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PRINTED: 03/05/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: GLADSTONE MINE GROUP

ALTERNATE NAMES:

INDEPENDENCE
THESSALIA
EUREKA
ARIZONA
RAY
ATHENS

SANTA CRUZ COUNTY MILS NUMBER: 5

LOCATION: TOWNSHIP 23 S RANGE 16 E SECTION 30 QUARTER W2
LATITUDE: N 31DEG 23MIN 53SEC LONGITUDE: W 110DEG 45MIN 03SEC
TOPO MAP NAME: CUMERO CANYON - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

COPPER SULFIDE
SILVER
GOLD
LEAD SULFIDE
ZINC SULFIDE

BIBLIOGRAPHY:

ADMMR GLADSTONE MINE GROUP FILE
USBM FIELD NOTES
LENON'S MAP, SANTA CRUZ CO. - RBT LENON 1962
AZBM, 1927-29, HIST. MNG IN AZ, P. 313
AZBM BULL 191, "INDEX OF MNG PROP. IN SANTA
CRUZ CO.", P. 80
USGS BULL 582, P. 316



Gladstone Mine Group
T. 23 S. R. 16 E. Sec. 30 W. 2

INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1981
R 15 E 523000mE 110°45'

ROAD CLASSIFICATION

Primary highway, hard surface _____ Light-duty road, hard or improved surface _____
Secondary highway, hard surface _____ Unimproved road _____
○ Interstate Route ○ U. S. Route ○ State Route



CUMERO CANYON, ARIZ.

NE/4 NOGALES 15' QUADRANGLE

N3122.5—W11045/7.5

1981

From
WIDE WORLD OF MAPS, INC.
ARIZ. MAP SHOP & GALLERY
Phoenix, Arizona

DMA 3846 IV NE—SERIES V898

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Madeline Minchin

Company:

Address: 1118 W. Coronado Road

Phoenix, Arizona 85007

2. Phone: 252-0317

3. Mine:

4. ADMMR Mine File: GLADSTONE MINE GROUP

5. County: Santa Cruz, MILS #5

6. Summary of information received, comments, etc.:

Mrs. Minchin was in to discuss a lease agreement on her patented Arizona and Athens claims in W1/2 Sec. 30, T23S R16E with International Dorado Resources (c), 802-625 Howe Street, Suite 820, Vancouver, BC V6C 2T6. International Dorado proposes to lease the patents from her for 10 years at \$5,000 annual minimum royalty with a 5% net smelter after the \$5,000. Carl Wuest (c) Dekon Corp. (c) is handling the negotiations for International Dorado. He was found actively doing exploration work on the property by the owner without a lease or permission. A copy of the "Memorandum of Mining Lease Agreement" was provided for our file. She had previously had the property leased to Four Corners Resources (c) who she reported to now be defunct. Before that it was leased to Phelps Dodge Corporation.

Date: December 27, 1988

Ken A. Phillips, Chief Engineer

GLADSTONE MINE

SANTA CRUZ COUNTY

Noble & Rucknick, John Stone, geologist, 6919 Mesa Grande, Tucson. An exploration project for client (old Gladstone Mine owner) J. W. Forsythe. 4 holes 200'-500'.

Note GWI 11/16/65

COMMODITY INFORMATION

COMMODITIES PRESENT C10 Cu, Ag, Pb, Zn
 ORE MINERALS C30 GALENA, SPHALERITE, CHALCOOPYRITE
 COMMODITY SUBTYPES C41
 GEN. ANALYTICAL DATA C43 ORE VALUES AVERAGED 8% Cu, 3.02% Ag, 0.102% Au, MINOR Pb
 COM. INFO. COMMENTS C50

* SIGNIFICANCE

PRODUCER
 MAJOR PRODUCTS MAJOR Cu, Ag, Au
 MINOR PRODUCTS MINOR Pb, Zn
 POTENTIAL PRODUCTS POTEN
 OCCURRENCES OCCUR

NON-PRODUCER

MAIN COMMODITIES PRESENT C11
 MINOR COMMODITIES PRESENT C12
 OCCURRENCES OCCUR

* PRODUCTION

PRODUCER
 PRODUCTION YES (circle) PRODUCTION SIZE SM MED LGE (circle one)

NON-PRODUCER

PRODUCTION UND NO (circle one)

* STATUS

EXPLORATION OR DEVELOPMENT

PRODUCER
 STATUS AND ACTIVITY A20 4

NON-PRODUCER
 STATUS AND ACTIVITY A20 1

DISCOVERER L20 ANTONE PROTO; GLADSTONE
 YEAR OF DISCOVERY L10 1888 NATURE OF DISCOVERY L30 B YEAR OF FIRST PRODUCTION L40 1916 YEAR OF LAST PRODUCTION L45 1951
 PRESENT/LAST OWNER A12 J.W. FORBETH (1966)
 PRESENT/LAST OPERATOR A13 HANNA MINING CO. (1966)
 EXPL./DEV. COMMENTS L110 8 UNPATENTED CLAIMS; OWNERS AND OPERATORS INCLUDED SMITH AND FULTON (1926-1930), RAYMOND AND SULLIVAN, HOLLAND AND DRISCOLL, TODD AND J.N. MOON,

