



## **CONTACT INFORMATION**

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

The following file is part of the

Arizona Department of Mines and Mineral Resources Mining Collection

## **ACCESS STATEMENT**

These digitized collections are accessible for purposes of education and research. We have indicated what we know about copyright and rights of privacy, publicity, or trademark. Due to the nature of archival collections, we are not always able to identify this information. We are eager to hear from any rights owners, so that we may obtain accurate information. Upon request, we will remove material from public view while we address a rights issue.

## **CONSTRAINTS STATEMENT**

The Arizona Geological Survey does not claim to control all rights for all materials in its collection. These rights include, but are not limited to: copyright, privacy rights, and cultural protection rights. The User hereby assumes all responsibility for obtaining any rights to use the material in excess of "fair use."

The Survey makes no intellectual property claims to the products created by individual authors in the manuscript collections, except when the author deeded those rights to the Survey or when those authors were employed by the State of Arizona and created intellectual products as a function of their official duties. The Survey does maintain property rights to the physical and digital representations of the works.

## **QUALITY STATEMENT**

The Arizona Geological Survey is not responsible for the accuracy of the records, information, or opinions that may be contained in the files. The Survey collects, catalogs, and archives data on mineral properties regardless of its views of the veracity or accuracy of those data.

08/07/91

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: DOUBLE EAGLE

ALTERNATE NAMES:

GOLDEN EAGLE  
GOLD LEAF VEIN

YAVAPAI COUNTY MILS NUMBER: 1164

LOCATION: TOWNSHIP 12 N RANGE 2 W SECTION 16 QUARTER NW  
LATITUDE: N 34DEG 23MIN 20SEC LONGITUDE: W 112DEG 28MIN 45SEC  
TOPO MAP NAME: GROOM CREEK - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

GOLD

BIBLIOGRAPHY:

USGS GROOM CREEK QUAD  
ADMMR DOUBLE EAGLE FILE  
BLM AMC FILE 18949  
WILSON, E.D. AZ LODE GOLD MINES AZBM BULL  
137 1967 P 50  
CLAIMS EXTEND INTO SEC. 9, 10, 11, 15 & 17

DOUBLE EAGLE GOLD MINES

T12N R2W Sec 16  
YAVAPAI COUNTY  
SLATE CREEK DIST.

Long dead - no info.

TRAVIS P. LANE - 3-62

---

Skillings Mining Review, January 26, 1974, p. 22

\* GENERAL REFERENCES

File  
Double Eagle Gold Mines

- REFERENCE 1 F1 < USBM-ABGMT FILE TA
- REFERENCE 2 F2 < ABM BULL 137 Q.50 Data
- REFERENCE 3 F3 < USGS GR MAP GR 997
- REFERENCE 4 F4 < AZ DEPT MINERAL RESOURCES FILE DATA

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 < > RECORD TYPE B20 < X, I, M > DEPOSIT NUMBER B40 < >  
 REPORT DATE G1 < 8.1.1.1 > INFORMATION SOURCE B30 < 1.2 > FILE LINK IDENT. B50 < USBM-004 025 0809 >  
 REPORTER(SUPERVISOR) G2 < LARABA, PETER (last, first, middle initial) > < DEWITT, ED (last, first, middle initial) >  
 REPORTER AFFILIATION G5 < ABGMT > SITE NAME A10 < GOLDEN EAGLE MINE >  
 SYNONYMS A11 < GOLD LEAF CLAIM >

LOCATION

MINING DISTRICT/AREA A30 < HASSAYAMPA DISTRICT >  
 COUNTY A60 < YAVAPI > STATE A80 < AZ > COUNTRY A40 < U.S. >  
 PHYSIOGRAPHIC PROV A63 < 1.2.1. >  
 DRAINAGE AREA A62 < 1.5.0.7.0.1.0.3. > LAND STATUS A64 < 0.0.1. >  
 QUADRANGLE NAME A90 < GROOM CREEK (1974) > QUADRANGLE SCALE A100 < 24000 >  
 SECOND QUAD NAME A92 < > SECOND QUAD SCALE A91 < >  
 ELEVATION A107 < 5600 FEET >

UTM ACCURACY GEODETIC  
 NORTHING A120 < 3806080 > ACCURATE ACC (circle) ESTIMATED EST < > LATITUDE A70 < >  
 EASTING A130 < 262960 > LONGITUDE A80 < >  
 ZONE NUMBER A110 < 12 >

