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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: TOTAL WRECK MINE

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 134

LOCATION: TOWNSHIP 18 S RANGE 17 E SECTION 3 QUARTER SE  
LATITUDE: N 31DEG 53MIN 45SEC LONGITUDE: W 110DEG 35MIN 31SEC  
TOPO MAP NAME: EMPIRE MOUNTAINS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD  
SILVER  
COPPER  
MOLYBDENUM  
GOLD LODE  
MANGANESE  
VANADIUM

BIBLIOGRAPHY:

AZBM BULL. 189, P. 119, 1974  
ADMMR TOTAL WRECK MINE FILE  
AZBM BULL. 158, P. 52  
USGS BULL. 582, P. 142, 143  
AZBM BULL 180, P. 163, 236

06/23/86

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AZBM BULL 180, P. 163, 236

*2 underground maps + 1 surface  
geological map upstairs in  
rolled map files (north side)*

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

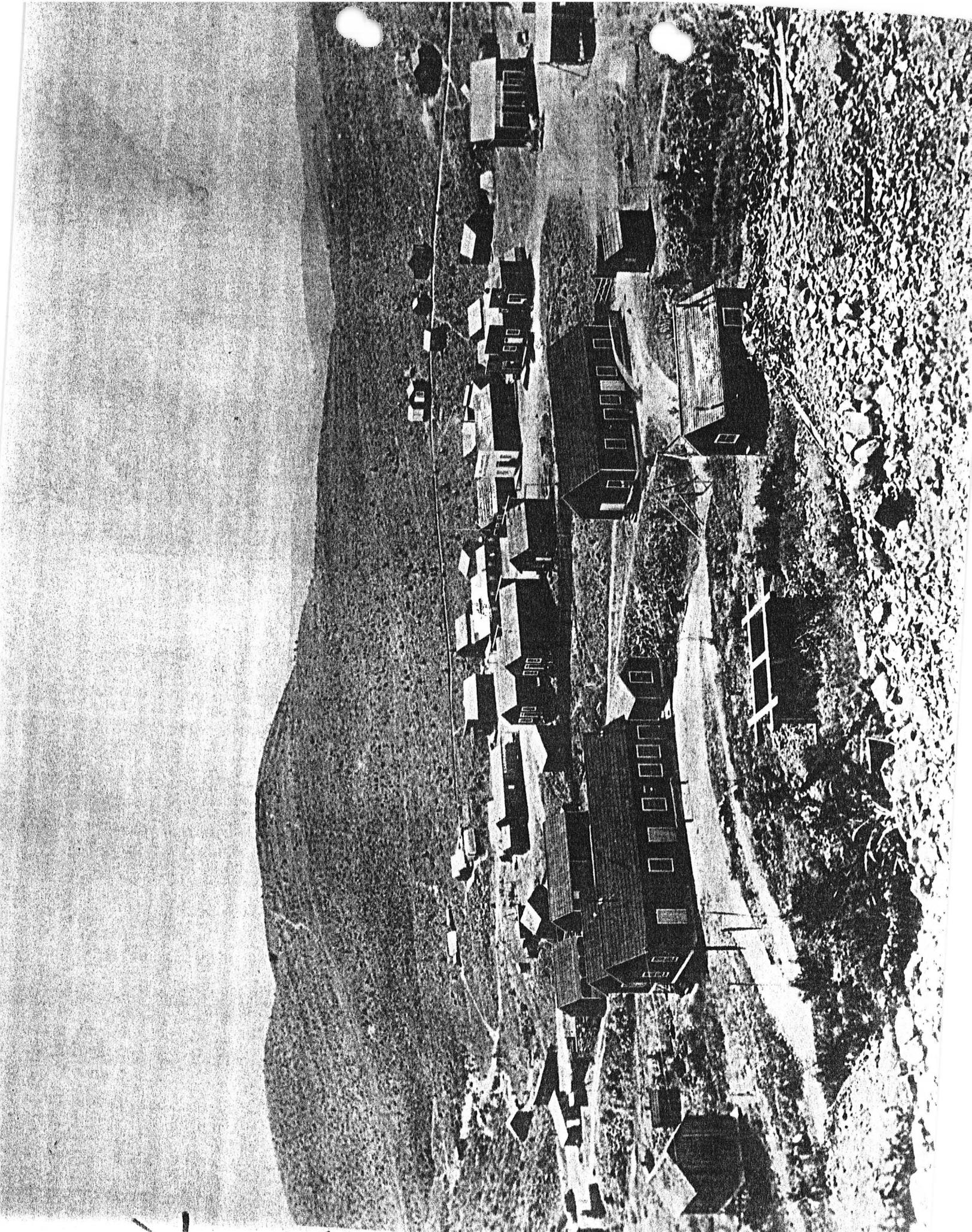
Usa Az. Pima Co.  
Total Wreck mine

MM 0 636 Wulfenite  
0 635 "

MILS # 134

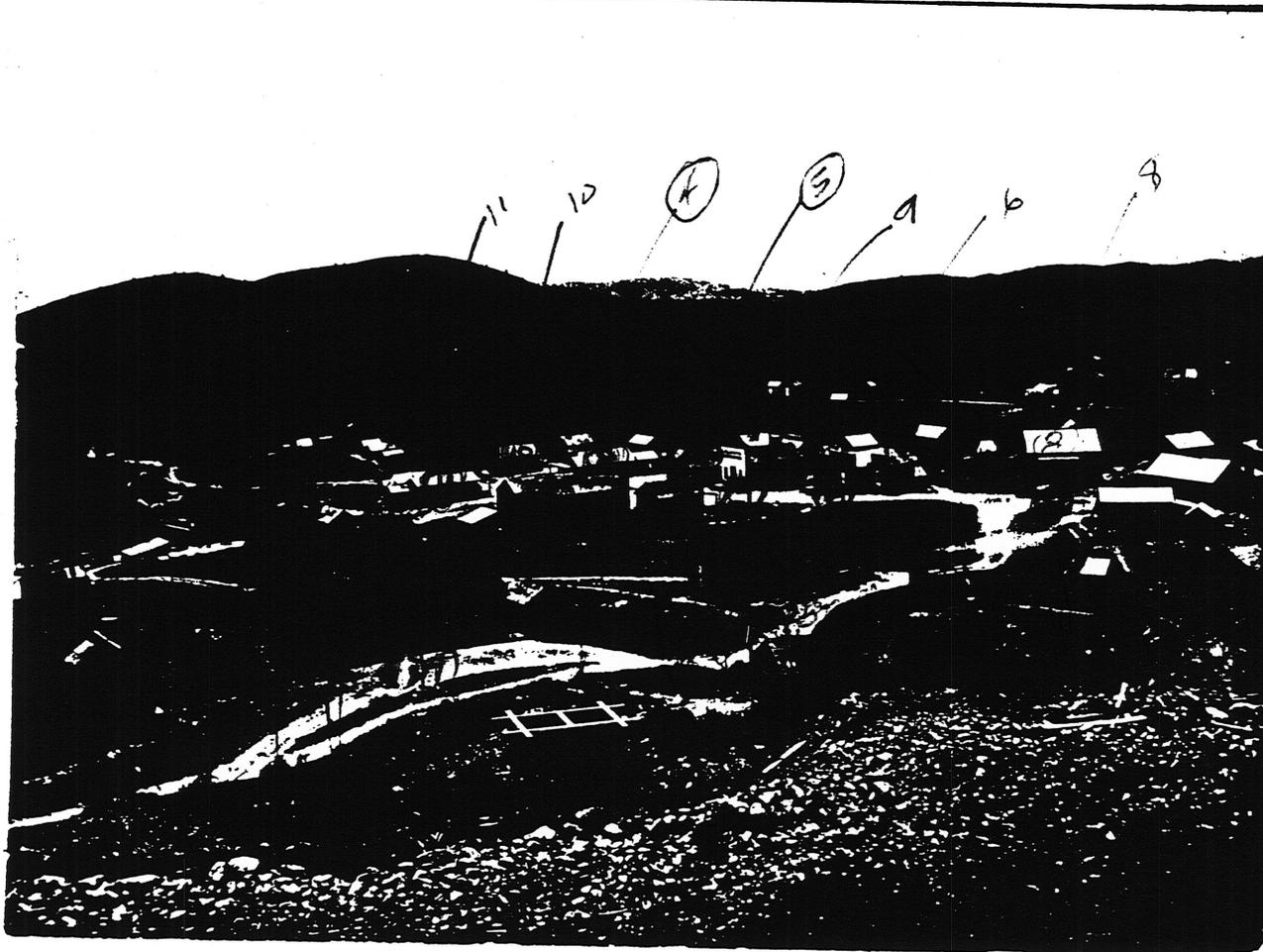
0 - ALFA 2

Total Wreck mine (2)



A-190-40

C-1889



Total Wreck Mine, Pima Co.  
ca. 1883

1. Dining room for men on le  
side of building, office  
right. Mr. N.R. Vail's  
headquarters back of offi
2. Assay Office
3. Miners Lodging House
4. Lodging House
5. Billy George Saloon
6. E.L. Vail's Butcher Shop
7. E.L. Vail's Residence
8. Bank Exchange
9. Delamanty's Billiard  
Exchange
10. Brewery
11. Groceries and Sundries

TOTAL WRECK MINE

*Situation:* The Total Wreck mine is in the northeastern part of the Empire Mountains, at an altitude of 4,600 feet. It is accessible by 9 miles of road from Pantano, a station on the Southern Pacific railroad.

*History and production:* The deposit was discovered in 1879 and actively worked during the early eighties. Empire Mining and Development Company acquired the property, built a 20-stamp mill, and operated actively during 1881-82 on ore of high silver content. The cost of mining and milling is reported to have been \$8 per ton. As reported by Hamilton, operations during five months of this time yielded \$450,000 from 7,500 tons.<sup>13</sup>

As described in the Tucson Weekly Star, the camp had three general stores, four saloons, and several Chinese laundries. The mine and mill were closed by the end of 1884 and subsequently sold for taxes to Vail and Gates<sup>1</sup>

Considerable ore was reported to have been shipped from the mine during 1907-10.

In 1917-18 wulfenite concentrates were produced at the Total Wreck. Some of these concentrates were shipped to Molybdenum Products Company, at Tucson. As described by Hess,<sup>14</sup>

During the first part of 1917 this firm treated the wulfenite in a reverberatory furnace with soda ash and made a sodium-molybdate slag and metallic lead. Later a blast furnace was put up, and the same products were made in it. For a time it was difficult to sell either the concentrates or the sodium molybdate, and ferro-molybdenum was made in small electric furnaces manufactured at the plant.

Later the sodium-molybdate slag was sold to the Atlantic Metal and Alloy Company, at Boonton, N. J., which made ferro-molybdenum from it.

The mine produced oxidized silver-lead ore intermittently from 1922 to 1928. In 1926 more than 1,000 tons of old tailings containing about 6 per cent lead, 1 per cent copper, and 7 ounces of silver per ton were shipped from the mill dump.<sup>15</sup> Similar shipments were made in 1927.

The total production from the Total Wreck mine is not known. Estimates of the value of silver and lead output range from \$500,000 to \$1,000,000.

*Geology:* The following description is abstracted from Alberding<sup>5</sup> and Schrader.<sup>1</sup>

The Total Wreck mine is within the Permian Snyder Hill formation, which consists of thin-bedded gray and black limestone and dolomite together with thin beds of quartzite. Basal Cretaceous conglomerate overlies the Snyder Hill on the southeast. Small dikes of diorite intrude these rocks.

In general the beds strike N. 60 degrees E. and dip 35 degrees SE. Immediately north of the mine is the Andrada fault, whose irregular outcrop averages northwest in strike and 85 degrees NE. in dip. As previously mentioned, it may be regarded as a tear break of large horizontal displacement. South of this fault the sedimentary succession has been sliced in a complicated

manner by low-angle faults of southeastward dip; also, according to Galbraith,<sup>16</sup> it is broken by faults which parallel the Andrada fault. Hence the rocks in the vicinity of the mine are affected by faults and fissures of east-west and northeasterly trend and somewhat folded. Vein No. 1 or North fissure and Vein No. 2 or South fissure are 90 feet apart, strike east-west, and dip 85 degrees N. Intersecting them with downthrown side on the southeast is the Main vein or fault, which strikes N. 30 degrees E., dips 85 degrees southeastward, and disappears under low-angle faults on the southwest.

*Ore deposits:* According to Schrader<sup>1</sup> the ore deposits occur within zones of the No. 1 and No. 2 fissures and Main fault and as replacements extending from them along bedding planes of the limestone. The "veins" are 6 to 8 feet wide. The replacements extend outward for a few feet to about 100 feet, both above and beneath beds of quartzite, north from the No. 1 and No. 2 veins and on both sides of the Main vein.

The deposits extend from the surface to the bottom level of the mine, and their lower limits are not known to have been reached.

Practically all of the commercial ore mined was between the surface and the 350 level.

The ore occurs within altered, more or less crushed, limestone with calcite and cellular quartz. Associated with the mineralization in places, as on the 450 level, is breccia 40 to 50 feet wide, together with some light-colored clay material.

The ore is essentially all oxidized. Its silver content was high in workings near the surface but decreased markedly with depth. Ore minerals are principally cerargyrite, cerussite, wulfenite, malachite, azurite, chrysocolla, a little chalcopyrite, and perhaps lead oxides. Associated minerals include hematite, limonite, vanadinite, jarosite, siderite, and manganese oxides. The ore was richest in silver in the upper workings, but contained less silver and more copper with greater depth.

The mine is developed to a depth of approximately 500 feet by shafts, adits, drifts, inclines, and stopes, which by 1910 aggregated about 5,000 feet of work. These workings are sketched in Schrader's report,<sup>1</sup> and a plan of them is shown in Figure 12.

No water was encountered in the mine.

HILTON AREA MINES

*Situation:* The Hilton or Lead Mountain area is 3 miles southwest of the Total Wreck mine and 2 miles east of Davidson Canyon, from which it is accessible by Hilton's ranch road.

