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PRINTED: 05/30/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: POLLY ANN GROUP

ALTERNATE NAMES:

FORBIS
LUCKY GROUP
DANIELS CAMP GROUP
FLUOROSPAR PRODUCERS CORP.
STOTTS

GREENLEE COUNTY MILS NUMBER: 90

LOCATION: TOWNSHIP 7 S RANGE 32 E SECTION 9 QUARTER NE
LATITUDE: N 32DEG 50MIN 45SEC LONGITUDE: W 109DEG 04MIN 23SEC
TOPO MAP NAME: YORK VALLEY - 15 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:

FLUORINE

BIBLIOGRAPHY:

ELEVATORSKI, 1971, AZ FLUORSPAR, ADMMR P.21-3
AZBM BULL. 180, P. 349-52, 1968
AZBM CIRC. 15, P. 2-9, 1950, WILSON
AZBM BULL. 114, P. 6, 1921, ALLEN & BUTLER
ADMMR POLLY ANN GROUP FILE
USGS MAP I-1310-B
65% CAF₂ AND 25 TO 30% SIO₂ WITH 89% CAF₂
MAXIMUM GRADE

POLLY ANN MINE (Forbis mine)

Greenlee
T7S R32E Sec. 4, 9

See: "Geology of the Summit Mountains and Vicinity, Grant County, New Mexico and Greenlee County, Arizona" IN GEOLOGY FILE

Forbis, Agnes T. (Bert L.)
~~524 W. Oregon Ave.~~ 524 W. Oregon Ave.
Phoenix, Arizona 10-19-39

See POLLY ANN GROUP - Re Field Engineers Report

See POLLY ANN GROUP - Re terms for property 6-8-43

See POLLY ANN GROUP - Re supplemental gas 7-11-44

See POLLY ANN - Re Field Eng. Report 9-26-44

See POLLY ANN - Re mine lean application 10-7-44

See NEWMAN - re gas application 3-24-45

See POLLY ANN - re active mine survey 2-5-47

POLLY ANN GROUP

Fluorspar

Greenlee 6 - 1 T 6 S, R 32 E

✓ Bert L. Forbis, 524 W. Oregon Ave., Phoenix '44

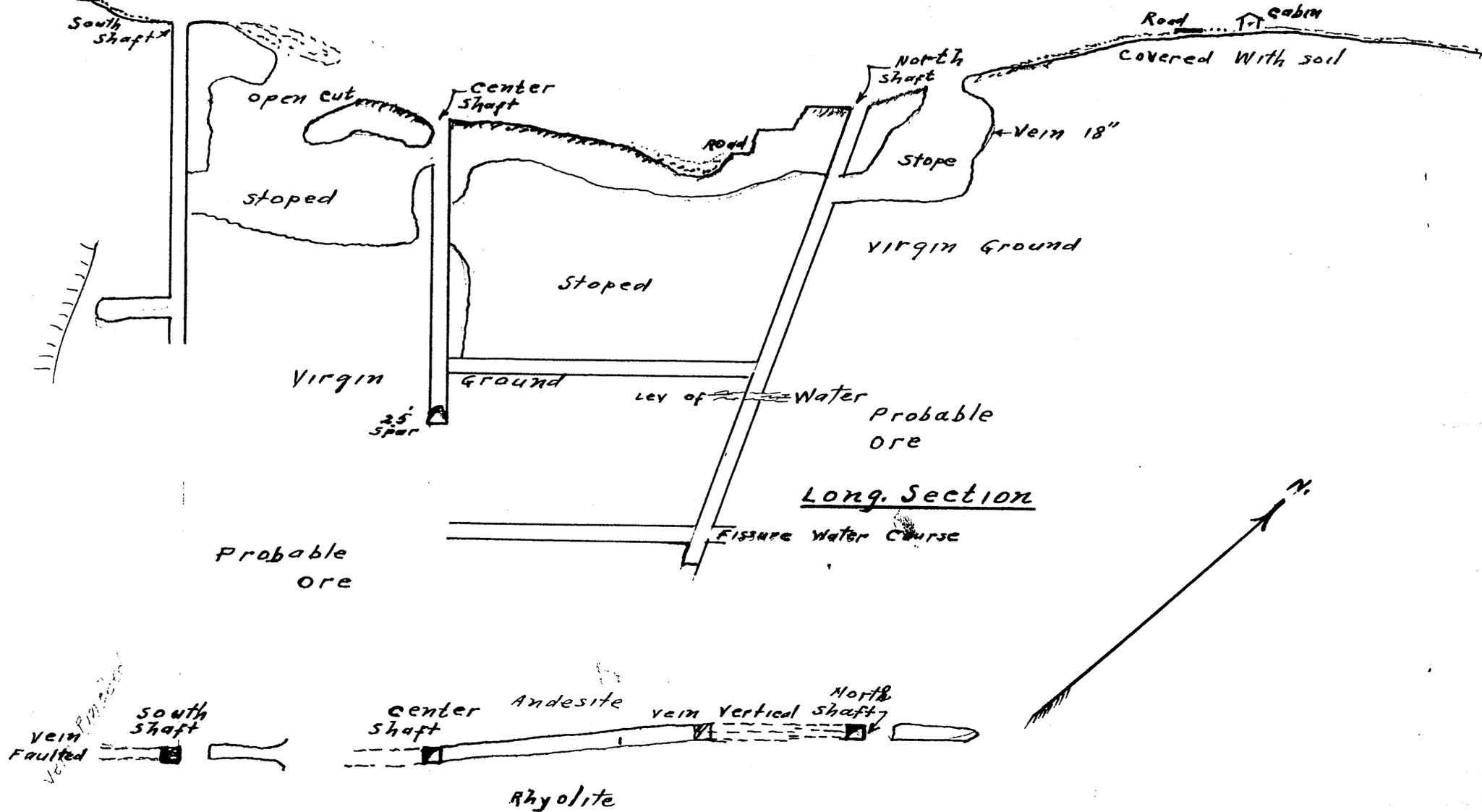
See: Duncan Fluorspar Mill (file)

See: Map I-1310-B p. 9; Mineral Deposit of the Silver City 10 x 20 Quad., NM & AZ

GREENLEE MILS INDEX #90

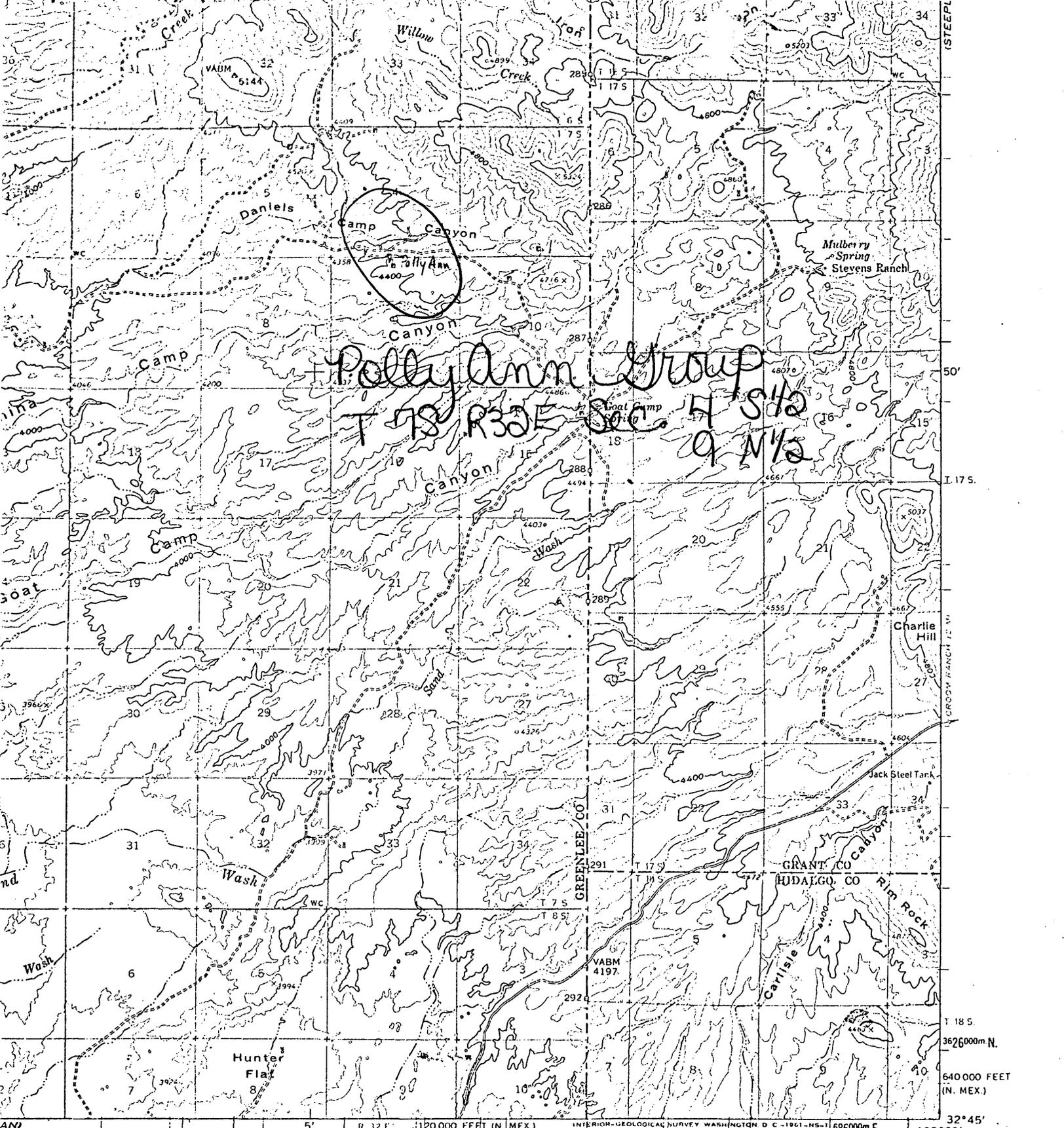
AKA: Stotts, Fluorospar Producers Corp, Daniels Camp Group, Forbis, Lucky Group

York Valley 15' map (included in file)

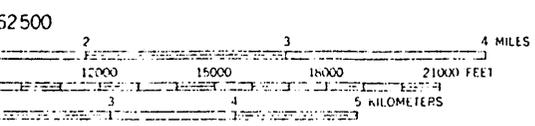


PLAN

POLLYANN FLUORSPAR
Bert L. Forbis Owner
Duncan, Arizona. Sept. 24th 1944
Dist. Clear Lake or Steeple Rock
About 12 Miles Northeast Of
Duncan
Field Notes Globe Office
Dept. Of Mineral Resources
Sept 23rd 1944 Scale 1" to 50ft



