Sally Rand probably
= Black Horse prop.
described Apr., 1943.
by Chesterman.

ESMERALDA CO.

(84)
Wan 14

Palo Alto, California
June 9, 1941

Tungsten Deposits east of Basalt, Mineral County, Nevada

The E. L. Cord mining interests optioned these claims in the winter of 1940-41, did some work, took samples, and decided that the property was worthless "unless the price of tungsten exceeds $100 a unit". Mr. Sweet has offered us all the maps, reports, and assay data, and I will plan to get them as soon as possible.

Cord also optioned some scheelite prospects near Luning (on the old Rawhide road), but also found them to be without merit.

Dwight M. Lemmon

(Property (Black Horse) drilled by
Union Carbide ~ 1971 - dropped)

(84)

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Dwight M. Lemmon

Shooting Star mine
Item 14 (84)

Comstock Claims

There are six claims in this groupe and they are located in Esmeralda County, Nevada about seven miles from Basalt, Easterly and lay about one mile from the Highway and seven miles from water. Water can be piped from Basalt, and is owned by the State. Comstock No 1 has two well defined veins one runs in a South Easterly and North Westerly direction and the ~~other~~ one in South Westerly and North Easterly direction, they form a junction. On Comstock No 2 that is up next to the contact there are two veins, one runs almost due East and West and the other one North East and South West This vein has a face of ore twenty feet wide that we estimate will go [illegible] per cent [illegible]. This showing is ready for a mill. The other four claims are covered with wash. They are all together and the work is done and monumented and on record and there is no contention regarding any of them Mr R.D. Somerville is home at Basalt on Sundays as he works at the Feldspar Consolidated

Mr Somerville's address is

R.D. Somerville
Mt. Montgomery
Nevada

MEMORANDUM

THE GOLDFIELD CONSOLIDATED MINES COMPANY

SAN FRANCISCO, CALIFORNIA

SUBJECT SALLY RAND TUNGSTEN, Mineral County Nevada DATE Sept. 20, 1940

TO Mr. Julian

FROM H. N. Witt

Herewith is Terry's memorandum report on this property, together with results of assaying by Hanks. It is apparent from these assays that much of the material which the owner believes to be scheelite is probably Powellite, and that he is probably in for a rude awakening if he attempts to make shipments. The property is obviously of no interest.

H. N. W.

MEMORANDUM

THE GOLDFIELD CONSOLIDATED MINES COMPANY

SAN FRANCISCO, CALIFORNIA

SUBJECT SALLY RAND TUNGSTEN GROUP
Mineral County, Nevada

DATE September 4, 1940

TO Mr. Witt

FROM O. W. Terry

The essential features are as follows:

PROPERTY consists of 5 claims, Sally Rand 1 - 5, belonging to H. L. Smith, Mt. Montgomery, Nev. Entirely undeveloped with exception of a 25 foot shaft and a cut 30 feet in length on No. 3 claim, near the center, and a shallow cut near west endline, same claim. No equipment on the property.

LOCATED 1/2 mile N. of Coaldale - Bishop Highway, 12 miles from Coaldale (R.R.), 42 miles from Mina, Nev., and 64 miles from Bishop, California. No timber or water. Fresh water for mine & camp use may be had from Candelaria pipeline, 6 miles west; mill water and mill site possible 6 miles east, at marsh in valley. Mild climate in winter.

GEOLOGY One or more, nearly vertical garnet and epidote veins traversing a series of dense, green silicified lime which strikes N 72° E and dips 30°-40° S. Immediately below the lime formation is a series of conformable schists, intruded by a granite laccolith about 1,000 feet north of the garnet vein. Several splits in the vein are indicated, and parallel veins are claimed, but were not observed.

