



CONTACT INFORMATION

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PRINTED: 05-30-2013

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES AZMILS DATA

PRIMARY NAME: SUPERIOR OBSIDIAN GROUP

ALTERNATE NAMES:
BOYER CLAIMS

PINAL COUNTY MILS NUMBER: 77B

LOCATION: TOWNSHIP 2 S RANGE 12 E SECTION 9 QUARTER W2
LATITUDE: N 33DEG 16MIN 25SEC LONGITUDE: W 111DEG 07MIN 24SEC
TOPO MAP NAME: SUPERIOR - 7.5 MIN

CURRENT STATUS: EXP PROSPECT

COMMODITY:
PERLITE

BIBLIOGRAPHY:
ADMMR SUPERIOR OBSIDIAN GROUP FILE
ADMMR MAPS ADOT HIGHWAY MAP - PINAL CO. 1949,
P. 1
OBSIDIAN IS A COPRODUCT

LETTER REGARDING LEE BOYER PERLITE PROPERTY

FILED - "G"- MISCL. - Great Lakes Carbon Corporation

Superior Oklahoma

XXXXXXXXXXXX

518 Title & Trust Bldg.

April 3, 1942

Mr. L. Lee Boyer
Superior, Arizona

Dear Lee:

I am enclosing a letter from Mr. J. D. Thompson of Hollywood, California, and a copy of my reply to this letter. Please return the copy of Mr. Thompson's letter for our files.

If you can supply him with the specimens and the other information regarding perlite which he desires, it would be appreciated. If you cannot do so, please advise me at the time you return this letter.

With kindest regards, I am

Yours very truly,

J. S. Coupal

JSC:LP
Enc.

19 December 1941

Mr. L. Lee Boyer,
Superior,
Arizona.

My dear Mr. Boyer:

Complying with request of Mr. J. S. Coupal, I am returning herewith a copy of Preliminary Report on the Superior Obsidian Group, dated February 25, 1941, which you sent for our information.

With best wishes, I am

Yours very truly,

Jess R. Fickas
Secretary to Mr. Coupal

jrf
encl.

REGISTERED MAIL
RETURN RECEIPT REQUESTED.

BOARD OF GOVERNORS:
CHARLES F. WILLIS, PHOENIX
CHAIRMAN
DR N. H. MORRISON, PHOENIX
VICE-CHAIRMAN
SHELTON G. DOWELL, DOUGLAS
L. V. ROOT, KINGMAN
LOYDE C. EDMONSON, GLOBE

DEPARTMENT OF MINERAL RESOURCES
STATE OF ARIZONA

PHOENIX, ARIZONA
518 TITLE AND TRUST BUILDING



J. S. COUPAL, PHOENIX
DIRECTOR

W. J. GRAHAM, PHOENIX
ASSISTANT TO THE DIRECTOR
AND SECRETARY TO THE
BOARD OF GOVERNORS

FIELD OFFICES AT
GLOBE - KINGMAN
PRESCOTT - TUCSON

FEB 10 1942

PHOENIX, ARIZONA

19 December 1941

REPLY TO

Mr. L. Lee Boyer,
Superior,
Arizona.

My dear Mr. Boyer:

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the Superior Obsidian Group, dated February 25,
1941, which you sent for our information.

With best wishes, I am

Yours very truly,

Jess R. Fickas

Jess R. Fickas
Secretary to Mr. Coupal

jrf
encl.

REGISTERED MAIL
RETURN RECEIPT REQUESTED.

Globe, Dec. 18.

Dear Jess;-

In preparing a write up on Perlite from Lee Boyer I had some of his original reports.

Boyer would like to have these returned.

They may be in your files or I may have given them to Jack Hoagland and he may have them in his file.

Please check and return same to Lee Boyer, Superior.

I am enclosing several item for C F W.

Very truly yours,


J. S. Coupal.

Jack had
nothing on this
J

OIL—MINING 10 MONDAY

Experiments With Perlite
May Start New Industry

Mc
Mi

COPY

P R E L I M I N A R Y
R E P O R T
SUPERIOR OBSIDIAN GROUP

By: L. Lee Boyer

February 25, 1941

LOCATION AND TITLE: The obsidian Group of Claims of Superior is situated about two (2) miles S. W. of Superior and about fifty-five (55) miles from Phoenix, Arizona on highway 60 and 89. The property consists of four (4) unpatented mining claims of twenty (20) acres more or less each. The claims are on record at the county recorder's office in Florence, county of Pinal, State of Arizona. The title of the property is clear and unincumbered.

