

CONTACT INFORMATION

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: PRICELESS GROUP

ALTERNATE NAMES:

PRICE

MOHAVE MINING & MILLING

JOHN CARR CLAIMS

MOHAVE COUNTY MILS NUMBER: 367B

LOCATION: TOWNSHIP 11 N RANGE 13 W SECTION 12 QTR. NW LATITUDE:N 34DEG 18MIN 42SEC LONGITUDE:W 113DEG 34MIN 08SEC

TOPO MAP NAME: ARTILLERY PEAK - 15 MIN

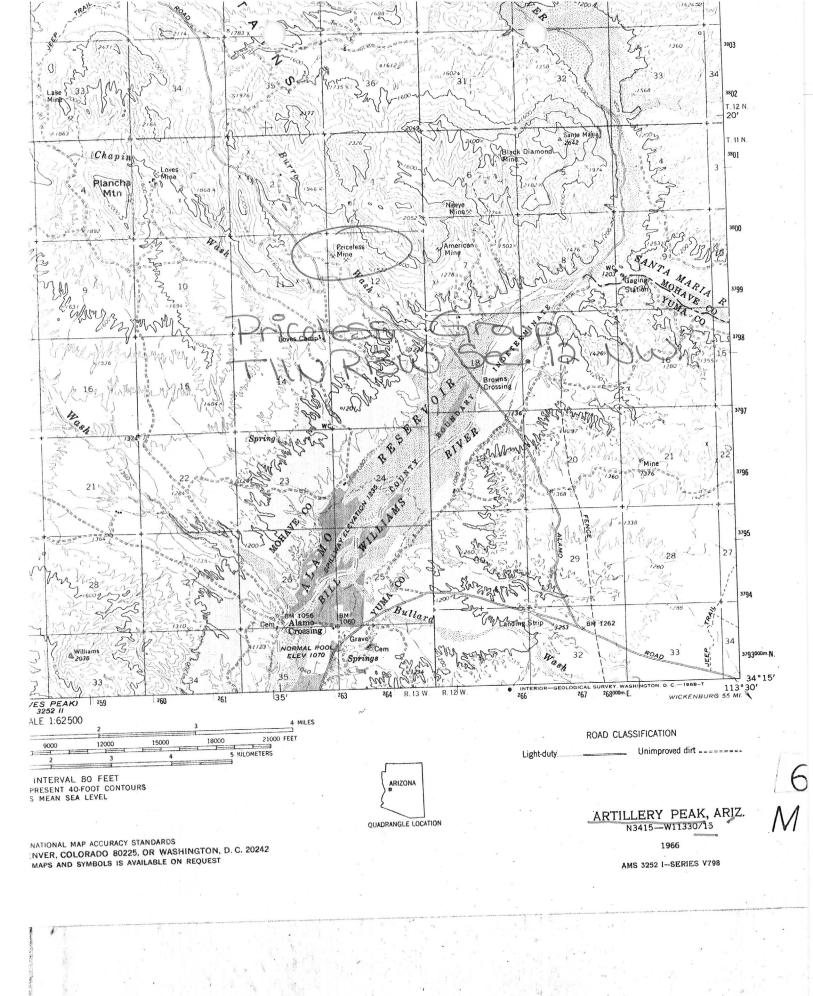
CURRENT STATUS: PAST PRODUCER

COMMODITY:

MANGANESE - PRIMARY

BIBLIOGRAPHY:

ADMMR PRICE-PRICELESS MINE FILE
FARNHAM, L.L. "MANGANESE DPSTS OF WESTERN AZ"
USBM IC 7843, P. 31-33; 1958
JONES, E.L. "MANANESE ORE OF AZ" USGS BULL
710-D, P. 149; 1920
LASKY, S.G. "MANGANESE RES. OF ARTILLERY MTNS
MOH. CO., AZ" USGS BULL 961, P. 78; 1949
MASSEY, E., AZ. STATE MINE INSP. RPT. 1955,
ANNUAL RPT. P. 8
LASKY, S. "MANGANESE DPSTS IN ARTILLERY MTNS,
MOH. CO., AZ" USGS BULL 936-R; 1944
ADDITONAL WORKINGS SEC. 10 & 11
CONFLICTING INFO. IN USGS 871, R12W
MINING WORLD - SEPT. 1958, P 65; MARCH 1958,
P 58; MAY 1960



