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U. S. Geological Survey  
Minerva, Nevada  
November 24, 1942

Item 20

Deer Trail Tungsten Claims  
White Pine County, Nevada

On November 24, Paul Bateman and I spent a half day at the Deer Trail claims. At the property we met E. R. Wagner, lessee.

The 5 claims are on the east side of the Schell Creek Range about 5 miles northwest of the Geyser Ranch on the Ely-Pioche highway. A steep, unimproved road  $4\frac{1}{2}$  miles long extends from the highway  $\frac{1}{2}$  mile north of the Geyser Ranch house to the top of a long alluvial fan within a half mile of the claims. The prospects are on the north side of a canyon that contains a stream of water.

The claims were located August 26, 1940 by A. A. Mortenson of Shoshone, and are now held on a 6-year lease and option by Edward R. Wagner of Ely. It is reported that John G. Berry and a Mr. Williams trenched and sampled the property in 1940 for New York interests, and recommended that an option be dropped. An old location notice found on the property, dated March 26, 1918, records the original discovery of the claims, then called Georgie W., by J. F. Wainbolt, Frank Burgoynes, Robert Brown, and J. W. Penglase.

Huebnerite and a trace of scheelite occur on the claims in a quartz vein that strikes easterly and dips about  $40^\circ$  southeast. The country rock is thin-bedded Prospect Mountain quartzite (lower Cambrian) that strikes N.  $10^\circ$  W, dips  $30^\circ$  NE. The vein has been prospected by 17 trenches, a 30-foot adit, and several shallow shafts. A 200-foot crosscut trench was cut by a bull-dozer several hundred feet east of the lowest known vein outcrop, but exposed no vein. There has been no production from the property, and no development is now under-way.

For 300 feet west from the lowest adit, the vein is 2 to 3 feet wide and contains some huebnerite in each of the cuts, which are spaced at 20 to 30 foot intervals. At sight, the grade appears to be 0.5 to 1.0% of  $WO_3$ . The average of 38 samples taken by Wagner is reported to be 0.93% of  $WO_3$ . (Assays by Pinky Johnson of Kimberley and John Herman of Los Angeles.)

The vein can be partially developed by adits, for it crops on a  $25^\circ$  slope. A 300-foot adit from the lowest exposure (140 feet below the highest) would develop a triangular block of ground containing 2,800 tons of ore indicated by surface outcrops (assuming a width of 2 feet and a volume of 15 cubic feet to the ton). Another 6,000 tons of inferred ore may lie below this block if the shoot extends 150 feet deeper. These estimates are based on little concrete evidence, for the vein is undeveloped, the surface is not stripped, and the sampling and assaying have not been checked. It is possible that the entire 300 feet may not constitute a single oreshoot when developed.

The 3 samples we took, assayed in the Survey laboratories in Washington, were reported as follows: A chip sample of 15 feet of vein exposed in the lowest adit gave 0.21% of  $WO_3$  (vein 2 feet wide); a grab sample of fines from the dump of this adit gave 0.21% of  $WO_3$ ; and a chip sample from the sorted ore pile gave 2.18% of  $WO_3$ . The conclusion is that a small tonnage of shipping grade could be sorted.

Dwight M. Lemmon

Box 1110, Ely, Nevada July 3, 1943

Mr. T. B. Nolan  
U. S. Geological Survey  
Washington, D. C.

Deer Trail Claims

Dear Tom:

This morning I drove part way up the abominable road to the Deer Trail claims 25 miles west of Minerva to see if any work was being done. The road has not been traveled this Spring, and the property shows no indication of recent work. Presumably nothing has been done since I looked at it with Paul Bateman last November.

No one around here has heard of any work being done this year.

Next time I go to Ely, I will try to find Ed Wagner, who is probably still trying to promote the property, and find out what he plans to do. I will also keep an eye out for the owner (Mortenson), who is reported to be at Shoshone now.

Sincerely,

Dwight M. Lemmon



# MINERAL DEPOSITS INVENTORY

Mine: Deer Trail  
Commodities: W

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Topo Setting: on W-facing nose of a 25° Hill on N side of main canyon

Lithology (chron): quartzite shale

Form, extent: thin-bedded

Thickness

Strike N10W irreg N10E irreg

Dip 30° NE

Fm: P.M.

Age L. C

Folds, faults (class) many minor fractures and faults

Strike along and across the vein

Dip

Displaces host rock and vein

Name, loc.

Ore Minerals, Primary: huebnerite, trace of scheelite composition of pyrite Oxide:

Gangue: quartz

Ore Control:

Depth water:

Ox:

Ore bodies:	Location	Str. length	Dip length	Thickness	Ore/waste	Cut-off	Tons	Av. grade	Tot. Units
Tons/cu. ft.:	Rock & Struc	ft.	ft.	ft.	ratio	grade	ore	ore	
15									
	Surface							visual, est. 0.5-1.0 WDS	38 samples
	Surface							3 samples 0.21, 2.1, 1.8	owner 0.93
Reserves: Meas.	Weathered character of vein								
Date: 1942 Ind.	makes estimate of grade								
Author: Inf.	impossible.								
Hobbs Susp.	Prospect is not well enough established to warrant a Bur. Mines project								
1942 Meas.									
Lemmon Ind.	above proposed adit	300	150	2	all		2,800	small tonnage of ship-	
Inf.		300		2	all		6,000	ping grade could be sorted	
Susp.									

