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Arizona Department of Mines and Mineral Resources Mining Collection

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05/01/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: GOLD HILL

ALTERNATE NAMES:
QUARTZSITE TUNGSTEN
JACKPOT AND VELMAETTE GROUPS
TUNGSTEN HILL MINE

LA PAZ COUNTY MILS NUMBER: 118

LOCATION: TOWNSHIP 5 N RANGE 20 W SECTION 27 QUARTER SW
LATITUDE: N 33DEG 44MIN 40SEC LONGITUDE: W 114DEG 19MIN 36SEC
TOPO MAP NAME: MIDDLE CAMP MTN - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
TUNGSTEN

BIBLIOGRAPHY:
KEITH, S.B., 1978, AZBM BULL. 192, P. 160
ADMMR GOLD HILL FILE
USBM RI 5516, p. 19 (Quartzsite Tungsten)

GOLD HILL

LaPaz
~~YUMA~~ COUNTY

U IV Quartzsite - Tungsten
Jackpot
Tungsten Hill
Stetler Tungsten Mill

RI 5516

MILS Sheet sequence number 0040270393

ABM Bul. 192, p. 160

June 1, 1943

O. P. A.,
Gas Rationing Division,
Security Building,
Phoenix, Arizona.

Dear Sir:

Mr. J. M. Elmer, Manager of Gold Hill Dredging Company, 311 California Street, San Francisco, California, is in need of additional allotment of gas in order to properly carry out his work.

Mr. Elmer is manager of the operations on the Quartzsite Tungsten project located 11 miles northwest of Quartzsite. This operation has been carried on for the past eight months, employing ten men, developing and producing from a group of 17 mining claims. They have shipped about 30 tons of tungsten ore, the average mine running being 1.3% tungstic-oxide with a smaller shipment of selected ore running 8.19% tungstic-oxide.

At present Mr. Elmer has a B card which entitles him to 470 miles per month. As camp facilities are limited, most of the men live at the town of Quartzsite, and it is necessary for Mr. Elmer to transport four of the men each day to the mine. There are numerous other trips necessary for supplies and other mine examination work so that, we feel, as though Mr. Elmer is entitled to an additional allotment of gas, and I believe his work justifies about 1500 miles per month.

I beg to certify to the need of this operation for the necessary production of war metals, and hope you may be able to give him the additional allotment.

Best wishes and personal regards,

Very truly yours,

J. S. Goupal, Director

JSG:ET

March 11, 1943

Mr. C. J. Schifferle
Gold Hill Dredging Company
311 California Street
San Francisco, California

Dear Mr. Schifferle:

I am sorry to have missed your call when you were in Phoenix. I have your letter of March 8 before me.

I would gladly instruct our field engineer to call and make a report on your property, but he has rather a difficult assignment ahead of him for the next month due to the fact that our engineer in the Yavapai County district took other employment. Elgin B. Holt, field engineer for the western district, will have to cover both districts for the next few weeks pending selection of another engineer.

The obtaining of priority rating is rather difficult at the present time, but I am enclosing a form on which you should apply for a P-56 Preference Rating. I would like to retain the geological report on your property in our files here in Phoenix and would suggest that in making your application for a P-56 rating at Washington, D. C. that you enclose another copy of the geological report on your property. In addition to such a report, I believe it would be advisable for you to accompany your application for a P-56 rating with a complete statement of the work now being done on your property. This will assist them in determining whether or not such a rating should be granted. A provision has been made, however, for obtaining supplies and equipment for properties on which P-56 ratings are not available or have not been granted. That is an application for a PD-1A Preference Rating. I am enclosing a set of blanks, additional copies may be obtained at any of the War Production Board offices. These PD-1A forms are for immediate needs and are serviced directly in Phoenix without going to Washington.

If you can anticipate your needs for several weeks in advance or for your immediate needs, you can make out this PD-1A form, mail it direct to War Production Board, Security Building, Phoenix. They will furnish you with whatever rating is necessary on the items required. It may be necessary for you to find out what this rating is by inquiring from the merchants from whom you would buy such supplies. I hope this information will be of value to you.

Very truly yours,

JSC:kk
Enclosures

J. S. Coupal, Director

GOLD HILL DREDGING COMPANY

THREE ELEVEN CALIFORNIA STREET

SAN FRANCISCO, CALIFORNIA

PROPERTIES
CAMANCHE, CALIFORNIA
CLEMENTS, CALIFORNIA
OROVILLE, CALIFORNIA

PHONE EXBROOK 2365

March 8, 1943

DEPT. MINERAL RESOURCES
RECEIVED
MAR 10 1943
PHOENIX, ARIZONA

Mr. S. J. Coupal, Manager
Arizona Mineral Resources
413 Home Builders Bldg.
Phoenix, Arizona

Dear Mr. Coupal:

On February 24th the writer, with Mr. J. M. Elmer, Engineer in charge of our Tungsten Project at Quartzsite, Arizona, called at your office at the suggestion of Mr. Joralemon, of Metal Reserve Corporation, San Francisco. Not finding you in we were however quite fortunate in being taken in hand by Mr. C. C. Beddome, who extended every courtesy and made our visit most pleasant, as well as imparting much useful information.

