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PRINTED: 03/05/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HULL MINE

ALTERNATE NAMES:

RIALTO GROUP
CHIEF OF DOME
DIANA
SURPRISE
DOUGLAS AND POCAHONTAS
RAILROAD

YUMA COUNTY MILS NUMBER: 19

LOCATION: TOWNSHIP 4 S RANGE 19 W SECTION 24 QUARTER S2
LATITUDE: N 33DEG 03MIN 39SEC LONGITUDE: W 114DEG 09MIN 45SEC
TOPO MAP NAME: CASTLE DOME MTS - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

LEAD
SILVER
FLUORINE FLUORSPAR
MOLYBDENUM
VANADIUM

BIBLIOGRAPHY:

KEITH, S.B., 1978, AZBM BULL. 192, P. 120
ADDITIONAL WORKINGS SEC. 25-C
ADMMR HULL MINE FILE
ADMMR "U" FILE, VANADIUM
AZBM BULL. 134, P. 99
ADMMR A.L. FLAGG VANADIUM RPT, BOOK VI

HULL MINE (RIALTO GROUP)

YUMA COUNTY

ABM Bull. 134 p. 99

A. L. Flagg vanadium reports - Book VI

USBM "U" file - states this property has been
examined for vanadium

USBM Report on AZ Lead Co. July 1945, from USBM files

Castle Dome Dist. War Minerals Report, Oct. 1943 (fluorspar)

ABM Bul. 156

ABM Bul. 192 p. 118 | 20

MILS Sheet sequence number 0040270030

RIALTO GROUP
Pb, Ag
Yuma 14 - 5 T 1 S, R 16 W
Rialto Mining Co., 802 First Nat'l Bank Bldg., Joplin, Mo. '42

RIALTO MINING CORP. (OWNER)
Dr. A. G. Hull, Pres.
802 First Nat'l Bank Bldg.,
Joplin, Missouri

MINE - RIALTO GROUP - Castle Dome Dist., Yuma County.

Hull, Dr. A. G. - President
Ficher, Oklahoma

12-19-39

See RIALTO GROUP (Yuma Co.) Re Field Engineers Report
(Owner-Rialto Mining Co.)

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

USA Arizona, Yuma Co.
Hull mine

MM N 264 Wulfenite
N 265 "
N 267 Wulfenite
N 469 Galena
MM 9343 Galena, Calcite
9344 Galena
9345 Galena, Fluorite
9346 Galena, Fluorite, Calcite

*SMILS # 19
6-AKA
Hull mine (file)*

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

INFORMATION FROM MINE CARDS IN MUSEUM

ARIZONA

MM-K102 Fluorite

Yuma Co.
Castle Dome Dist.
Rialto Mine

5 MILS # 19
6-AKA's
Hull Mine (field)

Date Printed: 12/30/94

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

Information from: **Don Anderson**

Company: Anderson Corporation
Address: 10644 N. Scottsdale Road
City, State ZIP: Scottsdale, Arizona 85254
Phone: 602-922-7114

MINE: **Hull Mine**

ADMMR Mine File: **Hull Mine**

County: **Yuma**

AzMILS Number: 19

SUMMARY

Don Anderson, of the Anderson Corporation was in the office to obtain some definitions for an Securities Exchange Commission filing regarding plans to develop the Hull and Castle Dome mines.

Based on the sketchy information provided it appears that they are including a number of factors in their proposal:

1. Develop the properties for fluorspar and lead.
2. Base a market for fluorspar on increasing demand for hydrofluoric acid required to manufacture new refrigerants.
3. Produce lead by means of a "hydrometallurgical smelter"; actually a galena concentrate, pressure leach / electrolytic process developed by the U.S. Bureau of Mines in the late 1970's, early 1980's at the Reno Metallurgical Research Center.

