



## **CONTACT INFORMATION**

Mining Records Curator  
Arizona Geological Survey  
1520 West Adams St.  
Phoenix, AZ 85007  
602-771-1601  
<http://www.azgs.az.gov>  
[inquiries@azgs.az.gov](mailto:inquiries@azgs.az.gov)

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PRINTED: 08/08/2002

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SHAMROCK CLAIMS

ALTERNATE NAMES:

PIMA COUNTY MILS NUMBER: 846

LOCATION: TOWNSHIP 18 S RANGE 8 E SECTION 28 QUARTER C  
LATITUDE: N 31DEG 50MIN 01SEC LONGITUDE: W 111DEG 32MIN 00SEC  
TOPO MAP NAME: BABOQUIVARI PEAK - 7.5 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:  
GOLD  
SILVER

BIBLIOGRAPHY:  
ADMMR SHAMROCK MINE FILE  
ADDITIONAL WORKINGS SEC. 21, 28 & 29



STATE OF ARIZONA  
**DEPARTMENT OF MINERAL RESOURCES**

MINERAL BUILDING, FAIRGROUNDS  
PHOENIX, ARIZONA 85007

602/255-3791

SHAMROCK CLAIMS

PIMA COUNTY  
BABOQUIVARI DIST.  
T18S, R8E, Sec 20, 21, 28, 29

MILS MAP NUMBER 846

See also: HOP SAGE GROUP (file)

SHAMROCK CLAIMS

BABOQUIVARI MINS.

Grover Bingham, 1507 West Windsor, Tucson, is a partner of Dale I. Havens, 3738 E. Nebraska Strav., Tucson. They together with another partner own some claims containing beryl in the Baboquivari Mtns. (Secs. 20-21-28-29 T18S, R8E) called Shamrock Claims. One diamond drill hole was just recently drilled by Glen Thatcher to a depth of 450 ft at 30 deg. angle. Now they want to stake out more claims, and Mr. Bingham asked for info on how to stake them out. Information supplied.

ALJ WR 4/6/64

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DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

FILED

JUL 20 1964

Date 7-18-64

1. Mine: Shamrock and Hop Sage Claims
2. Location: Sec 17-18-19 Twp. 18 S. Range 8 E Nearest Town Tucson Distance 50 MI  
 Direction N.E. Nearest R.R. Tucson Distance
- Road Conditions good
3. Mining District and County: Baboquivari, Pima
4. Former Name of Mine: none
5. Owner: W. Roper, Dale Harvost Associates  
 Address: 1503 W. Reliance St. Safford, Ariz
6. Operator:  
 Address:
7. Principal Minerals: Copper, Molybdenum, Beryllium.
8. Number of Claims: Lode 94 U.S. Patented <sup>2/4 see state</sup> Unpatented  
 Placer none Patented Unpatented
9. Type of Surrounding Terrain: To SW, foothills and mts. To SE, Valley Land

10. Geology and Mineralization: Rhyolite and gneiss intrusion thrusting NE from underneath andesite conglomerate mountain, breaching into and faulting along Pegmatite. Heavy fracturing running NW to SE. Quartz stringers cutting pegmatite mostly NW-SE. At least 3 sets of small quartz stringers, premineral and barren cross-cross formation. Mineralization shows in 4<sup>th</sup> deposition of quartz and
11. Dimension and Value of Ore Body: Some evidence of fractures values over 4 sq. miles. no ore body yet. 4-100ft holes and 2-50' (1X core) show some disseminated Chalcopyrite and molybdenite.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

no engineers Report

(over)

12. Ore "Blocked Out" or "In Sight": None

Ore Probable: unknown

13. Mine Workings—Amount and Condition: None

No.	Feet	Condition
Shafts <u>None</u>		
Raises <u>None</u>		
Tunnels <u>None</u>		
Crosscuts <u>None</u>		
Stopes <u>None</u>		

14. Water Supply: Probably 15 miles to good well site

15. Brief History: None - Virgin ground

16. Remarks:

17. If Property for Sale, List Approximate Price and Terms: Will option to any major mining Co. for plenty of time for exploration drilling. End Price 2,000,000.<sup>00</sup>