The purpose of our call was to see if one of your engineers could report on our property and thereby assist us in establishing a priority rating as we are having difficulties obtaining necessary supplies. As mentioned to Mr. Beddome, we are enclosing a geological sketch of the property made by one of our engineers prior to our commencement of work in November, 1942.

We trust that you may be able to help us in this matter.

Very truly yours,

GOLD HILL DREDGING COMPANY

C. J. Schifferle

C.J.Schifferle

CJS'emp

GOLD HILL YUMA COUNTY

John Barber, Canadian Geologist phoned for information on the Tung Hill WO_3 property in Sec. 27, T5N, R20W in Yuma County. He has read the statements by USBM in RI 5516 on the property. GW WR 12-18-70

Went, in company of Tony Darland, to his Tung Hill scheelite mine about 12 miles NW of Quartzsite. Here, spotty but good amounts of scheelite occurs in a metamorphosed series of rocks consisting of schist, marble and quartzite. The principal mineralized zone appears to have been highly metamorphosed tectonically to almost a serpentine. The general area has been faulted considerably, both along the strike of the formations and across them. The mine is developed by two connected, vertical shafts 85' and 35' deep about 150' apart and two adits. The upper adit has the largest stoped area which is about 75' long and 25-30' up the dip (35°). The general strike of the enclosing formations is E-W and they dip N 20°-30°. The property consists of 12 unpatented claims in Section 27, T5N, R20W; it is mentioned in RI 5516. GW WR 3/24/72

Gold Hill Mine

T. 5 N., R. 20 W. Sec. 27

Yuma County

reference: Arizona Dept. of Mineral Resources
Gold Hill Yuma County (file)

present owner: Gold Hill Dredging Company
311 California St.
San Francisco 4, Cal.

former names of the mine:
Quartzite Tungsten Mine
"Tung Hill"

previous owners: Len Hogue

history of the mine:
The 14 unpatented lode claims and 3 unpatented placer claims were located by Len Hogue in January 1942 and acquired by the Gold Hill Dredging Company in 1943. In 1943-1944 experimental production of 53 tons of scheelite at average grade 0.435% WO_3 was undertaken. Since then (1958 report) the property has been leased several times. Actual potential has not been developed due to generally poor economic conditions.

Minerals: scheelite

ore: 1952-1956, 4,001 tons at an average grade of 0.416% WO_3 was produced. The extent of the mineralization

Gold Hill Mine (Cont.)

in the calcareous schist has not been determined. Scheelite crystals of up to 3 inches may be found. Scheelite float for about 2,000 feet along the strike of the mineralized zone. The mineralized schist bed carries 0.2 to 0.4% WO_3.

Geology: Granite in contact with quartz-epidote schist in general area; outcrops of limestone. Bodies of garnet-epidote tactite along the contact between the schist and limestone. No granitic rocks in mine site area.

This area is believed to be of value if the tungsten market improves

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

RECEIVED
OCT - 8 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Date: October 6, 1958

1. Mine: Quartzsite Tungsten Mine/"Tung Hill". Now "Gold Hill" (former)

2. Location: Sec. 27 Twp. 5N Range 20W Nearest Town Quartzsite Distance 11 mi. NW
   Direction NW Nearest R.R. Blythe, Calif. Distance 26 miles
   Road Conditions US 60 to QTSE, ARIZ. From there desert road to mine

3. Mining District and County: Northend of DOME ROCK MOUNTAINS

4. Former Name of Mine: "Tung Hill" now "Gold Hill"

5. Owner: GOLD HILL DREDGING COMPANY, a Nevada corporation
   Address: 311 California St, San Francisco 4, California.

6. Operator: JOHN J. STETLER
   Address: P.O. BOX 219, EAGLE MOUNTAIN, CALIF.

7. Principal Minerals: SCHEELITE

8. Number of Claims: Lode 14 Patented ..... Unpatented .....
   Placer 3 Patented ..... Unpatented .....

9. Type of Surrounding Terrain:
   See report of July 16, 1958

10. Geology and Mineralization: Same as in report July 16, 1958

11. Dimension and Value of Ore Body:
    Same as in report of July 16, 1958

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight":

SEE REPORT OF JULY 16, 1958

Ore Probable:

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts			
Raises			
Tunnels			
Crosscuts			
Stopes			

see previous reports

14. Water Supply:

15. Brief History: Located by Len Hogue January, 1942. Acquired by Gold Hill Dredging Company in 1943.

16. Remarks:

see former reports

17. If Property for Sale, List Approximate Price and Terms:

Might consider sale, subject to present short-term lease. Reputation and qualifications of purchaser more important than "down payment," but price must be SUBSTANTIAL and prompt additional development required.

