



US Army Corps
of Engineers
Alaska District

Public Notice of Application for Permit

ANCHORAGE
Regulatory Division (1145)
CEPOA-RD
Post Office Box 6898
JBER, Alaska 99506-0898

PUBLIC NOTICE DATE:	January 15, 2020
EXPIRATION DATE:	February 14, 2020
REFERENCE NUMBER:	POA-2019-00636
WATERWAY:	Miluveach River

Interested parties are hereby notified that a Department of the Army permit application has been received for work in waters of the United States (U.S.) as described below and shown on the enclosed project drawings.

All comments regarding this Public Notice (PN) should be sent to the address noted above. If you desire to submit your comments by email, you should send it to the Project Manager's email as listed below or to regpagemaster@usace.army.mil. All comments should include the PN reference number listed above.

All comments should reach this office no later than the expiration date of this PN to become part of the record and be considered in the decision. Please contact Leslie W. Tose at (907) 753-5515, toll free from within Alaska at (800) 478-2712, by fax at (907) 753-5567, or by email at: Leslie.W.Tose@usace.army.mil if further information is desired concerning this notice.

APPLICANT: ASRC Exploration, LLC (AEX), Attention: Ms Theresa Imm, 3900 C Street, Suite 1000, Anchorage, Alaska 99503 Phone: 907-339-6014 Email: timm@asrc.com

AGENT: ASRC, Attention: Mr. Erik Kenning, 3900 C Street, Suite 401, Anchorage, Alaska 99503 Phone: 907-339-5483 Email: ekenning@asrc.com

LOCATION: The project site is located within Sections 4, 9, 15, 15, 22, 26, 27 Township - 11 North Range - 7 East, Umiat Meridian; Latitude 70.31429° N., Longitude 150.3745° W.; near Nuiqsut, Alaska. The proposed gravel road will take off from the existing gravel road between the Mustang Pad and the Mustang Gravel pit near Section 35 of Township 1 IN, 7E in the

Umiat Meridian. The Mustang Pad is about 45 miles west of Deadhorse and can be accessed via the Spine Road.

PURPOSE: The applicant's stated purpose is to develop oil within the Kuparuk C reservoir, contained within the Placer Unit, on the North Slope of Alaska.

PROPOSED WORK: Discharge approximately 68,000 cubic yards (CY) of gravel to construct an approximately seven acre gravel pad (Dimensions: top width varies between 250 feet (') and 400'; bottom width varies between 270' and 420', length will be 1000'. Pad will be 5' high with 2:1 fill slope.) and approximately 325,000 CY of gravel to construct a seven mile access road (Dimensions: 24 foot top width, 44' min bottom width, 5' to 6' feet high, 2:1 fill slope. The road will have a 37 acre footprint), and 3 phase pipeline with Vertical Support Members (VSMs) will transport fluids from the pad to a nearby processing facility. Total footprint of the project is 45.5 acres. All work would be performed in accordance with the enclosed plan (sheets 1-14), dated September 27, 2019.

ADDITIONAL INFORMATION:

North Slope Borough Area Rezone - Application is pending.

The Jurisdictional Determination and alternatives analysis, provided by the applicant, are available on request.

APPLICANT PROPOSED MITIGATION: The applicant proposes the following mitigation measures to avoid, minimize, and compensate for impacts to waters of the U.S. from activities involving discharges of dredged or fill material.

- a. Avoidance: Complete avoidance of impacts to wetlands is not possible.
 - The project would connect to existing road infrastructure, which would avoid the need to construct of entirely new infrastructure. The project will use existing gravel sources with existing access via ice roads and/or gravel roads from nearby projects.
 - The pad, road alignment, and pipeline route would be the minimum footprint necessary to construct the project.
 - The pad would be situated in an area of drier (saturated) wetlands and would avoid higher value permanently inundated wetlands to the extent practicable.
 - The project would avoid placement of gravel in locations supporting threatened or endangered species or critical habitats, including documented polar bear dens and denning habitat, or within the vicinity of documented nests for eiders and yellow billed loons.
 - Project construction would occur during the winter using ice roads to avoid impacts to wetlands, vegetation, fish and migratory birds from construction related fugitive dust and disturbance.
 - The pad, road, and VSMs are sited to eliminate crossing the Miluveach River.