18. Signature: W. D. Hopper

Copy in Group  
Hop Sage Group

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

FILED  
JUL 28 1964

Date 7-18-64

- Mine Shamrock and Hop Sage Claims
- Location Sec 17-18-19 Twp 18 S Range 8 E Nearest Town Tucson Distance 50 MI  
Direction N.E Nearest RR TUCSON Distance
- Road Conditions good
- Mining District and County Baboquivari Pima
- Former Name of Mine none
- Owner W.D. Roper, Dale Hansen & Associates  
Address 1503 W. Reliance St. Safford, Ariz
- Operator
- Address
- Principal Minerals Copper, Molybdenum, Beryllium.
- Number of Claims: Lode 94 U.S. Patented <sup>2 1/4 Sec State</sup> Unpatented  
Placer none Patented Unpatented
- Type of Surrounding Terrain To SW, - foothills and mts. To SE., Valley Land

10. Geology and Mineralization: Rhyolite and gneiss intrusions thrusting N.E. from underneath andesite conglomerate mountain, breaking into and faulting along Pegmatite. Heavy fracturing remaining NW to SE. Quartz stringers cutting pegmatite mostly NW-SE. At least 3 sets of small quartz stringers, pre-mineral and barren cross-cross formation. Mineralization shows in 4<sup>th</sup> deposition of quartz and

11. Dimension and Value of Ore Body: Some evidence of fractures values over 4 sq. miles. no ore body yet. 4-100ft holes and 2-50' (N.W. core) show some disseminated Chalcopyrite and molybdenite

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

no engineers Report

One Blacked out - none

One Probable - unknown

Shafts - none

Raies - none

tunnels - none

crosscuts - none

stapes none

Probably 15 miles to good well site

Brief History - none

Will option to any major mining co. for  
plenty of time for exploratory drilling.

End price 2,000,000

W.D. Raper

DEPARTMENT OF MINERAL RESOURCES

State of Arizona

MINE OWNER'S REPORT

FILED

JUL 20 1964

Date 7-18-64

1. Mine: Shamrock and Hop Sage Claims
2. Location: Sec 17-18-19 Twp. 18 S. Range 8 E Nearest Town Tucson Distance 50 MI  
Direction N.E. Nearest R.R. Tucson Distance
- Road Conditions good
3. Mining District and County: Baboquivari, Pima
4. Former Name of Mine: none
5. Owner: W. Roper, Dale Harvost Associates  
Address: 1503 W. Reliance St. Safford, Ariz
6. Operator:  
Address:
7. Principal Minerals: Copper, Molybdenum, Beryllium
8. Number of Claims: Lode 94 U.S., 24 <sup>See State</sup> Patented Unpatented  
Placer none Patented Unpatented
9. Type of Surrounding Terrain: To SW, foothills and mts. To SE, Valley Land

10. Geology and Mineralization: Rhyolite and gneiss intrusions thrusting NE from underneath andesite conglomerate mountain, breaking into and faulting along pegmatite. Heavy fracturing running NW to SE, Quartz stringers cutting pegmatite mostly NW-SE. At least 3 sets of small quartz stringers, premineral and barren cross-cross formation. Mineralization shows in 4<sup>th</sup> deposition of quartz and

11. Dimension and Value of Ore Body: Some evidence of fractures values over 4 sq. miles. no ore body yet. 4-100ft holes and 2-50' (NX core) show some disseminated Chalcopyrite and molybdenite.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

no engineer's Report

12. Ore "Blocked Out" or "In Sight": None

Ore Probable: unknown

13. Mine Workings—Amount and Condition: None

No.	Feet	Condition
Shafts: <u>None</u>		
Raises: <u>None</u>		
Tunnels: <u>None</u>		
Crosscuts: <u>None</u>		
Stopes: <u>None</u>		

14. Water Supply: Probably 15 miles to good well site

15. Brief History: None - Virgin ground

16. Remarks:

17. If Property for Sale, List Approximate Price and Terms: Will option to any major mining Co. for plenty of time for exploration drilling. End Price 2,000,000.<sup>00</sup>

