



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

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02/26/87

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: DEFIANCE MINE

ALTERNATE NAMES:

COSTELLO GROUP

COCHISE COUNTY MILS NUMBER: 225

LOCATION: TOWNSHIP 19 S RANGE 25 E SECTION 32 QUARTER NW
LATITUDE: N 31DEG 44MIN 33SEC LONGITUDE: W 109DEG 49MIN 22SEC
TOPO MAP NAME: GLEESON - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD
ZINC
SILVER
COPPER
GOLD LODE

BIBLIOGRAPHY:

KEITH, S.B., 1973, AZBM BULL. 187, P. 81

ABM Bull. 123 Plate III p. 74

See: IC 8236 p. 24

ABM # 158 p. 19 (Defiance)

MAPS - Upstairs in the ABM rolled file boxes - 3 sketch maps showing underground workings on the Defiance Mine; 1 survey map showing location of the Silver Bill and underground workings

See: Mineralogical Record, Arizona IV, Volume 14, #2, Pgs. 127-132

COSTELLO GROUP

COCHISE COUNTY

MG WR 8/21/81: Silver Ridge Mining Co. (Tombstone, Cochise County) officially went on stand-by July 17. The company is waiting for the price of silver to improve. The Nicholas mine shaft is down to 150 feet; planned depth is 400 feet.

Houston Mining and Resources, via Silver Ridge Mining Co., evaluated the Costello group (including the Silver Bill and Defiance Mines) in the Dragoon Mountains of Cochise County. Mr. Jack Irvine, a geologist with Silver Ridge, did much of the evaluation. He believes the property will be turned back to the Costello estate. Mr. Irvine thinks an individual lessee might mine a small amount of ore at a profit from the property. He does believe there is potential for a porphyry copper deposit at depth. He thought ASARCO, Phelps Dodge, and Phillips had drilled some deep holes with that thought in mind.

MG WR 5/6/83: Visited the Copper Belle and Silver Bill mines, Cochise County. There is no activity at either of these properties.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Costello Group - Defiance Mine Date Jan. 14, 1965
District Turquoise District, Cochise County Engineer Axel L. Johnson
Subject: Field Engineers Report. Information from Leslie (Jack) Conley.

References: Report of Dec. 5, 1957 and previous reports.

Location: Sec. 29 - T. 19 S. - R. 25 E. About 1 mile N of Gleason.

Owners: Costello Estate

Lessee or Optionee: Leslie (Jack) Conley, Box 517, Tombstone, and partner Mr. Kennedy.

Number of Claims: 10 claims

Principal Minerals: Lead, with silver, and some zinc.

Present Activity: None. Exploration work has been discontinued and option or lease has been dropped, on account of failure to find sufficient amount of ore.

Review of Recent Operations: Exploration work was started in February, 1964 by Mr. Conley and Mr. Kennedy, and the work continued at various times during the remainder of the year.

The exploration work consisted principally of long hole drilling from the old mine workings (last worked by Giacomis in 1957).

Mr. Conley now reports that they were unable to find sufficient ore for a profitable mining operation, and they are, therefore, discontinuing the project.

Additional: Mr. Conley also reported that the Shannon Mining Co. has given up the Shannon Mine permanently. Mr. Conley was formerly mine superintendent at the Shannon Mine for the Shannon Mining Co., a subsidiary of the Peru Mining Co. (1956-1957).

Visited the Defiance Mine of the Costello Group in Gleason. No Activity.

GWI WR 7/10/65

References: ABM Bull. 123, Plate III, p. 74
IC 8236, p. 24
ABM Bull. 158, p. 19 (Defiance)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Costello Group --- Defiance Mine

Date Dec. 5, 1957

District Turquoise District, Cochise Co.

Engineer Axel L. Johnson

Subject: Present Status ---- Information from Tony Giacom, Jim Giacom, and Personal Visit.

References Report of May 7, 1957 and Jan. 5, 1956.

Location Sec. 29 -- T 19 S -- R 25 E. About 1 mile N. of Gleeson.

Owners Costello Estate

Lessees & Operators Anthony P. Giacom, Box 546, Tombstone, Ariz.
Jim G. Giacom, Tombstone, Ariz.

Number of Claims 10 claims.

Principal Minerals Lead, with Silver, and some Zinc.