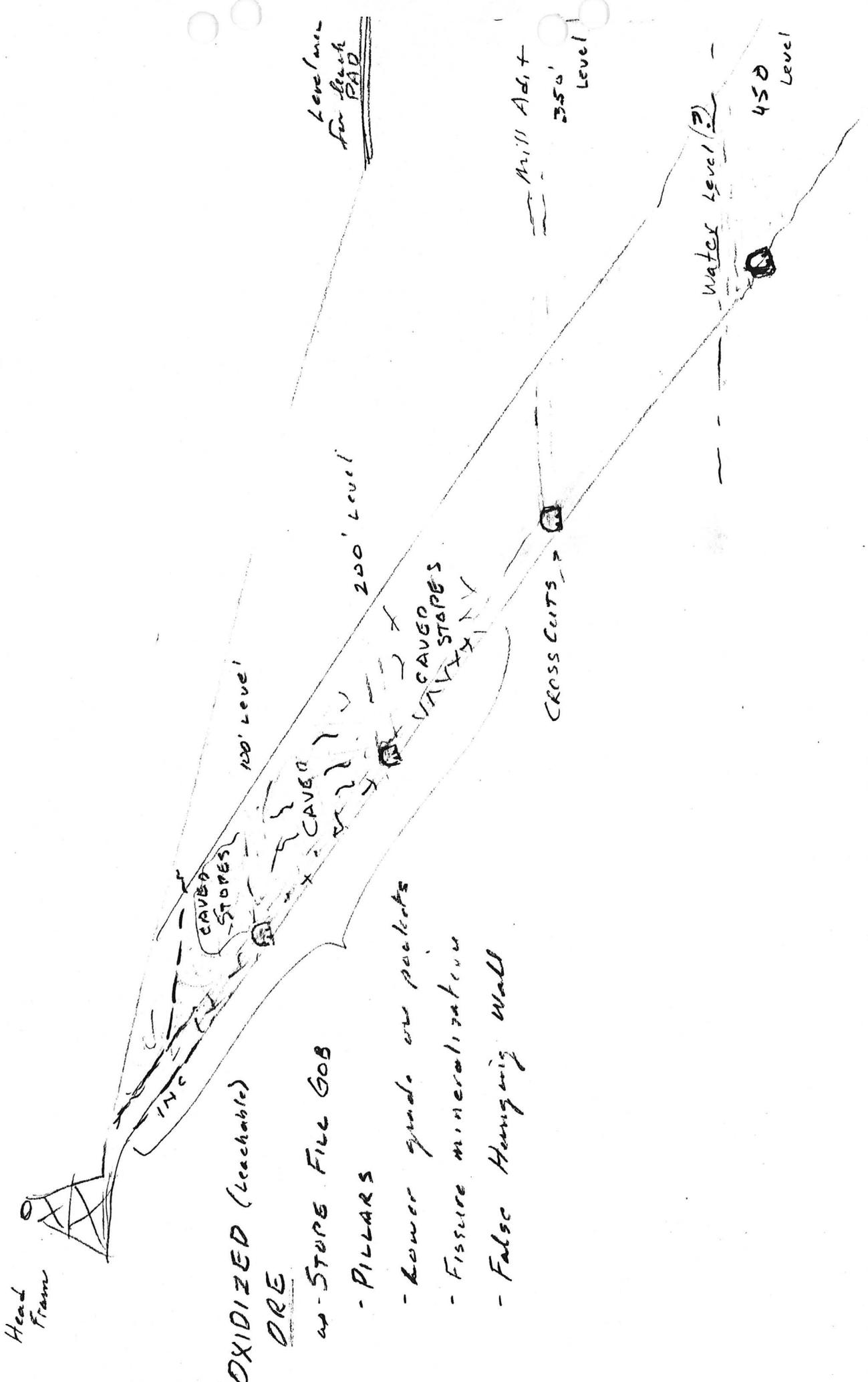
*History:* According to Alexis,<sup>7</sup> claims were located in this area during the late seventies and early eighties. At about the beginning of the present century they were worked for several years and produced ore valued at approximately \$20,000. In 1902 Verde Queen Mining Company bought the claims but shipped very little ore. Subsequently the property was acquired by M. P. Hilton.

During 1927 Calumet and Arizona Mining Company did consid-



STYLIZED  
ELEVATIONS

TOTAL WRECK



OXIDIZED (leachable)

ORE

w-STEPS FILL GOB

- PILLARS

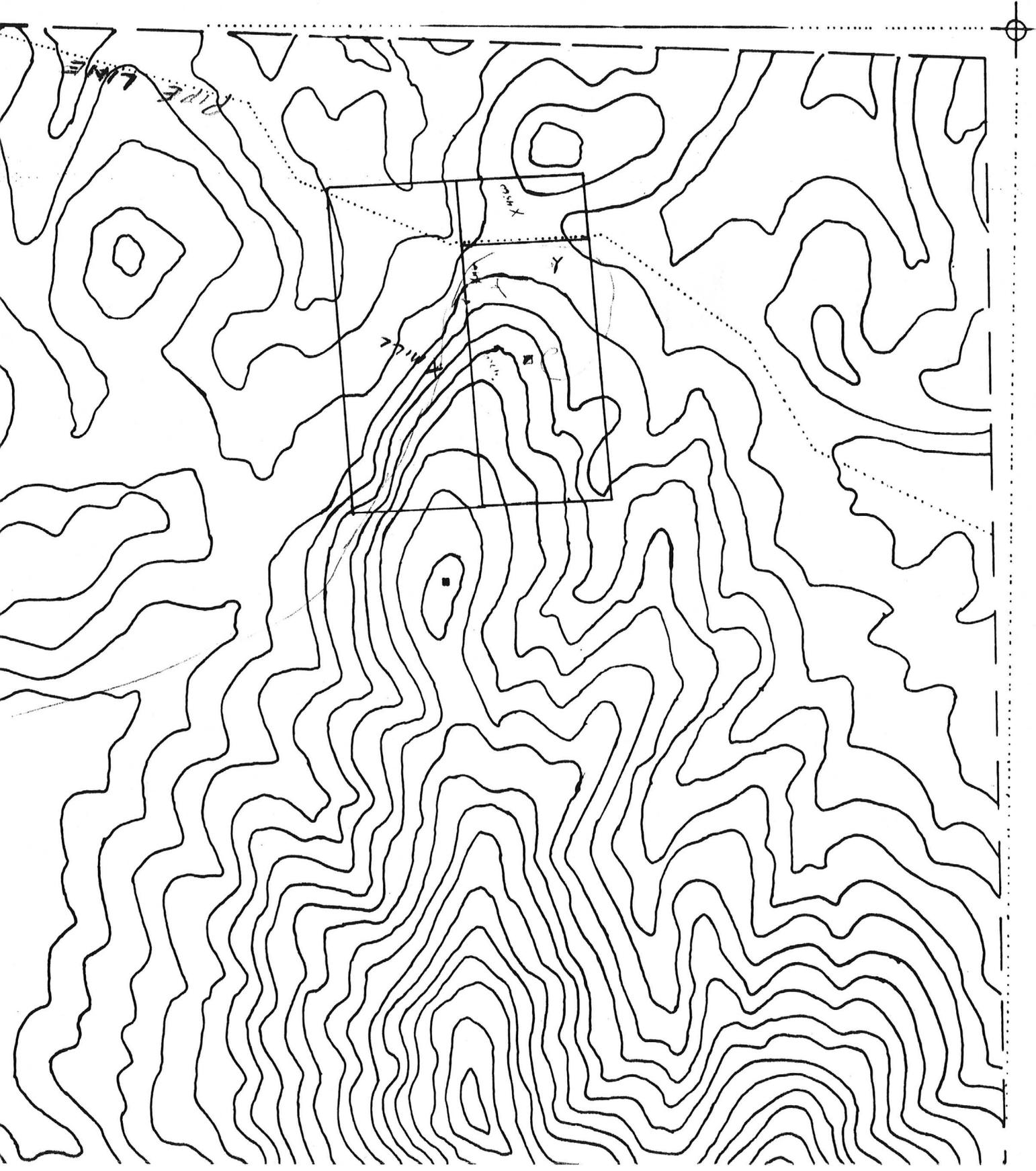
- Lower grade ore pockets

- Fissure mineralization

- False Hanging wall

0 400' Scale - 1" = 800'

20 FOOT  
CONTOUR  
INTERVAL



1958  
1971



**EXPLANATION**

**QUATERNARY**

Gal alluvium

**LOWER CRETACEOUS**

Bisbee Group  
Crossbedded arenaceous sandstone  
few thin beds dr. gray silty ls  
upper 300 feet.

Kcg  
61ance Conglomerate  
unconformity

**PERMIAN**

Psv  
Rainvalley Formation  
Medium to thin bedded limestone  
local thin beds of s.s. and S.L.S.

Pen  
Concha Limestone  
Thick bedded limestone with  
abundant chert nodules in many  
beds.

**Sherzer Formation**

Upper member - calcareous cross-  
laminated sandstone  
Middle member - thin bedded dolomite  
and dolomitic L.S.

Psu  
Lower member - Calcareous cross-  
laminated sandstone, red, fly  
siltstone at base.

Psil  
Epitaph Formation  
Upper member - medium to thick  
bedded dolomite and limestone  
locally contains chert nodules.

Contact

45 Fault showing dip

**GEOLOGY**  
**TOTAL WRECK MINE**

# EXPLANATION

## QUATERNARY

Gal  
alluvium

Kw  
LOWER CRETACEOUS  
Bisbee Group  
Crossbedded arkosic sandstone  
few thin beds dk. gray silty LS  
upper 300 feet.

Kcg  
Glance Conglomerate  
unconformity

Ppv  
PERMIAN  
Rainvalley Formation  
Medium to thin bedded Limestone  
local thin beds of s.s. and S.L.

Pcn  
Concha Limestone  
Thick bedded Limestone with  
abundant chert nodules in many  
beds.

Psu  
Sherrer Formation  
Upper member - Calcareous cross-  
laminated sandstone

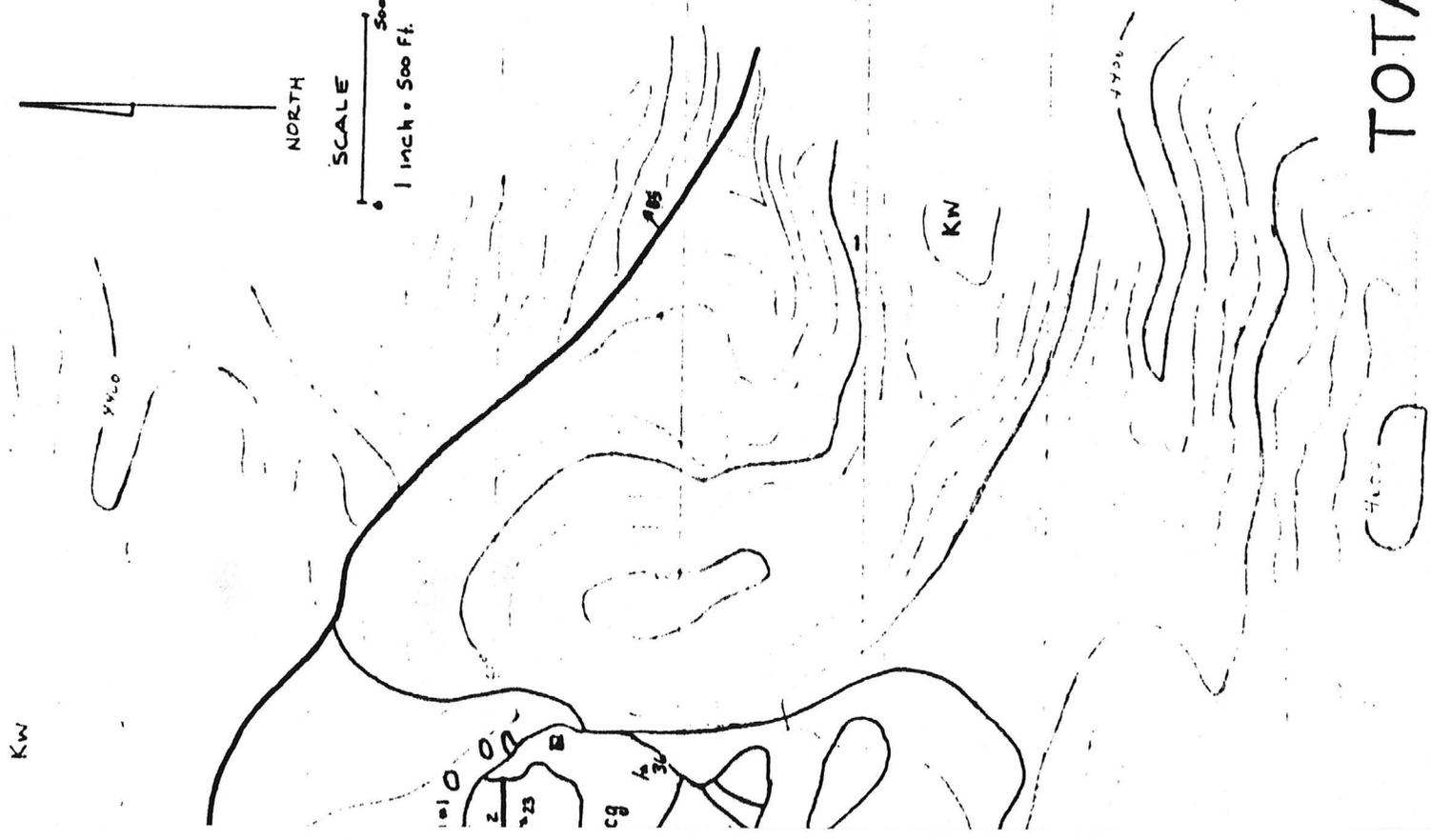
Psm  
Middle member - thin bedded dolomite  
and dolomitic L.S.

Psl  
Lower member - Calcareous cross-  
laminated sandstone, red, silty  
siltstone at base.

Peu  
Epitaph Formation  
Upper member - medium to thick  
bedded dolomite and Limestone  
locally contains chert nodules.

Contact

45  
Fault showing dip



# GEOLOGY TOTAL WRECK MINE

Phone call from Pete Sinclair, 1776, S. Palo Verde, 87713 wanted a Verity planned to stake Total Wreck and adjacent ground. Told him the Total Wreck was patented Survey No. 235 and that the adjacent ground belonged to the State, Sec. 2, 10 & 34 T17S, R17E. The Total Wreck mine is Sec. 3, T18S, R17E, this is a BLM section and the mine belongs to the Vail estate. GWI WR 4-29-74

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Ray Roripaugh said that he hopes to do some exploratory work at the Total Wreck mine in the Empire Mountains of Pima County. The present owner is Sandy Wilkinson, Pauba Ranch, Temecula, California, 92390. VBD WR 1/20/76

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CJH WR 3/8/85: Dave Rabb (c) reported that James Vail Wilkinson, Pacific Palisades, California wants to donate the Total Wreck mine (1 patented claim) and perhaps some unpatented claims in E $\frac{1}{2}$ , T18S R17E, Empire district, Pima County, to the U. of A.

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MG WR 3/8/85: The Total Wreck patented claim (Pima County) is in Sec 3 T18S R17E. It is owned by Mr. James Vail "Sandy" Wilkenson, P O Box 37, Temecula, California 92390. Reportedly Day Mines Co (Idaho?) spent about \$100,000 trying to develop the property in 1983-84 but there is no indication of this work at the mine site.

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MG WR 6/27/86: Visited the Total Wreck mine (Pima Co) with Mr. Dave Rabb (c) and Mr. Robert Newlon, property planner for the University of Arizona (ph: 621-3057). The Total Wreck patented claim was recently donated to the University. Mr. Newlon is encouraging the University to sell its patented mining property. We located two well-marked corners of the property.

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CJH WR 12/19/86: Phone call: Made call to Dick Coppock, 1858 E. 1st St., Tempe, Az 85281, 968-6780. Answered questions relating to the Total Wreck mine, Empire District, Pima Co, which is being actioned off Jan. 14, 1987.

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NJN WR 3/20/87: Dave Rabb (c) reports that the Total Wreck (file) Pima County sold for \$20,388 to University of Arizona employee, G. Bonner Denton.

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TOTAL WRECK MINE

PIMA COUNTY

Office call from Mr. Dewey Wilkins, - has worked out a deal with Mr. J. Vail Wilkinson owner of the Total Wreck Mine, and expects to start working soon.

GWI WR 6/1/68

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Dewey Wilkins expects to have 4 men working at Total Wreck soon.

