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Arizona Department of Mines and Mineral Resources Mining Collection

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PRINTED: 09/04/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: THREE C RANCH MINE AND MILL

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 714

LOCATION: TOWNSHIP 10 S RANGE 16 E SECTION 27 QUARTER E2
LATITUDE: N 32DEG 32MIN 03SEC LONGITUDE: W 110DEG 41MIN 34SEC
TOPO MAP NAME: CAMPO BONITO - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
UNKNOWN

BIBLIOGRAPHY:
ADMMR ~~1~~ C RANCH MINE AND MILL FILE
THREE

09/14/95

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: THREE C RANCH MINE AND MILL

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 714

LOCATION: TOWNSHIP 10 S RANGE 16 E SECTION 27 QUARTER E2
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ADMMR 3 C RANCH MINE AND MILL FILE

3 C Ranch Mine & Mill

Pinal County

TRANS-ARIZONA HAS purchased Mary West's Mill and is moving it to their property near the Lake Shore Mine.

George Freeman and Jim Mason (Mason is from Canada) are two key men in this Arizona operation.

FPK 10-20-59

Jim Mason, President, TRANS-ARIZONA

FPK 2-26-60 See: LAKESHORE MINE (file)

DECEMBER 1959

REFERENCE 4 F4< USOM FILE, CLUSTER # 465

EXPOSED ABOUT 1/2 MILE SOUTH OF MINE IN A LARGE POOL.

RECORD IDENTIFICATION:

*REPORTER(SUPERVISOR) G2 < GEST, DON E.
(last, first, middle initial)

SYNONYMS All MARY WEST

* MINING DISTRICT/AREA A30 ORACLE DISTRICT

PHYSIOGRAPHIC PROV. A63<1.24. STATE A50<A2.

DRAINAGE AREA A62 1,505,010.0 ft. Lower Colorado

QUADRANGLE NAME A90< CAMPO BONITO (1972)>

SECOND QUAD NAME A92< MAMMOTH (1948)>

ELEVATION A107<53.60 M.F.T.>

NORTHING A120<3.59.9.4.0.0>

EASTING A130 < 5, 2, 4, 2, 8, 0, >

ZONE NUMBER A110<1+12>

ACCURATE ACC (circle)

ESTIMATED ~~EST~~ LOCATION OF MARY WEST MINE ON

1948 MAMMOTH QUAD USED, NOT SURVEYED

* LATITUDE A70: N

*LONGITUDE ASD < W >

TOWNSHIP(S) A77<0105:Y:Y:Y:Y>

SECTION(S) A79 30

SECTION FRACTION(S) A76 NE OF SE

MERIDIAN(S) ABIK GILA AND SALT RIVER

POSITION FROM NEAREST PROMINENT LOCALITY A82 1 1/2 MILE NNE OF RICE PEAK, IN SOUTH FORK OF PEPPER SAUCE WASH

LOCATION COMMENTS A03 (USDM GIVES LOCATION FOR THREE CRANCH MINE IN SECTION 3) 3 MILES EAST OF

MARY WEST MINE LOCATED ON MAMMOTH QUADRANGLE. CAMPO BONITO QUADRANGLE HAS NO MINE IN FIELD.

ESSENTIAL INFORMATION

ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

COMMODITIES PRESENT C10 C.U., A.G., A.U., P.B.

ORE MINERALS C30 GALENA

COMMODITY SUBTYPES C41

GEN. ANALYTICAL DATA C43

COM. INFO. COMMENTS C50

* SIGNIFICANCE

PRODUCER

MAJOR PRODUCTS MAJOR P.B., A.U.,

MINOR PRODUCTS MINOR A.G., A.U.,

POTENTIAL PRODUCTS POTEN

OCCURRENCES OCCUR

NON-PRODUCER

MAIN COMMODITIES PRESENT C11

MINOR COMMODITIES PRESENT C12

OCCURRENCES OCCUR

* PRODUCTION

PRODUCER

PRODUCTION YES (circle) PRODUCTION SIZE SMALL MED LG (circle one)

NON-PRODUCER

PRODUCTION UNDO NO (circle one)