Name of Mine or Prost t:	Townsh	Range	Section	Priority	
Priceless	11N	13W	12	С	
Principal Minerals:	1:250,000 Qua	d	7.5' - <u>15</u> '	Quad	
Psilomelane, Manganite	Prescott		Artille	ry Peak	
Associated Minerals:	District	District		Principal Product	
	Artillery Mt	Artillery Mtn.		Manganese	
Type of Operation:	County	State	Type of De	eposit	
Surface: Open Pit	Mohave	Ar.	Sedimen	tary Host	

Ownership or Controlling Interest:

Arizona Manganese Corp. $(1958)^2$

Access: From Brown's Crossing proceed north on Alamo Road for 2 miles. Mine is shown on topographic quadrangle.

Structural Control or Geological Association:

"Manganiferous tuffs."

"The deposit is in the upper manganiferous zone of the Chapin Wash formation. Numerous fractures have shattered the beds in a belt extending northwest. Supergene hard manganese oxides, mainly psilomelane and some manganite, have been deposited along these fractures."

Production History	Geochemical Analyses
Production miscory	acouncimou i vina iyoco
Patented claims (12) Book #101 MS #4400	
170,000 tons of raw ores (1953-1955) produced 51,000 long tons of concentrates at 29% Mn.	
	•

¹⁾ Hewitt et al. (1936) p. 83.

²⁾ Farnham & Stewart (1958) p. 31-32.

Name of Mine or Prost t:	Townsl	Range	Section	Priority
Price Group	11N	13W	12	С
Principal Minerals:	1:250,000	Quad	7.5' - 15	' Quad
Manganese Oxides	Prescott		Artille	ry Peak
Associated Minerals:	District	1	Principal	Product
	Artillery	y Mtn.	Mangane	se
Type of Operation:	County	State	Type of De	eposit
Surface: Open Pit	Mohave	Ar.	Sedimen	tary Host

Ownership or Controlling Interest: Consult tax assessment records

Access: From Brown's Crossing proceed north on Alamo Road for 2 miles. Mine is shown (unnamed) on topographic quadrangle.

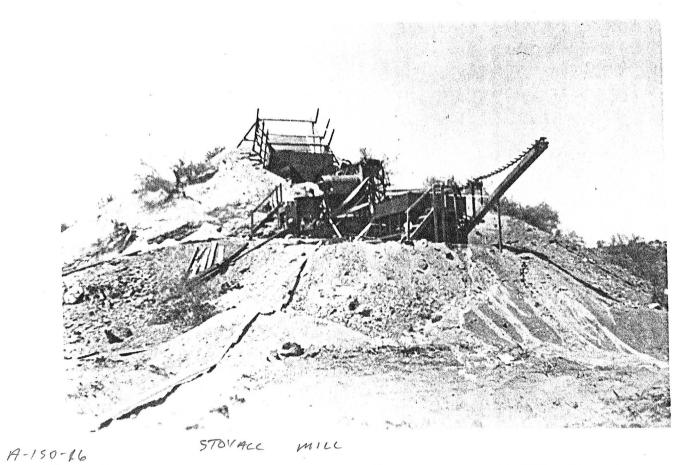
Structural Control or Geological Association:

"A zone of manganiferous tuff is exposed for a distance of about 2000 feet. The zone trends east and dips south at a low angle. The thickness of the zone ranges from 20 feet at the east end to about 40 feet at the west end, but locally it is represented by two distinct beds separated by 12 to 30 feet of barren tuffaceous sand."

