

PUBLIC

Attachment 1

**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)

Anadarko Petroleum Corporation

Name of Applicant

1201 Lake Robbins Drive

Number and Street

The Woodlands, TX 77380

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).

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To be completed by BOEM

Permit Number: L22-013

Date: 19-May-2022

A. General Information

1. The activity will be conducted by:

MagseisFairfield

Service Company Name

9811 Katy Fwy, Suite 1100

Address

Houston, Texas 77024

City, State, Zip

281-275-7821

Telephone/FAX Numbers

laurie.stewart@magseisfairfield.com

E-Mail Address

For **Anadarko Petroleum Corporation**

Purchaser(s) of the Data

1201 Lake Robbins Dr

Address

The Woodlands, TX 77380

City, State, Zip

832-636-2321

Telephone/FAX Numbers

debbie_malbrough@oxy.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**
- .):
-
- Geophysical survey using Ocean Bottom Nodes (OBN) deployed by ROV and two source vessels equipped with a dual airgun seismic source. See attachment A3 for additional informations.

4. The expected commencement date is:
- May 1, 2023**

The expected completion date is: **June 10, 2023**

5. The name of the individual(s) in charge of the field operation is:
-
- Fabricio Mora, Senior Project Manager**

May be contacted at:

9811 Katy Fwy, Suite 1100, Houston, Texas 77024Telephone (Local) **281-275-7902** (Marine) **281-433-5616**Email Address: **fabricio.mora@magseisfairfield.com**

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)
REM Saltire	Skips Teknisk ST-327L	9377016	5BYV4	E Forland AS
Sanco Spirit	DNV-GL	9429936	ZDJN3	Sanco Holding AS
Artemis Arctic	DNV 1A1 HELDK TMO	9207510	LJZK3	Artemis Shipping AS

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

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

DGPS on all vessels; dynamic positioning using Geosynchronous satellites and on-board receivers operating in conjunction with the global positioning system.

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 3D 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 survey; seafloor autonomous nodes; surface seismic source and water velocity measurements using PIFS units (see attachment C - 1b)
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 array

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: Deborah R. Malbrough

SIGNED *Deborah R. Malbrough* DATE 5/18/2022
F4013CDF08CA45C...

TITLE Consultant Regulatory

COMPANY NAME: Anadarko Petroleum Corporation

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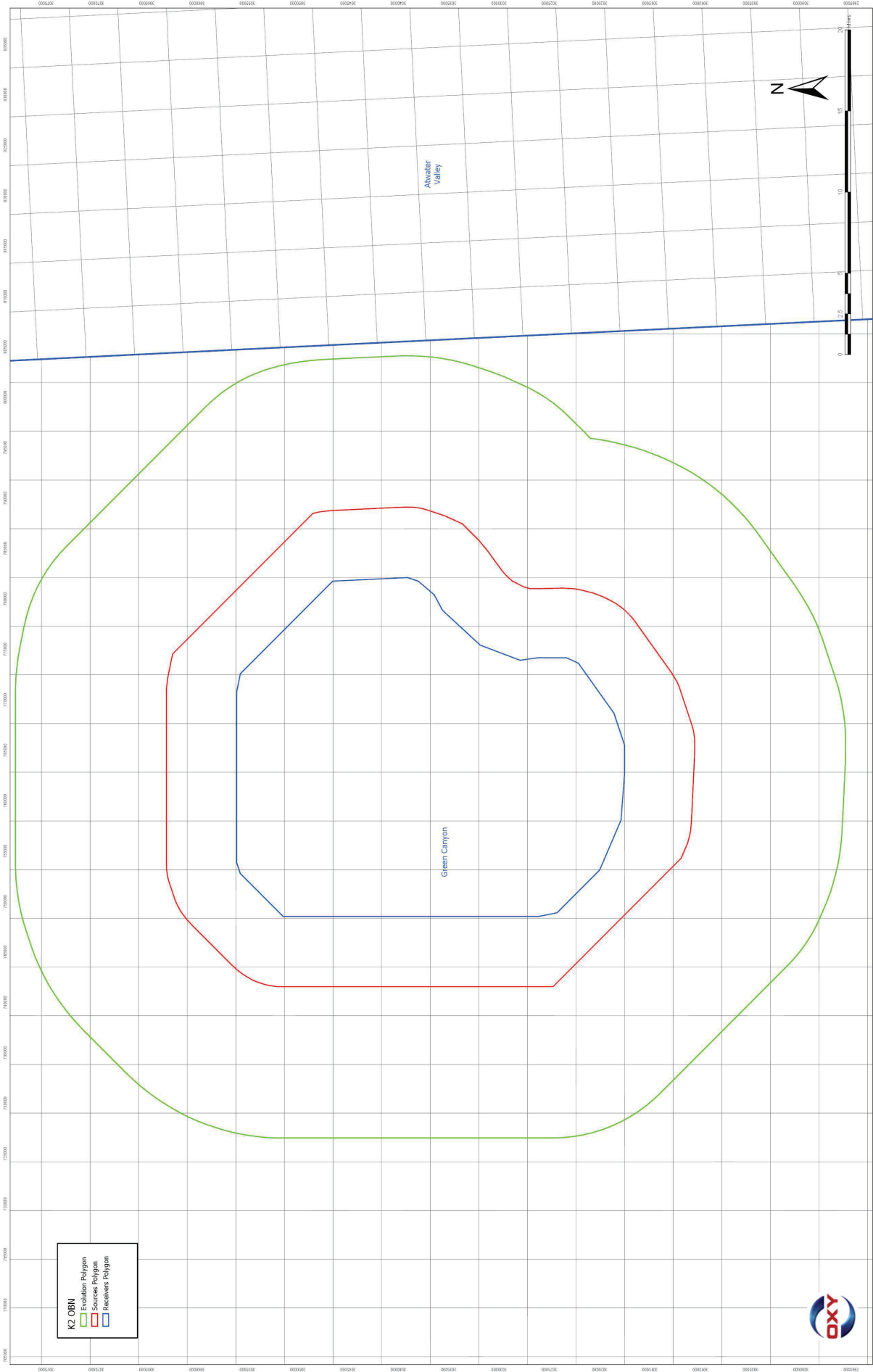
TO BE COMPLETED BY BOEM

Permit No. L22-013 Assigned by Tanaporn Sakulpitakphon Date 19-May-2022
of BOEM

This application is hereby:

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

SIGNED MATTHEW WILSON Digitally signed by MATTHEW WILSON Date: 2022.06.01 11:53:15 -05'00' TITLE For Regional Supervisor DATE 6/1/22



- K2 OBN
- Evulsion Polygon
- Sources Polygon
- Receivers Polygon

