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07/19/88

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: DESERT QUEEN

ALTERNATE NAMES:

SILVER MOON, MS 3176, PAT.
WESTERN GOLD MS 2852, PAT.
OLD GOLD MS 2852, PAT.
GOLDEN PEA MS 3176, PAT.
SOUTHERN GOLD MS 2852, PAT.
GOLDEN CHARIOT MS 2852, PAT.

PINAL COUNTY MILS NUMBER: 669

LOCATION: TOWNSHIP 9 S RANGE 5 E SECTION 31 QUARTER S2
LATITUDE: N 32DEG 36MIN 01SEC LONGITUDE: W 111DEG 53MIN 19SEC
TOPO MAP NAME: SILVER REEF MTS - 15 MIN

CURRENT STATUS: OTHER

COMMODITY:

SILVER
GOLD

BIBLIOGRAPHY:

BLM MINING DISTRICT SHEETS 556, 562
TENNEY, JAMES HISTORY OF MINING IN AZ,
1927-29, P. 337-338
TENNEY, J.B., ECONOMIC GEOLOGICAL RECONN. OF
CASA GRANDE MINING DISTRICT AZ. 1934, P22-23
HAMMER, DONALD F., GEOLOGY AND ORE DEPTS. OF
THE JACKRABBIT AREA PINAL CO. MS UOFA 1961
ADMMR FILES
ADMMR DESERT QUEEN MINE FILE
USAEC PRELIM. RECONN. REPORT 172-488, 1953,
P. 8
ADMMR U FILE

From: USGS DDS 20 MRDS data

RECNO M241181
 REC_TYPE S
 USER_FIELD *U93/10
 REP_DATE 82 03
 FIL_LINK USBM 004 021 0301 CIMRI
 REP ROTH, FRANCES A. (GEST, DON)
 REP_AFF ABGMT
 SYN CLAIMS INCLUDE SILVER MOON, GOLDEN PEA, WESTERN GOLD, GOLDEN
 CHARIOT, OLD GOLD, SOUTHERN GOLD (PATENT 2852)
 DIST SLATE DISTRICT
 COUNTY PINAL
 STATE_CODE AZ
 CTRY_CODE US
 PHYS 12 BASIN AND RANGE
 DRAIN 15050305
 LAND_ST 47
 ELEV 1150 FT
 UTM_N 3607691.
 UTM_E 416149.5
 UTM_Z +12
 TOWNSHIP 009S
 RANGE 005E
 SECTION 31
 SECT_FRACT S2
 MERIDIAN GILA AND SALT RIVER
 POSITION ABOUT 3.8 MILES DIRECTLY NORTH OF PRIETA PEAK.
 LOCATION INFO FROM LAND.ST : (1983)
 SITE DESERT QUEEN MINE
 LAT 32.6053
 LONG -111.8936
 CTRY_NAME UNITED STATES
 COMMOD AG AU PB ZN
 ORE_MAT AURIFEROUS-ARGENTIFEROUS GALENA, CERARGYRITE, SILVER,
 CERUSSITE, SPHALERITE
 MAJOR AG
 MINOR AU
 CLH_USE 93/12/17
 TRACE PB ZN
 PROD S
 LOC_STRUCT EASTERN FAULT SYSTEM 2,200 FT LONG, WESTERN SYSTEM AT LEAST
 1800 FT LONG
 STATUS 6
 YR_DISC 1890'S (?)
 YRFST_PROD 1906
 YRLST_PROD 1938
 OWNER PETER JOHNSON (1961)
 OPER APEX ENERGY CORP. (1986, VANCOUVER, BRITISH COLUMBIA)
 EXPL_COM ORIGINAL WORK DONE BY DESERT QUEEN GOLD MINING CO. (1905 TO
 1907). R.L. DYE WAS OPERATOR IN 1938. 1984-86: APEX DID
 GEOLOGIC EVALUATION AND SAMPLING; REEVALUATED PREVIOUS DRILL
 DATA.
 DEP_TYPE REPLACEMENT/VEIN
 DEP_FORM LENSES
 MAX_LEN 3000
 M_L_U FT
 MAX_WID 6
 M_W_U FT
 DEP_SIZE S
 STRIKE N 60 E
 DIP 50 TO 60 S

DDESC_COM VEINS FOLLOW TWO DISTINCT NORTHEAST TRENDING FAULT SYSTEMS
WITH REPLACEMENT DEPOSITS IN ADJACENT BRECCIA.ÿ
QUAD250 TUCSON
DEPTH_WK 80
D_W_U FT
LEN_WK 3000
L_W_U FT
DWORK_COM 7 SHALLOW SHAFTS, NUMEROUS CUTS AND PITS, SOME STOPING,
HAULAGE ADIT OF 150 FT, UNDERGROUND WORKINGS NOW
INACCESSIBLE.
MIN_AGE TERT MTERT
NORE_MINS QUARTZ, IRON OXIDES, PYRITE, LIMONITE
ORE_CNTL 2 NE TRENDING FAULT SYSTEMS, PERMEABILITY
REG_STRUCT BEDDING OF LIMESTONE IS NE TRENDING, DIP
ALTER SILICIFICATION, PYRITIZATION
HRU_AGE MISS
HRU_NAME ESCABROSA LIMESTONE
NAME ROTH, FRANCES A. (GEST, DON)|ORRIS, GRETA J.
DATE 03/01/82|02/01/93
ED_COM |
CONT_CODE NA
GEOL_COM ORE DEPOSITS NOT DIRECTLY RELATED TO PORPHYRY SILL HERE,
MINERALIZATION IS APPARENTLY POST SILL EMPLACEMENT.
REPLACEMENT BODIES FORMED WHERE FAULTS ENCOUNTERED HIGHLY
FRACTURED LIMESTONE.
GEN_COM INFO.SRC : 2 UNPUB REPT
REF ABGMT-USBM FILE DATA.|ABGMT CLIPPINGS FILES.|ADMR FILE
DATA.|HAMMER, DONALD F., 1961, GEOLOGY AND ORE DEPOSITS OF
THE JACKRABBIT AREA, PINAL COUNTY, ARIZONA: M.S. THESIS,
UNIV. OF AZ., P. 106-115.|TENNEY, 1934, CASA GRANDE CHAMBER
OF COMMERCE.|NIEMUTH, N.J., 1987, ARIZONA MINERAL
DEVELOPMENT 1984-1986: ARIZONA DEPARTMENT OF MINES AND
MINERAL RESOURCES DIRECTORY 29, 46 P.
CONT_NAME NORTH AMERICA
STATE_NAME ARIZONA
WORK_TYPE B
AP_ITEM ORE
AP_ACC EST
AP_AMT 0.21000
AP_U TONS
AP_YEAR 1938
AP_GRADE .03 OZ/T AU, 2 OZ/T AG, VALUE \$2200
CP_ITEM ORE
CP_ACC EST
CP_AMT 10.000
CP_U DOLLARS
CP_YEAR 1905-1907
AP_SOURCE HAMMER, 1961
RPR_ITEM ORE
RPR_ACC EST
RPR_AMT 100.
RPR_U ST
RPR_YEAR 1986?
RPR_GRADE 0.2 OZ AU/ST, 2.0 OZ AG/ST
RPR_SOURCE NIEMUTH, 1987.
PR_SOURCE A MODERATE TONNAGE COULD BE DEVELOPED CONTAINING 0.2-0.3
OZ/T AU & 2 OZ/T AG.
PR_COM HAMMER, 1961
UPD_DATE 93 02
UPDATER ORRIS, GRETA J.
COMMOD_TYP M
QUAD6250 SILVER REEF MTNS. (1942)