* STATUS

PRODUCER

STATUS AND ACTIVITY A20 4

NON-PRODUCER

STATUS AND ACTIVITY A20 4

EXPLORATION OR DEVELOPMENT

DISCOVERER L20

YEAR OF DISCOVERY L10

NATURE OF DISCOVERY L30 B

YEAR OF FIRST PRODUCTION L40 1955

YEAR OF LAST PRODUCTION L48

PRESENT/LAST OWNER A12 MARY WEST, 1958

PRESENT/LAST OPERATOR A13

EXPL/DEV. COMMENTS L110 JOE NAVARRO OPERATED IN 1957 MARY WEST HAD HUNDREDS OF CLAIMS IN THE AREA. ANE ADMR REPORT SAYS 400, ANOTHER 800. LEE BOYER MILL SUPERINTENDENT, 1957

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 VEIN

DEPOSIT FORM/SHAPE M100 LENSE-LIKE

DEPTH TO TOP M20

DEPTH TO BOTTOM M30

DEPOSIT SIZE M15 SMALL M15 MEDIUM M15 LARGE (circle one)

STRIKE M70

DIRECTION OF PLUNGE M100

DEP. DESC. COMMENTS M110 VEINS 3 TO 4 FEET WIDE - VEIN WIDENS TO LENSE-LIKE BODIES OF ORE

MAXIMUM LENGTH M40

MAXIMUM WIDTH M50 4

MAXIMUM THICKNESS M60

DIP M80

PLUNGE M90

UNITS M41

UNITS M51 FT

UNITS M61

DESCRIPTION OF WORKINGS

Workings are: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one)

DEPTH BELOW SURFACE M160

LENGTH OF WORKINGS M170

DESC. OF WORK. COM. M220 1 INCLINE SHAFT, 30 DEGREE DIP, 311 FT. DEEP STOPPING AT 160 FT

OVERALL LENGTH M190

OVERALL WIDTH M200

OVERALL AREA M210

UNITS M191

UNITS M201

UNITS M211

GEOLOGY

AGE OF HOST ROCK(S) K1 P.R.E.C.

HOST ROCK TYPE(S) K1A SLATE, QUARTZITE

AGE OF IGNEOUS ROCK(S) K2 L.C.R.E.T.-T.E.R.T.W.

IGNEOUS ROCK TYPE(S) K2A GRANODIORITE PORPHYRY

AGE OF MINERALIZATION K3 L.C.R.E.T.-T.E.R.T.W.

PRT. MINERALS (NOT ORE) K4 QUARTZ, FELDSPAR

ORE CONTROL/LOCUS K5 VEINS NEAR SLATE-QUARTZITE CONTACT. UNCLEAR IF IGNEOUS PORPHYRY IS PRESENT AT VEIN

MAJ. REG. TRENDS/STRUCT. N65 BODIES OF LCRET GRANODIORITE INTRUDED INTO FOLDED AND FAULTED PRECAMBRIAN SEDIMENTS

TECTONIC SETTING N15

SIGNIFICANT LOCAL STRUCT. N70 NW TRENDING PIONEER FORMATION OGS. DIP 30-35 NE

SIGNIFICANT ALTERATION N75

PROCESS OF CONC/ENRICH. N80

FORMATION AGE N30 P.R.E.C.

FORMATION NAME N30A PIONEER FORMATION

SECOND FM AGE N35

SECOND FM NAME N35A

IGNEOUS UNIT AGE N50

IGNEOUS UNIT NAME N50A

SECOND IG. UNIT AGE N55

SECOND IG. UNIT NAME N55A

GEOLOGY COMMENTS N85 S.C. CREWEY IN USGS GULL 1218 STATES MINE IS IN PREC SEDIMENTS OF PIONEER FORMATION. HOWEVER L. BOYER IN ADMR FILE STATES MINE IS AT A QUARTZ MONZONITE-DIORITE CONTACT. IT IS POSSIBLE THAT

GENERAL COMMENTS GEN<

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine 3 C Ranch Mine & Mill

Date May 13, 1959

District Oracle District, Pinal Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from Lloyd K. Basteen.

Owner & Operator: Mary West, 3 C Ranch, Oracle, Arizona

Present Status: Boyle Bros. Drilling Co. has suspended drilling operations for the time being.