Present Mining Activity Stoping ore and shipping to smelter. 50 tons per month. 2 men.

Geology & Mineralization Ore occurs as replacements in limestone, generally along the fissures.

Ore Values Lead averages above 20 %. Silver varies from 1 to 10 oz. Zinc is 5 to 15 %.
Ore is all carbonates.

Milling & Marketing Facilities Ore shipped to the A. S. & R. smelter at El Paso, Texas.

New Work Since report of May 7, 1957, the winze was extended an additional 75 ft. from the second or 150 ft. level to the third or 225 ft. level. Also about 380 ft. of drifting has been done on the third level.

Present Mining Operations Mining out the present stopes, preparatory to possible closing of the mine on Jan. 1, 1958.

Proposed Plans Operators plan on closing the mine on Jan. 1 on account of the present low price of lead. Operators claim they are, at present, losing money on the operations.

Visited Gleeson area to follow up report that a Mr. Conley was operating the Costello Group - Defiance Mine. Found that he had worked there for two weeks and left there one week ago.

ALJ WR 3/17/64

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Costello Group -- Defiance Mine

Date May 7, 1957

District Turquoise District -- Cochise Co.

Engineer Axel L. Johnson

Subject: Present Status. Information from Tony Giacoma and personal visit.

Location Sec. 29 -- T 19 S -- R 25 E. About 1 mile north of Gleeson.

Owners Costello Estate

Lessees & Operators Anthony P. Giacoma, Box 546, Tombstone, Ariz.
Jim G. Giacoma, Tombstone, Ariz.

Number of Claims 10 claims.

Principal Minerals Lead, Silver, with some Zinc.

Present Mining Activity Sinking winze. Temporarily no ore production due to a strike at the A. S. & R. smelter at El Paso. Usual production about two carloads of ore per month.

Ore Values Lead usually averages better than 20 %.
Silver variable from 1 to 10 oz.
~~Small~~ Small amount of Zinc, which is not paid for by the smelter.
Small amount of Gold --- about \$ 1.50 per ton.
Ore is all carbonates.

Milling & Marketing Facilities Ore is shipped to the A. S. & R. smelter at El Paso.

Mine Workings See report of Aug. 15, 1952. Since that time, a winze, 75 ft. deep has been sunk from the 75 ft. level or 1st level, and this winze is now being extended. Also most of the ore above the 150 ft. level, or 2nd level, has been stoped out.

Present Mining Operations (1) Sinking winze. Present winze is 75 ft. deep, extending from the 75 ft. or the first level to the 150 ft. of second level. The winze is now being sunk 50 to 75 ft. deeper to get down below the level of the present stoping operations and to save hoisting the ore up to the 150 ft. level for hoisting a second time up through the winze.

(2) Stopping operations. Ore is now stoped below the 150 ft. or second level. Ore is hoisted up to the 150 ft. level, transported to the winze, hoisted up the winze to the 75 ft. level, transported to the shaft, hoisted up the shaft, and dropped in the ore bin.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Costello Group -- Defiance Mine

Date Jan. 5, 1956.

District Turquoise District -- Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report. Information from operators and personal visit.

Location Sec. 29 -- T 19 S -- R 25 E.
About one mile north of Gleeson.

Owners Costello Estate.

Lessees and Operators Anthony P. Giacom, Box 546, Tombstone, Arizona.
Jim G. Giacom, Tombstone, Arizona.

Number of Claims 10

Principal Minerals Lead, Zinc, Silver.

Number of Men Working 4

Production Rate About one carload of ore every 10 days. About 2 to 3 carloads per month.

Ore Values 18 to 25 % Lead (average better than 20 %)
1 to 2 oz. in Silver.
Very little Zinc.
All carbonates.

Marketing Facilities Shipping the ore to the A. S. & R. smelter at El Paso, Texas.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Costello Group ---Defiance Mine

Date May 15, 1953

District Turquoise Dist., Cochise Co.

Engineer Axel L Johnson

Subject: Mine Report ---- Personal Visit

Location Sec. 29 -- T 19 S -- R 25 E
One mile north of Gleeson. Very steep road last 1/4 mile.

Owners Costello Estate

Lessees and Operators Tony Giacom^o and Jim Giacom^o, Tombstone, Ariz.

Number of Claims 10

Principal Minerals Lead, Zinc and Silver. Ore is in the form of carbonates.

