

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT**

(Insert Appropriate BOEM Office)

**Requirements for Geological and Geophysical Prospecting,
Noncommercial Exploration, or
Scientific Research on the Outer Continental Shelf
Related to Minerals Other than Oil, Gas, and Sulphur**

**Application to Conduct
Geological or Geophysical Prospecting or Noncommercial Exploration
or Notice of Scientific Research
Related to Minerals Other than Oil, Gas, and Sulphur
on the Outer Continental Shelf**

(Attachment 1)

**Nonexclusive Use Agreement for
Noncommercial Exploration or Scientific Research**

(Attachment 2)

SUBMIT: Provide one original, one copy of the original, one digital copy, and one public copy (all with original signatures), or contact BOEM for further instruction on digital only and digital signature applications.

Paperwork Reduction Act of 1995 (PRA) Statement: The PRA (44 U.S.C. Chapter 35 *et seq.*) requires us to inform you that the Bureau of Ocean Energy Management (BOEM) collects this information to evaluate applications to conduct prospecting, noncommercial exploration, or scientific research activities permitted or authorized by BOEM and to monitor activities of scientific research activities conducted under notices. BOEM uses the information to evaluate the potential for environmental harm or damage, hazardous or unsafe conditions, disturbance to historical or cultural sites, or interference with other uses. Information requested in this form is required to obtain or retain a benefit. An agency may not conduct or sponsor, and a person is not required to respond to, a collection of information unless it displays a currently valid Office of Management and Budget Control Number. The reporting burden for this form is estimated to average 88 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct your comments regarding the burden estimate or any other aspect of this form to the Information Collection Clearance Officer, Bureau of Ocean Energy Management, 45600 Woodland Road, Sterling, Virginia 20166.

**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT
REQUIREMENTS FOR GEOLOGICAL AND GEOPHYSICAL PROSPECTING,
NONCOMMERCIAL EXPLORATION,
OR SCIENTIFIC RESEARCH ON THE OUTER CONTINENTAL SHELF
RELATED TO MINERALS OTHER THAN OIL, GAS, AND SULPHUR**

Authority

You must perform all geological and geophysical prospecting, noncommercial exploration, or scientific research activities authorized and conducted on the Outer Continental Shelf (OCS) according to the OCS Lands Act, 30 CFR Part 580, as applicable, and other applicable Federal statutes and regulations, as amended.

General Requirements of Permits, Authorizations, and Notices

You must conduct geological and geophysical prospecting, noncommercial exploration, or scientific research activities authorized under Section 11 of the OCS Lands Act, 30 CFR Part 580, as applicable, and in compliance with all applicable mitigation measures so that those activities do not:

- A. Interfere with or endanger operations under any lease, right-of-way, easement, right-of-use, notice, or permit issued or maintained under the OCS Lands Act;
- B. Cause harm or damage to aquatic life or to the marine, coastal, or human environment;
- C. Cause harm or damage to any mineral resources;
- D. Cause pollution;
- E. Disturb archaeological resources;
- F. Create hazardous or unsafe conditions; or,
- G. Unreasonably interfere with or harm other uses of the area (including submarine cables).

Any person conducting geological or geophysical prospecting, noncommercial exploration, or scientific research activities under Section 11 of the OCS Lands Act and 30 CFR Part 580, as applicable, must immediately notify BOEM if you:

- A. Detect hydrocarbon and/or mineral occurrences;
- B. Encounter environmental hazards which constitute an imminent threat to human activity; or,
- C. Are aware of activities which adversely affect the environment, aquatic life, archaeological resources, or other uses of the area in which you are conducting prospecting, noncommercial exploration, or scientific research activities.

Any person conducting shallow or deep stratigraphic test drilling activities under a permit for prospecting or scientific research under 30 CFR Part 580 must utilize the best available and safest technologies that BOEM determines to be economically feasible.