GWI WR 8/31/68

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Properties believed to be owned by U of A - Source unknown

NAME: PROPERTY	DISTRICT	COUNTY	LOCATION TWP-RGE-SECT	SIZE: ACRES	Total Limit * Assessed \$	MINERAL SURVEY NUMBER	Patented Claims	NOTES	
U/A EXPERIMENTAL MINE, SAN XAVIER No 6	1. DEMOCRAT 2. MARJORIE	PIMA	PIMA	17 <sub>s</sub> 12 <sub>E</sub> 3 <sub>10</sub>	20.661 16.560	\$ 16,528 13,248	1758? 1759	11-4-76 5398-D134 TOWNE-ANANIAS 5398-D134	MAPS: 26 E SUCRA
OLD AMADO OR MONTOSA MINE 1 MINE N of GLOVE	1. Black Diamond 2. Isabella	TYNDALL	SANTA CRUZ	20 <sub>s</sub> 14 <sub>E</sub> 29 <sub>1/2</sub>	20.661 20.661	\$ 7500	U/A Part of 2 Cls 2966 - 1/2 UA, 1/2 MACKENZIE 2967 - 3/4 UA, 1/4 MACKENZIE, 1/4 LENNON	DOUGL 468 R109 Patented 1880	3000 ton dump No Monuments
	SUNSET	TOMBSTONE	COCHISE	20 <sub>s</sub> 22 <sub>E</sub> 14 <sub>SW</sub> 1/2 1/2	12.27	\$ 19,620	DOUGL 468 R109 LST 50	Patented 1880	3000 ton dump No Monuments
	ALBATROSS	ARIZONA	PIMA	21 <sub>s</sub> 9 <sub>E</sub> 12 <sub>NE</sub> 1/2 1/2	16.87A	\$ 12,653	355		TUNNEL-SHAFT
	TOTAL WRECK*	EMPIRE	PIMA	18 <sub>s</sub> 17 <sub>E</sub> 3 <sub>E</sub> 1/2	17.153	\$ 6,800 Actual 12,800	235	DOUGL J. VAIL WILKINSON	MAPS: 10 E SUCRA
ALLISON MINE (SABOQUIVARI)	1. SENATOR No 1 2. SUNBEAM No 1	FRESNAL	PIMA	18 <sub>s</sub> 7 <sub>E</sub> 28 <sub>29</sub> 30	20.621 20.522	\$ 16,496 \$ 16,416	4063	DOUGL J. VAIL WILKINSON on INDIAN RESERVATION contiguous claims	MAPS: 10 E SUCRA
MINNIE MINE No 1	MINNIE MINE	CABABI	PIMA	15 <sub>s</sub> 5 <sub>E</sub> 12	20.661	\$ 6,818	4066	COMOBABI Mts	20.55 Panel No
MILL SITE	SANTO TOMAS*	CABABI	PIMA	15 <sub>s</sub> 4 <sub>E</sub> 36	5.0 Ac	\$ 1650	Panel 20163	Near Graveyard Near Lincoln and KO VELA	
LA NUEVA BONITA VISIG PLACERS	EDNA J.	SABOQUIVARI	PIMA	19 <sub>s</sub> 8 <sub>E</sub> 31-32 20 <sub>s</sub> 8 <sub>E</sub> 6-7	LEASE 680 STATE LAND	Not on Tax Rolls (NA)	UN- PAT'D PLACER	W. of HUN 2 ECL ON INDIAN LAND Believed to have been WITHDRAWN REVERTED FOR LACK OF ACTIVITY an incomm. grants or railroad of grants	
GREAT AMERICAN SULPHURETTE ALICE HORN SILVER	GREAT AMERICAN GROUP	SWISSHELM	COCHISE	20 <sub>s</sub> 27 <sub>E</sub> 1 <sub>E</sub> 1/2 20 <sub>s</sub> 28 <sub>E</sub> 6 <sub>NE</sub> 1/2	76.05 Ac	\$ 25,398 \$ 11,823	830 1262 Mts	LESSEE: John FAICK * 200/mth To June 1992 4 open shafts and 4 Stopes	
MOUNTAIN QUEEN WHALE MAMMOTH KA: ELFRIDA GROUP	MOUNTAIN QUEEN GROUP	SWISSHELM	COCHISE	20 <sub>s</sub> 27 <sub>E</sub> 12	19.66 19.00 19.00	\$ 26,232 Total	272 Mq 273 W 274 M	ALHAMBRA MINES INC. GENERAL MINERALS OF AMERICA Rummed Mine Attention Sparks, Nev	
1-10 NUEZ No 2 - No 11 11-17 KAOLIN No 1 - No 7 18 OVERSITE 19-20 OVERSITE No 1 & 2 20 unpat'd PLACER CLAIMS	MAMMOTH	MAMMOTH	PINAL	9 <sub>S</sub> 17 <sub>E</sub> 13, 24 9 <sub>S</sub> 18 <sub>E</sub> 17, 18 15, 20 29, 30	20- 16.0 Ac 32.00 Ac Total	Not on Tax Rolls (NA) OK \$ 125/Ac Est'd (Non Metal)	2 Deach UN- PAT'D PLACER	LESSEE: GILBERT S MOTT GRAHAM MOTT NEED ASSESSMENT INK. EACH YEAR Diatomaceous Earth	100% LEASE MINUTE UNIT INDUSTRIALS INC SCOTT
CHRISTMAS FORGET IT DEMOCRAT OCEANIC WEDGE OCEANIC CEIL VICTORIA 1 VICTORIA 2 CROWN POINT WHITE HILL	OCEANIC aka OCEANIC aka SAN LUIS	OCEANIC (Los Guijas)	PIMA	21 <sub>s</sub> 9 <sub>E</sub> 27, 34	15-claims 309.9 Ac	\$ 231,726 Total \$ 154,582	15 pat'd Claims 3685 OCEANIC GROUP MS 4159 "OVERSIGHT"	BEV (Senator) * Full Value, Mine Improvements Sold: Senator Yavapai Oct 83 Tombstone, AZ	

\* Up for Sale

TOTAL WRECK PROSPECT

The prospect area consists of the Total Wreck patented mining claim and eleven surrounding unpatented lodes. The claims are located at about 4000 foot elevation in the Empire Mountains, principally in Section 3, T18S-R17E. The land surface is patented. The critical east half of Section 3 is held by the State of Arizona.

Access to the Total Wreck from Tucson is by I-10, then south along the Sonoita Highway (State Highway 83) and finally over a connecting dirt road, a total distance of twenty nine road miles. Conoco Minerals explored west of the Total Wreck within the last two or three years.

History

The Total Wreck deposit was discovered in 1879 and first worked for its rich near surface silver ores in 1881. One five months run is said to have produced 7500 tons of ore yielding over \$450,000. There was only minor lessee production after 1882. All ores were oxidized. The principal ore minerals were: Cerargyrite, cerussite, wulfenite, malachite, azurite, chrysocolla, chalcopryrite and lead oxides. There are an estimated plus 4000 feet of underground workings. The mine is accessible, dry and safe for inspection. Mineral production was carried to about 500 feet from surface on the incline.

Geology

Ores mined to date at the Total Wreck were recovered from replacement deposits and fissure veins in the Rainvalley Formation (Permian). Finnell's open file USGS map of the area shows a complete stratigraphic sequence in the Total Wreck area, with the Rainvalley being partially covered by the Cretaceous Glance conglomerate. Minor faulting was noted in the Total Wreck

workings but Finnell shows no major offsets that would affect down dip or down section prospecting.

The Pennsylvanian and Permian sediments of the Total Wreck area strike about N60E and dip rather regularly to the SE at 30-35°.

The Total Wreck workings have prospected the Rainvalley for about 500 feet down dip. There appears to be no pinch out of structure or ore. Production from the Vail Adit has been from a steep N80W striking fissure vein which appears to project into the Total Wreck workings area. XX

The extent of the Total Wreck workings, including stoping, can be seen on Schrader's Figures 15 and 16. Ore bed thicknesses are generally 4-6 feet though some replacements certainly exceed 15 feet in thickness. Local bedding plane faults may account for some apparent repetition of replacement mineralization. X

Our position within the Rainvalley Formation has not been accurately determined.

### Exploration Potential

The potential at Total Wreck obvious to PXC at this time includes: 1) down dip continuations of existing ore shoots within the Rainvalley, with some chance for improvement of orebody size and 2) the location of large replacement bodies in the several stratigraphic horizons underlying the Rainvalley. 1,2 There is no evidence of any past exploration for either of these objectives.

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1. At Twin Buttes production has come from the upper Scherrer and Epitaph Formations and the Colina limestone which directly underly the Concha limestone. The Concha is below the productive Rainvalley.

2. Accurate depths to the underlying possibly favorable host rocks is not currently known but the depth to the favorable Concha-Scherrer contact probably does not exceed 1000 feet.

## GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No. 6  
Elevation 4517  
Dip -90

Depth 550 ft.  
Date Drilled 4/26 to 28, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 175	Cretaceous Willow Canyon formation
0 - 7	Overburden
7 - 40	Tan to pink and maroon sandstone, siltstone and mudstone
40 - 54	Pinkish tan, pale green and little pink siltstone and mudstone
54 - 92	Maroon mudstone and pinkish-maroon siltstone and sandstone with little tan, pale green and green mudstone
92 - 125	Pale green and gray-green siltstone and mudstone. Little yellowish-tan mudstone
125 - 145	Pale green and grayish-tan siltstone and mudstone
145 - 160	Pale green, tan, and grayish maroon siltstone and mudstone
160 - 170	Pink to rose-colored, pale green and a little brick red sandstone and siltstone
170 - 175	Maroon to pink siltstone and mudstone. Little ochre-colored sandstone
175 - 191	Cretaceous Glance formation - conglomerate
175 - 180	65% pink to rose-colored sandstone and siltstone, as matrix, 35% dark gray to black carbonate and chert as pebbles and cobbles
180 - 185	60% sandstone/siltstone, 40% carbonate, as in 175 - 180
185 - 191	50% sandstone/siltstone, 50% carbonate
191 - 550	Permian Rainvalley formation
191 - 195	Gray to pink quartzite and sandstone with 10% black carbonate and chert
195 - 200	10 - 20% pink, gray and tan quartzite, 80 - 90% dark gray to black and reddish-brown carbonate

- 200 - 205 20 - 25% gray, pink and tan quartzite, 75 - 80% carbonate, as in 195 - 200
- 205 - 210 Dark gray to black and dark reddish-brown carbonate. Little quartz and calcite
- 210 - 215 Dark gray to black carbonate
- 215 - 220 Dark gray to black and dark reddish-brown carbonate. Little Fe staining
- 220 - 225 Dark gray to black and dark reddish-brown carbonate
- 225 - 230 Dark gray to black and reddish-brown carbonate. Little reddish calcite
- 230 - 235 Dark gray to black carbonate. 10 - 15% dark gray to reddish chert
- 235 - 240 Dark gray to black and reddish carbonate. Little dark gray chert
- 240 - 245 Dark gray to black carbonate
- 245 - 250 Dark gray to black carbonate. Little Fe-staining. Little gray chert
- 250 - 255 Dark gray to black carbonate.
- 255 - 260 60% dark gray to black carbonate. 40% highly Fe-stained sandstone or breccia. Little gray chert (sampled)
- 260 - 265 75% carbonate, 25% Fe-stained sandstone, as in 255 - 260. Little pink chert (sampled)
- 265 - 270 Dark gray to black carbonate. 20% gray to pinkish and orangish chert
- 270 - 275 Gray to dark gray carbonate. Little gray to dark gray chert
- 275 - 280 Dark gray to black carbonate
- 280 - 285 Dark gray to black carbonate. Little grayish-tan chert
- 285 - 290 Dark gray to black carbonate. Little dark reddish-brown carbonate
- 290 - 295 Black with little dark gray and dark reddish-brown carbonate. Little quartz and calcite
- 295 - 300 Dark gray to black and little dark reddish-brown carbonate.

- 300 - 305 Dark gray to black carbonate. Little quartz and calcite
- 305 - 310 Dark gray to black carbonate. 10 - 15% gray to dark gray chert
- 310 - 315 Dark gray to black carbonate. 30% gray to dark gray and little tan chert
- 315 - 325 Dark gray to black carbonate.
- 325 - 330 Dark gray to black carbonate. 15 - 20% gray to dark gray and little orangish chert
- 330 - 335 Dark gray to black with a little brown carbonate. 10% gray to dark gray chert. 5% quartz sandstone or quartzite with limey matrix
- 335 - 340 Dark gray with little black carbonate. 20% gray to dark gray chert
- 340 - 345 Dark gray to black carbonate. 15% gray chert
- 345 - 350 Dark gray to black carbonate
- 350 - 355 Dark gray to black carbonate. Little chert and Fe-staining
- 355 - 360 Dark gray to black carbonate. 15 - 20% light gray to gray and orangish chert
- 360 - 365 Dark gray to black carbonate. Much yellow, orange and reddish Fe-staining. Moderate amount quartz and calcite. Little gray to dark gray chert. (sampled)
- 365 - 370 Dark gray to black carbonate. Little Fe-staining. 20% gray to orangish chert
- 370 - 375 Dark gray and little black carbonate. 20% light gray to gray, pinkish and orangish chert
- 375 - 380 Dark gray and little gray carbonate. 5 - 10% gray chert
- 380 - 385 Dark gray to black carbonate. Little Fe-stained - orangish to reddish. 10 - 15% gray to orangish chert
- 385 - 390 Dark gray carbonate with few red carbonate fracture fillings. 10% gray to dark gray and little orangish chert
- 390 - 395 Dark gray with little gray and black carbonate. Few red fracture fillings. Traces chert
- 395 - 400 Dark gray carbonate. 10 - 15% light gray to gray and orangish chert

- 400 - 405 Dark gray and gray carbonate
- 405 - 410 Dark gray to gray and little black carbonate. Little light gray to gray chert
- 415 - 415 Dark gray carbonate. Little Fe staining. 40% light gray to gray, pinkish to orangish chert
- 415 - 420 Dark gray and little black carbonate. 30% light to dark gray chert
- 420 - 425 Pinkish-red, pinkish-brown and dark gray carbonate. 10% light gray to gray chert
- 425 - 430 Dark gray, gray and little dark reddish to brownish carbonate. Little gray chert
- 430 - 435 Dark gray and some reddish-brown carbonate. 10 - 20% gray to pinkish chert
- 435 - 440 Dark gray and reddish-brown carbonate. 30% pink to gray chert
- 440 - 445 Dark gray to gray, reddish brown and reddish carbonate. 25% pink to gray chert
- 445 - 450 Gray to dark gray and reddish-brown carbonate. 5% gray pink chert
- 450 - 455 Gray to dark gray and reddish-brown carbonate. 25% gray to dark gray and little tan chert
- 455 - 460 Gray to dark gray and reddish to brownish carbonate
- 460 - 465 Gray to dark gray carbonate. 25% pink to gray chert
- 465 - 470 Dark gray to reddish-brown and reddish carbonate. 20% dark gray, pink, tan and reddish chert
- 470 - 475 Dark gray to brown, reddish-brown and reddish carbonate 5 - 10% gray, tan, and pink chert
- 475 - 480 Carbonate, with 40% chert, as described in 470 - 475 5 - 10% white to tan quartz. Little oxidized pyrite as tiny cubes. Little Fe-staining
- 480 - 485 Reddish-brown and reddish to dark gray carbonate. Little Fe staining. Little tan to pink chert
- 485 - 490 Dark gray to black, red and brown carbonate. Little pinkish chert
- 490 - 495 Carbonate, as in 485 - 490, 5 - 10% pink, tan and a little gray chert