THE VEIN is a massive body showing as nearly vertical where exposed to any depth. At the shaft, which is at the base of the hill it appears as nearly pure garnet about 30 ft. wide, striking N 70 E. At this point, scheelite was noted with a rich streak 8 to 16 inches wide along the north wall, and a more scattered occurrence across the rest of the vein. Farther west (250 ft.) numerous tight seams of epidote occur parallel to the vein structure. The scheelite here is very fine and probably too low grade to consider (Sample 72). Although at many places there is a thin capping of unaltered lime the vein persists uniformly for the length of the property, and beyond. In several places was noted a concentration of Powellite along the South wall of the vein.

MEMORANDUM

THE GOLDFIELD CONSOLIDATED MINES COMPANY

SAN FRANCISCO, CALIFORNIA

SUBJECT SALLY RAND GROUP -2- DATE 9/4/40

TO Mr. Witt

FROM O. W. Terry

SAMPLING was done to indicate the possibilities of the entire vein for large tonnage, and of the N. wall streak for small, selective operation. Samples 62, 70, and 71 were cut to a width of 2 to 3 feet including the best rock, for a practical stoping width. Samples 69, 72, and 73 were taken to more extensive widths as a guide to the feasibility of mining the entire vein. In the event of further sampling would recommend pneumatic equipment owing to the hardness of the vein in general. (The owner was planning to put a portable compressor on the property and this can be moved to almost any point on the vein with a tractor)

VALUES Under the fluorescent lamp, values appeared low except at the high-grade streak in the vicinity of the shaft. Mr. Smith is selecting this ore at present for shipment to a custom mill at Bishop. His assays on this rock run from 4% to 19%, and he believes it will average 5% for the limited tonnage he plans to ship (30 tons). From the small cut near the W. end of No. 3 Claim, a leaser made a shipment that was said to run about 1/2% (Sample 73). Because of the high gravity of the rock, this may be a better concentration than indicated, from the point of volumetric ratio.

Respectfully submitted,

/s/ O. W. Terry

3

Sally Rand Tungsten Group.
Mineral Co., Nevada

San Francisco
Sept. 4, 1940

To - Mr. H. N. Witt
From - O. W. Terry

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Located ½ mile N. of Coaldale-Bishop Highway; 12 miles from Coaldale (R.R.), 42 miles from Mina, Nev; - and 64 miles from Bishop, Calif. - No timber or water. Fresh water for mine & camp use may be had from Candelaria pipeline, 6 miles West; Mill water & mill site possible 6 miles East, at marsh in valley. Mild Climate in winter.

Geology. One or more, nearly vertical garnet & epidote veins traversing a series of dense, green silicified lime which strikes N 72° E and dips 30°-40° S. Immediately below the lime formation is series of conformable schists, intruded by a granite

laccolith about 1,000 feet North of the garnet vein. Several splits in the vein are indicated, and parallel veins are claimed, but were not observed.

The Vein is a massive body showing as nearly vertical where exposed to any depth. At the shaft, which is at the base of the hill it appears as nearly pure garnet about 30 ft. wide, striking N 70 E. At this point, scheelite was noted with a rich streak 8 To 16 inches wide along the North wall, and a more scattered occurrence across the rest of the vein. Farther West (250 ft.) numerous tight seams of epidote occur parallel to the vein structure. The scheelite here is very fine & probably too low-grade to consider. (sample 72) Although at many places there is a thin capping of unaltered lime the vein persists uniformly for the length of the property, and beyond. In several places was noted a concentration of Powellite along the South wall of the vein.

Sampling was done to indicate the possibilities of the entire vein for large tonnage, and of the N. wall streak for small, selective operation. Samples 62, 70, & 71 were cut to a width of 2 to 3 feet including the best rock, for a practical stoping width. Samples 69, 72 & 73 were taken to more extensive widths as a guide to the feasibility of mining the

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Respectfully Submitted,

Owen W. Terry

Reno, Nevada
September 25, 1940

To: Mr. Witt

Lou Gammell phoned this morning relative to the Smith Property.

Four samples submitted to University of Nevada ran from 1% to 3%.