DATE_ISSUE	95/5/18
UPD_AFF	USGS
PROF_ID	100
PROF_LOC	100
PF_COMMOD	100
PROF_EXPL	100
PFDESC_DEP	50
PFDESC_WRK	100
PROF_GEOL	71
PROF_REF	100
PPROD_RESV	53
PROF_ALL	86
HR_AGE_MV	MISS
HR_TYPE_MV	LIMESTONE
AR_AGE_MV	TERT
AR_TYPE_MV	ANDESITE PORPHYRY SILL
TYPE	R U
AFFIL	ABGMT USGS
DEP_CODE	10100
HUC	15050306

REFERENCE 1 F1 < ABG MT - USB... FILE DATA

REFERENCE 2 F2 < ABG MT CLIPPINGS FILES

REFERENCE 3 F3 < ADMR FILE DATA

REFERENCE 4 F4 < HAMMER, DONALD F., GEOLOGY AND ORE DEPOSITS OF THE JACKRABBIT AREA, PINAL COUNTY, ARIZONA, 1961, M.S. THESIS, UNIV. OF AZ. P 106-115

RECORD IDENTIFICATION

RECORD NUMBER B10 *RECORD TYPE B20 X, 1, M DEPOSIT NUMBER B40
REPORT DATE G1 8.24.03 INFORMATION SOURCE B30 1, 2 *FILE LINK IDENT. B50 USGM-004 021 0301
YR. MO.
REPORTER(SUPERVISOR) G2 ROTH, FRANCES A. GEST, DON
(last, first, middle initial) (last, first, middle initial)
REPORTER AFFILIATION G5 ABGMT *SITE NAME A10 DESERT QUEEN MINE
SYNONYMS A11

MINING DISTRICT/AREA A30 < SLATE DISTRICT
COUNTY A60 < PINAL > STATE A50 < A.Z. > *COUNTRY A40 < U.S. >
PHYSIOGRAPHIC PROV A63 < 1.2.F. >
DRAINAGE AREA A62 < 1.5.0.5.0.3.0.5.F. >
QUADRANGLE NAME A90 < SILVER REEF MOUNTAINS (1.9.4.2.) > LAND STATUS A64 < 0.1.F. (1.9.7.9.) >
SECOND QUAD NAME A92 < () > *QUADRANGLE SCALE A100 < 6.2.50.0. >
ELEVATION A107 < 1.1.50.F. > SECOND QUAD SCALE A91 < () >

UTM

NORTHING A120 < 3, 6, 0, 7, 7, 0, 0 >

EASTING A130 < 4, 1, 6, 1, 5, 0, 1 >

ZONE NUMBER A110 < +, 1, 2 >

*ACCURACY

ACCURATE  (circle)

ESTIMATED EST _____

GEODETIC

LATITUDE A70 < _____ N

LONGITUDE A80 < _____ W

[illegible]

POSITION FROM NEAREST PROMINENT LOCALITY A82 ABOUT 3.8 MILES DIRECTLY NORTH OF PRIETA PEAK

ESSENTIAL INFORMATION
ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED

		COMMODITY INFORMATION	
COMMODITIES PRESENT	C10	<	<u>AG, AU, PB, ZN</u>
ORE MINERALS	C30	<	<u>GALENA WITH GOLD AND SILVER, CERARGYRITE, NATIVE SILVER, CERRUSSITE, SPHALERITE</u>
COMMODITY SUBTYPES	C41	<	
GEN. ANALYTICAL DATA	C43	<	
COM. INFO. COMMENTS	C50	<	

SIGNIFICANCE		PRODUCER		NON-PRODUCER	
MAJOR PRODUCTS	MAJOR	A.G.		MAIN COMMODITIES PRESENT C11	
MINOR PRODUCTS	MINOR	A.U.		MINOR COMMODITIES PRESENT C12	
POTENTIAL PRODUCTS	POTEN	P.B.			
OCCURRENCES	OCCUR	Z.A.		OCCURRENCES	OCCUR

PRODUCER				NON-PRODUCER	
PRODUCTION	YES (circle)	PRODUCTION SIZE	SM MED LGE (circle one)	PRODUCTION	UND NO (circle one)

EXPLORATION OR DEVELOPMENT	
PRODUCER	NON-PRODUCER
STATUS AND ACTIVITY A20(4)	STATUS AND ACTIVITY A20(1)

DISCOVERER L20 < >
 *YEAR OF DISCOVERY L10 < 1890's (?) > *NATURE OF DISCOVERY L30 < > *YEAR OF FIRST PRODUCTION L40 < 1906 > *YEAR OF LAST PRODUCTION L45 < 1938 >
 PRESENT/LAST OWNER A12 < PETER JOHNSON (1961) >
 PRESENT/LAST OPERATOR A13 < R. L. DYE (1938) >
 EXPL./DEV. COMMENTS L110 < CLAIMS INCLUDE SILVER MOON, GOLDEN PEA, WESTERN GOLD, GOLDEN CHARIOT, OLD GOLD, SOUTHERN GOLD (PAT 2852); ORIGINAL WORK DONE BY DESERT QUEEN GOLD MINING CO. (1905-1907) >