DESCRIPTION OF DEPOSIT

DEPOSIT TYPE(S) C40 VEIN/SHEAR ZONE
 DEPOSIT FORM/SHAPE M10 TABULAR
 DEPTH TO TOP M30 160 UNITS M21 FT MAXIMUM LENGTH M40 5 UNITS M41 MILES
 DEPTH TO BOTTOM M30 160 UNITS M31 FT MAXIMUM WIDTH M60 3 UNITS M51 FT
 DEPOSIT SIZE M15 SMALL M15 MEDIUM M16 LARGE (circle one) MAXIMUM THICKNESS M60 UNITS M61
 STRIKE M70 N-S DIP M80
 DIRECTION OF PLUNGE M100 PLUNGE M90
 DEP. DESC. COMMENTS M110 IRREGULAR VEIN-LIKE MINERALIZATION OF CHALCOOPYRITE AND OXIDIZED COPPER MINERALS; AVERAGE VEIN WIDTH RANGES FROM 1-18 INCHES; 3 CONTINUOUS ORE

DESCRIPTION OF WORKINGS

Workings ore: SURFACE M120 UNDERGROUND M130 BOTH M140 (circle one) OVERALL LENGTH M190 UNITS M191
 DEPTH BELOW SURFACE M160 UNITS M161 OVERALL WIDTH M200 UNITS M201
 LENGTH OF WORKINGS M170 300 UNITS M171 FT OVERALL AREA M210 UNITS M211
 DESC. OF WORK. COM. M220 1 TUNNEL INTO THE MOUNTAIN, ABOUT 300 FT LONG, ONE WINZE, NEAR END OF TUNNEL, 100 FT DEEP.

GEOLOGY

* AGE OF HOST ROCK(S) K1 TERT. 58 ± 5 m.y. (SIMONS F.S. 1974)
 * HOST ROCK TYPE(S) K1A BIOTITE-HORNBLENDE GRANODIORITE
 * AGE OF IGNEOUS ROCK(S) K2 TERT. 58 ± 5 m.y. (SIMONS F.S. 1974)
 * IGNEOUS ROCK TYPE(S) K2A EQUIGRANULAR AND PORPHYRITIC GRANODIORITE, DIORITE, APLITE DIKES
 * AGE OF MINERALIZATION K3 TERT.
 * PERT. MINERALS (NOT ORE) K4 QUARTZ; IRON STAINING
 * ORE CONTROL/LOCUS K5 N-S TRENDING QUARTZ VEIN WITH SEVERAL SUBSIDIARY VEINS IN GRANODIORITE. ORE DEPOSITS OCCUR IN FORM OF SUBORDINATE VEINS, LENSES STRINGERS, AND SEAMS
 * MAJ. REG. TRENDS/STRUCT. N6 DEPOSITS OCCUR IN FORM OF SUBORDINATE VEINS, LENSES STRINGERS, AND SEAMS
 * TECTONIC SETTING N15 GUATELOTE FAULT BLOCK; NW-TRENDING, INFERRED GUATELOTE FAULT LIES TO E OF
 * SIGNIFICANT LOCAL STRUCT. N70 DIORITE FORMS FOOTWALL AND QUARTZ MONZONITE FORMS HANGING-WALL OF
 * SIGNIFICANT ALTERATION N75 STRONG POTASSIC ALTERATION; GRANODIORITE IS HIGHLY SHATTERED SHEETED
 * PROCESS OF CONC./ENRICH. N80 OXIDATION AT NEAR SURFACE; MINERALIZATION ACCOMPANIED OR FOLLOWED
 * FORMATION AGE N30
 * FORMATION NAME N30A
 * SECOND FM AGE N35
 * SECOND-FM NAME N35A
 * IGNEOUS UNIT AGE N50
 * IGNEOUS UNIT NAME N50A
 * SECOND IG. UNIT AGE N55
 * SECOND IG. UNIT NAME N55A
 * GEOLOGY COMMENTS N85 ON ARIZONA CLAIM, SPOTTY PYROMETASOMATIC BASE METAL MINERALIZATION OCCURRED ALONG CONTACT OF A NARROW, IRREGULAR BAND OF PENN.-PERM. NACO LIMESTONE AND

GENERAL COMMENTS

GENERAL COMMENTS GEN SEE ALSO: PROTO MINE GROUP

NAME:

Gladstone 9p

Independencia, Thessalia,
Eureka, Arizona,

COUNTY

Santa Cruz

[W.W. Todd]

T 255

R 16E

SEC. N cen. 31 (protracted)

DISTRICT:

Patagonia

Mineralization:

Cu, Ag, Au

cp, black Cu ox

Geology:

Type Operation: Shaft

Production: Over 2,000 tons, ave. 0.1 Au/T, 302 Ag/T, 82 Cu, minor Pb

References: ASM

Year	Tons	oz Au	oz Ag	lbs Cu	lbs Pb	lbs Zn	
1915	42	1	117	5600	—	—	Indep.
1916	215	36.5	1199	51490	13014	—	Forsy
1917	36	—	112	18541	—	—	Micha
1918	28	—	—	4980	—	—	Forsy
1919	57	86.2	126	9775	—	—	Forsy
1920	98	—	507	20960	—	—	Miller
1921	32	—	134	12876	—	—	Proth
1922	17	—	42	3350	—	—	Proth
1923	59	—	200	18182	—	—	Av. G.
1924	23	—	55	8673	—	—	Proth
1925	10	—	29	2981	—	—	Proth
1926	100	1.1	200	10806	—	—	Proth
1927	7	—	32	2943	—	—	Proth
1928	47	1.0	140	6679	—	—	Proth
1929	125	1.0	300	20000	—	—	Proth
1930	100	1.0	300	10000	—	—	Proth
1931	6	—	34	905	—	—	Proth
1932	115	2.0	402	18330	—	—	Proth
1933	115	6.0	374	16164	—	—	Proth
1934	97	4.0	380	3155	3930	—	Proth
1935	141	1.0	347	1222	—	—	Proth
1936	252	2.0	474	28154	—	—	Proth
1937	101	2.0	171	12476	—	—	Proth
1938	45	1.0	57	2721	—	—	Proth
1939	4	—	13	1830	—	—	Proth
1940	29	2.0	113	2151	39	—	Proth
1941	1918	150	5994	320,279	16983	—	Proth
1942	—	(0.0)	(3.1)	(8.3)	—	—	Proth
1943	58	—	200	18,182	—	—	Proth
1944	42	4.0	108	2350	—	—	Proth
1945	2018	154	6302	340811	16983	—	Proth
1946	—	(0.0)	(3.1)	(8.4)	—	—	Proth

X NAME: GLADSTONE MINE COUNTY: Santa Cruz
 (1926) includes Independence Thessalia - Eureka (Proto Grp) [J.W. Forsythe] [Hugo Miller]
 T 23S R 16E SEC. 30, center(?) DISTRICT: Patagonia

Mineralization: Cu, Pb, Zn, Ag, Au (Cu, Ag)
 sulfide ore w/ siliceous gangue.

Geology:

Type Operation: Shaft & adit w/ U.G. workings shaft, tunnel

Production: 215 (1916), 28 (1917), 93 (1920), 10 (1924), 1 (1926), 47 (1928), 125 (1929), 23 (1930), 6 (1936), 115 (1941)
 7 (1942), 41 (1943), 252 (1944)

References: ABM

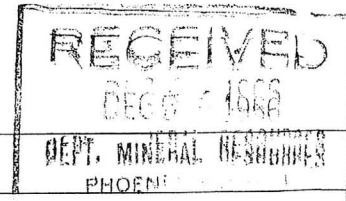
Year	Tons	oz Au	oz Ag	lbs Cu	lbs Pb	lbs Zn
1916	215	36.5	1199	51,490	13,014	+
1917	28	—	—	4,986	—	—
1920	93	—	507	20,968	—	—
1924	23	—	55	8,073	—	—
1926	10	1	29	2,981	—	—
1936	6	1	34	905	—	—

Forsythe
 H. Miller
 Thessalia
 Proto
 Gladstone
 Miller
 Gladstone

ARIZONA DEPARTMENT OF MINERAL RESOURCES

Mineral Building, Fairgrounds

Phoenix, Arizona



1. Information from: Mrs. Hugo Miller
Address: Box 257 Nogales, Arizona
2. Mine: GLADSTONE also known as 3. No. of Claims - Patented _____
Independence Unpatented 8 reported
4. Location: 15½ miles east of Nogales in Sycamore Canyon area.
prob. 31
5. Sec unsurveyed T_p 23S Range 16E 6. Mining District Palmetto ?
7. Owner: Mr. & Mrs. J. W. Forsythe, 920 Forsythe Road, Carnegie, Pa.
8. Address: _____
9. Operating Co.: Leased to Hanna Mining Co.
10. Address: 112 So. Van Buren, Tucson.
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: _____ 14. No. Employed: _____
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down ☐ (b) Assessment work ☒ (c) Exploration ☒
(d) Production ☐ (e) Rate _____ tpd.
17. New Work Planned: _____
In 1965 The Hanna Mining Co. built drill roads and ~~4 DD~~ drilled 4 DD holes.
According to Mrs. Miller they still have have the lease.
18. Misl. Notes: Mrs. Miller states that her husband mined the highest grade
copper ore of his career from this property in the late twenties.

