

Public

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF OCEAN ENERGY MANAGEMENT

Gulf of Mexico OCS Region

(Insert Appropriate Regional Office)

APPLICATION FOR PERMIT TO CONDUCT GEOLOGICAL OR GEOPHYSICAL  
EXPLORATION FOR MINERAL RESOURCES OR SCIENTIFIC RESEARCH  
ON 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 251 and 551)

Spectrum Geo Inc

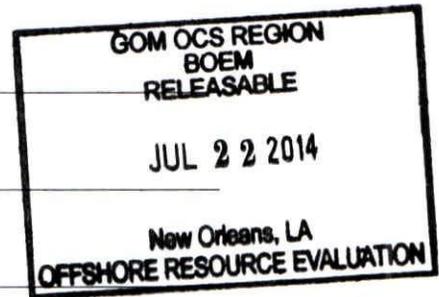
Name of Applicant

16225 Park Ten Place

Number and Street

Houston, Texas 77084

City, State, and Zip Code



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

\_\_\_\_\_ Geological exploration for mineral resources

\_\_\_\_\_ Geological scientific research

Geophysical 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.

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To be completed by BOEM

Permit Number:

E14-006

Date:

08-May-2014

**A. General Information**

1. The activity will be conducted by:

To Be Determined	For	Spectrum Geo Inc
_____		_____
Service Company Name		Purchaser(s) of the Data
_____		_____
Address		16225 Park Ten Place
_____		_____
City, State, Zip		Houston, Texas 77084
_____		_____
Telephone/FAX Numbers		(281) 647 0602
_____		_____
E-Mail Address		Houston_ops@spectrumasa.com
_____		_____

*Goes to Mike Saunders  
Knut Fostad and  
one other person  
Mike, Saunders@spectrumasa.com*

2. The purpose of the activity is:  Mineral exploration  
 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):

2D seismic survey with air gun array. (See attached Appendix 1 for mitigation measures)

4. The expected commencement date is: November 15th, 2014

The expected completion date is: November 14th, 2015

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

Knut Fostad / Mike Saunders

May be contacted at:

Spectrum Geo Inc / 16225 Park Ten Place / Houston, TX 77084

Telephone (Local) (281) 647 0602 (Marine) TBD

Email Address: Houston\_ops@spectrumasa.com Radio call sign TBD

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

Name (s) TBD	Registry Number(s) TBD	Registered owners) TBD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

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

GPS with Integrated Navigation System  
 \_\_\_\_\_  
 (Spectra or equivalent)  
 \_\_\_\_\_

**B. Complete for Geological Exploration for Mineral Resources or Geological Scientific Research**

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

- (a) \_\_\_\_\_ Deep stratigraphic test, or
- (b) \_\_\_\_\_ Shallow stratigraphic test with proposed total depth of \_\_\_\_\_, or
- (c) \_\_\_\_\_ Other \_\_\_\_\_

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, 2) BOEM protraction areas; coastline; point of reference; 3) Distance and direction from a point of reference to area of activity.

\_\_\_\_\_

**C. Complete for Geophysical Exploration for Mineral Resources or Geophysical Scientific Research**

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

- a) Acquisition method (OBN, OBC, Streamer): Streamer
- b) Type of acquisition: (High Resolution Seismic, 2D Seismic, 3D Seismic, gravity, magnetic, CSEM, etc.)  
2D Seismic, Gravity and Magnetometer Data

\_\_\_\_\_

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.).

4,000 in3 to 4,920 in3 air gun array

Operating Pressure: 2,000 psi

4. Explosive charges will \_\_\_\_\_ will not  X  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 11 for a "geophysical" permit application. You must submit a separate Form BOEM-0327 to apply for each geological or geophysical permit.



**E. Certification**

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

Print Name: Richie Miller

SIGNED [Signature]

