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## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: METATE CLAIMS

**ALTERNATE NAMES:** 

**CONFUSION GROUPS** 

LA PAZ COUNTY MILS NUMBER: 117

LOCATION: TOWNSHIP 3 N RANGE 21 W SECTION 22 QUARTER NE LATITUDE: N 33DEG 35MIN 26SEC LONGITUDE: W 114DEG 24MIN 29SEC

TOPO MAP NAME: DOME ROCK MTS SW - 7.5 MIN

**CURRENT STATUS: PAST PRODUCER** 

COMMODITY:

**MANGANESE** 

**BIBLIOGRAPHY:** 

KEITH, S.B., 1978, AZBM BULL. 192, P. 159 ADDITIONAL WORKINGS IN T3N-R21W & T4N-R21W ADMMR METATE CLAIMS FILE AZBM BULL 180, P 219

## ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

# INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

LAPAZ COUNTY

MM 1507 A Manganese 50-53% MM 1507 B Manganese

Daniels Mine MILS# 117

1-AKA

METATE Claims (FILe)

## STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Metate Claims

Date September 8, 1960

District La Paz-Quartzsite (Dome Rock) Dist.

Engineer Lewis A. Smith

Yuma County

Subject: Conference with Pete and Ed Daniels at Ehrenburg.

Pete stated that the schist and granitic rocks in the south claims, showed chrysocolla in lenticular deposits. Some ore sorted from these lenses showed 6-8% of copper. The schist is of the quartz-mica variety and the granite appears to be somewhat gneissic. Pete wanted data on where to ship the ore and was advised to send a general sample to Hayden for tests. The general character of the deposit is not clearly known, since little work has been done on it, but if it follows the usual character of like-deposits in the region it will be lenticular and hard to mine without dilution. Such deposits also are difficult to accurately sample.

This property active Feb. 1961

According to the Standard Service Station man, Jesus Daniel has been doing assessment work. No one was at the mine when visited later.

Mine Visit 10/12/66 LAS

active Mine List 1966 (2)

### STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine Metate Claims (quartz)

Date

September 15, 1959

District La Paz

La Paz (Dome Rock Mtns.) Yuma County

Engineer Lew is A. Smith

Subject:

Mine Visit (supplementary

The property is owned by Pete (Jesus) Daniel, Earnest Daniel, and Sam Daniel, all of Blythe, California.

The quartz is located about 1 mile by road south of the Metate Manganese Mine.

Work: Work consists of a bulldozer cut and a shallow cut in quartz. Two 5 yard trucks are being used to haul the quartz to a gravel crushing plant at the Colorado Bridge.

Geology: Quartz pegmatitic masses and veins in schist. No consistent trend has been established by the meager work to date.

Minerals: The quartz is being mined and crushed for roof coatings. A limited market at \$35.00 per ton has been developed in Palm Springs, California. Pete Daniel is seeking a larger market. The present high costs do not offer much hope of high profits, if any at all.

The Daniel family are all that are working the silica, 6 people in all. All manganese is down on the Metate Group.

METATE CLAIMS (file)

10-1-58

I believe that, due to past association of Hart and Jesus Daniel in the METATE CLAIMS, and since this relationship will not be dissolved until Hart and associates have paid Jesus Daniels for the METATE 4 claim, the file should be carried, for the present, as "METATE GEAIMS".

L. A. S.

HART AND DANIEL

See: MINING WORLD - Jan. 1958, p 85

See: MINING WORLD - Dec. 1958, p 58

## STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine

Metate Group

Date 1-8-59

District

La Paz - Quartzsite, Yuma County

Engineer Lewis A. Smith

Subject:

Mine Visit (Supplementary)

Five groups are active on the Metate Claims as follows:

- (1) Metate 4: McFarland and Hollinger of Salt Lake City are sinking a 50 foot shaft to the ore bed. They are now down 35 feet. The steel head frame, bin and accessories are complete (including a 3/4 yard bucket). The shaft has been løgged, or cribbed. A Hobart-Ingersall Rand hoist driven by a diesel motor, is installed. The property is leased from Hart and Associates. An Ingersall (W69, 125 PST) 4 cylinder compressor will furnish air. 4 men are working at present.
- (2) Metate 3: Jesus Daniels and Sam Daniels are operating on this claim and their combined force consists of 20 men. They are operating out of a bulldozer cut  $40^{\circ}$  wide,  $300^{\circ}$  long and up to  $40^{\circ}$  in depth. Two skipways on opposite ends of the cut, lift the ore to bins. The shafts are equipped with Chicago pneumatic air hoists and 3/4 ton skips connected by 1/2 inch cables. The ore bed which is fairly flat ( $30^{\circ}$  dip) is undercut from short drifts. The ore bed here is capped cy caliche and underlain by granite which has disseminated manganese oxides in it. An RD8 cat keeps stripping going. Air is furnished by a  $30^{\circ}$  Chicago Pneumatic Compressor. A small Trexel 3/4 yard Trackscavator was loading from a small open pit next to the south shaft. The ore is transported to a central loading ramp north of the pit by a  $2\frac{1}{2}$  yard Ford dump truck. The ore has to be lightly shot before loading.
- (3) Ernest and Bebe Daniels are operating with 13 men out of a second large bulldozer stripped pit, east of the one operated by Jesus and Sam Daniels. 2 shafts on the west and east sides of the pit furnish entry to the ore bed which is steeper and deeper than in the Jesus Daniel pit. A second RD8 is stripping waste further east. The equipment for these two shafts is dissimilar to that in the Jesus Daniel pit. Bebe Daniels has a 125 Jaejar Compressor, while Ernest has a Schram 13.