* DEPOSIT TYPE(S)	C40 <u>REPLACEMENT / LENSES</u> VEINS				
* DEPOSIT FORM/SHAPE	M10 <u>LENSES</u>				
* DEPTH TO TOP	M20 <u> </u>	* UNITS M21 <u> </u>	* MAXIMUM LENGTH	M40 <u>3000</u>	* UNITS M41 <u>FT.</u>
* DEPTH TO BOTTOM	M30 <u> </u>	* UNITS M31 <u> </u>	* MAXIMUM WIDTH	M50 <u> </u>	* UNITS M51 <u> </u>
* DEPOSIT SIZE	M15 <u>SMALL</u>	M15 <u>MEDIUM</u>	* MAXIMUM THICKNESS	M60 <u> </u>	* UNITS M61 <u> </u>
* STRIKE	M70 <u>N 60 E</u>	* DIP M80 <u>50 TO 60 S</u>			
* DIRECTION OF PLUNGE	M100 <u> </u>	* PLUNGE M90 <u> </u>			
* DEP. DESC. COMMENTS	M110 <u>VEINS FOLLOW TWO DISTINCT NORTHEAST TRENDING FAULT SYSTEMS WITH REPLACEMENT</u>				
<u>DEPOSITS IN ADJACENT BRECCIA</u>					

* WORKINGS ARE: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) * OVERALL LENGTH M190 * UNITS M191
 * DEPTH BELOW SURFACE M160 80 * UNITS M161 FT * OVERALL WIDTH M200 * UNITS M201
 * LENGTH OF WORKINGS M170 3000 * UNITS M171 FT * OVERALL AREA M210 * UNITS M211
 * DESC. OF WORK. COM. M220 7 SHALLOW SHAFTS, NUMEROUS CUTS AND PITS, SOME STOPING, HAULAGE ADIT OF 150 FT.

AGE OF HOST ROCK(S) K1< M.I.S.S. V.

HOST ROCK TYPE(S) K1A< ESCABROSA LIMESTONE

AGE OF IGNEOUS ROCK(S) K2< T.E.R.T. V.

IGNEOUS ROCK TYPE(S) K2A< ANDESITE PORPHYRY SILL

AGE OF MINERALIZATION K3< T.E.R.T. V. MIDDLE TERTIARY

PERT. MINERALS (NOT ORE) K4< QUARTZ, IRON OXIDES, PYRITE, LIMONITE

ORE CONTROL/LOCUS K5< NE TRENDING FAULT SYSTEMS - TWO

MAJ. REG. TRENDS/STRUCT. N5< BEDDING OF LIMESTONE IS NE TRENDING, DIP

TECTONIC SETTING N15< FAULT

SIGNIFICANT LOCAL STRUCT. N70< EASTERN SYSTEM 2200 FT LONG, WESTERN SYSTEM AT LEAST 1800 FT. LONG

SIGNIFICANT ALTERATION N75< _____

PROCESS OF CONC./ENRICH. N80< _____

FORMATION AGE N30< M.I.S.S. V.

FORMATION NAME N30A< ESCABROSA LIMESTONE

SECOND FM AGE N35< _____ V.

SECOND FM NAME N35A< _____

IGNEOUS UNIT AGE N50< _____ V.

IGNEOUS UNIT NAME N50A< _____

SECOND IG. UNIT AGE N55< _____ V.

SECOND IG. UNIT NAME N55A< _____

GEOLOGY COMMENTS N85< ORE DEPOSITS NOT DIRECTLY RELATED TO PORPHYRY SILL HERE. MINERALIZATION IS APPARENTLY POST SILL EMPLACEMENT. REPLACEMENT COPIES FORMED WHERE FAULTS ENCOUNTERED HIGHLY FRACTURED LIMESTONE

GENERAL COMMENTS GEN < _____



Desert Queen
2/12/88



Ferber Camp at
Desert Queen 2/12/88



Ferber Cooler
Desert Queen 2/12/88



Ferber 200 TPD Roaster at
Desert Queen. 2/12/88











DESERT QUEEN

PINAL COUNTY

RRB WR 9/25/87: It was reported that the Apex Energy Company no longer has an interest in the Desert Queen (file) Pinal County and that it is no longer owned by either Bill Copeland or Harold Bates.

NJN WR 11/13/87: Rick Whitebear, 69 N. Sacramento, Chandler, Arizona 85224, 899-8888 reported that he owns the western half of the Western Gold patented mining claim which is part of the Desert Queen (file) Pinal County. He is interested in leasing or selling the property. He reported that Ferber Mining Corp (card) has bought up the Silver Moon and the Golden Pea, also part of the Desert Queen, in August for \$50,000. They now have established a double-wide mobil home, erected a building, bulldozed a flat millsite and erected a roasting plant on the site.

RRB WR 2/12/88: Visited the Desert Queen (file) Pinal County where Ferber is setting up their 200 TPD roaster. Talked to caretaker who said that they intend to start up in a month. Pictures in file.

DESERT QUEEN MINE

PINAL COUNTY

See: Casa Grande (Mines File) Casa Grande History Report

RRB WR 2/6/81: Harold Bates, Sheridan, Wyoming, staying at Ramada Inn, Casa Grande, is investigating the Desert Queen Mine on the Papago Indian Reservation, south of Casa Grande, Pinal County. He reports that he has an option to buy the property from Bill Copeland of Casa Grande. He is doing surface sampling plus some sampling in the old workings.

KAP WR 5/1/81 Tom Flannagan, Box 396 Glastonbury Connecticut 06033 reported he is interested in purchasing the Desert Queen Mine. Information necessary to make such a decision was discussed.

RRB WR 12;11;81: Visited the Desert Queen Mine, Sec. 31, T9S R5E, Pinal County. Recently built block house, tin shed and conc rete slab with plumbing cast in. Found no evidence of mining activity at this time.

RRB WR 4/12/85: Harold Bates reports that he bought the Desert Queen (f) Pinal Co. in 1981 and resold it. He said that the new owner has drilled the property and found ore "in quantity."

KAP WR 10/10/86: Don Anderson, Green Valley, phone 625-6278, consultant for Apex Energy (c) explained his company is evaluating the Desert Queen Mine (file) Pinal County. It appears to have 200,000 tons of ore running 0.25 - 0.3 tr oz/ton gold and 2 tr oz/ton silver across a 5 foot mining width. Mining if commenced would be underground.

NJN WR 10/10/86: Don Anderson (c) consultant for Apex Energy Corp, (c) report they are working at the Desert Queen (f) Pinal County. The property was drilled in 1981 by Sage & Associates who apparently misinterpreted the data. Apex hopes to test 2 parallel veins. They believe there is a possibility of 200,000 tons underground, or, if there is significant mineralization between the veins, possibly 500,000 tons by open pit.

