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319 Item 41

U. S. Geological Survey
Randsburg, California
September 6, 1943

MEMORANDUM

on the

KELLER TUNGSTEN PROPERTY, WASHOE COUNTY, NEVADA

by

C. W. Chesterman

Location:

The Keller tungsten property is in the Virginia Mountains, Washoe County, Nevada about 20 miles northeast of Sparks, Nevada. This property can best be reached by traveling 18 miles northeast along the Pyramid Lake highway from Sparks to a sign which reads "Wilcox". Turn right at this sign and drive 7 miles southeast to where the road crosses Cottonwood Creek. From the creek crossing drive approximately 2 miles east to the western end of the property. All roads are ungraded excepting the Pyramid Lake highway.

Ownership:

The Keller tungsten property, comprising 6 unpatented mining claims, are owned by Leo Keller and John Stuart of Sparks, Nevada. The owners have exposed the scheelite-bearing rock in various places by cuts and trenches.

Production:

No tungsten concentrates have been produced from this property. Approximately 20 tons of 1% ore are stockpiled on the dump of an open cut near the western end of the property.

Geology:

The property is underlain by a granitic intrusive which is composed of diorite and monzonite. This intrusive body encloses numerous small, pod-shaped bodies of metasedimentary rocks which include schist, hornfels, and tactite. The general trend of these meta-sedimentary bodies is roughly parallel to the general strike of the schist and hornfels; N 65 to 85° W. The dip is from 60 to 65° N. E.

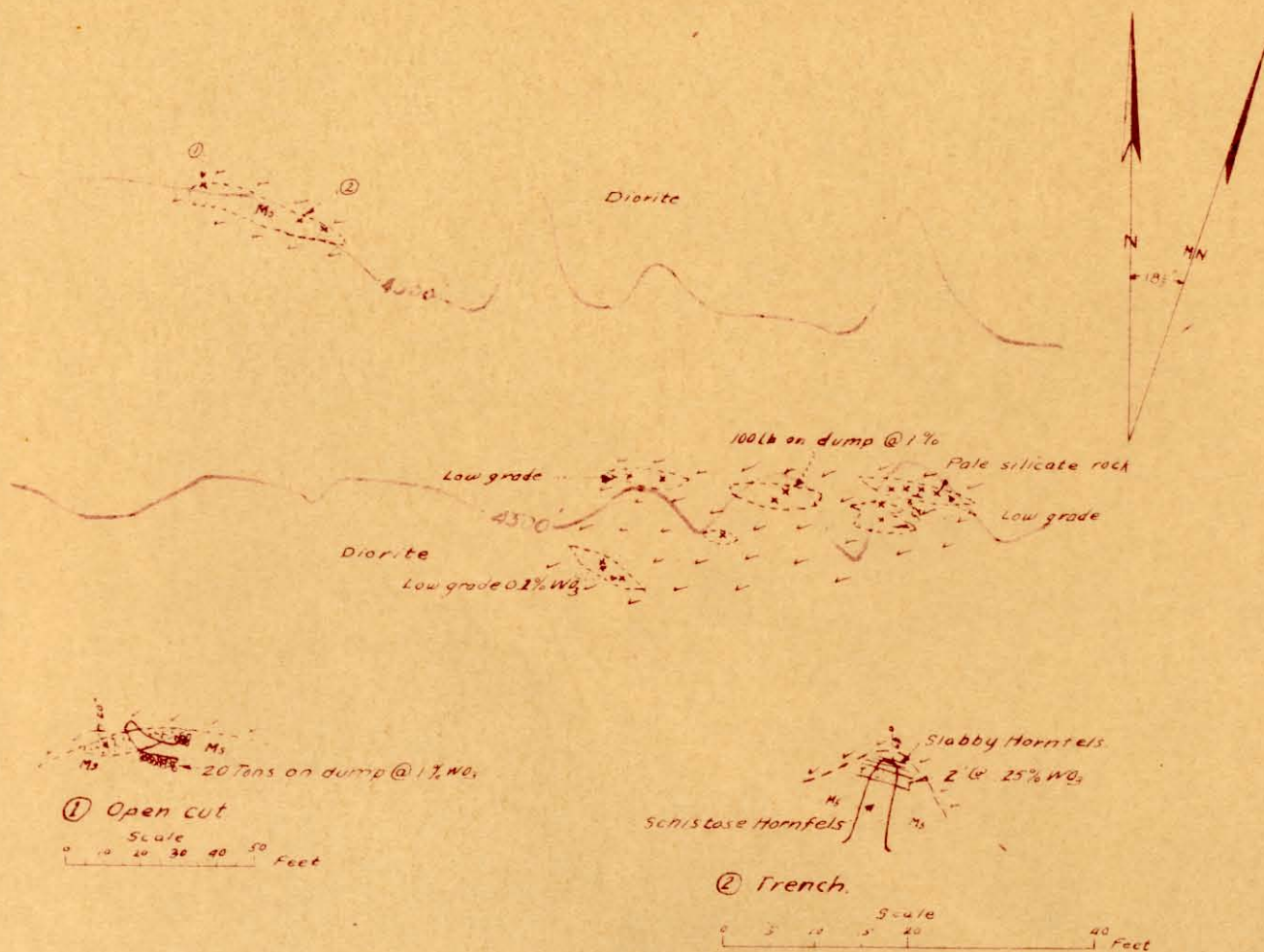
Scheelite Deposits:

Scheelite mineralization is limited to the tactitic portions of the meta-sedimentary rocks. Near the western end of the property there are two small bodies of hornfels and schist that include small amounts of tactite. Similar bodies can be found a few thousand feet southeast. It is not likely that these bodies including the tactite will go to any depth. They are surrounded completely by the intrusive and the contact everywhere observed is relatively steep.