Polly Ann Group
 T 7 S R 30 E Sec 7 S 1/2
 9 N 1/2



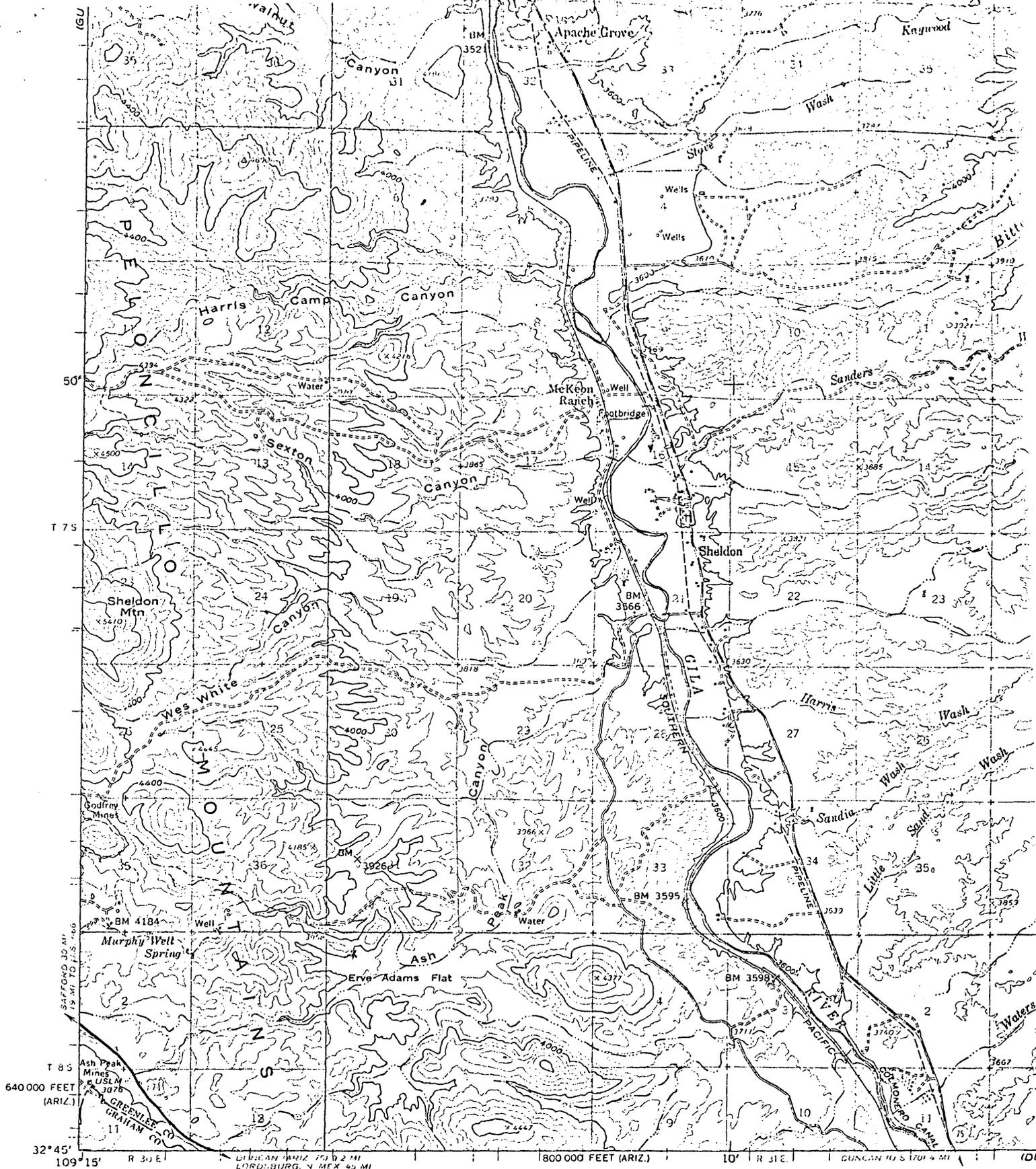
MAP ACCURACY STANDARDS
 UNDER 25, COLORADO OR WASHINGTON 25, D. C.
 AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION

Heavy duty		Light duty	
Medium duty		Unimproved dirt	
	U. S. Route		State Route

YORK VALLEY, ARIZ.-N.MEX.
 N 32 1/2 E T 7 S R 30 E



Mapped, edited, and published by the Geological Survey

Control by USGS and USC&GS

Topography from aerial photographs by photogrammetric methods
 Aerial photographs taken 1953. Field check 1959

Polyconic projection. 1927 North American datum
 10,000-foot grids based on Arizona coordinate system, east zone
 and New Mexico coordinate system, west zone
 1000-meter Universal Transverse Mercator grid ticks,
 zone 12, shown in blue

Dashed land lines indicate approximate locations
 Land lines unsurveyed in part of T. 8 S.-R. 31 E.

T 8 S
 640 000 FEET
 (ARIZ.)
 32° 45'

SAFFORD 35 MI.
 19 MI. TO S. 106

109° 15' R. 31 E.

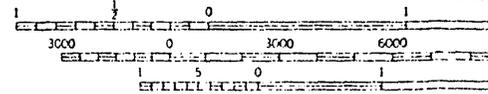
GREENLEE CO. ARIZ. T. 8 S. R. 31 E.
 COCHISE CO. N. MEX. 45 MI.

1800 000 FEET (ARIZ.)

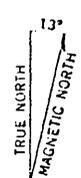
10° R. 31 E.

CUNCAH 10 S. 170° 4 MI.

SCALE



CONTOUR IN
 DATUM IS A



APPROXIMATE MEAN
 DECLINATION, 1959

THIS MAP COMPLIES WITH NA
 FOR SALE BY U. S. GEOLOGICAL SURVEY, D
 A FOLDER DESCRIBING TOPOGRAPHIC M

July 11, 1944

File: 1st UEDD
2nd CEDD

War Price and Rationing Board
No. 81.7.1.
137 North Second Ave.
Phoenix, Arizona

Gentlemen:

Mr. Bert L. Forbes is a returned service man, who before he went into the armed forces was a flurspar operator near Duncan, Arizona.

He now hopes to get these properties into production again and will require supplemental gasoline.

Flurspar is a strategic requirement. We recommend he be allowed the gasoline he needs.

Very truly yours

Chas. H. Dunning
Director

CED: emz

Folly Ann

June 8, 1943

Mrs. Bert Forbis
1124 West McKenzie Drive
Phoenix, Arizona

Dear Mrs. Forbis:

I am sorry that I missed your call at the office today.

This afternoon I talked with Percy Wright and he informed me that they were ready to go ahead on your fluorspar property and were merely awaiting a decision from you as to the royalty and the methods of paying it.

Mr. Wright asked me to say that he would like to hear from you. You can telephone him at 4-5104, Phoenix.

With best wishes and kindest regards, I am

Very truly yours,

J. S. Coupal, Director

JSC:kk

Post Office Box 2283,

February 3, 1943

Subject: Inquiry Concerning POLLY ANN FLUORSPAR MINE
for Clients Calling for Either Tonnage or Properties

Mrs. Capt. Bert L. Ferbis,
1124 West Mackenzie Drive,
Phoenix, Arizona.

Mrs. Ferbis:

Thru J. S. Coupal, Director, Arizona Department of Mineral Resources, I have the above address and am making inquiry for a client who claims to be amply financed and looking for either Large Tonnage or for a Fluorspar Mine that can be taken over on a Leasing Arrangement or can be purchased outright. I believe this inquiry to be one of the few legitimate calls for FLUORSPAR, and that it will merit consideration.

I understand that Capt. Ferbis (with whose former operations at the Polly Ann I was acquainted) is now in the Army and that you are agreeable to negotiating for the right kind of a deal. Possibly a Leasing Arrangement that could be made effective until such time as Capt. Ferbis returns and is again ready to operate the Polly Ann might be the best to consider. However, these clients will be interested in an Outright Purchase, provided the property is what they want and the price thereon is right.

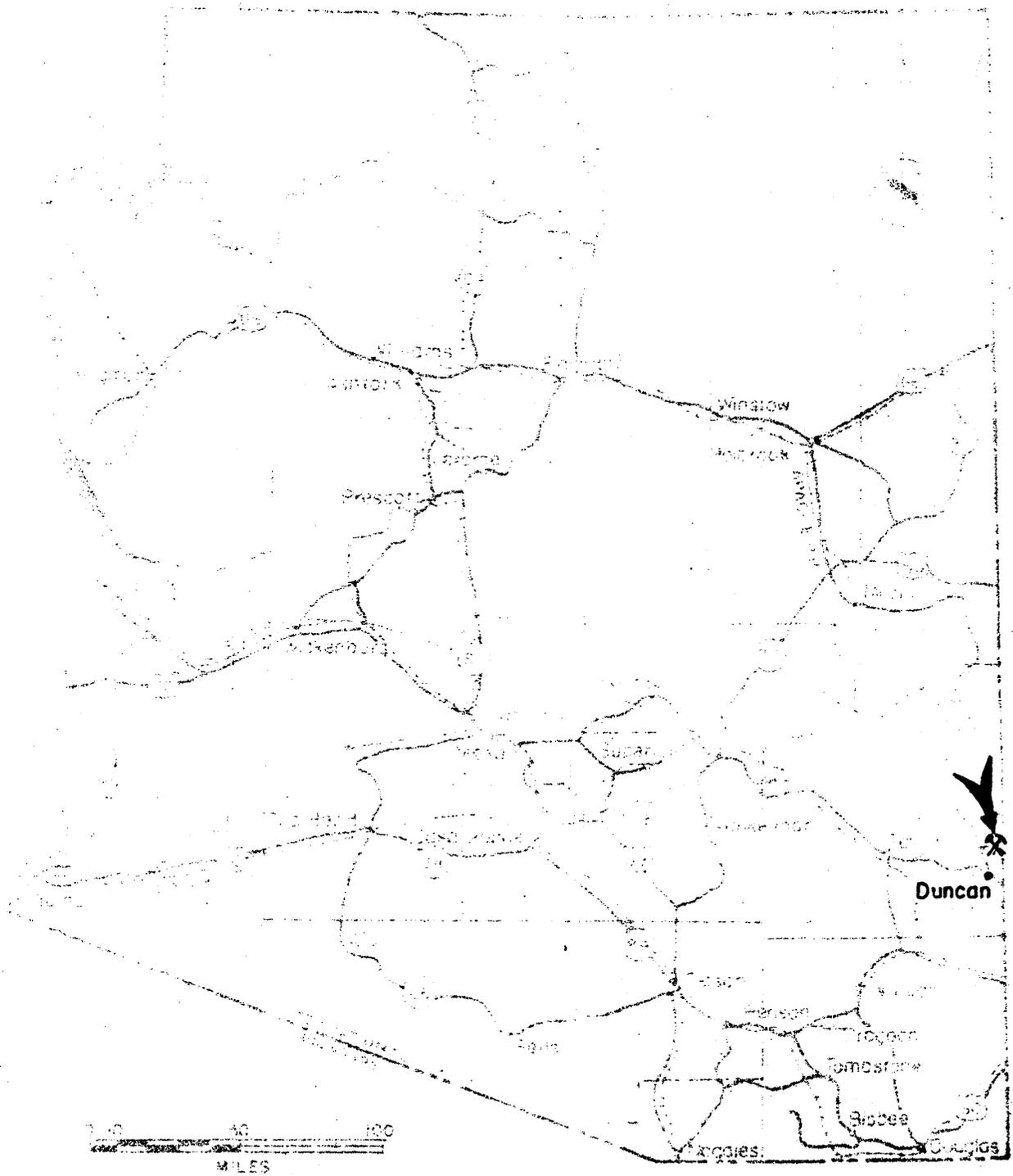
Will you, please, let me have early returns on this inquiry — this week if possible? For your convenience I enclose ready-t-mail envelope for your answer.

Thank you.

Percy E. Wright,
Consulting Engineer.