- b. Minimization: AEX performed multi-years of exploration and reconnaissance activities so as to target the resource with a single pad and minimum number of wells.
- Project would conform to standard North Slope industry construction practices, and be subject to other permit and regulatory requirements including, but not limited to, the State of Alaska oil spill prevention and contingency plans, and Best Management Practices described in the North Slope Areawide Lease Sale Mitigation Measures and Lessee Advisories document. Fuel and other hazardous substances would be handled using safe liquid transfer practices, site inspections, and secondary containment of portable containers. Following construction, road watering and 35-mile per hour speed limits would minimize generation of fugitive dust.
 - To minimize the area of fill and subsequent wetland impacts, the pad would be sited in a relatively flat area, with 2V:1H side slopes.
 - To maintain a stable thermal regime, project fill would have a minimum thickness of 5-feet, to insulate the underlying tundra.
 - Pipelines would be placed on VSMS at a minimum of 7-feet above ground to minimize impacts to wetlands and wildlife migrations. Pipelines would be placed at a minimum of 500-feet from the road, where practicable.
 - To maintain natural drainage patterns, culverts will be installed under the road every 1,000 feet
 - Project features have been designed and sited to achieve a minimum 500-foot setback from fish bearing streams, where practicable. No fishing bearing waters or high probability cultural resource areas are located within a 200-foot buffer surrounding the proposed pad.

c. Compensatory Mitigation: AEX used the Alaska District's "Thought Process for Evaluation of Compensatory Mitigation" to analyze the need for Compensatory Mitigation. AEX concluded that the wetland impacts of the proposed project, combined with avoidance and minimization measures, would be minor in comparison to the size and condition of the undeveloped wetland areas within the larger overall watershed. Also, there are currently no In-Lieu Fee or approved mitigation banks with services areas that would cover the proposed impacts from this project. Compensatory mitigation for the 45.5 acres of jurisdictional wetlands does not appear necessary.

WATER QUALITY CERTIFICATION: A permit for the described work will not be issued until a certification or waiver of certification, as required under Section 401 of the Clean Water Act (Public Law 95-217), has been received from the Alaska Department of Environmental Conservation.

CULTURAL RESOURCES: The latest published version of the Alaska Heritage Resources Survey (AHRs) has been consulted for the presence or absence of historic properties, including those listed in or eligible for inclusion in the National Register of Historic Places. There are no cultural resources in the permit area or within the vicinity of the permit area. The permit area has been determined to be the footprint of the project. Consultation of the AHRs

constitutes the extent of cultural resource investigations by the Corps of Engineers (Corps) at this time, and we are otherwise unaware of the presence of such resources. The Corps has made a No Potential to Cause Effects determination for the proposed project. Consultation with the State Historic Preservation Office (SHPO) is not required, however, any comments SHPO may have concerning presently unknown archeological or historic data that may be lost or destroyed by work under the requested permit will be considered in our final assessment of the described work.

ENDANGERED SPECIES: The project area is within the known or historic range of the threatened spectacled eiders (*Somateria fischeri*), Alaska-breeding Steller's eiders (*Polysticta stelleri*), polar bears (*Ursus maritimus*) and designated polar bear critical habitat.

We have determined the described activity would have no effect on any listed or proposed threatened or endangered species, and would have no effect on any designated or proposed critical habitat, under the Endangered Species Act of 1973 (87 Stat. 844). Therefore, no consultation with the U.S. Fish and Wildlife Service or the National Marine Fisheries Service (NMFS) is required. However, any comments they may have concerning endangered or threatened wildlife or plants or their critical habitat will be considered in our final assessment of the described work.

ESSENTIAL FISH HABITAT: The Magnuson-Stevens Fishery Conservation and Management Act, as amended by the Sustainable Fisheries Act of 1996, requires all Federal agencies to consult with the National Marine Fisheries Service on all actions, or proposed actions, permitted, funded, or undertaken by the agency, that may adversely affect Essential Fish Habitat (EFH).