Desert Queen Mine file

May 6, 1981

Mr. Tom Flannagan
P.O. Box 396
Glastonbury, Connecticut 06033

Dear Mr. Flannagan:

Thank you for your phone call last Friday, May 1, 1981, regarding your interest in the Desert Queen Mine in Pinal County.

Some information from our file on the mine is enclosed.

From our conversation, it is my understanding you are considering the purchase of the Desert Queen Mine and plan to put the property in production. Prior to such a purchase you should visit the property and review the available information on the mine. Listed below is the minimum information needed to make a reasonable estimate of the property's possibility of being a profitable mine. The hiring of your own consulting mining engineer to evaluate the property on your behalf, prior to your purchase, would also be very valuable.

Data Needed

1. Land status map of the general area (approximately a 2 mile radius) showing ownership of property, mining claims, patents, Federal lands and mineral rights. It should include specific property and near by holdings of others. NOT the same as a title report. Title report should be available on patented and/or unpatented claim to be purchased.
2. Map of structures, old workings, current ore bodies and sample locations, showing assay results.
3. Ore reserve calculations, giving ore grade and tonnage and current values used in calculations.
4. Metallurgical evaluation, giving best method of extraction, other methods evaluated and test results.
5. Economic projections, showing investment retirement, discounted cash flow - rate of return on investment and sensitivity analysis.

Please feel free to contact us any time we might be of further assistance.

Sincerely,

Ken A. Phillips
Mineral Resources Engineer

KAP:mw
Encl

DESERT QUEEN MINE

LOCATION

Property consists of 6 patented claims 23 miles south of Casa Grande, Arizona, one-half mile south of the Jack Rabbit Mine and one-half mile east of the Turning Points Mine.

FORMATION

This mining district is located at the northern end of the Slate Mountains, a group of andesite prophyry and lime hills that raise to an estimated elevation of 500 feet above the Santa Rosa Valley. The valley elevation is about 1150 feet above sea level.

The Slate Mountains are replacement of Pennsylvanian limestone in strong fault zones, at or near the contact with dikes of diorite porphyry classified in the field as diorite porphyry.

The ore occurs in a strong fault striking north 60 degrees east, dipping 50 to 60 degrees to the south, cutting Pennsylvanian limestone. Southeast of the fault and paralleling it is a dike of diorite porphyry 10 to 20 feet thick. The several veins and deposits of siliceous ores occur in the lime and along contact of lime and porphyry. The veins are easily traceable for full length of the claims, or about 3,000 feet. However, the best showing is in about the center of the group on top of a small hill. The vein is opened up and exposed in numerous places by open cuts and several shafts - some to a depth of about 80 feet. The many pits, short tunnels and small stopes along on the vein are shallow or close to the surface. From all appearances considerable ore must have been taken out of these workings. The vein varies in width from a few inches up to six or eight feet in places.

The tailings that were on the ground at the old abandoned mill site on the "Desert Queen Group" showed about 30 tons that was intact in the storage pile and tell the story of the mining and milling operations of the ore bearing material already found and to be expected if further development is attempted.

The tailings pile assayed gold 28/100 ozs. and silver 33/10 ozs. Pre-inflation price gold at \$20.00 means \$5.60 gold and \$2.00 silver (Silver 60¢ per oz.). The crude milling operations with the two Tremain steam stamp mills of 4 stamps that were on the ground and the amalgamation and concentration methods employed, probably recovered not to exceed 60% of the values contained in the ore. Therefore, the original value of the ore treated was \$19.10.

This material is truly high grade ore, but, of course, comes from carefully mined and selected material for the two stamp crushing plants.

The probable future value of this mining prospect is predicated upon the type of ore bearing mineralization and upon the chances we have to find the precious metal value to continue in depth.

The following list of assays taken from the ground, including 5 cars of ore shipped, gives a true description of what can be expected of the mining property:

Assays - Desert Queen Mine.

Cars of ore shipped to HAYDEN, ARIZONA, 1938.

<u>Car No.</u>	<u>Tons</u>	<u>Assays</u>	<u>Amount Per Ton</u>	<u>Total</u>
46844	29,020	Gold .335 oz. Silver 2.23 oz.	\$11.47 1.10	\$12.57
92775	23,950	Gold .305 oz. Silver 2.70 oz.	9.86 1.38	11.24
92775	24,510	Gold .25 oz. Silver 3.00 oz.	8.08 2.19	10.27
46687	50,800	Gold .27 oz. Silver 3.60 oz.	8.75 1.94	10.67
46848	48,840	Gold .286 oz. Silver 1.75 oz.	9.21 .76	9.97
46775	33,360	Gold .265 oz. Silver 1.70	8.56 .75	9.31

Sample Assays

No.125943 "DEEP SHAFT" - Gold at \$35.00 per oz.

	Gold 2.14 oz.	\$74.90	
	Silver 6.0 oz.	4.62	\$79.52
No. 1	Gold 28.100 Silver 33.10		\$19.10
No. 2	Gold 12.100 Silver 14.100		5.25
No. 3	Gold 17.100 Silver 24.10		22.13 7.75
No. 4	Gold 1.15.100 Silver 4.1/10		43.25
No. 5	Gold .27.100 Silver .16/10		10.65

		<u>Gold Value</u>	<u>Silver</u>	
No. 1	Gold .40 Silver 2.2	\$14.00	\$1.42	\$15.42
No. 2	Gold .72 Silver 2.1	25.20	1.49	26.69
No. 3	Gold 1.88 Silver 3.2	65.80	2.34	68.14
No. 4	Gold 1.18 Silver 3.1	41.30	2.20	43.50
No. 5	Gold .28 Silver 2.1	9.80	1.49	11.29

I might also add that over a series of assays by different individuals and average of \$16.55 was obtained on 40 assays. Although in early days they ran through in the mill that was on the ground an average of about \$20.00 ore.

My understanding is that the adjoining property, the Jack Rabbit Mine, had a high silver chloride ore running several hundred dollars per ton about water level, but were forced to cease operations due to an excessive flow of water on the 400 ft. level. The property was reputed to have made its owners better than a million dollars. Likewise the Desert Queen made money for its owners at that time. As the deepest workings on the Desert Queen are not over 80 feet in depth lies the possibility of larger ore bodies as depth is gained as the \$79.52 assay shows.

Excerpt from Economic Geological Reconnaissance
of Casa Grande Mining District
By J. B. Tenney

JACK RABBIT, TURNING POINT, DESERT QUEEN, AND ORIZABA MINES

History and Production.