Mill closed down.

A small amount of exploration work is being done at the mine.

RECEIVED

TO: OCT 10 1957 ARIZONA LEAD-ZINC PRODUCERS

DEPT. MINERAL RESOURCES

The Emergency Lead-Zinc Committee filed a formal petition with the Tariff Commission on September 27th and it needs the support of all producers of these metals.

Mr. C. E. Schwab, Chairman of this industry committee has requested the information listed on the questionnaire below, which we ask you to fill in and return to us as soon as possible. Your very prompt answer is urged because the information must be assembled and forwarded for use within the next few weeks.

We thank you for your immediate attention.

Yours very truly,

Frank P. Knight

FRANK P. KNIGHT, Director

LEAD-ZINC QUESTIONNAIRE

October 1957.

Do you approve of the Emergency Lead-Zinc Committee's seeking relief for the lead-zinc industry and has it your authorization to speak for you? yes

What Arizona Mines and Mills in the lead-zinc class do you control?

- (1) 3c Ranch Mines Oracle, Arizona
(2) 3c Mill Oracle

Which ones are operating? (1) #4 mine (2) _____

If not operating, when shut down? (1) 9/2/57 (2) _____

Number employed, prior to shut-down, in mine, mill or sections thereof producing lead or zinc ores? (1) _____ (2) mill 6 men

Number so employed on January 1, 1957? (1) approx. 40 men (2) _____

Number so employed on October 1, 1957? (1) same (2) _____

Remarks We closed down our #12 & #17 mines and have only about 14 men in our mining operation now. The mill remains closed.

3c Ranch Mine
Company
By: Orville Watkins
Signature Office Mgr.

Please fill in NOW, tear off, and mail to:

Arizona Department of Mineral Resources
Mineral Building, Fairgrounds
Phoenix, Arizona

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Not for publication

Mine 3 C Ranch Mine & Mill

Date Jan. 14, 1959

District Oracle District, Pinal Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from Lee Boyer, Mill Supt. and visit to the mill.

References: Report of July 9, 1958 et al.

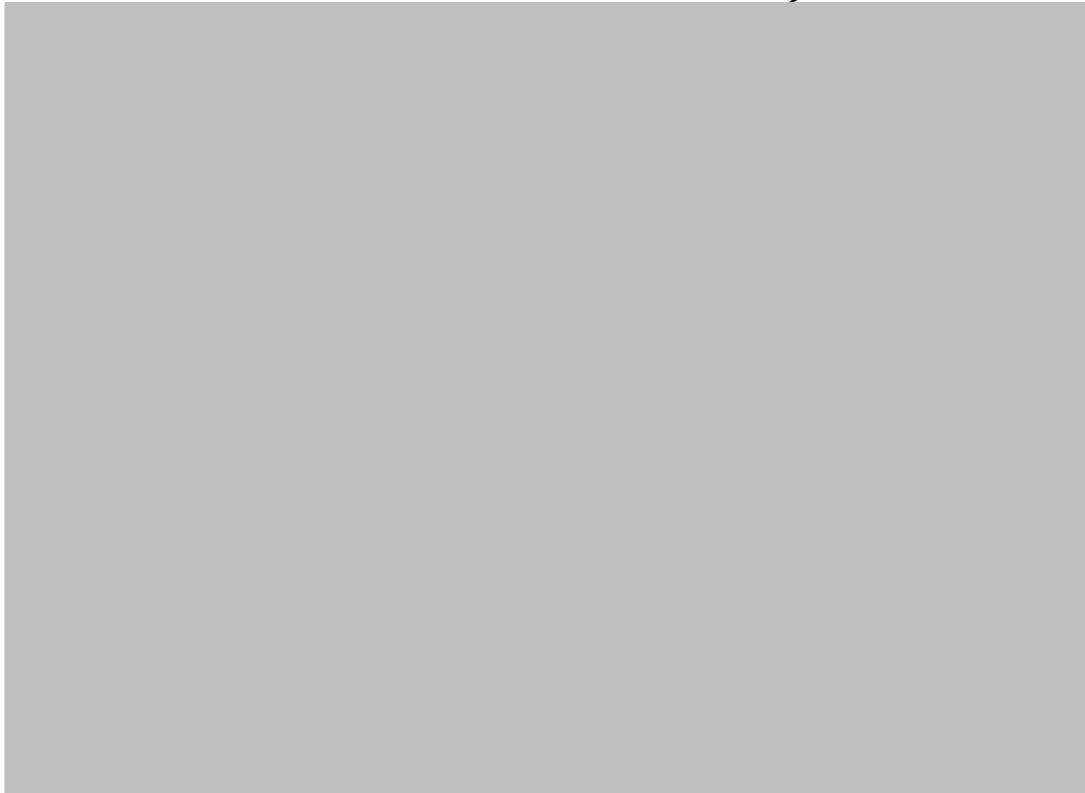
Owner & Operator: Mary West, 3 C Ranch, Oracle, Ariz.