No EFH species are known to use the project area.

We have determined the described activity would not adversely affect EFH in the project area.

TRIBAL CONSULTATION: The Alaska District fully supports tribal self-governance and government-to-government relations between Federally recognized Tribes and the Federal government. Tribes with protected rights or resources that could be significantly affected by a proposed Federal action (e.g., a permit decision) have the right to consult with the Alaska District on a government-to-government basis. Views of each Tribe regarding protected rights and resources will be accorded due consideration in this process. This PN serves as notification to the Tribes within the area potentially affected by the proposed work and invites their participation in the Federal decision-making process regarding the protected Tribal right or resource. Consultation may be initiated by the affected Tribe upon written request to the District Commander during the public comment period.

PUBLIC HEARING: Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearings shall state, with particularity, reasons for holding a public hearing.

EVALUATION: The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts, which the proposed activity may have on the public interest, requires a careful weighing of all the factors that become relevant in each particular case. The benefits, which reasonably may be expected to accrue from the proposal, must be balanced against its reasonably foreseeable detriments. The outcome of the general balancing process would determine whether to authorize a proposal, and if so, the conditions under which it will be allowed to occur. The decision should reflect the national concern for both protection and utilization of important resources. All factors, which may be relevant to the proposal, must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards, floodplain values, land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving 404 discharges, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria (see Sections 320.2 and 320.3), a permit will be granted unless the District Commander determines that it would be contrary to the public interest.

The Corps is soliciting comments from the public; Federal, State, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. Any comments received will be considered by the Corps to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

AUTHORITY: This permit will be issued or denied under the following authority:

(X) Discharge dredged or fill material into waters of the United States – Section 404 Clean Water Act (33 U.S.C. 1344). Therefore, our public interest review will consider the guidelines set forth under Section 404(b) of the Clean Water Act (40 CFR 230).

Project drawings and a Notice of Application for State Water Quality Certification are enclosed with this Public Notice.

District Commander
U.S. Army, Corps of Engineers

Enclosures

STATE OF ALASKA

DEPT. OF ENVIRONMENTAL CONSERVATION
DIVISION OF WATER

Wastewater Discharge Authorization Program (WDAP) / 401 Certification

DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WDAP/401 CERTIFICATION
555 CORDOVA STREET
ANCHORAGE, ALASKA 99501-2617
PHONE: (907) 269-6285 | EMAIL: dec-401cert@alaska.gov

NOTICE OF APPLICATION FOR STATE WATER QUALITY CERTIFICATION

Any applicant for a federal license or permit to conduct an activity that might result in a discharge into navigable waters, in accordance with Section 401 of the Clean Water Act of 1977 (PL95-217), also must apply for and obtain certification from the Alaska Department of Environmental Conservation that the discharge will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. By agreement between the U.S. Army Corps of Engineers and the Department of Environmental Conservation, application for a Department of the Army permit to discharge dredged or fill material into navigable waters under Section 404 of the Clean Water Act also may serve as application for State Water Quality Certification.