However ore is so blended with powellite as to eliminate possibility of extraction according to Carpenter.

T. L. W.

This property is the Sally Rand recently examined by Terry.

H. N. W.

October 24, 1940

Subsequent shipments by owner to local mill assayed about 1% with 50% recovery at mill. This suggests that something may be wrong with Hank's assays of our samples.

H. N. W.

7

REPORT OF ASSAY

ABBOT A. HANKS, Inc.

ASSAYERS. CHEMISTS. ENGINEERS

624 SACRAMENTO STREET

Tolly Road

7 Ch. W

SAN FRANCISCO. Sept. 9, 1940

SAMPLE OF ORE

DEPOSITED BY Goldfield Cons. Mg. Co.

Labty. No.	Mark	GOLD, per ton of 2,000 lbs.		SILVER, per ton of 2,000 lbs.		Percentages
		Troy Ounces	Value @ $35.00 oz.	Troy Ounces	Value @	
			$		$	
14626	62					Tungstic Oxide 0.03
27	69					" None Found
28	70					" None Found
29	71					" None Found
30	72					" None Found
31	73					" 0.05

Tolly Road

RECEIVED
SEP 10 '40
EAJ
NW
CGL
DCB
HAS

ABBOT A. HANKS, INC.

G. T. Bee.

VE

REPORT OF ASSAY

ABBOT A. HANKS, Inc.

ASSAYERS. CHEMISTS. ENGINEERS

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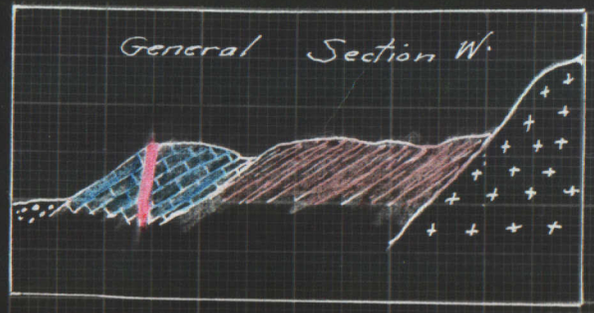
ABBOT A. HANKS, Inc.

Original Signed by
P. T. BEE

7



Granite

Schist

30°

Silicified Lime

35°

No. 1

No. 2

GARNET VEIN - 90°

No. 3

Shaft & Cut

FLATS

FLATS

Road - ½ mi. from hi. way

Sally Rand Group of Tungsten Claims

Mineral Co., Nev.

