



THE STATE
of **ALASKA**
GOVERNOR MICHAEL J. DUNLEAVY

Department of Natural Resources

DIVISION OF OIL AND GAS

550 West 7th Avenue, Suite 1100
Anchorage, AK 99501-3560
Main: 907.269-8800
Fax: 907-269-8939

March 15, 2019

Ms. Sue Simonds
Permit Manager
SAExploration, Inc.
8240 Sandlewood Place, Suite 102
Anchorage, AK 99507

RE: MLUPNS 19-002, SAExploration, Inc., Kuukpik 3D Geophysical Exploration Permit Approval

Dear Ms. Simonds:

The Department of Natural Resources (DNR), Division of Oil and Gas (Division) approves the SAExploration, Inc. (SAE) Kuukpik 3D Miscellaneous Land Use Permit (MLUP) application, dated February 18, 2019, to conduct geophysical exploration on State of Alaska lands in the North Slope region of Alaska. The enclosed permit, MLUPNS 19-002, authorizes SAE to conduct a land and marine seismic survey on State of Alaska land and waters within Colville River Unit subject to the conditions of the permit. This project includes approximately 490 square miles of 3D acquisition.

This permit is effective March 15, 2019 to tundra closure 2020.

Issuance of a permit under 11 AAC 96 is not a disposal of an interest in land and does not grant a preference right to a lease or other disposal. The permit is revocable for cause for violation of a permit stipulation of this chapter, and is revocable at will if the DNR determines that the revocation is in the state's interest. The proposed activities are for a discrete and limited duration with limited, temporary impact to the land, and are not part of a larger project or investment by the permittee that might weigh against revoking the permit. Therefore, the permit is both legally and functionally revocable. Each permit issued is subject to any stipulations the DNR determines necessary to assure compliance with this chapter, to minimize conflicts with other uses, to minimize environmental impacts, or otherwise to be in the interests of the state. Public notice of any miscellaneous land use application is discretionary under 11 AAC 96.030(c). The Director of the Division of Oil and Gas (Director) has the right at any time to amend or modify any provisions of this permit, or revoke this permit.

Project Description: Proposed Activity, Associated Structures, Type of Equipment:

SAE proposes to conduct activity within this permit boundary during the winter seasons of 2019 and 2020. The project will be a two-year program, divided into two phases. Phase one will begin at permit issuance until the close of tundra travel season for the first phase of the project,

then continue in the winter season of 2020 to acquire the remaining portion of data not captured in 2019.

SAE will travel with camp and equipment either from an existing program or from Deadhorse, Alaska. The crews will use an existing ice pad within the vicinity of Drillsite 2P (DS-2P) as a mobilization point and staging area for the resupply route. Camp and equipment will travel on tundra west of DS-2P pad toward the east bank of the Colville River. Surveyors will establish survey controls by setting up a base station; controls will be set with a satellite navigation system transported by tracked vehicles. During the survey, floating ice may be encountered which may not safely support the weight of some seismic equipment. In these cases, SAE will consult with Alaska Department of Fish and Game (ADF&G) regarding this activity to apply water to increase the thickness of the ice to establish temporary river crossings. There also may be areas on rivers, streams and lakes that need to be protected with snow for traversing from tundra to ice for crossing. If it is determined that willows are in the area, SAE has adopted a willow protocol that ensures willow areas are mapped and defined by size.

Minimal equipment traffic will be allowed in willow areas and extreme care will be used in or near these areas. Willow areas will first be identified via aerial photos and possibly snow machines. The areas will then be placed on maps. It is the responsibility of the survey manager to ensure that willow areas are recorded on the hazard maps and appropriate markings are in place. Heavy willow areas will be avoided. Seismic operations will be conducted utilizing approximately 12 rubber-tracked vibrators per crew that operate in groups and/or independently. Wireless nodal technology will be used to conduct this program. Generally, receiver (nodes) lines run perpendicular to source lines and will be typically spaced a minimum of 550 to 660 feet apart. Nodes are typically located every 110 to 160 feet along this line, but the design pattern may change with client objectives. This project may use source driven shooting (SDS). Wireless nodes will be laid out by crews on foot and by use of rubber-tracked vehicles and snow machines. The energy source is Vibroseis with a frequency of approximately 4 to 100 Hz; the anticipated duration is 4-12 seconds for each sweep. The duration and decibel level of the source varies depending on such factors as terrain and weather conditions. However, the levels are so low that hearing protection is not required for seismic crew members.