18. Signature:

GOLD HILL DREDGING COMPANY

By W. S. Gilbert
Manager, Land Department

ADDRESS ALL INQUIRIES: ATT'N: LAND DEPARTMENT, GOLD HILL DREDGING COMPANY
ROOM 904 - 311 CALIFORNIA ST., SAN FRANCISCO 4, CALIF.
PHO: EXbrook 2-2365.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

RECEIVED
JUL 18 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Date July 16th 1958

1. Mine: QUARTZSITE TUNGSTEN MINE "Tung Hill"

2. Location: Sec. 27 Twp. 5N Range 20W Nearest Town Quartzsite Distance 11 miles NW
Direction NW Nearest R.R. Blythe, California Distance 25 miles
Road Conditions U.S. 60-70 to Quartzsite, Ariz. From there Desert Rd to mine

3. Mining District and County: In Northend of Dome Rock Mountains

4. Former Name of Mine: "Tung Hill"

5. Owner: Gold Hill Dredging Company, a Nevada corporation
Address: 311 California Street, San Francisco 4, California.

6. Operator: John J. Stetler,
Address: P.O. Box 219, Eagle Mountain, California.

7. Principal Minerals: Scheelite

8. Number of Claims: Lode 14 Patented ..... Unpatented ✓
Placer 3 Patented ..... Unpatented ✓

9. Type of Surrounding Terrain: At an elev. of appx. 750 and 1000 ft abv sea level, extending to a point near top of the divide of Dome Rock Mtns. Drainage is Eastward into the Tyson Wash which flows NW and West, emptying into the Colorado Riv. Underground water is present in Tyson Wash and some of its tributaries.

10. Geology and Mineralization: Old gold placers of the La Paz district lie 9 miles to the south. A geologic map by Jones of the U.S.Geological Survey shows granite in contact with quartz-epidote schist in this general dist., not more than 6 miles from the property. Limestone-schist contacts extend westward over the divide of Dome Rock Mountains. There are bodies of garnet-epidote tactite along the contact between the schist and limestone. No granitic rocks are exposed in the immediate area.

Limestone beds, from which the marble was metamorphosed, form prominent outcrops a short distance northwest of the mine.

There is some evidence indicating that the greatest mineralization in this area may have taken place nearest the crest or high point in the anticline, as if trapped in it and under the limestone.

11. Dimension and Value of Ore Body:

The highest-grade ore has come from the upper adit workings. Scheelite crystals to 3 inches in evidence there. The extent of mineralization in the calcareous schist has not been determined. Scheelite float is found for about 2,000 ft along the strike of the mineralized zone. The mineralized schist bed carries from 0.2 to 0.4 percent WO_3.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight": Inoperative due to poor economic outlook on tungsten. Modest development production from 1952 thru 1956 was 4,001 tons at an average grade of 0.416 percent WO_3.

Ore Probable: Further prospecting warranted as result of production on small scale todate. Believed the ore-bearing rock of the limestone area may indicate a body of tungsten of considerable magnitude.

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts			
Raises			
Tunnels			(SEE COPY ATTACHED REPORT BY SOUTHWEST EXPERIMENT STATION)
Crosscuts			
Stopes			

14. Water Supply: Wells

15. Brief History: Claims were located by Len Hogue in January, 1942, and avquired by Gold Hill Dredging Company, a corp., of San Francisco, in 1943, the present owner. Modest experimental production of about 53 tons of scheelite in 1943 and 1944, at aver. grade 0.435 percent WO_3. Since then the property has been leased to several different parties, Actual potential has, due to generally poor economic conditions, not been developed.

16. Remarks:

Eminently deserving of extensive prospecting and development soon as a more realistic domestic governmental base for tungsten is achieved.

17. If Property for Sale, List Approximate Price and Terms:

Not forsale, however, reasonable propositions for substantial development and operation under lease by qualified group or firm will receive due consideration.

