### BOEM Information Need(s):
Collating and synthesizing information on historical Alaska OCS activities and associated parameters will support the validation of BOEM’s E&D scenarios for future NEPA analyses, quantify levels of historical impact producing factors, and contribute to a better understanding of the spatial and temporal scope of past, present, and reasonably foreseeable activities for evaluating impacts.

### Background:
BOEM uses information regarding historical Alaska OCS activities and their associated impact producing factors to evaluate potential impacts that may be associated with Alaska OCS oil and gas exploration, development, and production activities. In BOEM’s NEPA assessments, impact producing factors are correlated with a range of parameters, such as the number, timing, location, water
depth, well cellar depth, and results of wells drilled; discharges; facility types; and aircraft/vessels/vehicles utilized, including transportation routes used and the number and frequency of trips. Much of the historical information is contained within Environmental Studies Program monitoring reports (e.g., Burden et al. 1985, Kevin Waring and Associates 1985; Northern Resource Management 1980) and operator reports submitted to BOEM or its predecessors. BOEM’s Alaska Resource Evaluation section has collated information on the 107 Alaska OCS wells drilled. However, it is difficult to find and synthesize activity information in a timely manner to answer questions related to historical Alaska OCS activities.

**Objectives:** This study will examine and compile information about historical Alaska OCS activities and associated parameters between 1979 and 2021. Specific objectives include:

- Quantify historical Alaska OCS activity information and relevant parameters for verification or validation of E&D scenarios.
- Establish a dataset of temporal and spatial information from historical Alaska OCS activities in the marine environment to inform identification of relevant impact producing factors for NEPA assessments.
- Develop a detailed written synthesis of Alaska historical oil and gas activity to inform SMEs and capture and curate institutional knowledge for NEPA assessment.

**Methods:** Researchers will conduct a detailed review, compile, and collate available information about historical Alaska OCS activities and associated parameters to establish a framework of consistent data elements for synthesis and analysis. Information that addresses the aforementioned objectives gathered from peer-reviewed literature, reports, and summary documents will be synthesized into a geodatabase as well as a report. Researchers will craft concise statements that can be easily and readily used in future environmental analyses to describe the levels of oil and gas exploration, infrastructure, and activities in context with proposed activities to support future planning and decision-making.

**Specific Research Question(s):**

1. What are the levels of historical Federal OCS oil and gas activities and can they be used as input to or validation of E&D Scenarios used in NEPA assessments?
2. What are the levels and spatial and temporal distribution of historical Alaska OCS activities and related parameters compared to activities on existing leases?

**Current Status:** N/A

**Publications Completed:** N/A

**Affiliated WWW Sites:** N/A

**References:**
