OMB Control No.: 1010-0072 Expiration Date 06/30/2018

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

(Insert Appropriate Regional Office)

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

Application for Permit or Authorization to Conduct Geological or Geophysical Prospecting or Exploration for Mineral Resources or Notice of Scientific Research on the Outer Continental Shelf Related to Minerals Other than Oil, Gas, and Sulphur

Nonexclusive Use Agreement for Scientific Research

SUBMIT: Two originals, one digital copy, and one public copy (all with original signatures).

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 for permits or authorizations to conduct pre-lease prospecting or exploration offshore and to monitor activities of scientific research conducted under notices. BOEM uses the information to ensure there is no environmental degradation, personnel harm, damage to historical or cultural sites, or interference with other uses. Responses are 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, 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, 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 and Notices

You must conduct geological and geophysical activities for mineral prospecting, 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 or right-of-way 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 pollution;
- D. Create hazardous or unsafe conditions;
- E. Unreasonably interfere with or harm other uses of the area (including submarine cables); or
- F. Disturb archaeological resources.

Any person conducting geological or geophysical activities for mineral prospecting, exploration or scientific research under Section 11 of the OCS Lands Act and 30 CFR Part 580, as applicable, must immediately report to us 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 or scientific research activities.

Any person conducting shallow or deep stratigraphic test drilling activities under a permit for mineral 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 or exploration for minerals other than oil, gas, and sulphur or for scientific research 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

We limit the term of a permit or authorization to a period not to exceed 3 years but we issue it in 1-year increments. We limit extensions to a period of not more than two 1-year extensions from the initial termination date of the permit.

Geological and Geophysical Activities Requiring Permits, Authorizations, and Notices Geological and Geophysical Prospecting for Mineral Resources

You may not conduct geological and geophysical prospecting or 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 exploration for mineral resources. If BOEM disapproves an application, the statement of rejection will give the reasons for the denial and will advise the applicant of those changes needed for you to obtain approval.

Geological and Geophysical Scientific Research

You may not conduct geological and geophysical scientific research related to minerals other than oil, gas, and sulphur in the OCS without an approved permit or filing of a notice. You must obtain separate permits 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 the applicant of the changes needed for you to obtain approval.

You must file a notice with BOEM at least 30 days before you begin scientific research not requiring a permit. We may inform you of all environmental laws and regulations pertaining to 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

Information Required for Permits or Authorizations

Each applicant for a permit or authorization must complete the applicable sections of the Application for Permit or Authorization (Attachment 1) and must include a public-information, page-size plat(s) showing the location of the proposed area of activity (Section B.2 or C.1). In addition, each applicant for a geological or geophysical permit or authorization must submit the appropriate attachment to section D of the application. This includes a detailed map of the proposed activity for Section D.8 (Geological Application) or Section D.12 (Geophysical Application). Only applicants for a *Notice of scientific research* must complete a Nonexclusive Use Agreement (Attachment 2).

The information you provide on the Application for Permit or Authorization (excluding section D) and on the Nonexclusive Use Agreement, including continuation sheets and the page-size plat(s), is NON-PROPRIETARY INFORMATION. These non-proprietary portions of the application constitute the "public information" copy of Form BOEM-0134 and with the executed permit we will make them available to the public

The information listed in section D is PROPRIETARY INFORMATION. We will not make this information available to the public without the consent of the applicant/permittee for a period mandated by law or regulation. However, we may determine that earlier release is necessary to properly develop the area permitted.

Modifications to Approved Permits or Authorizations

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

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

File two originals, one digital copy, and one public copy (all with original signatures) at the following locations at least 30 days before you begin operations. 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 in the Gulf of Mexico, off the Atlantic Coast, Puerto Rico, and U.S. Territories in the Caribbean Sea:

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

C. For the OCS off the States of California, Oregon, Washington, or Hawaii and other Pacific Federal Territories:

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

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APPLICATION FOR PERMIT OR AUTHORIZATION TO CONDUCT GEOLOGICAL OR GEOPHYSICAL PROSPECTING OR EXPLORATION FOR MINERAL RESOURCES OR NOTICE OF 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 Parts 580 and 280, as applicable) Name of Applicant Number and Street City, State, and Zip Code **Application is made for the following activity: (check one)** ____Geological prospecting or exploration for mineral resources Geological scientific research Geophysical prospecting or exploration for mineral resources ____Geophysical scientific research Submit: Original plus three copies, totaling four copies, which include one digital copy, and one public information copy. To be completed by BOEM Permit Number: _____ Date: _____

A. General Information

•	The activity will be conducted by:	
	Service Company Name	Purchaser(s)/User(s) of the 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
		neral prospecting or exploration
•	Describe your proposed survey activities (i.e., vedescribe the environmental effects of the propose marine life. Describe what steps are planned to not be a survey activities.	ninimize these adverse effects (mitigation measure
•	Describe your proposed survey activities (i.e., verdescribe the environmental effects of the propose marine life. Describe what steps are planned to a For example: 1) Potential Effect: Excessive sour mammal exclusion zone or 2) Potential Effect: B	ssel use, benthic impacts, acoustic sources, etc.) and activity, including potential adverse effects on minimize these adverse effects (mitigation measure ad level; Mitigation: Marine Mammal Observers,
	Describe your proposed survey activities (i.e., verdescribe the environmental effects of the propose marine life. Describe what steps are planned to a For example: 1) Potential Effect: Excessive sour mammal exclusion zone or 2) Potential Effect: Bedeployment/retrieval of vibracoring rigs (use con	ssel use, benthic impacts, acoustic sources, etc.) and activity, including potential adverse effects on minimize these adverse effects (mitigation measure ad level; Mitigation: Marine Mammal Observers, ottom disturbance; Mitigation: ROV tinuation sheets as necessary or provide a separate
	Describe your proposed survey activities (i.e., verdescribe the environmental effects of the propose marine life. Describe what steps are planned to a For example: 1) Potential Effect: Excessive sour mammal exclusion zone or 2) Potential Effect: Bedeployment/retrieval of vibracoring rigs (use con attachment):	ssel use, benthic impacts, acoustic sources, etc.) and activity, including potential adverse effects on minimize these adverse effects (mitigation measure ad level; Mitigation: Marine Mammal Observers, ottom disturbance; Mitigation: ROV tinuation sheets as necessary or provide a separate
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	7.	The port from which the vessel(s) will operate is:
	8.	riefly describe the navigation system (vessel navigation only):
В.		plete for Geological Prospecting or Exploration for Mineral Resources or ogical Scientific Research
	1.	he 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)	Vibracoring
	(d)	Other
	app	tach a page-size plat showing: 1) The generalized proposed location for each test. Where priate, a polygon enclosing the test sites may be used and 2) BOEM protraction areas; coastline; of reference
	3. I	stance and direction from a point of reference to area of activity
	4. I	bel as "Public Information"
C.	1. I (a)	plete for Geophysical Prospecting or Exploration for Mineral Resources or chysical Scientific Research r the proposed operation: cquisition method (OBN, OBC, Streamer):
		ype of acquisition: (High Resolution Seismic, 2D Seismic, 3D Seismic, gravity, magnetic, CSEM,
	(a) (b) (c)	tach a page-size plat showing: he generalized proposed location of the activity with a representative polygon OEM protraction areas; coastline; point of reference istance and direction from a point of reference to area of activity abel as "Public Information."
		st all energy source types to be used in the operation(s): (Air gun, air gun array(s), sub-bottom er, sparker, towed dipole, side scan sonar, etc.):
		plosive charges will will not be used. If applicable, indicate the type of explosive aximum charge size (in pounds) to be used:
		vne Pounds Equivalent Pounds of TNT

D. Proprietary Information Attachments

E. Certification

Use the appropriate form on page 9 for a "geological" permit or authorization application or the form on page 10 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.

