

0760 0022

Lucky Four

— UNNAMED DIST

Mineral County  
General

Item 42

The Lucky Four property is east of Walker Lake in the Gillis  
Range, about 16 miles southeast of Schurs and 5 miles east of Gillis  
siding, Hawthorne quadrangle. When examined in 1948, workings on

619

the 4 claims consisted of 2 shafts 15 and 30 feet deep, 2 short adits 180 and 90 feet long, and several pits and trenches. In 1943 and 1944, 690 tons of sorted ore containing 760 units of  $\text{WO}_3$  were shipped to Metals Reserve Co. in Salt Lake City.

Scheelite was found in small pods of garnet-epidote tactite cut by thin quartz veins. Massive garnet tactite is more abundant, but it contains no scheelite. The tactite occurs in dark limestone at or near the contact with diorite. The main mineralization adjoins a portion of the contact where diorite cuts across the strike of the limestone.



Memorandum on

(Gen ty Mine)

The

U. S. GEOLOGICAL SURVEY  
**CONFIDENTIAL**  
Not for Public Inspection or Quotation

Lucky Four Tungsten Property

Mineral County, Nevada

Charles W. Chesterman

April 1943

Abstract

The Lucky Four Property is located some 19 miles southeasterly of Schurz, Mineral County, Nevada. A graded dirt road leads from Schurz to Gillis Switch on the Southern Pacific Railroad, and from Gillis Switch there is a good dirt road to the Lucky Four Property. A compass and pace traverse was made of the mine and surface workings. The tantalite zones are near the limestone-diorite contacts and also occur as lenses within the limestone. Surface indications point toward a small reserve of tungsten.

Location

The Lucky Four Property is located in Mineral County in the unknown mining district about 16 miles southeast of Schurz, Nevada, and about 5 miles in an easterly direction from the Gillis Switch on the Southern Pacific Railroad.

A good graded dirt road leads to Gillis Switch from Schurz, and another dirt road leads from Gillis Switch to the Lucky Four Property.

Ownership

There are four mining claims to the Lucky Four property; the Lucky Four #1, Lucky Four #2, Lucky Four #3, and the Lucky Four #4. The said claims are owned by George and Norma Hill of Schurz, William Raines of Schurz, Albert and Mabel Fick, William I. Jane, and Irl C. and Wilda Nicolay, and is under lease and option to Mr. S. George Baker of 402 Cheney Street, Reno, Nevada.



### Production

No information could be obtained concerning production prior to present operation. However, the present operator has made two shipments of ore to the U. S. Vanadium Company in Salt Lake City, Utah, and the returns are as follows:

28632 pounds @ 1.90%  $\text{WO}_3$  --- \$57.00/ton

62430 pounds @ 1.05%  $\text{WO}_3$  --- \$31.50/ton

### Mine Workings and Equipment

The mine workings consist of two shallow shafts, ( 15 and 30 feet in depth ), several hundred feet of tunnel, and a number of shallow trenches and pits. There is practically no equipment. All ore is hoisted from the present site of operations by a one-man windlass. All mining, such as drilling and mucking, is done entirely by hand.

A 12-ton truck is used to transport the ore from the mine to the Gillis Switch.

### Geology

The claims comprising the Lucky Four Property lie in a belt of dark limestone and schist which has been intruded at various places by aplite and diorite porphyry. The limestone and associated schists strike in a northwesterly direction and dip in general toward the east. From the farthest north workings to the westernmost shaft, the diorite-limestone contact more or less parallels the strike of the bedding. However, south of the westernmost shaft, the diorite-limestone contact swings eastward to such an extent that the limestone and accompanying taconite and schist have been cut off. Portions of the taconite have



been badly sheared and leached.

#### Scheelite Deposits

The scheelite deposits are limited to the tactite areas of garnet and epidote which have been cut by thin veins of quartz. The tactite areas, composed of massive brown garnet are void of scheelite and a greater portion of the tactite in many of the trenches and pits examined are of the massive garnet type.

The present operator is actively engaged in removing ore from a new face near the southwest corner of the easternmost shaft. All of the surface and underground workings were examined with the ultra violet lamp, and only three workings ( indicated on the accompanying map ), which showed more than a few scattered crystals of scheelite were noted.

#### Reserves

The unblocked reserves of tungsten ore are more or less limited to the site of present operations. However, not enough work has been done to warrant any form of statement. To date, two shipments have been made, and both these came from Dump "I". By sorting the ore the operator was able to obtain ore that would contain more than 1%  $WO_3$  and less than 2%  $WO_3$ . There are remaining in the same dump at least 200 tons of ore with an average grade of .5%  $WO_3$ . There are 15 tons of 2% ore in the ore bin and the miers are taking out from the present face 5 tons @ 2%  $WO_3$  every day.