Present Activity:

(1) Mine - Working 3 shifts, 7 days per week - 26 to 27 men working. Production 60 to 75 tons per day. Stoping is now being done from the 300 ft. level of the mine. It is planned to sink the shaft an additional 50 ft. to 100 ft.

(2) Mill - Working 1 shift, 6 days per week - 3 men at the mill.

(3) Exploration - Diamond drilling by Boyles Bros. Drilling Co. of Salt Lake City. Mr. Boyer reports that diamond drilling from the surface has been under way for the past two months and that 8 diamond drill holes, varying in depth from 500 ft. to 700 ft. have been drilled during this time, with hole #9 now being drilled. Mr. Boyle further states that results from 3 of these holes have been very gratifying, showing good values in copper and lead. At least 2 or 3 more holes will be drilled according to Mr. Boyer.



Fluriz Daily Stud
Oct 15-60

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mine & Mill

Date Mar. 30, 1959

District Oracle District, Pinal Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from Lloyd K. Basteen.

Owner & Operator Mary West, 3 C Ranch, Oracle, Arizona

Present Status

Mine and mill closed down. Have been closed down for about one week. Informant did not know the reason for closing down. There was no one at the mill office, and office was padlocked.

Boyles Bros. Drilling Co. is still diamond drilling on the property.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mine & Mill

Date Sept. 10, 1958

District Oracle District, Pinal County

Engineer Axel L. Johnson

Subject: Present Status -- Information from Lee Boyer, Mill Supt. -- Visit to mill.

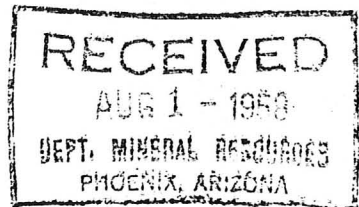
OWNER & Operator Mary West, 3 C Ranch, Oracle, Ariz.

Present Mining Activity: Resumed mining and milling operations today, Sept. 10th, after being shut down since July 25th. Mine to work 2 shifts with 5 men on each shift and 2 men at the mill -- Total 12 men.

Mr. Cousel from Globe has been employed as new mine foreman.

Proposed Plans: Mr. Boyer reports that operator expects to do some diamond drilling. A contract for this drilling from Boyles Bros Drilling Co. is being considered.

August 1, 1958



Memo to Frank P. Knight, Director

From: Axel L. Johnson

Information from Lee Boyer, Mill Superintendent, 3 C Ranch Mill

Lee Boyer reports that the 2 Barbara Green Dryers have been sold and were hauled to a mine equipment dealer in Phoenix. He did not remember the name of the dealer they were sent to. The dryers were dual. This information received July 9, 1958.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill

Date Jan. 17, 1958

District Oracle District, Pinal County.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Lee Boyer, Mill Superintendent.

Location About 8 miles south of Oracle.

Owner ✓ Mary West, 3 C Ranch, Oracle, Arizona.

Operator Same as above.

Principal Minerals ✓ Lead, Copper, Gold, Silver.

Present Milling Activity Milling the ore produced at the 3 C Ranch Mine, about 3 miles south of the mill. 40 to 50 tons of ore per day milled. Mill is run 1 shift, and 3 men are employed at the mill. Flotation is used and a bulk concentrate obtained.

