



CONTACT INFORMATION

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PRINTED: 08/16/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SILVER CROWN MINE

ALTERNATE NAMES:
COTTONTAIL MINE

PIMA COUNTY MILS NUMBER: 53

LOCATION: TOWNSHIP 22 S RANGE 10 E SECTION 5 QUARTER SW
LATITUDE: N 31DEG 32MIN 14SEC LONGITUDE: W 111DEG 20MIN 51SEC
TOPO MAP NAME: ARIVACA - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GOLD LODE
SILVER
LEAD
COPPER SULFIDE
ZINC

BIBLIOGRAPHY:
S.B. KEITH, AZBM BULL. 189, P. 107, 1974
ADMMR SILVER CROWN MINES FILE
SEE MILS CONEJO



STATE OF ARIZONA
DEPARTMENT OF MINES AND MINERAL RESOURCES

Mineral Building, Fairgrounds, Phoenix, Arizona 85007 • (602) 255-3791

SILVER CROWN MINES
COTTONTAIL MINES

PIMA COUNTY
ARIVACA MINING DIST.
T22S, R10E, Sec 5

MILS SILVER CROWN MINE

ABM Bull. 189 p. 107

5 February 1941

Mr. Ed Heagney,
Arivaca,
Arizona.

My dear Mr. Heagney:

Complying with request contained in your letter of January 30, I have withdrawn from our listing of mines your SILVER CROWN property.

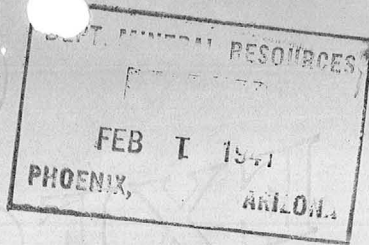
Trusting that our action now meets with your approval, and assuring you of my desire to be helpful, I am, with kindest personal regards,

Yours very truly,

J. S. Coupal
Director

JSC-jrf

cc-Carpenter



Arivaca, Arizona
Jan. 30 th, 1941

Department of Mineral Resources,
State of Arizona,
Phoenix, Arizona.

Attention of:

Mr J.S.Coupal, Director

Gentlemen:-

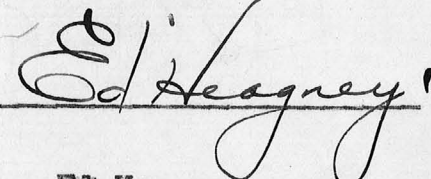
Yours of the 28 th received, with mine owner's listing of the Silver Crown property (formerly the Cotton Tail), and I thank you.

I wish to state that I am no further connected with this property, having released all holdings and negotiations, this will make a change in the status of your listing.

I note in your listing, where you include dates in 1939 and dates recently while I have been in the set-up. I would consider it a personal favor, if you will please disconnect my interests as they have existed, from those of 1939. I have a very definite reason for requesting this action, in fact I will ask you to please withdraw from your files, this listing of the Silver Crown property. Your position in this matter is perfectly O K, but I surely do not want any connection with former operators of the property or their prior listing in your files.

I thank you,

Yours Resp'y


Ed Heagney

Ed Heagney

7 December 1940

Mr. Eg Heagney,
Arivaca,
Arizona.

My dear Mr. Heagney:

Complying with request contained in your letter of December 3, I am enclosing herewith the data on the Silver Crown Mine, together with Extracts of Agreement and list of equipment, which was forwarded to us by Mr. Miles M. Carpenter.

I should suggest that you communicate with Mr. Jesse C. Wanslee, State Water Commissioner, Capitol Annex, Phoenix, Arizona, regarding the appropriation of water for mining uses.

I note that you think it likely that you will have some action on your property in the near future, and I should appreciate your advising me in the matter when you have made a deal.

Assuring you of my desire to be helpful, and with best wishes, I am

Yours very truly,

J. S. Coupal
Director

JSC-jrf
encls.

Arivaca, Arizona.
December 3rd, 1940

Department of Mineral Resources,
State of Arizona.
Capitol Building, Phoenix, Ariz.

