

ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %	ELEMENT	Not Less Than %	Not More Than %
Aluminum	0.10	0.20	Lithium			Thallium		
Antimony			Magnesium	0.01	0.06	Thorium		
Arsenic			Manganese	.001	.006	Tin		
Barium	.0006	.002	Mercury			Titanium	.0008	.004
Beryllium			Molybdenum	.005	0.01	Tungsten		
Bismuth			Nickel	.001	.006	Uranium		
Boron			Osmium			Vanadium	.001	.006
Calcium	0.03	0.10	Palladium			Zinc	2.0	4.0
Cadmium	0.03	0.10	Phosphorus			Zirconium		
Cesium			Platinum	Not detected in sample		RARE EARTHS:		
Chromium	.0007	.003	Potassium			Cerium		
Cobalt			Rhenium			Dysprosium		
Columbium			Rhodium			Erbium		
Copper	0.10	0.20	Rubidium			Europium		
Gallium	---	.003	Ruthenium			Gadolinium		
Germanium			Scandium			Holmium		
Gold	below detection in sample		Silicon (as SiO2)	85.0	95.0	Lanthanum		
Hafnium			Silver	.003	.008	Neodymium		
Indium			Sodium			Praseodymium		
Iridium			Strontium			Samarium		
Iron	0.5	1.0	Tantalum			Ytterbium		
Lead	1.0	2.0	Tellurium			Yttrium		

Remarks: This sample is principally composed of Quartz, along with some Lead and Zinc. Silver is present at about 2.0 ounces per ton, but may exceed that in a fire assay.

Respectfully Submitted

*George W. Peacock*

(Spectrographer)

MARIPOSA SPECTROGRAPHIC LABORATORY

percent to ton (2,000 lbs.)  
1.0% = 20.0 Lbs. AVOIR.  
0.10% = 2.0 Lbs. AVOIR.  
0.01% = 3.2 oz. AVOIR.  
0.001% = 0.32 oz. AVOIR.  
0.0001% = 0.032 oz. AVOIR.

# Mariposa Spectrographic Laboratory

Melvin Jones  
Box 1196  
Wickenburg, Arizona 85358

MARIPOSA, CALIFORNIA 95338

November 14<sup>th</sup>, 1977 PM

Dear Mr. Jones:

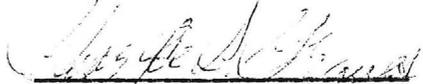
We have enclosed some little sample containers for your use, should you have future small samples to submit. The paper that you used to wrap these samples in was worn through and some of the samples had leaked out.

We also require about 1/3 ounce of sample for the analysis. In order to keep our prices low, we must use our bench pulverizer to reduce samples. When small samples are submitted, we must pulverize them in Coors mortars at about 3 times as long as it takes to pulverize in the bench pulverizer.

We noted some Powellite in the "PK1" sample, along with considerable Lead and some Zinc. Arsenic is quite low, which is favorable to the ore.

Again, our thanks, Mr. Jones.

Sincerely,

  
George R. Graves

1cc

Arizona Department of Mines and Mineral Resources  
INFORMATION FROM MINE CARDS IN MUSEUM

Maricopa Co.  
Wickenburg-landmark  
Potter-Cramer mine

MM M 494 Wickenburgite

MILS # 92

1-AKA

Lost Spanish (file)