Type of Mill Flotation mill, designed by the Denver Equipment Co. for milling mica, feldspar and quartz from a pegmatite vein. Later, flow sheet was changed and the mill equipment was rearranged and redesigned to be applicable to mill the lead and copper ores obtained from the present mining operations.

Mill Capacity About 350 tons per day.

Milling Equipment See report of the Equipment in my report of July 19, 1956.

Custom Ore Lee Boyer stated that Mary West would like to mill custom ore. This, he states would be done on a cooperative basis. He, however, specifies that the mill heads must be sulfide ore principally; but that a small amount of oxide ores in the mill heads would be treated by means of sulfidizing agents. The mill charge would vary from \$ 3.50 to \$ 8.00 per ton of crude ore delivered, depending on the grade of the ore. This charge would be deducted from the smelter returns, as they are received by the operator.

Proposed Plans Mr. Boyer stated that they expect to mill custom ore ~~far~~ from the Mineral Hill District, near Superior shortly; and also that they would like to mill the ore from the Control Mine, 23 miles south of Oracle, for any operator, who is interested in operating same.

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DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mine & Mill Date Sept. 10, 1958
District Oracle District, Pinal County Engineer Axel L. Johnson
Subject: Present Status -- Information from Lee Boyer, Mill Supt. -- Visit to mill.

OWNER & Operator Mary West, 3 C Ranch, Oracle, Ariz.

Present Mining Activity: Resumed mining and milling operations today, Sept. 10th, after being shut down since July 25th. Mine to work 2 shifts with 5 men on each shift and 2 men at the mill -- Total 12 men.

Mr. Cousel from Globe has been employed as new mine foreman.

Proposed Plans: Mr. Boyer reports that operator expects to do some diamond drilling. A contract for this drilling from Boyles Bros Drilling Co. is being considered.

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

✓
THREE C. RANCH MINES (800 claims) Old Hat Dist. 5-2-57
Oracle, Ariz.

Percol Co.

Owner - ~~Miss~~ Mary West, Box 68, Oracle, Ariz.
Operator- " " " "

DOWN

✓
COPPER - LEAD 48 men & 400 tons month

L.A.S.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine 3 C Ranch Mine

Date Jan. 17, 1958

District Oracle District, Pinal Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Lee Boyer, Mill Supt. Not Visited.

Location About 10 miles south of Oracle. (Mine is about 3 miles south of the mill.)

Owner Mary West, 3 C Ranch, Oracle, Arizona.

Operator Same as above.

Principal Minerals Lead, Copper, Gold, Silver.

Present Mining Activity Mining ore, milling grade and milling same at the 3 C Ranch mill. Ore produced from the 200 and the 300 ft. levels of an inclined shaft, 311 ft. deep. Working 2 shifts. 9 men employed at the mine. 40 to 50 tons per day of ore produced.

Geology & Mineralization Not known. Mine not yet visited.

Ore Values Mr. Boyer would not give out any figures on the average ore values. Kenneth C. Hebner, former mill superintendent (Jan. 30, 1957) estimated as follows: Lead 5 to 10 %; Copper 1 to 2 %; Gold 0.02 oz. The above figures may be fairly accurate at present time. At any rate, it is milling grade ore, 90 % of the ore is sulfide.

Ore in Sight and Probable Not determined, on acc. of too little exploration work.

Milling & Marketing Facilities Ore produced is milled at the mill, about 3 miles north of the mine. Ore is hauled to the mill on contract. (See report on the mill).

Past History & Production See report of Jan. 30, 1957.

Mine Workings 1 inclined shaft --- 311 ft. deep, with mining vein done on the 200 ft. and the 300 ft. levels.

Present Mining Operations Mining milling grade ore from the 200 and 300 ft. levels of the 311 ft. inclined shaft and trucking same to the 3 C Ranch mill about 3 miles away. 9 men are employed in the mine, which works 2 shifts. Production from 40 to 50 tons per day. 90 % of the ore reported as sulfides.

Remarks Field engineer could not inspect the mine during his visit. He was informed that it could not be inspected without the permission of the owner, Mary West. Mary West was in Tucson for the day, and, consequently, the inspection could not be made.

by

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill
District Oracle, PINAL COUNTY
Subject:

Date January 30, 1957
Engineer Axel L. Johnson

LOCATION: About 8 miles S. of Oracle.