18. Signature: W.D. Hooper

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

FILED  
JUL 23 1964

Date 7-18-64

1. Mine: Shawrock and Hop Sage Claims
2. Location: Sec 17-18-19 Twp 18 S. Range 8 E Nearest Town Tucson Distance 50 MI  
Direction N. E Nearest R.R. Tucson Distance \_\_\_\_\_  
Road Conditions good
3. Mining District and County: Baloguivern, Pima
4. Former Name of Mine: none
5. Owner: W. Lopez, Dale Harms & Associates  
Address: 1503 W. Reliance St. Safford, Ariz
6. Operator: \_\_\_\_\_  
Address: \_\_\_\_\_
7. Principal Minerals: Copper, Molybdenum, Beryllium
8. Number of Claims: Lode 94 U.S. Patented 2/4 See State Unpatented \_\_\_\_\_  
Placer none Patented \_\_\_\_\_ Unpatented \_\_\_\_\_
9. Type of Surrounding Terrain: To SW, foothills and mts. To S.E., Valley floor

10. Geology and Mineralization: Phyolite and gneiss intrusion thrusting N.E. from underneath andesite conglomerate mountain, breaking into and faulting along Regmatite. Heavy fracturing running N.W. to S.E., quartz stringers cutting pyramite mostly NW-SE. At least 3 sets of small quartz stringers, premineral and barren cross-cross formation. Mineralization shows in 4<sup>th</sup> deposition of quartz and
11. Dimension and Value of Ore Body: Some evidence of fractures values over 4 sq miles. no ore body yet. 4-100ft holes and 2-5' (X core) show some disseminated Chalcoppyrite and molybdenite.

Please give as complete information as possible and attach copies of engineer's reports, shipment returns, maps, etc. if you wish to have them available in this Department's files for inspection by prospective lessors or buyers.

no engineers Report

(over)

12. Ore "Blocked Out" or "In Sight": None

Ore Probable: unknown

13. Mine Workings—Amount and Condition: None

No.	Feet	Condition
Shafts. <u>None</u>		
Raises. <u>None</u>		
Tunnels. <u>None</u>		
Crosscuts. <u>None</u>		
Stopes. <u>None</u>		

14. Water Supply: Probably 15 miles to good well site

15. Brief History: None - Virgin ground

16. Remarks:

17. If Property for Sale, List Approximate Price and Terms: Will option to any major mining Co. for plenty of time for exploration drilling. End Price 2,000,000.00

18. Signature: W.D. Hopewell

DEPARTMENT OF MINERAL RESOURCES

STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Shamrock Claims Date June 26, 1964  
District Baboquivari District, Pima Co. Engineer Axel L. Johnson  
Subject: Field Engineers Report. Information from Dale I. Havens.

References Report of Dec. 10, 1963

Location Secs. 20, 21, 28, & 29 -- T 18 S - R 8 E. For directions to reach property, see report of Dec. 10, 1963.

Owners Dale I. Havens, 3738 E. Nebraska Strav., Tucson, Ariz. (1/3 interest)  
Grover Bingham, 1507 West Windsor, Tucson, Ariz. (1/3 interest)  
Delmer Hardy -- now living in Michingan (1/3 interest)

Number of Claims 25 claims ---- 20 claims on Federal land & 5 claims on State land.  
9 claims -- 4 claims on Federal land & 5 claims on State land were located prior to Nov. 1, 1963.  
16 claims on Federal land were located the latter part of May, 1964.  
The location work on the last 16 has not been done, as yet, but will be done with rotary and diamond drilling, using drill owned by W. D. Roper.

Principal Minerals Copper, with small amounts of molybdenum, gold, and silver.

Present Activity None at present.

Geology Rhyolite intrusive in andesite, with numerous pegmatite dykes and quartz veins and stringers. The rhyolite intrusive, striking NW-SE, is several miles long, and extends NW onto the Hop Sage Group, which adjoins Shamrock Claims to the north (See report of the Hop Sage Group). Copper minerals are found in pegmatite veins on the property, and also in quartz veins and stringers.

Ore Values Mr. Havens reports that the diamond drill cores from the diamond drill hole, drilled by Glen Thatcher ran viz: Copper -- 0.22 % ; Molybdenum -- 0.03 % ; Silver -- 0.7 oz. ; Gold -- \$ 1.00 per ton ; Beryl -- 0.03 % . He stated that the beryl failed to go down in depth, and was not considered commercial.

Mine Workings 7 open cuts have been excavated by Mr. Havens and partners, viz:  
1 -- 30 ft. long, 10 ft. wide, and 8 ft. deep.  
5 -- 15 ft. long, 4 ft. wide, and 6 ft. deep.  
1 -- 6 ft. long, 4 ft. wide, and 6 ft. deep.  
These were dug to explore for beryl. The open cuts show narrow stringers of beryl ore, with, also a small amount of copper.

