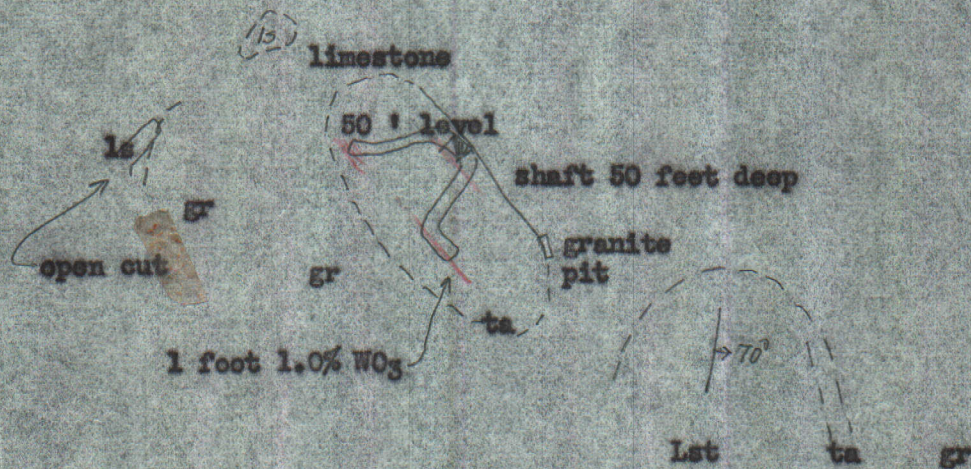


180
Item 3

Lemmon and Bateman
July 1942

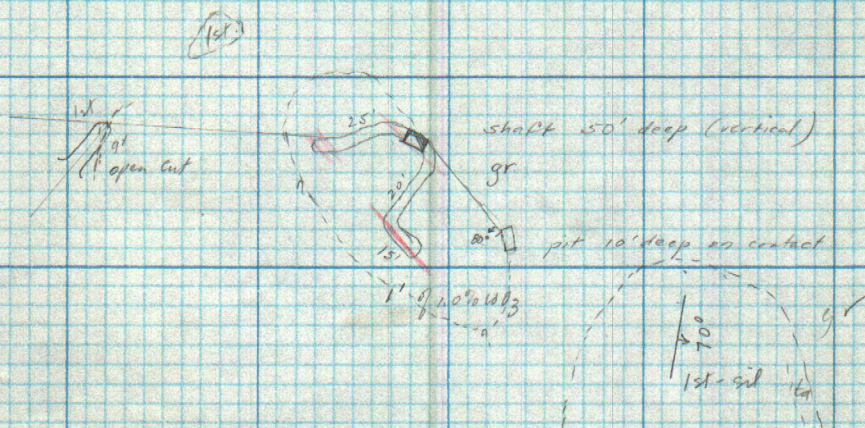


is limestone

ta tactite (in part scheelite-bearing)

Erk and Waveria (Behr, given) claims near Weeks, Nevada
 4.9 miles from Yreka highway - intersection 2.2 mi NE of Mr. Jenkins
 cabin at Weeks.

Shaft 50 feet deep. =



Lyon County

Churchill Butte — CHURCHILL DIST.

Scheelite occurs at several localities 3 to 5 miles northwest from Weeks, on Churchill Butte, T. 17 N., R. 24 E., Wabaska quadrangle. Churchill Butte is made up mostly of young, unaltered volcanic rocks, which are underlain irregularly by older volcanic rocks interbedded with a few thin layers of limestone and invaded by granite. At the B, H, & V. claims on the south side of the Butte, scheelite mineralisation is found in silicated limestone 2 to 6 feet thick near the granite contact. The bed is opened by a shallow adit. Another adit driven 50 feet deeper and 200 feet long crosses the contact but is entirely in non-calcareous meta-sedimentary rocks that contain no scheelite. The adits were driven in World War I; in 1943-44, W. J. Henley shipped 38 tons of sorted ore assaying 0.6 percent of WO₃ (23 units) to Metals Reserve Co.

At a prospect on the east slope of Churchill Butte, approximately in sec. 15, Pete Erb and Frank Warren in 1941 sank a 50-foot shaft at the contact between granite and a small limestone pendant. From the bottom of the shaft, 68 feet of crosscuts and drifts exposed 2 streaks of scheelite-bearing tuffite about 1 foot wide, estimated to contain 0.75 percent of WO_3 . About 75 tons of sorted ore were concentrated on tables in a small mill built at Weeks.

On the north side of Churchill Butte, in secs. 9 and 16, scheelite was found in 1939 on the White Cloud, Red Cloud, and Gray Cloud claims owned by Gale, Pratt, and Donders.

