

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT

ALASKA OCS REGION
(Insert Appropriate Regional Office)

APPLICATION FOR PERMIT TO CONDUCT GEOLOGICAL OR GEOPHYSICAL
PROSPECTING FOR MINERAL RESOURCES OR SCIENTIFIC RESEARCH
ON THE OUTER CONTINENTAL SHELF RELATED TO
MINERALS OTHER THAN OIL, GAS, AND SULPHUR

(Section 11, Outer Continental Shelf Lands Act of August 7, 1953, as amended on September 18, 1978, by Public Law 95-372, 92 Statute 629, 43 U.S.C. 1340; and 30 CFR Part 251)

AuruMar Alaska, Inc.

Name of Applicant
4710 Business Park Blvd Suite F-40

Number and Street
Anchorage, AK 99503

City, State, and Zip Code

Application is made for the following activity: (check one)

- Geological prospecting for mineral resources
- Geological scientific research
- Geophysical prospecting for mineral resources
- Geophysical scientific research

Submit: Original plus three copies, totaling four copies, which include one digital copy, and one public information copy.

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To be completed by BOEM

Permit Number: 12-02 Date: AUG 31 2012

A. General Information

1. The activity will be conducted by:

C&C Technologies, West Coast
 Service Company Name

17706 Brickyard Road
 Number and Street

Bothell, WA 98011
 City, State, and Zip Code

+1 425.408.9190/+1 425.408.9189
 Telephone/FAX Numbers

Laurie.zaleski@cctechnol.com
 E-Mail Address

For AuruMar Alaska, Inc
 Purchaser(s) of the Data

4710 Business Park Blvd Suite F-40
 Number and Street

Anchorage, AK 99503
 City, State, and Zip Code

+27 21 658 3239/ +27 21 658 3354
 Telephone/FAX Numbers

gary.vaneck@aurumar.co.za
 E-Mail Address

2. The purpose of the activity is: Mineral prospecting
 Scientific research

3. Describe your proposed survey activities (i.e., vessel use, benthic impacts, acoustic sources, etc) and describe the environmental effects of the proposed activity, including potential adverse effects on marine life. Describe what steps are planned to minimize these adverse effects (mitigation measures). For example: 1) Potential Effect: Excessive sound level Mitigation: Soft Start, MMOs, mammal exclusion zone or 2) Potential Effect: Bottom disturbance: Mitigation: ROV deployment/retrieval of bottom nodes (use continuation sheets as necessary or provide a separate attachment):
The mv Thunder will be used as the survey platform. The primary geophysical data to be

acquired will be Side Scan Sonar, Swath Bathymetry, Chirp & S-Boom Seismics. Details attache

4. The expected commencement date is: 30 July 2012

The expected completion date is: 31 December 2012

5. The name of the individual(s) in charge of the field operation is: Laurie Zaleski

May be contacted at: C&C Technologies, West Coast

Telephone (Local) +1 425.408.9190 (Marine) _____

Email Address: Laurie.zaleski@cctechnol.co Radio call sign _____

6. The vessel(s) to be used in the operation is (are):

Name (s)	Registry Number(s)	Registered owners)
<u>mv Thunder</u>	_____	_____
_____	_____	_____
_____	_____	_____

7. The port from which the vessel(s) will operate is: Nome

8. Briefly describe the navigation system (vessel navigation only): C&C C-Nav DGPS

Hypack Navigation

B. Complete for Geological Prospecting for Mineral Resources or Geological Scientific Research

1. The type of operation(s) to be used is: (check one)

(a) _____ Deep stratigraphic test, or

(b) _____ Shallow stratigraphic test with proposed total depth of _____, or

(c) _____ Other N/A

2. Attach a page-size plat showing: 1) The generalized proposed location for each test. Where appropriate, a polygon enclosing the test sites may be used and 2) BOEM protraction areas; coastline; point of reference

3. Distance and direction from a point of reference to area of activity N/A

C. Complete for Geophysical Prospecting for Mineral Resources or Geophysical Scientific Research

1. The type(s) of operation(s) to be used is (are):

a) Acquisition method (OBN, OBC, Streamer): High resolution shallow seismics, swath bathymetry

b) Type of acquisition: (High Resolution Seismic, 2D Seismic, 3D Seismic, gravity, magnetic, CSEM, etc. Side Scan Sonar

2. Attach a page-size plat showing:

a) The generalized proposed location of the activity with a representative polygon

b) BOEM protraction areas; coastline; point of reference

c) Distance and direction from a point of reference to area of activity

3. List all energy source types to be used in the operation(s): (Air gun, air gun array(s), sub-bottom profiler, sparker, towed dipole, side scan sonar, etc.): See Attached Technical Note

4. Explosive charges will _____ will not be used. If applicable, indicate the type of explosive and maximum charge size (in pounds) to be used:

Type _____ Pounds _____ Equivalent Pounds of TNT _____

D. Proprietary Information Attachments

Use the appropriate form on page 9 for a "geological" permit application or the form on page 10 for a "geophysical" permit application. You must submit a separate form BOEM-0134 to apply for each geological or geophysical prospecting permit.

E. Certification

I hereby certify that foregoing and attached information are true and correct.

Print Name: William R. Jeffress

SIGNED *William R. Jeffress* DATE July 25, 2012

TITLE Designated Agent

COMPANY NAME: AuruMar Alaska, Inc.
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TO BE COMPLETED BY BOEM

Permit No. 12-02 Assigned by *V. Hoffman* Date 7/25/2012
of BOEM

This application is hereby:

- a. Accepted
- b. Returned for reasons in the attached

The approved permit is:

- a. Attached
- b. Will be forwarded at a later date

SIGNED *Paul F. Woot* TITLE Regional Supervisor DATE 8/31/12