These four silver-gold deposits in the Paleozoic sediments at the north end of the mountain were discovered in the early eighties. The first to be exploited was the Jack Rabbit where a little carefully sorted 300-ounce silver ore was shipped in 1883 and the mine had by then been developed to a depth of 90 feet. The following year the Orizaba reported to the Director of the Mint the shipment of 5 tons netting \$2000 in silver and that about 600 tons of \$5 to \$100 ore lay on the dump. After the exhaustion of the richer outcropping ore little further work was done until about 1892 when the Jack Rabbit mine was acquired by the Casa Grande Copper and Gold Mining Company financed from Denver. The mine was developed intermittently in the succeeding ten years during which time the demonitization of silver and the consequent drop in the price to a level of less than 60 cents and ounce were discouraging factors. The ore shoot was developed to a depth of 200 feet at which depth a large flow of water was encountered. A cyanide plant was built in 1901 which was not a financial success.

In 1908 the Jack Rabbit mine passed into the hands of the Tube City Mining and Milling Company of McKeesport, Pennsylvania. The main shaft was sunk by this company to a depth of about 400 feet against a very heavy flow of water, and a little rich sorted ore was sacked and shipped until the abandonment of the mine in 1910.

The Turning Point mine adjoining the Jack Rabbit on the west, located on a probable continuation of the Jack Rabbit lode was probably found at the same time as the Jack Rabbit. The first development work was done in 1898 when it was reported that a mill to treat the ore blocked was to be erected. Work was suspended until 1902 when a 10 -stamp mill was built which treated a small tonnage, after which the mine was closed. A little high grade ore was stoped in 1911 and shipped.

The Desert Queen, adjoining the Jack Rabbit to the south was first worked from 1905 to 1907 by the Desert Queen Gold Mining Company. Considerable shallow development work was done and a Tremain steam stamp mill of 4 stamps was erected. Amalgamation and concentration methods were employed. After a short run the mine was abandoned.

The Orizaba Mine, about two miles North 50 degrees West from the Jack Rabbit is located in one of several low hills in the much dissected ridge between the Silver Reef and Slate Mountains. After the first work in the early eighties, little was done until about 1915 when the property was developed by a deep vertical shaft, and was equipped with a small mill. Since that time, lessees have stoped a little rich lead-silver ore from shallow depths, chiefly in 1923 and 1925.

The total production of the four mines has been small. Accurate figures are not available. It is probable that at least \$20,000 in silver and silver-lead ore was produced in the eighties, chiefly from the Jack Rabbit and Orizaba. The production since then has not been over an equal amount.

Geology and Ore Occurrence.

The ore bodies of the Jack Rabbit, Turning Point, and Desert Queen mines at the northern end of Slate Mountain are replacements of Pennsylvanian limestone in

strong fault zones, at or near the contact with dikes of porphyry classified in the field as diorite porphyry. At the Jack Rabbit and Turning Point, the ore is found in a strong fracture striking North 20 to 30 degrees East dipping 60 degrees to the East, at the contact of a 100-foot wide dike of porphyry and Pennsylvanian limestone, the porphyry forming the footwall of the fault. The ore consists of heavily limonite-stained sheared limestone with a little copper silicate and carbonate stain. The better ore is said to have averaged about \$18 in silver and gold. The shafts of both the Jack Rabbit and Turning Point are caved and inaccessible. The total length exposed by surface trenching between the two shafts is about 2000 feet.

A heavy flow of water was encountered in the Jack Rabbit shaft at a depth of 200 feet.

At the Desert Queen, the ore occurs in a strong fault striking North 60 degrees East dipping 50 to 80 degrees to the south, cutting Pennsylvanian limestone. Southeast of the fault and paralleling it is a dike of diorite porphyry ten to 20 feet thick. The ore consists of limonite-stained quartz and calcite with some chrysocolla stain. Most of the stoping was done in a single outcropping ore shoot 50 feet long and 80 feet deep. The fault vein has been opened at intervals by pits and cuts for a distance of about 1500 feet along the strike. The porphyry contacts are usually barren. A little lime garnet has been developed sporadically. The ore is said to have contained values in silver.

At the Orizaba Mine, two miles North 50 degrees West from the Jack Rabbit, the ore is associated with a fracture zone 50 feet wide striking north and dipping 60 to 75 degrees to the west, at the contact of Cambrian quartzite to the east and Pennsylvanian limestone to the west. The Pennsylvanian limestone is highly crushed and occurs as a block thrust over the quartzite. The eastern boundary of the block is the north-south fault zone in which the ore occurs. The contact extends to the north a distance of about 500 feet from the valley fill, and then swings to the west. The quartzite beds dip north 50 degrees East 30 degrees. The ore consists of limonite and chrysocolla-stained quartzite with seams of silver-bearing lead carbonate partly replacing the bedding and partly replacing fault gouge. The zone has been opened by shallow pits, stopes and open cuts for a total length of 300 feet on the strike of the fault zone. A vertical shaft was sunk 200 feet southeast of the zone, from which considerable work was done, judging from the size of the dump. The shaft is caved and water stands 75 feet below the surface. A second zone of fracturing within the quartzite occurs 300 feet north of the shaft. This zone strikes North 72 degrees East and dips 70 degrees to the south. It also has been extensively prospected by shallow pits and open cuts. The mineralization in this zone is similar to that in the main workings and it has been followed for a distance of about 200 feet to the northeast from its junction with the north-south zone. Altogether several thousand feet of work has been done on the property.

DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

Date March 4 1958

1. Mine: Desert Queen 16
2. Location: Sec. 31 Twp. 2 S. Range 11 E. Nearest Town: Casa Grande Distance 7.3 miles
Direction: South Nearest R.R. Casa Grande Distance 13
Road Conditions: Good
3. Mining District and County: Casa Grande Mining district, Pima County
4. Former Name of Mine: None
5. Owner: _____
Address: _____
6. Operator: _____
Address: _____
7. Principal Minerals: Gold - Silver
8. Number of Claims: Lode 6 Patented ✓ Unpatented _____
Placer _____ Patented _____ Unpatented _____
9. Type of Surrounding Terrain: _____
10. Geology and Mineralization: _____
Not in a position to
11. Dimension and Value of Ore Body: _____

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

USB M "U" FILE REPORTS VANADIUM - "NONE"

(over)

12. Ore "Blocked Out" or "In Sight":.....

Ore Probable:.....

