



## **CONTACT INFORMATION**

Mining Records Curator  
Arizona Geological Survey  
1520 West Adams St.  
Phoenix, AZ 85007  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LOGAN PATENTED

ALTERNATE NAMES:

PATENTED CLAIMS MS 2730

YAVAPAI COUNTY MILS NUMBER: 194

LOCATION: TOWNSHIP 14 N RANGE 4 W SECTION 24 QUARTER NW  
LATITUDE: N 34DEG 32MIN 54SEC LONGITUDE: W 112DEG 37MIN 55SEC  
TOPO MAP NAME: SKULL VALLEY - 7.5 MIN

CURRENT STATUS: DEVEL DEPOSIT

COMMODITY:

COPPER

GOLD

SILVER

BIBLIOGRAPHY:

USGS SKULL VALLEY QUAD

ADMMR LOGAN PATENTED MINE FILE

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Logan Mine,  
Mine Plateau Claims, & Tip & Tip Ext, and Date June 20, 1966  
C & S Claims  
District Copper Basin or Thumb Butte - Yavapai Co Engineer F. T. Johnson  
Subject: Mine visit with Homer R. Schell, 946 West Sahuaro Drive, Phoenix

Location: The claims are located in Secs. 12, 24 & 25, T 14 N., R 4 W. The Logan group of three claims are patented. The remaining 26 are unpatented and of questionable validity. They are reached by taking the Iron Springs Road from Skull Valley - at 3 and 1/2 miles take a road to the east through Johnson's ranch. The claims are about 1 and 1/2 miles from the ranch - a 4-wheel drive vehicle is necessary for the last half mile.

Ownership: Some of the claims were leased to the C.L. & S. Mining Co., 946 W. Sahuaro Dr., Phoenix. Homer R. Schell, President, Mrs. Schell, Secretary. Robert Coonrod, a Mr. Oliver Smith of Williams and a Mr. Little leased 13 claims to the above company. These were Plateau 1, 2, & 3, Plateau Ext. 1, 2, & 3, Tip 1, 2, & 3 and Tip Ext. 1, 2, and 3. (Location work or corner stakes were not seen on these claims). Coonrod and Smith leased to the above company the C & S claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11, besides the 3 patented Logan claims. Coonrod and Schell leased the Coonrod & Schell claims 1 & 2 to the above company. It seems doubtful that any of the claims other than the Logan claims are valid.

Mineral: Copper

Geology: - general. Pre-Cambrian schist in places silicified is the predominant formation in the area. The schist has been intruded by diabase and it is along the contacts that a few tunnels and cuts and a reportedly 400' shaft was sunk. All this work is on the Logan claims. It is also reported that at the bottom of the shaft drifts extend E and W for 123' and 153'. The area was first prospected in the early 1900s. Some ore was shipped that is reported to have assayed 14% Cu besides fair Au and Ag values. A short drift above the Logan shaft showed some copper oxide mineralization over a width of about 6 feet. This was of an estimated grade of 2-2.5% Cu. All the work is confined to this area that would not exceed 15 acres in extent. Some roads were built, but they are impassable for other than a 4-wheel drive vehicle. These did not disclose any oxidized or leached zones for possible prospecting sites.

# WESTERN EQUITIES, INC.

BOX 95 / GRAND CANYON, ARIZONA / TELEPHONE 633-8423

May 7, 1964

TO: M. L. Pate

FROM: Walter Gould

RE: Bob Coonrod of Skull Valley - Plateau Claims and Logan Mine

Recommendations: Because of the favorable geologic setting, it is recommended that one diamond drill hole should be drilled across the mineralized area at a steep angle. The hole should be positioned to cross the middle of the mineralized area at the zone of secondary enrichment, which should be at 400 feet. Direction angle and depth will be given after engineering data is available.

After the assay results of the hole are considered, the entire property will be re-evaluated.

M. L. Pate inspected this property on March 21st and wrote a report. This report is made as a result of an investigation made on April 16, 27, 28 and 30, 1964.

There are 12 claims in the Plateau group and they are owned by Coonrod and Smith. They are located in Sections 13, T 14 N, R 4 W and sections 30 and 31, T 14 N, R 3 W., in the Iron Springs Quadrangle, Yavapai County, Arizona.

The Logan Claims are located in Section 24, T 14 N, R 4 W.

The Logan Mine located at the north end of a small mineralized hill, consists of a shaft reported to be 400 feet deep which bottomed at the water table. There is a drift 153 feet long extending east and one 123 feet long extending west from the bottom of the shaft. All these workings are inaccessible. There are several pits and drifts near the shaft.

The area was mined for gold in the early 1900's and at this time the copper values were disregarded. The grade of copper shipped from the dump was reported to have been 14% with substantial values of gold and silver.