Attention:
Mr. J.S.Coupal, Director

Gentlemen:-

Will you please mail, soon as possible, the data upon the Silver Crown Mine property, the field notes, extracts of lease and the list of equipment, which Mr. Miles Carpenter forwarded to you on October 3rd, 1940

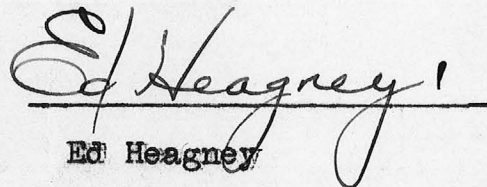
I thank you for your letter, advising me that you had made a listing of this property, in your files.

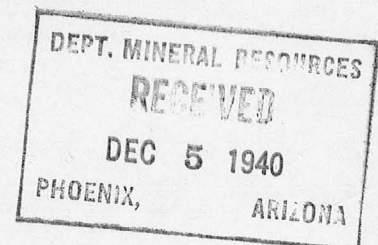
As matters now stand, it is likely that I will have some action here, in the near future. I need those papers for reference, my other copy has been lost.

In the matter of appropriating water for mining uses within the State of Arizona, will you please furnish me the name and proper address of the official to whom I shall write.

I thank you,

Yours Resp'y


Ed Heagney



October 24, 1940

Ed Heagney
Arivaca, Arizona

Dear Mr. Heagney:

Your report on the Silver Crown Mines together with extracts from an agreement to purchase have been forwarded to me by Mr. Miles M. Carpenter. We will make out a mine owners report form from this information and place it in our files, and will be glad to call it to the attention of anyone who may be interested in such a property.

Hoping we may be of service to you, I am,

Yours very truly,

J. S. Cofgal
Director

JSC:mm

Tucson, Arizona, 4 October, 1940

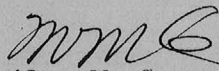
M E M O R A N D U M

TO: J. S. Coupal, Director
FROM: Field Engineer, Southern District
SUBJECT: Silver Crown Mines

Enclosed I am sending a file of correspondence with Ed Heagney of Arivaca. You will note that he handed me his report on the Silver Crown Mine, extracts from an agreement of lease and option to purchase and a list of the mining and milling equipment.

This property is the same as that originally filed as the Cotton-tail Mine.

In order to save time he handed me this data for the purpose of forwarding to R. L. Dye, which I did and Mr. Dye returned same to me and I wrote Mr. Heagney as per the enclosed copy. Since I'll be in the field all next week, I will have no opportunity to bring this to the attention of anyone so am sending it to you.


Miles M. Carpenter

MMC/cp

Enc.

Tucson, Arizona
October 3, 1940.

Box 841,
Tucson, Arizona.

Mr. Ed Heagney,
Arivaca, Arizona.

Dear Mr. Heagney:

I mailed Mr. R. L. Dye a letter regarding your proposition on September 21st, and the next week I was out in the field. He returned the data and my letter with this notation " I have two or three other things that we are looking at and at the present time will not be able to look at this one until later. In case these do not turn out O. K. I'll get in touch with you. We looked up Ruggles but it didn't look like what we want, but thanks just the same. We enjoyed meeting and talking with Ruggles and his wife."

I have been laid up with a bad cold this week and not able to do much. I'll be lucky if I can get in shape to make my field trip next week.

I am taking the liberty of forwarding your data to the Director, J. S. Coupel at Phoenix in hopes that he may be able to put you in touch with some party that may be interested.

Very truly yours,

Miles M. Carpenter,
Field Engineer.

MMC/cp

Tucson, Arizona
September 21, 1940

Box 841,
Tucson, Arizona.

Mr. R. L. Dye,
Casa Grande, Arizona.

Dear Mr. Dye:

The enclosed letter and reports were handed to me in Arivaca by Mr. Heagney for mailing to you and I hasten to do so as I understand the time is short.

I saw the mill equipment yesterday and it appears to be O. K. as far as the essential units are concerned, but it is very poorly arranged and I think Mr. Heagney's plan is to move it a mile or so down the canyon where the bulk of the ore is noticeable and the mill site is more suitable.