Production History Geochemical Analyses		Geochemical Analyses
Patented Claims (seven)	Bk #101 MS #4400	Assay ¹ "Select" 12.0% Mn Average 75.0% Mn
2		

¹⁾ Hewitt, et al (1936) p. 83.

²⁾ Farnham & Stewart (1958) p. 33.

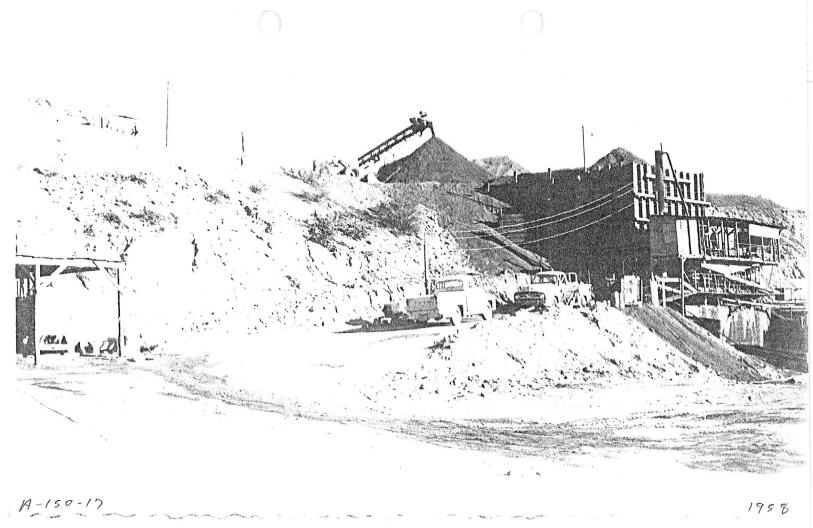


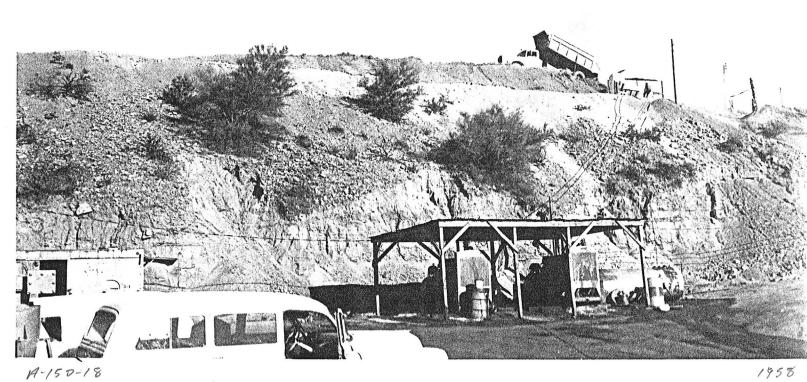
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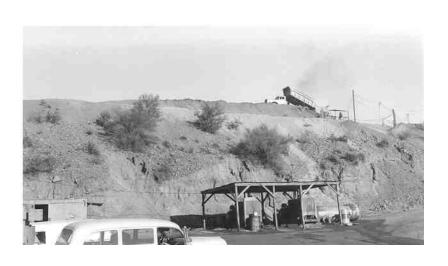
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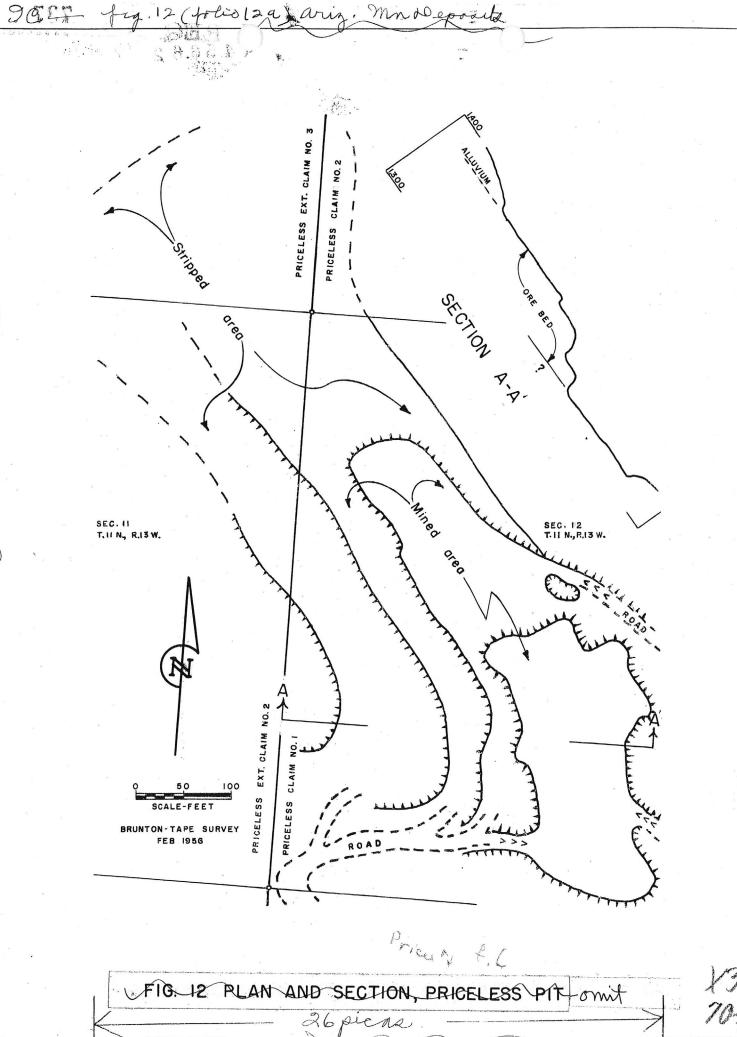