Date: 11/30/66

G. W. Irvin
(Signature)

G. W. Irvin
(Field Engineer)

STATUS OF DORMANT MINES

MINE NAME: Gladstone Mines
 LOCATION: Patagonia Mining District, Santa Cruz County
 OWNER AND/OR LEASEE: WALTER W. TODD, Owner and Leaser
 ADDRESS: P.O. Box 1812 - Nogales, Ariz.
 APPROXIMATE PRODUCTION (Year of 1945): Copper - 2-50 ton cars - 12611 - copper
1944 - 4-50 ton cars copper ore - 24362 lbs copper
 COPPER _____ Lbs. LEAD _____ Lbs.
 ZINC _____ Lbs. (OTHER) Silver 5 to 6 oz

CHECK THE CHIEF CAUSE OF YOUR DISCONTINUED PRODUCTION:

- (A) Easily available ore worked out.
- (B) Increased costs, but have quantity similar to past grade of ore.
- (C) Too close a margin to develop more ore.
- (D) Two of us worked mine, I injured my knee so discontinued, My knee is ok now.

If you have ore ready to mine please give your estimate of the amount of metal (name each metal) that you could produce in one year (after allowing 60 days to get started) if there were premiums above present market prices. Name amount with a low premium, and amount at a high premium; such as:

Copper at 22½¢ plus 5¢ premium..... 1,000,000 Lbs.
 Copper at 22½¢ plus 10¢ premium..... 1,500,000 Lbs.

Two people could take out 4-50 ton cars same as above about 24000 lbs copper should have a 5% premium above 22½¢ and small amount of cash to start.

If you do not have ore ready to mine please discuss the following:

- (A) Do you think a reasonable development program would produce a justified tonnage of commercial ore at above mine?
In 1945- made application for Government loan. This was approved, but could not close on account of conditions that would not interfere now. If this loan was completed it would increase above estimate - Mr. Rafter, Geologist of Phoenix had charge
- (B) With a premium price (guaranteed for one year) could you carry out such a development program yourself? What premium?

Yes - would have to mine 27½¢ for copper. Price of Silver 75¢ - This is what I received in 1943 44-45

- (C) If you could not do this yourself, would a quick drilling program by some government agency (at government expense) be sufficient?

- (D) Or would you prefer a loan plan similar to the arrangements during World War II?

Yes.

How about a combination plan in two stages such as follows?

Stage 1: Government engineers review project and, if a little drilling appears to be justified and a preliminary key to the situation, such drilling program to be agreed upon by owner and government engineer, paid for by the government, but let by contract.

Stage 2: If results of drilling (or without drilling) justify underground development and/or production equipment, same to be obtainable via a mortgage loan on property.

Please discuss the above:

I can start mining
with a small advance say \$500⁰⁰ - but if
I could close the loan applied for in 1945
through the Phoenix Office it would enable
me to mine a known body of good ore.

SUGGESTIONS:

I suggest that you contact the Phoenix
Office. Believe they have all necessary
information

DATE

Aug 6 - 1950.

SIGNATURE

Walter W. Todd
P.O. Box 1812 Nogales, Ariz

77676

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
OWNERS MINE REPORT

Date July 1, 1943

Mine Gladstone Copper

District Patagonia, Santa Cruz County

Location 14 miles northeast of Nogales on
Washington Camp road.

Former name Same

Owner W. W. Todd & C. C. Hoffman

Address Hoffman, Box 1812, Nogales, Ariz.

Operator Same

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals ✓ copper

Men Employed 5

Production Rate

Mill: Type & Cap.

Power: Amt. & Type

Operations: Present We are stoping ore in two places.

Operations Planned We are planning to sink winze 50 feet and come up under another large ore body.

Number Claims, Title, etc. 5 unpatented.

Description: Topog. & Geog. Very rugged.

Mine Workings: Amt. & Condition We have a cross-cut tunnel 600 feet long, 190 feet below the surface at location monument, then we have a winze down 90 feet with a drift 100 feet long under two ore chutes.

(over)

Geology & Mineralization The country rock is monzonite and the vein structure is very good outcropping with wide quartz veins three miles long.

Ore: Positive & Probable, Ore Dumps, Tailings We have at least 50 carloads of ore on dumps that will average 3% copper and we have 3 ore bodies in sight that will run 2000 tons. These three ore bodies are continuous; two of them are 160 feet deep and 110 feet on the cross section and will average 20" thick of 12% copper. The other ore chute goes down - we do not know how far until we sink the winze down.

