



## **CONTACT INFORMATION**

Mining Records Curator  
Arizona Geological Survey  
1520 West Adams St.  
Phoenix, AZ 85007  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: NARRAGANSETT

ALTERNATE NAMES:

DAYLIGHT  
HILO  
YORK

PIMA COUNTY MILS NUMBER: 165

LOCATION: TOWNSHIP 18 S RANGE 15 E SECTION 25 QUARTER NE  
LATITUDE: N 31DEG 50MIN 44SEC LONGITUDE: W 110DEG 45MIN 32SEC  
TOPO MAP NAME: SAHUARITA - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

COPPER OXIDE  
SILVER  
LEAD SULFIDE  
ZINC SULFIDE  
GOLD LODE

BIBLIOGRAPHY:

ADMMR NARRAGANSETT FILE  
USGS BULL 582, P.38,52,115,128,130,131,139  
AZBM BULL 189, P. 125, 1974  
USGS BULL 1027, P. 312  
USGS PP #318, P. 103  
MAPS-ROLLED FILE BOXES, 3 MAPS  
AZ MINING JOURNAL 8/1919 P. 21 & 6/1918 P. 39  
ADMMR "U" FILE CU 15 & CU 16

NAME OF MINE:  
DAYLIGHT & NARAGANSETT

COUNTY: PIMA  
DISTRICT:  
METALS: CU

OPERATOR AND ADDRESS:  
DATE: 5/1/44 F. A. Bennett, Box 93,  
Tucson

MINE STATUS  
DATE: 5/1/44 Shipping

Date: \_\_\_\_\_

Name of Mine Daylight

Location Rosebud

Operator F A Bennett

Address Box 93 Tucson

Metals Produced Copper

Developing  Shipping

Financing  Planning Operations Soon

Idle

NAME OF MINE: DAYLIGHT & NARAGANSETT		COUNTY: PIMA
OPERATOR AND ADDRESS: F. A. Bennett, Box 93, Tucson		DISTRICT:
DATE: 5/1/44	MINE STATUS Shipping	METALS: CU
	DATE: 5/1/44	