STATE OF ARIZONA

ROBINETTE & WELLS CARGO,

FIELD ENGINEERS REPORT

Formerly-

Mine

Brown & Robinette

Date

Dec. 22, 1958

District

Artillery Mtn., Mohave Co.

Engineer

Travis P. Lane

Subject:

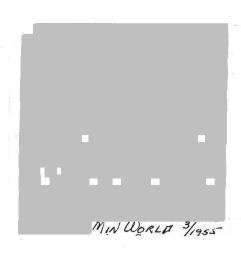
Visit

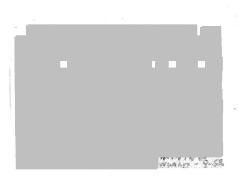
The plant was visited by Frank P. Knight and Travis Lane on Dec. 18, 1958.

The operations were normal. None of the principals was present. Floyd Brown is no longer a partner in the operation. The plant foreman advised that the current milling rate is about 15 TPH and that all the mill feed is from the Priceless pit, said to be averaging about 10% Mn.

The concentrates, running from 25 to 30% Mn, are being shipped to the M & M plant at Wickenburg.







PRICELESS

MOHAVE COUNTY ARTILLERY MTN.

Visited the mill of Robinette & Wells Cargo. The crushing plant was sold and moved out at the end of May. Present operations consist of concentrating the remaining stockpile of crushed ore. The project will terminate about the middle of June. While some ore reserves remain in the Priceless deposit, stripping would be necessary and this is not justified at this stage of the Mn program.

Travis P. Lane - Wr - 6-13-59

Visited the Robinette & Wells Cargo plant. The crushing equipment is gone and the jigs are working on the remaining stockpile of crushed ore with perhaps 3 days run on hand.

TRAVIS P. LANE - WR - 6-30-59

FIELD ENGINEERS REPORT

Mine Priceless Mine & Brown & Robinette plant

Date

Oct. 27, 1958

District Artillery Mtn. District, Mohave Co.

Engineer

Travis P. Lane

Subject: Visit

The Brown and Robinette partnership operations were visited on Oct. 24. The mill was operating normally at 600 TPD. The operators have arranged to run the Sitton mill tailings of which a large tonnage is available. A test run is under way and if successful the full mill capacity will be devoted to these tailings.

STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine Price, Priceless, etc.

Date September 29, 1958

District Artillery Mtn., Mohave County

Engineer Travis P. Lane

Subject: Mine and Mill activity (not visited)

Operator: Brown & Robinette

The writer contacted Mr. Robinette in Wenden on September 24th and obtained from him an account of the activities of the Brown & Robinette partnership operation of the manganese mine and mill at Brown's Crossing (near Alamo crossing). Also, some information was obtained at the Mohave Mining and Milling office in Wickenburg. The plant product is sent to Mohave Mining and Milling for further processing to meet marketable specifications.

The plant is putting through 25 tons per hour, and is making approximately 60 tons per day of about 30% manganese concentrate. Recovery is made by Pan American jigs -- 5 roughers and one cleaner. About 2/3 of the concentrate is jig bed product and 1/3 is Hutch product.

22 men are employed - 4 mining and hauling, and 18 in mill operation, and general maintenance. Fred Kayser is the Plant Supt.

News Items Date Dec. 10, 1954 nort east Alamo Crossing Owner Arizona Manganese Corporation Address Lessee Operating Co. Mohawa Mining & Milling Wickenburg, Pres. Genl Mgr. Miner Supt. Ralph Mill Supt. Principal Metals Manganese 20 Men Employed Production Rate 500 tons per Day, crude ore Mill, Type & Capacity Log-washer and sinkfloat 500 tons crude ore Power, Amt. & Type Diesel Electric at mill Diesel comp. Power leader, Bulldozer and Trucks Mark Gemmill Signed

(Over)

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STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Priceless & Price, and Brown & Robinette Mill

Date June 25, 1958

District Artillery Peak

Engineer Travis Lane

Subject:

MEMO

Operator: Brown and Robinette

The mill was started up on June 18, and at the time of this visit operations were on a 2 shift per day basis putting through 30 tons per hour.

The jig concentrate is running approximately 36% Mm and the hutch product 22%. The operators expect to send the former to Stovall for blending to a marketable grade, and to send the hutch product to a plant having a float section for upgrading treatment, (probably to the Dasco plant at Wenden or, possibly, to the Holmes plant at Winterhaven, California).

The ore source is the Priceless pit some two miles northerly from the mill. The mining is being done on company account with equipment rented from Wells Cargo. A long bench has been stripped on one side of the pit and this bench is expected to furnish the quota output for this year with some excess, and the prospect seems good for further substantial extension of ore in depth and length and into one wall of the pit.

The mining and hauling crew comprises 5 men. 7 men are employed at the mill.

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

PRICELESS ADIT, Wenden, Ariz. Owens Dist., MOHAVE CO.

6-19-57

M. L. Pate, Contractor, Box 1106, Wickenburg, Ariz. (H.F.Lynn, Pres.)

Robt. Pratt (Agent in Charge)

MANGANESE

DOWN

10,000 tons 26 men

L.A.S.

DEPARTMENT OF MINERAL RESO RCE. News Items Date 5/23/58 Mine Price & Priceless claims (30) Artillery Peak Area Arizona Manganese Co. Address Operating Co. Brown & Robinette Brown's Crossing, Arizona Partnership Pres. Genl. Mgr. Mine Supt. Mill Supt. Principal Metals operating will Men Employed Construction 8, employ 17 Production Rate Est. Max 700 TPD, Av. 500 Mill, Type & CapacityJig Plant - 24" x 36" Jaw, 5 Pan American Jigs Power, Amt. & Type Diesel: 3 D13000 Cat, 1 200 Cummings

Signed

(Over)

Present Operations Constructing mill (new) 3/4		
mile south of Brown's Crossing. Expect to		
be operating about June 1st.		
New Work Planned' As soon as mill is oper-		
ating will drill to block additional re-		
serves in and around present pit.		
plendijel diemal elizber		
Miscl. Notes These are old competent operators - no promotion.		
Partners claim 25,000 tons blocked 10% Mn		
(confidential) in Price and Priceless blocks		
of claims. Information supplied by Floyd		
Brown.		
The mill will not handle custom ores.		
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some state of the state of		

LYNN, H. F. Pres.
MOHAVE MINING & MILLING COMPANY (LESSEE)
P. O. Box 1106,
Wickenburg, Arizona

12-54

SEE: PRICE AND PRICELESS MINES, 4 Mi. NE of Alamo Crossing - & Mill.

