



BP Exploration (Alaska) Inc.
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June 6, 2013

Dr. Bill Ingersoll
Chief, Plans Section
Bureau of Ocean Energy Management
Alaska OCS Region
3801 Centerpoint Drive , Suite #500
Anchorage, Alaska 99503-5823

Notification of Ancillary Activities
2013 Geophysical Investigation
Liberty Development
Beaufort Sea, Alaska

Dear Dr. Ingersoll:

BP Exploration (Alaska) Inc. (BPXA) hereby submits a notification to conduct ancillary activities in support of the Liberty Development as required by 30 CFR 550. The activities include a 2013 Geophysical Investigation to obtain information to support identification of possible future pad island locations and for evaluating proposed pipeline routing.

In support of this notification, attached is the Project Description/Plan of Operations and Figure 1. BPXA is also planning additional ancillary activities in support of the Liberty development. As the details for these activities are progressed they will be provided to your office.

If you have any questions or need additional information regarding this project, please contact me at (907) 564-4941 or via email at mike.brock@uk.bp.com or Erika Denman at (907) 564-4646 or via email at erika.denman@bp.com.

Sincerely,

Mike Brock, Environmental Team Lead
HSE-Alaska

Attachments

2013 Geophysical Investigation
Project Description

1. INTRODUCTION

BP Exploration (Alaska), Inc. (BPXA) plans to conduct a geophysical survey in federal and state waters of the Beaufort Sea during the open water seasons of 2013. The area lies mainly within the Duck Island and Liberty Units as well as portions that are non-Unit area. The survey area is shown in Figure 1.

2. PURPOSE

The purpose of the proposed survey is to better characterize the seafloor and shallow sub-seafloor sediments to supplement existing data in support of the proposed Liberty island location and associated buried pipeline corridor. The work will encompass precise bathymetry at potential island sites and along candidate pipeline routes. The existing bathymetry in this area is dated, much of it dating back to the early government surveys of the U.S. Coast and Geodetic Survey conducted in 1949-1950. The characteristics of seabed features such as ice gouges and strudel scours will also be determined to support the design of subsea pipelines.

3. LOCATION

The project area shown in **Figure 1** covers activity for one summer season and encompasses approximately 20 mi² (10% of the survey area (2 mi²) is in Federal waters and 90% of the survey area (18 mi²) is in state waters in the Beaufort Sea. The approximate boundaries of the total surface area are between 70°14'N and 70°21'N and between 147°31'W and 147°53'W. .

4. SCHEDULE

Activity associated with the survey is anticipated to commence with mobilization of equipment to Deadhorse about July 20th . Demobilization of equipment is planned for completion by mid-August. The survey will take approximately 14 days to complete within this time period.

5. DESCRIPTION OF ACTIVITY

The activities associated with this project include mobilization of equipment and personnel, equipment staging, utilizing boat docks at West Dock or Endicott, data collection, and project demobilization. No survey activities will occur onshore.

The survey area identified in **Figure 1** shows the area within which data may be collected. The survey vessels will travel to and from the survey area to a dock for resupply and refueling activities.

5.1 Mobilization and Access

Support activities, such as vessel mobilization/demobilization, and vessel re-supply, are primarily planned to occur at West Dock and may also occur at Endicott (SDI and MPI). Other existing pads within the PBU area may be utilized for equipment staging or support if necessary.

5.2 Housing and Logistics

Approximately 10 workers will be involved in the survey operation. Most of the crew will be accommodated at existing camps at PBOC or Deadhorse. The skippers of the survey vessels will remain onboard at anchor during evening hours. The survey work will be conducted on day shift only (6 am to 6 pm).

6. GEOPHYSICAL SURVEY DETAILS

Survey operations will be undertaken by two independent crews on two survey vessels. Survey support equipment will include multibeam bathymetry and side-scan sonar deployed on the *R/V Annika Marie* while the *R/V Ukpik* will undertake sub-bottom profiling, side scan sonar and single beam bathymetry. In areas where water depths are less than four feet, a 15-ft inflatable survey vessel manned by a two-person crew will conduct single beam bathymetry.