Ken A. Phillips, Chief Engineer

Date: December 29, 1994 ✓

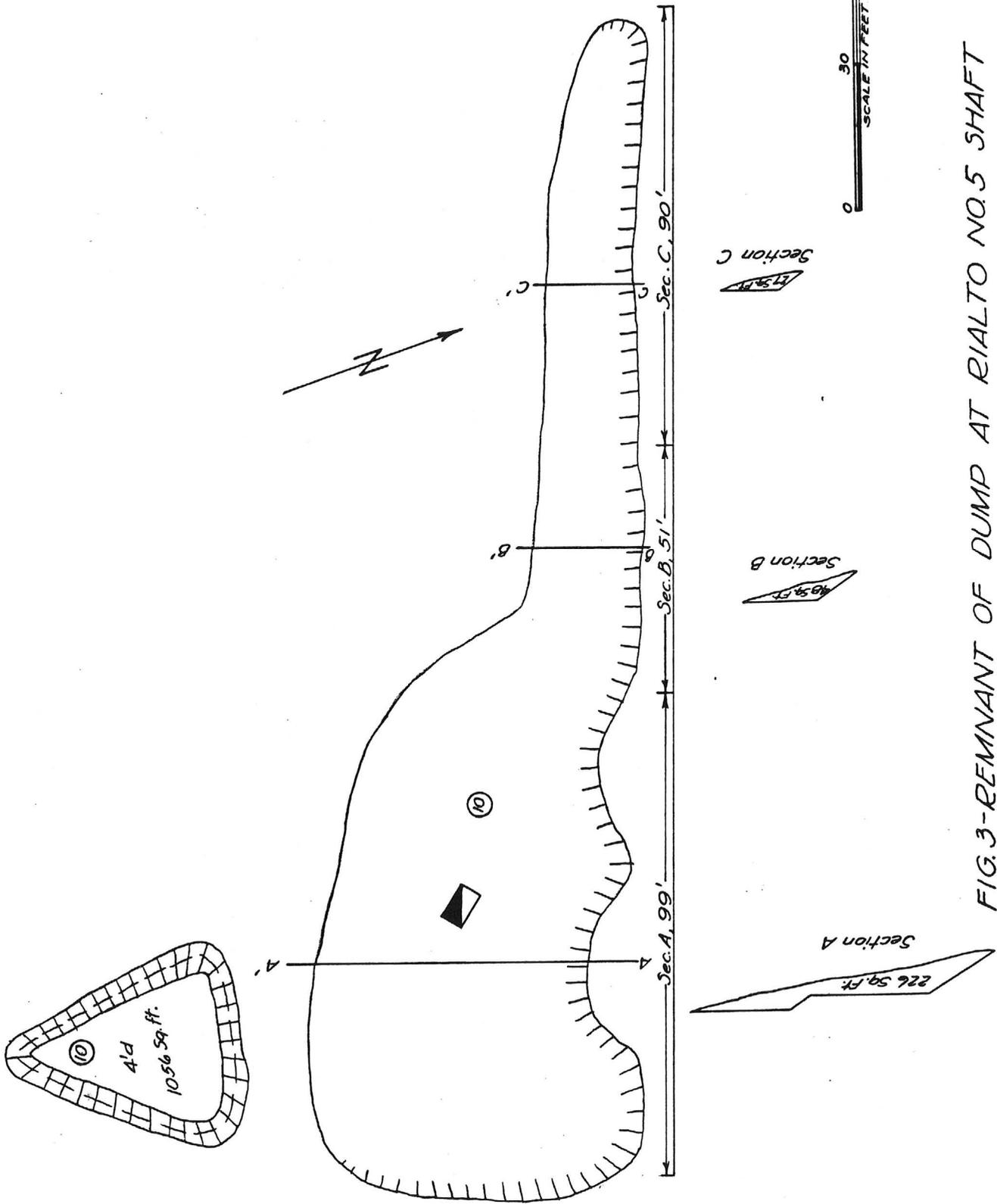


FIG. 3-REMNANT OF DUMP AT RIALTO NO. 5 SHAFT

402 T-1
 1/2 50'
 30002
 Cooke Dume

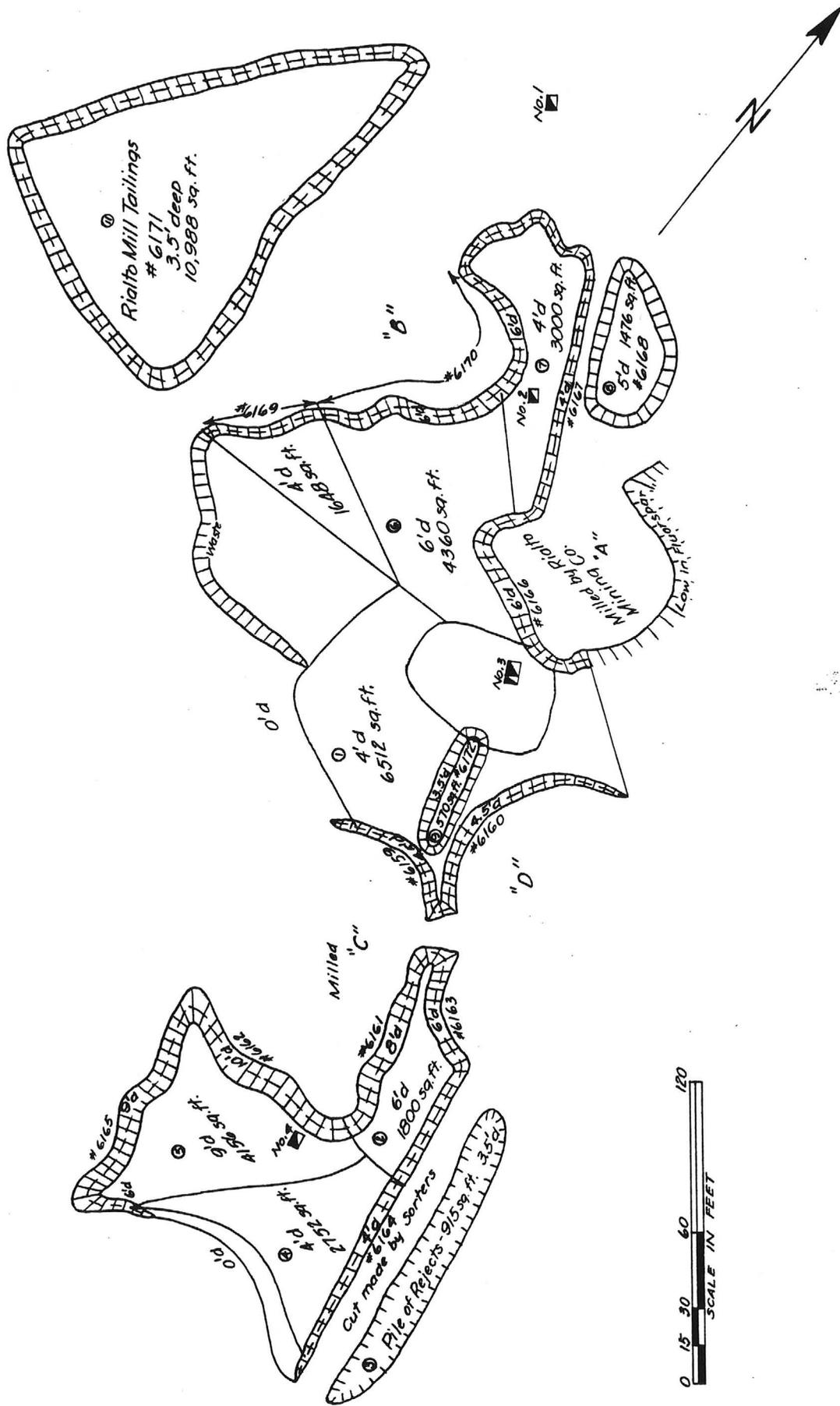


FIG. 2-BRUNTON & PACE TRAVERSE OF FLUOR SPAR DUMPS AT RIALTO SHAFTS 1 TO 4

8 *Carpenter* 20002 AOLT-
 8

HULL MINE

YUMA COUNTY

NJN WR 2/26/88: Dan Helm (card) reported that mineral collectors have been active collecting at the Hull (file) Yuma County off of the new incline at about the 200' level. The minerals collected include fluorite, barite, wulfenite and cerusite on galena.

RIALTO GROUP (HULL MINE)

YUMA COUNTY

CJH WR 2/13/80: Mr Rud is also working the Castle Dome Mine, 45 miles NE of Yuma in the western foothills of the Castle Dome Mountains, Yuma County.. They are reworking dumps with a Deister mill at the rate of 10 t/hr and shipping concentrates (40 t/month) to ASARCO El Paso. The mill feed reportedly runs 7% Pb, 3½ oz. Ag/t. and 25% fluorspar. The concentrates run 55-57% Pb, 30 oz. Ag. The Hull shaft is being rehabilitated to the 400' level. A wooden headframe is now in place but they will replace it with steel and install a 100 hp hoist. Underground production, hopefully, will start in March or April. The mine was last worked in 1951. Stoping was 5-16' wide.