Communication with the crews, while out in the field will be via radio systems. The camp operates with a conventional phone system and will have internet access.

Project Area Legal Description:

Meridian: Umiat

Township: 009N	Range: 006E	Sections: 19-23, 26-35
	Range: 005E	Sections: 19-36
	Range: 004E	Sections: 22-24, 25-28, 33-36
Township: 008N	Range: 003E	Sections: 24-25, 36
	Range: 004E	Sections: 1-2, 7-36

	Range: 005E	Sections: All
	Range: 006E	Sections: All
Township: 007N	Range: 003E	Sections: 1-3, 10-12, 13-15, 22-24, 25-27, 34-36
	Range: 004E	Sections: All
	Range: 005E	Sections: All
	Range: 006E	Sections: All
Township: 006N	Range: 003E	Sections: 1-3
	Range: 004E	Sections: 1-6, 8-17, 20-29, 32-36
	Range: 005E	Sections: All
	Range: 006E	Sections: 1-12, 18-19, 30-31
Township: 005N	Range: 004E	Sections: 1-5, 8-17, 20-29, 32-36
	Range: 005E	Sections: All
	Range: 006E	Sections: 6-7, 19-20, 29-32
Township: 004N	Range: 004E	Sections: 1-5, 8-17, 20-29
	Range: 005E	Sections: 1-24, 29-30
	Range: 006E	Sections: 4-9, 16-21

Scope of Decision:

This decision is reviewing the following activities for Division approval:

Activities supporting seismic data acquisition on State of Alaska land and waters have been reviewed under the authority of this approval.

Land Status:

The proposed Kuukpik 3D program is located on state land and waters within the North Slope region. The project area covers approximately 490 square miles (Appendix C).

Other third-party interests within or adjacent to the project area were identified:

LAS 23603 – United States Department of the Interior Bureau of Indian Affairs

LAS 31702 – University of Alaska Fairbanks Land Management

TWUA A2017-106 – ConocoPhillips Alaska, Inc.

TWUA A2014-133, TWUA A2014-134 and TWUA A2014-135 – Oil Search (Alaska), LLC

TWUA A2018-110 – Great Bear Petroleum Operating LLC

This permit does not grant access to any non-state lands.

Agency Review:

The Division provided an agency review and comment opportunity for the activities considered for authorization under this decision. The following government entities were notified on February 25, 2019: North Slope Borough (Borough), ADF&G, Alaska Department of Environmental Conservation (ADEC), and DNR: Division of Mining Land and Water (DMLW)

March 15, 2019

and Division of Parks & Outdoor Recreation (DPOR). The comment deadline was 4:30 pm Alaska time on March 5, 2019. Comments were received from DPOR and resulted in Project Specific Stipulation #1 found in Appendix A.

Public Review:

The public notice process is discretionary and was not initiated for this application.

Performance Guarantee:

The permittee has provided the Division with a performance guarantee under 11 AAC 96.060 in the amount of \$100,000.

Insurance:

The certificate of insurance has been furnished to the department and lists the State of Alaska, Department of Natural Resources as an additional named insured on the policy. The policy is issued by an insurer licensed to transact the business of insurance under AS 21.

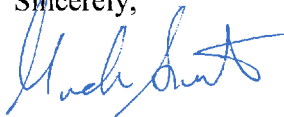
Application Approved:

Should any unforeseen issues arise, the Division has the authority to amend or revoke this permit. As detailed in this permit, the Division shall be notified if, during the conduct of activities, a surface use conflict occurs. All activities conducted under this permit are subject to inspection by the Division, and if damage occurs, appropriate interest holders will be engaged and corrective action will be prescribed. The Division will impose additional provisions as necessary under 11 AAC 96.040 at any time during the activity approved under this permit to minimize impacts and conflicts.

The Division considered all facts material to this application including the permit provisions contained in this authorization per 11 AAC 96.040(b). The Division has determined that this permit as conditioned by the attached provisions for this non-permanent activity is in the state's interest. Stipulations in this permit authorization are necessary to protect the state's interest and the public interest.

