

Mining District: HOLY CROSS
(Gold, Silver, Lead)

T. 14-15 N., R. 29-30 E.
Churchill County, Nevada
AMS Reno Map Sheet 1971

GENERAL BACKGROUND

The Holy Cross district encompasses an area in and around the Terrill Mountains and Barnett Hills. The Terrill Mountain portion of the district is outside the planning unit. Recorded production for the district from 1934 to 1955 totaled \$72,262. Most of the production came from properties in the Terrill Mountains; probably less than \$1,000 is attributable to mines within the planning unit.

The Cinnabar Hill Mine is located in sections 15, 16, 21, and 22, T. 15 N., R. 30 E. This property was discovered in 1937 or 1938, and a small amount of mercury was produced in 1940. The property is developed by several shafts, adits and prospect pits.

The Bimetal group of claims is located about 1 mile south to the Cinnabar Hill Mine. The property was discovered in 1932. The only production has been several tons of ore averaging about \$40 per ton in gold.

GEOLOGICAL AND TECHNICAL DATA

The Barnett Hills include a Cretaceous granodiorite body that is capped by Tertiary rhyolitic tuffs. The tuffs are unconformably overlain by dacite flows, which in turn are overlain by basalt.

Ore values at the Cinnabar Hill Mine came from shear zones in altered rhyolite tuffs. Besides cinnabar, iron and manganese oxides are present in the shear zones. Recent sampling indicates up to 140 ppm mercury. No gold or silver was detected in any of the samples (3).

The Bimetal group of claims are located on quartz veins in granodiorite. The ore contained free gold alloyed with some silver. Samples from some of the veins contained .44 to 5.81 ppm gold and 10 to 30 ppm silver; .96-2.15 ppm gold and 10-15 ppm silver; and 112 ppm gold and 20 ppm silver. Altered granodiorite adjacent to the quartz veins contained from 0.0 to .66 ppm gold and 1 to 10 ppm silver (3).

POTENTIAL FOR DEVELOPMENT

At gold prices of \$180 an ounce, vein samples indicate values of \$2.30 to \$30.33 per ton (112 ppm gold sample not included). Silver values ranged from \$0.11 to \$3.48 per ton (at \$4 per ounce).

In light of the fact that known veins are for the most part less than 2 feet thick, considerable dilution would occur if they were mined. Unless additional development discovered higher ore values or thicker veins it is unlikely that any production will occur in the near future from the Bimetal group of claims.

The potential for substantial mercury production from the Cinnabar Hill Mine is considered to be remote.

COMPANIES AND CLAIMANTS ACTIVE IN AREA

Unknown.

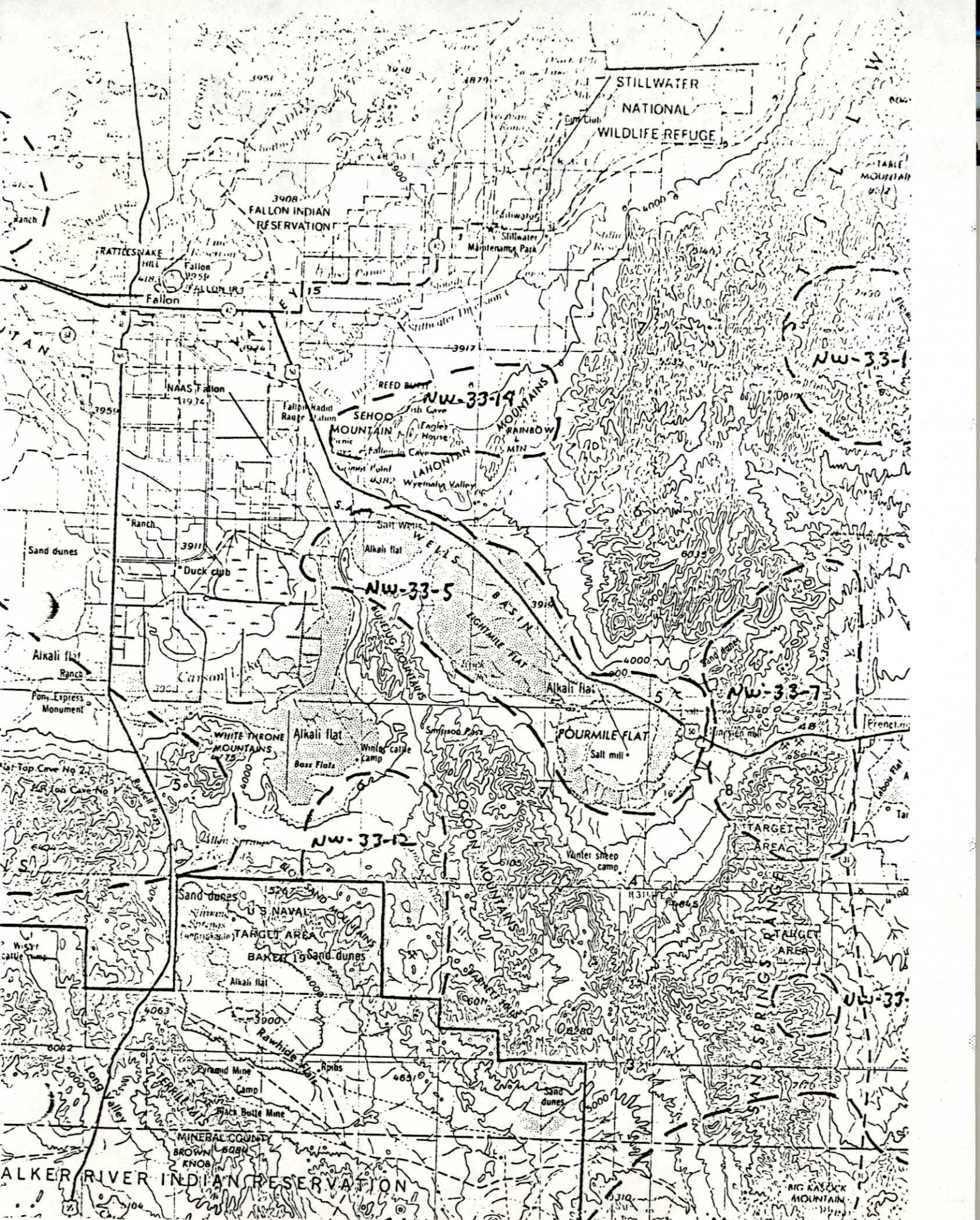
SELECTED REFERENCES

1. Bailey and Phoenix, 1944, Quicksilver deposits in Nevada.
2. Vanderburg, 1940, Reconnaissance of mining districts in Churchill County, Nevada.
3. Willden and Speed, 1974, Geology and mineral deposits of Churchill County, Nevada.

FIELD EXAMINATION

Bennett, 1974

Bennett, 1975



Taken From:

Mineral Resources Inventory and Analysis

of the

Clan Alpine Planning Unit

Carson City District

by

R. E. Bennett and C. L. Hoke

1975

*for complete introduction
see Churchill Co.-general
files Item 17*