13. Mine Workings—Amount and Condition:.....

No.	Feet	Condition
Shafts.....		
Raises.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply: *Simple water near by*

15. Brief History: *Mine has not been worked since about 1906
at that time the C. had stamp mills and other plants in operation.
do not know the true history. I inherited the property.*

16. Remarks: *Has been held in for mining possibilities.
It is for sale as listed below. This is 6 patented claims
joining the famous old Jack Rabbit mine.*

17. If Property for Sale, List Approximate Price and Terms:.....

\$50,000⁰⁰ \$5,000-1 yr \$7,500-2 yr \$10,000-3 yr \$10,000-4 yr \$17,500-5 yr

18. Signature: *Peter J. Johnson*

P.O. Box 1055 Douglas, Arizona

MD-6

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date January 13, 1940

Mine Desert Queen

TAS R 5 E Sec. 31

District - Casa Grande Mining District

Location - 23 miles south of
Casa Grande, Arizona

Former Name

Owner - Peter J. Johnson

Address - Post Office Box 1055
Douglas, Arizona

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals - Gold and Silver

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present - None

Operations Planned

Number Claims, Title, etc. - 6 unpatented claims.

Description: Topography & Geography

Mine Workings: Amt. & Condition - All workings are shallow and close to the surface not exceeding 80 ft. in depth, with ore exposed in various workings for a distance of about 3,000 feet or along line of contact.

Geology & Mineralization - Property is located in the Slate Mountains, a group of lime and andesite porphyry hills that raise to an estimated elevation of 500 ft. above the Santa Rosa Valley. The Valley elevation is about 1150 feet above sea level. The Slate Mountains are made up of schists and limestone outcrops.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet - None

Road Conditions, Route - Good highway connecting to property

Water Supply - No water on ground, but plenty to be had near by for mill.

Brief History - Property was worked years ago, and small Treaman stamp mill and cyanide plants used. Operations ceased about 1906. Mine was worked for a short time in 1938 and five cars were taken out and shipped to the American Smelter Co. at Hayden, Arizona. The ore had an average of about \$12 per ton. Property adjoins the Jack Rabbit Mine frequently mentioned in early mining history, and conceded to have produced a million dollars for its owners.

Special Problems, Reports Filed

Remarks - This is a free milling gold ore property with merit, and future possibilities.

If property for sale: Price, terms and address to negotiate - Property for sale or lease. Price \$16,000. Five year option and lease on 10% royalty basis applied on purchase price. Negotiate - Peter J. Johnson, Post Office Box 1055, Douglas, Arizona.

SIGNED - Peter J. Johnson

DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

Date Aug 7/46

1. Mine: DESERT QUEEN

2. Location: Sec. 31 Twp. 9.S. Range 5 E Nearest Town Casa Grande

Distance 2.3 S Direction South Road Condition Good

3. Mining District & County: Casa Grande Mining District, Pinal County

4. Former Name of Mine: ~~Desert Queen~~ Mining Co.

5. Owner: Peter J. Johnson

Address: P.O. Box 1055, Douglas, Ariz

6. Operator: Same

Address: "

7. Principal Minerals: Gold & Silver

8. Number of Claims: Six Lode yes Placer

Patented yes Unpatented

9. Type of Surrounding Terrain: Rugged & Rolling. The 64 Patented claims cover low ridges of tilted cherty limestones.

10. Geology & Mineralization: The numerous open pits and stopes seem to follow two main fault fractures filled with small fragments of altered lime and cemented with iron stained siliceous material. Much altered porphyry forms the hanging wall of some of the open stopes. The limestone itself is silicified and heavily stained with manganese.

11. Dimension & Value of Ore Body: There are many pits, short tunnels and small stopes, all of the work having been done on top of the ridge, or close to the surface. From all appearances considerable ore must have been taken out of this workings from about 1900 to 1906 and milled on the ground. The property was again worked prior to the war for a short period and five cars shipped to Hayden City, the smelter returns showed about 11.0% ore, too low to be profitable by shipping, but good milling ore. The returns showed about 90% gold and about 10% silver.

12. Ore "Blocked Out" or "In Sight": *Yes ore is blocked out, but good showings in the various pits, stopes, and tunnels over a distance of about 3000 ft.*

Ore Probable: *While the workings on the ground are shallow and all workings close to the surface, not exceeding over 80 ft in depth. Engineers reports indicate greater ore bodies as depth is gained.*

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts.....		<i>All workings can be entered and inspected, and are in fair condition</i>
Raizes.....		
Tunnels.....		
Crosscuts.....		
Stopes.....		

14. Water Supply: *No water is available on the ground, but unlimited water can be had from adjoining mining property The Jack Rabbit at about 200 ft.*

15. Brief History: *The "Desert Queen" was worked in the late 90 and early part of 1900. Considerable ore was mined and milled on the ground. The property was worked over a distance of about 3000 ft with small tunnels, pits and shafts, but not exceeding 80 ft in depth. The many assays taken in various workings show both high and low values, about the average run of the property would be about 11.00 to 12.00 oz. This property was worked in the early days by the Desert Queen Mining Co. later in about 1912 was acquired by Peter Johnson Sr and patented. Later the property was acquired by Peter J. Johnson the present owner.*

16. Signature: *Peter J. Johnson*

17. If Property for Sale, List Approximate Price and Terms:

Yes 18,000.00 Cash, or 25,000.00 Cash and 10% royalty not to exceed 4 years payments.

MISCELLANEOUS

This mining district is located at the northern end of the Slate Mountains, a group of andesite porphyry and lime hills that rise to an estimated elevation of 500 ft above the Santa Rosa Valley. The Valley elevation is about 1150 feet above sea level.

The Slate Mountains are replacement of Pennsylvanian limestone in strong fault zones, at or near the contact with dikes of porphyry classified in the field as diorite porphyry.

The ore occurs in a strong fault striking North 60 degrees East dipping 50 to 60 degrees to the South, cutting Pennsylvanian limestone. Southeast of the fault and paralleling it is a dike of diorite porphyry ten to twenty feet thick. The several veins and deposits of silicious ores, occur in the lime and along contact of lime and porphyry. These veins are easily traceable for full length of the claims, or about three thousand feet, however, the best showing is in about the center of the group on top of a small hill. The vein is opened up and exposed in numerous places, by open pits, short tunnels and small stops, and several shafts, some to a depth of about 80 feet. The many pits, short tunnels and small stops, along the vein are shallow or close to the surface. From all appearances considerable ore must have been taken out of these workings. The vein varies in width from a few inches up to six or eight feet in places.