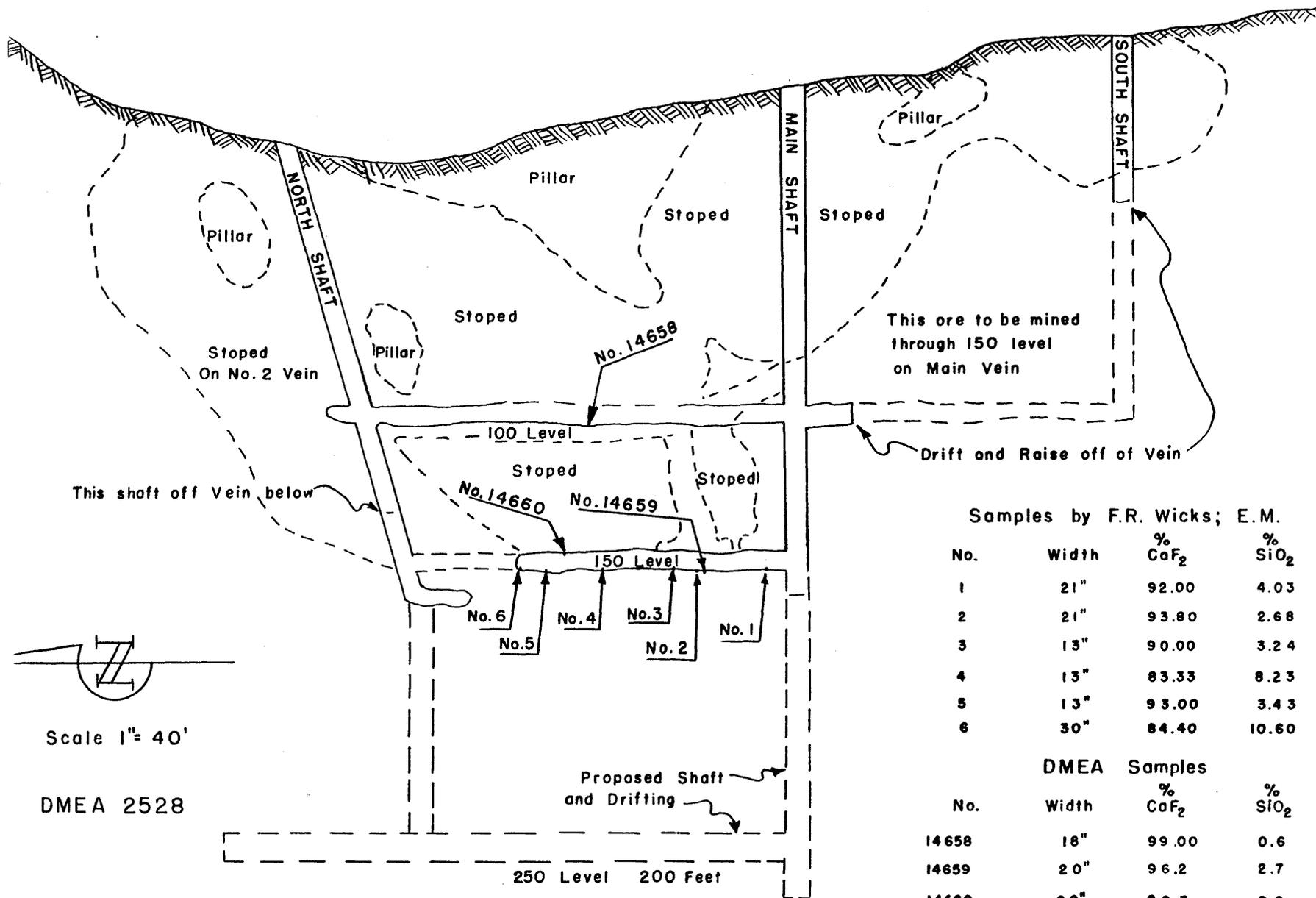
WRIGHT EXPLORATION

(Wright)



DMEA 2528

Fig. 1- Location Map, Polly Anne Fluorspar Mine
Greenlee County, Arizona



Samples by F.R. Wicks; E.M.

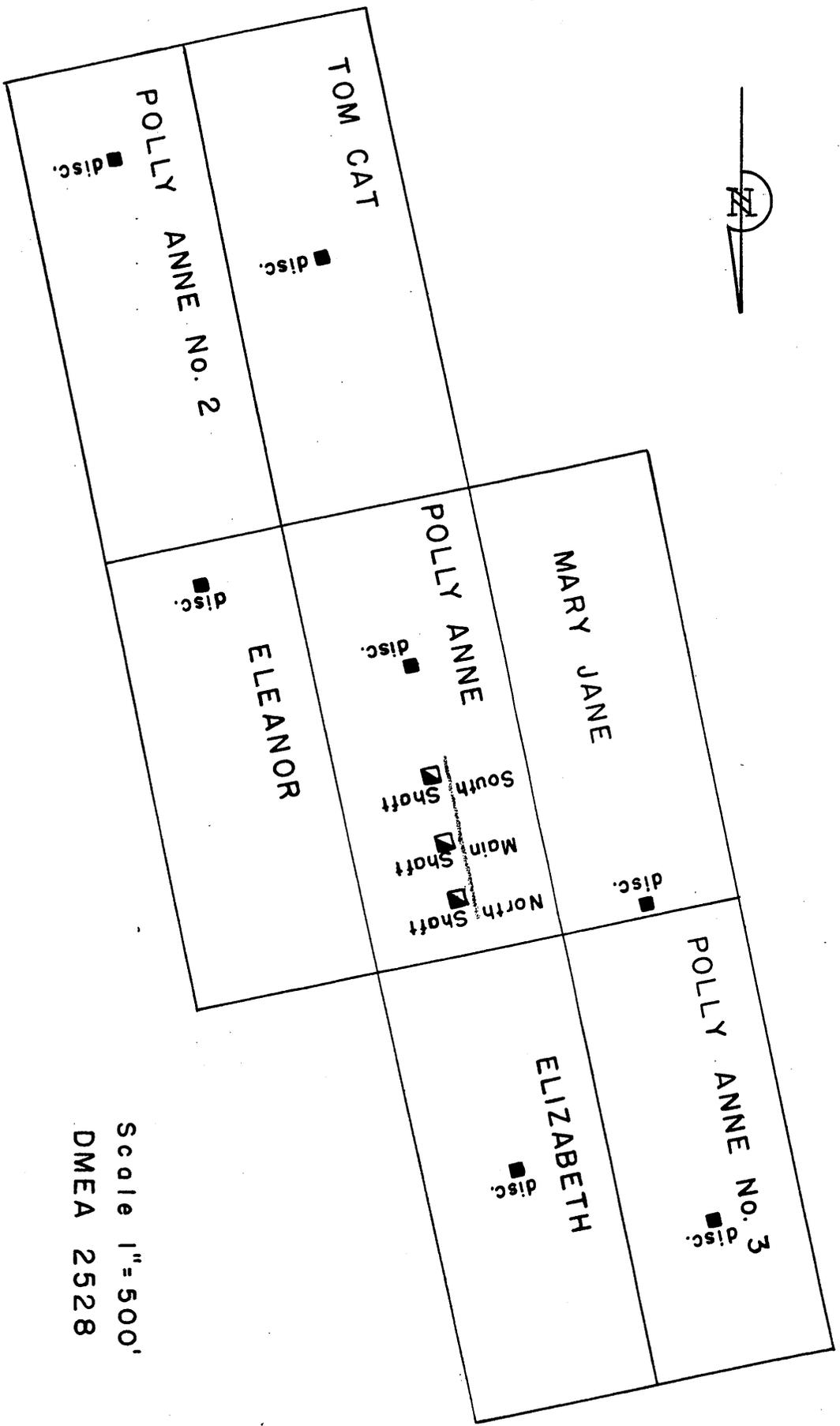
No.	Width	% CaF ₂	% SiO ₂
1	21"	92.00	4.03
2	21"	93.80	2.68
3	13"	90.00	3.24
4	13"	83.33	8.23
5	13"	93.00	3.43
6	30"	84.40	10.60

DMEA Samples

No.	Width	% CaF ₂	% SiO ₂
14658	18"	99.00	0.6
14659	20"	96.2	2.7
14660	20"	88.7	9.2

Figure 3 — Longitudinal Projection, Polly Anne Fluorspar Mine
Greenlee County, Arizona

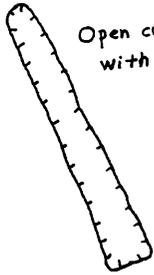
Map Furnished by Applicant.



Scale 1"=500'
DMEA 2528

Fig. 2—Claim Map—140 Acres, Polly Anne Fluorspar Mine
Greenlee County, Arizona

◆ Inlined shaft

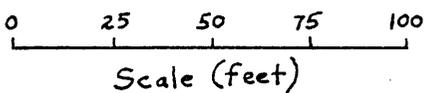


Open cut connects with ug workings



⊙ Pit 20' deep

POLLY ANN MINE
GREENLEE COUNTY, ARIZ.
NE 1/4 SEC. 9, T7S, R32E
3-28-75
WCH



POLLY ANN GROUP

GREENLEE COUNTY

MG WR 8/27/82: Discussed the Polly Ann fluorite mine, Greenlee County with the owner: Mr. Ben J. Billingsley, P.O. Box 105, Duncan, AZ 85534. Phone 359-2247. He believes there are unmined reserves remaining and he welcomes inquiries.

Ben Billingsley dewatered the Polly Ann Fluorspar mine (160') level so that it could be evaluated. The pump was then removed and the mine is gradually being allowed to refill. GWI QR 9-1969

Ben Billingsley of Duncan has dewatered the Polly Ann Fluorspar mine 15 miles north of Duncan, for examination purposes. The shaft is 160 feet deep and the mine has been stoped down to the 150-foot level. Pay Dirt 11-24-69

The Producers Minerals Company has an option and has been drilling on the Polly Anne, Daniels Camp, 4th of July and other claims belonging to Ben Billingsley. These claims are in Daniels Camp Canyon near the New Mexico Border about 6 miles east of Apache Grove. GWI QR 6-30-71

Ben Billingsley, Duncan, regarding mining activity in area. Said that exploration was in progress in the Carlyle, New Mexico, area, but that ore was not being shipped to the smelter at this time. He had optioned some of his fluorspar property to Producers Minerals again. GWI WR 10/11/73

Went on to Duncan and Ben Billingsley's ranch about 3 miles NE of Duncan. Asked Mr. Billingsley directions to his Polyanna fluorspar mine. He was butchering a beef and couldn't go to the property so he tried to tell how to find it. I took the trail he spoke of and after about 14 miles came in sight of 2 headframes but was unable to differentiate between the Polyanna and the Lucky mine. GW WR 11/20/74

Went to the Greenlee County Courthouse and looked up the recordation of the following claims:
 Pollyann, located 4/30/70, Book 33, Page 123, owned by Ben Billingsley
 " #1 " " " " " " " " " " " " 129 " " " " " "

Spent 3 hours in the field with the geologists. Learned at the recorder's office that Producers Minerals Co. had lease and option to buy the above claims, signed 10/73. Since then they have been paying the claimowners \$600 per month. GW WR 2/21/75

Addition to above listed claims (2/21/75):	White	located 4/30/70, Book 33, Pg.	130
	White Fraction,	located 4/30/70, Book 33, Pg.	131
	White #1	" " " " " "	132

Worked on the Pollyann mine and finished it. Looked over the White deposit which is very superficial hence no work was done on it. GW WR 2/28/75

Polly Ann Mine

LOCATION: The Polly Ann Mine, also known as the Forbis Mine, is located in the Steeple Rock mining district in the western foothills of the Mule Creek Mountains, about 15 miles northeast of Duncan. Three mine shafts are shown on the York Valley, Ariz.-N. Mex. 15 minute quadrangle; the northernmost shaft is located in T7S, R32E, Sec. 4, SW $\frac{1}{4}$, SE $\frac{1}{4}$, SE $\frac{1}{4}$ and the two other shafts are in the same township, Sec. 9, NW $\frac{1}{4}$, NE $\frac{1}{4}$, NE $\frac{1}{4}$. The shafts are on or slightly above the 4400 foot contour line (1341 meters) and are located at (32° 50' 44.88") North latitude and (109° 4' 23.16") West longitude on the topographic map.

