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PRINTED: 03/05/2003

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: GYPSUM CITY

ALTERNATE NAMES:

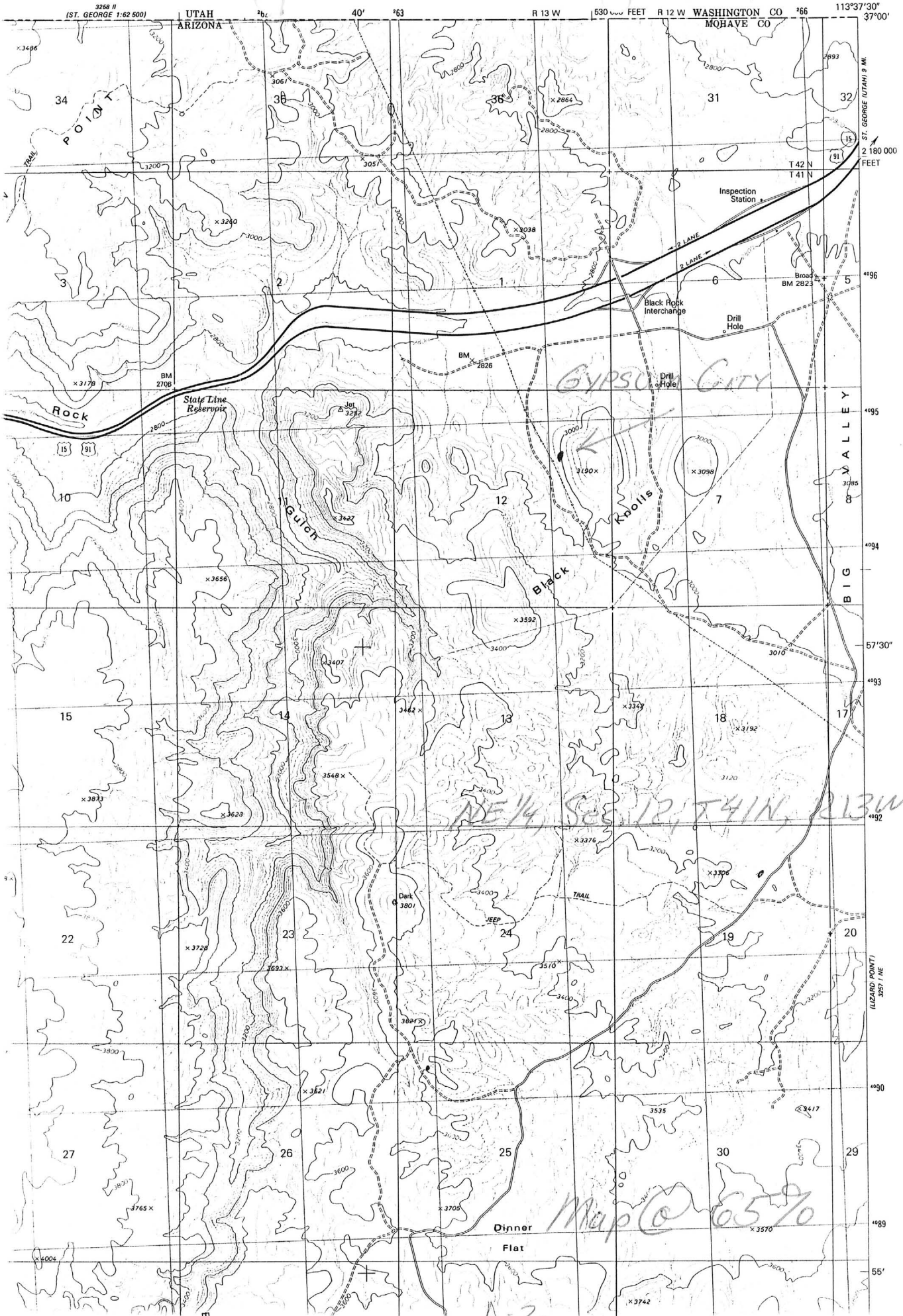
MOHAVE COUNTY MILS NUMBER: 785

LOCATION: TOWNSHIP 41 N RANGE 13 W SECTION 12 QUARTER NE
LATITUDE: N 36DEG 58MIN 20SEC LONGITUDE: W 113DEG 38MIN 55SEC
TOPO MAP NAME: PURGATORY CANYON - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:
GYPSUM