Reserves:

Aside from the 20 tons of 1% ore stockpiled at the western end of the property, there are no reserves of tungsten ore on this property.

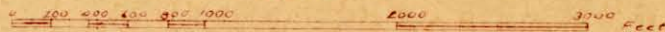
The cut from which the twenty ton lot was mined has been completely mined out and the chances for small production from the other cuts and trenches are none to encouraging.



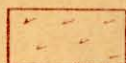
GEOLOGIC SKETCH MAP
of the
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C.W. CHESTERMAN U.S. GEOLOGICAL SURVEY
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Scale

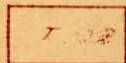


EXPLANATION



Diorite

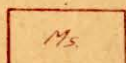
----- Contact approximate



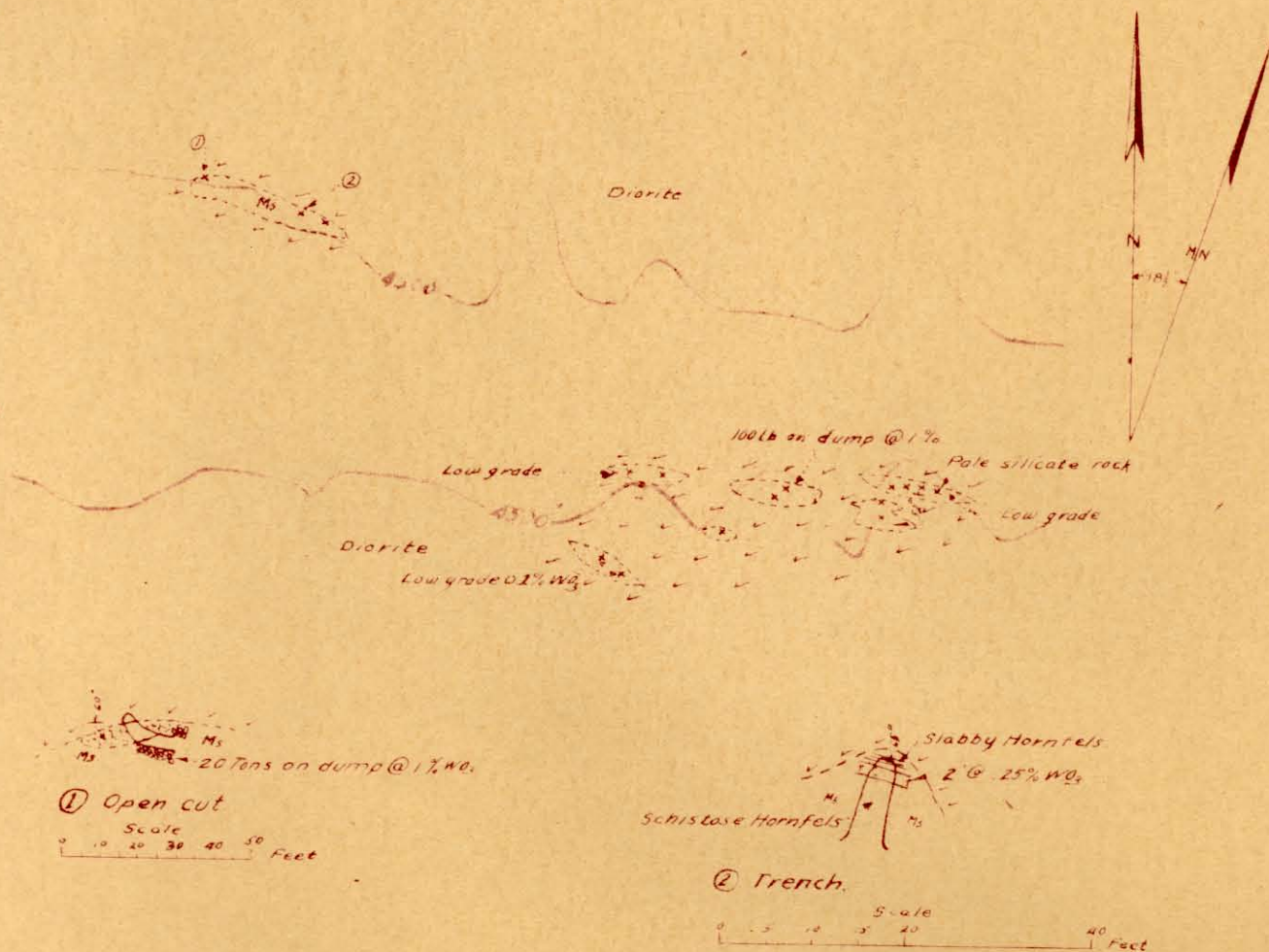
Tactite Concentration of dots shows approximate grade in ore between 0.0 and 1.0% of WO₃



Pits, trenches, and cuts

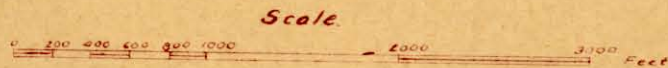


Metasedimentary rocks including schist and hornfels



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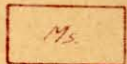
----- Contact approximate



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Pits, trenches, and cuts



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