495 - 500 Dark gray to black and reddish-brown carbonate. Little tan chert

500 - 505 Dark gray to black carbonate. 5% gray and white chert

505 - 510 Dark gray carbonate. 5 - 10% gray and a little white chert

510 - 540 Dark gray and black carbonate

525 - 530 Trace calcite

535 - 540 Little reddish-brown carbonate and pink chert

540 - 545 Dark gray to black and reddish-brown carbonate

545 - 550 Black and reddish-brown to dark reddish-brown carbonate

End

Assays

Depth	oz. Au/ton	oz. Ag/ton	% Pb	% Zn
255 - 260	Tr.	Tr.	0.04	.02
260 - 265	Tr.	Tr.	0.01	.02
360 - 365	Tr.	0.01	0.11	.02

Logged By: JLB

Date Logged: 4/26 to 4/29, 1981

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole 5  
Elevation 4559  
Dip -90

Depth 404 ft.  
Date Drilled 4/18 to 23, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 2	Overburden. Soil and gravel
2 - 50	Cretaceous Willow Canyon formation
2 - 5	Gray-green to tan siltstone
5 - 10	60% maroon mudstone. 40% siltstone, as above
10 - 15	40% maroon mudstone, 60% gray-green siltstone and mudstone
15 - 35	80% pink to maroon siltstone and mudstone, 20% gray-green siltstone
35 - 40	80% gray to tan sandstone and siltstone. 20% pink to maroon mudstone
40 - 50	Tan to gray-green, pink sandstone, siltstone, mudstone
50 - 80	Cretaceous Glance formation (conglomerate)
50 - 55	90% tan to pink sandstone and siltstone (matrix) with 10% dark gray carbonate (pebbles and cobbles)
55 - 60	50% sandstone/siltstone, 50% carbonate, as in 50 - 55
60 - 65	20% sandstone/siltstone, 40% carbonate, 40% white quartz
65 - 70	All dark gray to black carbonate
70 - 75	50% pink to maroon and little gray sandstone and siltstone, 50% dark gray to black carbonate
75 - 80	40% sandstone/siltstone, 60% carbonate, as in 70 - 75
80 - 404	Permian Rainvalley formation
80 - 85	All pink to grayish-pink sandstone and quartzite
85 - 90	50% sandstone, 50% carbonate, dark gray to black
90 - 95	60% sandstone, 40% carbonate, dark gray to black
95 - 100	30% sandstone, 50% carbonate, dark gray to black, 20% yellowish

- 100 - 105 Brownish to reddish-brown and dark gray carbonate.  
Few fragments red sandstone
- 105 - 110 Carbonate as in 100 - 105, with 5 - 10% grayish to pink  
sandstone/quartzite
- 110 - 115 All gray to pink sandstone/quartzite
- 115 - 120 As in 110 - 115. Few fragments dark gray carbonate
- 120 - 125 Dark gray to black carbonate
- 125 - 135 Same as 120 - 125. Like white calcite
- 135 - 140 Dark gray to brownish carbonate
- 140 - 145 Dark gray to dark reddish-brown carbonate
- 145 - 150 Dark gray to black carbonate. 30% brown chert
- 150 - 155 Dark gray to black carbonate, 30% gray to pink and brown  
chert
- 155 - 160 Dark gray to black carbonate. 15% pink chert
- 160 - 165 Dark gray carbonate. 30% brownish-pink chert
- 165 - 170 Dark gray to black and little reddish-brown carbonate
- 170 - 175 As in 165 - 170, but with 40% tan to pink and orange-red  
chert
- 175 - 180 Dark gray and some brownish carbonate. Little orange  
carbonate as fracture filling. Little pink chert
- 180 - 185 Dark gray and little brownish carbonate. 30% brownish-pink  
to pink and reddish orange chert
- 185 - 190 Dark gray to black and brownish to reddish-brown  
carbonate. Little dark gray chert
- 190 - 195 Dark gray to black carbonate
- 195 - 200 Dark gray to black carbonate. Little dark gray chert
- 200 - 205 Dark gray to black carbonate. Traces of quartz
- 205 - 210 Dark gray to black and reddish brown carbonate. Little  
orange discoloration. Est. 5% quartz
- 210 - 220 As in 205 - 210. Tr. orange discoloration and quartz
- 220 - 225 Dark gray to black carbonate. 5 - 10% gray chert
- 225 - 230 Dark gray to black and little reddish-brown carbonate.  
Little gray and brown chert

- 225 - 230 Dark gray to black and little reddish-brown carbonate. Little gray and brown chert
- 230 - 235 Dark gray to black carbonate. Traces gray chert
- 235 - 240 Dark gray to black carbonate. 5% gray to orange-brown chert. Traces quartz
- 240 - 245 Dark gray to black carbonate. 30% gray to pinkish to orange-brown chert
- 245 - 250 Dark gray carbonate. 30% pinkish-gray to pinkish-brown chert
- 250 - 260 Dark gray carbonate. 5% gray chert
- 260 - 265 Dark gray carbonate. 15 - 20% gray to dark gray chert
- 265 - 270 Dark gray to black carbonate. Little reddish discoloration. 5 - 10% gray to dark gray chert
- 270 - 275 Dark gray to black carbonate. 10% gray to dark gray chert. 10% brick-red mud "chips"
- 275 - 280 Dark gray to black carbonate and 10% gray to dark gray chert, all with much orange-red discoloration and and fracture fillings
- 280 - 285 Dark gray and little black carbonate. 30 - 40% gray chert. Moderate orange discoloration, as in 275 - 280
- 285 - 290 Dark gray to brownish carbonate with 25% gray to pinkish chert
- 290 - 295 Dark gray carbonate. 5% gray chert. Little orange to red discoloration on fracture surfaces
- 295 - 300 Dark gray to black and dark red carbonate, also dark red discoloration and fracture fillings. 15% gray to pink and red chert
- 300 - 305 Dark gray to black carbonate. Little red discoloration on fracture surfaces. 5% gray to pinkish chert
- 305 - 310 Gray to dark gray carbonate. 10% light gray to gray chert
- 310 - 315 Dark gray carbonate. Traces gray chert
- 315 - 320 Dark gray carbonate. 5 - 10% tan to pink chert
- 320 - 325 Dark gray carbonate. 5 - 10% light gray to gray chert
- 325 - 330 Gray to dark gray and little black carbonate. Little reddish stain on fracture surfaces. 25 - 30% orangish to gray chert

- 330 - 335 Dark gray carbonate. 30% pinkish to gray chert
- 335 - 340 Dark gray to reddish-brown and pinkish-red carbonate. 5 - 10% pink to gray chert
- 340 - 345 Dark gray carbonate. Little reddish staining
- 345 - 350 Dark gray and little gray carbonate. Little yellow to reddish discoloration. Traces gray chert
- 350 - 355 40% dark gray to dark reddish-brown carbonate. 60% gray to pink and reddish-orange chert
- 355 - 360 Dark gray to dark reddish-brown carbonate with 10 - 15% light gray to gray, white and pink chert
- 360 - 365 Dark gray carbonate with 25% dark gray to pink chert
- 365 - 370 Dark gray to reddish-brown carbonate with 15 - 20% dark gray to pink and orange-red chert
- 370 - 375 Dark gray to black carbonate with little white quartz
- 375 - 380 Dark gray and little reddish-brown carbonate
- 380 - 385 Dark gray to reddish and reddish-brown with a little gray carbonate. 40 - 50% gray to dark gray and pinkish chert. Traces quartz
- 385 - 390 Dark gray to black and little orange-red carbonate. 15 - 20% gray to dark gray chert
- 390 - 395 Black and little dark gray carbonate. Traces dark gray chert.
- 395 - 400 Reddish brown to brick red carbonate. 30 - 40% dark gray to pink and reddish chert. Few "fragments" ocherous mud
- 400 - 404 Dike - mainly decomposed to soft yellow-red, few fragments fresh, almost black, with fine elongated feldspar (?) phenocrysts. Little ocherous mud. Traces dark gray carbonate and dark gray chert. Careful panning showed no detectable heavy minerals. (sampled)

End

Assays

Depth	oz. Au/ton	oz. Ag/ton	% Pb	% Zn
400 - 404	Tr.	Tr.	0.13	0.02

Logged by:

JLB

Date Logged: 4/22-24/1981

## GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No. 4  
Elevation 4547  
Dip -90

Depth 400 ft.  
Date Drilled 4/23 to 25, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 16	Overburden
16 - 65	Cretaceous Willow Canyon formation
16 - 30	Maroon and little tan siltstone and mudstone
30 - 45	Tan siltstone and gray-green mudstone
45 - 50	Tan and maroon mudstone
50 - 55	Gray-green and pinkish tan mudstone and siltstone
55 - 60	Pink to maroon and little gray-green mudstone and siltstone
60 - 65	Tan to greenish-tan siltstone to sandstone
65 - 85	Cretaceous Glance formation - conglomerate
65 - 70	80% tan to rose-red siltstone and sandstone (matrix) 20% dark gray to black and little reddish brown carbonate
70 - 75	60% sandstone/siltstone, 40% carbonate as in 65 - 70
75 - 80	40% sandstone/siltstone, 60% carbonate
80 - 85	10% sandstone/siltstone, 90% carbonate
85 - 400	Permian Rainvalley formation
85 - 90	Dark gray to brownish and reddish carbonate
90 - 95	Dark gray to black and little dark reddish-brown carbonate
95 - 100	50% dark gray to black, 50% reddish brown carbonate. Trace calcite
100 - 105	70% dark gray to black and little reddish-brown carbonate, 30% gray quartzite with limey matrix and few magnetite grains and pyrite cubes (oxidized)
105 - 110	Quartzite, as in 100 - 105, plus little pink quartzite
110 - 115	Quartzite, as in 100 - 105, plus little Fe ox (yellow) stained 10% black dolomite

- 115 - 120 Dark gray to black and little brown carbonate. Little calcite.
- 120 - 125 Dark gray to black, brown, and reddish brown carbonate. Little calcite.
- 125 - 130 Dark gray to brown and orange carbonate. Little calcite
- 130 - 135 Dark gray to black and dark reddish-brown carbonate. Little calcite
- 135 - 140 Dark gray to black and dark reddish-brown carbonate. Traces pink chert. Few particles yellow-orange (Fe stained) breccia
- 140 - 145 Dark gray to black and reddish-brown to little reddish carbonate. Traces calcite and quartz
- 145 - 150 Dark gray to black and dark reddish-brown carbonate. 5% pink chert
- 150 - 160 Dark gray to black carbonate. Little gray chert
- 160 - 165 Dark gray to black and dark reddish-brown carbonate. 10% gray-tan to pink chert
- 165 - 170 Dark gray carbonate. 5 - 10% gray to pink chert
- 170 - 175 Dark gray to black and reddish-brown carbonate. Little quartz
- 175 - 180 Dark gray to black and reddish-brown and a little gray and orange carbonate. Traces quartz and calcite
- 180 - 185 Dark gray to black and reddish-brown carbonate
- 185 - 190 Dark gray to black carbonate. Traces quartz
- 190 - 195 Dark gray to black and dark reddish-brown carbonate
- 195 - 205 Reddish-brown and dark gray to black carbonate
- 205 - 215 Dark gray to black and little dark reddish-brown carbonate. Traces calcite
- 215 - 220 Dark gray to black carbonate. 30% dark gray to pink chert
- 220 - 225 Dark gray to black carbonate. 30 - 35% gray to pink chert
- 225 - 230 Dark gray to black carbonate. 20 - 25% dark gray to pink chert
- 230 - 235 Dark gray to black carbonate. Trace pink chert
- 235 - 240 Dark gray to black carbonate. Little gray to pinkish chert

- 240 - 245 Dark gray to black carbonate. 30% gray to pink chert
- 245 - 250 Dark gray to black carbonate. 30% gray to pink and orangish chert
- 250 - 255 Dark gray carbonate. 35% gray to dark gray and a little pink chert
- 255 - 260 Dark gray carbonate. Little gray chert
- 260 - 265 Dark gray to black carbonate with little orange discoloration. 20 - 25% gray to dark gray chert
- 265 - 270 Dark gray to black carbonate. 20% gray to dark gray chert
- 270 - 275 Dark gray to black and little gray carbonate. Little orange discoloration. 5% dark orange mud. 15% gray to dark gray chert
- 275 - 280 Dark gray to brownish and reddish brown, carbonate. 20 - 25% light gray to gray, tan and orangish chert. Little quartz
- 280 - 285 Dark gray to brownish gray carbonate. 15 - 20% light gray to orangish chert
- 285 - 290 Dark gray to brownish and orangish carbonate. 25 - 30% light gray to gray and orangish chert. Traces yellow-green talc (?)
- 290 - 295 Gray to dark gray carbonate. Little pale orange to pink discoloration. 5 - 10% gray to tan and pinkish chert
- 295 - 300 Gray to dark gray carbonate. Some orange to dark reddish-orange discoloration. 20 - 25% gray to dark gray and orangish chert
- 300 - 305 Dark gray, black and gray carbonate. 10% light gray to gray chert
- 305 - 310 Dark gray to black and little gray carbonate. 20% light gray, gray, and white chert
- 310 - 315 Dark gray and little gray carbonate. Traces gray chert
- 315 - 320 Dark gray and little gray carbonate. 5 - 10% white to light gray chert
- 320 - 325 Gray to dark gray carbonate. Little light gray chert
- 325 - 330 Gray to dark gray and little black carbonate. 10 - 15% light gray to gray and little orangish chert

- 330 - 335 Gray to dark gray carboante. 35 - 40% light gray to gray and pinkish chert
- 335 - 350 Gray to dark gray carbonate. 20% gray to dark gray, pinkish and orangish chert
- 340 - 345 Gray to dark gray and little black carbonate. 10 - 15% gray to dark gray chert
- 345 - 350 Dark gray carbonate. Little gray chert
- 350 - 355 Dark gray carbonate. 10 - 15% gray and little white chert
- 355 - 360 Gray to dark gray and little cream-colored carbonate. 20% rusty Fe-stained surfaces and impregnations. Little quartz and calcite. 15% gray to dark gray chert
- 360 - 365 Carbonate, as in 350 - 355. Much Fe-staining. 30% dark green highly-altered dike, 10 - 15% brick red mude (sampled)
- 365 - 370 Dark gray and little reddish-brown to reddish carbonate. Little Fe staining. 10 - 20% gray to pinkish and reddish chert
- 370 - 375 Dark gray to black carbonate. Little Fe staining. 20 - 30% dark gray chert
- 375 - 380 Dark gray to black, little reddish-brown and tan carbonate. Little tan chert
- 380 - 385 Dark gray to black carboante. 10% gray to dark gray chert. Few particles breccia with orange limey matrix
- 385 - 390 Dark gray to black carbonate. Little reddish Fe staining on fracture surfaces. 10% gray to dark gray chert
- 390 - 395 Dark gray to black carbonate. Little Fe staining
- 395 - 400 Dark gray carbonate. Little Fe staining

End

#### Assays

Depth	oz. Au/ton	oz. Ag/ton	% Pb	% Zn
360 - 365	Tr.	Tr.	0.04	0.02

Logged by: JLB

Date Logged: 4/26/81

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No. 3  
Elevation 4526  
Dip -90