Coleville, California
July 20, 1942

Tungsten Prospect near Weeks, Nevada

On the morning of July 11, Bateman and I spent an hour examining a tungsten prospect near Weeks, Nevada. Weeks is a postoffice on highway U.S. 95-A between Wadsworth and Yerington on the Carson River. The prospect is reached by following the paved highway for 2.2 miles north from the railroad at Weeks, then a fair dirt road for 1.9 miles northwest.

The prospect was discovered in 1941 by Frank Warren (Bank Club, Fallon) and Pete Erb (farmer near Fallon). They built a small mill with a single table at Weeks and reportedly milled about 75 tons of ore. Mr. Jess Gear of Weeks, on whose property the mill stands, says the gross recovery was \$400 (20 units?), and the tails contained \$750 (40 units?). If these figures mean anything, the heads were about 0.8% of WO_3 .

The property was optioned to Lloyd Baker last fall, and Baker has subsequently tried to promote it in Los Angeles and in Ely, Nevada. At the time of our visit, no one was at the property, and Baker had not been in the district for some time. Most of our information was derived from Mr. Gear, who seemed well-informed.

Workings at the prospect consist of a 50-foot vertical shaft with 2 crosscuts from the bottom, the north one extending 25 feet, the south one 40 feet (see sketch). In addition, there are 2 surface pits. The shaft, located on the top of a hill, was sunk on a contact that dipped steeply southwest, and apparently followed a narrow ore streak. The best ore in the crosscuts is about a foot wide and may contain 0.75% of WO_3 . Most of the rock is barren. We did not examine the surface showings in ultraviolet light.

The surface is covered by rubble; so contacts are difficult to trace. Apparently there are several small patches of metamorphic rocks surrounded by granite. The scheelite occurs in tactite in parts of these small

masses. The metamorphic rocks, intrusive rocks, and volcanic rocks which cap the hills to the west, all weather similarly, and can be mapped only with difficulty.

If the ore in the shaft extends 100 feet along the strike and averages 2 feet in width, it will amount to 1,000 tons to a depth of 50 feet beneath the surface. The ore probably does not extend to depths sufficient to increase this tonnage materially.

A small leaser-type operation might produce a hand-sorted product that could be treated at the Toulon custom mill, which is only about 75 miles north of the prospect by surfaced highway. There is little possibility of developing enough ore on the property or in the district to justify a mill. It is reported that the Toulon plant charges \$6 a ton.

Mr. Gear knew of only 1 other tungsten prospect in the area. It is idle, and presumably smaller than the one visited.

Dwight M. Lemmon

cc Nolan (3)

June 24, 1944

Churchill Butte

E. H. & V. TUNGSTEN PROSPECT
Lyon County, Nevada

by
Paul C. Bateman

The E. H. & V. tungsten prospect, located by W. J. Henley of Virginia City, Nevada, in November 1943, is about 3 miles N. W. of Weeks, Lyon County, Nevada. The prospect is accessible from highway U. S. 95 by 2.5 miles of dirt road that joins the highway 0.7 miles north of Weeks.

Workings consist of a 200-foot haulage adit and a shorter adit 50 feet higher that has been enlarged into a stope. According to W. J. Henley, these workings were dug during World War I. Henley shipped one car of ore to the Metals Reserve Company at Salt Lake City that contained 0.6% WO_3 . The property is now idle. I visited it on June 24, 1944.

Scheelite occurs in silicated limestone at a contact between metasedimentary rocks and granite. The contact is very ragged but in general strikes N. 45° W. and dips vertically. The bedding in the metasediments is unrecognizable because of the alteration of the rocks. There is a slight suggestion, however, that the beds strike N. W. and dip $35-45^\circ$ S. W. into the contact.

I saw no scheelite in the lower adit, although it crosses the contact. The metasediments in the adit are non-calcareous. The upper adit explores ore in a zone 2 to 6 feet thick that lies parallel to the plane of the supposed bedding. The reserves appear to be small.

The grade of the unsorted ore is too low for profitable mining. The ore shipped by Henley, containing 0.6% WO_3 ,

probably represents the grade of ore that can be selectively mined and sorted.

Coleville, California
July 20, 1942

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Dwight E. Lonsom

cc Nolan (3)

Coleville, California

July 20, 1942

Mr. W. L. Trent
Box 1110, Ely
Nevada

Dear Bill,

For your information I enclose a memo on the tungsten prospect near Weeks. The memo, of course, is confidential. Looks as if your \$500 might be out of reach for some time to come. Although I did not talk with the owners, it appears doubtful if Baker has kept up his payments on the property.

Best regards,

We leave for Fresno County in a couple of days, and will be in the park from July 26-August 9 (address c/o Superintendent, Yosemite National Park, California).