

GEOLOGY OF STARKS LINE AND VICINITY

Max L. Troyer
Preliminary Report

Location:

The mine is located in the Laramie Range, Albany County, Wyoming, and the mapped area includes all or portions of sections 31, 32, 33, township 17 north, range 71 west and sections 4, 5, 6, township 16 north, range 71 west.

History:

Between 1900 and 1910^{File} a shaft 360 feet deep with ~~three~~ levels was opened and some copper produced. The mine was then abandoned until 1942 when Harrison S. Cobb and E. P. Baker opened the mine as a tungsten prospect with the chief ore being scheelite. A few shipments of ore were made and these tested from 0.2% to 0.6% WO₃. The mine was closed again early in 1944 and nothing further has been done.

Work accomplished by M. L. Troyer with W. R. Keefer as field assistant in the summer of 1946:

Slightly over one half a square mile in the immediate vicinity of the mine was mapped with plane table and alidade on the scale of 200 feet to an inch. A larger area totaling 2 to 3 square miles surrounding the above was mapped in aerial photographs whose scale ~~was~~ ^{were} 1 to 20,000.

Economic Importance:

If the price of tungsten ores reached a high slightly above that during the war this deposit could probably be worked profitably. There is also a possibility that copper could be obtained as a by-product. The mine area is located in a large anorthosite mass which may in the future become an ore of aluminum.

Shipments of ore to Boulder Tungsten Mills for sampling.

date	Weight	Type of ore	per cent of WO_3
12/4/43	10650	Crude	.44%
12/4/43	16660	Crude	.49%
12/8/43	10250	Coarse	.44%
12/8/43	14940	Coarse	.49%
12/10/43	11980	finer	.44%

ANALYSES.

4/13/43	.25 WO_3 .	Hole south of shaft/
4/13/43	Trace of Au, Ag, MoO_3 , & .28 Cu	from dump
5/8/43	.20 WO_3 , .31 Cu,	- tailings
7/3/43	.53 WO_3 ,	first lot from mine/
12/23/43	Coarse .49 WO_3 , Fines .44 WO_3	
4/10/43	8997 lbs. - / .63% WO_3	

Certificate of Spectrographic Analysis.
 made for Mining Div. of Boulder Tungsten Mills
 mill lot 360, Strong Mine
 by Hill & Jude, 1219 Spruce St. Boulder, Colorado

Silicon	-----	over 10%
Iron	-----	" 10%
Aluminum	-----	" 10%
Potassium	-----	1 to 10%
Calcium	-----	1%
Magnesium	-----	1%
Tungsten	-----	.1 to 1%
Sodium	-----	.1%
Manganese	-----	.1%

Traces of
 Molybdenum, Copper, Chromium, Barium, Vanadium, Titanium,
 Zinc, Nickel, Lead, Silver, Cobalt.

The following is a proof of a news item which was published in the Mining Journal about oct/ 1943.

The old Strong mine in the Horse Creek district of Albany County, Wyoming, is reported to have been reopened by Harrison S/ Cobb, Salina Route, Boulder, Colorado, and E/P/ Baker, also of Boulder. From 1900 to 1907 the property was developed for Copper by a group of Laramie and Boston men. Present operators are stated to have uncovered scheelite on the 350 foot level and a shipment of 100 tons is being made to Metals Reserve Company stockpile. A second scheelite deposit has been located in the Yellow Pine property near the Strong mine by Cobb and A/B/ Weldon of Boulder. In the Keystone district of the Medicine Bow mountains, some miles west of Laramie, Wyoming Cobb and Weldon, in association with John Romarine, have discovered a third deposit of scheelite in an old shaft originally sunk for copper in 1900. Development and exploratory operations are under way in all three locations. Cobb also is operating tungsten properties in Boulder County, Colorado.

1" = 30'

← S

N →

Surface

SHAFT

Main Ore shoot
So. of shaft
to 250'

Shoot appears to be 100' long
& from 3' to 5' in width
will average .45% WO₃
& less than .50% Cu

App. 30'

App 150'

