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PRINTED: 09-10-2012

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: HARBORLITE 1

ALTERNATE NAMES:

BOWEN CLAIMS  
MARY ANN  
CHEMI-COTE  
CHICAGO PIT  
SUPERIOR PERLITE  
OLD CLUFF

PINAL COUNTY MILS NUMBER: 77A

LOCATION: TOWNSHIP 2 S RANGE 12 E SECTION 9 QUARTER W2  
LATITUDE: N 33DEG 16MIN 14SEC LONGITUDE: W 111DEG 07MIN 31SEC  
TOPO MAP NAME: PICKETPOST MTN - 7.5 MIN

CURRENT STATUS: PAST PRODUCER

COMMODITY:  
PERLITE

BIBLIOGRAPHY:

SEE ADMMR SUPERIOR AREA PERLITE FILE  
SEE ADMMR CHICAGO PIT FILE  
ELAVATORSKI, E.A., AZ. INDUSTRIAL MIN, P. 55  
ADMMR HARBORLITE 1 FILE  
BLM MING DISTRICT SHEET 610  
BLM AMC FILE 63770  
CLAIMS EXTEND INTO SEC. 8 & 16  
ADMMR DIR. OF ACTIVE MINES IN AZ., 1998, P.14

09/22/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: HARBORLITE 2

ALTERNATE NAMES:

HARBORLITE MILLS NO. 1  
HARBORLITE MILLS NO. 2  
MARY ANN PROPERTY

PINAL COUNTY MILS NUMBER: 97

LOCATION: TOWNSHIP 1 S RANGE 12 E SECTION 34 QUARTER SE  
LATITUDE: N 33DEG 17MIN 46SEC LONGITUDE: W 111DEG 06MIN 53SEC  
TOPO MAP NAME: SUPERIOR - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:

PERLITE

BIBLIOGRAPHY:

SEE ADMMR CHICAGO PIT FILE  
SEE ADMMR SUPERIOR AREA PERLITE FILE  
ADMMR DIR. OF ACTIVE MINES IN AZ., 1980, P.10  
ADMMR DIR. OF ACTIVE MINES IN AZ., 1998, P.14

09/22/98

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: GREAT LAKES CARBON CO.

ALTERNATE NAMES:

PINAL COUNTY MILS NUMBER: 115A

LOCATION: TOWNSHIP 2 S RANGE 12 E SECTION 16 QUARTER N2  
LATITUDE: N 33DEG 15MIN 37SEC LONGITUDE: W 111DEG 07MIN 14SEC  
TOPO MAP NAME: SUPERIOR - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:  
PERLITE

BIBLIOGRAPHY:  
ADMMR SNOW WHITE MINE FILE  
SEE ALSO ADMMR SUPERIOR AREA PERLITE FILE

ABSTRACTED FROM ADMMR DIRECTORY OF ACTIVE MINE IN ARIZONA, 1998

**HARBORLITE CORPORATION**

P.O. Box 960, Superior, AZ 85273 - Phone (520) 689-5723, Fax (520) 689-2362 - Employees: 13 - Perlite crushing, screening, and drying plant located 2 miles west of Superior - Two open pit perlite mines, located 2 miles southwest of Superior - Used in the manufacture of filter media for filtering pharmaceuticals, chemicals, sugar, and beverages and as an agricultural fertilizer carrier.

Plant Manager  
Assistant Manager  
Secretary - Orders & Transportation

Louie Lucero  
Mike Putz  
Jackie Alvarez

**Superior Perlite T2S R12E Sec. 9**

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1992

*Superior Area Perlite file*

**HARBORLITE CORPORATION**

**Superior Perlite T2S R12E Sec. 9**

P.O. Box 960, Superior, AZ 85273 - Phone 689-5723 - Employees: 9 - Plant located 2 miles west of Superior on Silver King Mine Road south of railroad track - Open pit perlite - Two mines, located 2 miles southwest of Superior - Markets in Florida, California, Michigan, and Wyoming - Used in filtering for pharmaceuticals, chemicals, sugar, and beverages - Also used as agricultural fertilizer carrier.