Date: \_\_\_\_\_

Name of Mine Daylight

Location Rosemount

Operator F A Bennett

Address Box 93 Tucson

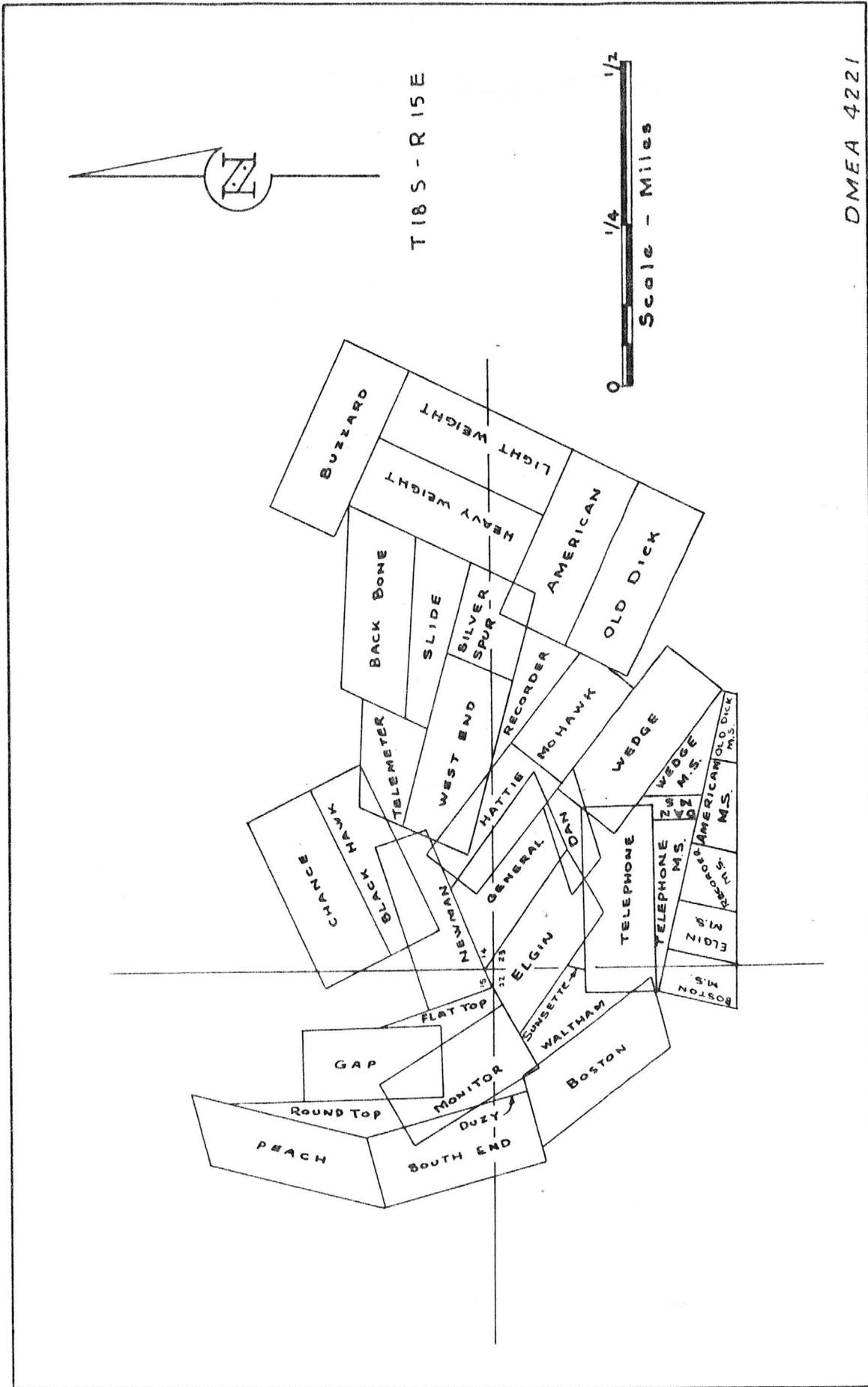
Metals Produced Copper

Developing  Shipping

Financing  Planning Operations Soon

Idle

From Elgin file



DMEA 4221

FIG. -2A - REVISED CLAIM MAP, LEWISOHN COPPER CORP.  
PIMA COUNTY, ARIZONA





DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Narragansett Mine

Date March 12, 1963

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Jose Carillo

Location: About 3 miles SE of Helvetia. The easiest way to reach the property is now from the east side i.e. from the Mountain View road. Take Hwy. #83 (Mt. View-Sonoita road) about 22 miles east of Tucson, and drive south for 12 miles. Turn right (west) at sign "Rosemont Cow Camp," and drive 6 miles to the mine gate. Stop at the mine gate and walk remaining 1/4 mile to the mining operations (too steep to drive).

Number of Claims: 8 patented claims & 7 unpatented claims.

Owners: C. Darrel Wilson, et al, 909 Phoenix Title Bldg., Tucson, Ariz.

Lessee: R.C. Bruce, 420 W. Prince Road, Tucson, Ariz.  
Jose Carillo, foreman.

Principal Minerals: Copper ore -practically all oxides.

Present Mining Activity: Open cut mining operations. 4 men working. Production about 50 tons per week. Operations started about 2 weeks ago (Feb. 25).

Ore Values: Mr. Bruce reports an average of about 4% copper, with 54% silica. This will therefore not qualify it for a flux ore.

Marketing: The ore is being hauled on contract by Jack Derrall to Sahuarita, and shipped from there to the Inspiration Co. smelter at Miami.

4

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Narragansett Mine

Date Feb. 28, 1961

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from C. Darrel Wilson.

References Report of Feb. 20, 1961 & previous reports.

Present Status The mine was closed down a few days ago. The closing is reported to be permanent. Mining equipment used at the mine will be stored in Tucson.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine ' Narragansett Mine

Date Feb. 20, 1961

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from C. Darrel Wilson.

References Report of Sept. 26, 1960 and previous reports.

Present Mining Activity Mining copper ore. Production about 2 carloads per month, or about 140 tons per month. Ore shipped averages about 8 % copper.  
4 men working --- 5 days per week.

15

**DEPARTMENT OF MINERAL RESOURCES**  
STATE OF ARIZONA  
**FIELD ENGINEERS REPORT**

Mine Narragansett Mine

Date Sept. 26, 1960

District Helvetia District, Pima County

Engineer Axel L. Johnson

Subject: Present Status. Information from C. Darrel Wilson

References: Report of Jan. 26, 1960 and previous reports.

Present Mining Activity Mining copper ore. Production about 1 carload per month, or about 70 tons per month. Ore now shipped averages about 8 % copper.  
3 men working.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Narragansett Mine Date Jan. 26, 1960  
District Helvetia District, Pima Co. Engineer Axel L. Johnson  
Subject: Present Status. Information from C. Darrel Wilson, Manager

References: Reports of Sept. 29, 1959, Apr. 7, 1959 and Oct. 29, 1958.