MG WR 12/18/81: Discussed Contract Mining Corp., P.O. Box 5840, Yuma, AZ 85364, with Mr. David Knight, the Treasurer. Contract is currently operating the Hull mine (Yuma County). They have completed a decline at the mine and are planning to ship lead-silver concentrates to ASARCO. They are stockpiling fluorite. They are looking for other mine properties to manage.

RRB WR 5/7/82: In the company of Ken Phillips visited the Hull Mine in Sections 13 and 14, T4S R23W. The mine, operated by the Contract Mining Corporation, 661 E. 32nd. Yuma, AZ phone 726-9000.

KAP WR 5/27/83: Owen Lundberg reported Contract Mining Company has shut down their underground development program and mill at the Hull Mine in Yuma County. He went on to explain that they have spent their development budget as planned. Low silver prices have put additional work on hold. The mill, change room etc. is still on site with a watchman.

NJN WR 8/26/83: Dave Knight with Contract Mining reported the Hull Mine, Yuma County is shutdown now, but will reopen by October.

NJN WR 9/21/84: David Knight with Contract Mining, 661 E. 3rd St., Suite D, Yuma (mail adress- P O Box 5840) reported that the Hull Mine (Rialto Group, file) is still owned by Dome Ventures Ltd. Partnership. Contract Mining Corp. remains general partner and operator. The mine and mill have not operated during the past year. The possibilty exists that ownership of the property may change soon. If so, the mine may then reopen.

Mineral Building, Fairgrounds

Phoenix, Arizona

HULL MINE FILE

1. Information from: Field visit with Doug Haught, Mill Superintendent
Address: _____
2. Mine: Hull Mill * 3. No. of Claims - Patented _____
*SEE ACCOMPANYING REPORT OF HULL MINE VISIT. Unpatented _____
4. Location: _____
5. Sec. NW 25 Tp. 4S Range 19W 6. Mining District Castle Dome, Yuma County
7. Owner: _____
8. Address: _____
9. Operating Co.: Contract Mining - Phone 726-9000
10. Address: P.O. Box 5840, Yuma, Arizona 85364
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Lead, silver, fluorspar 14. No. Employed: 7
15. Mill, Type & Capacity: Gravity
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate 40-45 tpd.
17. New Work Planned: Continued operation. Currently running development rock which averages 1-2% lead and 20-25 tr.oz of silver per ton of lead. Concentrates run 65-75% Pb.
18. Misc. Notes: Mill has been running for 4 years. Mill consists of jaw crusher, 3 x 8 Marcy rod mill, 3 deck Deister tables and associated pumps, classifiers, conveyors, etc.
Development rock which contains visible galena is run through the mill. Between 500 & 1500 pounds of lead in galena concentrate is produced per shift.
One man is stationed on crusher feeder belt to remove large pieces of barren rock. Approximately 8 tons of barren rock are discarded per shift. The crusher is run intermittently. Most of the old dumps in the area have been run through the mill. Lead concentrates are shipped to ASARCO at El Paso. Table midling carry considerable fluorspar and are being stockpiled. Some of the midlings are rerun when no suitable rock is available from the mine.

-continued-

Date: May 6, 1982

(Signature)

Ken A. Phillips

Ken A. Phillips

(Field Engineer)

cc: Tucson Office

Continuation of Report on

Hull Mill by K. Phillips

5/6/82

-2-

The remains of a cyanide heap leach operation are still on the property. This was reported to have been an experiment. The method was proven to not be economical for recovery of silver from the Hull mine's lead-silver ore.