BIBLIOGRAPHY:
ADMMR GYPSUM CITY FILE



GYPSUM CITY

MOHAVE COUNTY

RRB WR 2/22/85: Carl Freeberg of Zonah Corp., P O Box 850, St. George, Utah 84770, was in the office to get acquainted and check the file on the Baxter Gypsum Deposit. He reports that Zonah has acquired the property and is getting set up to operate. they currently have markets in Los Angeles and the cement plant in Victorville to which they will ship a 2" sized product. They expect to develop a market in Cedar City, Utah after they get into production. The only processing currently planned is crushing and screening.

NJN WR 10/24/86: James Mott, State mIne Inspector's office, reports that Zonah Corp (c) is in litigation over title to their portion of the Baxter Gypsum Deposit (f) Mohave County. thus, they are not currently in production, but do have some equipment on site.

NJNWR 4/15/88: Don Mezler of Pentarcos reports that he owns 8% of black Rock Gypsum Mohave County. He reports that the effort 2 years ago to produce pharmaceutical gypsum was a total failure. Due to attempts by some to keep production costs very low, over 200,000 tons of material was drilled and broken but unsalable due to contamination by two, 1' thick hematite zones. The contamination by the hematite was so bad they have not been able to sell the material even as wallboard grade.

COMPLETE AND MAIL TO

STATE MINE INSPECTOR STATE MINE INSPECTOR
1616 WEST ADAMS, SUITE 411
PHOENIX, ARIZONA 85007-2627 MAR 28 1989

FOR OFFICE USE ONLY

START-UP NUMBER 94316081
STATE NUMBER 091116
DEPUTY NUMBER Hamm
NEW ☒ MOVE ☐

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with the Arizona Revised Statute, we are submitting this written notice to the Arizona State Mine Inspector of our intent to start ☒ , stop _____ , move _____ an operation.

Please check the appropriate boxes: Contractor ☐ , Owner ☐ , Operator ☒ , Open Pit Mine ☒ ,
Underground Mine ☐ , Mill ☐ , Quarry ☐ , Aggregate Plant ☐ , Hot Plant ☐ , Batch Plant ☐ ,
Smelter ☐ , Leach Plant ☐ .

If this is a move, please show last location: _____

If you have not operated a previously in Arizona, please check here: _____ If you want the
Education and Training Division to assist with your mine safety training, please check here: _____

If this operation will use Cyanide for leaching, please check here: _____

COMPANY NAME: DG Jones & Son Co.

DIVISION: _____

MINE OR PLANT NAME: Copper City TELEPHONE: 801 673 8367

CHIEF OFFICER: Doug Jones

COMPANY ADDRESS: PO Box 2233

CITY: St George STATE: Ut ZIP CODE: 84777

MINE OR PLANT LOCATION: (Include county and nearest town, as well as directions
for locating property by vehicle: Blackrock Exp. I 15 1 Mi. So.

TYPE OF OPERATION: Crushing PRINCIPAL PRODUCT: Copper

STARTING DATE: Nov 13/89 CLOSING DATE: _____

PERSON COMPLETING NOTICE: Doug Jones TITLE: President

RECEIVED

APR 12 1989

STATE MINE INSPECTOR

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

FIELD VISIT AND INTERVIEW

1. Information from: Don Cecala, Western Gypsum
Address: P. O. Box 850, St. George, Utah 84770
2. Phone: (801) 628-3916
3. Mine: Gypsum Mine
4. ADMMR Mine File: Gypsum City
5. County: Mohave
6. MILS Number:
7. District: (mining) or (mineral)
8. Township: T 41N Range: R 13W Sec(s): NE $\frac{1}{4}$, Sec. 12
9. USGS Topographic Map: Purgatory Canyon 7.5
10. Location (descriptive):
11. Number of Claims: Patented
Unpatented
12. Owner(s): (if different from above) Western Gypsum
13. Address:
14. Operating Company: Western Gypsum
15. Pertinent People and/or Firm:
16. Commodities: Gypsum
17. Operational Status: Past producers - partially reclaimed
18. Summary of information received, comments, etc.:

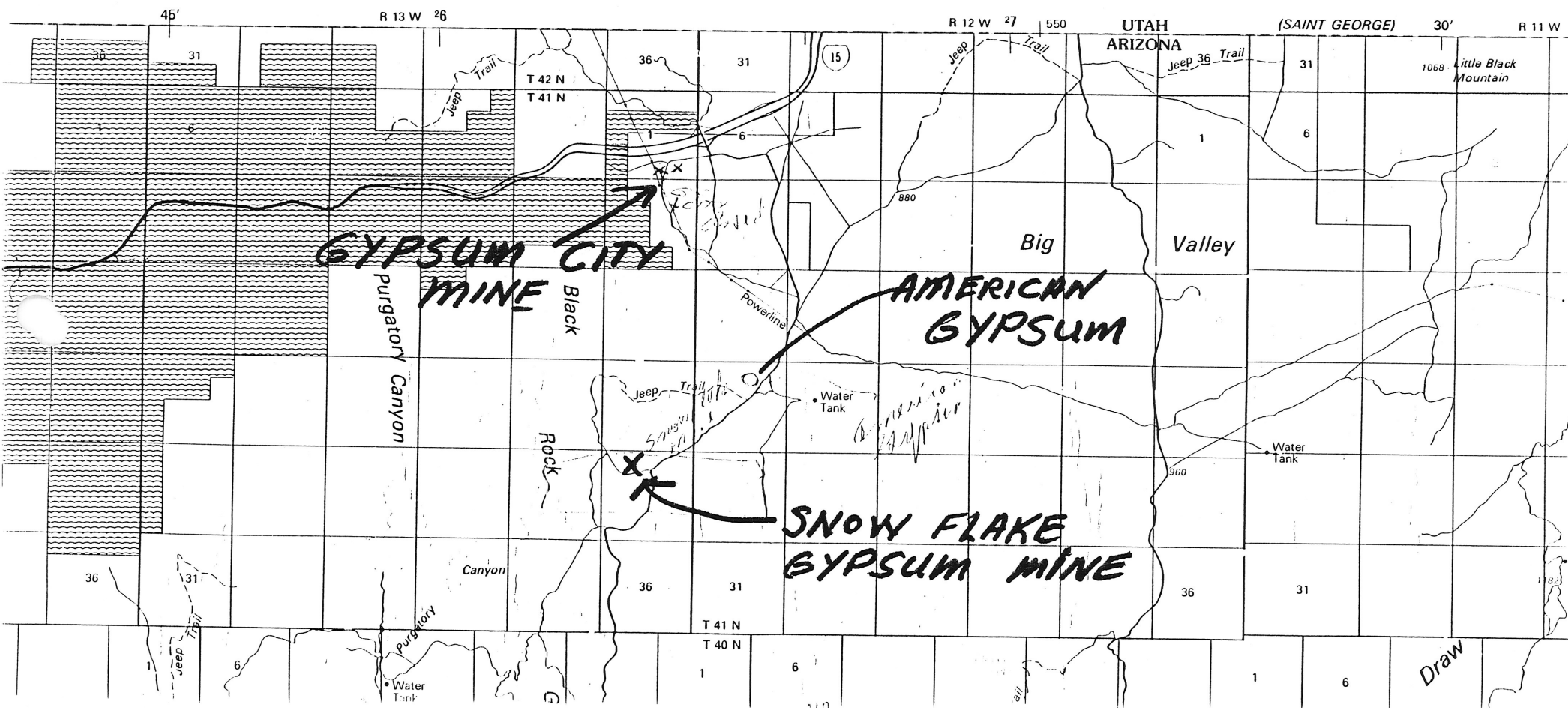
Don Cecala reported that the Gypsum City quarry is used by Western Gypsum as a truck and equipment storage and maintenance site and for fuel storage. The pit has been reclaimed.