Mine, Mill Equipment & Flow Sheet

We have a compressor, a Studebaker power plant, jackhammer, stoper, air hoist, drill steel - everything for an operating mine.

Road Conditions, Route Good road right to the mine and a good house to live in.

Water Supply Limited; the mine makes just about enough water to work it.

Brief History This mine was located Jan. 15, 1890 and was always worked by hand until we took it over three years ago, but there have been hundreds of carloads of ore shipped.

Special Problems, Reports Filed We have sent all of our reports and maps to the R.F.C. as we have had a \$5,000 development loan O.K.'d by them.

Remarks

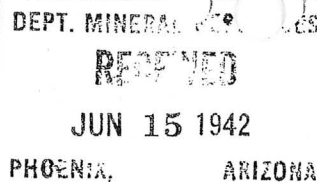
If property for sale: Price, terms and address to negotiate. The whole property is worth \$50,000 and it will take \$10,000 cash toward a 1/2 interest in property.

Signed.....Walter W. Todd, Chas. C. Hoffman.....
Box 1812, Nogales, Arizona

Use additional sheets if necessary.

SURVEY OF OPERATING MINES

By: George A. Ballam



GLADSTONE MINE

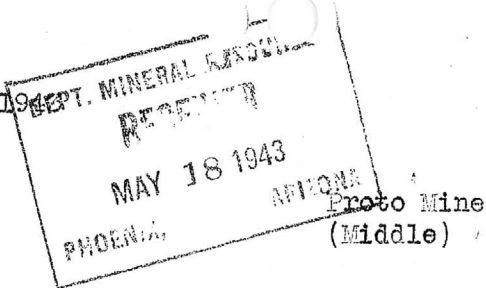
June 10, 1942

This property is situated about 15 miles NE Nogales in the Patagonia Mining District, on a southern spur of the Santa Rita Mts. The owner is Walter W. Todd. There is a tunnel 200' with a 100' winze. The owner claims he can ship 10% copper ore of which some 7 cars have already been shipped.

He desired to make application for a "B" Development loan, and the necessary information to make such application was furnished. Three men are working.

George A. Ballam

May 15, 1943



MEMORANDUM

To: Director, Dept Mineral Resources
From: George A. Ballam

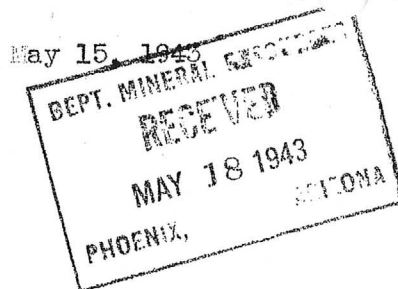
Mr. Brown and I visited this property accompanied by one Bill Smoot who has a lease on the adjoining Upper Proto.

The middle portion of the property is held under lease by Chas. C. Hoffman and one Todd of Nogales. These men have been working during the past year and have about a car of high-grade (10% and better) copper ore ready to ship. They are mining in a 100 ft. winze off the tunnel level and have drifted about 30 ft. coming up on ore. It was examined by RFC (Rasur) for a loan, but apparently not enough ore showing to warrant larger development loan. In view of the showing already made, and possibility of a couple of cars readily obtainable, it might well qualify for a small operating capital loan. Hoffman is very determined and is taking the matter up with Sen. Hayden and others. Has been promised a re-examination. If he needs assistance in making application for the ~~revised~~ amended loan will help him.

This property is owned by the Forsythe estate, and is sometimes known as the Gladstone.

George A. Ballam

MEMORANDUM



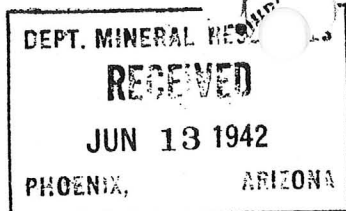
Proto Mine
(Upper)

To: Director, Dept. Mineral Resources
From: George A. Ballam

Bill Smoot of Tucson has a newly-executed lease from Will Patty, owner of the claims known as the Upper Proto. Some work was done by Lee West and Higgins during the past year. They went in from a tunnel on a parallel vein to that of the middle Proto of Todd and Hoffman. About 200 ft. from the portal a x-cut had been driven diagonally to intersect the main vein referred to. Apparently contact had been made without showing ore. I examined the Hoffman tunnel but beyond where he is working it is badly caved and blocked off, consequently it is impossible to get in to see where the x-cut intersected. That tunnel is also inaccessible. There is no record of ore having been found there. However, I advised Smoot to contact West and Higgins before submitting application for an accessibility loan, and try to learn what they found.