ACCESSIBILITY: The property is situated very favorably as to transportation facilities. A surfaced highway runs within one-half mile of the property, and the Magma Arizona railroad is not more than one and one-half miles from the claims. A good truck road runs from the highway to the property.

TOPOGRAPHY: The topography of the country is undulating and for the most part rugged. The ridges run mainly N.W.-S.E. and rise to a maximum of five thousand, five hundred (5500) feet A.S.L. The approximate elevation of the property is around twenty eight hundred (2800) feet.

GEOLOGY: The Obsidian group of claims overlie an area pre-cambrian in age, considerably altered by weathering on the surface exposures. The geological structure of the country in the immediate vicinity is somewhat complex. To the west the high ridges are composed chiefly of paleozoic

dacite with quartzite occurrences here and there; while the lower portion consists of metamorphized siliceous rocks with some andicite and granite porphyry in evidence.

The country lying further to the N. E. consists chiefly of dacite, limestone and quartzite. The limestone and quartzite dips about 38 N. E. and the folia are considerably contorted, resting unconformably on the underlying foundation rocks.

The country has been considerably influenced by numerous intrusions, causing radical shearing. The principal mineral deposits on the property are perlite and obsidian. The perlite and obsidian occurrences overlie more than forty acres, and large outcroppings and exposures are of the same composition and would indicate a tremendous tonnage.

ANALYSIS: The analysis was made by the writer at the Superior Assay Office and Ore Testing Laboratory. The results of my investigations and findings are as follows: Chalcedony varieties, the study of which shows that this type has a concentric structure and may be a distinct species. The fusibility is characteristic; it is fusible to a vesicular enamel, but this enamel on further heating is infusible.

Radical changes of temperature do not affect this type; it is insoluble in acid and cannot be broken down except with hydrofluoric acid. The perlite is very friable and is extremely easy to crush; when pulverized it is as white as snow. Ordinary heat will not contract nor expand this particular type.

CONCLUSION: My conclusions are that the Obsidian Perlite Property is very remarkable property; remarkable in many ways; the favorable location as to transportation facilities, the tremendous potential tonnage, with ample acreage for large operations, the fine spring water for domestic purposes

and the ideal climatic conditions.

Water for mining is close at hand and working conditions are very favorable. Skilled labor may be obtained in the district at a minimum wage per day. Geological conditions are favorable for a tremendous deposit. From my survey of the property I believe this occurrence should be persistent and continue to a great depth. The tests so far are very encouraging as to the minerals refractory and endurance merits.

There are good camp and mill sites on the property and plenty of room for tailings disposals.

In conclusion I wish to say that this deposit merits an investigation to determine its possibilities as all main factors lend every encouragement to a large production.

Respectfully submitted,

(SIGNED) L. LEE BOYER, Assayer and Chemist.

COPY

P R E L I M I N A R Y
R E P O R T
SUPERIOR OBSIDIAN GROUP

By: L. Lee Boyer

February 25, 1941

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The country has been considerably influenced by numerous intrusions, causing radical shearing. The principal mineral deposits on the property are perlite and obsidian. The perlite and obsidian occurrences overlie more than forty acres, and large outcroppings and exposures are of the same composition and would indicate a tremendous tonnage.

ANALYSIS: The analysis was made by the writer at the Superior Assay Office and Ore Testing Laboratory. The results of my investigations and findings are as follows: Chalcedony varieties, the study of which shows that this type has a concentric structure and may be a distinct species. The fusibility is characteristic; it is fusible to a vesicular enamel, but this enamel on further heating is infusible.

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There are good camp and mill sites on the property and plenty of room for tailings disposals.

In conclusion I wish to say that this deposit merits an investigation to determine its possibilities as all main factors lend every encouragement to a large production.

Respectfully submitted,

(SIGNED) L. LEE BOYER, Assayer and Chemist.

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

1. Mine *Superior-Obsidian group*
 2. Location *2 miles SW Superior*
 3. Mining District & County *Pioneer Mining District, Pinal Co*
 4. Former name
 5. Owner *L Lee Boyer*
 6. Address (Owner) *Superior*
 7. Operator
 8. Address (Operator)
 9. President, Owning Co.
 9A. President, Operating Co.
 10. Gen. Mgr.
 14. Principal Minerals *Perlite & Obsidian*
 11. Mine Supt.
 15. Production Rate
 12. Mill Supt.
 16. Mill: Type & Cap.
 13. Men Employed
 17. Power: Amt. & Type
 18. Operations: Present *None*