Schist

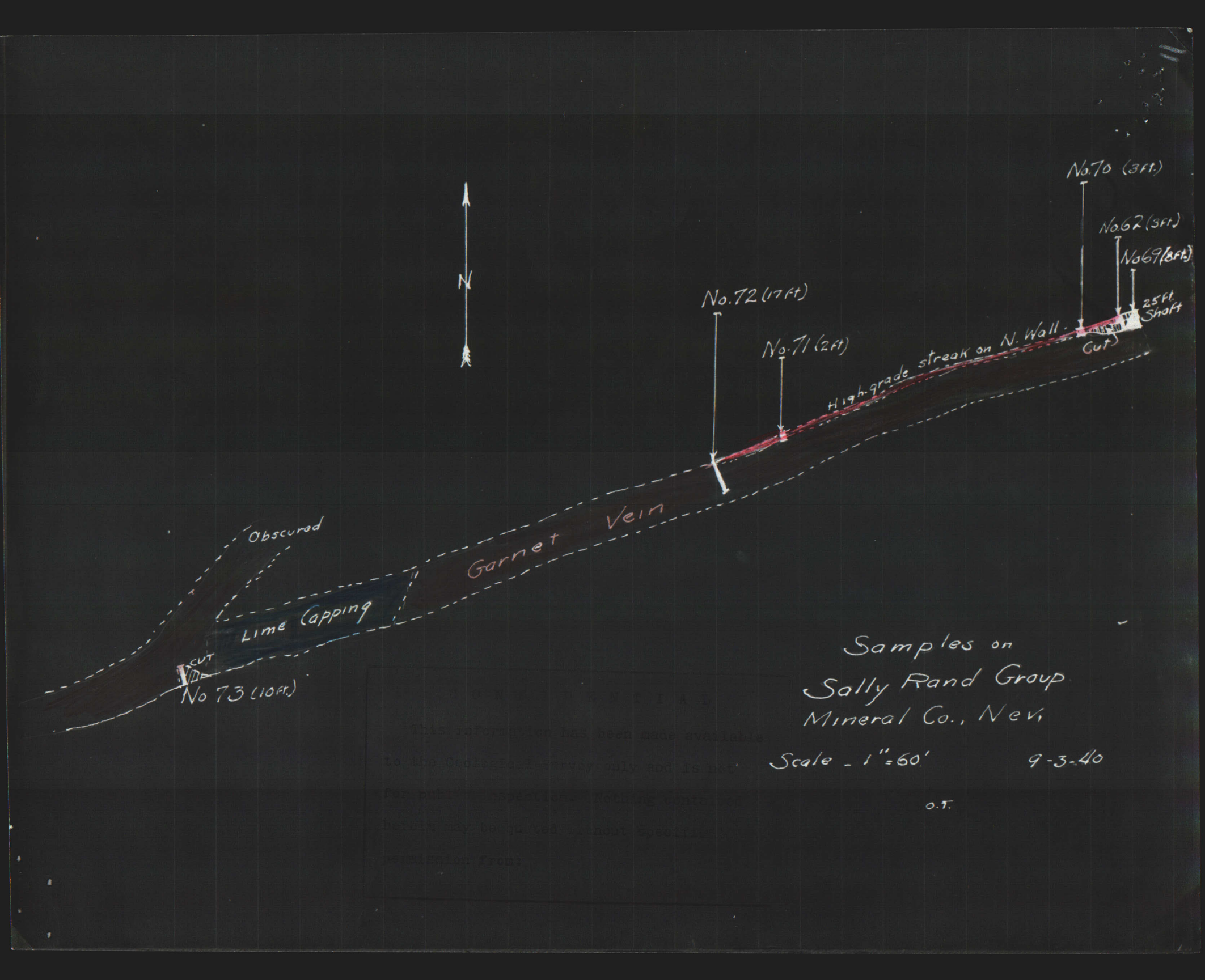
Silicified Lime

Garnet Vein

Scale - 100'

9-3-40

O.T.



Samples on
Sally Rand Group
Mineral Co., Nev.

Scale - 1" = 60' 9-3-40

O.T.

Black horse
Dist

(84)
Item 14

Memorandum on
BLACK HORSE TUNGSTEN PROPERTY
Esmeralda County, Nevada

Charles W. Chesterman
April 1943

Abstract

The Black Horse Tungsten Property is located in the Coaldale mining district, Esmeralda County, Nevada, about 12 miles west of Coaldale, Nevada, and just off the Bishop Highway. A compass and pace traverse was made of the mine workings. The tactite zone is definite and is bounded on both sides by a dense calc-silicate hornfels. There apparently are no tungsten reserves on the Black Horse Tungsten Property.

Location

The Black Horse Tungsten Property is located in the southern part of Esmeralda County, 12.1 miles ~~east~~ WEST of Coaldale and three quarters of a mile north of the paved highway from Bishop, California, to Coaldale, Nevada. The road leading to the mine workings from the Bishop Highway is a dirt road which is traversable all year around.

Ownership

There are three claims to the Black Horse Tungsten Property, Black Horse, Black Horse #1, and Black Horse #2. The Black Horse Property is owned by the following: Carl S. Rack, Coaldale, Nevada, R. D. Somerville, J. A. Irving, Mita R. Irving, L. B. Tannehill, and Mrs. L. B. Tannehill. It has been leased to Mr. C. W. Jones of ~~Beriton~~ Benton Station, California.