18. Signature:

GOLD HILL DREDGING COMPANY

by W. S. Gilbert

Manager, Land Department

311 California St.,
SAN FRANCISCO 4, CALIF.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF MINES
REGION III

RECEIVED
APR 17 1958

SOUTHWEST
EXPERIMENT STATION

P. O. BOX 4097
UNIVERSITY STATION
TUCSON, ARIZONA

April 15, 1958

Gold Hill Dredging Co.
311 California St.
San Francisco, Calif.

Dear Sir:

In the near future the Bureau of Mines expects to publish an Information Circular or Report of Investigations on Tungsten Deposits of Arizona. The attached sheets give a brief description of your deposit which we would like to publish in our circular.

If the attached report has your approval, you need not return it. However, if you wish to make any changes please return the attached description with your comments and suggested alterations within two weeks. If we do not hear from you within two weeks we will assume that you approve the description as written.

Sincerely yours,

Walter R. Storms

Walter R. Storms
Superintendent
Southwest Experiment Station

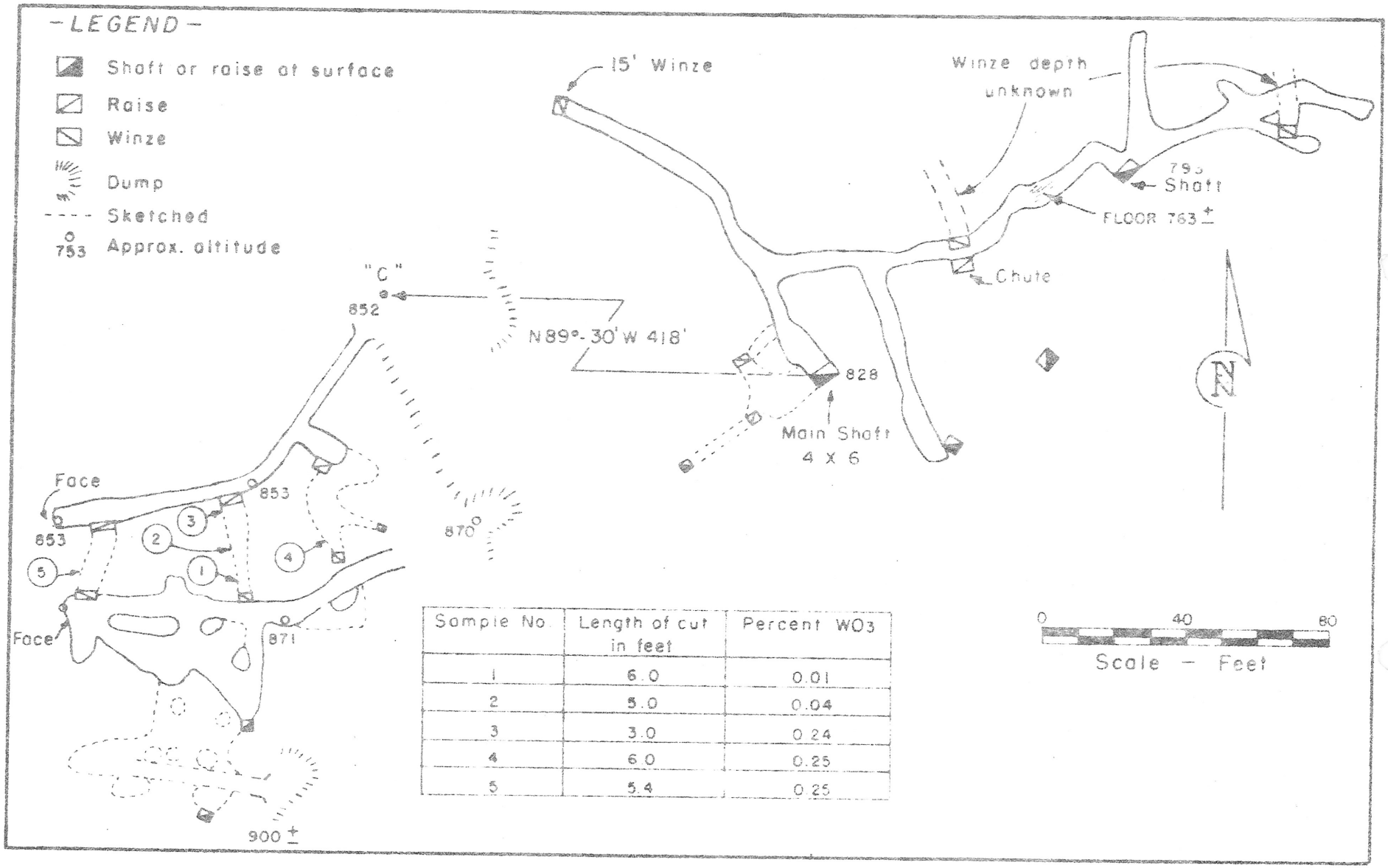
Yuma County

Quartzsite tungsten mine

The Quartzsite tungsten mine, locally known as Turig Hill, is comprised of the Jackpot group of 14 unpatented lode claims and Velmaette group of 3 unpatented placer claims situated in sec. 27, T. 5 N., R. 20 W. in the north end of the Dome Rock Mountains at an altitude of approximately 850 feet. The property is reached over a desert road from Quartzsite. Go northerly past the schoolhouse 8.4 miles from U. S. Highway 60-70. Turn westerly on a branch road and go 2.5 miles to the lower shaft on the claims. See figure 1. (NOT INCLUDED)