I have never known of your doing any milling and if my understanding is correct your "long suit" is moving large tonnage of relatively low grade ore, but maybe you would consider this milling proposition. At any rate would you please let Mr. Heagney know by return mail whether or not you will look into his offering.

Very truly yours,

Miles M. Carpenter,
Field Engineer.

MMC/cp

Enc.

P. S. If you are not interested please return the data to me.

M. M. C.

Arivaca, Arizona
Sept, 20th, 1940

Mr. Miles M. Carpenter,
P. O. Box # 841
Tucson, Arizona.

Dear Mr. Carpenter:-

Inclosed herewith is a brief description of the Silver Corwn Mine property, the list of equipment and extracts of the lease and option.

The merits of this property appear in the form of three known ore shoots, ample water flowing across the property, year around accessibility and a very liberal form of lease.

Purchase prices of both property and equipment are net to the owner, no commission being added. I wish to retain a small interest in the set-up and will take an active part in the operations.

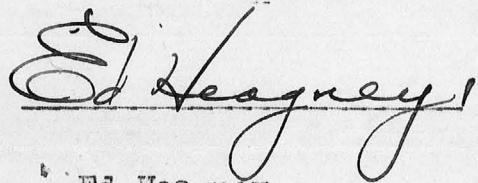
Finances of a nominal sum are required for development and operation; for which finances an assignment will be made at the proper time.

Both the finances and the interest I retain, can be mutually arranged, in the event that Mr. Dye and Batherick are interested in this matter.

I believe this property is a good little bet; and as time is limited may I have your earliest possible action,

I thank you,

Yours Resp'y



Ed Heagney

COPY

MS-72

SILVER CROWN MINES
Arivaca Mining Dist.
Pima Co., Arizona.

get silver lead

The Silver Crown Mines consist of nine quartz claims, grouped; also six additional claims outlying not grouped, total 15 quartz claims, unpatented.

Situated in the Arivaca Mining District, about three miles south-westerly of Arivaca, on the water course of Frauajita Creek. About 26 miles westerly of Amado via good road, a shipping point on the Tucson-Nogales line of the S.P. railroad. This affords services of two smelters within Arizona. Freight rates per ton of ore, from Amado to El Paso is \$2.80, from Amado to Hayden is \$1.80 per ton. Truck rate per ton of ore, from the property to Amado is \$2.00, in the bin at mine, trucker unloads at the shipping point.

Elevation above sea level at the Silver Crown tunnel is about 3800 feet.

All precipitation occurs as rain; water flows in the creek across the property, which averages a ten months flow per year. For water storage, an ideal dam site exists upon the property; with this provision, ample water supply is available for a year around operation of both mining and milling to the daily capacity of twenty-five to as much as fifty tons of ore. The winter seasons are mild. Mill tailings storage area is at hand upon the property. No growth of timber suitable for mining purposes, but ample amount for fuel. Sawed mine timbers delivered to the property at \$30.00 per thousand B. F.

Year around accessibility to property via truck and cars. Amado to Arivaca about 23 miles, good county road; Arivaca to property 3 miles, of which 2 miles is new graded road overrolling hills, then 1 mile up the creek --fair hill road. Tucson the County Seat with a population of 55,000 is a distance of 55 miles from the property via State Highway, via Amado.

This District does not have the services of an electric transmission line, the nearest being at Amado. Gasoline retails at Arivaca for 19¢ per gallon of "white" gas, and 23¢ per gallon of Ethyl. I am quoted by the local dealer that Diesel fuel can be purchased at Arivaca, in quantity lots at 7½¢ per gal. Tucson would be the major point of mining supplies.