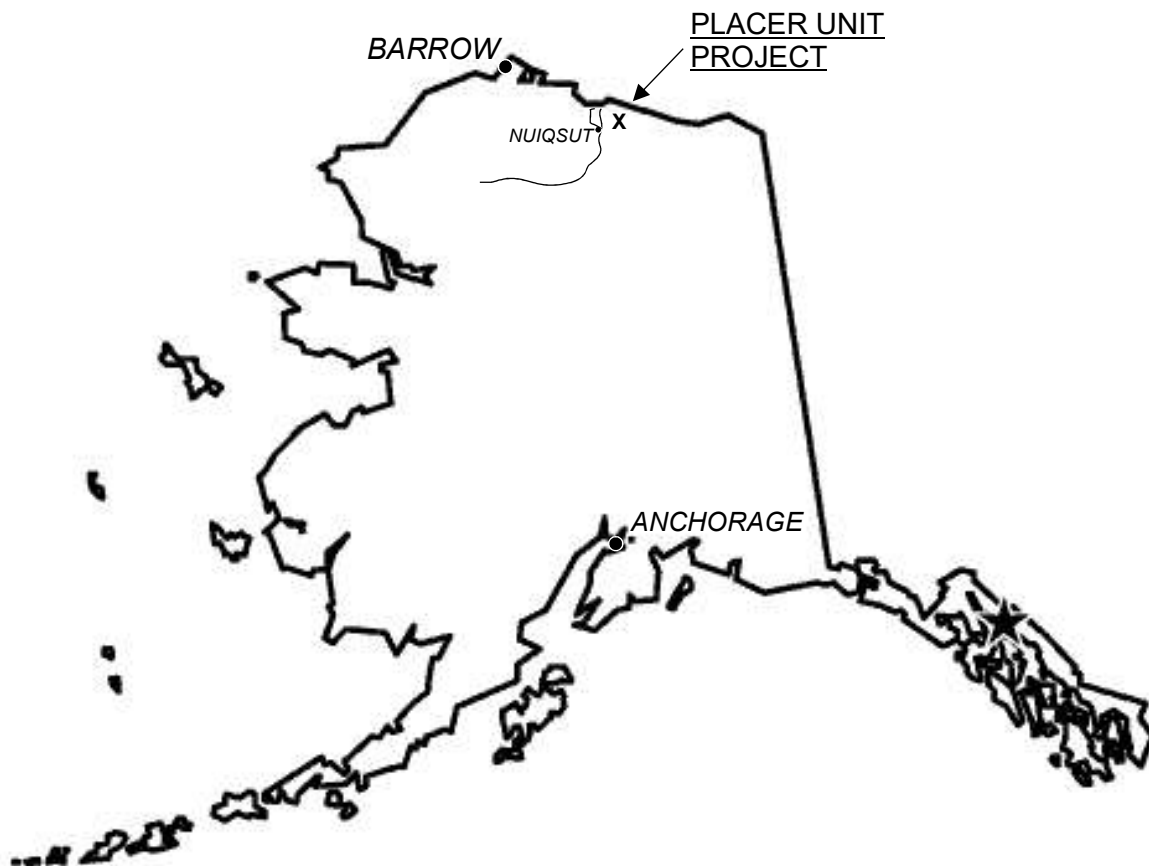
Notice is hereby given that the application for a Department of the Army Permit described in the Corps of Engineers' Public Notice (PN) Reference Number **POA-2019-00636, Miluveach River**, serves as application for State Water Quality Certification from the Department of Environmental Conservation.

After reviewing the application, the Department may certify there is reasonable assurance the activity, and any discharge that might result, will comply with the Clean Water Act, the Alaska Water Quality Standards, and other applicable State laws. The Department also may deny or waive certification.

Any person desiring to comment on the project with respect to Water Quality Certification, may submit written comments to the address above or via email to dec-401cert@alaska.gov by the expiration date of the Corps of Engineer's Public Notice. All comments should include the PN reference number listed above. Mailed comments must be postmarked on or before the expiration date of the public notice.

Disability Reasonable Accommodation Notice

The State of Alaska, Department of Environmental Conservation complies with Title II of the Americans with Disabilities Act of 1990. If you are a person with a disability who may need special accommodation in order to participate in this public process, please contact Theresa Zimmerman at 907-465-6171 or TDD Relay Service 1-800-770-8973/TTY or dial 711 within 5 days of the expiration date of this public notice to ensure that any necessary accommodations can be provided.