The claims were located by Lew Hogue in January 1942, and were sold to the Gold Hill Dredging Company early in 1943. This company owns the claims today.

Workings on the property consists of 2 shafts, one 32 feet deep and the other about 85 feet deep, with a connecting drift. About 310 feet of drifts have been driven from the 2 shafts with 3 winzes ranging from 10 to 25 feet deep. There is a stope about midway and on the west side of the 85-foot shaft. A raise to the surface and a winze have been driven from the stope. Two adits, S. 81° W., 350 feet from shaft No. 2 (see fig. 2) have been driven 100 feet each into high-grade occurrences of scheelite ore. The upper adit has stopes to the surface, and 3 raises connect the 2 adits. In addition there are numerous shallow opencuts, pits, and trenches on the surface.



Sample No.	Length of cut in feet	Percent WO_3
1	6.0	0.01
2	5.0	0.04
3	3.0	0.24
4	6.0	0.25
5	5.4	0.25

Fig. 2 Brunton survey of underground workings on Jackpot group, Gold Hill Dredging Co. Yuma County, Arizona

The area is underlain by quartz-biotite schists with interbedded gneiss. Lenticular beds of marble are present locally. Limestone beds, from which the marble was metamorphosed, form prominent outcrops a short distance northwest of the mine. The beds strike N. 30° to 50° E. and dip 20° to 30° NW. There are bodies of garnet-epidote tactite along the contact between the schist and limestone. Irregular quartz veins, striking generally N. 70° E. cut the mineralized zones. No granitic rocks are exposed in the area.

Sporadic scheelite mineralization occurs in the tactite and calcareous schist where the quartz veins cut the formation. There are indications, too, that enrichment occurs at intersections of fractures trending N. 20° W. and E-W. with the quartz veins trending N. 70° E. The northwesterly trending fractures dip 60° SW and the east-west fractures dip about 75° N. The quartz-filled fractures are nearly vertical. Widths of the mineralized zones normal to the dip of beds, both in the lower shaft workings and in the adit workings above, range from 5 to 30 feet. In the shaft workings, particularly the east end, can be seen numerous thin beds that have been mineralized in the calcareous schist. Mineralization extends at least 200 feet down the dip of the beds.

THIS [illegible] WILD IN MONA
[illegible] LOCATION

Quartzsite Tungsten Hill
Yuma County

In 1943 and 1944, 53 tons of scheelite ore at an average grade of 0.435 percent WO_3 were produced by the Gold Hill Dredging Co. The property, since that time, has been leased to several different parties. Production from 1944 to 1951 is not known. Production from the property from 1952 through 1956 was 4,001 tons at an average grade of 0.416 percent WO_3.

THIS COPY WILL [illegible]
PURSUE FURTHER [illegible] PUBLICATION.

The highest-grade ore has come from the upper adit workings. Scheelite crystals to 3 inches in size were observed here. The upper adit was driven near the nose of an anticline, and pockets of high-grade ore (were) was extracted where quartz veins cut the schist and limestone. The extent of the mineralization in the calcareous schist has not been determined. If the schist beds are mineralized here as they are in the shaft workings below, there should be a considerable tonnage of low-grade ore.

Scheelite float is found for about 2,000 feet along the strike of the mineralized zone.

The author cut 5 samples in the upper workings. Locations of samples are shown on figure —

Sample number	Length of cut in feet	Percent WO_3
12988	6.0	0.25
12989	5.4	0.25
12990	3.0	0.24
12991	5.0	0.04
12992	6.0	0.01

The mineralized schist bed is estimated to carry from 0.2 to 0.4 percent WO_3

ARIZ. BUREAU OF MINES
PROMISE FOR PUBLICATION

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 1/16/45

Name of Mine: Quartzite Tungsten

Owner or Operator: Gold Hill Dredging Co

Address: Quartzite Ariz

Mine Location: Near Quartzite

Filing Information

File System:

File No.:

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production X; Development; Financing; Sale of mine;

Experimental (sampling); Owner's occasional trip;

Other (specify)

PRODUCTION: **Past and Future.**

	Tons
Approx. tons last 3 months	
Approx. present rate per 3 months	Cancelled
Anticipated rate next 3 months	
If in distant future check (X) here	

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks			
Ore Hauling Trucks			
Compressors	1-60 HP	200	1200
Other Mine or Mill Eqpt.	5 pieces mc hrs		900

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Tungsten

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By: Chas. A. Drewry

GOLD HILL DREDGING CO.