The authorization BOEM grants you under Section 11 of the OCS Lands Act and 30 CFR Part 580, as applicable, to conduct geological and geophysical prospecting, noncommercial exploration, or scientific research activities does not confer a right to any discovered oil, gas, or other minerals, or to a lease under the OCS Lands Act.

Time Restriction for Permits, Authorizations, and Notices

Activities are approved for a specified period and typically do not exceed 5 years. Permits may be issued for shorter periods of time and extended as appropriate.

Geological and Geophysical Activities Requiring Permits, Authorizations, and Notices

Geological and Geophysical Prospecting or Noncommercial Exploration for Mineral Resources

You may not conduct geological and geophysical prospecting or noncommercial exploration for minerals other than oil, gas, and sulphur in the OCS without an approved permit or authorization unless you conduct such activities under a lease issued or maintained according to the OCS Lands Act. You must obtain separate permits or authorizations for either geological or geophysical prospecting or noncommercial exploration for mineral resources. If BOEM disapproves your application, the statement of rejection will give the reasons for the denial and will advise you of any changes needed for you to obtain approval.

Geological and Geophysical Scientific Research Activities

You should not conduct geological and geophysical scientific research activities related to minerals other than oil, gas, and sulphur in the OCS without filing of a notice. You must obtain a permit for geological and geophysical scientific research which involves the use of solid or liquid explosives or the drilling of a deep stratigraphic test. If BOEM disapproves your application, the statement of rejection will give the reasons for the denial and will advise you of any changes needed for you to obtain approval.

You should file a notice with BOEM at least 30 days before you begin scientific research activities not requiring a permit. BOEM may inform you of environmental laws and regulations pertaining to activities on the OCS.

BOEM recommends that you submit your notice 90-120 days prior to beginning your work to ensure timely review of your notice by BOEM. If you cannot file a 30-day notice, you must provide oral notification before you begin and follow up in writing (30 CFR 580.11(b)).

Information Required for Applications

You must complete the applicable sections of the Application (Attachment 1) and include a public-information, page-size map(s) showing the location of the proposed area of activity (Section B.2 or Section C.2). In addition, you must submit the appropriate attachment(s) to Section D of the Application. This includes a detailed map of the proposed activity for Section D (Geological Application) or Section D (Geophysical Application).

Only applicants for a *Notice of Scientific Research* or *Noncommercial Exploration Authorization* must complete a Nonexclusive Use Agreement (Attachment 2).

The information you provide on the Application (excluding Section D of a permit application) and on the Nonexclusive Use Agreement, including continuation sheets and the page-size map(s), is PUBLIC INFORMATION. These non-proprietary portions of the Application constitute the "public information" copy of Form BOEM-0134 and will be made available to the public with the executed permit.

The information listed in section D is PROPRIETARY INFORMATION, unless you plan to conduct noncommercial exploration or scientific research. BOEM will not make this information available to the public without your consent for a period mandated by law or regulation. However, BOEM may determine that earlier release is necessary to properly develop the area permitted (30 CFR 580.70-73).

Modifications to Approved Permits or Authorizations

BOEM must approve any modification to the permitted or authorized operations.

Filing Locations for Applications to Conduct Prospecting or Noncommercial Exploration for Mineral Resources and for Permits or Notices to Conduct Scientific Research

Provide one original, one copy of the original, one digital copy, and one public copy (all with original signatures) at the following locations at least 30 days before you begin operations. Alternatively, contact BOEM for further instruction on digital only and digital signature applications. BOEM recommends that you submit your notice (or application) 90-120 days prior to beginning your work to ensure timely review of your notice by BOEM.