Number of Claims: 8 patented and 7 unpatented claims.

Owners: C. D. Wilson Mining, Inc.  
2239 La Mirada, Tucson, Arizona

C. Darrel Wilson, Manager  
Hercel Hickman, Mine Foreman

Principal Minerals: Oxidized copper ore, with high lime values.

Present Mining Activity: Producing high lime flux ore and shipping to the A.S. & R. smelter at Hayden. Production about 3 carloads of ore, about 180 tons, per week. Operations were resumed yesterday, after being closed down since Aug. 12, 1959.



DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT



Mine Narragansett Mine

Date Sept. 28, 1959

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from C. Darrel Wilson, Manager. No Visit.

References Reports of Apr. 7, 1959, and Oct. 29, 1958

Present Status. Mine is reported as being closed down indefinitely.  
Last carload of ore reported shipped on Aug. 12, 1959.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine : Narragansett Mine

Date April 7, 1959

District Helvetia District

Engineer Axel L. Johnson

Subject: Field Engineers Report - Information from Hercul Hickman

Location: Near Helvetia

Number of Claims: 8 patented claims and 7 unpatented claims.

Owner: C. D. Wilson, Box 102, Sahuarita, Ariz.  
Darrel

Operator: C. D. Wilson, 123 N. Plumer, Tucson, Ariz. ----- Manager  
Hercul Hickman, 613 N. Benton Blvd., Tucson, Ariz. ----- Mine Foreman.

Principal Minerals: Oxidized copper ore, with high lime values

Present Mining Activity: Open pit mining by means of shovels and trucks. 7 men working 1 shift, 5 days per week. Production now about 3 carloads per day, 15 carloads per week, each carload averaging about 60 tons. Shovel now working 60 to 70 yd. north of location of operations on Oct. 29, 1958, the date of last report and along the same ore bank.

Geology: Ore found along the contact with the limestone and the intruding igneous rock. Ore is predominantly malachite and azurite, in a high lime gangue.

Ore Values: Mr. Hickman reports that the ore runs about 2.5% copper. This ore runs from 10 to 30% in lime, averaging about 20%.

Milling & Marketing Facilities: The ore is shipped to the A. S. & R. smelter at Hayden, Ariz. as high lime flux. Ore is hauled by trucks to Sahuarita for shipment to Hayden. 3 trucks are used -- 1 owned by the operator and the other 2 trucks by Henry Schroeder of Tucson, hauling on contract.

Equipment used:

- 2 Diesel shovels, used alternately
- 1 DC Caterpillar bulldozer
- 2 315 cfm Air Compressors
- 1 TD 9 front end loader
- 1 TD 4 " " "
- 1 Double drum 1½ yard Dragline (Northwestern Machinery Co.)

Additional: The "comparative blue test" is used for the determination of the approximate amount of copper in ore samples taken (see description of this test in my report of Oct. 29, 1958).

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

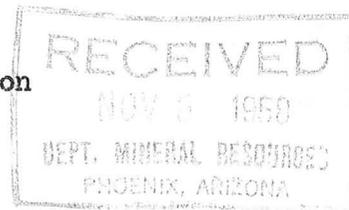
Mine Narragansett Mine

Date Oct. 29, 1958

District Helvetia District (Rosemont?)

Engineer Axel L. Johnson

Subject: Field Engineers Report



Location Near Helvetia.

Owner C. D. Wilson, Box 102, Sahuarita, Ariz. - <sup>father</sup>  
Operator C. Darrel Wilson, 123 N. Plumer, Tucson, Ariz. ----- Manager  
✓ Hercel Hickman, 613 N. Benton Blvd., Tucson, Ariz. ---- Mine Foreman.

Principal Minerals Oxidized copper ore, with high lime values.

Present Mining Activity Open pit mining operations by means of shovel and trucks.  
7 men working one shift. Production about one carload per day.

Geology Ore found along the contact with the limestone and the intruding igneous rock.  
Ore is predominantly malachite and azurite, in a high lime gangue.

Ore Values C. Darrell Wilson reports that the ore averages from 2.5 % to 3.0 % Copper,  
and that this copper ore runs from 8 % to 10 % lime.