W

Yuma 14 - 4 T 5 N, R 20 W

Gold Hill Dredging Co., 311 California St., San Francisco '43

NAME OF MINE: QUARTZSITE-TUNGSTEN

COUNTY: YUMA
DISTRICT: W
METALS:

OPERATOR AND ADDRESS: DATE:		MINE STATUS DATE:	
6/44	J.M. Elmer, Supt., Box 10, Quartzsite Gold Hill Dredging Co.	6/44 4/45	Developing and remodeling mill Idle

70-30/60

Gold Hill Dredging Co.
311 California St. S.F.

J. M. Eckner Mgr:
~~operating~~ as
Quartzvale - Tungsten Project
11 miles N.W. from Quartzvale
10 men - 17 claims -
8 month.

Has shipped 30 ton { 1.74 / 6.7 / 8.19 } x 2.61 = 1.3

Partly stoped -
2 shafts 35' with 7 ft. x cuts
55 " "
Sinking + drifting.

Now have ample gas for trucks
- Need - 470 miles B card
Entitled - 1500 per month.

Carry - 4 men mine & town -
other expenses work & shipping -

QUARTZSITE TUNGSTEN PROPERTIES OF THE

√ GOLD HILL DREDGING COMPANY
311 California Streeet
San Francisco, Calif.

LOCATION:

The property herein described is located some eight miles northwest of the small Arizona town Quartzsite near the northern end of the Dome Mountains. Just to the north of the property is one of the highest points in the Dome Mountains and this point is known as La Paz Mountain. For further location, the property is located in (Section unknown) T. 5 S., R.20E., S. B. B. & M.
T5NR20W

ACCESSIBILITY OF AREA:

This said property is very accessible throughout the year. A fairly good dirt road takes one directly from Quartzsite to within a few miles of the property and the remaining distance can be covered by some more dirtroad with very little time and difficulty.

EXTENT OF PROPERTY:

There are seventeen claims covered by this property. Of these seventeen claims three are for placer and the other fourteen are for lode tungsten. The placer deposits are located principally within the limits of the desert stream beds and the material making up these deposits are none too compact. The lode deposits are typically those of the contact metamorphic, tactite.

GENERAL GEOLOGY OF THE AREA:

The Dome Mountains rise out from the plains region as a distinct range. They are composed essentially of metamorphosed sediments of probable pre-Cambrian age and consist predominately of gneiss, schist, limestone, and minor amounts of clay-slate. Intruding these metamorphics are a few small granitic intrusions which are probably Jurassic in age. In the northwestern portion of the area are a few small lenses of metamorphosed limestone which are supposed to be Paleozoic in age (Mississippian).

The general dip of the meta-sediments is toward the north. Due to the doming effect of the granitic intrusions, the meta-sediments do not dip consistently in the same general direction. On the western side of the Dome Mountains the dip is towards the N.W. while on the eastern side of the mountains the general dip is towards the N.E. However, in that particular region around the property under consideration the meta-sediments dip in a northwesterly direction and the strike is around N 75-80°W.

It is in the small lenses of limestone that the deposition of scheelite took place. Even though small portions of the limestone still remain as limestone (marble), a greater part was altered to a tactite which is composed essentially of spidote with minor amounts of wollastonite and the green variety (California jade) of vesuvianite (idocrase) O--Californite. Now and then a thin blanket bed of iron ore hematite can be found.

Numberous small veins of quartz veins are found cutting the metamorphic rocks and nearly all of these veins carry scheelite. Some of the veins will carry more sheelite than others. A suggested plan for mapping the veins would be to accurately plot all quartz veins and pegmatite veins by place table methods and try to determine whether the veins converge to form a large feeder vein or zone of concentration. At the point of convergence there might be a more highly mineralized form of vein matter than is found in the small veins themselves.

The limestone and the associated tactite forms a band about fifty feet in width. The footwall side, or the low side of the band, is a quartzitic gneiss while the hanging well or the upper side is compsed of micaschist and gneiss. The problems met with in the mining of scheelite are in this particular rock would be very few in number for the country rock is very well jointed and these joints will greatly facili tate mining operations.

The material which composes the placer deposits was derived from the surrounding (immediate) mountains. Most of the rock fragments are subangular in shape

and only a few of them will average more than two feet in diameter.