OWNER: Mary West, 3 C Ranch, Oracle, Ariz.

OPERATOR: Same as above. Kenneth C. Hebner, Box 266, Oracle, Mill
Superintendent.
Lee Boyer, Assayer and Chemist.

PRINCIPAL MINERALS: Now designed for Copper, Lead, Gold and Silver.

PRINCIPAL MILLING ACTIVITY: Mill closed down for 3 weeks now on account
of a broken drive shaft. Operators expect
to resume operations again about Feb. 15th.
Parts will be shipped from Los Angeles on
Feb. 6.

MILL CAPACITY: 350 tons per day.

MILL EQUIPMENT: See N. B. of 7/19/56.

MILL RATES: Not a custom mill.

REPORT OF MILLS - SOUTHERN DISTRICT

3 C RANCH MILL - Flotation

PINAL COUNTY

(Miss) Mary West, 3 C Ranch, Oracle Ariz.

Constructed in the spring of 1956 to treat the ore from their own property. Not a custom mill. Mill closed since early spring, on account of insufficient ore.

AXEL L. JOHNSON

July 24, 1957

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine ✓ 3 C Ranch Mine Date January 30, 1957
District Oracle, PINAL COUNTY Engineer Axel L. Johnson
Subject: Information from Kenneth Hebner

LOCATION: 8 to 10 miles S. of Oracle (mine is about 3 miles S. of mill).

OWNER: ✓ Mary West, 3 C Ranch, Oracle, Ariz.

OPERATOR: Same as above. ✓ Joe Navarro, Foreman.

PRINCIPAL MINERALS: ✓ Lead, Copper, Gold.

PRINCIPAL MINING ACTIVITY: Producing ore. 18 men working (3 shifts--
6 men per shift). About 100 tons per day production
is reported by Mr. Hebner.

GEOLOGY & MINERALIZATION: Not known. Mine not yet visited.

ORE VALUES: Mr. Hebner reports, viz: Lead 5 to 10 %
Copper 1 to 2 %
Gold 0.02 oz.

ORE IN SIGHT & PROBABLE: Not known.

MILLING & MARKET, FACILITIES: ✓ Mill about 3 miles north of the mine.
Mill has capacity of 350 tons per day.

STATE OF ARIZONA
FIELD ENGINEERS REPORT

LOCATION: 8 to 10 miles S. of Oracle (mine is about 3 miles S. of mill).

OWNER: Mary West, 3 C Ranch, Oracle, Ariz.

OPERATOR: Same as above. Joe Navarro, Foreman.

PRINCIPAL MINERALS: Lead, Copper, Gold.

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Copper 1 to 2 %
Gold 0.02 oz.

ORE IN SIGHT & PROBABLE: Not known.

MILLING & MARKET, FACILITIES: Mill about 3 miles north of the mine.
Mill has capacity of 350 tons per day.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill
District Oracle, PINAL COUNTY

Date January 30, 1957
Engineer Axel L. Johnson

Subject:

LOCATION: About 8 miles S. of Oracle.

OWNER: Mary West, 3 C Ranch, Oracle, Ariz.

OPERATOR: Same as above. Kenneth C. Hebner, Box 266, Oracle, Mill
Superintendent.
✓ Lee Boyer, Assayer and Chemist.

PRINCIPAL MINERALS: Now designed for Copper, Lead, Gold and Silver.

PRINCIPAL MILLING ACTIVITY: Mill closed down for 3 weeks now on account
of a broken drive shaft. Operators expect
to resume operations again about Feb. 15th.
Parts will be shipped from Los Angeles on
Feb. 6.

MILL CAPACITY: 350 tons per day.

MILL EQUIPMENT: See N. B. of 7/19/56.

MILL RATES: Not a custom mill.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill
District Oracle, PINAL COUNTY
Subject:

Date January 30, 1957
Engineer Axel L. Johnson

LOCATION: About 8 miles S. of Oracle.

OWNER: Mary West, 3 C Ranch, Oracle, Ariz.