CADASTRAL  
 TOWNSHIP(S) A77 < 0.2.N. > RANGE(S) A78 < 0.2.W. >  
 SECTION(S) A79 < 16 >  
 SECTION FRACTION(S) A76 < NE OF NW OF NW >  
 MERIDIAN(S) A81 < GILA AND SALT RIVER >

POSITION FROM NEAREST PROMINENT LOCALITY A82 < 4.6 MILES SW OF MT UNION LOOKOUT TOWER >  
 LOCATION COMMENTS A83 < SHAFT AND ADITS FOUND ON A BRANCH OF SLATE CREEK >

\* ESSENTIAL INFORMATION  
 + ESSENTIAL SOMETIMES OR HIGHLY RECOMMENDED



R E P O R T

ON THE

DOUBLE EAGLE GROUP OF

MINES.

Double Eagle Gold Mines  
Robert HANSON, Prescott, ARIZ.

PROPERTY:

The property consists of 9 full sized mining claims, each 1500 x 600 ft. with contiguous boundaries embracing an area of approximately 180 acres of mineral ground.

LOCATION:

The property is situated 21 miles in a southerly direction from the town of Prescott, Yavapai County, State of Arizona, with which it is connected by a good automobile highway.

The section is known as the Slate Creek Mining District, on the southern slope of the Sierra Prieta range of mountains, and is noted for its gold production during the early days of mining in the country.

112N  
26  
See 16

TOPOGRAPHY:

Topographically the section in which this group lies, is high mountains and deep gulches on the north with long ridges or backbones sloping off gradually to the low country on the south.

It is along these ridges where the veins of ore are found by outcrop.

Owing to the deep gulches and high ridges, extreme advantage to development may be had by tunneling on the veins or cross-cutting the formation to and then drifting on the veins.

GEOLOGY:

The country rock is principally made up of metamorphic schist which can be classed as amphibolite and of pre-Archean age, intruded by dykes of porphyry, evidently of pre-Chambrian age.

The belt of schist is several miles in width with a north south strike and forms contact with a belt of granitic gneiss on the east and a stock of Bradshaw granite on the west.

Quartz veins are numerous throughout the schist area and crop on the surface in various widths and lengths, from a few inches to several feet, following the striations of the schist and on the contact of porphyry and schist.

## VEINS AND ORE:

'GOLD LEAF vein, course, 11 degrees east of north, a lenticular quartz vein in the schist, 2 to 3½ feet in width.

Ore occurs in lenses following one another along approximately the same plane in the schist. Some lenses are found with offsets along joint planes and other overlapping. Ore zone is perpendicular and lenses have rake to the north.

Vein crops on the Gold Leaf claim for a distance of 500 ft. Ore is quartz with iron oxides carrying gold.

'GOLDEN EAGLE vein, average width 2 ft. on contact between schist and porphyry walls perpendicular, course of vein 50 degrees east of north, ore occurs lenticular in the vein with rake to the north.

## DEVELOPMENT:

'GOLD LEAF vein, there is a 75 ft. shaft now producing ore averaging \$50.00 per ton in gold from a 2 ft. vein exposed in the bottom and in a 12 ft. drift to the south at the bottom of the shaft.

This vein is also being developed from a 500 ft. cross-cut tunnel at 300 ft. lower elevation than collar of shaft. Drifts have been run north and south from cross cut tunnel.

The north drift has been run 50 ft. on the vein and a 37 ft. winze sunk in bottom of drift, records in the office of the company show that a lot of 12 tons of ore taken out of this winze averaged at the Hayden smelter \$80.40 per ton gold values.

The south drift has been extended 150 ft. on the vein, at the 80 ft. point in drift, a raise has been put up 60 ft. and stoping operations are being carried on in the ore which is going to the mill at an average gold value of \$25.00 per ton.

'GOLDEN EAGLE vein is developed by a 60 ft. shaft and 35 ft. of drifting 8 ft. above bottom. Ore shows all the way down and has average value of \$25.00 gold values as milled in company mill.

A cross-cut tunnel has been started from the gulch at a point approximately 500 south and 250 below collar of shaft and advanced 300 ft. This tunnel has not reached the vein but has cut five small quartz veins from which the ore was piled on the dump and assays \$12.00 gold per ton.