A. For the OCS off the State of Alaska:

Regional Supervisor for Resource Evaluation
Bureau of Ocean Energy Management Alaska OCS Region
3801 Centerpoint Dr., Suite #500
Anchorage, Alaska 99503-5823

B. For the OCS off the Atlantic Coast, Puerto Rico, and U.S. Territories in the Caribbean Sea:

Chief, Marine Minerals Division
Bureau of Ocean Energy Management Office of Strategic Resources
45600 Woodland Road
Sterling, Virginia 20166-9216

C. For the OCS in the Gulf of Mexico:

Regional Supervisor for Resource Evaluation
Bureau of Ocean Energy Management
Gulf of Mexico OCS Region 1201 Elmwood Park Boulevard
New Orleans, Louisiana 70123-2394

D. For the OCS off the States of California, Oregon, Washington, or Hawaii and other U.S. Territories in the Pacific Ocean:

Regional Supervisor for Office of Strategic Resources
Bureau of Ocean Energy Management
Pacific OCS Region
760 Paseo Camarillo, Suite #102
Camarillo, California 93010-6092

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT**

(Insert Appropriate BOEM Office)

**APPLICATION TO CONDUCT GEOLOGICAL OR GEOPHYSICAL PROSPECTING
OR NONCOMMERCIAL EXPLORATION
OR NOTICE OF SCIENTIFIC RESEARCH
RELATED TO MINERALS OTHER THAN OIL, GAS, AND SULPHURON THE OUTER
CONTINENTAL SHELF**

(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 Parts 580 and 280, as applicable)

Name of Applicant

Number and Street

City, State, and Zip Code

Application is made for the following activity:

- ☐ Geological prospecting or noncommercial geological exploration
- ☐ Geological scientific research
- ☐ Geophysical prospecting or noncommercial geophysical exploration
- ☐ Geophysical scientific research

Submit: Provide one original, one copy of the original, one digital copy, and one public copy (all with original signatures), or contact BOEM for further instruction on digital only and digital signature applications.

To be completed by BOEM

Permit or Authorization Number: _____ **Date:** _____

A. General Information. *Complete this section for all applications.*

1. The activity will be conducted by:

_____ Applicant Name	_____ Purchaser(s)/User(s)/Sponsor(s) of Data
_____ Number and Street	_____ Number and Street
_____ City, State, and Zip Code	_____ City, State, and Zip Code
_____ Telephone/FAX Numbers	_____ Telephone/FAX Numbers
_____ E-Mail Address	_____ E-Mail Address

2. The purpose of the activity is:

- ☐ Prospecting (Permit)
- ☐ Noncommercial Exploration (Authorization)
- ☐ Scientific Research (Permit)
- ☐ Scientific Research (Notice)

3. Describe your proposed survey activities (i.e., vessel use, geological operations, geophysical sources, etc.) and describe the potential environmental effects of the proposed activities, including potential adverse effects on marine life. Describe what steps you plan to take to minimize these adverse effects (mitigation measures). For example: 1) *Potential Effect*: Bottom disturbance; *Mitigation*: Assisted deployment/ retrieval of vibracoring rigs, or 2) *Potential Effect*: Sound levels causing disturbance; *Mitigation*: Marine Mammal Observers, marine mammal exclusion zone. Provide information in a separate attachment. Label as “BOEM-0134 Section A General Information.”

4. The expected commencement date is: _____

The expected completion date is: _____

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

May be contacted at:

Telephone (Local) _____ Telephone (Marine) _____

Email Address: _____ Radio call sign _____

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

Name(s)	Registry Number(s)	Registered Owner(s)
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

8. Briefly describe the navigation system (vessel navigation only): _____

B. Information for Geological Applications. *Complete for Geological Prospecting, Noncommercial Geological Exploration, or Geological Scientific Research.*

1. The type of operation is

<input type="checkbox"/>	Deep stratigraphic test	<i>More than 500 feet (152 m)</i>
<input type="checkbox"/>	Shallow stratigraphic test	proposed total depth of: _____
<input type="checkbox"/>	Vibracoring	proposed total depth of: _____
<input type="checkbox"/>	Other	proposed total depth of: _____

2. Attach a page-size map showing: 1) the proposed location for each sample or test. Where appropriate, a polygon enclosing the sampling or test sites may be used, 2) OCS protraction areas and lease blocks; coastline; point of reference; Submerged Lands Act boundary, 3) distance and direction from a point of reference to area of activity, and 4) label as "Public Information."