The property has a record of shipments of considerable high-grade ore, but has not been worked for many years and it may be that a great deal of preliminary work would be necessary to open it up again. The outcrop is definite enough along the area in question, but it appears to be one of those in and out things in the monzonite and altered granite. Rasur, I believe, said it was a condition of small lenses of ore. There are numerous tunnels, open-cuts and shafts over the entire Proto property, and it might be difficult now to find out where earlier production was had.

George A. Ballam



June 11, 1942

810

MEMORANDUM

PROTO MINE
(Patagonia District)

To: Director, Dept. Mineral Resources
From: George A. Ballam

This mine is situated on a southern spur of the Santa Rita Mts., about two miles west of the Patagonia highway, 15 miles northeast of Nogales. It is owned by Lee West, Box 1113, Nogales.

This is a copper property with a small record of 35 cars shipment. Mr. West has shipped 5 cars during the past year, and desires to open up more ore. He claims to be able to produce copper ore running about 10%.

He desires to make application for a "B" loan. Assistance in making application was rendered. At present he is employing no men.

George A. Ballam

NAME OF MINE: \ GLADSTONE

COUNTY: S. CRUZ

DISTRICT:

METALS: \ CU

OPERATOR AND ADDRESS:

MINE STATUS

DATE:

5/1/44

W.W. Todd, Box 1812, Nogales

DATE:

5/1/44

Shipping

NAME OF MINE: PROTO
OWNER:

COUNTY: Santa Cruz
DISTRICT:
METALS: Cu

OPERATOR AND ADDRESS		MINE STATUS	
Date:	W.W. Todd & H. Bostwick, Box 1812, Nogales	Date:	Shipping
6/46		6/46	

WEST, LEE (OWNER)

MINE - PROTO MINE - 2 miles west of the Patagonia highway,
15 miles northeast of Nogales.

See Gladstone (file) USGS Bull. 582, p. 316

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

~~FIELD ENGINEERS REPORT~~

NEWS ITEM

Mine Gladstone Mine

Date Jan. 9, 1952

District Patagonia Mining Dist., Santa Cruz Co.

Engineer Axel L. Johnson

Subject: News Item --- Source of Information--- J. W. Forsythe, Owner

Location 15 1/2 miles east of Nogales, on the road to Washington Camp. It is about 3 1/2 miles west of Washington Camp.

Number of Claims 8 unpatented claims.

Owners Mr. and Mrs. J. W. Forsythe, 920 Forsythe Road, Carnegie, Pa.

Operators None. Operators having assessment work done.

Metals Found Copper and Silver.

Men Employed None, except for a assessment work.

Production Rate None.

Ore Values Copper 10 % to 15 %. Silver about 2 oz.

Geology and Mineralization Found in a vein, ranging in width from 0 to 18 inches.

Old Workings One tunnel into the mountain, about 300 ft. long.

One winze, near end of tunnel---100 ft. deep. (Vein is reported to be 3 ft. wide at bottom of winze)

Past Production Considerable past production by former leasers. Mine was last worked in 1946 and 1947. Later the lease was cancelled, and the mine has remained idle.

Proposed Plans Owners would like to sell or lease the property. Sale price is placed at \$40,000. Will lease with option to buy at \$40,000, with 10% royalty, the royalty to apply on the purchase price. Owners wish to have \$500 down, or else a minimum monthly royalty, or a specified amount of work to be done per month.

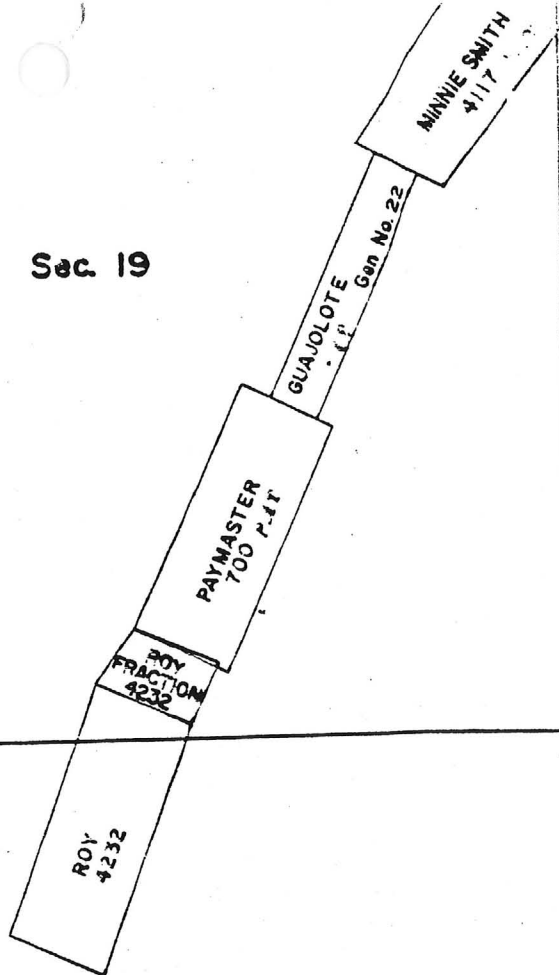
Remarks Owners, Mr. and Mrs. Forsythe, live in Carnegie, Pa. They are here for a couple of months only to see that the assessment work is done.