ARIZONA DEPARTMENT OF MINERAL RESOURCES

MILS 19

Mineral Building, Fairgrounds

Phoenix, Arizona

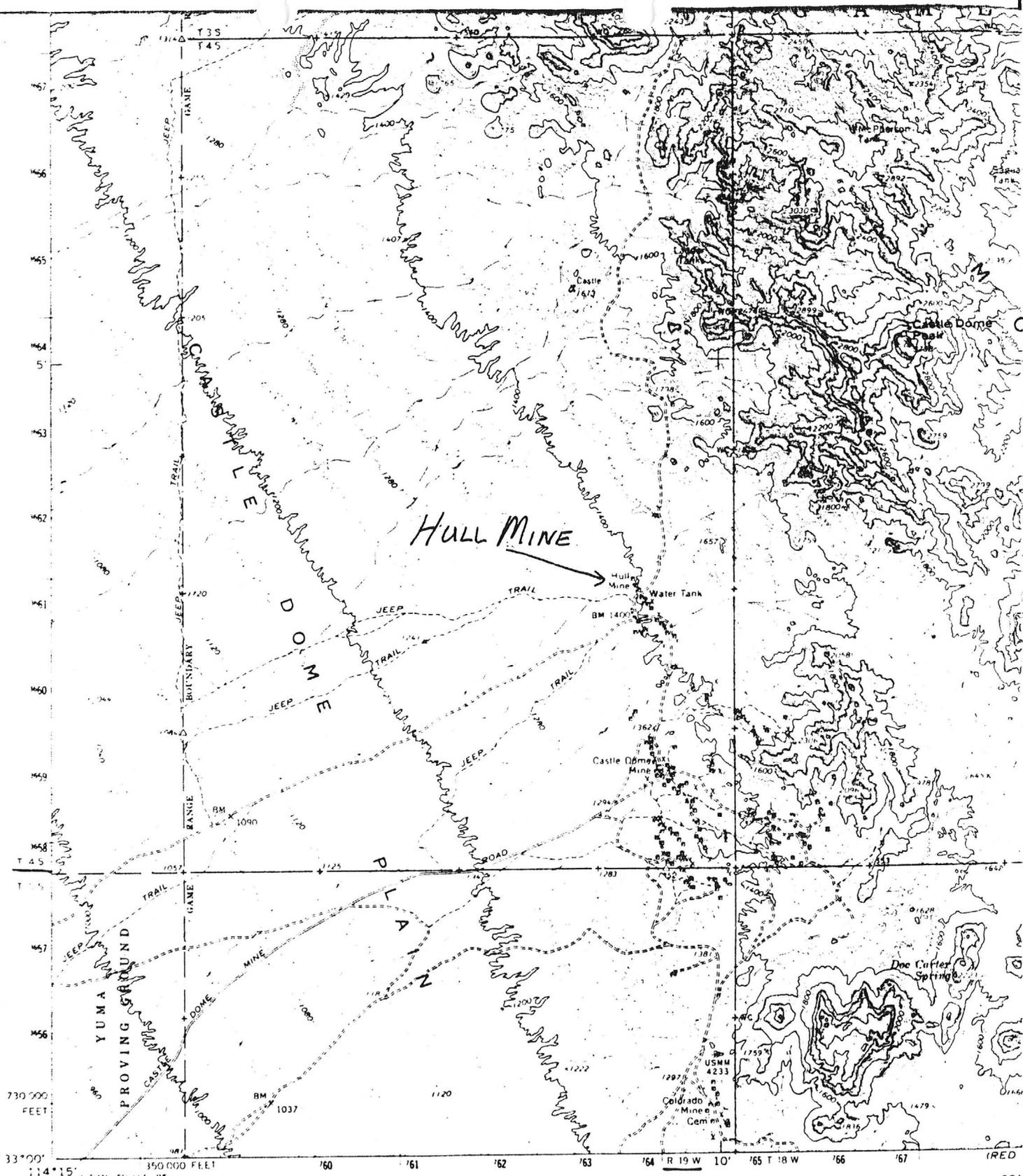
- 1. Information from: Field Visit with Al Pinkerton, Mine Supt. Contract Mining Co.
Address: _____
- 2. Mine: Hull 3. No. of Claims - Patented _____
Unpatented _____
- 4. Location: See attached portion of Castle Dome Mtn. Ariz. 15' Quad
- 5. Sec SW 24 & NW 25 T_P 4S Range 19W 6. Mining District Castle Dome, Yuma County
- 7. Owner: John Rud
- 8. Address: _____
- 9. Operating Co.: Contract Mining Company - Phone 726-9000
- 10. Address: P.O. Box 5840, Yuma, Arizona 85364
- 11. President: _____ 12. Gen. Mgr.: Jim Barker
- 13. Principal Metals: Lead, Silver, Fluorspar 14. No. Employed: 24
- 15. Mill, Type & Capacity: See report of visit with Doug Haught, Mill Super.
- 16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (Development) (e) Rate _____ tpd.
- 17. New Work Planned: Continued underground development work on three shifts.
Total advance is 20-30 feet per shift.
- 18. Misc. Notes: All equipment is rubber tired. Haulage between levels is done on
12° declines. Headings are 10'x 10'. Some development rock is milled.
Ore cutoff grade from stopes is planned for 6% Pb.
Some high grade stopes are expected to run 38% Pb.