A 10-ton lot of ore, made up as a composite sample from the Golden Eagle shaft, Gold Leaf shaft and lower drifts on Gold Leaf vein was run through the company mill on the ground and gave the following results:

10 tons Ore:

Gold Bullion	\$138.00
500# Conc'ts. \$168.00 per ton	42.00
Gold left in batteries	25.00
Loss per ton @ \$8.00	<u>80.00</u>
Value of 10 tons	285.00
Value of 1 ton	28.50
Recovered by amalgamation per ton	16.30

EQUIPMENT:

Equipment on the property consists of mill, 2 Straub 10 stamp mills, 2 amalgamating plates, 1 Wilfley Table, one 25 H.P. Hot head engine, 2 ore crushers, one 8000 gallon water tank, 2 ore feeders, shaftings, pulleys, belts, 1 water pump, 3000 feet pipe.

All the above in condition as good as new. The machinery is well set up on concrete foundations and housed in good corrugated iron building and cost - - - - \$10,000.00

MINE:

1 compressor plant consisting of 9x8 compressor, one 37 H.P. Semi-Deisel F. M. engine and all necessary auxiliary appurtenances, concrete reservoir, all housed in corrugated iron building; Machinery in first class shape, cost set up - - -	\$5,000.00	
Complete Blacksmith shop	450.00	
Mine tools	1,500.00	
6 tons trail	450.00	
4 mine cars	425.00	
Truck	900.00	
2 air hoists	630.00	
1000 ft. cable	250.00	
4 ore buckets	<u>100.00</u>	9,705.00

CAMP:		
4 bunk houses	900.00	
One 4 toom boarding house	400.00	
Boarding house equipment	500.00	<u>1,800.00</u>
		21,505.00
Mine development consists of		
1300 ft. tunnels	13,000.00	
1500 ft. shafts	3,000.00	
2200 ft. drifts	1,600.00	
75 ft. raises	375.00	<u>17,971.00</u>
Supplies on hand in way of		
powder, fuse, carbide, fuel		
oil, tube oil:		<u>1,000.00</u>
Representing a total investment to date \$ <u>40,480.00</u>		

RECOMMENDATIONS:

There are two ore zones now partially opened up that warrant further development and a system of mining should be formulated that will result in putting enough ore in sight to supply a mill with at least 25 tons per day.

GOLD LEAF: The winze now started in drift south of cross-cut tunnel should be sunk at least 200 ft. and drifts run north and south to the extreme limits of the ore zone at 50 ft. intervals.

The stope above tunnel level should be put in shape to cheaply mine the ore and dispose of the waste. The raise should be extended up and connected with the 75 ft. shaft above. This will afford air circulation, and cheap mining of the ore that it would develop.

The 75 ft. shaft should be equipped with a hoisting plant and the shaft sunk at least 200 ft. deeper. Drifts at the present bottom should be advanced into the ore zone and drifts should be run at each additional 50 ft.

GOLDEN EAGLE: The 60 ft. shaft should be equipped and deepened at least 200 ft. with drifting at regular intervals to block out the ore ahead of extraction. The water tunnel should be advanced through the porphyry to prospect the schist porphyry contact, drifting from this tunnel would be contingent upon development.

MILL: The two 10 stamp mills are not suitable for the ores of this property; the ore is hard and the stamps too light. In fact in a fair trial has shown their combined capacity to be less than 5 tons per day. Therefore, it will be necessary to purchase and install a ball mill with classifier in closed circuit, arranged for amalgamation on plates below classifier, followed by flotation, and arranged to return as much water as possible to augment the present supply. There is ample water available for 25 ton plant, provided 50% is returned each day.

The power plant in mill now will handle the new mill except the blower to furnish a large volume of low pressure air for flotation cells which will require an additional 10 H.P.

**COST ESTIMATES:**

Estimated cost of mill requirements installed		\$7,500.00	
Mine equipment consisting of 2 small hoisting plants, compressor, power for same, additional tools, rails, pipe etc.		5,500.00	
200 ft. winze @ \$25.00 Gold Leaf		5,000.00	
600 ft. drifting from winze @ \$10.00		6,000.00	
100 Main Shaft @ \$25.00		2,500.00	
400 ft. drifting main shaft @ \$10.00		4,000.00	
200 ft. shaft Golden Eagle @ \$25.00		5,000.00	
500 ft. drifting from shaft @ \$10.00		5,000.00	
300 ft. tunnel @ \$10.00		3,000.00	
Road work		1,000.00	
Camp, water supply, buildings		1,000.00	
Administration Engineering etc.		5,500.00	\$50,000.00

SEQUENCE OF OPERATIONS:

Sinking main winze, cutting stations and drifting should go ahead without interruption, and at least two levels run while mill is being rehabilitated; also all possible headway should be made with sinking and drifting in the two main shafts, during this time, so that all mining work will be systematized for ore production up to the capacity of the mill when it is ready to operate.