The geologic history of the area is as follows:

Porphyry dikes a few feet thick have intruded the schist country rock, along the N 14° E nearly vertical plane of schistosity. This intrusion was followed by mineralizing solutions along the same channels. The resulting mineralization has silicified an area from a few feet to more than 100 feet on each side of the porphyry. The mineralized area appears to be linear with the exception of a few tens of feet offsets probably caused by faulting. The porphyry apparently did not form a continuous dike but was a series of intrusions along a plane of weakness. After erosion the silicified areas, being more resistant to erosion, remain as hills that range in height from about 50 to 200 feet.

The entire area is a pennant roof with quartz diorite the intrusive rock and schist being the intruded rock. The deposit is classified as a type of contact metasomatic replacement.

The mine area has several bleached zones from 2 to 5 feet wide that parallel the plane of schistosity. There is a very small amount of green copper oxide minerals, although boxworks are present on the surface. There is a large area of red stain, which is caused by the weathering of the mineralized rock, found over the silicified hills.

A series of channel samples were cut in a canyon that crossed the mineralized area at the Logan shaft. This area was sampled because the rock was altered less here, than any other surface location. For assays of this area see the enclosed map.

	<u>Cu %.</u>	<u>Oz. Au/ton</u>	<u>Oz. Ag/ton</u>
A sample picked from the dump assayed	.32	tr.	tr.
Hanging wall from upper drift assayed	.32	.003	tr.
Silicified rock from top of hill	.03	tr.	tr.

Walter Gould

WG:mp  
 cc: C. E. Prior  
 H. H. Leigh

**INSPIRATION CONSOLIDATED COPPER CO.  
SMELTING DEPARTMENT**

Serial No. 4919

DATE November 27, 1964

BOUGHT OF C.L. and S. Mining Company

Date Received November 18, 1964

Street 946 W. Sahara Drive City Phoenix, Arizona

Initial	DAW Number	WET WEIGHT	Moisture %	DRY WEIGHT	N. Y. QUOTATIONS
ICC	924	25,480	4.10	24,435	Copper (per lb.) <u>33.6574</u> Less <u>4.854</u> = <u>28.8034</u> Silver (per oz.) <u>125.9664</u> Gold (per oz.)

ASSAY and ANALYSES	Copper %	Silver %	Gold Oz	Silica %	Alumina %	Iron %	Lime %	Sulphur %
	2.25	1.56	Ti.	68.2	7.2	7.2	2.2	.2

PAYMENTS PER TON						DEBITS	CREDITS	Valuation For Freight
Copper	45.00	Lbs per ton, less 10 <sup>#</sup>	35.00	Lbs. at	28.8274	per Lb.	\$ 10.09	\$
Silver	1.56	Ozs. per ton, less 5	1.48	Ozs. at	125.9664	per Oz.	1.91	
Gold		Ozs. per ton, less		Ozs. at		per Oz.		
Excess Metal Values								
Treatment Charge						6.00		
<b>TOTALS</b>						6.00	12.00	
Net Value per ton							6.00	