Date: 5/6/82

Ken A. Phillips
(Signature)
Ken A. Phillips

(Field Engineer)

cc: Tucson Office



Mapped, edited, and published by the Geological Survey

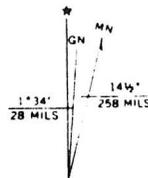
Control by USGS and USC&GS

Topography by photogrammetric methods from aerial photographs taken 1962. Field checked 1965

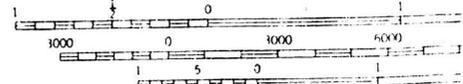
Polyconic projection 1927 North American datum
 10 000 foot grid based on Arizona coordinate system, west zone
 1000 meter Universal Transverse Mercator grid ticks, zone 11, shown in blue

Where omitted, land lines have not been established

(LAGUNA) 3149 IV



UTM GRID AND 1965 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



CONTOUR DATUM IS

CASTLE DOME MTNS 15' ARIZONA QUADRANGLE

THIS MAP COMPLETES WITH N FOR SALE BY U.S. GEOLOGICAL SURVEY, DEN A FOLDER DESCRIBING TOPOGRAPHIC N

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Hull Mine (Rialto) Date Sept. 9, 1959

District Castle Dome, Yuma County Engineer Lewis A. Smith

Subject: As reported by J. S. Mahood, Box 1310, Yuma, Arizona

J. S. Mahood is the principal owner and he lives at the mine. (J. Holmstead is main partner.) (same address as Mahood)

Property: 9 patented claims

Work: 9 shafts, the principal one being nearly 400 feet deep. Most are shallower, being between 45 and 300 feet. About 3000 feet of lateral work on 3 levels was done in the past. Some years back the mine was unwatered and repaired by J. Holmstead, one of the partners. Part of it is now under water. Reserves were reported by Holmstead to be appreciable.

Minerals: Lead (galena and anglesite) Fluorite, and Silver.

Geology: The area is composed of well bedded dense gray shale, limestone and sandstone all cut by diorite porphyry dikes and small masses. The surface, over much of the area) is covered by a mantle of gravels of recent vintage. The topography is one of rolling hills of low relief intricately dissected by washes of low relief. According to the Arizona Bureau of Mines "Arizona Zinc and Lead Deposits" Part II, Bulletin 158 (Geological Series 19) pp 111-112, the principal vein which follows a fault zone in dense gray slate, strikes approximately N 30° W and dips 65-75° NE. The vein outcrop is traceable by a band or streak of fluorite and calcite, together with local masses of partly oxidized galena. Principal wall rock alteration consists of sericite and less secondary quartz and chlorite.

The Bulletin gives much further information on the historical aspects and work.

According to Mahood first work was done as early as 1867 when J. Brown sank a shaft and did some lateral work. In the 1880s argentiferous galena ore was mined and shipped. It was relocated in 1917 by Kensert who up to 1919 shipped sorted ore (20 tons) which averaged 46% Pb and 30 oz. silver. (Lead at that time was 3¢ per pound so that little was realized on the shipment.) A small concentrating plant was worked briefly during World War II.

RAY HART 4/1970

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Rialto Claims ^{/adjoins} (Old Castle Dome Mine) Date May 5, 1959
District Castle Dome Mountains District, Yuma Co. Engineer Lewis A. Smith
Subject:

Claims: 9 patented (old Hull interests)

Owner: J. S. Mahood, Box 1310, Yuma, Arizona

Minerals: Lead, silver, fluorite

Present Status: Idle -- because of low lead price.

Reports: Mr. Mahood will send in a Mine Owner's report. The preceding data was furnished by Mr. Mahood.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

TYPE NO. 1

PRODUCTION POSSI-
BILITY SURVEY

Mine RIALTO GROUP

Date September 23, 1942

District Castle Dome, Yuma Co.