With ample funds on hand at the start so as to insure completion of the plans as outlined the property should be a profitable producer in six months' time.

OPERATING COSTS:

OPERATING COSTS:

Mining the ore and keeping up develop- ment - per ton	4.50
Milling	1.50
Loss in tailings @ 5%	2.00
Marketing bullions and concentrates	.25
Overhead expense	<u>.50</u>
Total operating cost - per ton	\$ 8.75

CONCLUSION:

It is my belief that the property has outstanding merit as a gold mine and that with funds provided and spent as above outlined it will be put on a profitable paying basis that can be maintained for a long period of time.

I consider the present management thoroughly competent.

Respectfully submitted,

EDWARD L. TOMLINSON,  
Mining Engineer.

Prescott, Arizona.  
January 12, 1932.

AMERICAN SMELTING & REFINING COMPANY  
HAYDEN PLANT.  
Arizona.  
June 21, 1926.

Bought of Golden Eagle Mining Group,  
Prescott, Arizona.  
Classification - Concts.

Smelter Lot 500  
Shipper's Lot 1

Car No. 37436. Initial AT

N. Y. Quotations  
Date 6-15-26

<u>WEIGHT IN POUNDS</u>			<u>Dry</u>
		H <sub>2</sub> O	Weight
Gross	55740		
Tare	44780		
Net	10960		
Sacks	184		
	<u>10776</u>	1.2	10647
Tons	5.48		5.3235

Silver	.6550
E&MJ	6-12-26
Copper	.13588
Less	.0265
Net	.10938

PAYMENT FOR METALS

Gold 1.14 oz. per ton of 2000 lbs. @ \$19.50	22.23
Copper - % per ton of 2000 lbs. 2.50%	
% deducted 8#	
Net assay 2.1%	
Equivalent in Lbs. 42	
42 lbs. @ .10938	<u>4.59</u>

Total 26.82

Base Charge f.o.b. Hayden Plant 5.00  
Account sacked shipment .50

Total deductions 5.50

Net Value per Ton \$ 21.32

Total Value on 5.3235 dry tons @ 21.32 per ton 113.50

Empty sacks returned 1.01

Sampling 10.00

Freight prepaid

Balance due shipper 102.49

\$ 113.50 113.50

BNH

RB

AMERICAN SMELTING & REFINING COMPANY  
HAYDEN PLANT  
Hayden, Arizona.  
June 2nd, 1925.

Bought of Golden Eagle Mining Group,  
L. Neuenschwander & Herman S. Davis,  
Prescott, Arizona.

Crude. Smelter Lot 343. Shipper's Lot 1.

Car. No. 41630.  
Init. AT

N.Y. Metal Quotations

<u>Weight in Avoirdupois Pounds</u>		
Gross	Sacks	Net weight
.65880	40120	25760
	Sacks	210
		<u>25550</u>
	Tons	12.88

Settlement date	5/28/25.	
Silver	.67875	Cts. per oz.
Date	.1336	5/23/25
E&MJ	.0265	
Copper	.1071	Cts. per lb.

Moisture 1.0%	Dry weight
	25294
Tons	12.647

PAYMENTS FOR METALS

	Assay per ton 2000 lbs.	% de- ducted	Net assay	Equip- alent in lbs.	% pd. for	Net pd for	Rate	Amount per ton
Gold	3.90 oz.				100	3.90	19.50	76.05
Silver	.60 oz.	.50	.10		100	.10	.67875	.07
Copper	2.40	8 #	2.0	40#	100	40#	.1071	<u>4.28</u>

Total Payment for Metals 80.40

Treatment charge f.o.b. Hayden Plant 5.00  
Handling of sacked shipments .50

Total deductions 5.50

Net value per ton 74.90

Total value on 12.647 dry tons @ \$74.90 per ton	947.26
Less freight on 12.88 wet tons @ \$6.06 = 78.05	
Freight prepaid <u>75.18</u>	2.87
Less extra charge for sampling, acct. under 15 Tons	10.00
Less freight on empty sacks returned	1.13

Balance due Shipper 933.26

\$ 947.26 947.26

RB

CCF