An eligible person affected by this decision may appeal it, in accordance with 11 AAC 02. Any appeal must be received within 20 calendar days after the date of issuance of this decision, as defined in 11 AAC 02.040 (c) and (d), and may be mailed or delivered to the Commissioner, Department of Natural Resources, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska 99501; faxed to 1-907-269-8918; or sent by electronic mail to dnr.appeals@alaska.gov. This decision takes effect immediately. An eligible person must first appeal this decision in accordance with 11 AAC 02 before appealing this decision to Superior Court. A copy of 11 AAC 02 may be obtained from any regional information office of the Department of Natural Resources.

Sincerely,



Graham Smith

Permitting Manager
Division of Oil and Gas

Appendices:

- A: Stipulations
- B: Comments
- C: Map(s)

ecc: Division: Graham Smith, Nathaniel Emery, Mark Henspeter, James Hyun, Spco Records,
Jodi Delgado-Plikat
DMLW: Becky Baird, Henry Brooks, Melissa Head, Kimberley Maher, Jeanne Proulx
ADF&G: Jack Winters
ADEC: Laurie Silfven and dec.water.oilandgas@alaska.gov
Borough: Jason Bergenson, Josie Kaleak, and Mabel Kaleak

APPENDIX A: STIPULATIONS
MISCELLANEOUS LAND USE PERMIT FOR GEOPHYSICAL EXPLORATION

Geophysical and Seismic activities are subject to the following permit stipulations:

Standard Stipulations:

1. The permittee shall defend, indemnify and hold the State of Alaska harmless from and against any and all claims, damages, suits, losses, liabilities and expenses for injury to or death of persons and damage to or loss of property arising out of or in connection with the entry on and use of State lands authorized under this permit by the permittee, its contractors, subcontractors and their employees.
2. A copy of the permit and stipulations must be posted in a prominent location where other permits and safety information are displayed for crew members. The permittee shall make available a copy of the application, all subsequent modifications, and a copy of this permit and all its attachments to any interested party upon request in a reasonable time.
3. The permittee shall notify and obtain a modification from the Division in advance of any activities which deviate from the approved permit. Any action taken by the permittee or his agent which increases the overall scope of the project or which negates, alters, or minimizes the implied intent of any stipulation contained in this permit will be considered a deviation from the approved permit.
4. The issuance of this permit does not alleviate the necessity of the permittee to obtain authorization required by other agencies for this activity.
5. The permittee shall inform and ensure compliance with all conditions of this permit by its employees, agents and contractors, including subcontractors at any level.
6. Reservation of Rights: The Division reserves the right to grant additional authorizations to third parties for compatible uses on or adjacent to the land under this permit. Authorized concurrent users of state land, their agents, employees, contractors, subcontractors, and licensees, shall not interfere with the operation or maintenance activities of each user.
7. Valid Existing Rights: This permit is subject to all valid existing rights and to the land. The State of Alaska makes no representations or warranties whatsoever, either expressed or implied, as to the existence, number, or nature of such valid existing rights.
8. The Commissioner of the DNR may require that an authorized state representative be present during any oil and gas activities described in or conducted under this permit.
9. The permittee shall consult the Alaska Heritage Resources Survey (907-269-8721) so that known historic, archeological and paleontological sites may be avoided. Should any sites be discovered during the course of field operations, activities that may damage the site will cease and the

Office of History and Archaeology in the Division of Parks and Outdoor Recreation
(907-269-8721) shall be notified immediately.

10. The permittee shall make available, to the Division, all records relating to the permit activities and landowner approvals upon request.
11. The permittee shall observe and apply applicable setbacks as defined by 18 AAC 80.020, 18 AAC 72 and/or the International Association of Geophysical Contractors Setback Guidelines to activities approved under this authorization. Alternative setback distances may be employed to protect coastal uses and resources, water wells, structures, private property including livestock, and other resources if it is determined that a particular guideline is insufficient.
12. Trails, campsites and work areas must be kept clean. Trash, survey lath, markers, and other debris that accumulates in camps, along seismic lines, and travel routes that are not recovered during the initial cleanup, shall be picked up and properly disposed of within one calendar year.
13. The Director has the right at any time to modify or revoke this permit.
14. All wastewater must be disposed of in a manner acceptable to ADEC and must meet Alaska Water Quality Standards found at: <http://dec.alaska.gov/water/wqsar/wqs/>.
15. ADEC Drinking Water regulations 18 AAC 80 apply to public water systems.
16. Performance Guaranty. To ensure performance with all of the terms of the permit and to cover the potential cost of restoring the site, the permittee will maintain security acceptable to the state.
17. Insurance. The permittee shall maintain insurance to protect the State from risks associated with the planned activities during the term of the permit. The Permittee shall maintain a comprehensive general liability insurance policy with the state named as an additional insured party. The insurance requirement must be for no less than \$1,000,000.00 per occurrence and \$2,000,000.00 per annual aggregate. The insurance requirement may be adjusted periodically by the Division.