The property's vein system is not difficult to determine, as in a large majority of occurrences this system occupies fissures within or near the fault zones, which are indicated by surface scarps or depressions. The country rock in this section, which forms the vein wall-rock is a Cretaceous sedimentary, a conglomerate, highly solidified. This solidification having reached such a high degree, that at the time of faulting, the inclosed nodules and fragments of early period material is sheared thru as one homogeneous mass. The vein material is a quartz and breaks clean, not being frozen to the walls; a slight gouge and slicken-sides face up these walls. The intrusive rocks lie to the westward, roughly parallel to the belt of conglomerates, at a distance of about one-half mile from this property. The major members of these intrusives occur as a grano-diorite and one of the andesites of the Tertiary series, and in all probability represent the genesis of ore deposition. The conglomerate belt is about one mile in width, by about four miles in length, trending southeast to northwest. To the east and roughly paralleling this conglomerate lies a belt of calcareous shales, which possibly afforded the precipitating action when the fault fissure solutions were active. High grade lead-silver values in the Fullerton property adjacent to this shale belt appear to substantiate this theory.

Block faulting of the conglomerate has produced both East to West, and Northeast to Southwest vein systems; both appear to carry values. In the majority of cases, these

veins dip at steep angles, about eighty degrees would be an average. The east-west system dips southerly, while the transverse system rests at a westerly dip. Some of the near-surface stringers show a "blanket" dip effect.

Numerous veins occur within this property; most of the work having been done where ore shoots were easily opened by hand mining methods. The Silver Crown property stands in the prospect stage, although the indications are very favorable for deeper development of ore. Owing to the well defined fissures I am of the opinion the ore shoots will continue downward thru the conglomerates for several hundred feet and probably extend into the morphose margin of the intrusive or porphyritic zone.

Vein widths range from 18 inches up to 3 feet; while the material is medium hard quartz, it is quite friable and numerous places are inclined to be of a banded or "ribbon" structure. Maximum tonnage capacity could be obtained on the milling. Three ore shoots have been mined, two of which have indications of being about 100 feet in drift length, while the third shoot length is not discernable. All of these openings are shallow. Gold values in this mined ore, as shown by production, both milling and shipping, indicate values ranging from \$18.00 up to \$46.00 per ton. I am informed that about one-third of these gold values occur as "free Gold", with the balance in the sulphide content. Some silver values are present, probably an estimate of 2 to 5 oz. per ton, would be correct. Also present is a fair amount of lead sulphide (galena), with considerable oxidized hematite. Very slight evidence of copper is noticed in the form of a carbonate (malachite), existing in isolated vugs or fracture seams. I noticed no zinc in any form.

In the adjoining property, to the northeast, ore has been followed downward to the 300 foot level below the outcrops, with values still showing a downward continuity. I am informed by a previous operator of this adjoining property, that these values in gold range from \$6.00 up to \$30.00 per ton; and in the places of vein exposure the vein widths run from 2 feet up to 5 feet. This adjoining property is now operating on the northeast to southwest vein system, and is equipped with a ten stamp mill.

Present development of the Silver Crown property consists of:- a 40 foot prospect shaft on the Cotton Tail Vein; a 300 foot tunnel driven on the Silver Crown Vein with its portal facing and directly adjacent to the road traversing the property; and an open-cut with short tunnel driven on the Lucky Boy Vein. Three separate veins, all three workings are in ore. The mill is now installed at the 40 foot shaft, near creek water level. Further development near this prospect shaft should be carried out, but not to any great extent should this shaft be utilized, as it is misplaced for efficient operation and mismanaged when sunk on the complex angle of incline. As to sampling, this shaft would suffice, but a new shaft is the proper program. The 300 foot tunnel should be extended westerly on the Silver Crown vein, in order to intersect the junction points of the four strong veins cutting into this property, from the adjoining property on the northeast. A backs of about 200 feet would be gained in this operation and I would estimate that about 100 feet extension should pick up the first junction. A thirty day period of preliminary work would be required and within sixty days after the initial date of operations the Silver Crown property should be in the state of a profitable producer.

Respectfully submitted,

Ed Heagney

EXTRACTS OF AGREEMENT,
LEASE and OPTION to PURCHASE
SILVER CROWN MINES.

Five year operating leass and option to purchase; signed July 1940, expires July 1945. Exercise option any time within this period.

