



## **CONTACT INFORMATION**

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ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HALLS BARIUM MINE

ALTERNATE NAMES:

ARIZOTA GROUP  
OLD ERNEST HALL  
GOLD-COPPER MINE GROUP

LA PAZ COUNTY MILS NUMBER: 69

LOCATION: TOWNSHIP 6 N RANGE 14 W SECTION 1 QUARTER NW  
LATITUDE: N 33DEG 53MIN 15SEC LONGITUDE: W 113DEG 40MIN 7SEC  
TOPO MAP NAME: SALOME - 15 MIN

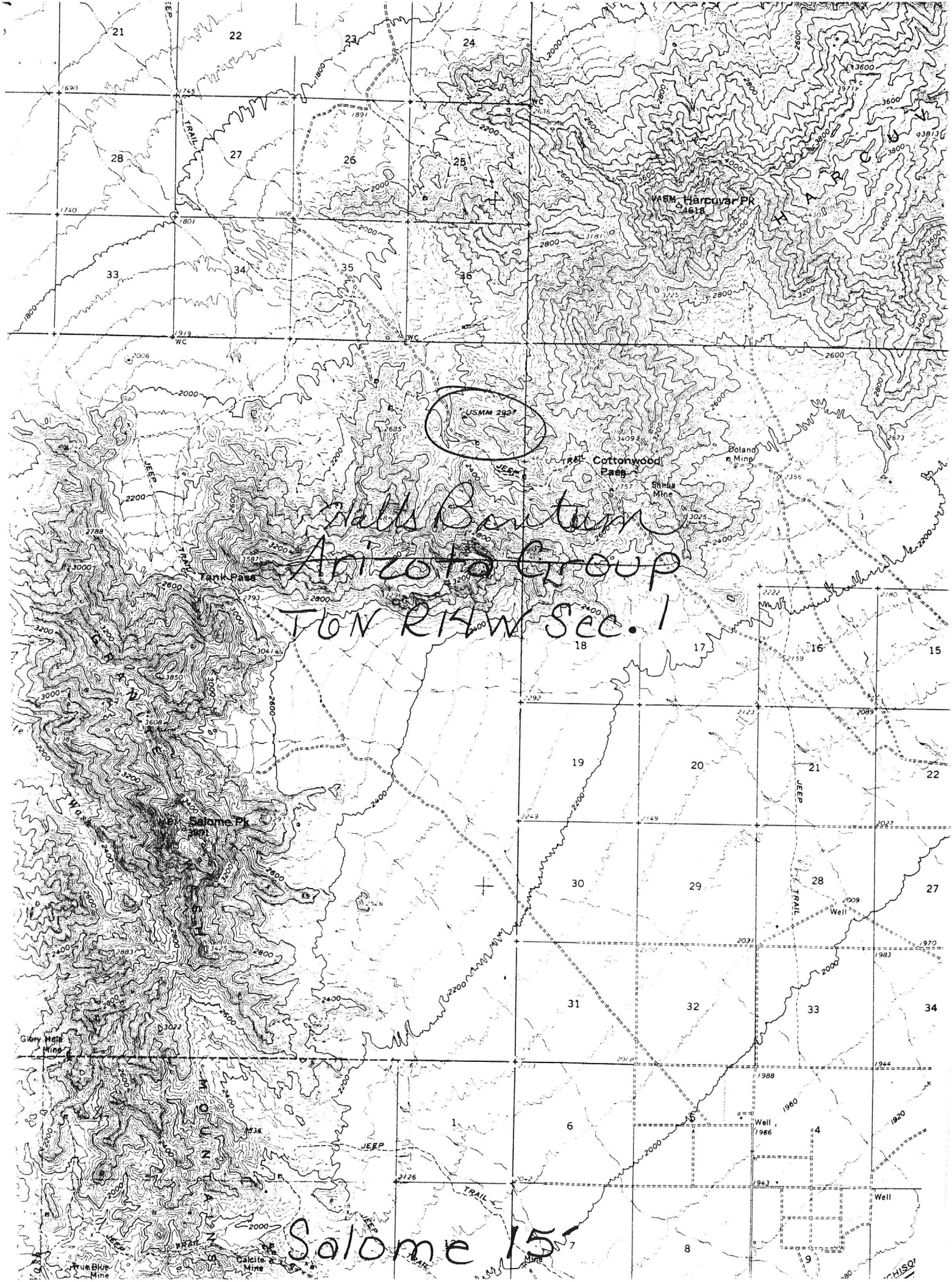
CURRENT STATUS: PAST PRODUCER

COMMODITY:

BARIUM BARITE  
COPPER OXIDE

BIBLIOGRAPHY:

KEITH, S.B., 1978, AZBM BULL. 192, P. 149  
STEWART, L.A., & PFISTER, A.J., 1960, USBM  
RI 5651, P. 79-80  
ADMMR HALL'S BARIUM MINE FILE  
ADMMR "U" FILE YUMA BARITE NO. 7



USMM 2927

Halls Bentonite  
Arizona Group  
TON R14W Sec. 1

Salome 15

USMM Harcuvar PK  
4618

Cottonwood  
Pass

Doland  
M. Mine

Spring  
Mine

Tank  
Pass

USMM Salome PK  
3971

Glory  
Hill  
Mines

Blue  
Mines

Caliche  
Mines

Well  
1966

Well

HISO

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Arizota Group

Date Sept. 20, 1954

District Ellsworth

Engineer Mark Gemmill

Subject: Present Status

Property idle and no work has been done there for some time

*RM*

ARIZONA DEPARTMENT OF MINERAL RESOURCES  
MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA

February 21, 1958

To the Owner or Operator of the Arizona Mining Property named below:

Halls Barium Mine                      Barium Sulphate  
(Property)                                      (ore)

We have an old listing of the above property which we would like to have brought up to date.

Please fill out the enclosed Mine Owner's Report form with as complete detail as possible and attach copies of reports, maps, assay returns, shipment returns or other data which you have not sent us before and which might interest a prospective buyer in looking at the property.

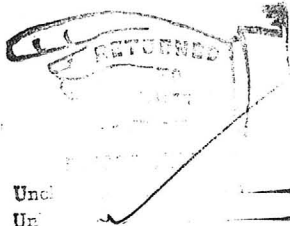
*Frank P. Knight*

FRANK P. KNIGHT,  
Director.

Enc: Mine Owner's Report

SEE R.I. 5651 - BARITE DEPOSITS OF AMERICA - p 79

JRCES



Under \_\_\_\_\_  
 Un\_\_\_\_\_ \_\_\_\_\_  
 Ins \_\_\_\_\_  
 Me \_\_\_\_\_  
 N \_\_\_\_\_  
 L \_\_\_\_\_

Mr. Earnest R. Hall  
 Box 456  
 Blythe, California

MH-33

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
MINE OWNER'S REPORT

Date: February 9, 1942

1. Mine: Hall's Barium Mine
2. Location: 8 miles N.W. Wenden, Ariz.
3. Mining District & County: Ellsworth  
Dist., Yuma County *Sec 1, 6 N, 14 W (RI 565) R79*
4. Former name
5. Owner: Ernest R. Hall
6. Address (Owner): Box 456, Blythe,  
California
7. Operator
8. Address (Operator)
9. President, Owing Co.
- 9A. President, Operating Co.
10. Gen. Mgr.
14. Principal Minerals: Barium Sulphate
11. Mine Supt.
15. Production Rate
12. Mill Supt.
16. Mill - Type & Cap.
13. Men Employed
17. Power - Amt. & Type
18. Operations - Present: Not being operated.
19. Operations: Planned:
20. Number Claims, Title, etc: 2 claims held by possessory right of location.
21. Description - Topography & Geography: On north side of Harcuvar Mountains.  
Good mountain road to ore bin.
22. Mine Workings - Amt. & Condition: Open cuts, surface workings, ten foot shaft  
and one winze in open cut about thirty feet deep, all in ore. About five or  
six hundred tons taken from these workings, averaging better than 4 specific  
gravity.