I hereby certify that for	regoing and attached information	tion are true and correct.	
Print Name:			
SIGNED		DATE _	
TITLE			
COMPANY NAME:_ ====			
	TO BE COMPLE	TED BY BOEM	
Permit No	Assigned by	of BOEM	Date
This application is hereby	:		
a Accepted			
b Returned for	or reasons in the attached		
The approved permit or a	nuthorization is:		
a Attached			
b Will be forw	warded at a later date		
SIGNED	TITLE	Regional Supervisor	_ DATE

Section D Proprietary Information Attachment Required for an Application for Geological Prospecting Permit or Exploration Authorization

1.	Description of proposed coring, drilling or sampling method. Include 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 their latitude and longitude coordinates and the total number of samples to be acquired. These locations may be sent digitally on a CD (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, protraction areas, specific block numbers, 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 hardcopy map "Proprietary," if the data are for commercial purposes and are considered proprietary. Along with the hardcopy map, submit on CD, the ArcGIS shapefiles needed to reproduce the map of the proposed sample site(s) including individual site names in the attribute table.

Section D Proprietary Information Attachment Required for an Application for Geophysical Prospecting Permit or Exploration Authorization

nction and ir lternate vess se to be used c.). Indicate RMS) and if	(e.g., airgu the source applicable,	an, airgun ar s's manufact Source Leva peak to pea	Source Level (SL) in dB re	cowed dipole, s arce Level (SL) 1μPa @1m in	ide scan sona in dB re water (Peak to
c.). Indicate RMS) and if a turer does no lly, provide the	the source applicable, of provide a he operation	Source Leva peak to pe	rurer, model, Source (SL) in dB reak level (many stronges. Source Level (SL) in dB re	rrce Level (SL) 1μPa @1m in ide scan sonars	in dB re water (Peak to the text), please
nufacturer	Model	or	(SL) in dB re		
		Size (cu. in.)	1μPa @1m in water (RMS)	in dB re 1µPa @1m in water (Peak to Peak)	(Hz-kHz range)
					n surveys m
Maximun	n Distance	from Sour	ce		
f	or Alaska Rece during ac	or Alaska Region; GC ce during acquisition; Maximum Distance	or Alaska Region; GOM Region of the during acquisition; Not required Maximum Distance from Sour	or Alaska Region; GOM Region only requires this ce during acquisition; Not required for Atlantic pe Maximum Distance from Source	provide the maximum distance from the sound source to the follow of Alaska Region; GOM Region only requires this information for eduring acquisition; Not required for Atlantic permits). Maximum Distance from Source uency per linear mile (statute):

	necessary).
8.	Navigation/positioning system or method used to position shotpoint locations and or ocean bottom receivers:
9.	Proposed areal extent (blocks) for 3D surveys or total number of line miles proposed for 2D or high resolution survey:
10.	Estimated date (month and year) on which final data will be available for all proposed data sets:

7. CSEM, OBN, Magnetotelluric, and OBC surveys: Describe the node deployment and retrieval

procedures. Indicate the location (latitude and longitude coordinates), number and spacing of any ocean bottom receivers, cables, and anchors. If anchors will not be retrieved, provide their physical composition and rate of decomposition. Location data may be submitted digitally on a CD (attach separate page if

11. Attach map(s), plat(s), and chart(s) (preferably at a scale of 1:250,000) and an electronic version of same showing latitude and longitude, scale, specific protraction areas, block numbers. The map, plat, or chart should be submitted at a sufficient size and scale to make out all details of the activities shown. The map should be labeled "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 or a representative polygon and total number of blocks for 3D surveys. Along with the hardcopy map, submit on CD, the necessary ArcGIS shapefiles to reproduce the map for 2D track lines including individual line names in the attribute table. For 3D surveys provide a representative polygon as an ArcGIS shapefile.

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF OCEAN ENERGY MANAGEMENT

(Insert Appropriate Regional Office)

NONEXCLUSIVE USE AGREEMENT FOR SCIENTIFIC RESEARCH ON THE OUTER CONTINENTAL SHELF

made available to the public for hispect	tion and reproduction, such time being the earliest practicable t
rom the proposed activity will not be so	
rom the proposed activity will not be so	
rom the proposed activity will not be so	sold or withheld for exclusive use.
From the proposed activity will not be so	(Signature of Applicant)

Submit: Two originals, one digital copy, and one public copy (all with original signatures).