Review of Recent Operations

Diamond drilling was done by Glen Thatcher on contract in Nov. and Dec., 1963. One hole was drilled at an angle of 30 degrees, to a depth of 450 ft. on the incline. The hole was drilled on one of the Federal claims in Sec. 20. (See report of assays of the cores above under "Ore Values")

Proposed Plans Operators plan on doing the location work on the last 16 claims located with the use of rotary and diamond drilling, according to the new State law -- Senate Bill No. 63. W. D. Roper's Joy 22 diamond drill will be used for this work, after the location work on the Hop Sage Group has been completed by Mr. Roper and Mr. Havens.

Owners, later, plan on doing additional diamond drilling to show up an ore body in depth.

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**DEPARTMENT OF MINERAL RESOURCES**  
STATE OF ARIZONA  
**FIELD ENGINEERS REPORT**

Mine Shamrock Claims

Date Dec. 10, 1963

District Baboquivari District, Pima Co.

Engineer Axel L. Johnson

Subject: Field Engineers Report. Information from Dale Havens.

References Memorandum to Frank P. Knight -- "Occurrence of Beryl in Baboquivari Mountains" under date of Mar. 2, 1962.

Location Sections 20, 28, & 29 -- T 18 S -- R 8 E  
Drive 25 miles west of Tucson on Hwy. # 86 to Three Points.  
From Three Points, drive south on Hwy # 286 (Sasabe Road) for 20 1/2 miles.  
Turn right (west) and drive on Elkhorn Ranch road for about 3 1/2 miles.  
Turn right (north) and drive on mine road for about 5 miles to the claims.

Owners Dale I. Havens, 3738 E. Nebraska Strav., Tucson, Ariz. --- 1/3 interest.  
Delmer Hardy, Tucson ---- 1/3 interest  
Grover Bingham, Tucson ---- 1/3 interest

Number of Claims 4 claims on Federal land, unpatented.  
5 claims on State land, covered by State leases.  
(2 more claims on State lands now being located)

Principal Minerals Beryllium ore in the form of beryl.  
A small amount of copper and molybdenum also reported.

Present Mining Activity Diamond drilling by Glen Thatcher, Tucson on contract.

Ore Values Dale Havens reports samples and assays of drill cores run about 1 % in BeO and .1 % in copper, with traces of molybdenum.

Current Operations Diamond drilling was started by Glen Thatcher about one month ago. A drill hole is now being drilled at a 30 degree angle, which is now down to a depth of 300 ft. on the incline. This hole will be continued an additional 100 ft. and possibly 200 ft. Results of the assays of the drill cores is reported by Mr. Havens to be very good. See "Ore Values", as shown above.

This drill hole is being drilled on the Federal claims, and will take care of the annual assessment work for the current fiscal year. Later on, another diamond drill hole will be drilled on the State leases, and this will take care of the annual assessment work for the State claims.

The Federal claims are in Sec. 20 -- T 18 S - R 8 E.

The State leases are in Secs. 28 & 29 -- T 18 S - R 8 E.



RECEIVED  
MAR 8 1962  
DEPT. OF MINERAL RESOURCES  
PHOENIX, ARIZONA

*New Project*



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



Tucson, Arizona,  
Mar. 2, 1962

MEMORANDUM

To: Frank P. Knight, Director  
From: Axel L. Johnson, Field Engineer  
Re: Occurrence of BERYL in Baboquivari Mts.

Mr. Dale Havens, 3738 E. Nebraska St., Tucson came to see me today. Mr. Havens informed me that he, with 2 partners, had located 5 claims on State lands, which contains beryl, and that they are now doing the location work, and will apply for a State Mining Lease in a few days.

The location of the deposit is Secs. 20,21,28, & 29 ---- T 18 S - R 8 E.

The beryl is found in a pegmatite vein, and Mr. Haven informs me that assays from samples across the vein run from 8 to 12 % BeO. He states that the vein is from 5 to 6 inches in width.

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ALJ-WR-9-1-62 - Dale Havens visit to Tucson office - discussed his beryl claims  
(4 Fed. & 3 State) - Secs. 20,21,28,29- T 18 S - R 8 E.

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