

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 551 and 251)

Shell Offshore Inc.

Name of Applicant

701 Poydras Room 2418

Number and Street

New Orleans, LA 70139

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 copy of the original, one digital copy, and one public copy (all with original signatures).

To be completed by BOEM

Permit Number: T22-001

Date: 24-February-2022

A. General Information

1. The activity will be conducted by:

Magseis Fairfield

Service Company Name

9811 Katy Fwy Suite 1100

Address

Houston, Texas 77024

City, State, Zip

+1-281-275-7613

Telephone/FAX Numbers

steve.mcintosh@magseisfairfield.com

E-Mail Address

For Shell E&P Company

Purchaser(s) of the Data

701 Poydras Street, Room 2418

Address

New Orleans, LA 70139

City, State, Zip

+1- 832-638-2682

Telephone/FAX Numbers

dalila.cherief@shell.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, Protected Species Observers (PSO's), 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. Label as **BOEM-0327 Section A General Information**):

There will be no adverse effects on marine life. The use of airgun sources will follow NTL 2016-G02.

Additionally, the use of a Passive Acoustic Monitoring (PAM) should be implemented following NTL 2016-G02.

4. The expected commencement date is: September 1, 2022

The expected completion date is: March 1, 2023

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

May be contacted at:

150 North Dairy Ashford Road, Houston Tx, 77079

Telephone (Local) +1 832 638 2682 (Marine) see below

Email Address: dalila.cherief@shell.com

Olympus Artemis Bridge: +47 70 08 16 66

Swanco Sword Bridge: +47 23 67 30 65

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

Vessel Name (s)	Vessel Model	Registry Number(s)	Radio Call Sign(s)	Registered Owner(s)
MV Olympic Artemis	ROV Node Vessel	9726217	LAFV8	Reach Subsea AS
MV Sanco Sword	Source Vessel	9662100	ZDNE7	Sanco Holdings AS

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

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

DGPS

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, OCS boundary/3-mile limit; 3) Distance and direction from a point of reference to area of Activity; and 4) Label as "**Public Information**".

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

1. The proposed operation: Seismic Acquisition

a. Acquisition method (OBN, OBC, Streamer): OBN

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

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, OCS boundary/3-mile limit;

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

d. Label as "**Public Information**"; and

e. Submit relevant shape files needed to recreate the map as part of the required digital copy.

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.).

Airgun Source Arrays

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: Tracy W. Albert

SIGNED Tracy W. Albert DATE 02/24/2022

TITLE Sr. Regulatory Specialist

COMPANY NAME: Shell Offshore Inc.