Table 1 identifies the equipment for the survey.

Equipment type	Sound Freq	Main activity
Dual Frequency Side Scan Sonar	100/900 kHz	Seabed characteristics and obstructions, wrecks, pipelines, cables, hard bottom habitat
Single Beam Bathymetry Sonar	200 kHz	Bathymetry
Multi Beam Bathymetry Sonar	200 kHz (200-500 kHz)	Refined Swath Bathymetry
Shallow subbottom profiler	0.5-12 kHz	Determine sub-bottom characteristics, permafrost, buried channels
Navigation Instrumentation	n/a	Precise vessel positioning using DGPS

6.1 Navigation and Data Management

Navigation will be accomplished with the use of a Differential Global Positioning System (DGPS) for all survey vessels. The bathymetric data will be reduced to the project vertical datum using water level measurements conducted by the U.S. Ocean Service at the Seawater Treatment Plant, West Dock, Prudhoe Bay.

7. ENVIRONMENTAL PLANS

The proposed geophysical survey will be conducted in compliance with all permits and federal, state, and local regulations. All Field personnel will be trained at a minimum to the applicable standards set forth by the North Slope Training Cooperative. Additionally, personnel will participate in specific project related training programs, which may include vessel and overall operational safety, marine mammals, and other wildlife interaction.

7.1 Waste Management

A waste management plan will be developed and implemented for project activities. Vessels will have approved marine sanitation devices for handling sewage. Vessel fluids will be managed in accordance with applicable governmental regulations. Solid wastes and recyclables from vessels will be transferred to shore for handling at existing facilities.

7.2 Fuel Storage and Fuel Transfer Operations

Vessel(s) will be fueled at West Dock. Fuel transfers will be conducted in accordance with applicable regulatory requirements.

7.3 Wildlife Interaction Plan and Marine Mammal Monitoring Program

During the time frame proposed for this project, mid July to early August, no bowhead whales are expected to be present in or close to the survey area. However as a precaution, and in agreement with the CAA, marine mammal observer will monitor for marine mammals.

A BPXA Polar Bear and Walrus Interaction plan will also be followed to avoid potential impacts from our activities.