Depth 560 ft.  
Date Drilled 4/15 to 18, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 70	Cretaceous Willow Canyon formation
0 - 5	Yellowish tan to pink sandstone and siltstone
5 - 10	As above with little green sandstone and 50% maroon mudstone
10 - 15	Gray-green sandstone and siltstone with little maroon mudstone
15 - 20	As in 10 - 15, but with 50% maroon mudstone
20 - 25	Maroon mudstone
25 - 30	As in 20 - 25, with a little tan siltstone
30 - 35	Tan to pink and maroon mudstone with 40% green siltstone
35 - 40	Green mudstone to siltstone with 30% maroon and pink mudstone
40 - 45	Tan to pink sandstone and siltstone with 5% green sandstone
45 - 50	Maroon mudstone with 40% gray-green to green sandstone and siltstone
50 - 55	Gray-green to green, tan and pink sandstone and siltstone
55 - 60	Pink to maroon mudstone with 10% gray green to green sandstone and siltstone
60 - 65	Pink to maroon with a little gray-green and tan sandstone, siltstone and mudstone
65 - 75	Tan to pink, maroon and ocherous sandstone and siltstone
75 - 85	Cretaceous Glance conglomerate
75 - 80	Tan to pink sandstone and little maroon mudstone with 15% dark gray to black carbonate
80 - 85	Gray to tan and a little pink sandstone with few small chert carbonate particles

## Permian Rainvalley formation

- 85 - 90 Dark gray to black carbonate with 25% brown carbonate containing numerous small quartz sand grains. Little black and white chert
- 90 - 95 As in 85 - 90, with 50% brown carbonate/quartzite
- 95 - 100 Dark gray to black carbonate
- 100 - 105 Dark gray to black carbonate with 10% dark reddish carbonate (probably dolomite) containing numerous round to irregular, straight and curved shard-like clear calcite inclusions. Little gray to dark gray chert
- 105 - 115 Dark gray to black and reddish carbonate - probably dolomite. Contains numerous tiny calcite inclusions or remnants. Little gray to dark gray chert
- 115 - 120 Dark gray to black and little brown carbonate. Little gray chert
- 120 - 125 Dark gray to black and brownish carbonate with 5 - 10% pink chert
- 125 - 130 Dark gray to black and brownish carbonate with 20 - 25% gray to pink chert
- 130 - 135 Same as 125 - 130. 10 - 15% gray to pink chert. Little quartz.
- 135 - 140 Dark gray to black carbonate. Traces chert
- 140 - 145 50% dark gray to black carbonate, 50% pink to reddish chert. Trace quartz
- 145 - 150 Dark gray to black carbonate with 25% reddish carbonate (dolomite) containing many tiny calcite gobs and sherds. Little pink to reddish chert
- 150 - 155 Dark gray to black carbonate with a little reddish dolomite as in 145 - 150, and est. 20% gray to pink chert
- 155 - 160 Brownish to reddish with a little dark gray to black carbonate, and 5% gray to pinkish chert
- 160 - 165 Reddish to dark gray and black carbonate. Little chert and quartz
- 165 - 175 Dark gray to black carbonate
- 175 - 180 Dark gray to black carbonate, few particles white and orange quartz

- 180 - 185 Dark gray to black dolomite with minor orange discoloration. Little quartz and calcite. Few large pieces brown sandstone
- 185 - 190 Dark gray to black and brownish to reddish carbonate
- 190 - 200 Dark gray to black carbonate. Very minor gray chert
- 200 - 205 Dark gray to black carbonate with little orangish discoloration. Minor gray chert and white calcite
- 205 - 210 Dark gray to black carbonate with few orange-red stringers. Little quartz
- 210 - 215 Dark gray carbonate. Traces chert
- 215 - 220 Dark gray to black, brownish and reddish carbonate
- 220 - 225 Dark gray to black carbonate with 30% gray to pinkish chert
- 225 - 230 Dark gray to black carbonate. 35-40% gray to orangish and a little black chert
- 230 - 240 Dark gray carbonate. Little chert and quartz
- 240 - 245 Dark gray to black carbonate with a little orange discoloration and a little light gray to gray chert
- 245 - 250 Dark gray to black carbonate with a little yellow to orange discoloration and 20-25% light gray to gray chert
- 250 - 255 Dark gray to black and a little brownish carbonate with est. 30% ocherous to orangish material. Little gray chert. (Sampled)
- 255 - 260 Gray to dark gray and black carbonate with little orangish discoloration and little gray chert
- 260 - 265 Gray to dark gray carbonate with a little orange discoloration and a few Fe-stained surfaces. Est. 25% gray and a little black chert
- 265 - 270 20% gray to dark gray carbonate, 40% reddish-brown dike with abundant needle-like phenocrysts, and 40% white to light gray carbonate, some fragments with cross-cutting red Fe ox stringers
- 270 - 275 90% dike as in 265-270, with 10% light gray to gray carbonate
- 275 - 280 Dark gray carbonate with 5-20% gray chert
- 280 - 285 Dark gray carbonate with 5% gray chert
- 285 - 290 Dark gray carbonate with 25% gray to orange-brown chert and a few fragments (gouge?) red mud with tiny carbonate and chert inclusions
- 290 - 295 Dark gray carbonate with 40% light gray to gray chert

- 295 - 300 Dark gray to pinkish carbonate with little chert
- 300 - 305 Dark gray and a little gray carbonate with 10% gray to white and pinkish cert
- 305 - 310 Dark gray carbonate with 10% light gray to gray chert
- 310 - 315 Dark gray carbonate with 20-25% light gray to gray chert. Pinkish rims on chert-carbonate contacts
- 315 - 320 Dark gray to brownish carbonate with 30% pink to gray chert
- 320 - 325 Dark gray dolomite with 15% white, gray, pink and a little black chert
- 325 - 330 Dark gray to black carbonate with 30% brownish to orange and red carbonate
- 330 - 335 Dark gray to black carbonate with 10% white to gray chert
- 335 - 340 Brownish to slightly pink, dark gray and black carbonate. Little gray to brown chert
- 340 - 345 60% dark gray carbonate, 40% brownish carbonate. Little gray chert
- 345 - 350 Dark gray to brownish carbonate with much orange discoloration. Little gray to pinkish chert
- 350 - 355 Dark gray to black and brownish carbonate with some orange discoloration. Est. 30% chert - orange to pink, white and gray.
- 355 - 360 Dark gray to brownish carbonate with some orange discoloration. Little light gray to gray chert
- 360 - 365 Gray to brownish and little orange carbonate. Little chert
- 365 - 370 50% dark gray to black carbonate, 50% brownish to reddish quartzite with abundant limey matrix
- 370 - 375 75% dark gray to black carbonate, 30% brownish quartzite, as in 365 - 370.
- 375 - 380 Dark gray to black and a little brown carbonate. 5 - 10% gray to pinkish chert
- 380 - 385 Dark gray to black carbonate
- 385 - 390 Dark gray to black carbonate. 10% gray to tannish chert
- 390 - 495 Dark gray to black carbonate. Traces gray chert. Little Fe stains on fracture or bedding surfaces

- 415 - 420 Little white quartz
- 430 - 435 Est. 5% quartz
- 435 - 440 Est. 5% Fe-stained quartz
- 445 - 450 Est. 5 - 10% gray to pale orange and pale pink chert
- 480 - 490 Many thin red carbonate fracture fillings
- 495 - 510 Dark gray to black and a little brownish carbonate. Few orange stringers and discoloration
- 505 - 510 Few particles with numerous quartz silt grains
- 510 - 545 Dark gray to black and brown to reddish brown carbonate
- 530 - 535 Moderate orange-red discoloration with some calcite and quartz
- 535 - 540 Little tan to pinkish chert
- 540 - 545 Little chert. Est. 5 - 10% pinkish-white to tan tacl
- 545 - 550 Dark gray carbonate with 60% gray to pinkish tan chert
- Hit water at 550½'
- 550 - 555 Dark gray carbonate with 60-70% gray to dark gray chert. Little orange discoloration
- Water dried up after 550 - 555 sample
- 555 - 560 Dark gray carbonate with 50-60% chert

End

Assays

Depth	oz. Au/ton	oz. Ag/ton	% Pb	% Zn
250 - 255	Tr	Tr	0.05	0.02

Logged by: JLB

Date Logged: 4/18/81

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No. 2  
Elevation 4533  
Dip -90

Depth 400 ft.  
Date Drilled 4/10 to 13, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 120	Cretaceous Willow Canyon formation
0 - 10	Tan sand- to siltstone and red mudstone
10 - 20	Red mudstone w/little tan siltstone and little quartz
20 - 25	Pink to pale green and little red sandstone
25 - 55	Brownish red to maroon and little green mudstone
40 - 45	All maroon mudstone
55 - 65	75% reddish mudstone, 25% tan siltstone
65 - 85	Tan to reddish sandstone and siltstone
85 - 120	Tan to reddish and little gray sandstone and siltstone
105 - 110	Little dark green mudstone
115 - 120	Little dark green mudstone
120 - 165	Cretaceous Glance formation
120 - 165	Tan to reddish siltstone and fine to coarse grained sandstone cementing pebbles and cobbles of Paleozoic carbonates
120 - 125	Tr. black carbonate
125 - 135	35% dk. gray to black carbonate
135 - 140	25% carbonate. Much dark red matrix
140 - 145	80% carbonate
145 - 150	15% carbonate
150 - 155	80% carbonate
155 - 160	70% carbonate
160 - 165	20% carbonate, 60% red dike or sill

## Permian Rainvalley formation

- 165 - 175 Red to dk. gray and black carbonate
- 175 - 190 Dark gray to black and little red carbonate
- 190 - 195 Gray to dark gray and black carbonate with little gray and black chert
- 195 - 200 Dark gray to black carbonate with little pink chert
- 200 - 205 20% dk. gray chert
- 205 - 250 Dark gray to black carbonate with little gray to dark gray chert
- 250 - 295 Dark gray carbonate with little gray to dark gray chert
- 295 - 300 Dark gray and pinkish-brown carbonate
- 300 - 305 Dark gray carbonate. Little gray to pale pinkish chert
- 305 - 310 Dark gray carbonate. Moderate amount gray quartz and/or chert
- 310 - 315 Dark gray carbonate with est. 40% gray to pale pinkish quartz and/or chert
- 315 - 320 Dark gray carbonate with minor orange to reddish discoloration with est. 20% gray quartz and/or chert
- 320 - 335 Dark gray carbonate. Very little chert or quartz
- 335 - 340 50% dark gray carbonate, 50% dark gray to dark reddish brown quartzite with abundant limey matrix
- 340 - 345 40% quartzite, as in 335 - 340, 60% dark gray to black carbonate
- 345 - 350 70% dark gray to black carbonate, 30% quartzite, as in 335 - 340
- 350 - 355 Dark gray to black carbonate with little reddish quartzite.
- 355 - 360 40% dark gray to black carbonate. 60% dark gray to dark reddish brown quartzite
- 360 - 365 70% dark gray, dark grayish brown and dark reddish brown quartzite, 30% black carbonate
- 365 - 370 50% quartzite, as in 360 - 365, 50% black carbonate

- 370 - 375 Dark gray to black carbonate. Little white quartz and gray to dk. gray chert
- 375 - 380 Dark gray to black carbonate. About 15% white to gray quartz and chert
- 380 - 385 Dark gray to black carbonate with about 10% white to gray chert
- 385 - 400 Dark gray to black carbonate

Logged by: JLB

Date Logged: 4/13/81

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No. 1  
Elevation 4567  
Dip - 90

Depth 350 ft.  
Date Drilled 4/13-4/15, 1981  
Driller: Drilling Services Co.

Interval	Description
0 - 155	Cretaceous Willow Canyon formation
0 - 20	Tan to ochre-colored siltstone and maroon mudstone
20 - 30	Maroon mudstone & siltstone with a little green sandstone
30 - 35	Tan to pink sandstone & siltstone with 20% maroon mudstone
35 - 40	50% sandstone & siltstone, 50% mudstone, as above
40 - 45	70% tan to pink and red with a little green sandstone and siltstone. 30% maroon mudstone
45 - 50	Maroon with little tan to pink siltstone & sandstone with 20% maroon mudstone
50 - 60	Tan and pink to maroon sandstone and siltstone with a little maroon mudstone
60 - 65	Same as 50 - 60, but with a little green siltstone
65 - 70	Yellowish-tan to pink siltstone and sandstone
70 - 75	Gray-green to tan & red mudstone & siltstone
75 - 80	Same as 70 - 75, but with 20% yellow-ochre colored mudstone
80 - 85	50% tan to pink and little green sandstone & siltstone, 50% maroon mudstone
85 - 90	50% tan to pink and gray-green sandstone & siltstone, 50% maroon mudstone
90 - 95	Tan to yellowish green sandstone with minor gray-green siltstone and maroon mudstone
95 - 110	Maroon mudstone & siltstone with a little green siltstone
110 - 115	Tan to pink and gray-green sandstone & siltstone with a little maroon mudstone
115 - 120	Same as 110 - 115, but more green sandstone/siltstone

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No.  
Elevation  
Dip

Depth  
Date Drilled  
Driller

Interval

Description

120 - 125	Maroon to pink and a little tan mudstone & siltstone
125 - 130	Dark maroon mudstone & siltstone
130 - 135	Tan to gray-green & pink siltstone with 25% maroon mudstone
135 - 140	Pink to gray-green sandstone & siltstone
140 - 145	Pink to tan and a little gray-green sandstone
145 - 150	Pink and a little gray-green sandstone
150 - 155	Tan to yellowish brown, pink and gray-green sandstone & siltstone
155 - 195	Cretaceous Glance formation (conglomerate)
155 - 160	80% pink to dark gray & black carbonate pebbles & cobbles with 20% pink to red sandstone matrix
160 - 165	60% carbonate, 40% sandstone, as above
165 - 170	40% carbonate, 60% sandstone, as above
170 - 180	50% carbonate, 50% sandstone, as above
180 - 185	85% carbonate, 15% sandstone, as above
185 - 190	70% carbonate, 30% sandstone, as above
190 - 195	30% carbonate, 50% sandstone, as above
195 - 350	Permian Rainvalley formation
195 - 200	75% to 80% dark gray to black carbonate and 20% quartz siltite, with little reddish sandstone (possibly contamination)
200 - 205	Dark gray to black carbonate. Finely brecciated, with Fe-stained carbonate filling.
205 - 210	50% dark gray to black carbonate, 50% orange carbonate. Probably dolomitic - very little acid reaction.
210 - 215	Finely brecciated dark gray to black carbonate with yellow to orange carbonate filling. Little quartz.

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No.  
Elevation  
Dip

Depth  
Date Drilled  
Driller

Interval

Description

215 - 220 30% dark carbonate, 70% tan to reddish, orange, and ochre-colored sandstone. Little quartz.

220 - 225 Brecciated dark gray to black carbonate with orangish carbonate and a little sandstone filling. Possible traces of wulfenite. Traces iron oxide. (Sampled)

225 - 230 As in 220 - 225. Traces quartz and iron oxide (Sampled)

230 - 235 As in 220 - 225. Traces quartz.

235 - 240 Dark gray to black carbonate. Little breccia as in 220 - 225. Little gray chert and quartz.

240 - 245 As in 235 - 240. Est. 30% breccia.

245 - 250 Gray to dark gray (partly silicified?) Carbonate with est. 30% ocherous sandstone, probably as solution cave filling.

250 - 255 Gray to dark gray carbonate with moderate amount ocherous to orange and reddish discoloration and fracture filling. Little gray chert.

255 - 260 As in 250 - 255. Little black manganese (?) stain.

260 - 265 Gray to dark gray and brownish carbonate. Little orange to reddish discoloration, as in 250 - 260

265 - 270 As in 260 - 265. Very small amount of discoloration.

270 - 275 Gray to dark gray carbonate with minor orange staining.

275 - 280 Gray to dark gray carbonate. Est. 30% gray and light gray to pinkish chert.

280 - 285 Gray to dark gray carbonate with est. 40% pinkish to gray chert.

285 - 290 As in 280 - 285, with est. 25% gray to pinkish chert.