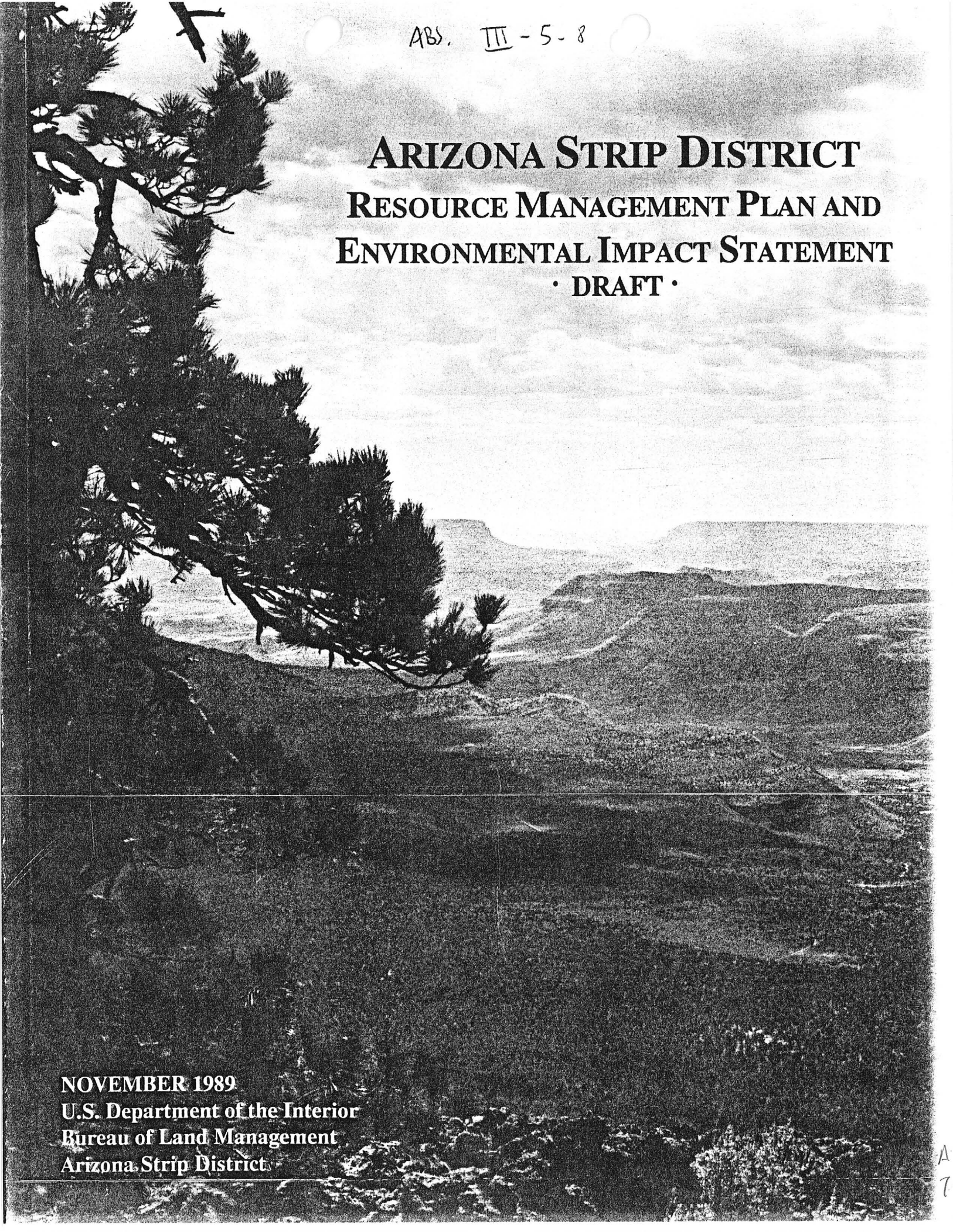
The holdings of American Gypsum Company's Gypsum City Placer Mine have been bought by Western Gypsum.

Date: August 10, 1990

Ken A Phillips

A-6





ARIZONA STRIP DISTRICT RESOURCE MANAGEMENT PLAN AND ENVIRONMENTAL IMPACT STATEMENT • DRAFT •

NOVEMBER 1989
U.S. Department of the Interior
Bureau of Land Management
Arizona Strip District

grams per tonne and occurs in the alluvial gravels along the Beaver Dam Wash. Exploration for these gold deposits is taking place immediately north of the Arizona Strip District in Utah (Spooner, 1988). Based on the geologic environment, the inferred geologic processes, and reported occurrence of gold in this area, the alluvial material along Beaver Dam Wash has a moderate potential for the occurrence of gold. Gold exploration is occurring although development potential is speculative at the present time.