Additional C. Darrel Wilson uses the "comparative blue test" for the determination of  
the approximate amount of copper in ore samples, which he takes during the mining opera-  
tions. This is done with the reagents nitric acid and ammonia, as follows:

- (1) The sample is crushed in a small jaw crusher, set to grind as fine as possible.
- (2) The crushed material is screened through hand screens to a fineness approximating 100 mesh.
- (3) A measured amount of this screened material is used for the determination, and 2 parts of nitric acid is added. This ~~is~~ mixture is boiled for 2 minutes.
- (4) One part of water is now added, and the solution is allowed to cool for 3 minutes.
- (5) Three parts of ammonia is added to the solution, after which it is filtered through filter paper.
- (6) The resulting solution is placed in a test tube, and compared with a test tube containing 2.31 % copper, as determined by previous assay, as to the intensity of the blue color.

Mr. Wilson claims he can determine the amount of copper in the tested sample to within 0.25 % by this method. If the tested sample proves to have as much or better copper values as the 2.31 % sample it is compared with, then he judges it of high enough grade for shipping to the smelter, whereas, if it shows lesser values, he judges it too low a grade for shipping.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Narragansett ✓

Date Sept. 12, 1958

District Helvetia District, Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report, Information from R. H. Harris. No Visit.

Location: About 3 miles SE of Helvetia.

Lessee & Operator: ✓ C. D. Wilson, Box 102, Sahuarita, Arizona.

Principal Minerals: Oxidized copper ores, with some sulphides.

Present Mining Activity: Mining ore from open cut. Production has been reported to be about 1 carload of ore per day. 6 to 7 men working in open cut. 3 to 4 men hauling ore to Sahuarita. Total 10 men.

Ore Values: Reported as averaging 2.5 to 3.0 % in copper, with fairly high silica content.

Marketing Facilities: Ore is shipped to the A. S. & R. smelter at Hayden, Arizona.

Mine Workings: Deep open cut at the top of a hill.  
Open pit mining operations used.

Remarks: Will visit the property in the near future for more detailed information.

ARIZONA DEPARTMENT OF MINERAL RESOURCES  
MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA

July 3, 1958

To the Owner or Operator of the Arizona Mining Property named below:

✓  
Naragansett & Daylight (Pima County)  
(Property)

✓  
Copper  
(ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

*Frank P. Knight*

FRANK P. KNIGHT,  
Director.

Enc: Mine Owner's Report

DAYLIGHT MINE

PIMA COUNTY  
ROSEMONT DIST.

F. A. Bennett - Lead-Zinc ores; Copper-Zinc show is best.

Examined by Messrs, Hernon and Kuhn on March 10, 1945 and by W. R. Jones on May 20, 1948/

Mr. Jones considered this property of no interest.

Addendum by G. J. Duff - May 21, 1951: I visited this property two or three times in 1946, 1947, and 1948. During this time Mr. Bennett did considerable prospecting and development work, including a winze at some distance from the portal of the main tunnel. From this winze area and from the main tunnel he has shipped to Eagle-Picher's Sahuarita mill ;ossibly eight or nine carloads of ore. Nothing of any size was encountered and it is my understanding that no owrk is currently being done there.

STATUS OF DORMANT MINES

MINE NAME: Narragansett & Daylight  
LOCATION: Prima county 18 miles S W Mountain View  
OWNER AND/OR LEASEE: owner of one leasor of other  
ADDRESS: Box 93 Tusson Ariz  
APPROXIMATE PRODUCTION (Year of 1945): 446

COPPER 15000 Lbs. LEAD 14000 Lbs.  
ZINC 42000 Lbs. (OTHER) \_\_\_\_\_

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out.
- (B) Increased costs, but have quantity similar to past grade of ore.
- (C) Too close a margin to develop more ore.
- (D) B C

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at  $22\frac{1}{2}\phi$  plus 5¢ premium..... 1,000,000 Lbs.  
Copper at  $22\frac{1}{2}\phi$  plus 10¢ premium..... 1,500,000 Lbs.

If you do not have ore ready to mine please discuss the following:

- (A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?

yes

- (B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?

yes not less than 5¢

(C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

yes

(D) Or would you prefer a loan plan similar to the arrangements during World War II?

loan plan would help

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above:

Stage 1

SUGGESTIONS:

had a \$12,000.00 RFB loan  
and paid for it out of  
production - are nearly shut  
down, 3 corloods. 49 - no profit

DATE

8-17-50

SIGNATURE

F A Bennett

## DEPARTMENT OF MINERAL RESOURCES

TO ALL PRODUCERS OF COPPER, LEAD and ZINC IN ARIZONA:

This department and others are making strenuous efforts to bring about legislation which will help ameliorate the restrictions and difficulties faced by the producers of copper, lead and zinc, and other strategic minerals.