The Polly Ann Mine can be reached from the U.S. 70 - Ariz. 75 junction in Duncan by driving approximately 2 miles northwest on Arizona Highway 75 to a gate in the highway fence, turn right (north) on a well-maintained gravel road leading up a sandy wash for over 3½ miles to Goat Camp Spring, turn left (northwest) on the jeep road for 2½ miles, past the Luckie No. 1 & 2 on the right (north) side of the road, to the Polly Ann Mine on the left (south) side of the road.

HISTORY: The earliest record indicates that the Polly Ann Mine was owned by Captain Bert L. Forbis of Duncan, Arizona, in 1937. Production then was listed as 150 tons/month of high and low grade fluorspar (the high grade was given as 89% CaF₂, metallurgical spar). In addition to the initial claim acquired by Captain Forbis in 1937, there are four other claims adjoining it.

In a 1952 report, the mine is listed under the ownership of Fluorspar Producers Corp. of Culver City, California. Arizona Eastern Fluorspar Corp. of Duncan took over from them in 1952.

OWNERSHIP: "The claims are presently owned by Ben Billingsley of Duncan, Arizona. The two Polly Ann claims are recorded by Mr. Billingsley on book 33, pages 123 and 129 in the Greenlee County Recorder's Office at Clifton, Arizona. Contiguous to the Polly Ann Mr. Billingsley has two White claims and one White fraction, which are recorded in book 33, pages 130, 131 and 132.

The claims are presently leased by Producers Minerals Co., Ralph Morrow, manager, Safford, Arizona."

GEOLOGY: "Fluorspar occurs as fissure veins in a shear fault. According to the owner, the ore is mostly pale to deep green, coarse-grained crystalline and occurs as shoots that are 4 to 6 feet wide by 50 feet long and 50 feet high. Some of the ore on the dump is columnar, banded and of medium grained, crystalline texture."

"Host rock for the fluorspar is a rhyolite tuff that is intruded by a porphyritic andesite. Nearby is a bleached area of rhyolite rocks which is indicative of hydrothermal alteration." The rocks are shown as Tertiary age on the Greenlee County geologic map by the Arizona Bureau of Mines.

"The ore vein strikes northwest-southeast and dips 82° to the southwest."
"On the surface, the fissure veins extend for a distance of 4000 to 5000 feet in an easterly direction to the Luckie Mine workings. The average grade of the ore shipped was 65% CaF_2 with 25 to 30% SiO_2 ;" "the high grade ran 90% CaF_2 with very little silica."

DEVELOPMENT: "The Polly Ann Mine consists of 3 shafts in a line trending $N 47^{\circ} W$. The shafts have been developed to depths of about 160 feet where water was encountered. The lower diggings were subsequently flooded and operations ceased. The mine was pumped out in 1969 for examination, but has been allowed to fill up again."
"Access to the underground connecting drifts was denied by MESA for safety reasons."

"An open trench (open stope) between the first and second shafts connects with the underground workings. The trench is 119 feet long and between 30 and 43 feet deep and also trends 47° southeast.

Production was 6500 tons between 1938 and 1944 from this and adjoining properties."

Polly Ann Mine

Location: The Polly Ann fluorospar mine is located in the north center and south center respectively of sections 9 and 4 of Township 7 South, Range 32 East, about 12 miles north of Duncan, Arizona.

Physical Features: (The mine consists of 3 shafts trending roughly in a line roughly 47° south to the southeast. There is also a trench (open store) between the first and second shafts which is 119' long and is between 30 and 43 feet deep and trends in the same direction.) → Jan, please insert the section between the parentheses under "Development".

The area is a ^{dry} desert environment with about 10 inches of rainfall a year. Vegetation is sparse brush.

History: The earliest record indicates that the mine was owned by a Captain Bert L. Forbis of Duncan Arizona in 1939. Production then was listed as 150 tons/month of high and low grade fluorospar (the high grade being given as 89% CaF_2 , metallurgical spar).

In addition to the initial claim acquired by Captain Forbis in 1937, there are four other claims adjoining it.

The ^{mine} ownership, in a 1952 report, is given as being owned by Fluorspar Producers Corp. of

Polly Ann Mine

Colver City, California. This Arizona Eastern Fluorspar Corp. of Pimmar took over from them in 1952.

Ownership: The claims are presently owned by Ben Billingsley of Pimmar, Arizona.

Geology: The ~~area~~ country rock is andesite porphyry with fine veins of silica and lenses of fluorspar, colored to green. The ore vein strikes northwest-southeast and dips 82° to the southwest. One ran 90% CaF_2 with very little silica.

Development: The shafts have been developed to depths of about 160 feet where water was encountered. The lower workings were subsequently flooded and operations ceased. The ^{mine} shaft was ~~de~~ pumped out in 1969 for examination, but has been allowed to fill up again.

Production was 6500 tons between 1938 and 1944 from this and adjoining properties.

Ore Reserves: Unknown

Recommendations and Conclusions:

(A1) - Greenlee Co., Arizona
 - past producer
 - underground mine

(A4) latitude N 32° 50' 47"
 longitude W 109° 4' 24"
 ref. pt. - lead frame
 precision of pt. location mea. 10m
 prime meridian Gila & Salt River
 T 7S, R 32E, sec. 4 sw ¼ ; sec. 9 nw ¼
 survey status - unknown
 elev. 4400' (1340 m)
 datum above sea level
 precision of elev. mea. 10 m
 USGS 1:250,000 quad Silver City

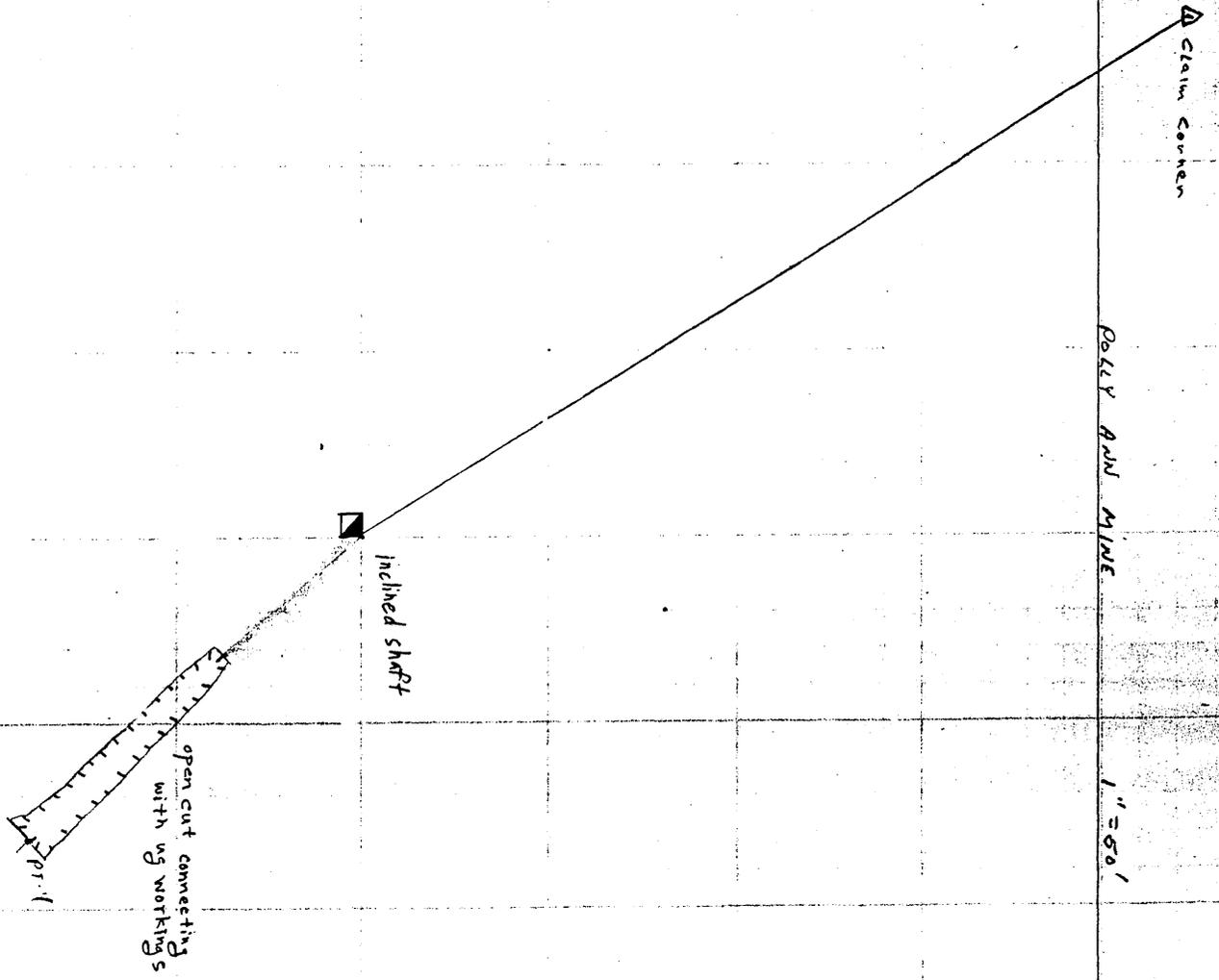
(A5) distance of road needed 0
 distance to adequate water supply 6 mi.
 " " " electrical " 6 mi.
 mining district Steeple Rock
 domain BLM
 drainage basin ?
 topography - hilly

note - the rest is identical to Lucky No. 2 Mine coding

(A8) econ. + gangue minerals
 py, CaF₂

(A9) same as Lucky No. 2 mine.