290 - 295 Gray to dark gray carbonate with a little pale orange discoloration. Est. 15% gray and a little black chert.

295 - 300 Gray to dark gray carbonate with a little tan to pinkish discoloration. Est. 5 - 10% gray chert.

GEOLOGIC LOG

TOTAL WRECK DRILLING PROJECT  
DAY MINES, INC.

Hole No.  
Elevation  
Dip

Depth  
Date Drilled  
Driller

Interval

Description

300 - 310 Dark gray to black carbonate with a little pinkish discoloration. Traces gray chert.

310 - 315 Gray to dark gray carbonate. Little pinkish discoloration.

315 - 320 Gray to dark gray and brown carbonate with 50% pinkish quartzite. Est. 5 - 10% gray chert.

320 - 325 50% dark gray carbonate. 50% pinkish quartzite with abundant limey carbonate matrix.

325 - 330 Dark gray to black carbonate. 5% quartzite as in 320 - 325.

330 - 335 Dark gray to black carbonate with little gray to dark gray chert.

335 - 340 50% dark carbonate, 50% dark grayish-brown quartzite with abundant matrix, limey carbonate

340 - 345 Dark grayish-brown to dark reddish brown quartzite. Little dark gray chert

345 - 350 60% quartzite as in 340 - 345, 40% dark gray to black carbonate.

End of Hole

Assays

Depth	oz. Au/ton	oz. Ag/ton	% Pb	% Zn
220 - 225	Tr.	0.01	Tr.	0.03
225 - 230	Tr.	Tr.	0.04	0.02

Logged by: JLB

Date Logged: 4/15/81

# THE ANACONDA COMPANY

151 S. TUCSON BLVD., SUITE 212, TUCSON, ARIZONA 85718

GEOLOGICAL DEPARTMENT  
SOUTHWEST OFFICE



October 13, 1967

Mr. Dewey Wilkins  
1134 North 1st Avenue  
Tucson, Arizona

Dear Mr. Wilkins:

The following is a list of assays from the samples you submitted from your claims near the Total Wreck Mine in the Empire Mountains, Pima County, Arizona.

<u>Sample No.</u>	<u>Location</u>	<u>% Copper</u>	<u>% Lead</u>	<u>oz./ton Gold</u>	<u>oz./ton Silver</u>
2601	Tunnel #4 dump	9.78		0.006	3.34
2602	Millsite	29.35		nil	0.40
2603	60 ft. adit about 1/2 mile north of tunnel #4	10.75		0.012	12.33
2604	See attached list and maps	0.014	0.21		0.18
2605	" " " " "	0.012	0.10		0.06
2606	" " " " "	0.009	0.08		0.04
2607	" " " " "	0.007	0.12		0.04
2608	" " " " "	0.283	0.12		0.03
2609	" " " " "	0.004	0.09		0.04
2610	" " " " "	0.013	0.10		0.06

We are unable to schedule an examination of your property at this time, and will contact you when it is possible to do so.

Thank you for bringing your claims to our attention.

Yours very truly,

Paul H. Pickard

PHP:je  
cc Mr. M. F. Thompson  
Mr. G. A. Barber

Samples taken September 25, 1967.  
By Dewey Wilkins  
In the Empire Mnts. at the Empire claim.

- Sample #2608* #1. Sample listed as ,mill site at ditch, was taken in a trench on the southern edge of the mill site about 3 feet below ground level. The trench gives a cross section ~~xxx~~ of the floor of the mill site.
- #2605* #2. Sample listed as, location pole-mill site- was taken at the northern edge of the mill site at a depth of about 4 feet. An elevation at this point of about 10 feet above the point at which Sample # 1 was taken.
- Sample #2604* #3. Sample listed as; exploration tannel T W \* , was taken about 50 yards south of mill site in a tunnel on the property belonging to "Total Wreck" because of a definetely defined stratum that runs north into my claim ata a depth of about 50 feet in relation to the mill site.
- #2606* #4. Sample listed as ; North border-middle- taken about 300 feet east of the northwest corner, where a wash has exposed rock in place, and alsoe- a well-defined vein of Hematite, Quartzite, and suspected Siver-bearing rock.
- #2607* #5. Sample listed as; North border-middle (b)-was taken about 100 feet east of #4.a in the same manner as #4.
- #2610* #10. Sample listed as: North border, Taken at an exposed face (or cliff) at about 150 feet west of the road.
- #2609* #11. Sample listed as ; Location cut- Taken about 300 feet north of mill site about 20 feet higher in elevation; At the site of blasing done 4 September, 1967, by myself., at a depth of approximately 5 feet.

\* Total Wreck.

Dewey Wilkins



30 So. Main St.  
P. O. Box 1889



# Jacobs Assay Office

PHONE MA 2-0818

Registered Assayers

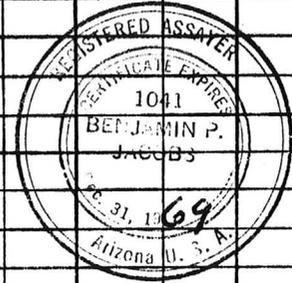
85702 Tucson, Arizona,

Sept. 13<sup>th</sup>, 1969  
Mr Dewey Wilkins

Sample Submitted by Mr.

TOTAL WRECK Mining Co.

Sample Marked	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay
#6	0 01	0 70	0 3	0 05	4 8			
25	0 03	1 05	4 9	0 30	1 8			
26	0 03	1 05	7 1	0 41	4 0			
27	0 02	0 70	5 0	0 57	2 1			
28	0 02	0 70	7 5	1 01	12 2			
29	0 04	1 40	9 1	2 36	7 3			
30	0 02	0 70	6 0	1 32	4 2			
31	0 03	1 05	5 5	0 95	6 9			
32	0 02	0 70	4 4	0 53	0 8			
33	0 01	0 35	0 4	0 46	1 4			
34	0 01	0 35	0 2	0 23	0 6			
35	0 01	0 35	2 3	0 21	1 0			



\* Gold Figured \$35.00 per oz. Troy

Charges \$ 69<sup>00</sup>

Very respectfully,

*Ben P. Jacobs*

30 So. Main St.  
P. O. Box 1889



# Jacobs Assay Office

PHONE MA 2-0818

Registered Assayers

85702 Tucson, Arizona

Sept 19<sup>th</sup> 1969

Sample Submitted by Mr.

Total Wick Munny Co - Mr Dewey Wilkins

Sample Marked	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay
# 37	002	070	21	080	31			
38	004	140	326	122	56			
39	001	035	08	027	18			
40	003	105	52	092	50			
41	002	070	43	500	315			
42	001	035	03	007	01			
44	003	105	76	212	88			
45	003	105	88	056	65			
46	001	035	50	096	32			
47	003	105	197	171	33			
48	002	070	76	070	58			
49	002	070	69	162	14			
50	002	070	121	021	20			
51	Trace		03	003	02			
52	Trace		05	232	02			



\* Gold Figured \$35.00 per oz. Troy

Charges \$

86.25

Very respectfully,

*Ben P. Jacobs*

30 So. Main St.  
P. O. Box 1889



# Jacobs Assay Office

## Registered Assayers

PHONE MA 2-0818

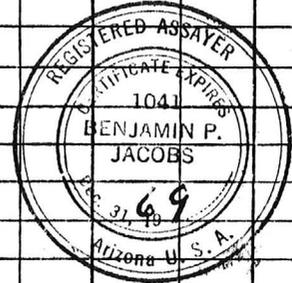
85702 Tucson, Arizona

Sept 23<sup>rd</sup>, 1969

Sample Submitted by Mr.

*Total Wreck mine - Mr. Dewey Wilkins*

Sample Marked	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay
#53	003	105	10.6	1.55	0.2			
54	Trace		2.5	0.60	1.7			
55	Trace		2.0	0.10	0.2			
56	003	105	8.8	0.38	0.3			
57	0005	0.17	0.3	0.07	0.1			
58	006	2.10	43.5	6.05	0.3			
59	002	0.70	12.5	6.65	0.8			
60	Trace		0.2	0.11	0.1			
61	0005	0.17	1.6	0.31	0.1			
62	001	0.35	2.5	0.09	9.6			
63	001	0.35	7.1	1.47	3.1			
64	Trace		0.4	0.08	0.3			



\* Gold Figured \$35.00 per oz. Troy

Charges \$ 69<sup>00</sup>

Very respectfully,

*Ben P. Jacobs*

30 So. Main St.  
P. O. Box 1889



# Jacobs Assay Office

PHONE MA 2-0818

Registered Assayers

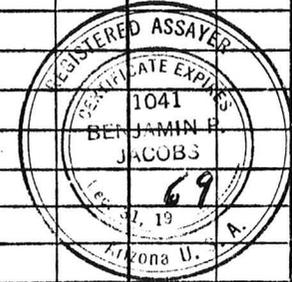
85702 Tucson, Arizona

Sept 24<sup>th</sup>, 1969

Sample Submitted by Mr.

Total Wreck Mine - Mr Dewey Wilkins

Sample Marked	GOLD Ozs. per ton ore	GOLD Value per ton ore *	SILVER Ozs. per ton ore	COPPER Per cent Wet Assay	LEAD Per cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay	Per Cent Wet Assay
# 65	0005	017	3.0	038	0.2			
66	001	035	6.7	107	0.8			
67	Trace		2.4	015	1.2			
68	002	070	25.7	114	5.0			
69	001	035	7.2	058	1.8			
M.T. 1	003	105	7.2	127	11.8			
M.T. 2	002	070	8.7	123	5.5			
M.T. 3	001	035	7.0	076	3.7			
M.T. 4	002	070	7.2	148	7.3			



\* Gold Figured \$35.00 per oz. Troy

Charges \$ 51.75

Very respectfully,

*Ben P. Jacobs*



**HAWLEY & HAWLEY**  
 ASSAYERS AND CHEMISTS, INC.  
 1700 W. GRANT RD. • BOX 5934 • 622-4836  
 TUCSON, ARIZONA 85703

BRANCHES  
 DOUGLAS, ARIZONA  
 HAYDEN, ARIZONA  
 EL PASO, TEXAS  
 AMARILLO, TEXAS

IDENTIFICATION	GOLD OZS	SILVER OZS	LEAD %	COPPER %	ZINC %	MO. %	IRON %		
#36	Nil	1.40	1.73	0.12					
#43	0.010	18.53	5.37	1.04					
CC: Total Wreck Mining Company ADD: P. O. Box 6219 CITY: Tucson, Arizona 85716 DD: CITY:				<b>REMARKS:</b> Single determinations Total charges - \$17.20 Check #126 <u>17.20</u> Balance due 0.00		<b>ANALYSIS CERT. BY</b>  PREPARATION \$ 1.70 ANALYSIS \$ 15.50			
ACC: TOTAL WRECK MINING COMPANY				DATE SPL RECEIVED 8/29/69	DATE COMPL 9/3/69	TUC 343405		PAID 17.20	

## MEMORANDUM

To \_\_\_\_\_ File \_\_\_\_\_ Date July 14, 1981  
From JLB \_\_\_\_\_ Re \_\_\_\_\_  
Miscellaneous Notes re:  
~~Logs of DMI Drill Holes,~~  
Total Wreck Property, Pima  
County, Arizona

I referred to the Rainvalley formation as carbonate throughout the logs, because of the wide variation in the way that individual chips reacted to dilute HCl. Some of the chips reacted only slightly and so were evidently limey dolomite; others reacted more violently, apparently ranging from dolomitic limes to nearly pure limestones. Even the "quartzites" exhibited some acid reaction, ranging from quartzite with minor lime cement through lime-cemented quartzites to sandy limestones, consistent with observations made of the different quartzite units during field mapping. In general, it appeared that the more dolomitic units produced more and larger chips, being more brittle than the limestones, which tended to grind rather than fracture, and so produced larger quantities of dust and less of chips.

No green or blue copper carbonate "staining" was noted in any of the holes, even though that type of staining is common in the low-grade and waste areas between and surrounding the old stopes in the Total Wreck Mine. No other mineralization, either sulfide or oxide, was observed either.

I did not make a detailed geological map of the mine workings. However, from observations of both surface and underground exposures, it appeared that mineralization was confined to a combination of solution-and-rubble-fill and solution-and-collapse breccias. Only in a few places during the logging of the cuttings did I observe material which resembled the rubble filling. These were sampled and assayed, even though no definite mineralization was seen.

sk

**DAY MINES, INC.**

P. O. Box 1010 Wallace, Idaho 83873 (208) 752-1161

October 14, 1981

Mr. James V. Wilkinson  
Pauba Ranch, P. O. Box 37  
Temecula, California 92390

Dear Sandy:

Enclosed are copies of factual information generated by Day Mines during our examination of the Total Wreck property:

50 scale colored <sup>①</sup>map of Total Wreck mine area showing geology, drill holes and other surface features.

50 scale sketch of Total Wreck <sup>②</sup>workings north of access road, showing some geology.

500 scale (+) <sup>③</sup>aerial photographs with trace of the Andrada fault, as determined by field observations.

Logs of the <sup>④</sup>six reverse circulation holes drilled by Day Mines.

Memo relating to drill hole <sup>⑤</sup>logs.

If you have any questions concerning this material, please call me.

Very truly yours,



James L. Browne  
Chief Exploration Engineer

JLB sk

HECLA MINING COMPANY

P.O. BOX 320  
WALLACE, IDAHO 83873

(208) 752-1251  
TELEX 326476

November 9, 1981

Mr. James V. Wilkinson  
Pauba Ranch, P. O. Box 37  
Temecula, CA 92390

Dear Sandy:

As you requested by your letter of October 19, I made a mylar original of our Total Wreck map, which I will send on to you under separate cover.

The aerial photos are available through a company called Exploration Photography, 5100 Camino Esplandora, Tucson, AZ 85718, or (602) 299-2747. Dana Slaymaker is the man to talk to. I called him this morning, and gave permission for you to have prints made.

Dana flew five lines of seven photos each. We had color prints made, supposedly to a scale of 500 ft. per inch, (they are off a little), but I imagine he could prepare prints on a different scale if you wanted him to. The project number is 006, and the flight line best showing the Total Wreck area is #4. The other lines cover the surrounding area, all about 9" by 9" photos.

Again, good luck with further work on the claims. I hope you find something worth mining.