OWNER: Arizona Manganese Corp.

DEPARTMENT OF MINERAL RESOURCES STATE OF ARIZONA FIELD ENGINEERS REPORT

Mine PRICE AND PRICELESS # Manganese

Date Dec. 10, 1954

District 4 miles northeast of Alamo Crossing

Engineer Mark Gemmill

Subject: Present Activity

OWNERSHIP

The properties are owned by the Arizona Manganese Corporation and leased to the Mohave Mining & Milling Company, H. F. Lynn, Pres. A. B. Campbell, Secy. Ralph G. Godfrey, Supt. Addess for all, P. O. Box 1106, Wickenburg, Arizona

MINING OPERATIONS

Both mines are being operated by open pit methods and are well equipped. Production has been going on for about 2 months. To date the Price has produced about 5000 tons and the Priceless 20000 tons. The average of the ore has been about 12%, all of which has been milled in the company's mill located near the property. The ore reserves appear to be quite large. Although the limits of the orebodies have not been found, Mr. Godfrey thinks they will greatly surpass tonnage estimate I made in Jan. 1952, of about 125,000 tons for the two properties.

MILLING OPERATIONS

The present plant which was completed about 2 months ago consists of crusher, log-washer, screen and sinkfloat. The ore is crushed to 1". It then goes to a log-washer which eliminates a lot of the clay. It is then screened over a 1" mesh screen. The oversize goes to the sinkfloat unit and the undersize is stockpiled. The sinkfloat product averages about 33%. The undersize about 20%. All of this as a combined product is being shipped to Wenden. Mr. Godfrey reports that the capacity of the plant in crude ore is 500 tons per 24 hr. day, and that they have been producing about 150 tons per day of combined product which has averaged 27% manganese, with no penalty materials.

FUTURE PLANS

Present plans include the installation of jigs and flotation and sintering in order to produce a concentrate of 40% plus for shipment direct to the users. In the meantime with the expected closing of the Wenden depot the company had expected to ship the sinkfloat product to Deming and stockpile the sands for further treatment.

FACILITIES

The mill is located near the Bill Williams river where ample water is available by pumping from a well in the river bed. Power is supplied by a Diesel-Electric Generator. Fairly good quarters have been provided for employees. About 20 men are currently employed.

STATE OF ARIZONA

Palter P ROBINETTE & WELLS CARGO,

FIELD ENGINEERS REPORT

Formerly-

Mine

Brown & Robinette

Date

Dec. 22, 1958

District

Artillery Mtn., Mohave Co.

Engineer

Travis P. Lane

Subject:

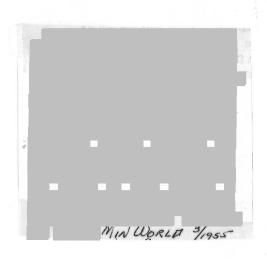
Visit

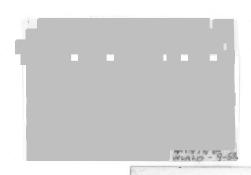
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The concentrates, running from 25 to 30% Mn, are being shipped to the M & M plant at Wickenburg.







LYNN, H. F. Pres.
MOHAVE MINING & MILLING COMPANY (LESSEE)

12-54

P. O. Box 1106, Wickenburg, Arizona

SEE: PRICE AND PRICELESS MINES, 4 Mi. NE of Alamo Crossing - & Mill.

OWNER: Arizona Manganese Corp.