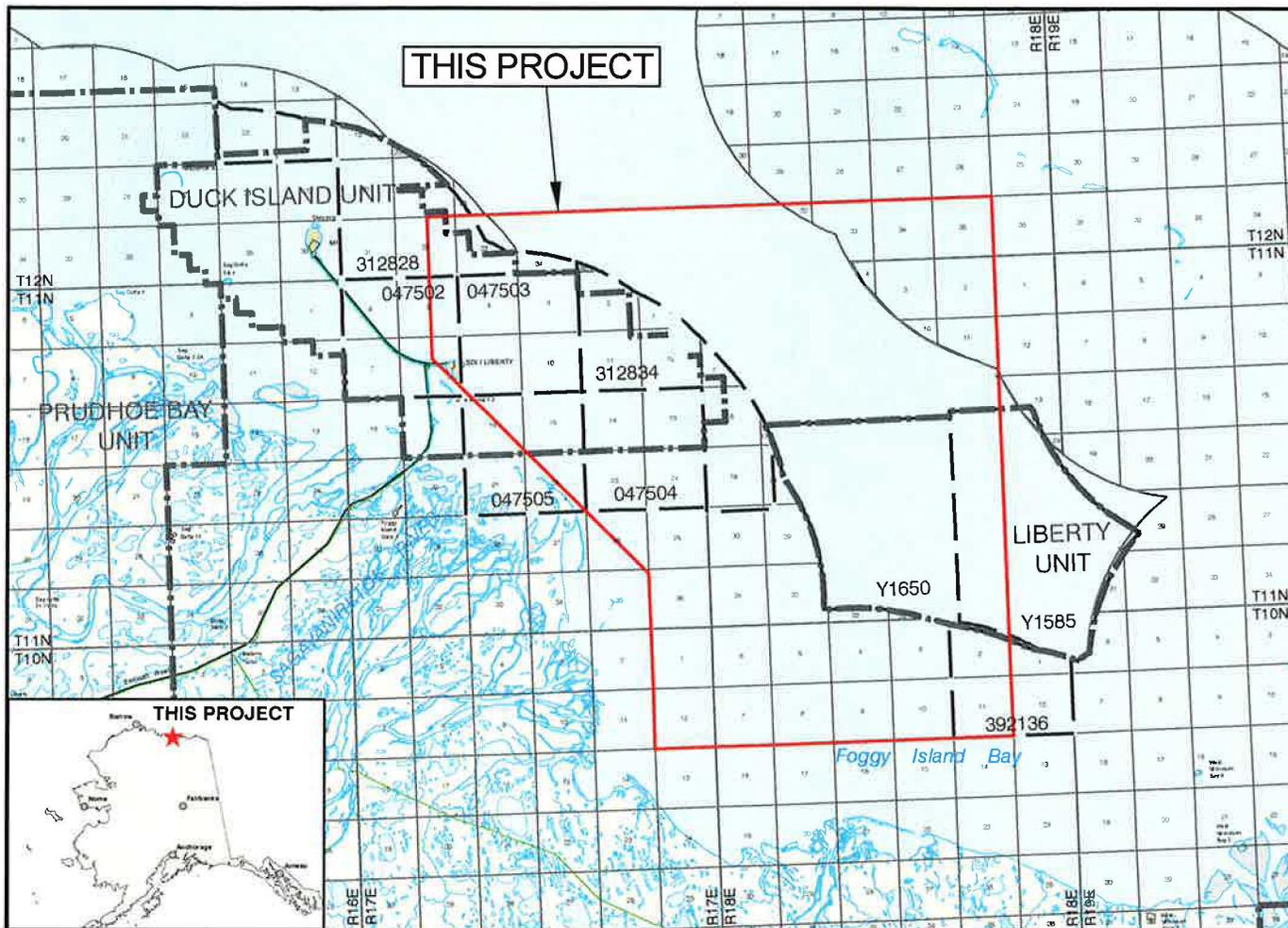
8. COMMUNITY RELATIONS AND LOCAL HIRE

8.1 Subsistence Mitigation

The project area is located approximately 52 miles east from Nuiqsut, 10 miles south from Cross Island, 100 miles west from Kaktovik and 190 miles east from Barrow. Due to the timing of the project and the distance from the surrounding communities, it is anticipated there will be no effects on subsistence hunting activity.

8.2 Archaeological and Cultural Sites

A field archeological and cultural resource reconnaissance was conducted within the project area in 2008. There are no known cultural resources within the Geophysical Survey project area.



This map is based on U.S.G.S quad Beechey Point (A-1, A-2, B-1, B-2) and on the Unit Operator's Facility Maps.



PROJECT LOCATION:

DUCK ISLAND UNIT - SATELLITE DRILLING ISLAND
NAD83

LAT. = 70° 19' 18.786" / DD 70.321885
LONG. = -147° 51' 56.266" / DD -147.865629

ALASKA STATE PLANE ZONE 4, NAD83
X = 1,903,616.63 FEET
Y = 5,971,775.36 FEET

SEC. 1, 2, 11-14 T10N, R17E UMIAT M.
SEC. 1-18 T10N, R18E UMIAT M.
SEC. 1-5, 8-16, 22-26, 35, 36 T11N, R17E UMIAT M.
SEC. 1-4, 7, 10-12, 14, 17-20, 29-24 T11N, R18E UMIAT M.
SEC. 28, 29, 32-35 T12N, R17E UMIAT M.
SEC. 25-29, 32-36 T12N, R18E UMIAT M.

ADL # 047502, 047503, 047504, 047505, 312828,
312834, 392136
OCS # Y1585, Y1650

DATUM: MEAN SEA LEVEL

PURPOSE: GEOPHYSICAL SURVEY

ADJACENT PROPERTY OWNER:
STATE OF ALASKA

BP EXPLORATION (ALASKA) INC.

**LIBERTY DEVELOPMENT PROJECT
2013 GEOPHYSICAL SURVEY
VICINITY MAP**

DATE:
June 2013

SCALE:
1" = 3 Miles

FIGURE:
1