Very truly yours,



James L. Browne  
Northwest Exploration Engineer

JLB jh

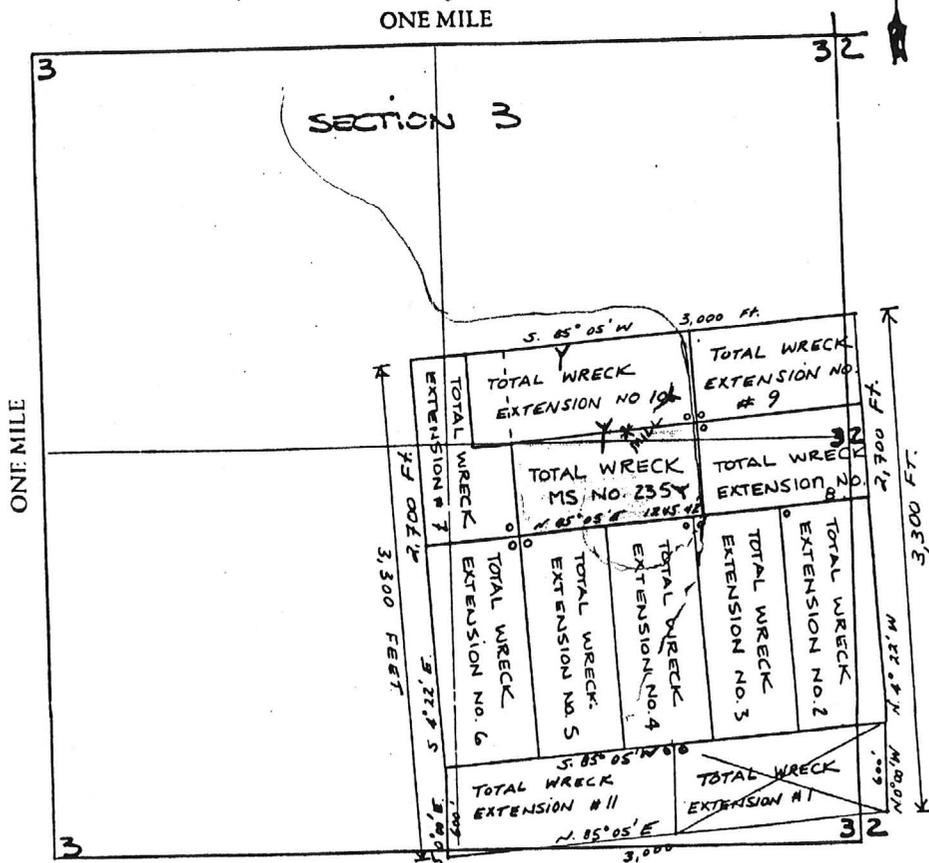
# MAP OF MINING CLAIM LOCATION

- The name of the claim is TOTAL WRECK EXTENSION # 1
- The Southeast corner of the claim is 338.31 feet in a S. 61° 08' 46" W. direction to a survey monument or permanent natural object described as Common section corners 2, 3, 10, and 11, T. 18 S., R. 17 E., G. & S.R. B. & M
- The type of location monument is 2" x 2" wooden post 4" PVC PIPE  
The type of corner and end monuments are 2x2" wooden posts
- The bearing and distance between the corners of the claim are beginning at the southeast corner of the claim, 1500 feet in a S. 85° 05' W. direction to the Southwest corner, then 600 feet in a N. 0° 00' W. direction to the Northwest corner, then 1500 feet in a N. 85° 05' E. direction to the Northeast corner, then 600 feet in a S. 0° 00' E direction to the point of beginning.

## MAP

One inch = One thousand feet

North Arrow



Section 3 Range 17 E Township 18 South G&SRB&M

Date March 6, 1986

*James T. [Signature]*  
*Ray L. [Signature]*  
 Signature

7736 943

# DAY MINES, INC.

P. O. Box 1010      Wallace, Idaho 83873      (208) 752-1161

October 9, 1981

Mr. James V. Wilkinson  
Pauba Ranch, P. O. Box 37  
Temecula, California 92390

Dear Mr. Wilkinson:

This letter is formal notification that Day Mines is terminating its agreement of August 11, 1980 with you, Juan Munoz and Perry Exploration Company on the Total Wreck patented claim and the So-So unpatented group in Pima County, Arizona.

I realize we have spent enough on the property to hold it until the next anniversary date, but I have reviewed all the information again and am convinced that we can't justify any additional expenditures. You might as well have the claims back in case you want to try to interest another company to do some work on them.

If we had intersected even some low-grade in one or two of the holes, we probably would have continued to work. We surely didn't eliminate all the possibilities, but I believe we satisfactorily tested the concepts that interested us in the property initially.

Day Mines' merger with Hecla is scheduled for the 20th of this month. Hecla now has enough shares in hand that there is not the slightest doubt that the merger will be ratified by the shareholders. Consequently, I discussed the project, our ideas, and the results of the work with Gene Ealy, Hecla's V.P. of Exploration. He agrees that there should be no further interest on our (Hecla-DMI) part.

The only remaining obligation we have is to the State of Arizona to perform reclamation work on our drill sites and roads. I have made arrangements with Construction Consultants of Tucson to do this work, and they expect to accomplish it next week. It will consist of plowing up the roads and sites, so that the rough ground will catch seeds and whatever moisture is available, and revegetate itself. I asked about reseeding, but they (the State Land Dept. officials) apparently prefer natural revegetation.

I am including a photocopy of this year's Assessment Work Affidavit, showing that it was received by the BLM. This is probably all we will get from them.

I will make copies of all the factual data we generated on the project and forward them to you under separate cover. I'll be meeting Juan at the Northwest Mining Association Convention in December and will discuss it with him in detail. If you, or some other company, want to talk it over some day, I'd be happy to oblige.

We certainly appreciate the cooperation that you, Juan and Al have given us, and can only wish that the project had been successful. Maybe the next company will have more luck!

Very truly yours,

A handwritten signature in cursive script, appearing to read "James E. Browne".

James E. Browne  
Chief Exploration Engineer

JLB sk

STATE OF ARIZONA, PIMA } ss. I hereby certify that the within instrument was filed and recorded  
County of \_\_\_\_\_, 43-3-10 PM M.  
In Docket No. 6585, Page 689, at the request of

Fee No.: **81302**

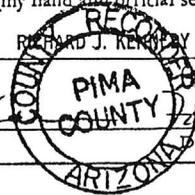
When recorded mail to:

P.O. Box 1010  
Wallace, Idaho  
83873

Witness my hand and official seal.

By Richard J. Kennedy County Recorder  
\_\_\_\_\_ Deputy Recorder

Fee: \$ 3.00



## AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona }  
County of Pima } ss

1. James L. Browne, Chief Exploration Engineer  
Name  
Day Mines, Inc., P.O. Box 1010  
Address  
Wallace Idaho 83873  
City State Zip

being duly sworn according to law deposes and says that they are a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of their knowledge, information and belief.

- That they are personally acquainted with the mining claim named So-So No. 1 through So-So No. 11 situate in the Empire Mining District, Pima County, Arizona, the location of which is recorded in the office of the County Recorder of that County in Book 5935, Page 0787 through 0808. Notice of location is posted in Section 2 & 3, Township 18 S, Range 17 E, G&SRB&M.
- That between the dates of April 8, 1981 and April 29, 1981 at least Eleven hundred (\$ 1100.00) dollars worth of work and improvements were done and performed upon this claim not including location work.
- The work and improvements were made by and at the expense of Day Mines, Inc. for James V. Wilkinson, Juan Munoz & Perry Exploration Co., owners of the mine for the purpose of complying with the laws of the United States pertaining to assessments or annual work.
- Construction Consultants of Tucson, Arizona and Drilling Services Co. of Tempe, Arizona were the names of the persons employed by the owner who labored to do the work and improvements.
- The work and improvements done were Bulldozer work to establish drill sites and access to drill sites; and reverse circulation drilling of six holes, ranging in depth from 350 ft. to 560 ft.

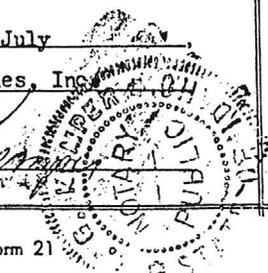
Dated July 30, 1981

James L. Browne  
Signature  
for Day Mines, Inc.

Subscribed to and sworn before me, a Notary Public, this 30th day of July 19 81, by James L. Browne, Chief Exploration Engineer - Day Mines, Inc.

My Commission expires 6/1/85

E. J. Kennedy  
Notary Public

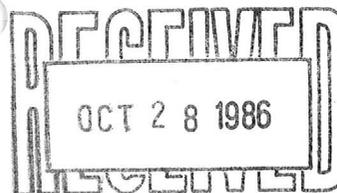


6585 PAGE 689

ARIZONA DEPT. OF MINES & MINERAL RESOURCES  
STATE OFFICE BUILDING  
416 W. CONGRESS, ROOM 161  
TUCSON, ARIZONA 85701

LEGAL NOTICE

PUBLIC AUCTION SALE



Pursuant to the directive of the Arizona Board of Regents, The University of Arizona will offer for sale at public auction to the highest and best bidder at 11:00 a.m. on Wednesday, January 14, 1987, the Plaza International Hotel, 1900 E. Speedway, Tucson, Arizona, the following patented mining claim:

Total Wreck patented <sup>f</sup> ~~lead~~ <sup>lode</sup> mining claim #5254, located in Section 3, Township 18 South, Range 17 East G. & S. R. B. & M., Empire Mining District.

Acreage is approximately 17.15.

The property is located approximately 7 1/2 miles off of I-10 on the gas line road that is about one mile west of the Cienega Creek bridge. The elevation of the Total Wreck is 4,600 feet.

Minimum bid: \$12,862.50.

**Earnest Money Deposit:** The high bidder will be required to sign an escrow document and deposit earnest money in the amount of five percent (5%) of the high bid within 48 hours of the auction at the Department of Assets and Land Management, 1628 E. Helen, Tucson, Arizona in cash or cashier's check.

**Conditions for Credit Sales:** The high bidder shall pay at closing the balance of the down payment (20% of the purchase price less earnest money deposit) accompanied by a signed Note and Deed of Trust acceptable to the Arizona Board of Regents securing the balance of the purchase price. Said balance will be payable in sixty (60) monthly installments with interest on all unpaid principal at the rate of 10% per annum. Said interest shall commence from the day of recording. Pre-payment in full or in part is acceptable without penalty. Any credit sale will be evaluated by reducing terms to net present value. Additionally, the high bidder will be required to supply a financial statement and a personal guarantee of the note.

The bid determined by the University to be the highest and best bid will be reported to the Arizona Board of Regents for its consideration and approval. All bids, terms and conditions are subject to Board acceptance and approval and to the applicable Board policies, Arizona State laws, rules & regulations. No sale will be closed prior to final Board approval.

Closing shall be within sixty (60) days after the Arizona Board of Regents' approval and acceptance of the bid and the sales agreement. Failure to close will result in forfeiture of earnest money deposit and abrogation of any sales contract.

The University reserves the right to reject all bids; cancel said sale; adjourn said sale and continue it from time to time without further notice other than that given at the time of the sale; all bids must remain irrevocable for sixty (60) days for University's evaluation.

Supplemental information should be obtained from Leon Goodman, Director of Assets and Land Management, 1628 E. Helen, Tucson, Arizona, 85719 or by calling (602) 621-3055, by any party interested in bidding.

6

**TERMS AND CONDITIONS  
TOTAL WRECK PATENTED MINING CLAIM  
AUCTION**

1. DATE: January <sup>14 1987</sup> ~~7~~ 1987, Wednesday
2. TIME: 11:00 A.M.
3. PLACE: Plaza International Hotel, 1900 E. Speedway,  
Tucson, Arizona
4. LEGAL DESCRIPTION:  

Total Wreck patented <sup>lode</sup> ~~lead~~ mining claim #5254, located in  
Section 3, Township 18 South, Range 17 East G. & S. R. B.  
& M., Empire Mining District.
5. ACREAGE: Approximately 17.15 Acres.
6. EARNEST MONEY DEPOSIT:  

The high bidder will be required to sign an escrow  
document and deposit earnest money in the amount of five  
percent (5%) of the high bid within 48 hours of the  
auction at the Department of Assets and Land Management,  
1628 E. Helen, Tucson, Arizona in cash or cashier's  
check.
7. MINIMUM BID: \$12,862.50
8. CONDITIONS FOR CREDIT SALES:

The high bidder shall pay at closing the balance of the down payment (20% of the purchase price less earnest money deposit) accompanied by a signed Note and Deed of Trust acceptable to the Arizona Board of Regents securing the balance of the purchase price. Said balance will be payable in sixth (60) monthly installments with interest on all unpaid principal at the rate of 10% per annum. Said interest shall commence from the day of recording. Pre-payment in full or in part is acceptable without penalty. Any credit sale will be evaluated by reducing terms to net present value. Additionally, the high bidder will be required to supply a financial statement and a personal guarantee of the note.

9. NON-ASSIGNABILITY:

The purchase agreement and any escrow instructions arising therefrom are not assignable until the escrow has closed.

10. CLOSING:

Shall be within sixty (60) days after the Arizona Board of Regents' approval and acceptance of the bid and the sales agreement. Failure to close will result in forfeiture of earnest money deposit and abrogation of any sales contract.

11. FORFEITURE OF DEPOSIT:

In the event that the high bidder fails to close or fails to comply with any of the terms of sale, the Arizona Board of Regents shall be entitled to retain the earnest money as liquidated damages and the high bidder shall forfeit his right to the property and all other claims against the Board arising from this sale.

12. REJECTED BID:

The bid selected for presentation is subject to formal approval and acceptance by the Arizona Board of Regents. If the bid is not approved by the Arizona Board of Regents, the deposit will be refunded without interest, and the bidder shall have no further claims against the State of Arizona or Board of Regents.

13. DISCLAIMER OF WARRANTIES:

The Board will convey by Quit Claim Deed only what right, title and interest it has in the property and does not warrant marketability, sufficiency or color of title, ingress or egress to the property, zoning, utilities, or the ground location of property lines other than monumented highway right-of-way lines. The property is subject to all valid rights, exceptions and/or reservations, whether or not these matters are of public record. The obligation is upon any interested bidder to examine to his satisfaction status of all matters affecting the property including the accuracy of title, boundaries, and physical conditions. It is understood that this Disclaimer of Warranties shall remain in full force and effect regardless of the language contained in any subsequent closing documents or deeds.

14. TITLE INSURANCE:

The Board of Regents will furnish a standard form owner's title insurance policy and will pay the reasonable and customary fee.

15. ESCROW AND CLOSING FEES:

The Board of Regents will pay one-half the escrow and closing fees usual and customary in Pima County. Any extraordinary or unusual fees shall be paid by the Purchaser.

16. BIDDING:

Each bid must exceed the preceding bid or the appraised value (whichever is greater), by at least \$500.00.

17. NET PROCEEDS:

The University of Arizona reserves the right to accept or reject any bids and all bids will be evaluated on net proceeds to the University of Arizona.

18. CANCELLATION, POSTPONEMENT OR CONTINUATION:

The Arizona Board of Regents reserves the right to reject any and all bids and to cancel, postpone or continue the sale by Notice given at the sale or at the time of the cancellation, postponement or continuation.

AL D IA DEPARTMENT OF MINER. D SOURCES  
Mineral Building, Fairgrounds  
Phoenix, Arizona

RECEIVED  
7-17-69  
DEPT. OF MINERAL RESOURCES

1. Information from: Dewey Wilkins  
Address: 1134 W 1st Ave Tucson Ariz
2. Mine: Total Wreck 3. No. of Claims - Patented 1  
Unpatented 4
4. Location: Empire Mts
5. Sec 3 Tp 18 S Range 17 E 6. Mining District Empire
7. Owner: Pat Claim James Vail Wilkinson
8. Address: .
9. Operating Co.: Total Wreck Mining Co. (Unincorp)
10. Address: 1134 W 1st Ave Tucson
11. President: J. V. Wilkinson 12. Gen. Mgr.:
13. Principal Metals: Silver 14. No. Employed:
15. Mill, Type & Capacity:
16. Present Operations: (a) Down  (b) Assessment work  (c) Exploration  Evaluation  
(d) Production  (e) Rate  tpd.
17. New Work Planned: Depends on evaluation
18. Miscl. Notes:

Dewey Wilkins and James Vail Wilkinson have been doing a little work at the Total Wreck Mine. They have been planning on opening up the Total Wreck and shipping some ore.  
(GWI Quarterly Report 9/1969)

Date: 7/17/69

Gleason  
(Signature)

(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
OWNERS MINE REPORT

Date 10/31/40

1. Mine ~~Total Wreck~~
2. Mining District & County ~~Empire~~  
Pima County
3. Former name ~~None~~
5. Owner "Vail Estate"
7. ~~Operator~~ Lessee: Jesus Estrada Torres
9. President
11. Mine Supt.
13. Principal Metals Molybdenum, Lead, Ag.
15. Production Rate Not established
17. Power: Amt. & Type
18. Operations: Present ~~and~~ Road repairs, development
4. Location 9 mi. S. from Pantano
6. Address (Owner)
8. Address (~~Operator~~) Pantano, Arizona  
Box 227 - E. 29th St., Tucson
10. Gen. Mgr.
12. Mill Supt.
14. Men Employed
16. Mill: Type & Cap.
19. Operations Planned Depend on market and finances
20. Number Claims, Title, etc. 4 unpatented lode claims

21. Description: Topography & Geograph

TOTAL WRECK MINE

Mo

Pima

10 - 6

S 3, T 18 S, R 17 E

~~Vail Estate, Pantano~~

J. E. Torres, Box 227, East 29th St., Tucson

'40

22. Mine Workings: Amt. & Condition

1 incline shaft 800 ft., 1000 ft. of drifts on 4 levels.  
1 vertical shaft 60 ft., 1 crosscut 40' - 60', 1 tunnel  
400 ft., Winze 40'.  
1 tunnel 600 ft. Winzes and lower drifts.