Polly ANN MINE



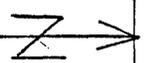
claim corner

POLLY ANN MINE

inclined shaft

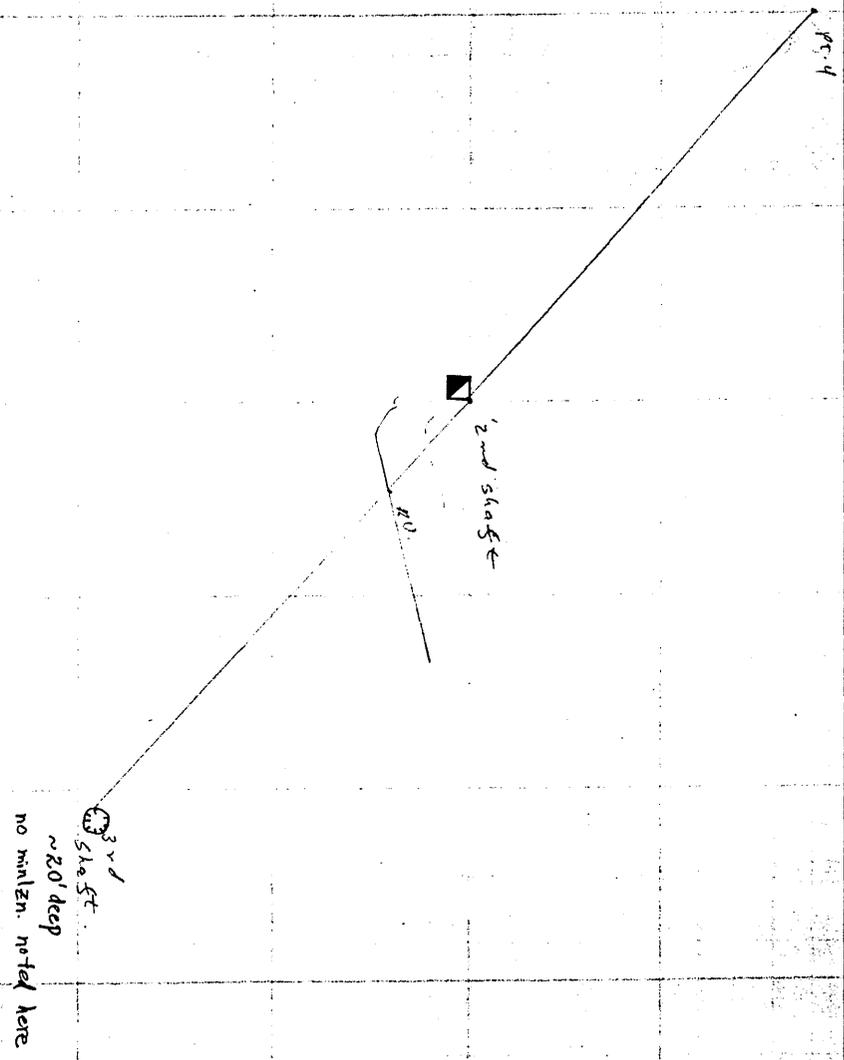
open cut connecting
with ug workings

1" = 50'



POLLY ANN MINE

1" = 50'



There are two Polly Ann claims recorded by Ben Billingsley, Duncan & book 33 pages 123 + 129. Contiguous to the Polly Ann Mr Billingsley has two White claims and one ~~part~~ White fraction which are recorded in book 33 pages 130, 131 + 132 in the Greenlee County Recorder's office, Clifton, Az. ~~The property is~~

The property is located in sections 4 + 9 T 7 S, R 32 E, Greenlee County, Az. It too is shown on 15 minute quadrangle sheet York Valley, Az + N Mex. From this map the Polly Ann main shaft is at an elevation of 4400 ft and has a location of $109^{\circ}04'21''$ longitude and $32^{\circ}50'44''$ latitude.

This mine can be reached by taking the same route from Duncan as that to the Luckie #1 ~~but~~ and continuing about 1 mile NW of the Luckie #1. The Polly Ann main shaft is on a trail to the south of the county road about $\frac{1}{8}$ mil.

Although it is apparent this mine had an appreciable production none is on record. It has the reputation of having had the best grade ore in the district.

Here too access to the shafts (3) was denied by MESA.

These claims are presently leased by Producers Minerals Co.

Ralph Morrow, manager, Safford, Az.

GREENLEE COUNTY

Mines, prospects and occurrences are located in Figure 5 (page 22), all in the Steeple Rock District, near the Arizona-New Mexico border.

Initial production began in 1918, with significant shipments in 1936-44, and the last production recorded in 1953. Total Greenlee County production is estimated at 7,500 tons.

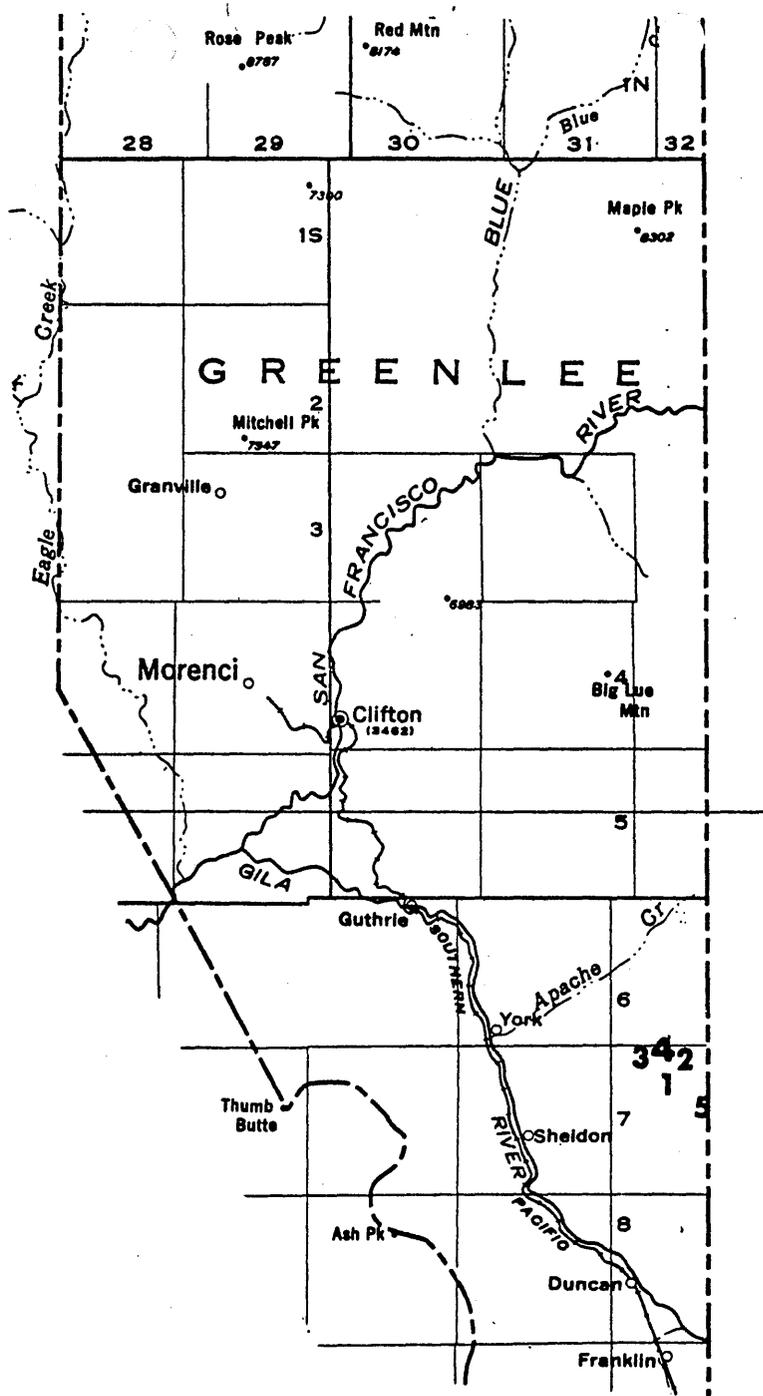
POLLY ANN MINE (Also known as Forbis Mine)

Located in the western foothills of the Mule Creek Mtns., in the NE-1/4 sec. 9, T7S R32E, about 14 miles northeast of Duncan. To reach the mine, take Arizona Hwy. 75 north of Duncan, crossing the Gila River, for a distance of 1.7 miles, then turn right (north) on a dirt road leading up a sandy wash a distance of 8.8 miles to Goat Camp; then take jeep road to left, past Luckie Mine workings, to the mine about 3 miles from Goat Camp.

The mine area consists of 3 shafts, several open cuts, and underground connecting drifts. The deepest shaft is about 200 feet and was flooded at the time of inspection.

The Polly Ann is the largest mine in the district and appears to have the best grade of ore.

Fluorspar occurs as fissure veins in a shear fault. The owner reports that the ore is mostly pale to deep green, coarse-grained crystalline, as shoots, 4 to 6 feet wide by 50 ft. long and 50 ft. high. Some of the ore on the dump is columnar, banded and medium grained crystalline textured. Host rock for the ore is a rhyolite tuff, intruded by a porphyritic andesite. Nearby is a bleached area of rhyolite rocks, indicative of hydrothermal alteration. On the surface, the veins extend for a distance of 4000 to 5000 feet, in an easterly direction, over to the Luckie Mine workings. Average grade of the ore shipped was 65% CaF_2 , with 25 to 30% SiO_2 . No metallic sulfides were noted.



GREENLEE COUNTY FLUORSPAR MINES

1. Pelly Ann Mine.
2. Luckie No. 1 and 2 Mines.
3. Daniels Camp Mine.
4. Fourth of July Mine.
5. Phillips Mine.

Figure 5.

Polly Ann Mine

Key to M.A. (no's)
 (A1) = sheet A1

(A-1)	blank no.	number put in	what the number means
1-2 04	Az	74-5 04	Az
3-5 011	Greenlee	76-8 199	USA
6-9 0001	sequence #	79-80 (2)	% ownership
10-12 010			
13 blk	add	10-12 021	
14 C	complete	13 blank	add
15-16 75	1975	14 0	no confidential
17 3	Interstate Ctr	15-14 75	date of info
18-20 230	fluorine	17 2	operator
21 1	wt %	18	Producers Minerals Co.
22-4 090	calcium		Ralph Morrow, mgr
25 +	wt %		Safford, Az
26-8		74-5 04	Az
etc.		76-8 199	USA
42 2	past producer	79-80 0	% ownership (leaded)
43 2	underground	(A4)	
44 1	located claim	1-2 04	Az
45 9	-	3-5 011	Greenlee
46 9	-	6-9 0001	sequence #
47 7	metric tons of ore	10-12 030	
48-55	file link - have blank	13 blank	add
56-71	additional commodities	14-20 32,84580 32,84638	32050'44.88" latitude
72-80	evaluator	32,84555 file 44"	47" = 783 50.785 = 84638 60% 60%
(A-2)			
1-2 04	Az	21 1	N
3-5 011	Greenlee	22-29 109.07333	109°4'24" W 109°4'29.4"
6-9 0001	sequence #	109.07315	24" = 40 4.40' = 207333
10-12 011			60% 60%
13 blank	add	30 4	W
14	POLKYANN MINE	31-46	
	FORBIS MINE		
(A-3)			
1-2 04	Az	47 1	head frame
3-5 011	Greenlee	48 1	10 m.
6-9 0001	sequence #	49-50 14	Hula & Salt R.
10-12 020		51-3 007	T/70
13 blank	add	54 0	fraction
14 0	no confidential info	55 2	S.
15-16 75	date of info. 1975	56-8 032	R 32
17 1	owner	59 0	fraction
18-	Ben Billingsley	60 3	E
	Duncan, Az.	61-2 0009	sec 4
		63 9.7	SW 1/4 - NW 1/4 (also sec 9 NW 1/4)

my work

(A4) cont.		NE 1/4
64	10 #	South 2 of its near A SW 1/4
65	10 #	NE 1/4 } at must be close to A, SW 1/4, SW 1/4, SW 1/4
66	2	surveyed on
67-7/01341		4400 ft. x .3047 m/ft = 1340.68 m.
72	1	above mean sea level
73	1	10 m. precision
74-5	292	Silver City 2° sheet
(A-5)		
1-13		same as A-1
14	1	road to site
15	3	2.10 km to 6 mi. to water (61.6003) shd. = 9.6 km
16	2	2.10 km 6 mi. to elec. A-2 [75] hwy.
17-31		STEEPLE ROCK
32-33	49	BLM
34-7	(?)	
38	4	hilly (225-320 ft) local 240' m 75-100 m relief Bill
39-42	0025	"10" = 25.4 cm Az Chemat p. 163
43	1	even Bill
44	2	temperate
45	3	veg - desert
46	0	soil - optional (A-2 steep upland shallow soil on granite + schist in mine region) undetermined
47	6	land use - grazing
48	4	working season - all yr
49	0	labor supply - undeter. (35 mi. by rd. to 18 mi. where to Clifton)
	(?)	available locally
50	2	land short term - minor
51	1	" long " - nil
52	2	veg - short term - minor
53	2	" long " - minor
54	1	wildlife short term - nil
55	1	" long " - nil
56	2	water short term - minor
57	2	" long " - minor
58	1	air short term - nil
59	1	" long " - nil
60	2	aesthetics short term - minor
61	1	" long " - nil