50' level Timbered off

100' level

150' level

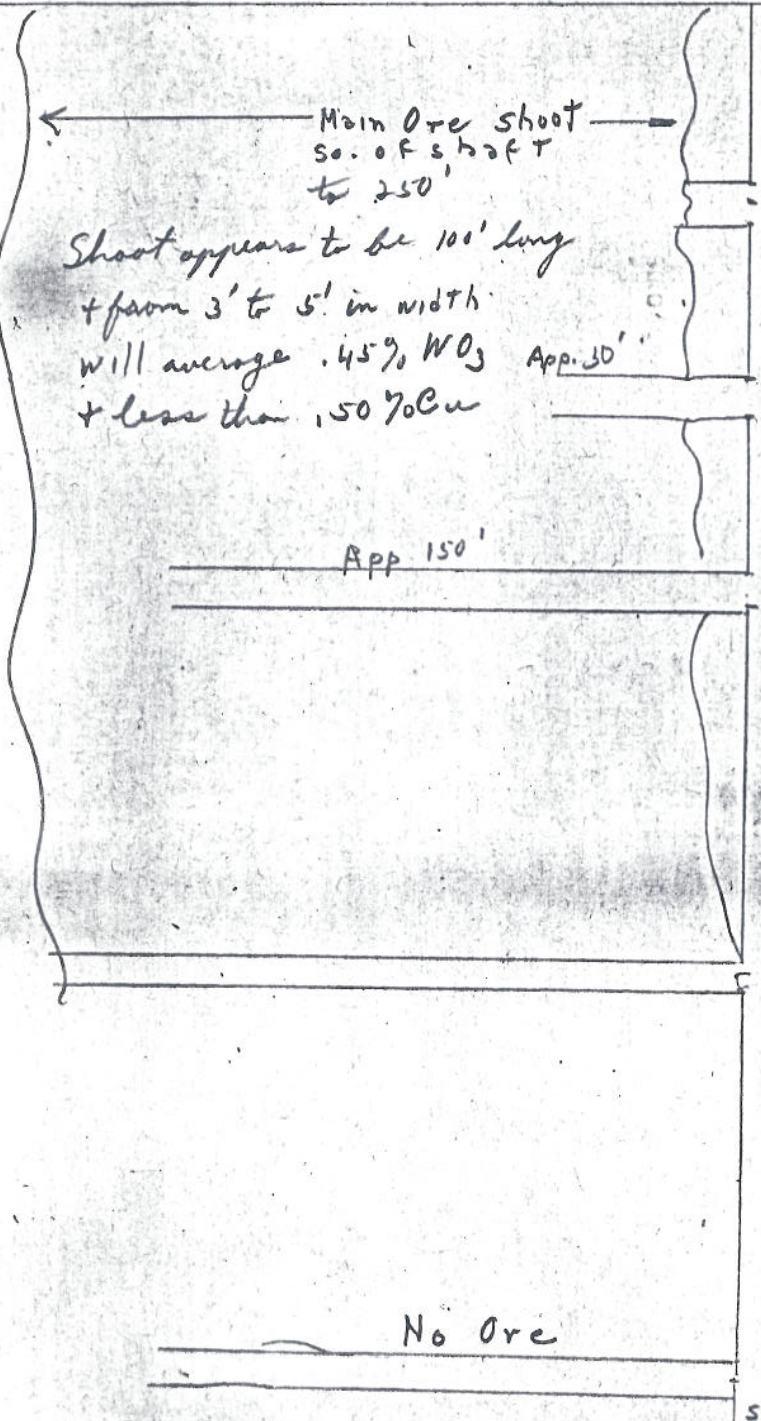
250' level (See other map of this level)

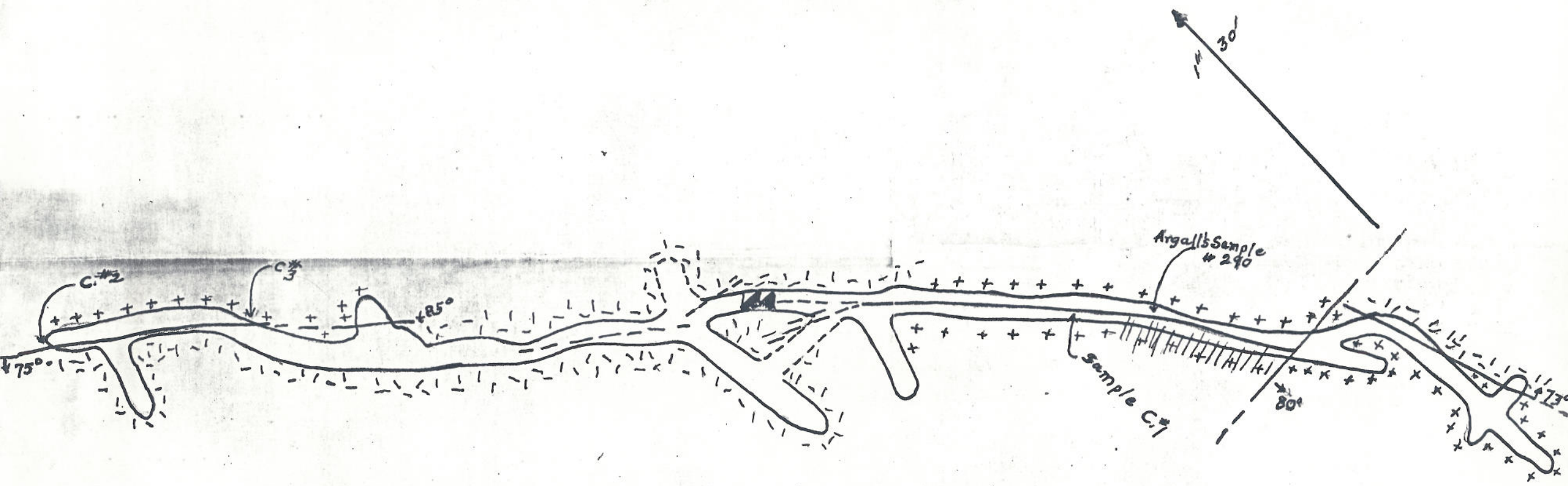
No Ore

100' x 2' Sheelite - Est at 130 Wg

350' level

Sump





250' LEVEL
 STRONG MINE
 LARAMIE WYOMING

Brunton sketch
 J. H. R. 5/27/43

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