To assist in these efforts it is advisable that we have an authentic survey of the results of the President's veto of the Allen Bill, and the results that would take place if a new bill, such as the Russell Bill, were passed by Congress. The Russell Bill includes all strategic minerals.

While we have all learned to love questionnaires just as we love stomach ulcers, will you please give the answers in your best judgment to the following questions:

1. What was your approximate production in pounds per month for the period preceding the President's veto of the Allen Bill?

(Copper 7000 Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

2. What has been your average production per month since that veto has affected your price?

(Copper none Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

3. What is your estimate of your production per month for the first few months of 1948 if prices remain as they are now and no premiums are in effect?

(Copper none Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

4. What is your estimate of production per month if some incentive plan such as the Russell Bill were in effect?

(Copper 7000 Lbs.) (Lead \_\_\_\_\_ Lbs.) (Zinc \_\_\_\_\_ Lbs.)

5. General remarks: cannot operate at  
Present Price  
J. A. Bennett

An addressed envelope is enclosed for your convenience, but you will have to help with the stamp.

Yours very truly,

*Chas. H. Dunning*

Chas. H. Dunning  
Director

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 7/14/45
Name of Mine: Douglas, Maryannett
Owner or Operator: J.H. Bennett
Address: Box 93, Tucson
Mine Location: Rosemont Dist

Filing Information

File System

File No.

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

PRESENT OPERATIONS: (check X)

Production [checked]; 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

Anticipated rate next 3 months

If in distant future check (X) here

EQUIPMENT OPERATED:

Table with 4 columns: Type, Quantity or Horse Power, Miles or Hours Per Month, Gallons Required Per Month. Includes entries for Personal Cars, Light or Service Trucks, Ore Hauling Trucks, Compressors, and Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

Copper, lead zinc

REMARKS:

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By: [Signature]

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date 6/27/45
Name of Mine Daylight
Owner or Operator J.A. Bennett
Address Box 93, Tucson
Mine Location Koenigshausen Mng Dist

Filing Information

File System

File No.

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

PRESENT OPERATIONS: (check X)

Production [checked]; 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

Anticipated rate next 3 months

If in distant future check (X) here

EQUIPMENT OPERATED:

Table with 4 columns: Type, Quantity or Horse Power, Miles or Hours Per Month, Gallons Required Per Month. Includes rows for Personal Cars, Light or Service Trucks, Ore Hauling Trucks, Compressors, and Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

REMARKS:

# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

Date..... 3/27/45  
 Name of Mine..... Daylight & Garapansett  
 Owner or Operator..... Fred A Bennett  
 Address..... Box 93 Tucson  
 Mine Location..... Helvetic

**Filing Information**

File System.....  
 File No.....  
 This chart to be used for gallons of gasoline required per month.

**PRESENT OPERATIONS:** (check X)

Production ; 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 .....  
 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	<u>Eng Road 7hp</u>	.....	<u>2400 gal/mth</u>
Other Mine or Mill Eqpt.	.....	.....	.....

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

Copper lead zinc

**REMARKS:**

.....  
 .....  
 .....

**ARIZONA DEPARTMENT OF MINERAL RESOURCES**

By..... George A. Sullivan

DEPARTMENT OF MINERAL RESOURCES

REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 1/13/45
Name of Mine: Margaret
Owner or Operator: Jean Laguerre
Address: Cresterville
Mine Location: Rosemont - near Cresterville

Filing Information

File System:
File No:
This chart to be used for gallons of gasoline required per month.

PRESENT OPERATIONS: (check X)

Production; Development; Financing; Sale of mine;
Experimental (sampling); Owner's occasional trip;
Other (specify)

PRODUCTION: Past and Future.

Tons

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

EQUIPMENT OPERATED:

Table with 4 columns: Type, Quantity or Horse Power, Miles or Hours Per Month, Gallons Required Per Month. Includes entries for Personal Cars, Light or Service Trucks, Ore Hauling Trucks, Compressors, and Other Mine or Mill Eqpt.

PRODUCT PRODUCED OR CONTEMPLATED: Name metals or minerals.

REMARKS:

This man is employed by J.A. Bennett who is producing copper and ore. Recommended

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By:

George A. Keller

# DEPARTMENT OF MINERAL RESOURCES

## REPORT TO OPA ON ACTIVE MINING PROJECT

Date: 12-23-44  
 Name of Mine: Maryannett & Daylight  
 Owner or Operator: J. A. Bennett  
 Address: Box 93 Tucson  
 Mine Location: Rosemont Dist 30 mi S Tucson

**Filing Information**

File System.....  
 File No.....  
 This chart to be used for gallons of gas-  
 oiline required per month.