Land and Access Stipulations:

1. The permit authorizes the Permittee to conduct geophysical/seismic exploration activity upon lands owned by the State of Alaska. No person may engage in mineral exploratory activity on land, the surface of which has been granted or leased by the State of Alaska, or on land for which the state has received the reserved interest of the United States.
2. This permit does not authorize activity on Mental Health Trust Lands, School Trust Lands, Park Lands, or Lands of the University of Alaska.
3. Approval of this permit does not constitute the approval required for surface entry on non-state land without an agreement with the surface owner. This permit does not approve entry on private land.

4. The seismic exploration activities granted under this permit must not diminish the use and enjoyment of lands encompassed within a Native Allotment. Before entering a pending or approved Native Allotment, the permittee shall contact the Bureau of Indian Affairs and Bureau of Land Management and comply with applicable federal law.

Public Safety and Program Outreach Stipulations:

1. Public safety: Appropriate signage will be deployed on all access routes and roadways in the project area. The Department of Transportation or Right of Way Lessee may advise permittee on appropriate measures to maintain safe conditions where appropriate. The permittee must watch for, provide verbal warning to and document people or vehicles entering potentially dangerous areas of the project. Lighting and marking with lath or fluorescent tape of some project work areas is advised for activities that occur during periods of sustained darkness or where conditions are unsafe for humans or animals.
2. Notices: To avoid unintended conflicts with other users, the permittee shall post a Notice of this project at conspicuous locations including key travel intersection crossings, areas of public use and in a prominent location in any operators or contractors staging area or camp. The Notice shall include the Division's contact number (907-269-8800), project title and permit number, names and contact telephone numbers of the permittee and all operators. The permittee shall provide notices on behalf of the Division to all upland owners involving shoreland, tideland, or submerged land adjacent to the upland owner's property if no notice or agreement is made with the owner by the permittee as required under 11 AAC 96.030(c). All forms of public outreach must be documented and reported to the Division as they occur.
3. In areas of subsistence and personal use harvesting, the permittee will coordinate survey activity with local users to prevent unnecessary conflicts. The permittee shall make a good faith attempt to coordinate survey activities with the owners of trap lines if known. Existing snowmachine, dogsled, or other trails, should be marked with survey lath where they intersect receiver and source lines. The permittee is required to post notice of potentially dangerous or hazardous project activities at these locations.

Fuel and Hazardous Substances Stipulations:

1. Fuel and hazardous substances. Secondary containment shall be provided for fuel or hazardous substances, as defined under AS 46.03.826 (5) or under 42 U.S.C. 9601(14)F.
2. Fuel or hazardous substance transfers. Secondary containment or a surface liner must be placed under all container or vehicle fuel tank inlet and outlet points, hose connections, and hose ends during fuel or hazardous substance transfers. Appropriate spill response equipment to respond to a spill of up to five gallons must be on hand during any transfer or handling of fuel or hazardous substances. Transfer operations shall be attended by trained personnel at all times.
3. Fuel or hazardous substances container(s) with a total combined capacity larger than 55 gallons shall not be stored within 100 feet of a waterbody.

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4. Sorbent material in sufficient quantity to handle operation spills must be on hand at all times for use in the event of an oil or fuel spill.
5. Any use of explosives or blasting materials must comply with ADF&G Habitat Publication No. 13-03, Alaska Blasting Standard for the Proper Protection of Fish. Additionally the permittee must contact the nearest ADF&G Division of Habitat office regarding the need for a Fish Habitat permit.
6. Stationary fuel storage facilities must not be placed within the annual floodplain of a watercourse or closer than 100 feet to a waterbody. There shall be no fueling, servicing or repair of vehicles or equipment, and no vehicles shall be left unattended within the floodplain or below the ordinary high water line of any river, lake or stream or closer than 100 ft. to a waterbody or wetland.