OPERATOR: Same as above. Kenneth C. Hebner, Box 266, Oracle, Mill
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Lee Boyer, Assayer and Chemist.

PRINCIPAL MINERALS: Now designed for Copper, Lead, Gold and Silver.

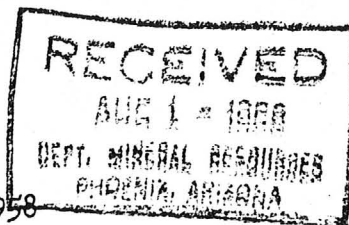
PRINCIPAL MILLING ACTIVITY: Mill closed down for 3 weeks now on account
of a broken drive shaft. Operators expect
to resume operations again about Feb. 15th.
Parts will be shipped from Los Angeles on
Feb. 6.

MILL CAPACITY: 350 tons per day.

MILL EQUIPMENT: See N. B. of 7/19/56.

MILL RATES: Not a custom mill.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine 3 C Ranch Mine & Mill

Date July 9, 1958

District Oracle District, Pinal County

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Lee Boyer, Mill Supt.

References: Report of Jan. 17, 1958 and previous reports.

Location: Mill is located about 8 miles south of Oracle, near the Oracle-Summer-haven road. Mine is located about 3.5 miles south of the mill.

Number of Claims: Mr. Boyer reports about 800 claims have been located by the owner, in the vicinity of the mine and mill.

Owner & Operator: Mary West, 3 C Ranch, Oracle, Arizona.

Principal Minerals: Lead, Copper, Gold, Silver

Present Mining Activity: Mining ore on the 160' level of the mine, and hauling to the mill for milling. Production from 40 to 50 tons per day. 10 men working -- 2 shifts, with 5 men on each shift.

Present Milling Activity: Milling the ore from the mine. Mill operated one shift with 3 men working. Bulk concentrate produced is shipped to the A.S. & R. smelter at El Paso, Texas.

Geology & Mineralization: -- as reported by Lee Boyer

The ore vein averages 3 to 4 ft. in width. The footwall is monzonite and the hanging wall is fine grained diorite. The vein widens out in various places into small kidneys and ore lenses, where most of the ore is found.

Ore Values: See report of Jan. 17, 1958.

Milling & Marketing Facilities: Ore produced is milled at the mill, about $3\frac{1}{2}$ miles north of the mine. Ore is hauled to the mill on contract.

Mine Workings: 1 inclined shaft -- (30° incline) -- 311 ft. deep inclined distance. Considerable drifting and stoping has been done at various levels on the inclined shaft.

Present Mining Operations: Now stoping ore at about 160 ft. down the inclined shaft.

Type of Mill & Mill Capacity: See Report of Jan. 17, 1958.

Milling Equipment: See Report of July 19, 1956.

Custom Ore: See Report of Jan. 17, 1958.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill

Date July 19, 1956

District Oracle, Pinal County

Engineer Axel L. Johnson

Subject:

Location About 8 miles south of Oracle on the Oracle - Mt. Lemon road.

Owner Mary West, 3 C Ranch, Oracle, Ariz.

Operator As above.

Officers Roy V. Waughtel, Superintendent - Oracle, Ariz.

✓ Lee Boyer, Assayer - Oracle, Ariz.

Principal Minerals Mill originally designed to treat a pegmatite vein for the extraction of mica, feldspar, and quartz. Later, the mill was redesigned, so that copper, lead, gold and silver can also be milled. Not a custom mill.

Number of Men Employed Twenty five men on construction.

Mill Capacity Four hundred (400) tons per day.

Marketing Facilities Products to be obtained by milling the pegmatite vein, mica, feldspar and quartz, - will be sold to industries using said products.

Flow Sheet Designed by the Denver Equipment Co. The flow sheet is similar to the one described for a 360 ton mill in Deco Trefoil Bull. M4 - B80.