The Bebe Daniels shaft is 65 feet deep on a 40° incline, and has two drifts 40 feet to the east and 35 feet to the west, which connect to stopes. The ore is lifted by means of a skip (makeshift). The hoist is a Wisconsin WF4 and is gasoline engine driven. Ernest Daniels is mining by open pit at present, but has a shaft 45 deep to one side of the present workings. This is equipped with a Chicago air hoist.

The combined operations (Metate 3 and Metate 3 Ex.) produce about  $2\frac{1}{2}$  cars per week of ore averaging 51 plus % Mn. Some screened fines are to be sent to Ripsey for mixing and sintering. They hope to step this production up to 3 cars per week by the end of January.

## STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine

Jesus Daniels and Hart

Date 9-4-58

District

La Pag District (Yuma Co.)

Engineer Lewis A. Smith

Subject:

Mine Visit (Supplementary Report)

Owners: Jesus Daniels, and on the Metate 4 (Jesus Daniels & Charles Hart)

Claims: 3 unpatented (Metate 3, 4, & 4 Est.)

Four Groups are working on the Metate 3 and Metate  $\stackrel{3 \not\in \times}{+}$  claims as follows:

1. Ermest Daniels	(Metate 3 Ext.)	4 men
2. Sammy Daniels	(Metate 3)	7 "
3. Pete (Jesus) Daniels	(Metate 3)	5 "
h. / Joe Cornwall	(Metate 3)	4 !!
	•	20 !!

The Metate 4 is now held by Charles Hart and associates, who will pay out Jesus Daniels' interest on a royalty basis. These people are forming a company and plan a large stripping operation this winter.

Sammy and Jesus Daniel and Cornwall are working by open pit in an extensive bulldozer pit, 200 long and Y shaped. The overburden was 20-25 feet deep over most of the stripped area. The ore bed strikes NW-SF and dips NE at a flat angle (about 300 maximum) weaves and rolls somewhat. The ore is composed of Psilomelane and some manganite and pyrolusite. (The general geology is described in a previous report.

There are 4 shafts now open:

- 1. 130' shaft on Metate which has two mn. zones. Chicago pneumatic air hoist with 2' wide drum which is 2' in diameter. This is equipped with a ½" cable and a 1/2 ton skip. The surface hopper has a capacity of about 20-25 tons.
- 2. 3 shallower shafts:
  - (a) Metate 3 Ex. 35' on incline with Waugh type of air hoist.
  - (b) Metate 3 (Sammy Daniel) 40' on incline with a gasoline driven hoist (1' diameter drum and 1' wide)

The cable is 3/8 inch and is attached to 200# bucket which runs on skids. A 10 ton hopper provides storage. Stoping is carried on along two short drifts.

(c) Jesus Daniel has 2 short (25 & 30 foot) shafts, one for ventilation and one for haulage. A pneumatic hoist similar in size to the one operated by Sammy Daniel, is equipped with a 1/4 ton bucket. Both shafts are inclined.

Haulage to a central stockpile from the shafts and open pits, is done by two 8 yard International trucks. Haulage from the mine to rail head is done at intervals by Wells-Cargo at  $5\phi$  per ton mile.

The present grade of ore ranges from 50 to 55% Mn. The surface equipment

Jesus Daniels and Hart (cont.)

includes 1 - RD8 Cat, 1 - RD  $\mu$  Cat, 1 large trackscavator ( $l_2$  yards) (Toureau) and 3 smaller ( $3/\mu$  yard) (Construction Products Co.) trackscavators,  $\mu$  compressors ranging from 110 down to 75 capacities furnish air. The 110 is an Ingersal Rands. The others include 2 - 75's and one 105 (Schrams).

Jesus Daniels plans to sink an 8" churn drill hole to a depth of 200' for water and prospecting.

#### STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine

Metate Claims

Date

January

1958

District

Yuma Co.