(over)

23. Geology & Mineralization: Two parallel fissure veins which cut the formation from southeast to northwest for several miles. Formation chiefly a granitic schist complex cut by dioritic and diabasic dikes, the fissure veins accompany the dikes, sometimes on one side, sometimes on the other, and sometimes in the middle of the dike and veins vary in width from two to six feet.

24. Ore - Positive & Probable, Ore Dumps, Tailings: Barite carries a small amount of iron and iron stain but will average around 4.1 s.g. At bottom of winze vein is over four and one-half feet wide with good walls and entire width is solid barite. No ore blocked out but plenty in sight.

24A. Dimensions and Value of Ore body.

25. Mine, Mill Equipment & Flow-Sheet

26. Road Conditions, Route: Good mountain road leads to workings on both claims.

27. Water Supply: Have a good well of water and spring one-half mile from claims.

28. Brief History: About twelve or fifteen cars of barite were shipped from the surface and open cuts and winze two or three years ago. Since then only assessment work has been done.

29. Special Problems, Reports Filed:

30. Remarks:

31. If property for sale - Price, terms and address to negotiate: Will sell the two claims and locate two adjoining claims for \$1500.00 cash or will lease with an option to buy at \$5,000.00 in two years with a 50 cents a ton royalty on all ore shipped. \$500 in six months, \$1,000 in one year and balance in two years.

Signed: Ernest R. Hall



Arizona Group (aka Gold-Copper Mine Group)

Yuma County

reference: Arizona Dept. of Mineral Resources  
Arizona Group Yuma County (file)

present owner: ?

past owners: Ernest R. Hall  
and George Mauk  
Salome, Arizona

history of the mine:

Prior to 1940 some development work was done on the property. Several shafts were sunk. Between 1940 and 1942 G. O. Trauzette (Route 1, Box 838, Glendale, Az.) acquired a lease on the property and called the claim the Gold-Copper Mine Group. Trauzette applied for a \$20,000 RFC loan in 1942. Engineer Elgin B. Holt did not want to "stick his neck out" as to the merits of this property in a 1942 report. By 1954 the property was reported idle and that no work had been done for quite awhile.

property consists of 15 patented claims

geology: country rock consists of gneiss-schist complex cut by diorite dikes and quartz veins (carrying gold + copper).

Arizona Group (cont).

ore: 6 parallel quartz veins 2 to 6 feet wide for 2 miles, striking N20°W and dipping 75°E.

assay: 1940

\$4.00 to \$8.00 gold per ton

6 to 8% copper

Hall's Barium Mine  
Sec. 1, T. 6N, R. 14W.  
Yuma County

reference: Arizona Dept. of Mineral Resources  
Hall's Barium Mine (file)

present owner:

minerals: barium sulfate

history of the area:

in 1942 the property was owned by Ernest R. Hall of Blythe, California. In 1939 or 1940, twelve to fifteen cars of barite were shipped from the surface and open cuts and winze. Only assessment work was done afterwards.  $\triangleleft$

geology:

granitic schist cut by diorite and diabase dikes; two parallel fissures striking NW-SE are cutting granitic-schist and are visible for several miles. The barite averages a specific gravity of 4.1.

property consists of 2 claims

reference: Barite Deposits of Arizona by L.A. Stewart and A.J. Pfister Bureau of Mines  
Report of Investigations 5651 U.S. Dept. of the Interior 1960

history of the area:

E. A. Wajahn had a lease on the property in 1937 and shipped to a California talc company.

Hall's Barium Mine (cont.)

The hand-sorted ore averaged over 4.25 specific gravity. The vein was 3 to 6 feet wide but pinched laterally and at depth.

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine: ARIZOTA GROUP (15 pat. claims)

Date: February 15, 1940

District: Ellsworth Dist., Yuma Co.