DATE 30-Apr-2014

TITLE President

COMPANY NAME: \_\_\_\_\_

**TO BE COMPLETED BY BOEM**

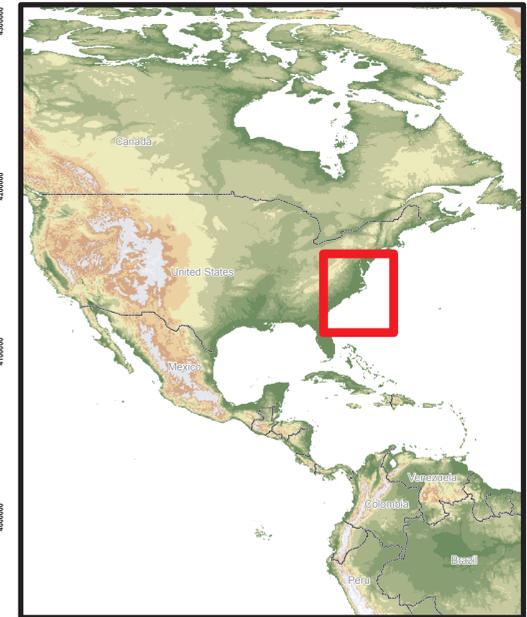
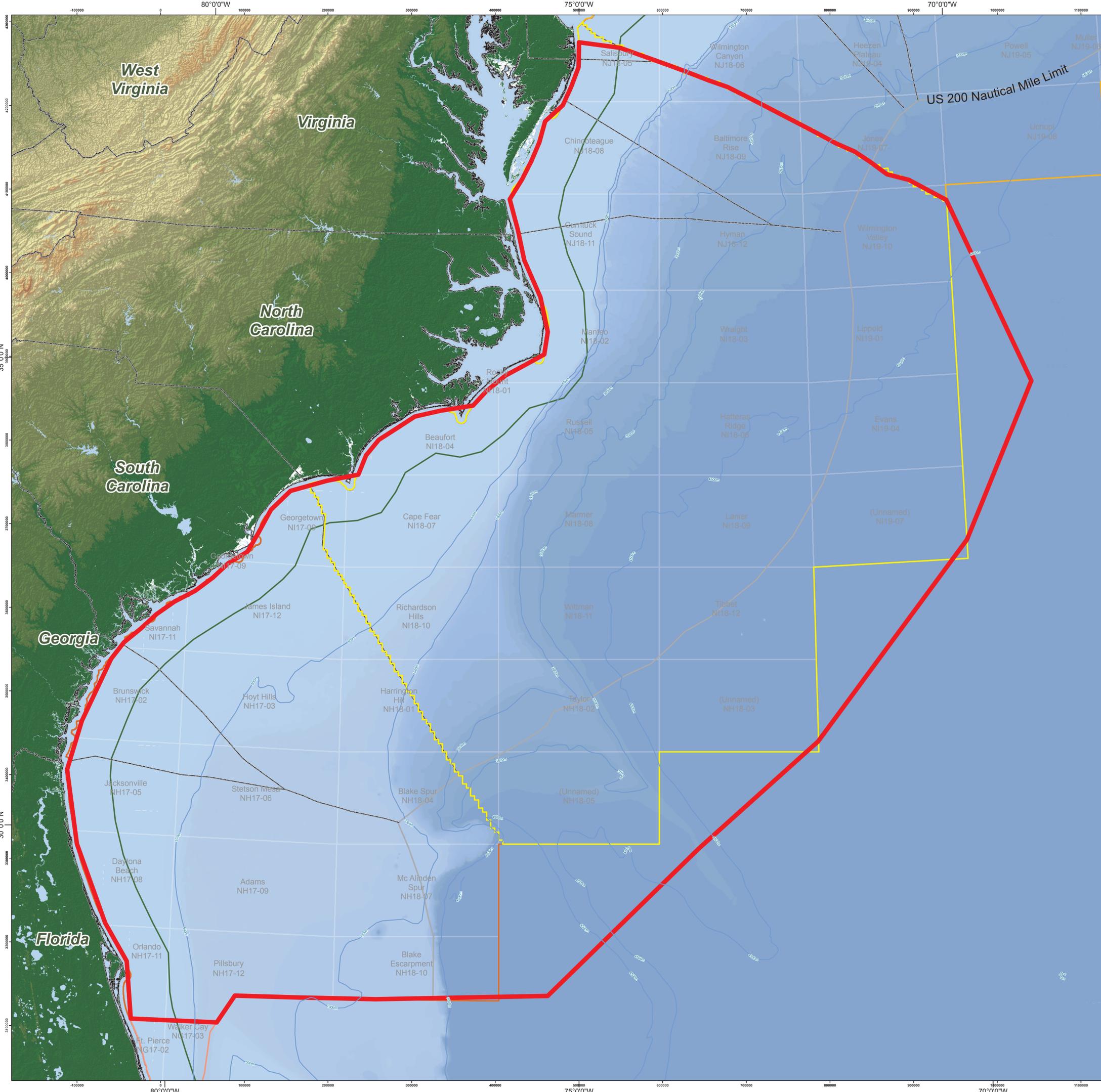
Permit No. E14-006 Assigned by W. Chad Vaughan Date 03-Jun-2014  
of BOEM

This application is hereby:

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

SIGNED [Signature] TITLE Regional Supervisor DATE 6/3/14

# US Atlantic Phase 1 Survey



Legend	Planning Areas
Permit Polygon	NGA - North Atlantic
Atlantic Administrative Boundaries	MDA - Mid Atlantic
50 km seaward of the fedstate line	SOA - South Atlantic
US 200 Nautical Mile Limit	FLS - Straits of Florida
SLA	

Scale: 1:1,500,000

0 25 50 100 Nautical Miles

0 25 50 100 150 200 Kilometers

North arrow pointing up.

**Coordinate System: WGS 1984 UTM Zone 18N**  
Central Meridian: 75°0'0"W

WGS\_1984\_UTM\_Zone\_18N  
WKID: 32618 Authority: EPSG

Projection: Transverse Mercator  
False Easting: 500000.0  
False Northing: 0.0  
Central Meridian: -75.0  
Scale Factor: 0.9996  
Latitude Of Origin: 0.0  
Linear Unit: Meter (1.0)

Multi-Client Division Spectrum Geo  
US Atlantic Phase 1 Survey  
Proposed Plot

Author: Spectrum Geo Inc. - Houston	Date: 04/01/2014	Document Name: US Atlantic Phase 1 Plot.pdf
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