Production

There has been very little production thus far from the Black Horse Tungsten Property. While visiting the property, I was unable to contact the present operator, Mr. Jones, who might have given me some production information. Mr. J. A. Irving, one of the owners of the property, states that several tons of ore were shipped to Benton Station and the mill returns averaged around .5% WO_3.

Mine Workings and Equipment

The mine workings, both surface and underground, consist of the following: one adit about 120 feet long, which is in tactite throughout its entire length, numerous pits and trenches along the tactite zone, and a small powder magazine.

The equipment on the property of the Black Horse Tungsten Mine is concentrated in the vicinity of the main adit. There is a medium-sized 2-stage Ingersol-Rand compressor which is able to supply air for several machines, jack hammer, stoper, and possibly one drifter. The blacksmith shop in meagerly equiped with a small forge, anvil, and other tools necessary to keep tools sharp. There seems to be sufficient amounts of air and water line to reach all present sites of operation. The ore and waste are trammed to the 20-ton ore bin and dump in a three quarter ton ore car. In all surface trenches, a wheelbarrow is used for tramming

Geology

The rocks on the Black Horse Tungsten Property are a series of interbedded metamorphic rocks made up of tactite, calc-silicate hornfels, shaly hornfels, quartzite, and meta-volcanics, which strike toward the northeast at an angle varying from 60 to 70 degrees. The difference in direction of dip

may be accounted for by a tight anticlinal fold which was found only to the east of the road. Several small faults are present, the largest has seemingly displaced the eastern end of the anticline. The most prominent croppings are made up of the calc-silicate hornfels, a dense green and red rock, fine-grained, and made up of red garnet, epidote, and quartz. Zones of the calc-silicate hornfels can be found interbedded with the tactite, and also limiting the tactite on both sides.

The tactite is a dark colored rock composed of medium to coarse-grained brown and green garnet, and minor amounts of epidote. The tactite shows definite bandings with individual bands of the green and brown garnet being very common. Several prominent bands of green garnet are not uncommon.

Scheelite Deposits

The scheelite deposits are limited to the tactite zones. A few scattered crystals of scheelite were found in the calc-silicate hornfels. Throughout the entire length of the main adit, just two places were found which showed any scheelite. Neither of these occurrences were more than one foot wide, and the gradebof ore was not very good, being less than .25% WO_3.

After dark, all of the surface pits and trenches were examined with the ultra violet lamp, and practically all the trenches showed a few scattered crystals of scheelite. However, considerable amounts of powellite could be seen, and great care was taken to distinguish between the powellite and the scheelite. There were only two trenches which showed sufficient amounts of scheelite to warrant an estimation of grade. Trench (a) has three separate zones of scheelie-bearing tactite, and trench (b) has one zone of scheelite-bearing tactite. The widths and grades are indicated on the accompanying map.

Numerous amounts of green and orange fluorescing minerals are common on the dumps and on the trenches.

Reserves

There is very little likelihood that there are any mineable reserves of tungsten on the Black Horse Tungsten Property.

Respectfully Submitted
Charles W. Chesterman
Charles W. Chesterman
Junior Geologist
U. S. Geological Survey
Mill City, Nevada
April, 1943

T. B. Nolan (3)
S. G. Lasky
D. M. Lemmon
G. L. Allen
File

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File

(84)
Item 14

Esmeralda County

~~Basalt~~ BLACK HORSE

Small amounts of scheelite are widespread in thick bands of tactite found in T. 2 N., R. 35 E., 8 miles east of Basalt, on the north side of U. S. Highway 6. The tactite bands are 20 to 60 feet wide, and contain both scheelite and powellite. A little sorted ore was shipped to the Mineral Reduction Co. mill at Benton in 1962. The content of WO_3 in most of the material is negligible.