Commence operations within ninety (90) days

Employe one man as a minimum, or as stated in lease, 25 man-shifts per month

Operate any place upon the property, no restrictions

No development footage specified

Pay the property owner his royalty within twenty days after receipt of returns

Lease Royalty rate is ten per cent (10%) of the NET production, which net is arrived at by deducting from the gross production all the hauling, shipping, milling or smelter costs.

Royalty as paid, is credited upon the purchase price of property .

Purchase price of the property as optioned is Thirty-Five Thousand dollars (\$35,000.00) which includes all fifteen quartz claims.

No installments or deferred payments on the purchase price sum.

Lease holder has thirty days in which to remedy any breath of lease terms, after the owner serves written notice of any such failure.

The customary requirements that mining shall be done in minerlike manner, to keep the property clear of bills, to carry compensation insurance on employees. A very liberal lease thru out.

Mining and milling equipment is a separate purchase, priced at Sixty One hundred dollars (\$61,00.) This equipment was installed upon the Silver Crown Mine property by a party other than the property owner and due to business reverses he was unable to continue. The original property owner is now a paralytic and his son too inexperienced to operate. Terms of purchase of this equipment are as follows:

One Thousand dollars (\$1000) as a down payment; the \$5,100 balance to be paid within two (2) years, which balance is divided into four equal payments, payable each six (6) months thru out the two years.

Each quarterly payment amounts to \$1275.00; And as the NET returns are received from the mine property production, a ten per cant (10%) of this NET return is to be paid upon the purchase of this equipment, said ten per cent of the net to be credited upon each quarterly payment as said payment becomes due and payable. The TOTAL purchase price of both the equipment and the property is the sum of Forty One Thousand One Hundred dollars (\$41,100.00), which sum does not bear interest money while purchase is pending.

At the outset of operations, a crew of six (6) men should be employed consisting of:-
2 miners, 1 hoistman, 1 blacksmith who also frames mine timbers, 1 handyman who fills in as surface trammer during hoisting, and 1 camp cook.

Mining and Milling Equipment
Installed upon
SILVER CROWN MINES.

- 1 Ball Mill, 25 ton capacity, classifier head. new liners
- 1 Rock Crusher, Jaw type
- 2 Small Ore Bins
- 1 Amalgamation Plate 3 ft. x 5 ft.
- 1 Mercury Trap
- 1 Concentrator, Plat-0 table type
- 1, 2 inch Diaphragm Pump, 2 in. connections, 14 inch diaphragm
- 1, 28 H. P. Diesel Engine, (mill power)
- 1, 7 1/2 K. W. Electric Generator (lights)
- 1 electric Switchboard, meters, etc.
- 1 Model "A" 4 cylinder Motor, fitted for power purposes
- 1, 12 H.P. twin cylinder Hoist, cable and ore bucket (air driven)
- 1, 15 H.P. Diesel Engine (drives air compressor)
- 1, 7 x 7 twin cylinder, vertical type, Air Compressor, 120 cu, ft.
- 1 Air Receiver Tank 3 ft. x 6 ft., with pressure gage and safety relief
- 2 Jack hammers.
- 1 stoper
- 1, 3 H.P. Electric Motor (drives mill-water pump)
- 1 water pump, duplex type piston, belt driven (creek to mill tanks)
- 2, 500 gal. Water tanks, metal
- 1, 1 1/2 H.P. Witt gasoline motor
- 1, 2 H.P. Stover gasoline motor
- 2 centrifugal Pumps, 1 inch size, (engine cooling system)
- 2 water cooling towers, (engine cooling system)
- 1 mill building, iron roof
- 1 shower-bath booth
- 1 office building, small, two rooms
- shafting, bearings, belting and pullies
- Blacksmith equipment, air hose, air pipe, water pipe, drill steel, numerous accessories, etc., etc.