Wildlife Stipulations:

1. All activities shall be conducted in a manner to minimize or avoid disturbance to wildlife and their habitat. Hazing of wildlife is prohibited unless a Health Safety and Environment concern is present.
2. Activities must avoid occupied grizzly bear dens and black bear dens, by one-half mile unless alternative mitigation measures to minimize disturbance are authorized by the Division after consultation with ADF&G. Known den locations shall be obtained from the nearest ADF&G Division of Wildlife Conservation office prior to starting operations. Occupied dens encountered in the field must be reported to the above, and subsequently avoided.
3. The permittee shall abide by the provisions of Alaska's wildlife feeding regulation, 5 AAC 92.230.
4. Activities within State-designated special areas (AS 16.20.010- .162, .500-.690) will be conducted in a manner consistent with the area's statutes regulations and management plan.
5. All marine activities will be conducted in accordance with any voluntary action submitted by the permittee and approved by the National Marine Fisheries Service (NMFS). The Incidental Harassment Authorization (IHA) application describes specific operational procedures, mitigation measures, observer protocols, and other measures designed to protect marine mammals from potential impacts of marine seismic activities. All activities authorized under this permit are required to meet other state and federal requirements, such as the Marine Mammal Protection Act (MMPA), Endangered Species Act (ESA), and other applicable laws protecting marine mammals.
6. Activities must avoid known polar bear dens by one mile. Known den locations shall be obtained from the U.S. Geological Survey (907-786-3800 or 800-362-5148) prior to starting operations. New dens encountered in the field must be reported to the above, and subsequently avoided by one mile.

North Slope Stipulations:

1. Crossing of water bodies and activities near fish-bearing water bodies may require permits from ADF&G, the permittee is required to obtain all permits necessary for this project prior to commencing activities authorized by this permit.
2. All solid wastes, including incinerator residue, shall be backhauled to a solid waste disposal site approved by ADEC.
3. The use of ground contact vehicles for off-road travel must be limited to those areas which have adequate ground frost and snow cover to prevent damage to the ground surface as determined by DNR DMLW Northern Region Office (NRO). Movement of equipment through willow (*Salix*) stands must be avoided wherever possible. The use of ground contact vehicles for off-road travel is subject to regional tundra travel openings and closure notices issued by DNR DMLW NRO.
4. Vehicles shall be operated in a manner such that the vegetative mat is not disturbed, and blading or removal of vegetative cover is prohibited except as approved by DNR DMLW NRO. Filling of low spots and smoothing using snow and ice is allowed. Incidents of vegetative mat damage and follow-up corrective actions shall be reported to the Division.
5. The DMLW maintains tundra monitoring stations throughout the North Slope. Tundra monitoring stations must not be impacted by permitted activities. Specific location information for these sites can be obtained from the DNR/DMLW directly by calling 907-451-2740.

Project Specific Stipulations:

1. The areas identified as high potential for encountering previously unidentified sites (labeled as "exclusion zones" will be avoided by all proposed activities until archaeological survey can be conducted, and DPOR is provided the opportunity to review the resulting report.

Reporting Stipulations:

1. **Geophysical Data Submission Requirement Form:** As a stipulation of the issuance of this MLUP for Geophysical Exploration, the permittee acknowledges the requirements of 11 AAC 96.210 (1) and agrees to notify the Director of the Division of the availability of processed seismic exploration data within 30 days of completion of initial processing and submit seismic exploration data. The Geophysical Data Submission Requirements can be found on the Division's Website <http://dog.dnr.alaska.gov/Services/Applications>. Your signature acknowledges your obligation to fulfill the Data Submittal requirements. This report shall be submitted to dog.permitting@alaska.gov before each survey commences.
2. **Activity Completion Report:** Upon expiration of the MLUP or completion of all activities authorized under the MLUP, whichever occurs first, an Activity Completion Report must be submitted summarizing activities, equipment trails, camps and staging areas, damages to State lands and surface impacts, lost equipment, fires, and unintended explosions, spills, land-use conflicts and work completed. The report shall include a map depicting all mulched trails. Rehabilitation, if required, shall be completed to the satisfaction of the DNR. This report shall be submitted to dog.permitting@alaska.gov.