Net Value for Freight Charges, per wet ton \$

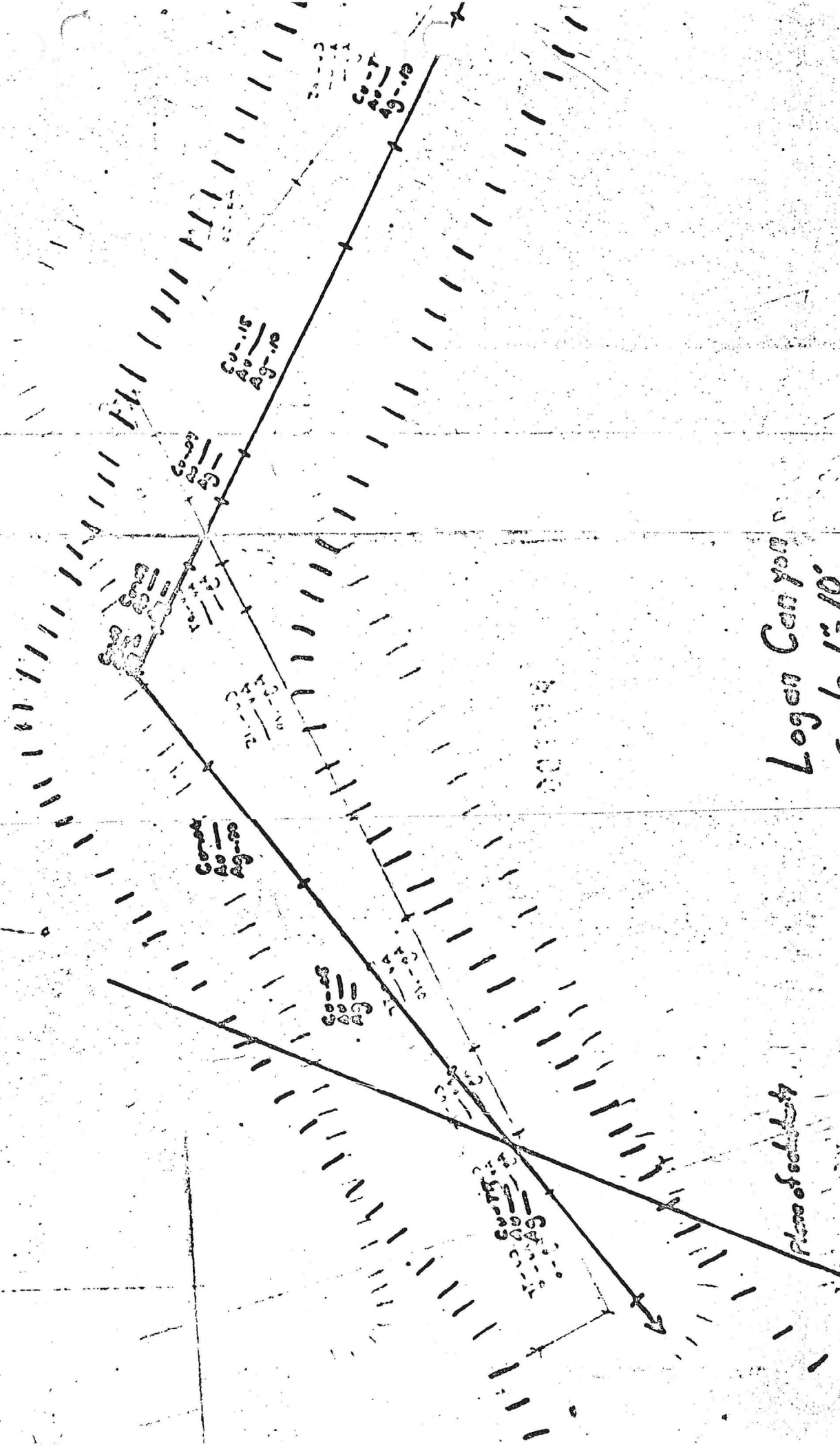
Royalty to be paid to	12.2175	Dry tons at \$ 6.00	\$ 73.31
Sampling		tons at	
Freight			
Trucking			
AMOUNT DUE SHIPPER			73.31
Less % Royalty			
<b>NET AMOUNT DUE SHIPPER</b>			<b>73.31</b>

Correct [Signature]

Approved [Signature]

Logan shaft

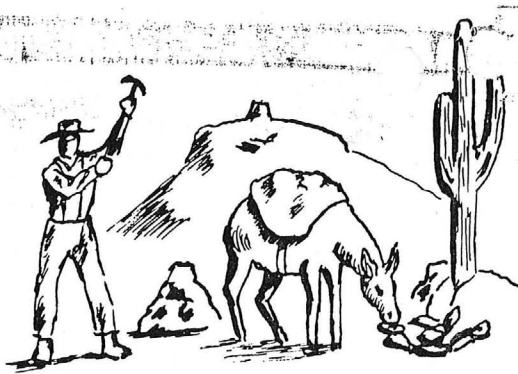
Logan shaft



Logan Canyon  
1870

Place of section

PHOENIX ADDRESS:  
946 W. SAHUARO DR.  
PHONE 943-7395  
PHOENIX, ARIZONA 85029



March 9, 1965

## C. L. & S. MINING CO.

Dr. Paul Gillmore  
Iron King Mine  
P. O. Box 14  
Humboldt, Arizona

Dear Dr. Gillmore:

Am sending you several letters and shipping ticket which my husband, Homer, said he would send you. Please return them when you are through with them.

The letter from the Bureau of Mines is in regards to the ore taken from the shaft which didn't assay out very good so we sent some off to Denver. The ore was gray and we were told it might be moly. but this is the letter we received back.

The ore sent off to the smelter according to the shipping ticket is from the cut up above and behind the shaft and from over on the far side of the claims.

The letter from Western Equities is referring to the Skull Valley property which you went over but Bob Coonrod does not own the Logan claims (3) mentioned and they are patented land, I understand. The Plateau claims are leased to the Coonrod-Smith Mining Co. and some are called the Coonrod-Smith Mining Co. claims. There are supposed to be 26 claims in all.

If we can be of help to you in the future, please contact us at the above address by mail or phone.

Very truly yours,

C. L. & S. MINING COMPANY

*Peggy Schell*

(Mrs.) Margaret D. Schell, Sect'y.

MS:ms  
Enc. 3