**PRESENT OPERATIONS:** (check X)

Production ; 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 .....  
 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	<u>42 Chrysler</u>	<u>7000</u>	<u>134</u>
Light or Service Trucks	.....	.....	.....
Ore Hauling Trucks	.....	.....	.....
Compressors	.....	.....	.....
Other Mine or Mill Eqpt.	.....	.....	.....

**PRODUCT PRODUCED OR CONTEMPLATED:** Name metals or minerals.

Lead zinc copper

**REMARKS:**

The Bennett has been producing ore from  
these properties for past two years. First  
allowments asked for is same as usual

ARIZONA DEPARTMENT OF MINERAL RESOURCES

By: George Ballman

*File with Denn Shattuck*

# Shattuck Denn Mining Corporation

DEN BRANCH—BISBEE, ARIZONA

## ORE SETTLEMENT

SHIPPER **F. A. Bennett**

*Box 93, Tucson*

8-18-44

NAME OF MINE: **Daylight**

*Leased from Leeward*

MILL LOT NO. **76**

Car Number	Date Received	Shippers Lot Number	Pounds of Ore			Net Dry Tons
			Wet	% Moist.	Dry	
3.P. 92558	8-10	6	128520	1.9	126078	62.089
<b>TOTALS</b>						

**PAYMENTS:**

Gross Assay	Gross Units of Metals	Per Cent Paid For	Units of Metal Paid For	Metal Prices	Amounts
Gold .020 Ozs.	1.261 Ozs.	79.46	1.002 Ozs.	\$ 32.44511	\$ 32.51
Silver 2.89 Ozs.	182.18 Ozs.	80.37	146.42 Ozs.	.693143	101.49
Copper 1.85 %	2332 Lbs.	74.57	1739 Lbs.	.0559	97.21
Lead 18.35 %	19353 Lbs.	81.62	15798 Lbs.	.0494	780.27
Zinc 21.00 %	26476 Lbs.	75.88	20011 Lbs.	.0796	1592.80

<b>TOTAL PAYMENTS</b>					2634.36
<b>DEDUCTIONS:</b> Concentrates Freight				191.32	
Transportation Tax				11.16	
Concentrates Treatment				698.11	
Milling				204.48	1105.47
<b>NET MILL VALUE</b>					1498.89
Processing Fee ( 20% of Net Mill Value)					299.78
<b>NET SETTLEMENT VALUE</b>					1199.11
Ore Freight..... <i>64.26</i> .....Wet Tons @ \$1.03.....				61.25	
Ore Transportation Tax				1.05	66.19
<b>BALANCE DUE SHIPPER</b>					1132.92
					<i>Less 10% Royalty</i>
					113.79
					1019.63

Made By.....

Approved By.....

177

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Hilo Consolidated Date January 20, 1943  
Daylight & York  
District Group of Copper Claims Engineer A. Macfarlane  
Rosemont, Helvetia, Pima County, Arizona  
Subject:

Complying with your instructions of December 29, 1942 to examine the group of copper claims above named, I met Mr. Fred A. Bennett, the lessee of said claims in Tucson, January 1, 1943.

Early in the morning Mr. Bennett and the writer drove to Rosemont and to near the main tunnel on the Daylight claim and commenced the examination.

History: Of these claims dates back to 1880 as about that period much claim locating and development occurred; the old Helvetia group of copper claims from two to four miles westerly from the Daylight group, had come into prominence, a smelter having been built and a narrow gage railroad soon followed, connecting the Helvetia holdings to the smelter.

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The Daylight group of three claims being part of the total fifty odd claims consolidated into the Rosemont Development Company.

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Former Mining: On the several mining claims being acquired by the Lewishons, mine development at all their most promising veins proceeded and a vertical copper matting stack was erected, down the gulch about 3 miles easterly from the center of the mining claims, at the place called Rosemont, here office hotel and village erected.

The Rosemont 50 ton copper stack was blown in about the end of last century, and worked intermittingly until about 1903, in all not over 25,000 tons ore were smelted. Mr. Wm. Kemp still alive and a resident of Tucson, was the superintendent.

The ores feeding the smelter were waggoned and mostly packed from 3 to 5 miles, various mines of the Rosemont group producing this tonnage, the general grade of same being about 7% Cu. and a little gold and silver.

On closing this small smelter, the Company then shipped a quite large quantity of the better grade ores to Bisbee and later to Douglas, on the large Copper Queen copper smelter being completed there.

Along about 1905 the Lewishons took over the large low grade Miami mine, and then by 1912 stopped all work for the account of the Rosemont Company, but gave some leases.