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If no activities are completed under the MLUP, then an Activity Completion Report must be submitted on or before the expiration of the MLUP stating that no activities occurred.

3. **Geophysical Activity Completion Report Form:** The permittee must complete and return a Geophysical Activity Completion Report form for each survey acquired. Please submit a separate form for each sub-program data submittal. A non-confidential public completion report will be placed into the MLUP permit file each time a sub-program is completed. Geophysical Activity Completion reports must be submitted to the Division's Resource Evaluation Section within 30 days of completion of all activities. For in-depth instructions on how to complete the form, please refer to the Division's website <http://dog.dnr.alaska.gov/Services/Applications>. This report shall be submitted to dog.seismicdata@alaska.gov. If no activities are completed under the MLUP, a Geophysical Activity Completion Report must be submitted on or before the expiration of the MLUP (be sure to check box 27 to indicate the survey was cancelled).
4. **Geophysical Processing Completion Report Form:** The permittee must complete and return a Geophysical Processing Completion Report form for each survey acquired. Please submit a separate form for each sub-program data submittal. A confidential Processing Completion report will be submitted each time a sub-program is completed. The Processing Completion reports must be submitted to the Division's Resource Evaluation Section within 30 days of completion of initial processing. For in-depth instructions on how to complete the form, please refer to the Division's website: <http://dog.dnr.alaska.gov/Services/Applications>. This report shall be submitted to dog.seismicdata@alaska.gov.
5. **In-field Operations Notice:** During activities conducted under the MLUP, the permittee must submit weekly reports summarizing activities undertaken and their location within the permit area. These reports shall be submitted to dog.permitting@alaska.gov.
6. **Spill Notifications:** The permittee shall comply with the ADEC requirements for reporting the unauthorized discharge, leak, or spill of hydrocarbons or toxic or hazardous substances. The permittee shall notify the Department of Natural Resources of all spills that must be reported under 18 AAC 75.300 under timelines established therein. All unintentional fires and explosions must be reported to DNR immediately. The DNR 24-hour spill number is (907) 451-2678; the fax number is (907) 451-2751, DOG must be notified at dog.permitting@alaska.gov. DNR and ADEC shall be supplied with all follow-up incident reports.
7. Blowouts, as defined as the detonation of source points that cause surface damage, are reportable if the surface damage encompasses more than 36 inches. The report must include the location (Lat./Long. in WGS 84) and pictures of the blowout. All blowouts will need to be reclaimed or rehabilitated to the satisfaction of the DNR.
8. A summary record of all surface impacts, lost equipment, spills, fires, and unintended explosions, shall be included in the Permitting Section's completion report. Rehabilitation, if required, shall be completed to the satisfaction of the DNR.

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9. All fires and explosions that require a response to protect life and property must be reported to DNR and ADEC immediately and shall be supplied with all follow-up incident reports.
10. The Division's Permitting Section shall be notified in Anchorage by telephone at 907-269-8800 and by email at dog.permitting@alaska.gov if, during the conduct of activities, state resources are damaged, or a conflict occurs.
11. The permittee shall make available a copy of the seismic application, all subsequent modifications, and a copy of this permit and all its attachments to any interested party upon request in a reasonable time.

I acknowledge, and agree to these Permit terms, conditions and stipulations.



