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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: LEMONS FLUORSPAR

ALTERNATE NAMES:

MARICOPA COUNTY MILS NUMBER: 115

LOCATION: TOWNSHIP 4 N RANGE 10 W SECTION 4 QUARTER SW
LATITUDE: N 33DEG 42MIN 43SEC LONGITUDE: W 113DEG 17MIN 53SEC
TOPO MAP NAME: LONE MOUNTAIN - 15 MIN

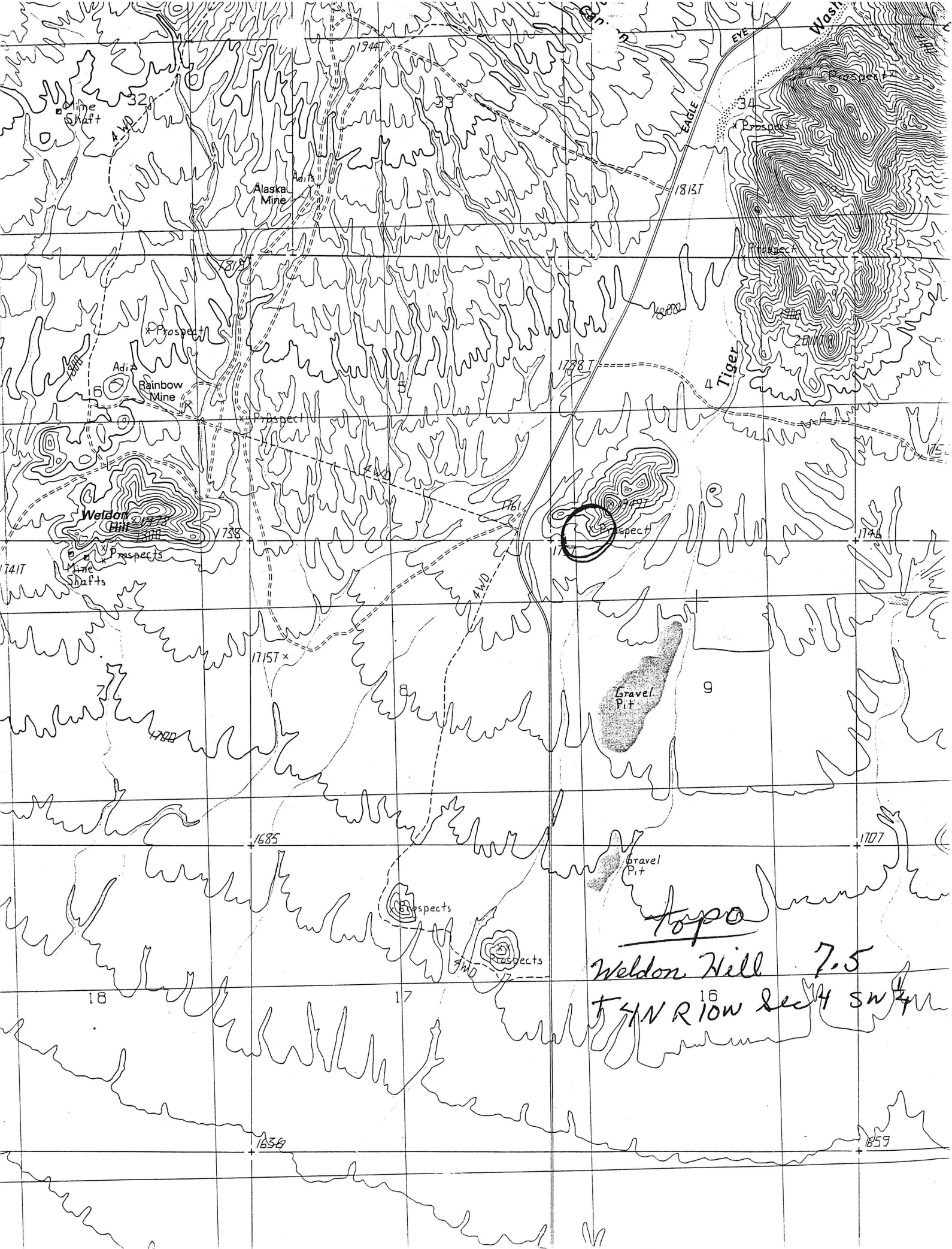
CURRENT STATUS: PAST PRODUCER

COMMODITY:

STONE MARBLE DM
FLUORINE FLUORSPAR
LEAD SULFIDE
BARIUM BARITE
VANADIUM

BIBLIOGRAPHY:

USGS LONE MTN QUAD
ADMMR LEMONS FLUORSPAR FILE
ADMMR LEMONS CLAIMS FILE



Lemons Fluorspar
Sec.4,9 T.4N., R.10W
Maricopa County

Reference: Arizona Dept. of Mineral Resources
Lemons Fluorspar (file)

Present Owner : John Lemons

Minerals: fluorspar, galena, barite, vanadium

History of the area:

The property has belonged to John Lemons since 1971, some exploration work but no production.

