

PUBLIC

Attachment 1

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF OCEAN ENERGY MANAGEMENT

Atlantic OCS

(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)

TDI-Brooks International, Inc.

Name of Applicant

14391 South Dowling Road

Number and Street

College Station, Texas 77845

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.

To be completed by BOEM

Permit Number:

E14-010

Date:

17-Oct-2014



A. General Information

1. The activity will be conducted by:

TDI-Brooks International

Service Company Name

14391 South Dowling Rd.

Address

College Station TX 77845

City, State, Zip

979-693-3446 / 979-693-6389

Telephone/FAX Numbers

drjmbrooks@aol.com

E-Mail Address

For

TDI-Brooks International

Purchaser(s) of the Data

14391 South Dowling Rd.

Address

College Station TX 77845

City, State, Zip

979-693-3446 / 979-693-6389

Telephone/FAX Numbers

drjmbrooks@aol.com

E-Mail Address

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):

See attachment 'A.3 proposed activities'

4. The expected commencement date is: December 2014

The expected completion date is: December 2015

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

Dr. James Brooks, Dr. Les Bender, Mr. Michael Kullman

May be contacted at:

TDI-Brooks International, Inc.

Telephone (Local) 979-693-3446 (Marine) VSAT +65 6602 8203

Email Address: drjmbrooks@aol.com Radio call sign H3RN, V4YI

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

Name (s)	Registry Number(s)	Registered owners)
<u>MV Teknik Perdana</u>	<u>735 3999</u>	<u>TL Geohydrographics</u>
<u>R.V. Gyre</u>	<u>73189900</u>	<u>TDI-Brooks International, Inc.</u>

7. The port from which the vessel(s) will operate is: Jacksonville, FL

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

All vessels utilize a mix of high quality marine GPS, gyrocompasses and radars for navigation

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): Hull mounted multibeam and sub-bottom sonar
- b) Type of acquisition: (High Resolution Seismic, 2D Seismic, 3D Seismic, gravity, magnetic, CSEM, etc.)

High resolution multibeam bathymetry and sub-bottom profiler survey

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.).

multibeam sonar, sub-bottom profiler

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 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: Michael Kullman

SIGNED *M Kullman* DATE 10-13-14

TITLE GIS Specialist

COMPANY NAME: TDI-Brooks International, Inc.

TO BE COMPLETED BY BOEM

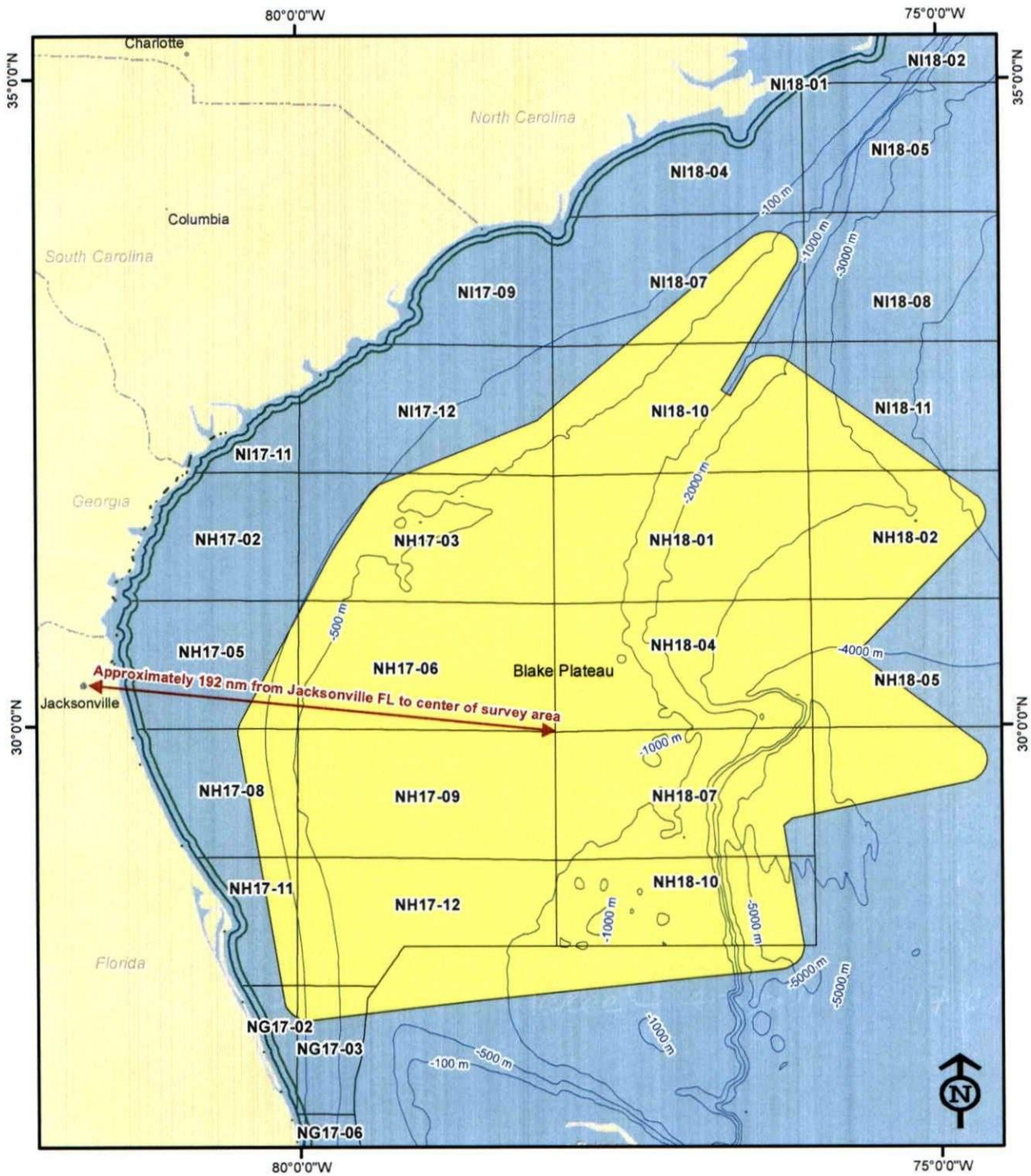
Permit No. E14-010 Assigned by *Tereé C. Campbell* Date 17-Oct-2014
of BOEM