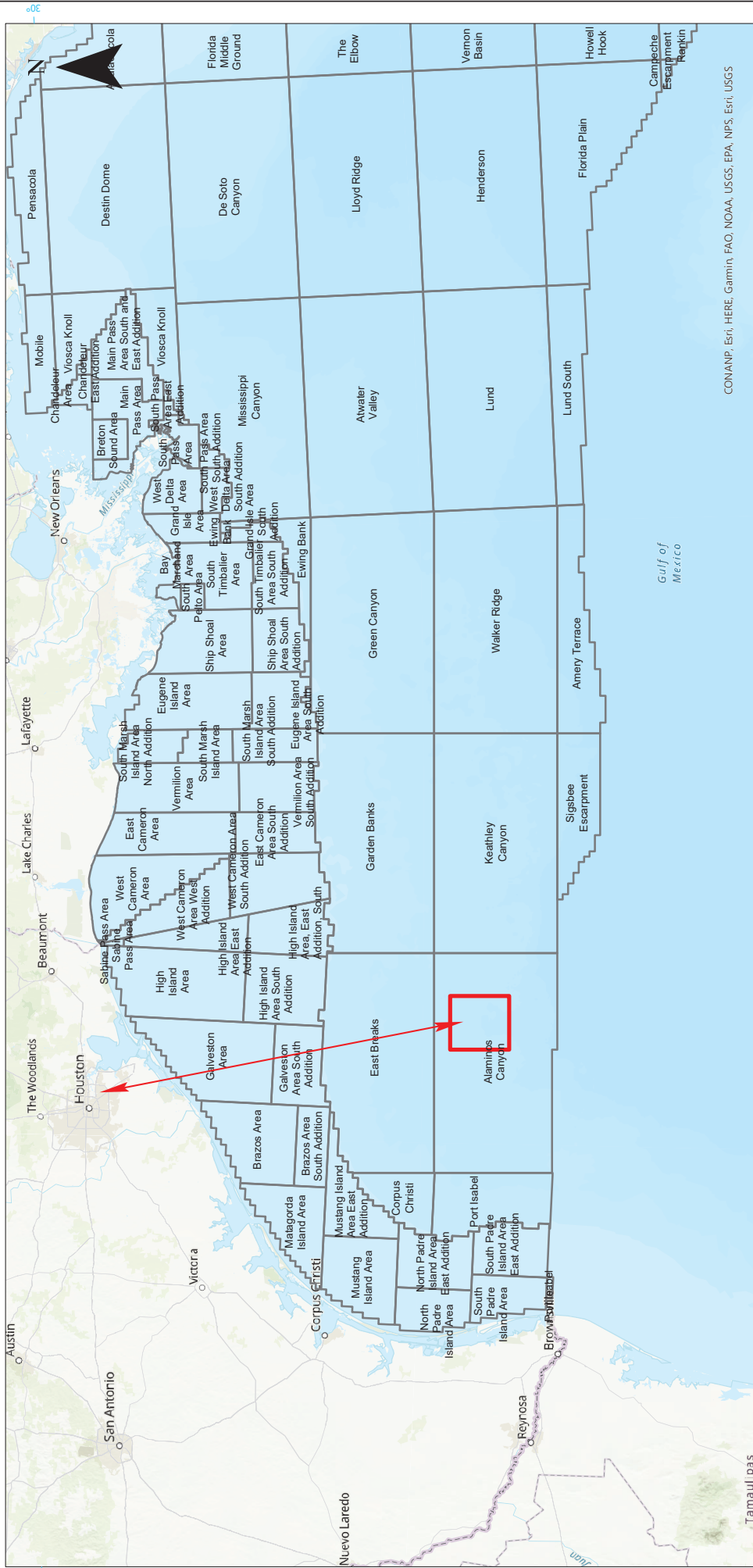
TO BE COMPLETED BY BOEM

Permit No. T22-001 Assigned by Tanaporn Sakulpitakphon Date 24-February-2022
of BOEM

This application is hereby:

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

SIGNED CARLOS ALONSO Digitally signed by CARLOS ALONSO Date: 2022.02.28 13:05:59 -06'00' TITLE For Regional Supervisor DATE 2/28/22



CONANIP, Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS, Esri, USGS

SHELL EXPLORATION & PRODUCTION COMPANY		MAP SCALE Scale: 1:3,441,986 Print Size: 11"x17"	
		MAP INFORMATION Blacktip_Permit Protraction Areas	
GEOLOGIC PARAMETERS Horizontal Coordinate Reference System CRS Name: EPSG: NAD 1927 UTM Zone 15N CRS Code: EPSG: 32066 Projection: Transverse Mercator Coordinate System: North American 1927 Horizontal Units: Meter Vertical Coordinate Reference System Vertical Datum: Mean Sea Level Vertical Units: Feet Elevation/Depth: Elevation		NOTES This map has been prepared by Shell from a variety of sources both within Shell and third party information. Shell does not warrant the accuracy of the information shown on this map. The copyright in this document is vested in Shell 24 Jan 2022. All rights reserved.	
INDEX MAP 		210 Miles South Of Houston TX Date: 24 Jan 2022 Author: Dalia, Client	