Geology:

limestone and quartzite enclose the four fluorspar veins which vary in width from a few inches to 1 ½ feet. They appear to be replacements along the bedding planes.

d.m.

REFERENCES

ADMR Lemons Claims (file)

MILS Sheet sequence number 0040130403

Went with John Lemons to his fluor spar prospect 23 miles southwest of Aguila. There are five unpatented claims in Sec. 4 T4N, R 10W. The rocks enclosing the four veins are limestone and quartzite. The limestone overlies the quartzite and trends N 10W, dips 30-35° NE. The fluor spar mineralization, which varies in width from a few inches to 1½ ft, appears to be a replacement along the bedding planes. At the foot of the hill the Ca F₂ is along a fracture in the quartzite trending N 70W; about 50 ft above is the lower vein in the limestone. This vein has been exposed in only one place where it is about a foot thick and is closely associated with gypsum. Perhaps twenty feet above is a six-inch vein in the limestone; then 6-8 feet further up and within four feet of the crest of the hill is another 6" - 8" vein of Ca F₂. The excavations aren't sufficient to get a satisfactory idea of the continuity of the mineralization, therefore it was suggested several more pits should be dug with this in mind. GW WR 11/22/71

John Lemons brought in some chunks of fluor spar he dug over the past holiday from his claims 23 miles SW of Aguila. GW WR 11/29/71

John Lemons came in to say he is continuing to prospect his fluor spar deposits SW of Aguila. GW WR 12/20/71

John Lemons came in to discuss his vanadinite find near his fluor spar SW of Aguila. It was suggested he send a sizeable sample to the Union Carbide Corp. mill at Rifle, Colorado. GW 1/18/72

Looked at developments at John Lemon's fluor spar prospect 23 miles southwest of Aguila. Two recent prospect holes, about 50 ft. apart on strike, reveal a 4-6 ft. gypsum bed in limestone striking N 30W, dipping 35° N 60E, containing streaks & pockets of CaF₂ from a few inches to 2 ft. in thickness. About 60 - 70 NE of upper prospect hole is a fault striking N 70W and dipping 65° East; there doesn't appear to be much displacement. About 75 ft. NW of the same prospect hole is a small diabase dike, concordant with the surrounding limestone. At the common corner to sections 4, 5, 8 & 9 T 4N - R 10W, is a recent seismograph hole and several more were being drilled along the east side of the road southerly from the section corner. One of the drillers said they (Teledyne Corp.) were drilling 100 ft. holes for Humble Oil Co. GW WR 1/19/72

John Lemons came in to talk about his fluor spar prospect southwest of Aguila where he has found a vanadium mineral associated with galena, barite and fluor spar. GW WR 1/24/72

John Lemons brought in another chunk of rock from his CaF₂ prospect southeast of Aguila, said he was about four feet deep in a hole that showed considerable fluor spar and vanadium. GW WR 1/31/72

John Lemons came in to report an assay of his wulfenite find; the sample contained 4.5% Pb, .04% Mo, 1.5 oz. Ag., Tr. Zn. No determination was made of the vanadium.

GW WR 3/17/72

, John Lemons continues to dig on his vanadinite prospect which appears to be increasing in mineralization with depth (6 ft.). GW WR 5/2/72

John Lemons brought in a chunk of rock from his latest test pit SW of Aguila. It too appeared to have some Pb and V minerals on it. This specimen came from several hundred feet from the original discovery of Pb-V minerals and is said to be about 4 feet wide. GW WR 6/12/72

John Lemons brought in several pieces of highly metamorphosed schist in which were a great number of ovate pieces of jasper, which he thought were dumortierite. This rock came from the vicinity of the Buckeye Copper mine southwest of Arlington. He has done no recent work on his fluorspar and lead-moly deposits southwest of Aguila. GW WR 8/28/72

Accompanied Max Brown to the Snowball fluorspar mine 20 miles SW of Aguila. He didn't appear overly interested in it but after seeing John Lemon's spar he thought it could be developed. GW WR 9/26/72

Went with John Lemons to his fluorspar and lead claims about 20 miles southwest of Aguila where considerably more prospect holes have been dug which reveal 6" to 1 foot veins of CaF_2 along the bedding of the limestone. It was thick and replaces a complete strata of limestone. It dips 40° NE and strikes about $N 75^\circ W$. GW WR 1/16/73

Went to John Lemon's fluorspar prospect 22 miles SW of Aguila, where John said Clyde Lemon had uncovered a 30 ft. wide exposure of the lead-fluorspar-vanadium mineralization which, after a thorough search, we failed to find. GW WR 6/9/76.