This application is hereby:

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



SIGNED *[Signature]* TITLE Regional Supervisor DATE 10/20/14



TDI-Brooks International, Inc.
 ONE East Coast MBES
 Blake Plateau
 Public Information Copy
 BOEM-0327

GOM OCS REGION
 BOEM
 RELEASABLE
 OCT 20 2014
 200 Nautical Miles
 New Orleans, LA
 OFFSHORE RESOURCE EVALUATION

Attachment A.3 - Proposed Activities – Public Information

Description of Proposed Survey and Equipment

TDI-Brooks / ONE East Coast MBES program will conduct a regional multibeam (bathymetry, backscatter, water column) and sub-bottom profiler acquisition program over an area of approximately 90,434 square miles stretching from the east coast of Florida to North Carolina (see Figure 1). Water depths for the survey area will range from approximately 100m to over 5,000m.

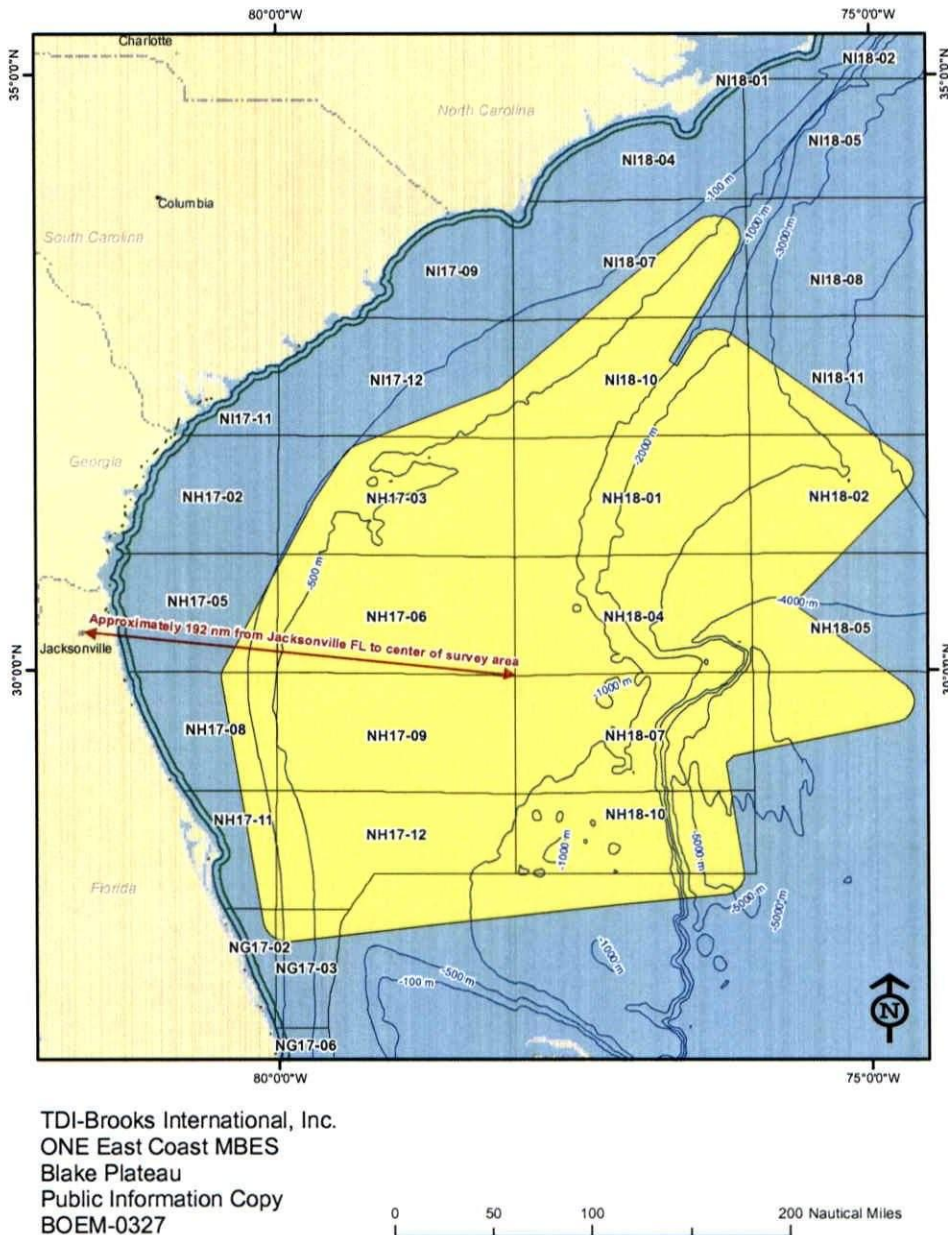


Figure 1. Proposed MBES survey area