Authorized Representative Signature

3-15-19

Date

RUK-TRUPP

Authorized Representative Printed Name

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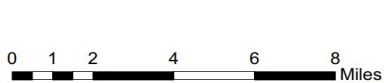
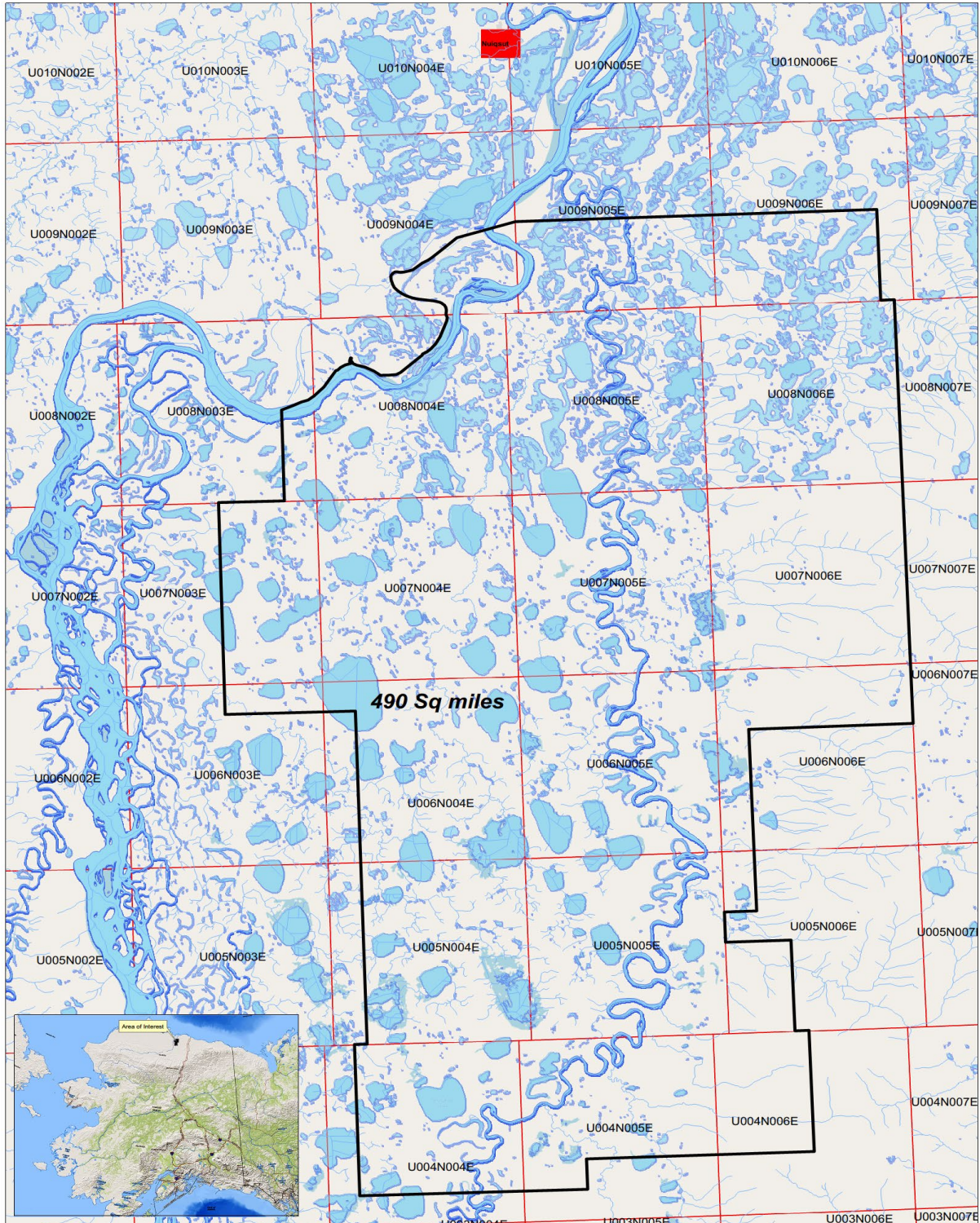
Appendix B: Comments

DPOR's Office of History and Archaeology (OHA) received the SAE Kuukpik 3D Southeast Addition request for review under the Alaska Historic Preservation Act (AS 41.35.070) on March 4, 2019. Upon review of the information provided, we believe the following avoidance measures are necessary to ensure adverse effects to cultural resource sites do not occur:

1. The areas identified as high potential for encountering previously unidentified sites (labeled as "exclusion zones" on Map 1) will be avoided by all proposed activities until archaeological survey can be conducted, and our office is provided the opportunity to review the resulting report.

Provided the above condition is followed, we believe that adverse effects to cultural resource sites are unlikely from the proposed project. Should inadvertent discoveries of cultural resources occur, activities in the area of the discovery should cease, and our office shall be notified to evaluate whether the resources should be preserved in the public interest.

Kuukpik 3D - 2019



Legend
Kuukpik 3D - Project Outline
Nulqsut Townships

1 in = 1 miles