From

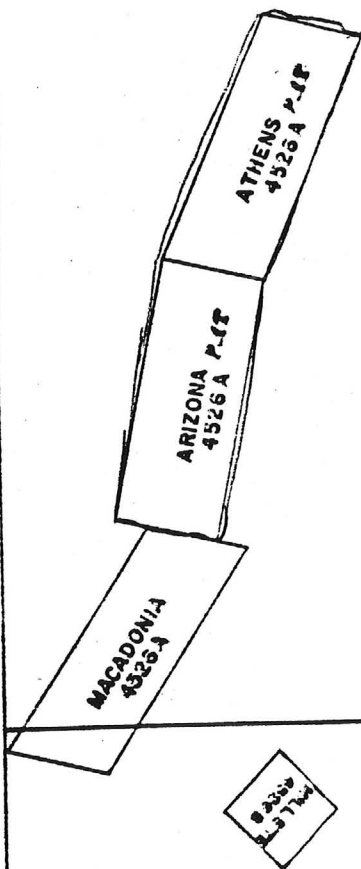
BLM Mining District
Sheet # 725

SW $\frac{1}{4}$, T.23S., R.16E

Sec. 19



Sec. 30



*GENERAL REFERENCES

REFERENCE 1 F1 <USBM-ABGMT PRODUCTION DATA, GLADSTONE-PROTO MINE GROUP>
 REFERENCE 2 F2 <ADMR FILE DATA, GLADSTONE (PROTO, INDEPENDENCE) MINE>
 REFERENCE 3 F3 <USBM-FILE DATA, CLUSTER #22, GLADSTONE MINE GROUP>
 REFERENCE 4 F4 <ABGMT CLIPPINGS FILE DATA, GLADSTONE MINE>

L110 <W.W. TODD, F.O. BOSTWICK, TODD AND BOSTWICK, HUGO MILLER, HANNA MINING CO. (1906), INDEPENDENT MINING AND MILLING CO., MICHELS, PROTO BROTHERS R.C. BLABON; PROTO AND GLADSTONE PROPERTIES WERE MERGED IN 1930, FORMING TOTAL OF 10 UNPATENTED CLAIMS>

M110 <BODIES ALSO LOCATED ON PROPERTY. 2 OF THE 3 ORE BODIES ARE 160 FT DEEP, 110 FT WIDE AND AVERAGE 20 INCHES THICK OF 12% Cu. GLADSTONE AND PROTO MINE GROUPS COVER CENTRAL 16000 FT OF 5-MILE LONG FISSURE SYSTEM, WITH KNOWN EXTENT FROM BUENA VISTA GROUP ON SOUTH TO MORNING GLORY MINE ON NORTH>

K5 <DEPOSITS FORM LENTICULAR SHOOTS WITHIN VEIN>
 N5 <IN FISSURES, JOINTS, SHEETING PLANES, AND OTHER FRACTURES IN QUARTZ MONZONITE AND DIORITE>
 N15 <DEPOSITS; DOWNTROW TO E>
 N70 <VEIN SYSTEM; MINERALIZATION OCCURRED MAINLY IN DIORITE>
 N75 <AND CRUSHED>
 N80 <INTRUSION OF PORPHYRITIC GRANODIORITE>
 N85 <TEXT. GRANODIORITE; ABOVE DESCRIBES GLADSTONE MINE>
 D10 <PRODUCTION DATA INCLUDED IN GLADSTONE-PROTO MINE GROUP>

F5 <SCHRADER, F.C., 1915, USGS BULL. 582, p. 316>
 F6 <SIMONS, FRANK S., 1974, GEOLOGIC MAP AND SECTIONS OF THE NOGALES AND LOCHIEL QUADRANGLES SANTA CRUZ COUNTY, ARIZONA; USGS MAP I-762 (1:48000)>
 F7 <KEITH, STANTON B., 1975, INDEX OF MINING PROPERTIES IN SANTA CRUZ COUNTY, ARIZONA, ARIZONA BUREAU OF MINES BULLETIN 191, p. 80>
 F8 <ABGMT FILES, STANTON B. KEITH>
 F9 <TENNEY, JAMES R., 1927-1929, HISTORY OF MINING IN ARIZONA; ARIZONA BUREAU OF MINES, p. 313>