Engineer: Elgin B. Holt

SYNOPSIS REPORT

- OWNER:** Ernest R. Hall and Geo. Mauk, Salome, Arizona.
- LOCATION:** Property located in Cottonwood Pass, 9 miles north of Salome, in Harcuvar Mountains. Reached by good country road from Wenden.
- GEOLOGY-VEINS:** Country rock consists of gneiss-schist complex cut by diorite dikes and quartz veins, the latter carrying gold and copper. There are 6 parallel veins from 2 to 6 feet wide; strike N 20 deg. W; dip 75 deg. E. These veins can be traced for about 2 miles.
- DEV. WORK:** On all veins consists of: One shaft 100 feet deep; 3 shafts 30 feet deep each; and 3 tunnels from 30 to 60 feet deep; also a number of test pits on veins.
- MAIN VEIN:** This vein is also from 2 to 6 feet wide, is developed by 3 shafts each 30 feet deep, one tunnel 30 ft. and a number of test pits, exposing ore assaying from \$4.00 to \$8.00 gold per ton plus 6 to 8% copper. Character of ore, gold-bearing quartz, impregnated with copper carbonates, oxides and residual copper sulphides. Topog. rolling to hilly.
- DEV. WORK RECOMMENDED:** A shaft should be sunk on main vein to depth of 200 feet, or to a point where water may be encountered, and drifts driven on vein both ways from shaft, in order to develop the various ore shoots exposed on surface. At water level, copper sulphide ore, carrying gold values should be found, in which event values could readily be recovered by flotation.
- WATER:** Water for camp use is now supplied from a well near property. Water for milling could be secured in quantity by sinking wells in the Butler Valley, 2 to 3 miles westward from property.
- OPINION:** Mine has the earmarks, when and if adequately developed, that it would supply a 50-ton flotation mill with continuous ore of goodly milling grade over a long period of years.
- TERMS:** Mine open for a deal on reasonable terms - no cash down.

Yuma Arizona  
County State  
Property Name: Old Ernest Hall Property  
Owner: Name Address Date  
Unknown 4/16/58

Chief Mineral Barite No. 7  
Accessory Minerals  
Location: Approx. sec. 1, T. 6 N., R. 14 W.,  
Unsurveyed, about 9 road miles NW of Wenden

Operator:  
None

6N-14W-S1  
SEE LAST LOCATION ON  
SHEET #2 YUMA CO. (OLD HWY MAPS)  
ALSO, FILE 467 P. 139

Production: Reported to have shipped "several carloads" sorted ore 4.3 sp.g. to west coast consumer in late 1930's  
Total From to  
Present Rate Per Date

Source of Information: Summary Report Stewart 186

Status	Date

USM Report: File No. 467 Barite - Summary Reports  
Arizona

Classification: Prospect  
(See other side for general information)

Old Ernest Hall Property, Yuma County, Ariz.

Sec. 1, T. 6 N., R. 14 W.

**General Information:** Barite occurs in veins along faults or fractures in a granitic schist. Veins strike from N. 30° to 50° W. and dip from 55° to 80° northeast. Two main vein systems were investigated. Known length of the first was 400 ft., the width about 1.5 ft., and the depth 50 ft. Length of the second vein was 200 ft., the width 5 ft., and the depth also 50 ft. The first had been explored by a trench, 75 ft. long and 15 ft. deep, an inaccessible 30-ft. inclined shaft with a short drift off the bottom, and another 75-ft. trench farther to the southeast; the second vein had been explored by a 10-ft. shaft which was in a trench, 50 ft. long and 5 ft. deep. No work being done at time of visit. Several carloads of barite ore are said to have been produced in the late 1930's.

**Character of Ore:** Barite veins in faults or fractures in granitic schist. Random orientation of bladed barite with iron and manganese stained material between the crystals.

**Equipment (Date 4/16/58):** Only a dilapidated headframe and ore bin at (1)

August 18, 1942

PROPERTY UNDER LEASE TO G. O. TRAUZETTEL  
Route 1  
Box 838  
Glendale, Arizona

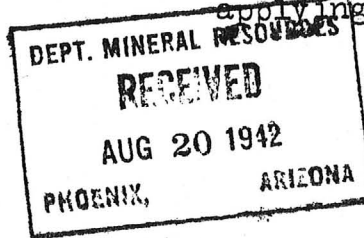
Now known as Gold-Copper Mine Group

Trauzettel applying for \$20,000 loan.