C. Information for Geophysical Applications. *Complete for Geophysical Prospecting, Noncommercial Geophysical Exploration, Geophysical Scientific Research.*

1. For the proposed operation:

(a) Acquisition method (Towed instrument, vessel mounted, OBN, OBC, Streamer):

(b) Type of acquisition (Geophysical source type: chirp or sub-bottom profiler, side scan sonar, fathometer, other high resolution seismic, gravity, magnetic, other controlled-source electromagnetic, etc.):

2. Attach a page-size map showing: 1) the proposed location for the activity with a representative polygon, 2) OCS protraction areas and lease blocks; coastline; point of reference; Submerged Lands Act boundary, 3) distance and direction from a point of reference to area of activity, and 4) label as "Public Information."

3. List all energy source types to be used in the operation(s): (chirp or sub-bottom profiler, side scan sonar, fathometer, air gun or air gun array(s), towed dipole, etc.):

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. Additional Information Attachment. *Complete for prospecting, noncommercial exploration, and scientific research. Information may be proprietary for permit applications.*

Use the appropriate form on page 10 for a "geological" permit or authorization application, or the form on page 11 for a "geophysical" permit or authorization application. You must submit a separate form BOEM-0134 to apply for each geological or geophysical prospecting permit or exploration authorization unless the activities are related or will be conducted concurrently.

E. Certification

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

PRINT NAME _____

SIGNED _____ **DATE** _____

TITLE _____

APPLICANT _____

To be completed by BOEM

Permit / Authorization No. _____ **Assigned by** _____ **Date** _____
of BOEM

This application is hereby:

☐ Accepted

☐ Returned for the reasons attached

SIGNED _____ **TITLE** _____ **DATE** _____

Section D Additional Information Attachment for Geological Applications

Complete this section for all geological applications. If requesting an Authorization, label separate attachments as "BOEM-0134 Section D Additional Information Attachment" and "Public." If requesting a Permit, label separate attachments as "BOEM-0134 Section D Additional Information Attachment" and "Proprietary."

1. Description of proposed coring, drilling, or sampling method. Include penetration, heat flow measurements, and depth of penetration:

2. Description of coring, drilling, or sampling equipment to be used:

3. List proposed coring, drilling, or sample location(s) with latitude and longitude coordinates and total number of samples to be acquired. These locations may be sent digitally (attach separate page if necessary):

4. Navigation system or method to be used to position sample locations:

5. Method of sample, storage, and handling:

6. List each test to be conducted on the samples with a brief description of its objective:

7. Estimated date on which samples, logs, and analyzed and/or processed data will be ready for inspection:

8. Attach map(s), plat(s), and chart(s) (preferably at a scale of 1:250,000) and/or an electronic version of same showing latitude and longitude, scale, OCS protraction areas, OCS blocks, Submerged Lands Act boundary, and specific sample location(s) in latitude(s) and longitude(s) for each of the proposed sample site(s). The map, plat, or chart should be submitted at a sufficient size and scale to make out all details of the activities shown. Label the map "Public" if the data are for noncommercial exploration or scientific research. Label the hardcopy map "Proprietary" if the data are for commercial purposes and are considered proprietary. Along with the hardcopy map, submit the ArcGIS shapefiles (and metadata) needed to reproduce the map of the proposed sample site(s), including individual site names in the attribute table.

Section D Additional Information Attachment for Geophysical Applications

Complete this section for all geophysical applications. If requesting an Authorization, label separate attachments as "BOEM-0134 Section D Additional Information Attachment" and "Public." If requesting a Permit, label separate attachments as "BOEM-0134 Section D Additional Information Attachment" and "Proprietary."