Men Employed 3 men. All on day shift.

Production Rate Mining and shipping from 75 to 100 tons of ore per month.

Marketing Facilities Shipping the ore to the A. S. & R. smelter at El Paso, Texas.

Ore Values Lead 15 to 25 % (aver. about 20 %). Silver 5 to 6 oz. Zinc 10 to 15 %, which smelter does not pay for. About \$1.50 per ton of Gold. Ore in the form of carbonates.

Mine Workings See report of Aug. 15, 1952.

Present Operations Stoping operations about 50 ft. above the main drift.

Costello Group --- Defiance Mine

5-15-53

A.L.J.

This mine is owned by the Costello Estate, and is leased to Tony Giacoma and Jim Giacoma of Tombstone, Ariz. The mine is located about one mile north of Gleeson.

The operators produce from 75 to 100 tons of ore per month, and ships the ore to the A. S. & R. smelter at El Paso, Texas. The ore averages about 20 % Lead, 5 to 6 oz. Silver and a small amount of Gold. The zinc (no pay for same) runs from 10 to 15 %. Practically all the ore is in the form of carbonates. 3 men are employed in the mining operation.

COSTELLO ESTATE (Owner)

5-15-53

MINE - COSTELLO GROUP, Turquoise Dist., Cochise County. 5-15-53
one mile north of Gleeson, Ariz. (10 claims)

DEFIANCE MINE , Leased to Jim & Tony Giacoma, Tombstone, Ariz.
SILVER BELL

NEW

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Costello Group ✓

Date Aug. 15, 1952.

District Turquoise Dist., Cochise Co.

Engineer Axel L. Johnson

Subject: Mine Report ---- Personal Visit

Location 1/2 mile north-east of Gleeson.

TIPS RZSE

Number of Claims 10 claims.

Owners Costello Estate ✓

Lessees and Operators Jim Giacoma, Tombstone, Arizona.
Tony Giacoma, Tombstone, Arizona.

Metals Mined Lead, Zinc, and Silver. Ore in the form of carbonates.

Men Employed 4 men---- all on day shift.

Production Rate They get out 10 tons per day when stoping. Most of the work so far has been on development. 50 tons of ore was shipped last month. Development work is being done at the present time.

Milling Facilities None.

Marketing Ore is shipped to the A. S. & R. Co. smelter at El Paso, Texas. No pay for the zinc content.

Geology Ore occurs as replacements in limestone, generally along the fissures.

Ore Values Lead -- 15 to 25 per cent; Zinc -- 15 to 20 per cent; Silver -- 5 to 10 ounces. Ore in the form of carbonates.

Mine Workings On the Defiance claim, where mining operations are now being conducted, there is a 75 ft. deep shaft inclined 45 degrees (sank in 1951), and there is a drift 500 ft. long.

On the Silver Bell claim, just east of the Defiance, there is an old shaft, 200 ft. deep, inclined about 25 to 30 deg. with a lot of drifts and stopes and old workings from same. Ore evidently all mined out to a depth of 200 ft. on the incline.

Present Operations Mostly on development, but some stoping when ~~ore~~ ore is encountered.

Proposed Plans Continue exploration work and development principally, until more ore is developed.

NAME OF MINE: COSTELLO ✓

COUNTY: Cochise S

DISTRICT:

METALS: Cu

OPERATOR AND ADDRESS:

MINE STATUS

DATE: 6/2/44
Box 498 ✓
Jas. Giacomo, Tombstone

DATE: 6/2/44 Shipping
10/45 Idle

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA	
COCHISE COUNTY	MM 1580 Wulfenite, Calcite, etc. Fluorescent
GLEESON	2572 Wulfenite
<u>DEFIANCE MINE</u>	4304 Wulfenite
MILS # 225 (F)	5038 Wulfenite
1-AKA	5038 Calcite on Wulfenite
	5039 Calcite on Wulfenite
	5040 Wulfenite
	5338 Wulfenite
	5339 Wulfenite
	6205 Calcite on wulfenite
	3786 Wulfenite
	9994 Wulfenite
	MM M 524 Wulfenite
	M 127 "
	MM M 110 Wulfemite

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

USA ARIZONA

Cochise Co
Courtland landmark
Defiance mine

MILS #225 (F)

1-2KA