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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: YELLOW STAR MINE

ALTERNATE NAMES:
NEW DRAGON

PIMA COUNTY MILS NUMBER: 75

LOCATION: TOWNSHIP 17 S RANGE 7 E SECTION 19 QUARTER NW
LATITUDE: N 31DEG 55MIN 37SEC LONGITUDE: W 111DEG 40MIN 43SEC
TOPO MAP NAME: BABOQUIVARI PEAK - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
TUNGSTEN

BIBLIOGRAPHY:
S.B. KEITH, AZBM BULL. 189, P. 110, 1974

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PIMA COUNTY
COYOTE DIST.

✓
NEW DRAGON
Formerly Yellow Star Mine+
& Griffith Claims+

According to report of ALJ in

POMERENE MILL file the

✓
STANDARD TUNGSTEN CORP.
75 West Street
New York 6, N. Y.

owns the above property Feb. 7, 1956

RI 5650, p. 75 (1960) also
p. 64, 65, 73, 74, 129, 131
(Yellow Star)

*

REFERENCES:

SEE: USBM RI 5650 1960 pp-75

* also: pp-64-65, 73-74, 129, 131 (Yellow Star)

*

WALKER, LEWIS, (LESSEES & OPERATORS)

Aug. 6, 1954

10643 N. 15th Ave.,
Phoenix, Ariz. and
Clark, Ralph, Bud & J. H.
334 Terminal Bldg.,
Phoenix, Ariz.

MINE: GRIFFITH CLAIMS, Coyote Mining Dist., Pima Co.
On Tucson-Ajo road.

OWNER: William F. R. GRIFFITH, % Aire Engineering Co.
219 S. Olsen Avenue
Tucson, Arizona

CLARK, RALPH, BUD & J. H. (LESSEES & OPERATORS) AUG. 6, 1954

334 Terminal Bldg.,
Phoenix, Arizona and
Lewis Walker,
10643 N. 15th Ave.,
Phoenix, Ariz.

MINE: GRIFFITH CLAIMS, Coyote Mining Dist., Pima Co.
On Tucson-Ajo road.

OWNER: WILLIAM F. R. GRIFFITH, % Aire Engineering Co.
219 S. Olsen Avenue
Tucson, Arizona

TATE MINE CONTRACTING & DEVELOPMENT CO. (Operators)
2549 E. LaCienega Drive, Tucson, Ariz.

YELLOW STAR MINE (Formerly Griffith Claims) 49 Mi. W of Tucson on
Tucson-Ajo road or 24 $\frac{1}{2}$ mi. west of Three Points.
3-28-55 Coyote Min'g Dist., Pima County.
(12 Unpatented Claims)

OWNER: Wm. F. R. Griffith, % Aire Engineering Co., 219 S. Olsen Ave.,
Tucson, Ariz. 3-28-55

GRIFFITH, WILLIAM F. R., (OWNER)

Aug. 6, 1954

% Aire Engineering Co.
219 S. Olsen Avenue
Tucson, Arizona

MINE: GRIFFITH CLAIMS, Coyote Mining Dist., Pima Co.
On Tucson-Ajo road. 4 Claims.

LESSEES AND OPERATORS: Lewis Walker, 10643 N. 15th Ave., Phoenix, Ariz
Together with Ralph Clark, Bud Clark and
J. H. Clark, 334 Terminal Bldg., Phoenix, Ariz.

MINE: YELLOW STAR MINE (Formerly Griffith Claims) Coyote Dist., Pima
Co., 49 mi. W from Tucson on Tucson-Ajo Rd.
(12 unpatented claims) 3-28-55

OPERATORS: Tate Mine Contracting & Development Co., M. L. Tate, Pres.,
2612 E. Drachman, Tucson, Ariz. (12 Claims) 5-25-55
(Yellow Star Mine, Formerly Griffith Claims)

F.W.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Yellow Star Mine Date May 25, 1955
(formerly Griffith claims)
District Coyote Mining Dist., Pima County Engineer Axel L. Johnson
Subject: Mine Report, present status. Personal visit and information from M. L. Tate

Location. Go 49 miles west from Tucson on the Tucson-Ajo road, or 24-1/2 miles west of Three Points. Turn left (south) and go 5.6 miles on San Juan road. Turn left (east) and go about 1/2 mile to mining operations.