Plant Manager Bill Smith

Assistant Manager Bob Farmer

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1991

**HARBORLITE CORPORATION**

**Superior Perlite T2S R12E Sec. 9**

P.O. Box 960, Superior, AZ 85273 - Phone 689-5723 - Employees: 7 -  
Plant located 2 miles west of Superior on Silver King Mine Road south  
of railroad track - Perlite from open pit mines - Markets in California,  
Michigan, and Wyoming - Used in filtering for pharmaceuticals, chemicals,  
sugar, and beverages - Also used as agricultural fertilizer carrier.

Plant Manager .....  
Bill Smith

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1990

**HARBORLITE CORPORATION**

**Superior Perlite T2S R12E Sec. 9**

P.O. Box 960, Superior, AZ 85273 - Phone 689-5723 - Employees: 7 -  
Plant located 2 miles west of Superior on Silver King Mine Road south  
of railroad track - Perlite from open pit mines - Markets in California,  
Michigan, and Wyoming - Used in filtering for pharmaceuticals, chemicals,  
sugar, and beverages - Also used as agricultural fertilizer carrier.  
Plant Manager ..... Bill Smith

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1989

**HARBORLITE INC.**

**Superior Perlite**

T2S R12E Sec. 9

P.O. Box 960, Superior 85273 - Phone 689-5723 - Employees 7 - Plant located 2 miles west of Superior on Silver King Mine Road south of railroad track - Perlite from open pit mines - Markets in California, Michigan and Wyoming - Used in filtering for pharmaceuticals, chemicals, sugar and beverages - Also used as agricultural fertilizer carrier.

Plant Manager ..... Bill Smith

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1988

**HARBORLITE INC.**

**Superior Perlite**

T2S R12E Sec. 9

P.O. Box 960, Superior 85273 - Phone 689-5723 - Employees 7 - Plant located  
2 miles west of Superior on Silver King Mine Road south of railroad track -  
Perlite from open pit mines - Markets in California, Michigan and Wyoming -  
Used in filtering for pharmaceuticals, chemicals, sugar and beverages -  
Also used as agricultural fertilizer carrier.

Plant Manager ..... Bill Smith

SUPERIOR PERLITE

PINAL COUNTY

NJN WR 11/27/87: Bill Smith of Harborlite Inc (file) operators of the Superior Perlite (file) Pinal County, report that perlite production has increased now that they have a couple of new industrial clients back east.

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SUPERIOR PERLITE

PINAL COUNTY

LEWIS A. SMITH - WR - 9-25-59

Both Superior Perlite (now owned by <sup>Harborlite</sup> ~~Carbolite~~ of California) and Sil'Flow (Williams contract mining and milling) are active. Superior is repairing the mill and shipping several truck loads of milled perlite to California. Williams is shipping 30 cars of crushed perlite to Sil'Flow per month. 9 men working at the two plants. Both are shipping 30 (plus or minus) mesh material, the bulk of which is being used in filters.

Information from MINE INSPECTOR'S OFFICE - August 15, 1957

PERLITE MINES

Superior

2-27-57

PERLITE INDUSTRIES, 2123 E. <sup>Buckeye Rd.</sup> Henshaw, Phoenix,

Owner & Operator

Supt - Harley Miller, Box 422, Superior

PERLITE 1400 tons - 2 men in Mill, 4 in Mine

L.A.S.



Rhyolite content is limited to -20% - New specifications will be: -

+ 30 mesh	None
- 30-50 "	20 %
- 50-100"	35 %
- 100-200"	35 %
- 200 "	10 %
Rhyolite	15 %

The mine run of perlite, averages 6-8% moisture. This is removed from the crushed material by rotary kilns. 2% is added before loading for shipment. The dry perlite is blown to reduce the -200 mesh content to requirements. 2% moisture is required to minimize shipping losses and for "puffing".

The Perlite #1 mine, has to be mined selectively to keep down the amount of rhyolite. Two areas are satisfactory now but with the reduced rhyolite allowance will have to be more carefully mined in the future. A new area, now being drilled, appears to be better.

The Superior Perlite Pit lies some 400-500' south of the Perlite Industries No. 1 Pit and is similarly worked.

The "ore" is broken by air drill blasting. Loading is done by trackscavator and by scraper into a loading bin and hauled in 12-15 ton trucks.