23. Geology & Mineralization

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

Pockets average 6-8% MoO<sub>3</sub>. 1000 tons in sight  
Further development promises many thousand of tons.

24-A Vein Width, Length, Value, etc.

25. Mine, Mill Equipment & Flow Sheet None

26. Road Conditions, Route Fair condition, 2 men workings 2 weeks will put in good condition

27. Water Supply Nearest water 1/4 mile for camp use, for milling operation 3 miles.  
Road is old and must be repaired

28. Brief History

29. Special Problems, Reports Filed David H. Howell, 4550 Luc Drive, Claremont, Calif.

30. Remarks For operation of 10 tons per day -- 4 men.

31. If property for sale: Price, terms and address to negotiate. Will take partner on 50-50 of profits  
on small operation. Will give fair deal on  
larger operation.

32. Signed..... Jesus Estrada Torres

33. Use additional sheets if necessary.

Properties believed to be owned by U of A - Source unknown

NAME: PROPERTY	DISTRICT	COUNTY	LOCATION TWP-RGE-SECT	SIZE: ACRES	Total Limit * Assessed \$	MINERAL SURVEY NUMBER	Patented Claims	NOTES
U/A EXPERIMENTAL MINE, SAN XAVIER NO 6	1. DEMOCRAT 2. MARJORIE	PIMA	PIMA	17 <sub>s</sub> 12 <sub>E</sub> 3 <sub>10</sub>	20.661 16.560	\$ 16,528 13,248	1758? 1759	11-4-76 539B-D134 5393-D134
OLD AMADO OR MONTOSA MINE 1 MINE IN SLOPE	1. Black Diamond 2. Isabella	TYNDALL	SANTA CRUZ	20 <sub>s</sub> 14 <sub>E</sub> 29 <sup>NW</sup> <sub>1/4</sub>	20.661 20.661	\$ 7500	U/A part of 2 clms	2966 - 1/2 UA, 1/2 MACKENZIE 2967 - 7/8 UA, 1/8 MACKENZIE, 1/8 LENNON
	SUNSET	TOMBSTONE	COCHISE	20 <sub>s</sub> 22 <sub>E</sub> 14 <sup>SW</sup> <sub>1/4</sub>	12.27 Ac	\$ 19,620	Donor 468 R109 LST 50	Patented 1880 2000 ton dump No Monuments
	ALBATROSS	ARIVACA	PIMA	21 <sub>s</sub> 9 <sub>E</sub> 12 <sup>NE</sup> <sub>1/4</sub>	16.87 Ac	\$ 12,653	355	Tunnel - SHAFT
	TOTAL WRECK*	EMPIRE	PIMA	18 <sub>s</sub> 17 <sub>E</sub> 3 <sup>E</sup> <sub>1/4</sub>	17.153	\$ 6,800 \$ 12,800	235	Donor J. VAIL WILKINSON
ALLISON MINE (SABOQUIVARI)	1. SENATOR NO 1 2. SUNBEAM NO 1	FRESNAL	PIMA	18 <sub>s</sub> 7 <sub>E</sub> 28 <sup>SW</sup> <sub>29/30</sub>	20.621 20.522	\$ 16,496 \$ 16,416	4063	on INDIAN RESERVATION contiguous claims
MINNIE MINE NO 1	MINNIE MINE*	CABABI	PIMA	15 <sub>s</sub> 5 <sup>1/2</sup> <sub>E</sub> 12	20.661	\$ 6,818	4066	COMOBABI Mts
MILL SITE	SANTO TOMAS*	CABABI	PIMA	15 <sub>s</sub> 4 <sub>E</sub> 36	5.0 Ac	\$ 1650	Panel 20163	20155 Panel NO Near Graveyard, Near Lincoln and KO Vaya
LA NUEVA BONITA VISTA PLACERS	EDNA J.	Baboquivari	PIMA	19 <sub>s</sub> 8 <sub>E</sub> 31-32 20 <sub>s</sub> 8 <sub>E</sub> 6-7	LEASE 680 STATELAND	Not on Tax Roles (NA)	UN- PAT'D PLACER	W. of Hwy 286 ON INDIAN LAND ALTAR VALLEY Believed to have been WITHDRAWN REVERTED 1978 for lack of activity an (iron, granite or pediment of granite
GREAT AMERICAN SULPHURETTE ALICE HORN SILVER	GREAT AMERICAN GROUP	SWISSHELM	COCHISE	20 <sub>s</sub> 27 <sub>E</sub> 1 <sup>E</sup> <sub>1/2</sub> 20 <sub>s</sub> 28 <sub>E</sub> 6 <sup>NW</sup> <sub>1/2</sub>	46.05 Ac	\$ 25,398 \$ 11,823	830 1262-MS	LESSEE: John Faick * 200/mt To June 1992 4 open shafts and Stopes Sub-leased to ↓
MOUNTAIN QUEEN WHALE MAMMOTH KA: ELFRIDA GROUP	MOUNTAIN QUEEN GROUP	SWISSHELM	COCHISE	20 <sub>s</sub> 27 <sub>E</sub> 12	19.66 19.00 19.00	\$ 26,232 Total	272 M9 273 W 274 M	{ ALHAMBRA MINES INC. GENERAL MINERALS OF AMERICA Rumored lease termination Sparks, Nev
1-10 NUEZ NO 2 - NO 11 11-17 KADLIN NO 1 - NO 7 18 OVERSITE 19-20 OVERSITE NO 1 & 2 2D unpat'd PLACER CLAIMS	MAMMOTH	MAMMOTH	PINAL	9 <sub>s</sub> 17 <sub>E</sub> 13,24 9 <sub>s</sub> 18 <sub>E</sub> 17,18 19,20 29,30	20- 160 Ac 3200 Ac Total	Not on Tax Roles (NA) 20K/ with \$175/Ac Est'd	2 Dead UN- PAT'D PLACER	LESSEE: GILBERT S MOTT GRAHAM Y MOTT Need ASSESSMENT WK. EACH YEAR 1/2 (Non Metal) - Diatomaceous Earth
1 CHRISTMAS 2 FORGET IT 3 DEMOCRAT 4 OCEANIC WEDGE 5 OCEANIC 6 CECIL 7 VICTORIA 1 8 VICTORIA 2 9 CROWN POINT 10 WHITE HILL 11 COLUMBIA	OCEANIC aka OCEANIC aka SAN LUIS	OCEANIC (Las Guijas)	PIMA	21 <sub>s</sub> 9 <sub>E</sub> 27,34	15-claims 309.9 Ac	\$ 231,726 Total \$ 15,458	MS 3685 OCEANIC GROUP MS 4159 "OVERSIGHT"	15 pat'd Claims FLV (Summer * Full Value Prime Improvements Sold: Senator Yavapai Oct 85 Townsite 183A PARKIE

\* Up for Sale

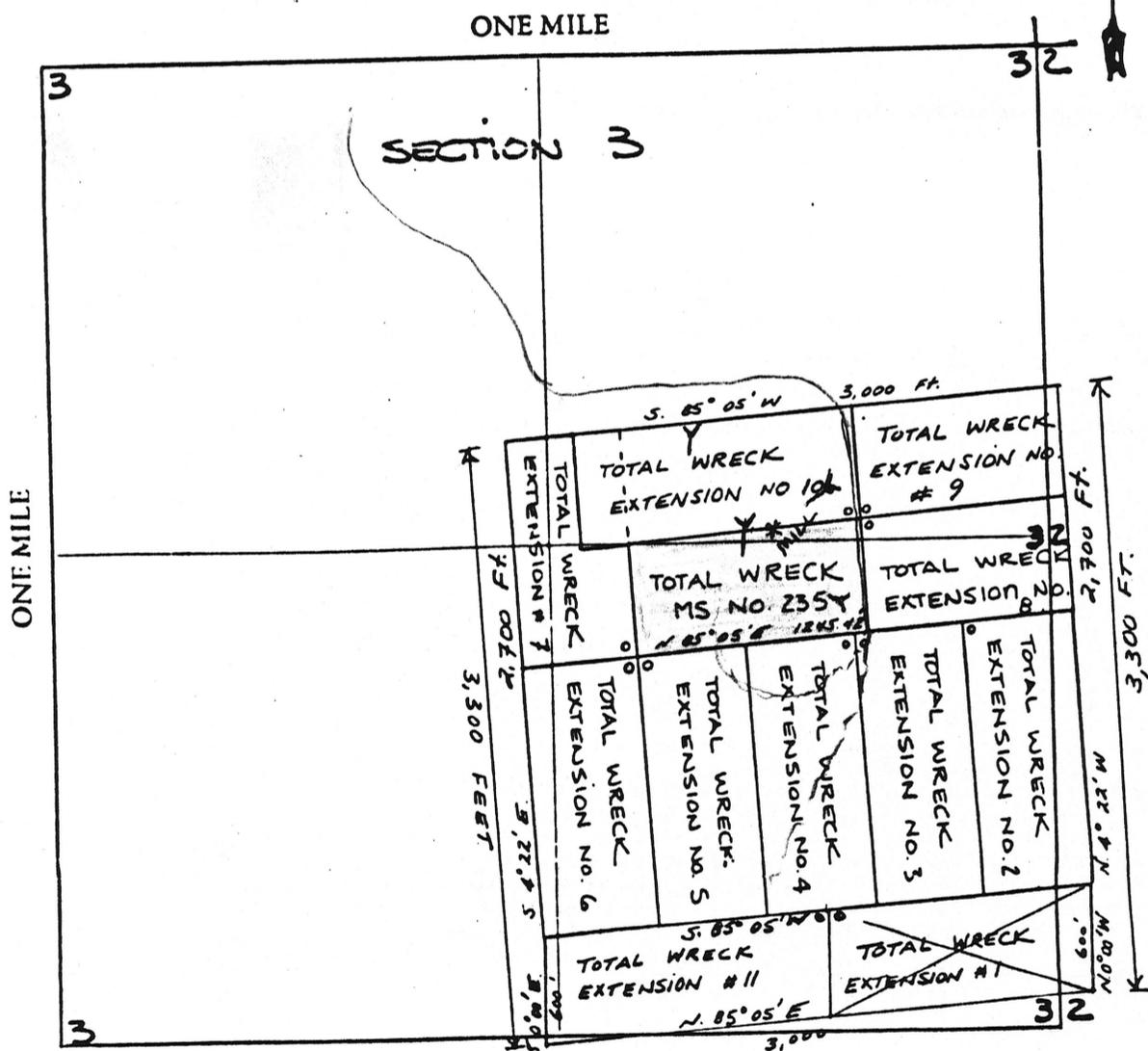
# MAP OF MINING CLAIM LOCATION

- The name of the claim is TOTAL WRECK EXTENSION # 1
- The Southeast corner of the claim is 338.31 feet in a S. 61° 08' 46" W. direction to a survey monument or permanent natural object described as Common section corners 2, 3, 10, and 11, T. 18 S., R. 17 E., G. & S. R. B. & M
- The type of location monument is 2" x 2" wooden post 4" PVC PIPE  
The type of corner and end monuments are 2 x 2" wooden posts
- The bearing and distance between the corners of the claim are beginning at the southeast corner of the claim, 1500 feet in a S. 85° 05' W. direction to the Southwest corner, then 600 feet in a N. 0° 00' W. direction to the Northwest corner, then 1500 feet in a N. 85° 05' E. direction to the Northeast corner, then 600 feet in a S. 0° 00' E direction to the point of beginning.

## MAP

One inch = One thousand feet

North Arrow



Section 3 Range 17 E Township 18 South G&SRB&M

Date March 6, 1986

*James P. [Signature]*  
*Ray L. [Signature]*  
 Signature

7736 943

STATE OF ARIZONA,  
County of PIMA

ss.

I hereby certify that the within instrument was filed and recorded  
143-3 - 7 02 PM M.

Fee No.:

81302

In Docket No. 6585, Page 689, at the request of

Day Mines, Inc.

When recorded mail to:

P.O. Box 1010  
Wallace, Idaho  
83873

Witness my hand and official seal.

RICHARD J. KENNERLY

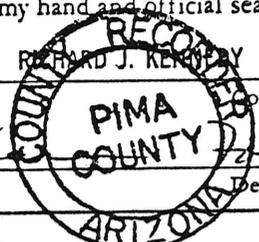
County Recorder

By 10

DEPUTY RECORDER

Fee: \$

3.00



# AFFIDAVIT OF PERFORMANCE OF ANNUAL WORK

State of Arizona

County of Pima

ss

1. James L. Browne, Chief Exploration Engineer  
Name

Day Mines, Inc., P.O. Box 1010  
Address

Wallace  
City

Idaho  
State

83873  
Zip

being duly sworn according to law deposes and says that they are a citizen of the United States more than eighteen years of age and that all of the facts set forth in this affidavit are true and correct according to the best of their knowledge, information and belief.

2. That they are personally acquainted with the mining claim named So-So No. 1  
through So-So No. 11 situate in the Empire Mining District,  
Pima County, Arizona, the location of which is recorded in the office of

the County Recorder of that County in Book 5935, Page 0787 through 0808. Notice of location is posted in Section s 2 & 3, Township 18 S, Range 17 E, G&SRB&M.

3. That between the dates of April 8, 1981 and April 29, 1981  
at least Eleven hundred (\$ 1100.00)  
dollars worth of work and improvements were done and performed upon this claim not including location work.

4. The work and improvements were made by and at the expense of Day Mines, Inc. for  
James V. Wilkinson, Juan Munoz & Perry Exploration Co., owners of the mine for the purpose of complying with the laws of the United States pertaining to assessments or annual work.

5. Construction Consultants of Tucson, Arizona and Drilling Services Co. of  
Tempe, Arizona  
were the names of the persons employed by the owner who labored to do the work and improvements.

6. The work and improvements done were Bulldozer work to establish drill sites  
and access to drill sites; and reverse circulation drilling of six  
holes, ranging in depth from 350 ft. to 560 ft.

Dated July 30, 1981

James L. Browne  
Signature  
for Day Mines, Inc.

Subscribed to and sworn before me, a Notary Public, this 30th day of July  
19 81, by James L. Browne, Chief Exploration Engineer - Day Mines, Inc.

My Commission expires 6/1/85

[Signature]  
Notary Public