A-5 cont		
62	1	sound short term - nil
63	2	overall short term - minor
64	1	" long " - nil
65-69		map surf. area - 1 claim = 20 acres 20 acres (0.40468 hectares/acre) = 8.09 hectares
70	2	15-min. quad - largest scale map
71-80		YORK VALLEY
(A6)		
1-13		same as A-1
14	0	no confidential info
15-16	75	1975 yr of info
17	?	1 ore mineral exposed in place
18-21	1937	yr of discovery Bill
22-25	1937	yr of 1st production Bill
26-29	? 1944	" last " Bill
30-31	61	vertical test shaft
32	1	little (3 shafts) Elevations
33	?	
34-37	?	yr of work
38-39	81	tranching Bill
40	1	little (open cut 119' long x 30-43' dia)
41	?	
42-45	?	yr of work
46-7	72	horizontal test drifting or crosscut Construction
48	1	
49	?	
50-53	?	yr of work
(A7)		
1-9		same as A-1
10-12		
14-36		068-1 rhyolite tuff (intruded by porph. and quartz) porph. and Tertiary mdf. of 2 p. 186
37-39		
40	12 (C)	Civ - Port - ?
41	5	intrusions
42	2	faulting
42-3	60	other alteration undetermined
44-6	12 (C)	Test. use of defor. at
47	4	mineralogical follow-up - some date

Pollydun ave 712.8
 = 2.7
 ~ 68% fluorite

(A7 cont)

48-50	2.7	density fluorite = 3.18 (68%) quartz = 2.65 balance = 2.72 ?
		3.18(68) + 2.65(32%) = x(100%)
51-53	150	phylite phylite
54-5	1 1/2	fractures contain ore, gangue
56-8	156	phanitic andesite
59-60	1 1/2	replaced by ore, gangue
10-12	061	
14-36		porphyritic andesite
37-9	12 ?	sericitic + 2
40 etc	2	faulting
41	6	alteration (other)
42-3	00	undetermined
44-6	12 ?	sericitic - ?
47	4	mineralization following event
48-50	3.0	density
51-53	156	andesite
54-5	1 1/2	fractures contain ore replaced by
56	75.65	gangue replaced by ore
	7	gangue gangue

21-2	1	hydrothermal
22-5	1	tabular
26-7	2	recontrols = fractures (joints)
	3	" = faulting
28	3	moderate degree of wall rock alteration
29-34	07	type silicification
35-9	0	surface depth to mineraliz (m)
40-4	0	min "
45-8	0	ave thickness unconsol. 0m
49-52	0	min "
53-8	1525 (m)	length min zone ^{ore about 6 x 50 x vein 5000'} (or? 15 mi)
		1 mi = 1.6 km
		1 ft = .305 m (1000 m / 3000 ft)
		5000(.305) = 1,525 m
59	1	strike N
60-1	42	42
62	3	E
63-8	15	ave width ^{mineralized zone 6 x 50 x 53 dip 82° SW} 50' (.305 m/ft) ^(100' dip shaft)
69-70	82	dip 82° SW Bill Hit
71	2	S
72-5	2	ave thickness 6 ft Elev
		6' (.305 m/ft)

(A8)

1-13	as A1	
14-16	120	sericitic (mineralization)
17	4	phanitic ^{calc 100 mm} yellow ^{calc 100 mm} yellow
18-20	200	fluorite
21-22	06	halide
23	4	phan ^{calc 7-5 mm} ^{70% CaF2 out (100)}
24-7	65	65% ave CaF2 ore shipped
28		wt% (1) vol% (2)
29-31	412	quartz
32-3	15	SiO2
34	4	phan ^{calc 7-5 mm} grain size
35-8	30	25-30% elev
39		wt% (1) vol% (2)
40-42		?

(A10)

1-9	as A1	
10		record #
11-12	01	
14	1	fluorine (230 on old A1)
		65% CaF2 Elev
		25-30% SiO2 Elev
		89% CaF2 highest grade Elev

(A11)

1-9	as A1	
10-11	20	sec. id.
14	0	no confid. info
15-16	75	sp. info. vent system
17	3	system status (proposed)
18-19	99	swell factor unlit.

(A9)

1-13	as A1	
14	0	no confid. info
15-16	01	fracture systems
17-18	02	shear zone
19-20	04	breccia filling

Allcont.					
20-22	999	undetermined % waste w/	62-80		
23-4		underground mining method			
25	0	w/ hardness undeter.	(A14)	1-9	as A-1
26	0	w/ mass charact. undet.	10-12		
27	0	support charact. undet	14	75	w/
28-31		ave. depth of shafts	16		shipping pt.
32-3		ave length inclines	22		product from A13
		etc.			<u>all blank</u>
			(A15)		
			1-9	as A-1	
55-7	2	flooded condition of workings	10-12	700	
58-63	7	no mine entry allowed	14-80		Elevatorski 1971 Arizona
64-8					Fluorspar AZ DPT
69-74					MIN RES Phoenix
75-6					p. 21-3
(A12)	1-9	same as A11	701	14-80	AZ BUR MINES BULL 180
10					p. 349-52 1968
14	0	no confid. info	702	14-80	65% CaF ₂ and 25 to 30%
15-16	75	w/ entry made			SiO ₂ with 89% CaF ₂
17	3	system status proposed			maximum grade
18-19	99	small factor undet.	703	14-80	AZ BUR MINES CIRC 15
20-22	999	% waste w/ undet.			p. 2-9 1950
23-4		method glary hole			Wilson
(A13)	1-9	as A1	704	14-80	AZ BUR MINES BULL 114
10	2				p. 6 1921
12	2				ALLEN & BUTLER
14	0	no confid. info			
15-16	75	w/ info center rec.			
17	3	system proposed			
18-53					
54		beneficiation			
	1	hand sorting			

report compiled by Jan W. Walker
from field report of E. Walker & Elevatorski
& sub. report of Elevatorski

file

Polly Ann Mine

LOCATION: The Polly Ann Mine, also known as the Forbis Mine, is located in the Steeple Rock mining district in the western foothills of the Mule Creek Mountains, about 15 miles north-east of Duncan. Three mine shafts are shown on the York Valley, Ariz.-N. Mex. 15 minute quadrangle; the northernmost shaft is located in T. 17 S., R. 32 E., Sec. 4, SW¹/₄, SE¹/₄, SE¹/₄, and the two other shafts are in the same township, Sec. 9, NW¹/₄, NE¹/₄, NE¹/₄. The shafts are on or slightly above the 4000 foot contour line (1341 meters) and are located at ~~111° 32' 32.815560"~~ (32° 50' 44.88")

North latitude and ~~109.09315°~~ (109° 4' 23.16") West longitude, *on the topographic map.* from the U.S. 70 - Ariz. 75 junction in Duncan

The Polly Ann Mine can be reached by driving approximately 2 miles northwest on Arizona Highway 75 to a gate in the highway fence, turn right (north) on a well-maintained gravel road leading up a sandy wash for over 8½ miles to Goat Camp Spring, turn left (northwest) on the jeep road for 2½ miles, past the Luckie No. 1 & 2 on the right (north) side of the road, to the Polly Ann Mine on the left (south) side of the road. *(Walker & Elevatorski)*

HISTORY:

The earliest record indicates that the Polly Ann Mine was owned by Captain Bert L. Forbis of Duncan, Arizona in 1937. Production then was listed as 150 tons/month of high and low grade fluorspar (the high grade was given as 89% CaF₂, metallurgical spar). In addition to the initial claim acquired by Captain Forbis in 1937, there are four other claims adjoining it.

In a 1952 report, the mine is listed under the ownership of Fluorspar Producers Corp. of Culver City, California. Arizona Eastern Fluorspar Corp. of Duncan took over from them in 1952. *(Hint)*

3 pages →

OWNERSHIP: "The claims are presently owned by Ben Billingsley of Duncan, Arizona. The two Polly Ann claims are recorded by Mr. Billingsley on book 33, pages 123 and 129 in the Greenlee County Recorder's Office, at Clifton, Arizona. Contiguous to the Polly Ann Mr. Billingsley has two White claims and one White fraction, which are recorded in book 33, pages 130, 131, and 132.

The claims are presently leased by Producers Minerals Co., Ralph Morrow, manager, Safford, Arizona." (Walker)

GEOLOGY:

"Fluorspar occurs as fissure veins in a shear fault. According to the owner, the ore is mostly pale to deep green, coarse-grained crystalline and occurs as shoots that are 4 to 6 feet wide by 50 feet long and 50 feet high. Some of the ore on the dump is columnar, banded, and of medium grained, crystalline texture." (Elevatorski, 1971)

"Host rock for the fluorspar is a rhyolite tuff that is intruded by a porphyritic andesite. Nearby is a bleached area of rhyolite rocks which is indicative of hydrothermal alteration. ^(Elevatorski, 1971) The rocks are shown as Tertiary age on the Greenlee County geologic map by the Arizona Bureau of Mines.

"The ore vein strikes northwest-southeast and dips 82° to the southwest." (Hirt)

"On the surface, the fissure veins extend for a distance of 4000 to 5000 feet in an easterly direction to the Luckie Mine workings. The average grade of the ore shipped was 65% CaF₂ with 25 to 30% SiO₂. ^(Elevatorski, 1971) the high grade ran 90% CaF₂ with very little silica." (Hirt)

DEVELOPMENT:

"The Polly Ann Mine consists of 3 shafts ~~drifting~~ in a line trending N 47° W. The shafts have been developed to depths of about 160 feet where water was encountered. The lower diggings were subsequently flooded and operations ceased. The mine was pumped out in 1969 for examination, but has been allowed to fill up again. ^(Hirt) Access to the underground connecting drifts was denied by MESA for safety reasons." (Walker)

"An open trench (open stope) between the first and second shafts connects with the underground workings. The trench is 119 feet long and between 30 and 43 feet deep and also trends 47° southeast.

Production was 6500 tons between 1938 and 1944 from this and adjoining properties." (Hirt)

ARIZONA DEPARTMENT OF MINERAL RESOURCES
Mineral Building, Fairgrounds
Phoenix, Arizona

1. Information from: Ben Billingsley
Address: Box 105 Duncan
2. Mine: Polly Ann 3. No. of Claims - Patented 0
Unpatented 3
4. Location: Daniels Camp Canyon Greenlee County
5. Sec _____ Tp 6&7S Range 32E 6. Mining District Twin Peaks (Mayflower)
7. Owner: Ben Billingsley as above.
8. Address: _____
9. Operating Co.: _____
10. Address: _____
11. President: _____ 12. Gen. Mgr.: _____
13. Principal Metals: Fluorite 14. No. Employed: 0
15. Mill, Type & Capacity: _____
16. Present Operations: (a) Down (b) Assessment work (c) Exploration
(d) Production (e) Rate _____ tpd.
17. New Work Planned: _____

18. Misc. Notes: In Sept. ~~1968~~ 1969 the shaft was dewatered so that the mine
could be examined and sampled. (Jack Gillispie and Jim Brooks of CF&I Steel
Corp. did have a look at the mine probably in October or November)
3 claims Polly Ann, Daniels Camp & White.
(Duncan Billingsley)

Date: 12-15-69

[Signature]
(Signature)

(Field Engineer)

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA

FIELD ENGINEERS REPORT

Mine Billingsley Fluorspar Mines & Mill Date Jan. 7, 1959
District Twin Peaks District - Greenlee County Engineer Axel L. Johnson
Subject: Field engineer's report. Information from Ben F. Billingsley, Box 105
Duncan, Arizona

Mr. Billingsley informed the field engineer that he owns the Sydney (formerly 4th of July) and the Daniels Camp fluorspar mines; and that he is in charge of the Polly Ann and the Lucky Group (Lucky #1, #2, #3) and also owns a major interest in the Duncan fluorspar mill. He also stated that he is negotiating with a couple of parties for the lease of the mines and sale of the mill for the production of acid grade fluorspar. He also stated that if this fails to materialize, he considers starting production of metallurgical grade fluorspar.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine Polly Ann Mine

Date Jan. 7, 1954

District Twin Peaks Mining Dist., Greenlee Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report----Present Status

Location 15 miles north of Duncan.