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

Information from: Jackie Alvarez

Company: Harborlite Incorporated

Address: P.O. Box 960

City, State ZIP: Superior, Arizona 85273

Phone: 602-689-5723

MINE: Harborlite Plant, Harborlite 1 and 2

ADMMR Mine File: Superior Area Perlite

County: Pinal

AzMILS Number: BELOW

SUMMARY

Harborlite's perlite operations at Superior involve Pinal AzMILS 85, Harborlite Plant; AzMILS 77A, Harborlite 1; and AzMILS 97, Harborlite 97.

In the process of gathering information for the 1994 Directory of Active Mines Jackie Alvarez explained that Harborlite has purchased the Nord Sil Flo Corporation including the Nord Perlite plant on the north side of the railroad tracks on Silver King Mine Road in Superior. Some people from each operation are now involved in operating the Harborlite mines and plant. The north plant that was Nord's is currently idle.

The new Directory listing is HARBORLITE CORPORATION, Superior Perlite, located in Sec. 9, T.2S., R.12E. Address: P.O. Box 960, Superior, AZ 85273. Phone 689-5723. Employees: 11. Two separate plants located two miles west of Superior on Silver King Mine Road on each side of railroad track. The north plant (formerly Nord Sil-Flo) is currently idle. Two open pit perlite mines located two miles southwest of Superior feed the plants. Markets are in Florida, California, Michigan, and Wyoming. The perlite is used in filtering for pharmaceuticals, chemicals, sugar, and beverages, and for an agricultural fertilizer carrier. The Plant Manager is Louie Lucero, the former plant manager at the Nord plant.

Ken A. Phillips, Chief Engineer

Date: November 22, 1993

BOWEN CLAIMS

PINAL COUNTY  
Pioneer District

Telephone call to J. Jett 5/12/82. Gold Depository and Loan Company stated today that they now have control of the Bowen Claims.

The Harborlite and Williams perlite plants at Superior are back on their regular schedules now that the dust control systems are installed. GW QR 2/72

Went to Harborlite Corp. plant west of Superior. Two employed. Mine from Mary Ann claims. 400 T/wk. shipped to Texas, California and Michigan. Homer Spencer is manager. FTJ WR 6/15/72

Harborlite Corp. plant and Williams Mill continued to mine and process perlite throughout the quarter. FTJ QR 3rd 1/2 '72

Harborlite continued to mine perlite from the Mary Ann Claims. About 400 tons per week is mined and sized and shipped to Texas, California and Michigan. FTJ 4 1/2 '72

Active Mine List - October 1972 - Empl. 3 (1971 figures 400 T Week)

To Superior, visited perlite plants - operations as usual. FTJ WR 12/15/72

To Filters International and Harborlite plants. Both have installed dust collecting equipment. FTJ WR 2/15/73

Went to perlite plants; both operating. FTJ WR 6/15/73

Harborlite Corp. produced perlite at their regular rate. FTJ Annual Report 6/28/73

Harborlite was operating as usual. FTJ WR 10/11/73

Harborlite was down temporarily due to the decrease in building construction. GW WR 1/13/76

SUPERIOR MINE

KP WR - May 20, 1977

P.O. Box 960, Superior, Arizona 85273 - Employees 4-6 - Plant located 2 miles west of Superior on Silver King Mine Road - Open pit PERLITE mines - Purchases perlite from Guzman Construction - Produces ground perlite for further processing for "Filter Aid". Markets in California and Michigan. Uses - filtering for pharmaceuticals, chemicals, sugar and beverages and as a carrier for agricultural chemicals.

Plant Manager . . . . . Fred McVean

The Harborlite corporate offices are located in Torrance, California. Harborlite owns and operates their own perlite mines near Superior as well as purchasing mined perlite from Guzman Construction. Harborlite does not "pop" any perlite in Arizona, but the material is "popped" by the user. The processing plant at Superior crushes and grinds perlite to -30 mesh and removes free moisture by drying. The -200 mesh fines are removed and used as agricultural chemical carriers. The plant operates at a rate of 13 to 15 tons per hour.