RIO E. T. 25

AJAX

ARIVACA 3 MILES ↑

TED BURRIS
OF
OLD FULLERTON

MILL HOUSE
& MINE
U.P. →

FAIR PLAY
HACK TOWNSEND

PAT

EDWARD'S
MINE

65 AREA

78 UP

54

89

CREESE
MINE & MILL
UP

GOLDSMITH
MINE &
MILL
UP

To Arivaca

ROAD

78
18 17

89
17 16

Las Jarillas Ranch

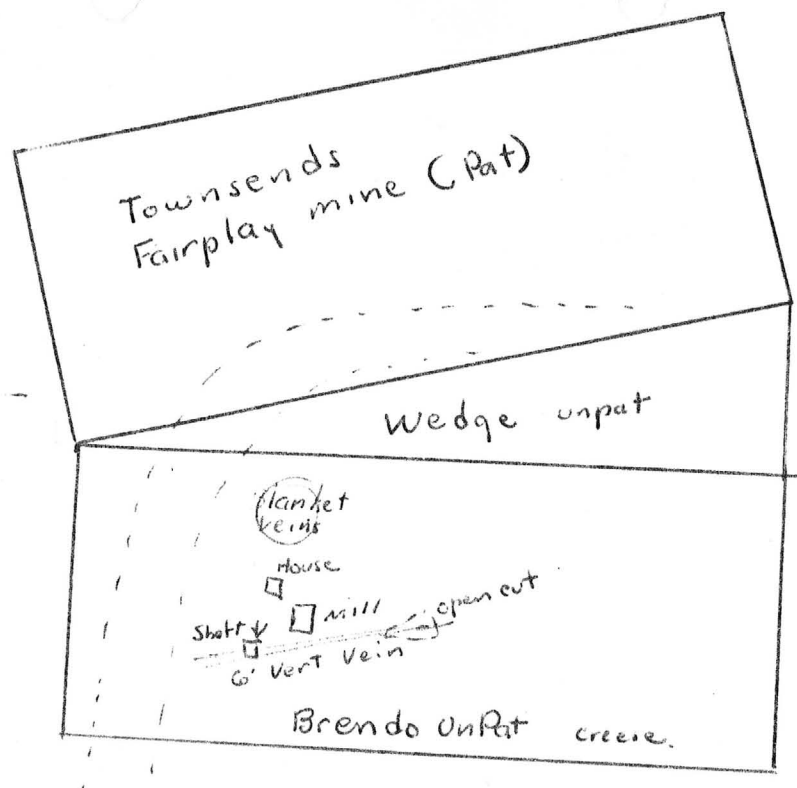
SKETCH SHOWING
RELATIONSHIP OF
FOUR PROPERTIES
G.T. JAN 28, 1966

ARIVACA
QUADRANGLE

N
↑

SECS
SEC 8

Edwards Property



Ted Burns
"Long Shot"
mine

Goldsmith Mine

1
Silver See
name changed
1

1
For sale
open for business
1

MS-72

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date 6/23/39 and 9/4/40

1. Mine Silver Crown *Mines*
2. Mining District & County Arivaca Mining Dist.
Pima County
3. Former name Cotton Tail
4. Location 3 miles SW of Arivaca
5. Owner Ed. Heagney ✓
6. Address (Owner) Arivaca, Arizona
7. Operator
8. Address (Operator)
9. President
10. Gen. Mgr.
11. Mine Supt. ✓
12. Mill Supt. ✓
13. Principal Metals Gold, Silver, Lead ✓
14. Men Employed 7 (6/23/39)
15. Production Rate
16. Mill: Type & Cap.
17. Power: Amt. & Type 1 - 25 HP Primm oil engine
1 - 15 HP Storer oil engine
18. Operations: Present 6/23/39 Driving 3 adits into hill 75 ft. apart vertically

19. Operations Planned

20. Number Claims, Title, etc. 15 unpatented - 9 grouped - 6 not.

21. Description: Topography & Geography About 3800 ft. above sea level.
Side of Fraught Canyon

22. Mine Workings: Amt. & Condition 40 ft. prospect shaft
300 ft. tunnel
6/23/39 raising and sinking.

23. Geology & Mineralization Numerous veins within this property. Fault fissure veins. or veins near faults. Banded quartz. 3 ore shoots have been mined. 2 shoots 100 ft. in length. Schist with andesite conglomerate capping cut by 4 parallel veins (vertical) oxidized ore.