Mr. Schofield, an employee of the Rosemont Company, obtained a lease on the Daylight group and shipped ore from this property, up to about 1918, when the Rosemont Company stopped all leasing operations on their entire group.

All the claims of the Rosemont group were patented many years ago and although several good bodies of copper were in sight within the mine workings and bold croppings, no further leases were given until within this past year.

Newhiem and Walcott of Bisbee obtained a lease from the Lewishon Estate on one of the Rosemont holdings. The King, Exile and Bonnie Blue Group, situated just under the range crest on the Helvetia or west slope of the Santa Rita Mountains.

The Walcott interests are shipping copper ores from this group for the past several months.

Owing to its more favorable location and large ore croppings the Daylight claim of what shall be known hereafter in this report as the Bennett Group, was given some systematic development by the old Rosemont Company.

More ore was mined and shipped from this group during the early history of the Rosemont Company, than from any of their other claims of this vicinity.

Mineral Occurrence: Of the Daylight Bennett Group apparently follows a distinct contact between a light gray limestone which forms a body about 1/2 mile wide from the northwest side line of Daylight, the southeast limits of this lime formation again contacts with igneous formations composing the range crest in this locality.

The long axis of this lime body is approximately from south to north and is probably over 2,000' thick and several miles in length. The same limestone and in which is found the principal copper bodies are found in the Helvetia or west slope of the range, but certain mine workings on these western foothills, bottomed the limestone in 100' to 400' of depth.

The escarpments and deepest mine developments up higher on the range wherein is situated the Bennett Group (Daylight) evidences this lime belt to an approximate depth of 2,000'.

Powerful intrusive elements have uptilted the limes; dips of 40 to 80 degrees are noted along the metamorphosed contacts, these dips are towards the west and southwest.

The apparent casing rocks along the northeast side line of the Daylight claim and extending northerly, are monzanite and a small body of quartzite.

The copper ores are made in the lime but close to the above stated contact; the general course of the ore shoots being north 45 degrees west and dipping from 40 degrees to 80 degrees towards the southwest.

Daylight Bennett Group Development: A main tunnel driven into the thick of the mountain on a course of north 80 degrees west cut the first or footwall ore lenze at 100' west of portal, thence along the same course for 200' in all 300' from portal.

At point 150' north of portal the main or center ore lenze was found and a drift tunnel turned here followed the vein nearly 150' along a strike of north 38 degrees west.

Near the junction of these tunnels a winze was sunk to a depth of about 80' following down a shoot of copper oxide ore containing occasional boronite and chalcopyrite; also some drifting to the northwest from near the bottom of this winze was accomplished and stoping overhead started.

The largest stopes are above the main tunnel and one of these about 200' in from portal has connected with a surface prospect shaft and small glory hole, all on ore.

At a point about 200' in from portal, across cut driven 15' northerly cut the hanging wall ore lenze and this has been drifted for 50' all opening up a 2' vein of copper oxide and carbonate of a content from 5% to 10% Cu.

Returning to the surface and croppings of these claims and following up steeply the northwest course, there are several cuts and stopes made on the croppings.

These surface developments are on three separate veins or lenzes more or less paralleling each other but showing horses or stratas of lime between the ore bodies.

However from 200' to 800' northwesterly from tunnel heading the surface and near surface stopes evidence the ore shoots to be wider than the ore shoots opened in the tunnel.

I am of the opinion the larger ore bodies will be found by extending the proper tunnel northwesterly some 800' and drive cross cuts therefrom to cut under the near surface showings at about a depth of 200' vertically below the main surface ore deposits.

Adjoining Mine: Contiguous on the north-west end of the Daylight Bennett Group, is the Naragansett Bay Group also leased to Mr. Bennett. A study of the ore shoots of the Naragansett are essential in order to visualize the extent of the mineralization of this entire group of claims.

A 45 degree incline sunk below the Naragansett tunnel floor to a depth of about 300' on this dip, also much stoping entered the Daylight and York ground.

I examined this incline and found the vein to be upwards of 10' in width carrying principally copper sulfide, zinc and heavy in black iron. A portion of this ore was of shipping grade for copper content.

Mine Development: In consideration of the fact that these mines have not been worked since 1918, their workings require both cleaning and retimbering and it is most important that the proper tunnel heading be advanced several hundred feet along the northwest course of the copper system and sufficient cross-cutting together with two or more upraises made to connect with some of the deepest prospect shafts or glory holes, all now showing commercial width and grade of copper.