Engineer Elgin B. Holt

Subject:

PRODUCTION POSSIBILITY

OWNER: RIALTO MINING CORPORATION; Dr. A. G. Hull, Pres., 802 First National Bank Bldg., Joplin, Missouri; Sam Ashe, General Manager, Box 215, Picher, Oklahoma; A. E. Fries, Caretaker, Yuma, Arizona.

METALS: Lead and silver.

LOCATION

Property is located in the Castle Dome Mining District, Yuma County, Arizona, about 45 miles northeast of Yuma, on the west side of the Castle Dome Mountains, and adjoins the Castle Dome group on the north.

HISTORICAL

The Castle Dome lead mines were discovered by Americans and Mexicans prior to 1860; and the Castle Dome Mining District was organized in 1863. Operations in this area has been carried on intermittently since that time; total production has amounted to around \$4,000,000 in silver-lead values, mainly lead. Title to the Rialto group, consisting of 16 patented claims was acquired by the Rialto Mining Corporation during 1915. This company cleaned the old mine workings out and did considerable exploratory work, exposing considerable new ore reserves. But since around 1918 this group has remained closed down. The Rialto Mining Corporation has for years owned and operated large zinc-lead holdings in the Picher area of Oklahoma; but this corporation has made no attempt to put the group in question, located at Castle Dome, into production; so it would seem that the main idea of the owner of this corporation, Dr. Hull, is to hold the Rialto group as a reserve. In other words, the Rialto Corporation has ample funds with which to operate this property, if and when it sees fit to do so.

VEINS - WORKINGS

The Rialto group is developed by 17 shafts from 100' to 575' deep, all on the main vein, which is from 2' to 6' wide, and by several thousand feet of drifts on the vein. Also, there are three other parallel veins which have only been surfaced for lead-silver ores. Again, there are a number of lead-silver bearing stringers, the whole forming a mineralized zone around one-half mile wide and traceable on the surface for around 5 miles. On this zone are located three or more important groups of lead mines, aside from the Rialto property, on which reports are being prepared by this Department.

ORE RESERVES

At the time of visit, September 17, 1942, Mr. Fries stated that he had no data at the mine concerning dumps, ore reserves in the mines, assay maps, assays, Smelter returns on ore shipments, etc. That all such data is now in the files of Mr. Ashe, in Picher, Oklahoma. From what I could gather,

however, from others, there are from 10,000 to 15,000 tons of surface dump material, plus around 40,000 tons of ore blocked out in the mines of this property, that should average from 6 to 9 per cent lead and possibly 7 ounces silver per ton.

PROBLEMS

The outstanding problem, as I see it, at this property, is absentee ownership. People residing in Yuma state that the Rialto Company, which has ample operating money, as stated, is merely holding this property as a reserve of lead ore, to be exploited at some future date, suitable to the convenience of the owning company. Hence, I cannot see how any reasonable suggestion can now be made with a view to getting operations under way at this property, although it is rumored in Yuma that the said owners are planning to resume operations soon.

MINERAL SPECIMEN FOR DEPARTMENT OF LIBRARY AND ARCHIVES

K 102

Specimen No. Flu-2, collected by Mulford Winsor Date July, 1949
 (Wrap each specimen, or place in a substantial bag, separately, with a number identical with the number on this card)

file

Name of ore Fluorspar Name of mine or claim Rialto

Minerals contained _____ Group Castle Dome group

District Castle Dome

Gangue _____ County Yuma

Depth at which taken 400 ft. Location (distance and direction by highway from what town) 33 miles from Gila City

Approximate mineral content (in terms of average per ton): Owner of property Dr. Hull

Operator _____

Quantity or %	Value	Mine active or inactive <u>inactive</u>
---------------	-------	---

Copper _____	\$ _____	If inactive, when operated _____
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Gold _____	_____	Specimen presented by _____
------------	-------	-----------------------------

Silver _____	_____	Notes: _____
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_____	_____	_____
-------	-------	-------

_____	_____	_____
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_____	_____	_____
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_____	_____	_____
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If more space is desired for notes, use other side

Specimen is 216 now in the ADMR Museum, - See K number 8.0 x 7.0 cm