August 18, 1942

✓ GOLD-COPPER MINE GROUP,  
(Formerly: ✓ ARIZOTA GROUP),  
Ellsworth M. Dist., Yuma Co.,  
On which G. O. Trauzettel  
applying for RFC loan.

C O N F I D E N T I A L



To: J. S. Coupal  
From: Elgin B. Holt

Attention is called to your memorandum of August 14, 1942, to the Field Engineers, stating:

"I wish to call attention to the fact on all work where you assist applicants for mining loans it is necessary that you submit an ammended report for our files. Please check with the applicant in each case and see whether or not a report on his property has been filed with this office and, if not, get them to file the report and assist them in making it as complete as possible."

NOTE: In the case of G. O. Trauzettel (not Drauzettel), Route One, Box 838, Glendale, Arizona, who is now arranging to apply for a \$20,000 RFC loan with which to develop the GOLD-COPPER MINE GROUP, belonging to Ernest R. Hall, Salome, Arizona, I am writing you to advise as follows:

During February, 1940, I visited the group in question with the owner, Ernest R. Hall. It is located in Cottonwood Pass Canyon around 10 miles northwest of Wenden. On February 15, 1940, I wrote a Field Engineer's report concerning this property, consisting of 15 patented claims, belonging to Hall. This report you have on file under the heading ARIZOTA GROUP. Since TRAUZETTEL has acquired a lease on this property, he calls the group the GOLD-COPPER MINE GROUP." Also, I think Ernest Hall filed a mine owners report on this property, but am not sure. Anyhow, you should have my report, which gives a very good description of the group.

Now then, last Monday, August 17, I visited this property in company with Trauzettel and Percy Wright, of Phoenix, whom Trauzettel has retained to make a complete report on this property, to accompany the said application for a loan.

I outlined to Percy and Trauzettel exactly what should be done in drawing up the said application, in which I stressed the necessity of making an assay map in detail of the particular ORE SHOOT which Tr. wants to developed. As there are a number of veins and ore outcrops from which ore has been shipped, I told Percy he could plot these on his claim map and indicate the points from which ore has been shipped with attached smelter returns, or such of these as are now in the possession of Tr. Hence, I did not think it necessary to either make another report myself, or assist Tr. in making one, as, if necessary, we can get a copy of Percy's report. BUT MAINLY, as this mine is very spotty, the ore coming in small narrow lenses, I thought it best not to go on record as to the merits of this property, as thereby I would be sticking my neck out. On the other hand, I do not want to do anything to rock the boat. Let Tr. get the loan if he can.



MA-29  
✓

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine ARIZOTA GROUP (15 pat. claims).

Date February 15, 1940.

District Ellsworth dist., Yuma Co.

Engineer Elgin B. Holt

Subject:

SYNOPSIS REPORT

- OWNER: Ernest R. Hall & Geo. Mauk, Salome, Arizona.
- LOCATION: Property located in Cottonwood Pass, 9 miles north of Salome, in Harcuvar Mountains. Reached by good country road from Wenden.
- GEOLOGY-VEINS: Country rock consists of gneiss-schist complex cut by diorite dikes and quartz veins, the latter carrying gold and copper. There are 6 parallel veins from 2 to 6 feet wide; strike N 20 deg. W; dip 75 deg. E. These veins can be traced for about 2 miles.
- DEV. WORK: On all veins consists of: One shaft 100 feet deep; 3 shafts 30 feet deep each; and 3 tunnels from 30 to 60 feet deep; also a number of test pits on veins.
- MAIN VEIN: This vein is also from 2 to 6 feet wide, is developed by 3 shafts each 30 feet deep, one tunnel 30-ft. ~~tunnel~~ and a number of test pits, exposing ore assaying from \$4.00 to \$8.00 gold per ton plus 6 to 8% copper. Character of ore, gold-bearing quartz, impregnated with copper carbonates, oxides and residual copper sulphides. Topog. rolling to hilly.
- DEV. WORK RECOMMENDED: A shaft should be sunk on main vein to depth of 200 feet, or to a point where water may be encountered, and drifts driven on vein both ways from shaft, in order to develop the various ore shoots exposed on surface. At water level, copper sulphide ore, carrying gold values should be found, in which event values could readily be recovered by flotation.
- WATER: Water for camp use is now supplied from a well near property. Water for milling could be secured in quantity by sinking wells in the Butler Valley, 2 to 3 miles westward from property.
- OPINION: Mine has the ear-marks, when and if adequately developed, that it would supply a 50-ton flotation mill with continuous ore of goodly milling grade over a long period of years.
- TERMS: Mine open for a deal on reasonable terms - no cash down.