Breccia pipe related precious and base metal deposits are known to occur along the lower Grand Wash Cliffs and Virgin Mountains. These deposits reportedly contain copper (up to 23 percent), silver (up to 10 ounces/ton), and relatively minor amounts of lead, zinc, uranium, and gold (Keith and others, 1983). Germanium and Gallium are also known to occur in the Apex deposit in Utah (Bernstein, 1986). It is possible that these elements could occur in breccia pipes located along the lower Grand Wash Cliffs and Virgin Mountains. Based upon the geologic environment, inferred geologic processes and mines in these areas, they have been rated as having a high potential for the occurrence of metallic mineral resources (Map III-3). The available data provide abundant direct and indirect evidence to support the existence of the resource.

URANIUM

Exploration for and development of uranium resources are currently the most active mineral related operations on the district. There are two mines in operation, three in various stages of development, and three that have been closed and reclaimed. These mines lie to the north and west of the Kanab Creek drainage. The uranium occurs in collapse features known as breccia pipes (Figure III-1).

Breccia pipes in the Arizona Strip originate in Red-wall Limestone and form collapse features in overlying rocks as young as the Chinle Formation. Uranium mineralization occurs in the Supai through Toroweap Formations (Krewedl and Carisey, 1986). Eight deposits of uranium, presently economical to develop, have been identified by Energy Fuels Nuclear in the Kanab Creek area. These deposits are almost exclusively uranium bearing, though other metals are known to exist. Active exploration programs have been undertaken by several companies in search of additional deposits on the Arizona Strip.

Sandstone type uranium deposits are known to occur in the Petrified Forest and Shinarump members of the Chinle Formation. Uranium was produced from deposits

in these members in the 1950s (Keith and others, 1983; Scarborough, 1981; Baillieu and Zollinger, 1980). Approximately 1,524 tons of uranium ore averaging 0.201 percent U308 was produced from the Vermillion Cliffs deposits between 1954 and 1957 (Scarborough, 1981). These deposits are located within the present day Vermillion Cliffs Wilderness Area. Uranium was also produced from the Rainbow Hills mining district though no production figures are available. Based on the geologic environments, inferred geologic processes and numerous mines in these areas; they have been rated as having a high potential for the occurrence of uranium resources (Map III-4). This rating is supported by abundant direct and indirect evidence.

GYPSUM

On the Arizona Strip District, gypsum occurs in the Pakoon Dolomite, the Seligman and Woods Ranch members of the Toroweap Formation (Nielson, 1986; Hintze, 1986; Moore, 1972), the Harrisburg Member of the Kaibab Formation (Nielson, 1986; Cheevers and Rawson, 1979); and the Lower Red Member of the Moenkopi Formation (Stewart et al, 1972; Wilson, 1962). Gypsum in the Kaibab and Moenkopi formations appears to be of good quality. Based on the known occurrence of gypsum in these formations, areas overlain by the Toroweap, Kaibab, and Moenkopi Formations have a high favorability for containing gypsum. The thick gypsum deposit in the Pakoon Dolomite appears to be an isolated occurrence in the Cedar Pockets area and, as such, the Pakoon Dolomite has been rated highly favorable in that area (Map III-2). The certainty that gypsum occurs in these areas is also high, supported by abundant direct and indirect evidence.

Large gypsum deposits are found in the northwestern portion of the district around Black Rock Gulch, the north end of the Sunshine Trail and in Cedar Pockets. Operators are actively mining in two locations and another mine is currently inactive. Assays show the Cedar Pockets and Black Rock Gulch deposits to be of high quality and good potential exists for gypsum mining from these areas.

SAND AND GRAVEL

In the western portion of the district, gravel is abundant along the lower slopes of the Virgin and Beaver Dam Mountains. Here alluvial fans have formed and the gravel is expected to be unsorted but of good quality. Well sorted, good quality gravel is also expected to occur in