Another deposit of note in this region is that of the mineral Kyanite, an aluminum silicate (Al_2SiO_5) which has been used to a large extent as a refractory material. Rather large deposits occur here. They are associated very closely with the more aluminous varieties of the schists and gneisses and occur as lenses and distinct zones in the gneiss. On a fresh surface the Kyanite is pale blue while on the exposed and weathered surface the blue color is very faint and in most cases it has disappeared. Masses containing crystals of Kyanite as much as two inches in length are not uncommon, as a matter of fact, this is the more abundant form of the mineral.

During minor placer operations, the former holder of the property, found several pieces of tin ore cassiterite. The cassiterite is black in color and exhibits the characteristics very common to the mineral. One would not be very far wrong if he were to conclude that the tin came from the Dome Mountains. However, just where the source of this valuable material is no one knows but by diligent search and careful prospecting, the source of this mineral can be found.

Besides tin, a small amount of Wolframite (tungsten mineral of economic importance and value) was also found and the reasoning as applied to the tin is applicable here.

Remarks:

In so far as the lode deposits are concerned, there has been very little or nothing done to reveal them and indicate their potential wealth. Only one small pit of not more than five feet has been dug and in this pit very good scheelite ore is visible. It is true that the rock on the surface has been pretty much covered by the well known Desert Varnish which will, to a marked degree, cover up and conceal any scheelite which might be present.

Trenches dug at intervals along the lenses across the strike of the tactite zone will do more to test the rock than will merely picking the rock at

random places and considering each picked spot as a contributor for a composit sample. These trenches should be at least one foot deep so as to get below the zone of Desert Weathering.

Concerning the placer, more has been done here than in the case of the lode deposits. A few shafts were sunk to determine depth of placer material, but on none of these shafts were any true tests run, that is, no attempt was made to accurately determine the amount of scheelite present by reliable methods such as running the entire amount of material taken from any one of the shafts. By sampling only a few hundred pounds one is not obtaining a reliable test.

Such methods as are necessary should be put into operation so as to accurately determine the merits of the property. Assays of the tactite should be run and a geological map of the entire region should be made so as to lend information on the geological control of the mineralization.

Charles W. Chesterman
September 26, 1942
150 Paraiso Place
San Francisco, California

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

RECEIVED
OCT - 8 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Date: October 6, 1958

1. Mine: Quartzsite Tungsten Mine/ former "Tung Hill". Now "Gold Hill"

2. Location: Sec. 27 Twp. 5N Range 20W Nearest Town Quartzsite Distance 11 mi. NW
   Direction NW Nearest R.R. Blythe, Calif. Distance 26 miles
   Road Conditions US 60 to QTSE, ARIZ. From there desert road to mine

3. Mining District and County: Northend of DOME ROCK MOUNTAINS

4. Former Name of Mine: "Tung Hill" now "Gold Hill"

5. Owner: GOLD HILL DREDGING COMPANY, a Nevada corporation
   Address: 311 California St, San Francisco 4, California.

6. Operator: JOHN J. STETLER
   Address: P.O. BOX 219, EAGLE MOUNTAIN, CALIF.

7. Principal Minerals: SCHEELITE

8. Number of Claims: Lode 14 Patented ..... Unpatented .....
   Placer 3 Patented ..... Unpatented .....

9. Type of Surrounding Terrain:
   See report of July 16, 1958

10. Geology and Mineralization: Same as in report July 16, 1958

11. Dimension and Value of Ore Body:
    Same as in report of July 16, 1958

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight":

SEE REPORT OF JULY 16, 1958

Ore Probable:

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts		
Raises		
Tunnels		
Crosscuts		
Stopes		

see previous reports

14. Water Supply:

15. Brief History: Located by Len Hogue January, 1942. Acquired by Gold Hill Dredging Company in 1943.

16. Remarks:

see former reports

17. If Property for Sale, List Approximate Price and Terms:

Might consider sale, subject to present short-term lease. Reputation and qualifications of purchaser more important than "down payment," but price must be SUBSTANTIAL and prompt additional development required.

18. Signature:

GOLD HILL DREDGING COMPANY

By W. S. Gilbert
Manager, Land Department

ADDRESS ALL INQUIRIES: ATT'N: LAND DEPARTMENT, GOLD HILL DREDGING COMPANY
ROOM 904 - 311 CALIFORNIA ST., SAN FRANCISCO 4, CALIF.
PHO: EXbrook 2-2365.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

RECEIVED
JUL 18 1958
DEPT. MINERAL RESOURCES
PHOENIX, ARIZONA

Date July 16th 1958

1. Mine: QUARTZSITE TUNGSTEN MINE "Tung Hill"

2. Location: Sec. 27 Twp. 5N Range 20W Nearest Town Quartzsite Distance 11 miles NW

Direction NW Nearest R.R. Blythe, California Distance 25 miles

Road Conditions U.S. 60-70 to Quartzsite, Ariz. From there Desert Rd to mine.