24. Ore: Positive & Probable, Ore Dumps, Tailings

24-A Vein Width, Length, Value, etc. Veins 18 inches to 3 ft. values gold \$18 to \$46 per ton. 2 - 5 oz of silver with galena and hematite.

25. Mine, Mill Equipment & Flow Sheet
1 Ball mill, 25 ton; 1 rock crusher, Jaw type; 2 small ore bins; 1 amalgamation plate, 3 x 5ft.; 1 mercury trap; 1 concentrator; 1 --2in. Diaphragm pump; 28 HP Diesel; 7 1/2 KW electric generator (lights); 1 electric switchboard, etc.; 1 model "A" 4 cylinder motor; 1--12 HP twin cylinder hoist; 15 HP Diesel; Air compressor, 120 cu. ft.; 1 Air receiver tank, etc.; 2 jackhammers; 1 stoper; 3 HP electric motor; 1 water pump etc.; 2 - 500 gal. water tanks; 1 1/2 HP Witt gasoline motor; 2 HP Stover gasoline motor; 1 mill building; 2 water cooling towers; 2 centrifugal pumps; 1 shower bath; 1 office building well equipped, etc.

26. Road Conditions, Route
3 miles SW of Arivaca on the water course of Fraujoyty Creek about 26 miles W of Amado via good roads, a shipping point on Tucson-Nogales branch of SP railroad. Freight rate to El Paso \$2.80 and Hayden \$1.80. Truck rate to Amado in cars \$2.00

27. Water Supply Ideal dam site on property. Creek flow averages 10 months flow per year.

28. Brief History An old location worked by Spaniards.

29. Special Problems, Reports Filed Lease and Option on file.

30. Remarks

31. If property for sale: Price, terms and address to negotiate. For sale, apply for terms.

32. Signed..... From Report by Ed Heagney

33. Use additional sheets if necessary.

Post Office Department

PENALTY FOR PRIVATE USE TO AVOID PAYMENT OF POSTAGE, \$300

OFFICIAL BUSINESS

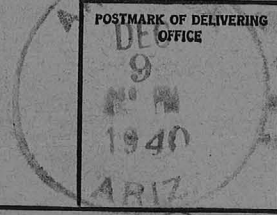
REGISTERED ARTICLE

11117

No. _____

INSURED PARCEL

No. _____



Return to *Department of Mineral Resources*

Street and Number, or Post Office Box, } *State of Ariz. Geol Bldg.*

PHOENIX.

ARIZONA.

RETURN RECEIPT

Received from the Postmaster the Registered or Insured Article, the original number of which appears on the face of this Card.

Ed Wagner

(Signature or name of addressee)

by J. T. Edwards

(Signature of addressee's agent)

Date of delivery DEC 9 1940, 19
Form 3811

DEPARTMENT OF MIN RESOURCES

News Items

Date June 22, 1939

Mine COTTONTAIL

Location 4 mi. S. from Arivaca

Owner Boyd Toney

Address Superior, Ariz.

Operating Co. Byfield Mining & Milling Co.

Address Arivaca, Arizona

Pres. Not a corporation

Genl. Mgr. Damon Byfield

Mine Supt. Same

Mill Supt. L. J. Byfield

Principal Metals Gold, silver, lead

Men Employed 7

Production Rate Not established

Mill, Type & Capacity Amalgamation and table
concentration, 25 tons/24 hrs.

Power, Amt. & Type 25 HP Primm Oil - Mill

15 HP Stover Oil - Compressor

Signed M. M. C.

(Over)

Present Operations

Driving three adit levels into hill
75 ft apart vertically

New Work Planned Installing 7x7 Curtis
Compressor driven by 15 HP Stover oil
engine and will sink shaft from 30 ft.
level. First station at 75 ft.

Misc. Notes Water is from a well sunk in
margin of creek. Plant will be put
in operation when summer rains begin.

Owners estimate 2,000 tons ore in
sight on which mill tests show \$18.50
per ton.

Also say just struck ore shoots
showing width of 3 1/2 ft assaying
above \$100 per ton. Extent and
importance not known.

Signed M. M. C.

(Over)