COMMODITIES BARITE/FLUORITE

ID NO. 5/8/2 #115 DATE 5/9/81

PROPERTY SUMMARY

- I. MINE NAME: UNKNOWN Lemm's Fluorspar AKA; _____
 AKA; _____ AKA; _____
 AKA; _____ AKA; _____
ON LONE MT, TOPO QUAD. - 15 min
- II. LOCATION: T4N R10W Sec(s) SW1/4 SW1/4 SEC 4 UTM; _____
 ELEV.; 1800' DIST.; BIG HORN STATE; AZ. CO.; MARICOPA
 DIRECTIONS; BARITE/FLUORITE IN SHALLOW SURFACE CUTS ABOUT 500' N45°E FROM
SW COR, SEC 4, T4N, R10W.
LAT. 33°42.7'N Map Attached / /
LONG. 113°17.9'W
- III. OWNERSHIP: Name; UNKNOWN Phone; _____
 Address; _____
 Date of Information; _____
 DBA; _____ Title Report Attached / /
- IV. PROPERTY: CLAIM POSTS INDICATE POSS VALID EXISTING CLAIMS
ALTHO NO NOTICES WERE FOUND.
 _____ Date of Property Status; _____ Map Attached / /
- V. HISTORY: First Located; UNKNOWN Operated; _____
 Remarks; _____

 _____ Report(s) Attached / /
- VI. PAST PRODUCTION: NONE - RAW PROSPECT

 _____ Schedule(s) Attached / /

- VII. WORKINGS: ONLY SHALLOW SURFACE CUTS WERE SEEN - ALTHO I DID NOT FOLLOW OUT ALL THE ROAD/TRAILS ON THE PROPERTY.
- Map Attached / /
- VIII. ^{POSS. BEDDED[?] Contact Deposit BETWEEN LS & DIABASE}
 * GEOLOGY: Deposit Type; INTRUSIVE Vein Strike; _____
 Distance; ^{DIST. BETWEEN 2 PITS} EXPOSING MIN. 75' Width; up to 1.5' exposed Dip; VARIABLE Age; _____
 Host Rock; SILICATED LS ON CONTACT Age; _____ Ore
 Control APPEARS TO BE BRECCIATION IN SILIC. LS @ upper Contact of Diabase Intrusion
 Existing Report(s) Attached / / Report Based on New Examination Attached / /
 NOTE: A CONTINUOUS BLANKET OF CALICHE COVERS THE PROSPECT - ONLY MINERALIZATION OBSERVED WAS IN PITS WHICH PENETRATED TO THE UNDERLYING BEDROCK.
- IX. MINEROLOGY: Economic Minerals; BARITE / FLUORITE (NO METALLIC MINERALS OBSERVED)
 Gossan Minerals; SOFT BLACK MN. MIN, LIMDSTAINS
 Alteration; SILICIFICATION OF LS & SOFTENING W/ clay MIN. Develop. in Diabase.
 Gangue; SIL. LS.
 Petrographic Study; _____ Report(s) Attached / /
- X. METALLURGY: _____ Report(s) Attached / /
 Method of Determination; _____ Metallurgical Reports Attached / /
 Remarks; _____
- XI. SAMPLE DATA: CHARACTER Spec. ONLY Sampling Technique; ^{SPEC.} GRAB From Dump
- Samples Taken By; Norman Eastmoore, Jr. Number of Samples; 2
 Date; 5/8/81 Assay Report(s)/Maps Attached / /
 Drilling; NO EVIDENCE SEEN Type; _____ Total Footage; _____
 When Drilled; _____ Drilling/Report Attached / /
- XII. GEOCHEMISTRY: _____ Type; _____ Type Anomalies; _____
 Report(s)/Map(s) Attached / /
- XIII. GEOPHYSICS: _____ Type; _____
 Anomalies; _____
 Report(s)/Map(s) Attached / /

* FROM AN EXPLORATION STANDPOINT -
 NOTE: THE IMPORTANCE OF THIS OCCURRENCE IS THAT IT DEMONSTRATES THE PRESENCE OF BARITE/FLUORITE MIN. IN A LIMESTONE HOST ROCK ENVIRONMENT. THIS RELATIONSHIP OFFERS PROMISE THAT BEDDED REPLACEMENT DEPOSITS CONTAINING BARITE & FLUORITE MIGHT OCCUR IN THIS VICINITY.

XIV. AERIAL PHOTOGRAPHY: _____ Photo Attached / /

XV. RESERVES: Proven; NA Calculations Attached / / Probable; _____
 Calculations Attached / / Possible; _____ Calculations Attached / /
 Total; _____ Calculations Attached / / Potential; _____
 Calculations Attached / /

XVI. ECONOMICS: Mine Life; NA Yrs. Annual Production; _____
 Capital Outlay; _____ Time; _____
 Operating Cost; _____ /Yr. _____
 Gross Annual Income; _____ DCF/ROI; _____
 Metal Prices Used; _____
 Sensitives; _____ Report(s) Attached / /

XVII. REFERENCES:

Author; _____ Title; _____
 Date; _____ Abstracted By; _____ Date; _____
 Status; _____
 Remarks; _____

Author; _____ Title; _____
 Date; _____ Abstracted By; _____ Date; _____
 Status; _____
 Remarks; _____

Author; _____ Title; _____
 Date; _____ Abstracted By; _____ Date; _____
 Status; _____
 Remarks; _____

XVIII. REMARKS:

Signed by
Norman Eastmough Jr.
5/8/81