SUPERIOR OBSIDIAN GROUP
 Perlite
 Pinal 11 - 1 T 2 S, R 12 E
 L. Lee Boyer, Rt. 9, Box 445, Phoenix
 unclaimed 9-14-46
 926 E. 13th St., Tempe

19. Operations: Planned
 20. Number Claims, Title, etc. *4 unpatented claims 20 a. each*
 21. Description: Topography & Geography *rugged country with 2800 ft. elevation. Ridge runs NW-SE and rise to maximum of 5500 ft. A.S.L.*
 22. Mine Workings: Amt. & Condition *only discovery holes.*

23. Geology & Mineralization

Country of pre-combustion structure.
doute with quartzite, lower portion metamorphized
siliceous rocks with some and some limestone
and some and granite porphyry.

24. Ore: Positive & Probable, Ore Dumps, Tailings

~~Large tonnage indicated~~

24A. Dimensions and Value of Ore body

perlite and obsidian
occurrences overlie more than 400
indications of a large tonnage

25. Mine, Mill Equipment & Flow-Sheet

good comp and mill sites on
property

26. Road Conditions, Route

highway surfaced within 1/2 m. of property
Magma R.R. 1 1/2 miles from claims.

27. Water Supply

ample spring water for domestic purposes,
water for mining can be developed

28. Brief History

29. Special Problems, Reports Filed

Records filed at Florence, Grand Co.
Title Clear

30. Remarks

Report by L. Lee Boyer on file in office

31. If property for sale: Price, terms and address to negotiate.

For sale - see owner for terms

32. Signature

Snow Report
L. Lee Boyer
Assayer + Chemist

33. Use additional sheets if necessary.

MS-78

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

Date February 25, 1941

- 1. Mine **Superior Obsidian Group**
- 2. Location **2 miles SW of Superior
55 miles from Phoenix
on highways 60 and 89**
- 3. Mining District & County **Pioneer Mining District
Pinal County**
- 4. Former name
- 5. Owner **L. Lee Boyer** ✓
- 6. Address (Owner) **Superior, Arizona**
- 7. Operator
- 8. Address (Operator)
- 9. President, Owing Co.
- 9A. President, Operating Co.
- 10. Gen. Mgr.
- 11. Mine Supt.
- 12. Mill Supt.
- 13. Men Employed
- 14. Principal Minerals **Perlite and Obsidian** ✓
- 15. Production Rate
- 16. Mill: Type & Cap.
- 17. Power: Amt. & Type
- 18. Operations: Present **None**

19. Operations: Planned

20. Number Claims, Title, etc. **4 unpatented claims
20 acres each**

21. Description: Topography & Geography **rugged country with 2800 ft. elevation
Ridges run NW-SE and rise to maximum of
5500 ft. A.S.L.**

22. Mine Workings: Amt. & Condition **Only discovery holes.**

From report of
L. Lee Boyer
Assayer and Chemist.

23. Geology & Mineralization Country of pre-cambrian structure. West ridges composed of poleozoic dacite with quartzite; lower portion metamorphized siliceous rocks with some andicite and granite porphyry, and some limestone.

24. Ore: Positive & Probable, Ore Dumps, Tailings

Date February 25, 1941
Location 2 miles SW of Superior
25 miles from Phoenix
on highways 60 and 89

24A. Dimensions and Value of Ore body

Perlite and obsidian occurrences over more than 40 acres. indications of a large tonnage.

25. Mine, Mill Equipment & Flow-Sheet

Good camp and mill sites on property.

26. Road Conditions, Route

Surfaced Highway within 1/2 mile of property
Magma Railroad 1 1/2 miles from claims

27. Water Supply

Ample spring water for domestic purposes.
Water for mining can be developed.

28. Brief History

29. Special Problems, Reports Filed

Records filed at Florence, Pinal Co.
Title clear.

30. Remarks

Reports by L. Lee Boyer on file in office of Department of Mineral Resources,

31. If property for sale: Price, terms and address to negotiate.

For sale, see owner for terms

32. Signature.....

From report of
L. Lee Boyer
Assayer and Chemist.

33. Use additional sheets if necessary.

PROPERTY OF
SUPERIOR-RAY COPPER CO.
 SUPERIOR, PINAL COUNTY, ARIZONA

SCALE: 1" = 300 FEET



N.E. COR. SECTION 3
 T. 25, R. 12 E. G. & S. R. B. & M.

OFFICE
 OF
 F. N. HOLMQUIST.
 PHOENIX, ARIZ.
 Surveyed 1917
 By
 F. C. KINDERMAN