This proposed tunnel advance should also connect with the Narragansett old workings which were driven into the Daylight ground.

The Daylight tunnel is the most economical tramming route for not alone the Daylight group ores but also for the Narragansett ores.

Estimate of Ore Reserves: The proposed development will no doubt open a mine of commercial magnitude, not only of ores of smelter grade but a large tonnage of mill grade is now in evidence.

The almost continuous stopes in the Narragansett mine, the ores of which are of the same occurrence as the Daylight ores, these stopes are fully 500' in combined length.

This ore body extending from the end line of the Daylight for 500' into the Narragansett, gives a probable length for the two claims, or ore now partly developed of 1200 to 1300' times an average unstoped back of 200' and a width of 7' in the two combined distinct veins, giving a probable tonnage of around 65,000 tons, as the probable smelter grade ore above the back of the Daylight tunnel.

The Northwest extension of the Narragansett vein broadens into a low grade body of copper carbonate fully 60' wide but with yet to meagre development, to allow of a tonnage estimate.

The continuation downward below the Daylight tunnel of the smelter grade copper ores, should add greatly to the ore reserves.

Copper sulfides should be reached within 200' below the present oxide carbonate zone; the lower incline level of the Narragansett workings although nearly 200' higher than Daylight tunnel, are filled with sulfides.

The above description covers only the Daylight and part of the Narragansett copper veins.

Olcott Vein: This vein found approximately 100 feet northwest of the York end line, a shaft sunk on about 2' of ore to a depth of 50' together with a small amount of stoping, the ores of this small opening shipped by the writer during 1937, assayed as an average 15% copper and 20 ounces silver, approximately 100 tons were mined and sold.

The Olcott vein strikes about southwest and within 150' southerly from the Olcott shaft enters the Hilo Consolidated ground. In addition to the

shaft there are three cuts to a depth of 10' below the cropping, exposing a vein approximately 5' wide, samples therefrom assaying 5% copper and about 10 ounces silver.

The proposed continuation of the Daylight tunnel if extended 200' northwesterly beyond the Narragansett vein, would cut the Olcott vein near the fifty foot shaft.

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Summary: The Daylight Bennett claims are of certain immediate value, as considerable smelter grade ores can be mined and sold on mucking out the main tunnel and doing some retimbering, this before the development work recommended is made.

The operation of the Daylight together with the Narragansett, places a much higher value on both properties, as ore bodies now common to both the properties, can be worked without conflict of ownership.

The probabilities of developing wider bodies of pay ore are good, I would expect this entire group to be a legitimate basis for a 200 ton mill unit, after advancing the development sufficiently to thoroughly prospect the present indicated ore bodies.

Respectfully submitted,

A. Macfarlane

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine HILO CONSOLIDATED,  
DAYLIGHT & YORK  
GROUP OF COPPER CLAIMS

Date January 20th, 1943

District Rosemont, Helvitia, Pima County, Ariz.

Engineer A. Macfarlane

Subject:

Department Of Mineral Resources,  
413 Home Builders, Bldg.  
Phoenix, Arizona.

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STATE OF ARIZONA  
FIELD ENGINEERS REPORT

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District GROUP OF COPPER CLAIMS. 2 Engineer A. Macfarlane  
Subject: Rosemont, Helvitia, Pima Co. Arizona.

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DAYLIGHT & YORK  
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DAYLIGHT & YORK  
District GROUP OF COPPER CLAIMS

Date January 20, 1943  
Engineer A. Macfarlane

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4

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Mine HILLO CONSOLIDATED  
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District GROUP OF COPPER CLAIMS

Date January 20, 1943  
Engineer A. Macfarlane

Subject: Rosemont, Helvitia, Pima Co. Ariz.

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DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
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Mine HILO CONSOLIDATED  
DAYLIGHT & YORK  
District GROUP OF COPPER CLAIMS

Date January 20th, 1943

Engineer A. Macfarlane

Subject: Rosemont, Helvitia, Pima Co. Ariz.

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Respectfully submitted.

A. Macfarlane .

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
**BUREAU OF MINES**  
 ARIZONA DISTRICT

**MINE WORKINGS ADJACENT TO  
 BOUNDARY LINE**

OF NARRAGANSETT MINE AND DAYLIGHT, YORK, HILLO CON.  
 CLAIMS OF ROSEMONT COPPER CO.  
 HELVETIA MINING DISTRICT  
 PIMA COUNTY, ARIZONA

SCALE: 1" = 30'

FROM MAP BY E. B. CORBET. NOVEMBER, 1922

Note:  
 Traced 12/24/42.