The tailings pits assayed gold 28/100 oz. and silver 33/100 oz. Preinflation prices gold at 20.00 means 5.60 gold and 2.00 silver (silver 60 per oz) remained in the tailings. The crude milling operation with the two Tremain steam stamp mills of 4 stamps and the Amalgamation and concentration methods employed, probably recovered not to exceed 60% of the values contained in the ore. Therefore the original values of the ore treated was 19.10. This material is truly high grade ore but, of course, come from carefully mined and selected material for the two stamp crushing plant. The probable future value of this mining property is predicated upon the type of ore bearing mineralization and upon the chances we have to find the precious metal values to continue in depth.

Maps have been misplaced, but are
on record in Phoenix

Names of Patented Land		Acres
Silver Moon	}	33 ⁴² / ₁₀₀
Golden Pea		
Golden Chariot	}	20
Western Gold		20
Southern Gold		20
Old Gold		20

Map

Scale
Date

Section

Scale
Date

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

OWNERS MINE REPORT

Date JAN 13, 1940

Mine ✓ "DESERT QUEEN"

District Casa Grande Mining District

Location 23 miles South of Casa Grande,
Arizona

Former name

Owner ✓ Peter J. Johnson

Address P. O. Box 1055
Douglas, Arizona

Operator

Address

President

Gen. Mgr.

Mine Supt. ✓

Mill Supt.

Principal Metals Gold & Silver

Men Employed

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present None

Operations Planned

Number Claims, Title, etc. 6 Patented

Description: Topog. & Geog.

Mine Workings: Amt. & Condition All workings are shallow and close to the surface not exceeding 80ft in depth, with ore exposed in various workings for a distance of about 3,000 ft or along line of contact.

(over)

Geology & Mineralization Property is located in the Slate Mountains, a group of lime and andesite porphyry hills that raise to an estimated elevation of 500 ft. above the Santa Rosa Valley. The Valley elevation is about 1150 feet above sea level. The Slate Mountains are made up of schists and limestone outcrops.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route Good highway connecting to property.

Water Supply No water on ground, but plenty to be had near by for mill.

Brief History Property was worked years ago, and small treemen stamp mills and cyanide plants used. Operations ceased about 1906. Mine was worked for a short time in 1938 and five cars were taken out and shipped to the American Smelter Co. at Hayden, Arizona. The ore had an average of about \$12.00 per ton.

Property again the Jack Robbin mine frequently mentioned in early mining history, and conceded to have produced a million dollars off its owner.

Special Problems, Reports Filed

Remarks This is a free milling gold ore property with merit, and future possibilities.

Not change in price

If property for sale: Price, terms and address to negotiate. Property for sale or lease. Price 6,000 ~~\$20,000~~ 5 year option and lease on 10% royalty basis applied on purchase price. Negotiate - Peter J. Johnson, P. O. Box 1055, Douglas, Arizona

Signed Peter J. Johnson

Douglas Ariz
July 23, 1940

Mr. J. S. Causal
Department of Mineral Resources
Phoenix, Arizona

Dear Mr. Causal:

I am in receipt of your letter of July 3rd and an enclosing answer report on mine, would have answered sooner, but had parties in the East whom I thought might be interested. I have reduced the price of my property from \$20,000.00 to \$16,000.00, which is the cost of the property in 1912, and am sure it is well worth the money for one who knows the mining business and willing to take a chance.

As I am in the cow-business and not a mining-man is my reason for placing such an attractive price on the property, which I received from inheritance. Any favors extended will be appreciated.

Yours very truly,

Peter Johnson
P.O. Box 1055

Douglas, Arizona
Jan 13, 1940

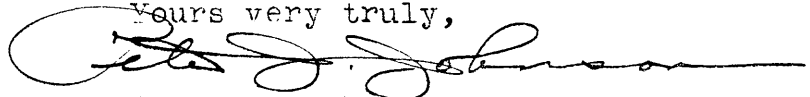
Arizona Department of Mineral Resources
Capital Bldg,
Phoenix, Arizona

Dear Sirs:

Please find inclosed Mine Report which I
would thank you to place on record for me.

Should there be any prospective buyers for
this property I am sure a satisfactory deal can be made.

Yours very truly,

A handwritten signature in dark ink, appearing to read "Peter J. Johnson", with a large, stylized initial "P" and a long horizontal flourish extending to the right.

Peter J. Johnson
P. O. Box 1055

MD-6

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date Jan. 13, 1940

Mine ☒ DESERT QUEEN

District Casa Grande Mining District

Location 23 miles south of Casa Grande,
Arizona

Former name

Owner ☒ Peter J. Johnson ☒

Address P. O. Box 1055
Douglas, Arizona

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Gold and silver

Men Employed

Production Rate

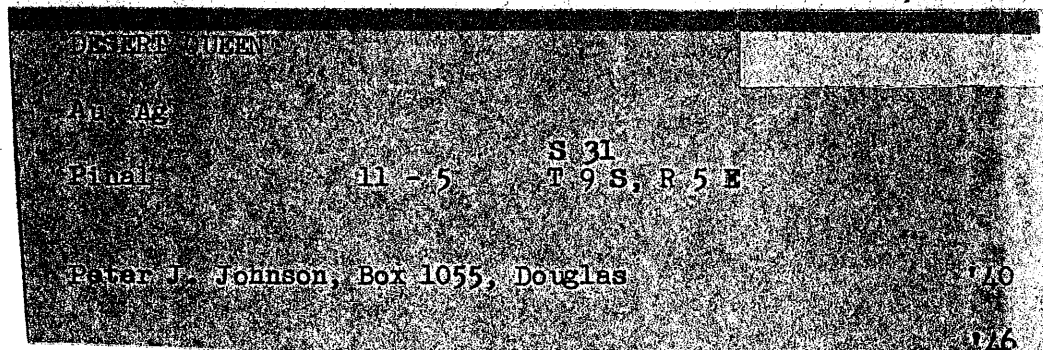
Mill: Type & Cap.

Power: Amt. & Type

Operations: Present None

Operations Planned

Wagon Road



Number Claims, Title, etc. 6 patented.

Description: Topog. & Geog.

* Mine Workings: Amt. & Condition All workings are shallow and close to the surface not exceeding 80 ft. in depth, with ore exposed in various workings for a distance of about 3,000 ft. or along line of contact.

(over)

Geology & Mineralization Property is located in the Slate Mountains, a group of lime and andesite porphyry hills that raise to an estimated elevation of 500 ft. above the Santa Rosa Valley. The Valley elevation is about 1150 feet above sea level. The Slate Mountains are made up of schists and limestone outcrops.

