



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: CASTLE GROUP

ALTERNATE NAMES:

YAVAPAI COUNTY MILS NUMBER: 169

LOCATION: TOWNSHIP 13 N RANGE 4 W SECTION 1 QUARTER NE  
LATITUDE: N 34DEG 30MIN 06SEC LONGITUDE: W 112DEG 37MIN 55SEC  
TOPO MAP NAME: SKULL VALLEY - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:  
GOLD  
SILVER

BIBLIOGRAPHY:  
USGS SKULL VALLEY QUAD  
ADMMR CASTLE GROUP FILE

Prescott, Arizona,  
October 27th, 1932.

Mr. F. H. Clark,  
Los Angeles, California.

Dear Sir:

As a result of my investigation of the Castle group of mining claims located near Skull Valley, Arizona, it is my opinion that the property is without merit insofar as lode mining is concerned and that you are not justified in spending any more time or money on this property.

It appears that the owner presents three possibilities for profitable operation.

FIRST: A so-called "conglomerate" into which he has driven two tunnels. Actually this is an agglomerate composed of angular fragments of granite, schist, and rhyolite, really a hillside detritus which has been cemented together by mud and slimes originating in surface and shallow wash waters. This contains some gold originating in the rhyolite, small quartz seams, and fine gold carried in by surface waters. A sample taken of this material (#7) assayed \$.50 per ton or about \$.70 per cubic yard. The assay is equivalent to what would be recovered if the material were smelted. It reports all the gold contained therein. Were this material washed, gold contained in sulphide or quartz would probably be lost so that actual recovery would be much less than assay returns. Obviously, this material could not be treated at a profit. A selected sample (#5) ran \$.63.

SECOND: A rhyolite mass claimed to be a low-grade ore. This has been explored by a shallow shaft sunk on an oxidized portion giving it a redish appearance. My sample taken there (#4) assayed \$.43. Farther south a shaft

was sunk vertically for about 20 feet and then bore off to the west at an incline for about the same depth. A sample (#6) taken from the north side of the vertical portion ran \$.43 checking #4. A sample (#8) taken from the hanging wall or west side of the incline ran \$.83. It has long been known that the rhyolite is gold bearing. While examining a property to the north east of this one, on which the rhyolite crops in prominent buttes, I was told that numerous samples taken from these buttes averaged \$.80 in gold per ton. Those informed claim that the placer gold has its origin in these rhyolite croppings. Be that as it may, the values are not sufficiently high to make the mining of this type material profitable.

THIRD: A quartz vein lying to the east of these workings. On this vein a tunnel was driven which connects with a shallow shaft. The vein varies in width from about 10" to 4". Tracing the outcrop on the surface for several hundred feet did not show any widening of the vein beyond those limits and there is no reason to suppose that depth would improve its size. My sample (#1) taken in the face of the tunnel from a 4" vein ran \$1.66 and #3 taken at the south side of the shallow shaft at its junction with the tunnel ran \$3.20. Float quartz which originated in the vein was gathered and assayed. It ran (#2) \$.53 per ton.

I do not doubt that selected samples would run higher. The porous character of the quartz indicated that residual free gold occurred due to oxidation of sulphides. But the consistently low results of the three samples taken are not sufficiently encouraging to warrant further prospecting on this vein.

On the evidence presented, I therefore feel entirely justified in the conclusions presented above.

ALBERT S. KONSELMAN  
Mining Engineer.

October 27th, 1932.

Mr. F. H. Clarke,  
Los Angeles, California.

Dear Sir:

The following is my accounting for  
services rendered October 25th, 1932 on Castle  
property near Skull Valley, Arizona.

Field work, one day	\$25.00
Assaying	8.00
Photographs	<u>70</u>
Total	\$33.70

Yours very truly,

H. C. SMOOT  
 CHEMIST AND ASSAYER  
 REGISTRATION NO. 460

# CUSTOM ASSAY OFFICE

## Assay Certificate



For A. S. Konselman,

Prescott, Arizona, 10-26-32.

DESCRIPTION	GOLD PER TON		SILVER PER TON		GOLD AND SILVER VALUE	OTHER METALS PER CENT	VALUE
	OZS. TROY	VALUE	OZS. TROY	VALUE			
Sample # 1	.08	\$ 1.60	0.2	\$ .06	\$ 1.66 ✓		\$
2	.025	.50	0.1	.03	.53 ✓		
3	.16	3.20	Trace		3.20 ✓		
4	.02	.40	0.1	.03	.43 ✓		
5	.03	.60	0.1	.03	.63 ✓		
6	.02	.40	0.1	.03	.43 ✓		
7	.025	.50	Trace		.50 ✓	65¢	"Sulphurate"
8	.04	.80	0.2	.06	.86 ✓		

**N. Y. MARKET VALUES**

GOLD PER OZ.	SILVER PER OZ.	COPPER PER LB.	LEAD PER LB.	ZINC PER LB.
0.67				

Charges \$ 8.00

*H. C. Smoot*



CUSTOM ASSAY OFFICE  
Assay Certificate

H. C. SMOOT  
CHEMIST AND ASSAYER  
REGISTRATION NO. 450

0.12

Pot A. S. Kesselman  
Prescott, Arizona, 10-28-22

DESCRIPTION	GOLD PER TON GROSS TROY VALUE	SILVER PER TON GROSS TROY VALUE	GOLD AND SILVER PER CENT	OTHER METALS PER CENT	VALUE
1	1.00	0.00	1.00		
2	0.00	0.10	0.00		
3	1.00	0.00	1.00		
4	0.00	0.10	0.00		
5	0.00	0.10	0.00		
6	0.00	0.10	0.00		
7	0.00	0.00	0.00		
8	0.00	0.00	0.00		

N. Y. MARKET VALUES

GOLD PER OZ FINE	SILVER PER OZ FINE	COPPER PER LB.	LEAD PER LB.	ZINC PER LB.
20.00				8.00

*M. G. Grant*