Active Mine List April 1968 - 3 men

Two men have been mining perlite from the Harborlite mine and five men have been mining perlite from the Perlite mine near Superior. CLH QR 4-1968

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Active Mine List Nov. 1968 - 7 men

Harborlite Corp. shipping 3 cars per week. Ore is from the Mary T deposit. FTJ WR 3-28-69

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Active Mine List April 1969 - 3 men

Met Mr. Willis of Harborlite Perlite Co. He has 2 men producing 70 T/10 hrs. of 30 mesh. He says business is a little slow presently. GW WR 6-19-70

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The Harborlite Perlite plant is presently producing 60-70 tons daily of 30-mesh product. GW QR 7-1-70

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Active Mine List May 1970 - 3 men - M.C. Willis, Mgr. Harborlite

Mr. Willis of Harborlite Perlite is producing 60 tons of minus 35 mesh perlite with 3 men. He says they are doing considerable experimenting with the recovery of their minus 300 mesh material for which he has found a tentative market. If successful, this would alleviate most of the pressure being brought for anti-pollution. Mr. Willis said also that several recent complaints by people in town (2 miles distant) about blasting vibrations were squelched by his invitation to the local judge to visit the quarry at blasting time. He normally shoots 100-10 ft. holes bor about two weeks production. GW WR 10-26-70

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Active Mine List Oct. 1970 - 3 men - M.C. Willis, Mgr.

Both perlite plants at Superior are operating at reduced rates due to the installation of dust controls. GW QR 4-8-71

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Visited the Harborlite perlite plant west of Superior where the processing plant is operating night shift only while installing dust control equipment on day shift. Mr. Willis has quit to go into well-drilling on his own. A Mr. Nichols is now in charge; three men are working. GW WR 6-21-71

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Both the Williams and the Harborlite perlite plants at Superior had to curtail operations due to the installation of dust control equipment. GW QR 9/71

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Harborlite is producing 3-5 cars of perlite per week at present, a considerable increase over the rate in February. Cars are in plentiful supply now and improvements in the plant have helped materially. 5 men are employed. The market in California presently is strong.  
Memo LAS 6-16-65

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According to M. C. Willis, Harborlite shipped perlite to Azurich, near Chicago, Gardenia and Escondido in California (Harborlite), and Filter Media in Fort Worth. As far as is known it is all going into filters. Average monthly shipments have totaled about 12 cars, the maximum month being 18 and the minimum 6. Production has been somewhat hampered by very wet weather during January and December. Memo LAS 2-16-66

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The plant was periodically down but they generally are shipping at an increased rate to several consumers, according to Louis Williams of Arizona Perlite Roofing Inc.  
Memo LAS 6-1966

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C. W. (Doc) Bowen was in and stated that he now was "favored" for a patent of 210 acres of perlite ground (including Chemi-Cote claims) but the Sil Flo claims were up for adjudication. The court hearing was complete but no decision has been rendered. LAS WR 9-30-66

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Visit and conference with M. C. Willis who stated that they (Harborlite) had been shipping around 20-25 cars per month. This goes to Illinois, Louisiana, Fort Worth, and to Gardenia and Escondido in California. However, Willis said that this work is too much for three men since it required too much overtime. Memo LAS 2-24-67

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Mr. Willis said that they were held down in June by car shortages but generally averaged 15-18 cars per month over 1966-67 fiscal year. They are still shipping to the same places. (Escondido & Gardenia, California, Azurich, Illinois, and to Filter Media of Fort Worth, Texas; sporadic shipment to go to Louisiana). The material remains at 30 mesh in the car. Recently the Magma RR put in a siding to the Harborlite Mill. LAS Memo 6-21-67

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Mr. M. C. Willis informed me that they are operating regularly from four to five days a week. The two Willis brothers conduct the entire operation, one ripping, loading and hauling the perlite from the quarry to the plant, and the other operating the plant. They produce and ship one 80-ton car each day of operation. Most of their material is shipped to Chicago, but some goes to Texas and a little to the Los Angeles area. They do no expanding at Superior. Their product is dried, crude perlite, screened to -30 mesh, which means that much of it is -300 mesh. Robt. Playter 10-18-67

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Active Mine List Nov. 1967 - 2 men

DEPARTMENT OF MINERAL RESOURCES  
STATE OF ARIZONA  
FIELD ENGINEERS REPORT

Mine Boyer Claims

Date February 18, 1960

District Pioneer Dist., Pinal Co.

Engineer Lewis A. Smith

Subject: Interview with Charles Iberri of Superior and Walter C. Smith of Coolidge.

Location: Adjoins Guzman claims and Adams Mine on NW.