U.S. CRIB-SITE FORM

RECORD IDENTIFICATION

RECORD NUMBER B10 <82403> RECORD TYPE B20 <X.I.M> DEPOSIT NUMBER B40 <>
 REPORT DATE G1 <8.2.03> INFORMATION SOURCE B30 <1.2> FILE LINK IDENT. B50 <USBM-0040230198>
 REPORTER(SUPERVISOR) G2 <LARABA, PETER> (last, first, middle initial) <CALDER, SUSAN> (last, first, middle initial)
 REPORTER AFFILIATION G5 <ABGMT> SITE NAME A10 <GLADSTONE MINE GROUP>
 SYNONYMS A11 <INDEPENDENCE, THESSALIA, EUREKA, ARIZONA CLAIM, RAY, GLADSTONE-PROTO GROUP, PROTO MINE>

LOCATION

MINING DISTRICT/AREA A30 <PATAGONIA DISTRICT> STATE A80 <AZ> COUNTRY A40 <U.S.>
 COUNTY A60 <SANTA CRUZ>
 PHYSIOGRAPHIC PROV A63 <1.2>
 DRAINAGE AREA A62 <1.5050301, LOWER COLORADO> LAND STATUS A64 <4.1, 1, 1, 979.1>
 QUADRANGLE NAME A90 <NOGALES, ARIZ> QUADRANGLE SCALE A100 <62500>
 SECOND QUAD NAME A92 <LOCHIEL> SECOND QUAD SCALE A91 <62500>
 ELEVATION A107 <5350 FT>

ITM
 BORTHING A120 <34.73559> ACCURACY
 ASTING A130 <52368.8> ACCURATE ☒ (circle)
 ONE NUMBER A110 <1.1.2> ESTIMATED EST <>
 GEODETIC
 LATITUDE A70 <31-23-53.N>
 LONGITUDE A80 <110-45-03.W>

ADASTRAL
 OWNERSHIP(S) A77 <0235> RANGE(S) A78 <01.6E>
 SECTION(S) A79 <30>
 SECTION FRACTION(S) A76 <C OF W 1/2>
 MERIDIAN(S) A81 <GILA AND SALT RIVER>

POSITION FROM NEAREST PROMINENT LOCALITY A82 <6 MILES EAST, NOGALES INTERNATIONAL AIRPORT>
 LOCATION COMMENTS A83 <4.0 MILES NW OF WASHINGTON CAMP; NORTH SIDE OF PROVIDENCIA CANYON, 1.0 MILE WEST OF FOUR METALS MINE; GROUP OF 3 PROSPECTS LOCATED ON USGS MAP; PROTO MINE LOCATED LESS THAN 1/4 MILE TO NE OF GLADSTONE MINE>

MEMORANDUM OF MINING LEASE AGREEMENT

Under the terms of that certain MINING LEASE AGREEMENT dated effective as of the _____ day of _____, 1988, by and between MADELINE MINCHIN, a widow designated as "OWNER" and INTERNATIONAL DORADO RESOURCES, Ltd., designated as "LESSEE"; OWNER has leased and let to LESSEE the following described real property:

The Arizona and Athens patented lode mining claims of United States Mineral Survey 4526, situated in Section 30, T. 23 S., R. 16 E., G. & S.R.M. (unsurveyed), Santa Cruz County, Arizona, all as more particularly described in the United States Patent No. 02-63-0156, a copy of which is of record in the office of the Recorder of Santa Cruz County, Arizona and the description in which Patent is by this reference incorporated herein and made a part hereof;

(which patented lode mining claims are hereinafter referred to as the "Leased Premises;") pursuant to which LESSEE shall have the exclusive right to explore, develop, remove and sell "Leased Substances" from the Leased Premises.

Unless sooner terminated the term of this Agreement shall be for a period of ten (10) years from the effective date herof, with the right to renew this Agreement for an additional period of ten (10) years.

Right of First Refusal. If, at any time during the term hereof, OWNER intends to sell, assign, transfer or convey the interest retained in the Leased Premises under this Agreement, OWNER shall deliver to LESSEE at least thirty (30) days' prior written notice, describing all of the terms of the proposed sale, assignment, transfer, or conveyance. LESSEE shall have the exclusive right during the above thirty (30) day period, at its election, to purchase the interest described in said notice, for a sum of money equal in value to the consideration which would be received by OWNER under the terms set forth in the written notice. If LESSEE elects to purchase the interest described in the notice, LESSEE shall so notify OWNER within the thirty (30) day period. OWNER shall have the right during the next succeeding thirty (30) day period to sell, assign, transfer or convey the interest as described in said notice, but all subject to this Agreement. Upon expiration of the above-described second thirty (30) day period, any subsequent sale, assignment, transfer or conveyance of any of OWNER's retained interest in the Leased Premises shall be subject to LESSEE's foregoing right of first refusal, all upon the terms and conditions set forth above.

IN WITNESS WHEREOF, this MINING LEASE AGREEMENT has been executed as of the date first above written.