3. Mining District and County: In Northend of Dome Rock Mountains

4. Former Name of Mine: "Tung Hill"

5. Owner: Gold Hill Dredging Company, a Nevada corporation

Address: 311 California Street, San Francisco 4, California.

6. Operator: John J. Stetler,

Address: P.O. Box 219, Eagle Mountain, California.

7. Principal Minerals: Scheelite

8. Number of Claims: Lode 14 Patented ..... Unpatented ✓

Placer 3 Patented ..... Unpatented ✓

9. Type of Surrounding Terrain: At an elev. of appx. 750 and 1000 ft abv sea level, extending to a point near top of the divide of Dome Rock Mtns. Drainage is Eastward into the Tyson Wash which flows NW and West, emptying into the Colorado Riv. Underground water is present in Tyson Wash and some of its tributaries.

10. Geology and Mineralization: Old gold placers of the La Paz district lie 9 miles to the south. A geologic map by Jones of the U.S.Geological Survey shows granite in contact with quartz-epidote schist in this general dist., not more than 6 miles from the property. Limestone-schist contacts extend westward over the divide of Dome Rock Mountains. There are bodies of garnet-epidote tactite along the contact between the schist and limestone. No granitic rocks are exposed in the immediate area.

Limestone beds, from which the marble was metamorphosed, form prominent outcrops a short distance northwest of the mine.

There is some evidence indicating that the greatest mineralization in this area may have taken place nearest the crest or high point in the anticline, as if trapped in it and under the limestone.

11. Dimension and Value of Ore Body:

The highest-grade ore has come from the upper adit workings. Scheelite crystals to 3 inches in evidence there. The extent of mineralization in the calcareous schist has not been determined. Scheelite float is found for about 2,000 ft along the strike of the mineralized zone. The mineralized schist bed carries from 0.2 to 0.4 percent WO_3.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective leasors or buyers.

(over)

12. Ore "Blocked Out" or "In Sight": Inoperative due to poor economic outlook on tungsten. Modest development production from 1952 thru 1956 was 4,001 tons at an average grade of 0.416 percent WO_3.

Ore Probable: Further prospecting warranted as result of production on small scale todate. Believed the ore-bearing rock of the limestone area may indicate a body of tungsten of considerable magnitude.

13. Mine Workings—Amount and Condition:

	No.	Feet	Condition
Shafts			
Raises			
Tunnels			(SEE COPY ATTACHED REPORT BY SOUTHWEST EXPERIMENT STATION)
Crosscuts			
Stopes			

14. Water Supply: Wells

15. Brief History: Claims were located by Len Hogue in January, 1942, and avquired by Gold Hill Dredging Company, a corp., of San Francisco, in 1943, the present owner. Modest experimental production of about 53 tons of scheelite in 1943 and 1944, at aver. grade 0.435 percent WO_3. Since then the property has been leased to several different parties, Actual potential has, due to generally poor economic conditions, not been developed.

16. Remarks:

Eminently deserving of extensive prospecting and development soon as a more realistic domestic governmental base for tungsten is achieved.

17. If Property for Sale, List Approximate Price and Terms:

Not forsale, however, reasonable propositions for substantial development and operation under lease by qualified group or firm will receive due consideration.

18. Signature:

GOLD HILL DREDGING COMPANY

by W. S. Gilbert

Manager, Land Department

311 California St.,
SAN FRANCISCO 4, CALIF.

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 1/16/45

Name of Mine: Quartzite Tungsten

Owner or Operator: Gold Hill Dredging Co.

Address: Quartzite Ariz.

Mine Location: Near Quartzite

Filing Information

File System:

File No.:

This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production X; Development; Financing; Sale of mine;

Experimental (sampling); Owner's occasional trip;

Other (specify)

PRODUCTION: **Past and Future.**

	Tons
Approx. tons last 3 months	
Approx. present rate per 3 months	Considerable
Anticipated rate next 3 months	
If in distant future check (X) here	

EQUIPMENT OPERATED:

Type	Quantity or Horse Power	Miles or Hours Per Month	Gallons Required Per Month
Personal Cars			
Light or Service Trucks			
Ore Hauling Trucks			
Compressors	1-60 HP	200	1200
Other Mine or Mill Eqpt.	5 pieces mc hoists		900

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Tungsten

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By Chas. H. Denning