Property: 3 claims (patented)

Owner: L. Lee Boyer, 1010 Lemon St., Tempe, Arizona

Mineral: perlite ("onion" variety).

E-32 11-12 A-A 46  
Pinal

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

Date 9-25-46

1. Mine: Bowen Claims
2. Location: Sec..... Twp..... Range..... Nearest Town Superior  
Distance..... Direction..... Road Condition.....
3. Mining District & County: Pinal Pinal
4. Former Name of Mine: None
5. Owner: Bowen, Arthur C. W. and son Cleveland  
Address: P.O. Box 1184, Phoenix, Ariz.
6. Operator: same  
Address:.....
7. Principal Minerals: Perlite
8. Number of Claims: 2 Lode  Placer.....  
Patented..... Unpatented
9. Type of Surrounding Terrain: Rolling
10. Geology & Mineralization: Volcanic glass overlying
11. Dimension & Value of Ore Body:.....  
1200 x 800 depth unknown  
prospected holes 12' deep still in  
perlite



IN REPLY REFER TO:

# United States Department of the Interior

## OFFICE OF HEARINGS AND APPEALS

INTERIOR BOARD OF LAND APPEALS

4015 WILSON BOULEVARD

ARLINGTON, VIRGINIA 22203

### ESTATE OF ARTHUR C. W. BOWEN, DECEASED

IBLA 74-341

Decided January 30, 1975

Appeal from decision of the Arizona State Office, Bureau of Land Management, rejecting mineral patent application AR 030706.

Set aside and remanded.

1. **MINING CLAIMS: PATENTS - Determination of Validity; PRACTICE AND PROCEDURE - Constests - determination of validity.**

The Department of the Interior has the authority and the duty to contest mining claims which it believes are invalid, notwithstanding that the claims are located in a National Forest and the Forest Service has no objection to approval of a patent application.

2. **MINING CLAIMS: PRACTICE AND PROCEDURE - Hearings - when required - Opportunity for Hearings.**

When one whose application for patent for a mining claim has been rejected requests a hearing to present evidence on the controlling issues of fact involved in the rejection of the application, such request must be granted.

3. **MINING CLAIMS: LOCATION PROCEDURES - Possessory Rights.**

If mining claimants possess the essential qualifications as to citizenship, and if they peacefully entered and occupied the land and discovered a valuable mineral deposit thereon at a time when both the



United States Department of the Interior

OFFICE OF HEARINGS AND APPEALS  
INTERIOR BOARD OF LAND APPEALS  
4015 WILSON BOULEVARD  
ARLINGTON, VIRGINIA 22203

IN REPLY REFER TO:  
81 I.D.

*Arthur C. W. Bowen  
Decision*

ESTATE OF ARTHUR C. W. BOWEN, DECEASED  
AND SUPERIOR PERLITE MINES, INC.

IBLA 72-411

Decided January 22, 1974

Appeal from a decision of the Arizona State Office, Bureau  
of Land Management, rejecting mineral patent application AR 030706.

Reversed and remanded.

Mining Claims: PATENTS - Application - adverse claims; POSSESSORY RIGHTS -  
Co-ownership

An assertion by a co-owner of a mining claim  
that his interest has been omitted in  
another co-owner's application for patent  
is not an adverse claim within the meaning  
of the pertinent statutes, 30 U.S.C.  
§§ 29-32.

Mining Claims: POSSESSORY RIGHTS - Jurisdiction; PRACTICE AND PROCEDURE -  
Contests - adverse interests; PATENTS - Adverse Proceedings

In adverse proceedings between a placer  
claimant and a lode claimant, a state

INDEX CODE:

43 C.F.R. § 3862.1-1 (1973)  
43 C.F.R. § 3863.1 (1973)  
43 C.F.R. § 3872.1 (1973)

14 IBLA 201

GFS(MIN) 14(1974)

AR 030706 for the reason that a state court had held that Bowen was not entitled to possession of the claims.