Number of Claims 7 unpatented claims.

Owners Arizona Eastern Fluorspar Corporation
Lawrence K. Diffenderfer, General Manager, Box 146, Duncan, Ariz.

Operators Mine not in operation.

Principal Minerals Fluorspar

Number of men working Mine not in operation. No work.

Production Rate None. Mine is idle.

Recent Developments The D. M. E. A. Exploration Loan in amount of \$13,850 was discontinued last summer, and no work has been done on same since. No other work has been done at the mine recently, and it is doubtful that the company will resume operating the mine.

POLLY ANN GROUP

GREENLEE COUNTY

North of Duncan - Owned in Fee by company.

Company has a \$13,850 DMEA exploration loan on this property, but very little work has been done on this exploration loan thus far. Only 12 ft. of shaft sinking has been completed. For some reason, the mine was closed temporarily, and the company asked for and was granted an extension of time to perform the work. The manager, Mr. Diffenderfer reports that they plan on resuming work on this project some time this month. The DMEA loan calls for 110 ft. of shaft sinking, 200 ft. of drifting, and 90 ft. of raising.

Report by Axel L. Johnson 7-9-53

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date Sept. 4, 1952 (field inspect.)
Oct. 16, 1952 (info. from Supt.)

1. Mine: **Follyama Mine**
2. Location: Sec. **28** (appr.) Twp. **6 S** Range **32 E** Nearest Town **Duncan**
Distance **15 miles** Direction **North** Road Condition **Good**
3. Mining District & County: **Twin Peaks Mining District, Greenlee County**
4. Former Name of Mine: _____
5. Owner: **Arizona Eastern Fluorspar Corporation,**
Address: **Duncan, Arizona.**
6. Operator: **Same as above.**
Address: _____
7. Principal Minerals: **Fluorspar**
8. Number of Claims: **7** Lode **yes** Placer _____
Patented _____ Unpatented **yes**
9. Type of Surrounding Terrain: **Very hilly. Located on lower slopes of a low mountain range.**
10. Geology & Mineralization: **Country rock is rhyolite porphyry. This has been intruded by andesite in various places. The ore vein on the property is a fracture vein, striking northwest and southeast, and dipping about 82 deg. to the southwest. The average width of the vein is about 5 ft. The average ore content of the vein is estimated by the Superintendent to be about 60% Calcium Fluoride. However, he explains that there are numerous high grade ore lenses in the center of the vein, which are from 18 to 36 inches wide and run about 90% Calcium Fluoride.**
11. Dimension & Value of Ore Body: **Vein has been developed for a length of 620 ft. and to a depth of 150 ft.**

12. Ore "Blocked Out" or "In Sight": 15,000 tons approximately

Ore Probable: 60,000 tons approximately

13. Mine Workings—Amount and Condition

No.	Feet	Condition
Shafts..... 4	425	150 ft. good, 150 ft. fair, 125 ft. bad.
Raises.....		
Tunnels.....		
Crosscuts..... 2	1200 ft.	About half is in fair shape.
Stopes.....		

14. Water Supply: Water supply on the site is inadequate. Operators are building a mill near Duncan and will haul any ore mined from this mine to their mill north-west of Duncan.

15. Brief History: This is an old mine which has been idle a number of years. It is reported that 5,000 tons of high grade ore was shipped from the Pollyanna Mine during the Second World War, and prior to 1944.

Present Operations: Mine is at the present time idle. However, the Superintendent of the company, Morris Albertoli, reports that he expects that a loan will be granted soon by the Defense Minerals Exploration Administration to explore the property. The application for this loan was made about a year ago, and then resubmitted again some 2 or 3 months ago. Mr. Albertoli hesitated about giving out the figures about the amount of the loan, as he was afraid that these would not be the final figures. Information on this loan will be reported at a later date, after the decision is final.

Morris Albertoli is Superintendent.

16. Signature: Axel L. Johnson, Field Engineer -
Dept. of Mineral Resources

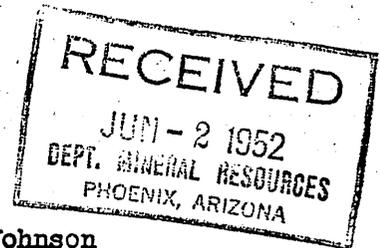
17. If Property for Sale, List Approximate Price and Terms: Not for sale or lease.

December 24, 1952

APPROVED EXPLORATION PROJECT CONTRACTS IN FORCE

<u>Effective Date</u>		ARIZONA	Government	Private
6-29-51	269X-A	Aris. Banner Mining Company, Mineral Hill Mine (Copper)	\$ 63,393	\$ 63,396
6-30-51	269X-B	Aris. Banner Mining Company, Twin Buttes Mine (Copper)	67,894.50	67,894.50
11-14-51	399	Aris. Sherwood B. Owens. Abril Mine (Zinc-Copper)	31,963	31,963
12-19-51	527	Aris. Yucca Mining & Milling Company. Antler Mine (Copper)	29,735	29,735
8-14-51	1093X	Aris. American Asbestos Cement Corp. 74 Claims (Asbestos)	111,482.10	12,386.90
10-20-52	1776	Aris. William W. Sorenson & William C. Williams (Asbestos)	19,575	2,175
5-15-52	1801	Aris. Reed and Reed Mining Co. Fountain Head and Silver Legion Claims (Lead-Zinc-Copper)	10,000	10,000
5-13-52	2234	Aris. Nash Mines Bonanza Lead-Zinc-Copper Mine, (Lead-Zinc-Copper)	19,300	19,300
10-27-52	2314	Aris. Arizona Copper Mines, Inc. Santa Catalina Copper Deposit, (Copper)	25,000	25,000
7-18-52	2356	Aris. Nikas Mining Company. Maudina & Morning Star Mines (Tungsten)	14,400	14,800
8-25-52	2463	Aris. Arizona Metals Company. The Summit Mining Claim and Silver Monster Claim (Lead-Zinc)	23,050	23,050
9-19-52	2528	Aris. Fluorspar Producers Corp. Polly Anne & Elisabeth Unpatented Lode Mining Claims (Fluorspar)	6,925	6,925
11-13-52	2550	Aris. The Bear Canyon Mining Company, Bear Canyon Mine (Asbestos)	23,598	2,622
10-23-52	2603	Aris. Magma King Manganese Mining Co. Ajax and Ajax No. 1 (Lead-Zinc)	11,550	11,550
GRAND TOTALS			<u>\$ 487,865.60</u>	<u>\$320,797.40</u>

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine Polly Ann Mine

Date May 28, 1952.

District Twin Peaks (Steeple Rock) --Greenlee Co. Engineer Axel L. Johnson

Subject: Mine Report --- Source of Inf.--- Morris Albertoli

Location 15 miles north of Duncan. Go north from Duncan on Highway 75 for 9 miles. Turn right (east) at first cattle crossing, and go 6 miles east on dirt road. Road is in good shape.

Number of Claims Polly Ann Group consists of 4 unpatented claims. Besides the Polly Ann Group, the company have options to purchase the Luckie Group, the Fourth of July Group, and the Daniels Camp Group of claims.

Owners Fluorspar Producers Corp., 9501 Washington Blvd., Culver City, Calif.
or P. O. Box 672, Benson, Ariz.

Operators Same as above.

Officers In charge of operations---- Morris Albertoli, P. O. Box 672, Benson, Ariz.
Mine Foreman ---- Ben F. Billingsly, Duncan, Ariz.

Metals mined Fluorspar

Men Employed 4 men (all day shift) on repair work.

Production Rate No production yet.

milling Facilities. The company will ship the ore produced from this mine to their proposed mill at Benson at first. Later, they expect to erect a mill on the Gila River near the town of Duncan.

Geology The country rock is porphyritic andesite, basalt, and rhyolite tuff. This is intruded by dikes of rhyolite porphyry. Veins are fissure veins, consisting of quartz, together with coarse calcite and colorless to green fluorite of medium to coarse texture. Ore shoots 3 to 4 ft. wide, and 140 to 145 ft. long have been proved up on the Polly Ann. This has been mined out to a depth of 150 ft.

Ore Values Ore in the Polly Ann vein runs 90% CaF_2 with very little silica. Along the footwall and hanging wall of the vein, there is a considerable quantity of lower grade ore running about 50 % CaF_2 and 25 % SiO_2 . This would increase the width along the vein that could be mined and milled to from 8 to 10 ft.

Past Production and Old Workings Shipments of about 6500 tons are said to have been made between 1938 and 1944, from this and adjoining properties. There is a shaft on the Polly Ann to a depth of 160 ft. which is now being repaired. The ore has been stoped out to the 150 ft. level.

Present Operations The company is now doing repair work. They are relining and repairing the shaft, and installing head frame, erecting a change house, and putting in air compressor.

Proposed Plans Plans are to sink the shaft an additional 100 ft., from the 160 to the 260 ft. level, and to drift and cross cut on the 260 ft. level.

To start work on the other properties near by held on option--- the Luckie Group, the Fourth of July Group, and the Daniels Camp Group.

SURFACE

STOPPED

STOPPED

STOPPED

STOPPED

NOTHING
HERE

EXPECT
ORE
HERE

WATER

STOPPED
one line 18" & 36"

36"

MAP

Scale 1" = 50 FT APPR
Date 6-24-46

Section

Scale
Date

12. Ore "Blocked Out" or "In Sight": In the lowest workings, a drift between the north shaft and the center shaft, at about 150 feet, there is from 18 inches to three feet of good ore for a distance of 140 feet. the center shaft is on ore and is about 12 feet deeper, this ore is three feet wide.

Ore Probable: It is expected that additional ore will be developed above water level going north from the north shaft as this area has not been explored. There is every indication that the ore will continue down for several hundred feet and be wider

13. Mine Workings—Amount and Condition:

No.	Feet	Condition
Shafts 3	530	excellent
Raises 1	70	this raise run to connect with south shaft like about a round finishing.
Tunnels		
Crosscuts none		
Stopes see map		

14. Water Supply: no domestic water on property. Have hauled water from Duncan.

Water was encounnered in the mine at about 130 feet. As it now stands it will take five days with a 10hp electric pum to unwater it. Volume decreases until after six months operation it was being pumped about 24 hours a week.

15. Brief History:

Property located in 1937, and work was started at that time. I mined and shipped 5500 tons before I shut it down to go into the army in 1941. There has been no production since that time.

16. Signature:

Burl L. Farlin

17. If Property for Sale, List Approximate Price and Terms: \$25,000 with \$5,000 cash, balance

on a royalty basis without other requirements except to keep assessment work up.