Near: mimetite, cerussite  
willamite

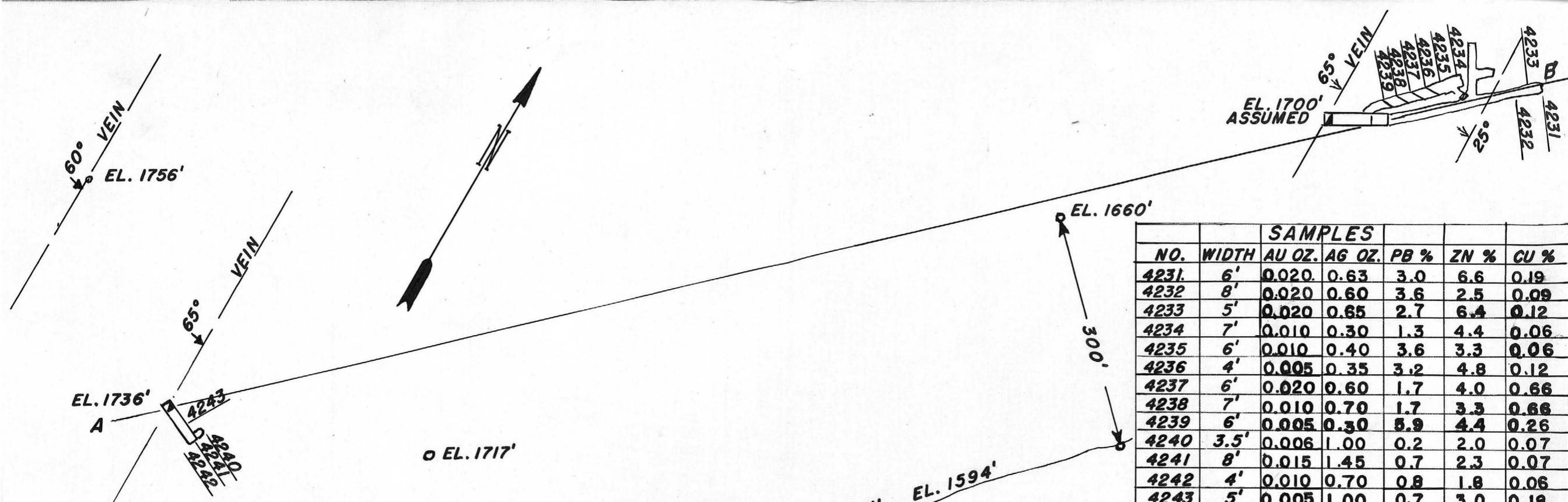
Leads for Qtz.  $\text{CaF}_2$   
veins fluoresces dull  
orange

White to colorless  
glassy luster.  
crystallizes granular or  
spongy X'tals - Sometimes  
rosettes

Wickenburgite (Almosite)  $\text{PbSiO}_3$   
grades into  
lomonite  $\rightarrow (\text{Ca}, \text{Pb})\text{SiO}_4$   
Sn

### Wickenburgite Mine

Go South from  
Wickenburg, past Vulture  
Mine. Just before  
entering Belmont  
Mtn, Turn R. (West)  
go a few miles,  
until old diggings are  
seen close to road,  
on h. side. This  
is the place.



NO.	WIDTH	SAMPLES				
		AU OZ.	AG OZ.	PB %	ZN %	CU %
4231.	6'	0.020.	0.63	3.0	6.6	0.19
4232	8'	0.020	0.60	3.6	2.5	0.09
4233	5'	0.020	0.65	2.7	6.4	0.12
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4243	5'	0.005	1.00	0.7	3.0	0.18

Fig. 1 - Plan

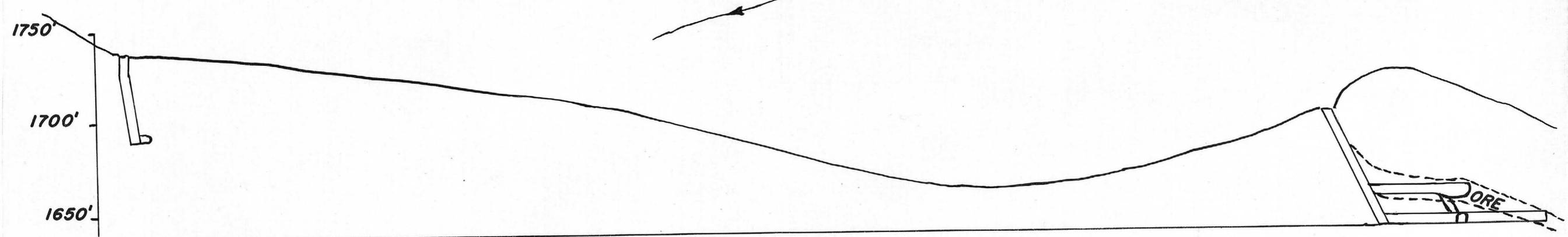


Fig. 2 - Section AB

BRUNTON - PACE SURVEY

15079



LOST SPANIARD MINE, MARICOPA COUNTY, ARIZONA