Bowen's patent application consists of four placer claims, the Superior Perlite Nos. 1, 2, 3, and 4. However, the first claims located in this area were four lode claims; two were located by Bowen and two were located by the predecessors in interest of the Sil-Flo Corp., 1/ the party asserting an adverse claim to Bowen's patent application. When these lode claims were located in 1944, it was the custom in this mining district to locate perlite as a lode deposit. Several years later substantial doubts had arisen as to whether perlite was more properly locatable as placer material. Consequently, many locators began covering their lode claims with placer claims in order to be able to comply with either the lode claim statute or the placer claim statute. 2/ In 1950 and 1954, Bowen and seven associates

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1/ Sil-Flo's two lode claims are the Elva F. No. 1 and Sandy No. 1. Bowen's lode claims are the David R. No. 1 and the Superior Perlite No. 1 which should not be confused with Bowen's Superior Perlite No. 1 placer claim. In order to avoid confusion, the lode claims will hereinafter be referred to as Sil-Flo's lode claims and Bowen's lode claims.

2/ The lode claim statute is 30 U.S.C. § 23 (1970), which describes a lode as " \* \* \* veins or lodes of quartz or other rock in place bearing gold, silver, cinnabar, lead, tin, copper, or other valuable deposits \* \* \*." The placer claim statute is 30 U.S.C. § 35 (1970), and it describes a placer as anything other than a lode.

SUPERIOR PERLITE MINE

PINAL COUNTY

Both Superior Perlite (now owned by Harborlite of California) and Sil Flo (Williams contract mining and milling) are active. Superior is repairing the mill and shipping several truckloads of milled perlite to California, Williams is shipping 30 cars of crushed perlite to Sil Flo per month. 9 men are working at the two plants. Both are shipping 30 (plus or minus) mesh material, the bulk of which is being used in filters.

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LAS WR 9-25-59

Mr. Magnette stated that his rate of production was 5 cars per month of 35 mesh material. This rate was maintained for April and May. Memo LAS 6-21-62

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Mr. Magnette said that his rate of production was the same as previously reported - 4 to 5 cars per month. He has 3 men and himself working. Memo LAS 9-20-62

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Chemi-Cote pit and mill is running at the rate of 4-5 cars per month. They have had to ship their perlite in box cars part of the time because of the short supply of suitable covered gondolas. This is awkward and time killing. Memo LAS 1-28-63

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Mr. O. A. Magnette, supt. for several years, died suddenly last week and was replaced by Alex Anderson, former assistant to Magnette. The present address is Alex Anderson, Supt., Harborlite Corp., Superior, Arizona. Mr. Anderson said that he was running at capacity, 9 cars per month, but the Corporation wants even more. He would have to enlarge the screening section of the plant, in order to increase capacity. He is reluctant to do this unless he is guaranteed sufficient demand over a long time in the future, as this improvement would be costly. Memo LAS 9-30-63

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Active Mine List Oct. 1963 - 4 men

Mill visit and conference with M. C. Willis - who replaced Alex Anderson as foreman, in charge, for Harborlite Corp.

Mr. Willis was up to three weeks ago, with Bermuda Tile Co. of Phoenix (C&S Roofing & Supply Co., recently acquired Bermuda Tile Co., 102 S. 42nd St., Phoenix). Willis said he was shipping 2-3 cars per week to Harborlite Corp. for whom he works. Two sizes of perlite are being used, 14-16 mesh and minus 30 mesh. Minus 35 mesh and finer is now discarded but with revision of the screening plant and addition of a new cyclone, the finer material can be used by C & S Roofing Co. for certain applications. This is being done, since C & S indicated that they could use more per week. Willis is also planning to add additional hoppers to accomodate various sizes of material. He is closing the blast hole spacing in the pit so as to decrease the size of the feed and cut down on the material to be crushed. It appears that one type of perlite will yield 30-35 percent of minus 16-20 mesh, where by proper blasting 40-45 percent fines could be made. The crusher has been set at 1 inch and now will be closed to  $\frac{1}{2}$  inch, provided better fragmentation of the pit material is obtained. Willis thinks that, with these improvements, he can increase the output to double, or more, than is now obtained. Femco Filteraids Co., Box 19156, Houston, Texas 77024, has indicated they want 2 cars per week, also. Bermuda Tile (C&S Roofing Supply Co.) has been using 50 tons of fines per month. Memo LAS 10-21-64

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Visit and conference with M. C. Willis

Harborlite is working steadily at 8-10 cars per month, but expects to step this up soon. The improvements that were begun in October are largely installed and the plant now has more capacity. Memo LAS 2-17-65

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