#### General Comments

There is a chance for the Lucky Four Property to produce a small tonnage at 1 to 2%  $WO_3$  ore. However, more trenching and sample of the tactite zones



within the limestone toward the north and south might reveal other scheelite-bearing tactite suitable for mining.

T. B. Nolan (3)

S. G. Lasky

D. M. Lemmon

G. L. Allen

File

Respectfully Submitted

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U. S. Geological Survey

Mill City, Nevada

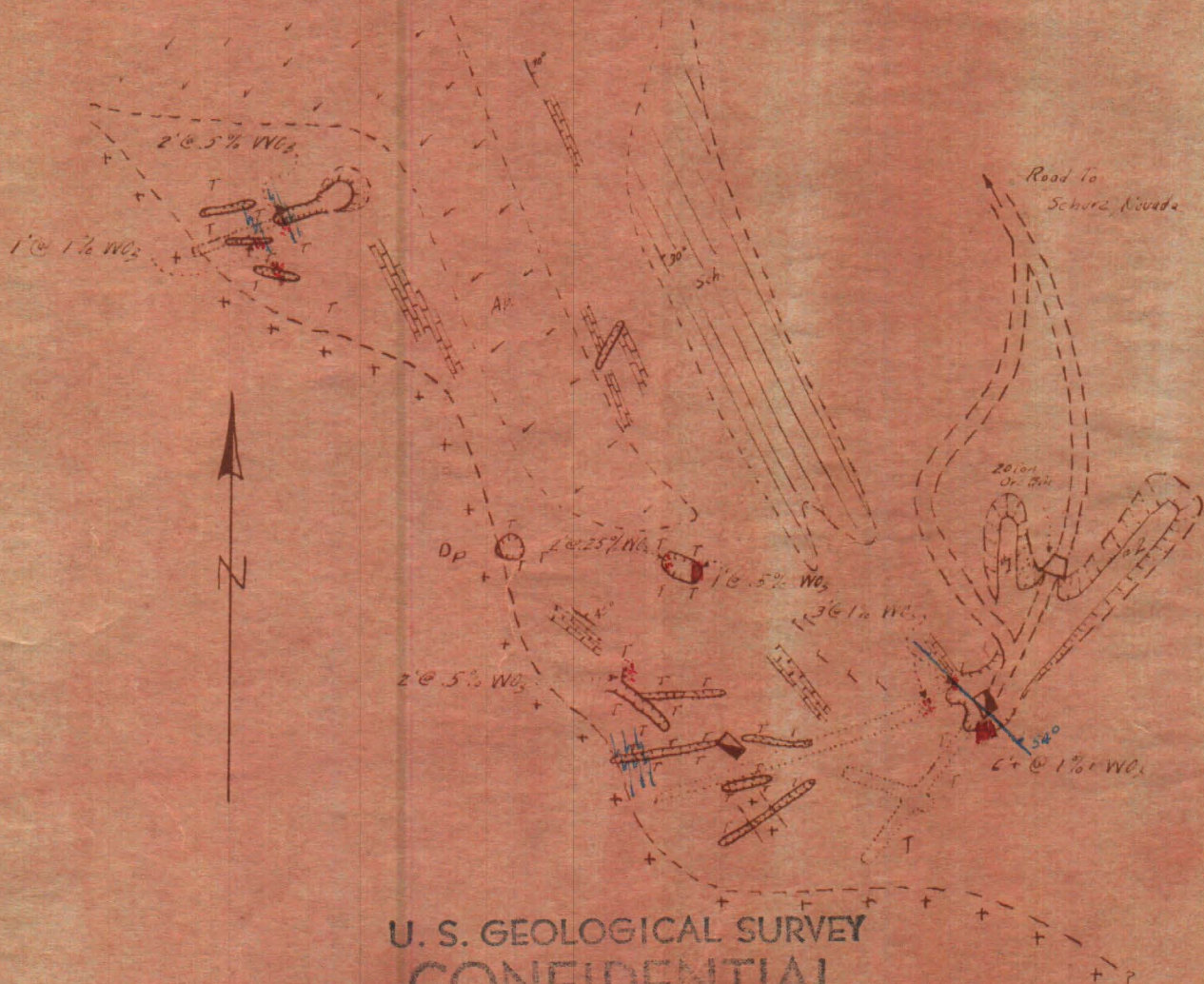
April, 1943



SKETCH MAP  
of the  
GEOLOGY AND MINE WORKINGS ON THE  
LUCKY FOUR TUNGSTEN PROPERTY

Mineral County, Nevada  
C. W. Chesterman

April 23-24, 1943  
U. S. Geological Survey



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Explanation