- Detailed narrative, modeling of sound propagation, and visual description of the geophysical energy source(s) and receiver(s)/streamer(s) (receiving array):

- Attach a map view diagram that illustrates vessel(s) source and receiver(s) configuration. Label each vessel indicating its function and include the dimensions of tow fish, hull or davit-mounted instruments, streamer(s), etc. Indicate the number of chase and alternate vessels to be used, if applicable.
- List each energy source to be used (e.g., chirp profiler, sub bottom profiler, side scan sonar, fathometer, air gun or air gun array(s), towed dipole, etc.). Indicate the source's manufacturer, model, Source Level (SL) in dB re 1μPa @1m in water (RMS), and, if applicable, Source Level (SL) in dB re 1μPa @1m in water (Peak to Peak). If the manufacturer does not provide a peak-to-peak level (many side scan sonars, etc.), please enter N/A. Additionally, provide the operational frequency ranges and any operational power settings.

Energy Source	Manufacturer	Model	Array or Airgun Size (cu. in.)	Source Level (SL) in dB re 1μPa @1m in water (RMS)	Source Level (SL) in dB re 1μPa @1m in water (Peak to Peak)	Frequency (Hz-kHz range)	Power Modulation	Pulse Length

For any geophysical source operating below 180kHz, provide the transmission loss distance from the sound source to the following SPL in RMS dB levels:

dB level	Distance from Sound Source
190 dB	
180 dB	
160 dB	

- Shot (energy pulse) frequency per linear mile (statute):

- Towing depth (ft/m) of the energy source:

- Towing depth (ft/m) of the receiver(s):

7. For controlled-source electromagnetic (CSEM), ocean bottom node (OBN), magnetotelluric, ocean bottom cable (OBC) surveys, or marine resistivity surveys describe the node deployment and retrieval procedures. Indicate the location (latitude and longitude coordinates), number, and spacing of any ocean bottom receivers, cables, nodes, and anchors. If anchors will not be retrieved, provide the physical composition and rate of decomposition. Location data may be submitted digitally (attach separate page if necessary).
8. Navigation/positioning system, and if relevant, method used to position shotpoint locations and or ocean bottom receivers:

9. Proposed total number of line miles proposed for survey or areal extent (blocks) for survey:

10. Estimated date (month and year) on which final data will be available for all proposed data sets:

11. Attach map(s), plat(s), and chart(s) (preferably at a scale of 1:250,000) and/or an electronic version of same showing latitude and longitude, scale, OCS protraction areas, OCS blocks, and Submerged Lands Act boundary. The map, plat, or chart should be submitted at a sufficient size and scale to make out all details of the activities shown. Label the map "Public" if the data are for noncommercial exploration or scientific research. Label the hardcopy map "Proprietary" if the data are for commercial purposes and are considered proprietary. For 2D data acquisition, provide specific track lines with line identifications with the total number of line miles proposed. For 3D data acquisition, provide a representative polygon and total number of blocks. Along with the hardcopy map, submit the ArcGIS shapefiles (and metadata) needed to reproduce the map for 2D track lines and include individual line names in the attribute table. For 3D surveys, submit the ArcGIS shapefile (and metadata) for the representative polygon.

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(Insert Appropriate BOEM Office)

**NONEXCLUSIVE USE AGREEMENT FOR
SCIENTIFIC RESEARCH OR NONCOMMERCIAL EXPLORATION
ON THE OUTER CONTINENTAL SHELF**

*Complete this section for Scientific Research Notices or Noncommercial Exploration Authorizations.
Do not complete for Permits.*

- A. State the time and manner in which data and information resulting from the proposed activity will be made available to the public for inspection and reproduction, such time being the earliest practicable time.

- B. _____ (applicant) agrees that the data and information resulting from the proposed activity will not be sold or withheld for exclusive use.

(Signature of Applicant)

(Print Name of Applicant)

(Title)

(Date)

Submit: Provide one original, one copy of the original, one digital copy, and one public copy (all with original signatures), or contact BOEM for further instruction on digital only and digital signature applications.