5 February 1942

*Card*

Mr. Ernest R. Hall,  
Box 456,  
Blythe, California.

Dear Ernie:

Mr. F. F. Schalmo of the Office of Production Management, Phoenix, Arizona, has referred your letter of December 26, 1941, to this department with the request that we obtain all information possible on your barium deposit.

I am enclosing herewith a blank mine owner's report, which I should suggest that you fill out in detail and return to this office so that information may be available concerning this property. I shall appreciate it if you can give me the quantity available, facilities for production, etc.

Thanking you in advance, and with kindest personal regards,  
I am

Yours very truly,

Charles F. Willis  
Chairman, Board of Governors

CFW-jrf  
encl.

24 February 1942

Mr. Ernest R. Hall,  
Box 456,  
Blythe, California.

My dear Ernie:

I am enclosing herewith a copy of mine owner's report covering HALL'S BARIUM MINE located in the Ellsworth Mining District, Yuma County, Arizona, which has been filed with this department.

I shall be glad to submit a copy of this report to anyone making inquiry for a property such as yours.

Assuring you of my desire to be helpful, and with kindest personal regards, I am

Yours very truly,

Charles F. Willis  
Chairman, Board of Governors

CFW-jrf  
encl.

*Murphy*

Blythe, California,  
December 26, 1941.

Office of Production Management,  
Division of Contract Distribution,  
Room 406, Security Bldg.,  
Phoenix, Arizona.

Gentlemen:-

Your letter of the 19th inst relative to barium carbonate has been forwarded to me here.

I can supply almost any quantity of Barium Sulphate crude ore, but do not know of any plant in Arizona producing commercial Barium Carbonate. Think there is a subsidiary of the National Lead Company in Los Angeles that probably could furnish the Barium Carbonate, as they are large buyers of ~~xxx~~ Barium Sulphate ore. I believe the name of the outfit is the Baroid Products Company, but do not know their address.

Any time you hear of anyone wanting the crude Barite Sulphate ore I would appreciate your giving them my address.

Thanking you for your trouble, I remain

Very truly yours,

*Ernest R. Hall*

Ernest R. Hall,  
Box 456,  
Blythe, Calif.

19 December 1941

Mr. Ernest R. Hall,  
Salome,  
Arizona.

My dear Ernie:

The Phoenix office of O. P. M., Mr. F. F. Schalmo in charge, has advised us that they are seeking 40,000 tons of barium carbonate.

We have given them your name as a possible source, this being based upon records in our office.

We do not seem to have any description of your property, and therefore were unable to give them as much information as we would like to have given.

We are enclosing herewith a blank mine owners report, which kindly fill out in detail and return to this office as it will be very helpful to have a description of your property for future emergencies.

With kindest personal regards, I am

Yours very truly,

Charles F. Willis  
Chairman, Board of Governors

CFW-jrf  
encl.

December 19, 1941

Mr. Ernest Hall  
Salome, Arizona

Dear Sir:

This office today received an inquiry from the Picatinny Arsenal at Picatinny, New Jersey, for Barium Carbonate, granular, with apparent density min. of 1.50, in 100 pound bags. They are desirous of obtaining 40,000 pounds of this material.

We have contacted the Arizona Department of Mineral Resources and through the kind cooperation of Mr. C. F. Willis and Mrs. Jess Fickas, received your name and address as having or knowing of a deposit of barite or barium.

Would greatly appreciate any information you might have relative to Barium Carbonate.

Thanking you in advance,

Yours very sincerely,

OFFICE OF PRODUCTION MANAGEMENT  
DIVISION OF CONTRACT DISTRIBUTION

By \_\_\_\_\_

Fred F. Schalmo - Manager

FFS:RL