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# MINERAL DEPOSITS INVENTORY

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Mine: Deer Trail

Commodities: W

State	County	District	Quadrangle	Latitude	Longitude	Altitude	Sect. Twp. Rge.	B & M	Mts., Val.
Nevada	White Pine	Mt. Grafton? Geyser Ranch?						Mr. Diablo	Schell Creek Range east side

Mine names:

Claims: Georgie W. 5 claims (Deer Trail)

Date Loc: Mar 26, 1918

Aug. 26, 1940

Access via: Geyser ranch, N 0.9 mi on U.S. 93, W 5 mi on dirt road to camp site, W 0.5 mi on foot-trail up small canyon

Take R fork @ 3.0 mi.

1 1/2 mi.?

570 W from cabin @ end of road

Total: 1942 1 1/2 mi. of road required

24 mi N of stream

Operating Determinants, geologic:

Ann. pptn. Max. snow Work season

Power, mi.

Water, gpm. mi.

Truck haul, mi.

Smelter

in. \$

ft. %

History of Ownership, address	Operator, address	Employees, mine, mill, total
Date 1918 J.F. Wainbolt, E. Bargeys	Robt. Brown, J.W. Penglass (4 orig. locators)	
1940 ?	Lessee J. G. Barry, M. Williams	explored, sampled, option dropped
1942 A.A. Mortensen, Shoshone	E.R. Wagner, Ely	

History of Development (cumulative)				Trenches, cuts															
Date	Area explrd	d.holes	Area mined	Open pits	Adits	Shafts	Levels	Tot.lin.ft.	Tot.cu.ft.	Plant type	Capacity	Trmt.cost							
1940	400 ± x 200			17 trenches	1 (30')	several shallow													
1942				Many small	1 (30')														

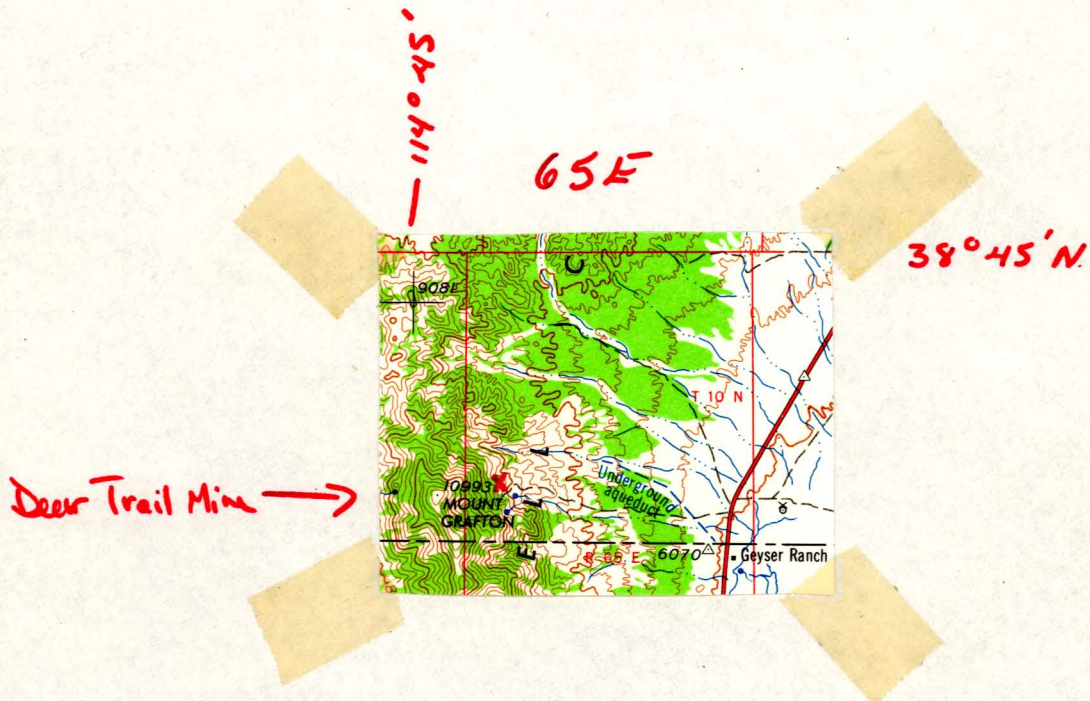
History of Production (summary)

Date-date	Tons waste	Cut-off grade	Tons of ORE	Av. grade	Total units	Total dollars	Tot. cost/ton	Tot. cost/unit
1942			None					

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~~Mount Grafton area~~

Geyser Ranch area ⚡

scale: 1:250,000