Ore: Positive & Probable, Ore Dumps, Tailings

Mine, Mill Equipment & Flow Sheet None

Road Conditions, Route Good highway connecting to property.

Water Supply No water on ground, but plenty to be had near by for mill.

Brief History Property was worked years ago, and small treaman stamp mills and cyanide plants used. Operations ceased about 1906. Mine was worked for a short time in 1938 and five cars were taken out and shipped to the American Smelter Co. at Hayden, Arizona. The ore had an average of about \$12.00 per ton. *Property adjoining the Jack Rabbit Mine frequently mentioned in early mining history, and conceded to have produced a million dollars for its owner.*

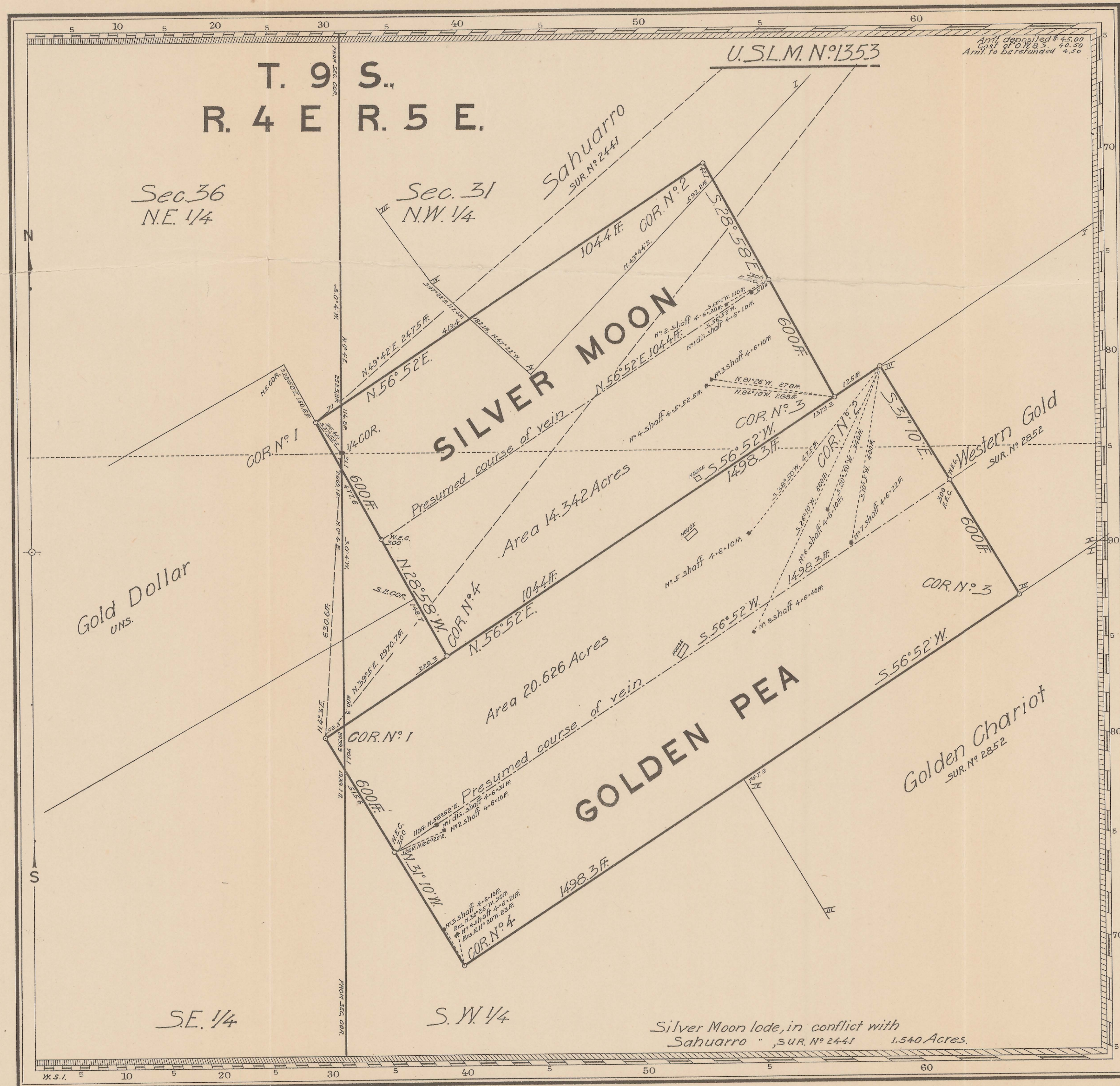
Special Problems, Reports Filed

Remarks This is a free milling gold ore property with merit, and future possibilities.

If property for sale: Price, terms and address to negotiate. Property for sale or lease. Price ~~\$20,000.00~~ 5 year option and lease on 10% royalty basis applied on purchase price.
Negotiate - Peter J. Johnson, P. O. Box 1055, Douglas, Arizona

Signed.....Peter J. Johnson.....

Use additional sheets if necessary.



Claims Located January 1, 1909

Mineral Survey No. 3176

Lot No. Arizona Land District.

PLAT

OF THE CLAIM OF

Peter Johnson
KNOWN AS THE

Silver Moon, Golden Pea

IN Casa Grande MINING DISTRICT,

Pinal COUNTY, Arizona

Containing an Area of 34.968 Acres.

Scale of 200 Feet to the inch.

Variation 13° E.

SURVEYED March 5-7, 1915 BY

Ralph I. Motz U.S. Deputy Mineral Surveyor.

The Original Field Notes of the Survey of the Mining Claim of Peter Johnson

known as the Silver Moon, Golden Pea

from which this plat has been made under my direction, have been examined and approved, and are on file in this Office, and I hereby certify that they furnish such an accurate description of said Mining Claim as will, if incorporated into a patent, serve fully to identify the premises, and that such reference is made therein to natural objects or permanent monuments as will perpetuate and fix the locus thereof. I further certify that Five Hundred Dollars worth of labor has been expended or improvements made upon said Mining Claims by claimant or his grantors and that said improvements consist of 12 shafts, total value \$2265

that the location of said improvements is correctly shown upon this plat, and that no portion of said labor or improvements has been included in the estimate of expenditures upon any other claim. And I further certify that this is a correct plat of said Mining Claim made in conformity with said original field notes of the survey thereof, and the same is hereby approved.

U.S. Surveyor General's Office. Frank Ingalls
Phoenix, Arizona. U.S. Surveyor General for
June 30, 1915. Arizona.