Will lease the property.

DEPARTMENT OF MINERAL RESOURCES
State of Arizona
MINE OWNER'S REPORT

Date..... June 24 1946

1. Mine: Polly Ann
2. Location: Sec..... Twp..... Range..... Nearest Town... Duncan Ariz
Distance 18..... Direction NE..... Road Condition 5mi. pavement Bal. G ood
3. Mining District & County: Clear Lake Greenlee
4. Former Name of Mine: same
5. Owner: Bert L. And Agnes T. Forbis
Address: 524 West Oregon Phoenix Arizona
6. Operator: not in operation
Address:
7. Principal Minerals: Fluorspar
8. Number of Claims: 5 Lode Placer.....
Patented Unpatented
9. Type of Surrounding Terrain: rolling foothills
10. Geology & Mineralization: almost pure fluorspar. almost vertical vein,
about North 25 West. Country rock porphyry.
11. Dimension & Value of Ore Body: The vein has averaged approximately 30 inches
or a little better wide. The entire production has been shipped to the steel
industry as metallurgical gravel and lump. The only treating conducted was the
screening . The ore was run over an inch and a quarter screen what passed thru
was shipped as gravel and the waste was sorted from the lump and it was shipped
as lump. 90/5 average.

Change address from 10-2-42

Duncan, Arizona.

Agnes T. Forbis.

~~1124 W. MacKenzie Drive~~

~~5241 N. 1st St.~~
Phoenix, Ariz.

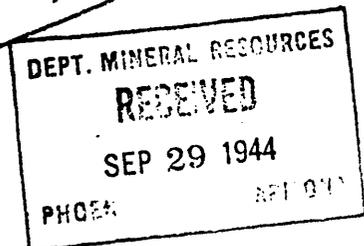
Not operating since July 1941

Repts.

Please copy & hand to Mr Forbis for
his assistance at R.F.C. and for
Phoenix Office files.

Have the copies
made
AM

W.C.F.



NAME OF MINE: POLLYANN
OWNER:

COUNTY: Greenlee
DISTRICT:
METALS: Fl.

OPERATOR AND ADDRESS		MINE STATUS	
Date: 6/45	Bert L. Forbis, 524 Oregon, Phoenix	Date: 6/45 5/46 10/46	Unwatering & reconditioning Idle Unwatering

Date: 2-5-47

Name of Mine PollyAnn Fluorspar Mine

Location Duncan Arizona

Operator Bert L. Forbis

Address 524 West Oegon Phoenix

Metals Produced Fluorspar

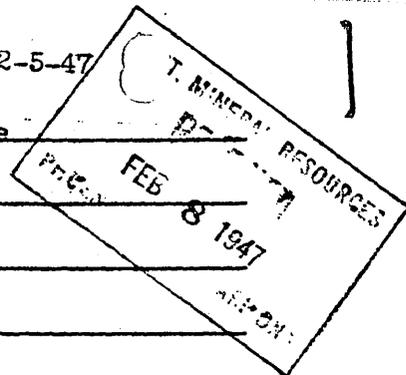
Developing

Shipping

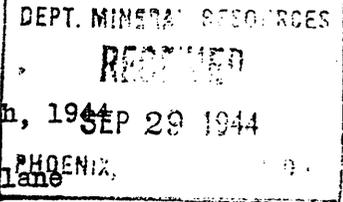
Financing

Planning Operations Soon

Idle



DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT



Mine POLLYANN (Fluorspar)
District Clear Lake or Steeple-rock
12 miles Northeast of Duncan, Arizona.
Subject: Examination.

Date Sept. 26th, 1944
Engineer A. Macfarlane

Property consists of 5 mining claims located in a general strike of north 45 degrees west, conforming to the course of one or more fissure veins said veins being partly explored thru part of two of the claims.

The Pollyann group are in Greenlee County, situated northwest of the town of Duncan, Arizona and reached by auto or truck over state highway Duncan towards Clifton about 10 miles thence over truck trail road for about 7 miles, winding over low hills and gravel washes from the main road easterly to the mine.

History Of Ownership; One claim was acquired by the present owner Captain Bert L. Forbis of Phoenix and Duncan, Arizona, prior to 1937 and 4 adjoining claims are owned by location.

Other than location holes, no work of development had been done, Mr Forbis has paid for a supervised practically all the mine development and Fluorspar production since he acquired the ground, subsequent to end of 1937 and until he was called into the army during 1941; since then the mine has been idle.

Development ; The mine is developed by 3 shafts as follows; the North shaft sunk on the vein on 70 degree incline towards the south has attained a depth of (stated) 180 feet, approximately 150 feet south, the Center shaft is sunk vertically to a depth of about 125 feet, and 100 feet further south and at 25' higher collar elevation the south shaft is sunk to about the 80 foot point below the collar.

By stopes and drifts from the north edge of the south shaft extending northerly, the vein has been mined to a few feet north of the north shaft and this stoping has been carried down to near the 100' point below the top of the main or north shaft.

Fluorspar ; Production from the stopes of the Pollyann mine about as above stated, has yeilded over 5,500 tons the grade of this spar being over 89% CaF₂ meeting all the requirements of Metalurgical spar.

Unfortunately for the owner and operator of this meritous small spar producer, the price F.O.B. cars at Duncan for this highgrade spar, only averaged about \$9.00 pr ton and the market was even uncertain at that low price. The same spar on market of today would command a price of about \$21.00 per ton and would gross around \$116,000. for the output of 5,500 tons, instead of the approximately \$45,000.00 gross received by Mr Forbis.

Ore Expectancy ; As the center shaft is more advantageously placed for surface dump and bin space, I would reccomend the repair and sinking of this shaft, to allow of 100' of stoping back beneath the present stope floor, thence drifting both directions on the spar vein to the limits of the ore so developed.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Mine ✓ POLLYANN (Fluorspar)

Date Sept. 26th, 1944

District Clear Lake

Engineer A. Macfarlane

Subject: Examination

2

The known ore shoot has a length as shown in the present workings of about 250 feet, the stoped upper portion together with the tonnage of ore shipped, indicates an average width of 2 1/2 feet of clean spar.

An inferred tonnage of 4,500 tons is in place within the 100' in depth by 250' along the strike of the fissure immediately below the present stopes.

Repairs and development ; as recommended thru the Center shaft will cost approximately \$5,000.00 the owner Captain Forbis has the hoist and air for drilling equipment; the headframe requires repairs also shaft timbers and the unwatering of the lower half of the former workings.

An ore bin should be added in order that ore shipments can again be made, soon as the shaft is put in working order and the unwatering finished, the further developments will yield ores at once for market.

Vein Occurrence; Within an igneous belt the Pollyann fissure is a contact between andesite forming the west wall and apparently the east wall is Rhyolite; the vein gangue being fluorspar and calcite.

Structural features makes possible a fissure of considerable continuity, especially along the northeast strike of the vein from the North shaft.

The vein between the north and center shafts widened to upwards of 8' and again pinches to 18" in the north heading.

A short 25' southerly from the South shaft, I believe the vein to be faulted or pinched out and as no exploration work was carried beyond the South shaft, the southerly continuation is at present in doubt.

The short cropping of another vein is evident about 140' easterly from the north shaft, this cropping paralleling the main vein should be further prospected.

Most important is, that a long drift be driven on the northeast trend of the vein, as no faulting seems likely in that direction for several hundred feet at least.

Conclusion ; Mr Forbis made this mine pay during the period of 1938 to 1940, when an uncertain market only provided a price for this high-grade metallurgical spar of about \$9.00 per ton F.O.B. Duncan.

During this past three years that he has served within the armed forces, much depreciation has occurred at his property, now requiring a few thousand dollars, as above recommended to place this mine again in profitable production, to market the spar at a price of over \$20.00 per ton and ready demand for this product.

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA
FIELD ENGINEERS REPORT

Date: October 19, 1939

Mine: Polly Ann Group

Engineer: Newton Wolcott

District: Mayflower Mining District

Location: 18 miles northeast of Duncan,
Arizona

Former name:

Owner: Capt. Bert L. Forbis

Address: Duncan, Arizona

Operator

Address

President

Gen. Mgr.

Mine Supt.

Mill Supt.

Principal Metals: Fluorspar

Men Employed: 7 or 8

Production Rate: 150 tons per month

Mill: Type & Cap.:

Power - Amt. & Type:

Operations - Present: Mining and shipping both high-grade crude and lower grade mill spar.

Operations Planned: Sink shaft deeper and continue both development and stoping

Number Claims, Title, etc.: Five unpatented claims.

Description - Topog. & Geog.: Low, rolling hills approximately eight miles east of the Gila River. Sparse brush is about the only form of vegetation. Elevation approximately 3500 feet above sea level.

Mine Workings - Amt. & Condition: One shaft 70 feet in depth
One shaft 135 feet in depth
Over 300 feet of drifting
Various stopes and open cuts
All workings are new, open and accessible

(over)

REDUCED TO MINIMUM OF 1000 FEET

Geology & Mineralization: The vein along which work is being conducted on this property is a filled fissure in andesitic porphyry. This fissure strikes N 40 W and has a practically vertical dip. The width of vein varies from 2 to 6 feet with probably an average width of 30 inches of fluorspar. The gangue is mainly calcite, with a little manganese in places. According to the owner, the silica content is extremely low and a considerable quantity of material is being mined which will run better than 99% pure. The vein has been explored only a short distance laterally and to a depth of 135 feet with no sign of weakening.

Ore - Positive & Probable, Ore Dumps, Tailings: At the time of visit, there were approximately 100 tons of high-grade crude spar piled on the dump awaiting a market and the only shipments being made were to the mill at Deming. Shipped material was running about 87% in grade. No estimate of tonnage is possible without additional development, but it is certain that there is a very nice reserve of spar available on the property.

Mine, Mill Equipment and Flow Sheet: A small hoist and compressor are the only pieces of equipment on the property.

Road Conditions, Route: State Highway 666 ten miles north from Duncan, then approximately eight miles of fair county road to property. Inquire in Duncan as to route.

Water Supply: A light flow of water has been encountered at the bottom of the deepest shaft, and it is probable that a reasonably good supply will be developed by further sinking.

Brief History: This property was discovered and located about two years ago, and work has been conducted steadily although slowly ever since. The owner states that it has paid its own way from the beginning, as good spar was encountered just under the surface.

Special Problems, Reports Filed: The present road from the property to the main highway is not too good; and a vastly superior road could be built at comparatively small expense by following a different route.

Remarks: It appears that production could be greatly increased in a very short time if market conditions justified doing so.

If property for sale; Price, terms and address to negotiate: Owner is not anxious to sell.

Signed: Newton Wolcott

Present Operations

Mining and shipping both mill grade and high grade crude spar.

New Work Planned Preparing to sink shaft on down below present depth of 130 feet. Will also carry on lateral development at greater depth.

Misc. Notes This property is producing some of the highest grade fluorspar known anywhere in the United States, and has not even begun to develop to any extent as yet. Has been a steady though small producer ever since its discovery a little more than two years ago.

DEPARTMENT OF MINERAL RESOURCES

News Items

Date 10/12/39

Mine Polly Ann Group

Location 18 Miles Northeast of Duncan

Owner Capt. Bert L. Forbis

Address Duncan, Arizona

Operating Co.

Address

Pres.

Genl. Mgr.

Mine Supt.

Mill Supt.

Principal Metals Fluorspar

Men Employed 6 or 7

Production Rate 150 Tons per month

Mill, Type & Capacity

Power, Amt. & Type

Signed *Bert L. Forbis*

(Over)