Number of Claims. 12 unpatented claims (4 of these were bought outright from Wm. Coplan, and the other 8 have been located since Jan. 1).

Owner. William F. R. Griffith, c/o Aire Engineering Co., 219 S. Olsen Ave., Tucson, Ariz.

Operators. Tate Mine Contracting & Development Co. is doing the exploration work, the development work, and the mining on a contract or a percentage basis, the terms of which are not made public. M. L. Tate is president and in charge of the operations. Address of the company is: 2612 E. Drachman, Tucson, Ariz.

Officers. M. L. Tate, President
Tate Mine Contracting & Development Co.
2612 E. Drachman, Tucson, Ariz.

Principal Minerals. Tungsten ore in the form of scheelite.

No. of Men Employed--3

Production Rate. About 1400 tons of ore has been produced the past 5 months, or about 280 tons per month from exploration and development work. Of this, less than 200 tons have been shipped to custom mills; the remaining 1200 tons have been stockpiled at the property.

Geology. See my report of March 28, 1955.

Ore Values. Mr. M. L. Tate reports that the ore in the stockpiles should run from 0.4% to 0.5% WO₃.

Milling and Marketing Facilities. No mill on the property. Nearest mill is the Papago Mining and Milling Co. mill, about 10 miles north of Sells, or a 34 mile haul. Operators have shipped some ore to the Lieberman Mill near Tucson for milling, about 53 miles from the mine.

* Present Operations. Operators are now working in the 50 ft. inclined shaft with 50 ft. of drift at bottom, ~~referred to above~~. The ore vein between the drift and the surface is now being stoped out. Operators report that they plan to discontinue operating the mine after June 12, 1955 on account of milling difficulties and lack of sufficient ore.

Present Mine Workings. See report of March 28, 1955. Since this was written, one additional open cut was opened up, worked for a while, and then abandoned. After this work was resumed in the inclined shaft (item 2). See "Present Operations" above.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Yellow Star Mine--page 2

Date May 25, 1955

District

Engineer

Subject:

Past Shipments. Operators report shipping 67-3/4 tons of ore to the Lieberman Mill near Tucson, and smaller quantities of ore to Lester Fernstrom and to the Southwestern Mining and Milling Co. mill (Harry Oswalt and Christian Klosset) and that only from 50% to 70% recovery was obtained at these mills. Total shipments have been less than 200 tons.

Stockpiles. Operators report 7 stockpiles on the property, totaling about 1200 tons of ore.

Proposed Plans. Operators plan on screening the ore in the stockpiles, preparatory to shipping to some custom mill (mill to be employed not yet decided on). The coarse material will be screened out and put on the waste pile, and the fine material will be shipped to a custom mill for treatment. This will be done prior to closing up operations on or about June 12, 1955.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Yellow Star Mine +
(formerly Griffith Claims)
District Coyote Mining Dist., Pima County.

Date Mar. 28, 1955.
Engineer Axel L. Johnson

Subject: Field Engineers Report. Personal Visit & Info. from Harry Weimar, foreman.

Location Go 49 miles west from Tucson on the Tucson-Ajo road or 24 1/2 miles west of Three Points. Turn left (south) and go 5.6 miles on San Juan road. Turn left (east) and go about 1/2 mile to mining operations.

Number of Claims -- 12 unpatented claims. (4 of these were bought outright from Wm. Coplan, and the other 8 have been located since Jan. 1st.)

Owner William F. R. Griffith, c/o Aire Engineering Co., 219 S. Olsen Ave., Tucson, Ariz.

Operators Tate Mine Contracting & Development Co. is doing the exploration work, the development work, and the mining on a contract or a percentage basis, the terms of which are not made public. Address of the company is 2549 E. LaCienega Drive, Tucson, Ariz.

Officers Harry Weimar, Mine Foreman.

Principal Minerals Tungsten ore in the form of scheelite.

Number of Men Employed 3 men

Production Rate Mr. Weimar claims a stockpile of 1000 to 1100 tons from the development work. This has been acquired in the past 3 months, or about 350 tons per month. No shipments have been made to date, and no ore has been milled yet.

Geology Country rock is quartzite, which has been highly altered and fractured. In this quartzite rock, a number of aplite dykes occur, steeply dipping (about 45 to 85 deg.) and very irregular in width, shape and outline. In a number of places, these aplite dykes have been highly altered and decomposed into a soft clay-like material. It is in this soft clay-like material that the scheelite ore is found.