Equipment

- (1) jaw crusher.
- (1) set of rolls.
- (1) 300 tons steel ore bin.
- (1) 6' x 12' Allis Chalmers rod mill.
- (1) 30' Western Mach. Hydro Classifier.
- (1) bank of flotation cells, (Denver sub. A) of 6 cells each, 44" rubber lined.
- (1) bank of flotation cells (Denver sub A) of 8 cells each, #18 special rubber lined.
- (1) 6' x 26' Dorr Classifier.
- (1) Krebs Cyclone.
- (1) Denver Rotary Filter.
- (1) Denver Leaf Filter.
- (2) Barbara Green Dryers.
- (1) Williams regrind mill & dryer.
- (2) Denver large thickeners.
- (1) Denver small thickener.
- (4) Denver heavy duty conditioner, for conditioning reagents.
- (4) concentrates storage bins.
- (1) dust collection system.
- (1) modern chemical laboratory.

Progress Mill construction was started about April 15th. Mill is about two thirds completed, and is scheduled to be ready for operation in about six weeks, or about September 1st.

Source of the Ore A large pegmatite vein, containing mica, feldspar, and quartz, is reported to be found on Mary West's property. It was reported to have been examined by Chuck Dunning, Phoenix, as regards to quality and size. Also some copper, lead, gold and silver is reported to be found on some of Mary West's mining claims in the area. She is reported as holding about 400 mining claims in the area.

Mill Operation Mill was originally designed to separate the mica, feldspar and quartz from a pegmatite vein. Flow sheet for this was designed by the Denver Equipment Co., Denver, Colo. Similar mills are in operation in N. Car. and other places. Flow sheet is similar to the one described in Deco Trefoil Bul M\$ - B80 (Denver Equipment Co.) The ore is ground to minus 35 mesh by means of a jaw crusher, a set of rolls and a rod mill. It is then run through a vibrating screen and a classifier, and then to 4 banks of flotation cells (28 cells in all), where selective flotation will be used by means of acid reagents, including hydro-fluoric acid. The mica obtained will be reground to sizes meeting the specifications of the purchasers - some 50 mesh, some 100 mesh, and some up to 300 mesh. Mica is reported to be used by paint companies to mix in paints, by lubrication and oil companies as a lubricant, and for an ingredient added to plastics. Quartz is used by gasoline refineries as a catalytic agent in refining gasoline and as a flux by metallurgical industries. Feldspars are used by the glass makers and the ceramic industry. Some changes and additions were made to the original design for the milling of lead, copper, gold and silver ores found on Mrs. Mary West's claims.

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine 3 C Ranch Mill

Date July 19, 1956

District Oracle, Pinal County

Engineer Axel L. Johnson

Subject:

Location About 8 miles south of Oracle on the Oracle - Mt. Lemon road.

Owner Mary West, 3 C Ranch, Oracle, Ariz.

Operator As above.

Officers Roy V. Waughtel, Superintendent - Oracle, Ariz.
Lee Boyer, Assayer - Oracle, Ariz.

Principal Minerals Mill originally designed to treat a pegmatite vein for the extraction of mica, feldspar, and quartz. Later, the mill was redesigned, so that copper, lead, gold and silver can also be milled. Not a custom mill.

Number of Men Employed Twenty five men on construction.

Mill Capacity Four hundred (400) tons per day.

Marketing Facilities Products to be obtained by milling the pegmatite vein, mica, feldspar and quartz, - will be sold to industries using said products.

Flow Sheet Designed by the Denver Equipment Co. The flow sheet is similar to the one described for a 360 ton mill in Deco Trefoil Bull. M₄ - B80.

Equipment

- (1) jaw crusher.
- (1) set of rolls.
- (1) 300 tons steel ore bin.
- (1) 6' x 12' Allis Chalmers rod mill.
- (1) 30' Western Mach. Hydro Classifier.
- (1) bank of flotation cells, (Denver sub. A) of 6 cells each, 44" rubber lined.
- (1) bank of flotation cells (Denver sub A) of 8 cells each, #18 special rubber lined.
- (1) 6' x 26' Dorr Classifier.
- (1) Krebs Cyclone.
- (1) Denver Leaf Filter.
- (1) Denver Rotary Filter.
- (2) Barbara Green Dryers.
- (1) Williams regrind mill & dryer.
- (2) Denver large thickeners.
- (1) Denver small thickener.
- (4) Denver heavy duty conditioner, for conditioning reagents.
- (4) concentrates storage bins.
- (1) dust collection system.
- (1) modern chemical laboratory.

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