Engineer Lewis A. Smith

Subject:

Locations:

West side of Dome Rock Mountains and 3 miles south of Highway 69-70.

Owners:

Hart, Bob Grant, and Jesus Daniel, all of Blythe, California

Part of this group, Metate #3, is down at present, but Jesus Daniel

expects to operate soon. (Probably Feb. 1st)

Lessees on the property are;

Y (1) J. Speake and Al (South of Hart-Daniels Mine)

√ (2) Earnest Daniel (East of J. Speake Lease)

Total men now employed, 12-14, but will be increased by 4-6 men when the Hart-Daniels mine reopens.

The Speake lease employees-6-8 men who are in charge of Pete Appleton. The Earnest Paniel lease employs 5-6 men.

The Speake Lease produces 20 tons, per day, at about 51-53%Mm. The coarse ore is shipped to the Texas Stock Pile and the fines to Dasco, at Wenden. Wells Cargo contracts the hauling for the area.

The Earnest Daniel lease ships variable tonnages to Mohave Mining Company's Mill, at Wickenburg. He is now mining about 20 tons, a day.

The Speake Lease is developed by a long bulldozer cut (which is 20' deep) and two shafts are 35' (west) and 25' (East), respectively. The East shaft is working a bed which strikes NE and dips NW @ 45°. The bed, here, averages 6' of thickness, at present, but varies somewhat over its total exposure.

The Earnest Daniels part of the bed is 3-4' thick and has a dip of 35-40° NW but strikes more to the east. It is developed by means of a 20' bulldozer cut and a 35' inclined shaft using a skip.

Both beds lie under a caliche bed (Locally called limestone) and they overlie granite.

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

METATE 3 & 4 - CONFUSION 1 Weaver Dist., YUMA CO. 4-4Ehrenberg

Pres. & Owner - Jesus Daniel, Box 873, Blythe, Calif.
Operator - Hart & Daniel " "
VSec. - Charles Hart " "
VSupt - Jesus Hart " "

MANGANESE - 120 tons 12 men.

L.A.S.

# DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA

#### FIELD ENGINEERS REPORT

Mine

HART & DANIEL MANGANESE MINES

Date

September 9, 1957

District

La Paz (107)

YUMA COUNTY

Engineer Lewis A. Smith

Subject:

Manganese Deposits

Location: Between Quartzsite and Ehrenburg, 3 miles south of highway and at the West foot of the Dome Rock Mountains. (T3N R21W, Sections 12, 23, 26)

The property is being worked in two divisions --

(1) Jesus Daniel (North group)

(2) J. Speake (lease from Jesus Daniel) - (South).

Daniel has 12 patented claims and several unpatented claims extending over 1 mile in length (N to S) and 3 or 4 claims wide (E to W). He is working the Daniel No. 1 group on the north end of the ore area and J. Speake is working the south group (Pete Applement is in charge of the work).

Both have been opened by wide bulldozer cuts and short shafts. Considerable stripping of fanglomerate is necessary to clear the ore in the pits. This conglomerate and sand is exposed to a depth of at least 40 feet. They have an R.D.8 Cat, slushers and 2 - 350 compressors. Appleman is sinking the present shaft and is now down 40 feet. A second shaft, 300 feet NE of the first shaft, is being collared but so far has only attained 2' to 3' of depth. The second shaft will be for ventilation and access.

Daniel is working 4 - 6 men and Appleman has 10 - 12 men, on the average. They stockpile ore for a while and then contract trucks to haul the ore to Wickenburg. However, when the new Wenden mill is ready they will probably ship to them. They have a large stockpile of 10% up to 24% low-grade ore for this purpose.

The better ore runs from 48 to 52% MnO2 and is composed of Psilomelane, Manganite and Pyrolusite. It lies in a 6' to 8' bed on the underlying granite which contains disseminated specks of manganese oxide well spaced through it within a broad shear zone. It appears as though the granite had been eroded to a peniplane. During this process the manganese dioxide was weathered out by the granite to accumulate in the bed. This process was interrupted by tilting of the granite so that the ore bed now dips about 350 to the Northeast but has a variable strike. This formed a basin between the main Dome Rock Mountains and the tilted granite mass. Later fanglomerates and sand then washed in to cover the major part of the manganese bed and the granite. Then, as the lime leached out of the fanglomerates, a layer of caliche accumulated on top of the manganese bed. This ranges from 1 to 3 feet in thickness and contains fragments of MnO2 in it. This will run low grade ore. As developed this structure has been exposed over a length of some 1100 feet but has not been bottomed, or explored to the south of the Speake lease. There appears to be a large possible reserve, as far as manganese deposits go.

Fete Daniel ships about 2 carloads a week to Wickenburg (average 50% Mn and low Silica). Appleman has accumulated about 4 cars in the process of developing and a large amount of low grade (9-24% MnO<sub>2</sub>).

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