In the drift, which I examined, there was exposed an aplite dyke, dipping about 50 deg., with quartzite (quite altered) found on both hanging wall and foot wall. This aplite dyke contained bands of orthoclase and quartz, a small amount of volcanic glass, and the fine clay-like material all around ~~the harder masses of material~~ these harder masses of quartz and orthoclase. The scheelite is found almost entirely in the soft, fine, white clay-like material. The width of this dyke appeared to be from 3 to 4 ft.

Ore Values Mr. Weimar reports an average grade of 0.5 % on the best part of this stockpile of about 1050 tons. The 1/4 to 1/3 of the stockpile piled separately, he believes will run a little less, or about 0.4 %.

* Milling and Marketing Facilities No mill on the property. Nearest mill is the Papago Mining and Milling Co. mill, about 10 miles north of Sells, of a 3 1/4 mile haul.

Mine Workings (1) Inclined Shaft (incl 45 deg.) --- 50 ft. deep with 100 ft. drift at bottom holing out into surface. A blanket vein --- 2 to 4 ft. wide was exposed.
(2) Inclined shaft (incl 45 deg.) --- 50 ft. deep, with 50 ft. of drift at the bottom. This was the drift examined, as referred to above. Width of vein --- 3' to 4'.
(3) About 12 to 14 rather small open cuts scattered throughout the claims.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Page 1.

Mine Griffith Claims

Date Aug. 6, 1954

District Coyote Mining Dist., Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Inf. from Lewis Walker and personal visit.

Location Go 49 miles west from Tucson on the Tucson-Ajo road. Turn left (south), and go 6 miles south on rough dirt road. Turn left (east) and go 1/2 mile to the mine.

Number of Claims 4

Owner William F. R. Griffith, c/o Aire Engineering Co., 219 S. Olsen Ave., Tucson, Ariz.

Lessees and Operators Lewis Walker, 10643 N. 15th Ave., Phoenix, Ariz., together with Ralph Clark, Budd Clark, and J. H. Clark of 334 Terminal Bldg., Phoenix, Ariz.

Principal Minerals and Metals Tungsten ore in the form of scheelite.

Number of Men Working 2.

Production Rate Intermittent and variable. Have produced and sent to the mill about 100 tons of ore since July 5--- a one months operation.

Geology and Ore Values Geology appears to be rather complex, and the ore values are scattered, generally occurring in soft clay-like material, comprising a part or all of the vein or the deposit. Four different ore horizons have been opened up to date, viz:

(1) A blanket surface deposit, one to four feet thick, lying almost horizontal, with scarcely any overburden on top, and barren quartzite rock in the bottom. The ore material is a soft clay-like substance, containing chunks of limestone and quartz, the ore values being found in the soft, clay-like material. About 100 tons of ore has been mined out from this deposit, and some ore showings are still visible on one side of the open cut. However, additional ore in this cut seems to be quite limited. Ore values in this cut have run about 0.5 % WO_3 .

(2) A pegmatite dyke, about 3ft. thick, with a strike NW-SE and a dip of 30 to 35 deg. to SW. Both footwall and hanging wall is schist. Along both the footwall and the hanging wall, there is found from 3 to 6 inches of soft, clay-like material, containing scheelite.

(3) Two parallel veins, about 40 ft. apart, with strike of NW-SE, and almost vertical dip. The width of the veins are 12 in. and 18 in. respectively, with both footwall and hanging wall being quartzite. Veins can be traced on the surface for about 100 ft. Ore values run about 1 % WO_3 .

(4) A pegmatite dyke, about 3 to 4 ft. thick. The strike is approx. E. & W., with the dip about 45 deg to the N. Hanging wall and footwall is quartzite. A streak of ore material about 8 inches wide in the center of the dyke runs about 1 % WO_3 .

Milling and Marketing Ore is hauled by trucks to the Papago Mining and Milling Co. mill, about 10 miles north of Sells. Distance of haul about 34 miles. Ore is milled at a custom ore rate of \$10,00 per ton. Concentrates have been sold to the Wah Chang Trading Co. of Bishop, Calif.

Present Operations The ore has been mined on contract, using a loader-dozer in the open cut, described under "Geology and Ore Values"---(1). At present, the operators are conducting exploration and development in areas (2), (3), & (4) in order to develop some ore reserves. They are also engaged in prospecting the area to find additional ore veins.