ALASKA VICINITY MAP



PURPOSE: CONSTRUCT A
DRILLING PAD, GRAVEL ROAD
AND PIPELINE FOR OILFIELD
DEVELOPMENT

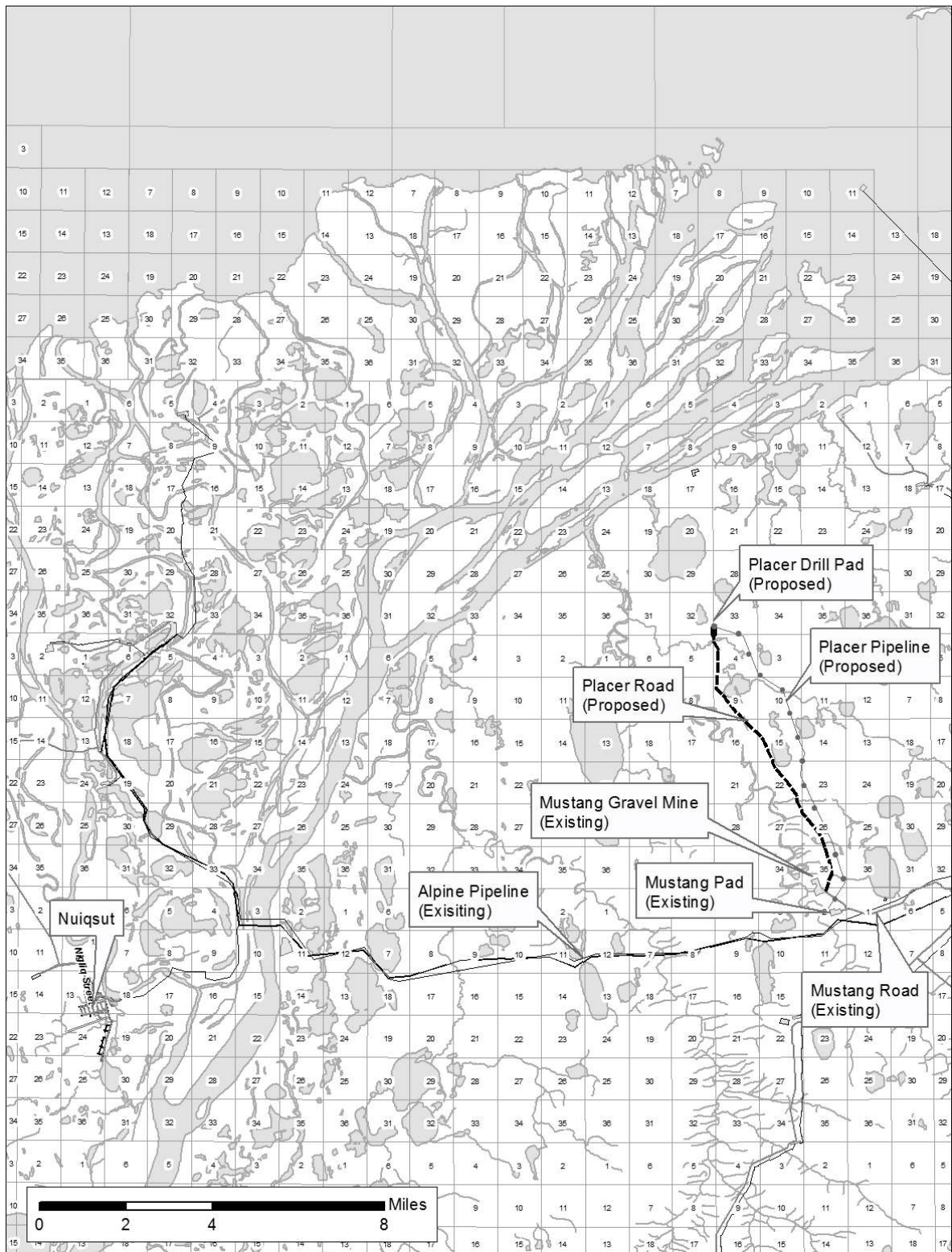
ADJACENT PROPERTY
OWNERS:

1. STATE OF ALASKA DNR
2. KUUKPIK VILLAGE CORP

APPLICANT: ASRC
EXPLORATION,
LLC (AEX)
LOCATION: T11N, R7E
UMIAT MERIDIAN
ADDRESS: 3900 C STREET
SUITE 1000
ANCHORAGE, AK
99503

POA-2019-00636, MILUVEACH RIVER
PROPOSED: PLACER PAD, ROAD &
PIPELINE

LOCATION: LATITUDE 70.314299,
LONGITUDE 150.37459 W; IN PLACER
UNIT NEAR/AT: MUSTANG PROJECT
NORTH SLOPE BOROUGH, ALASKA



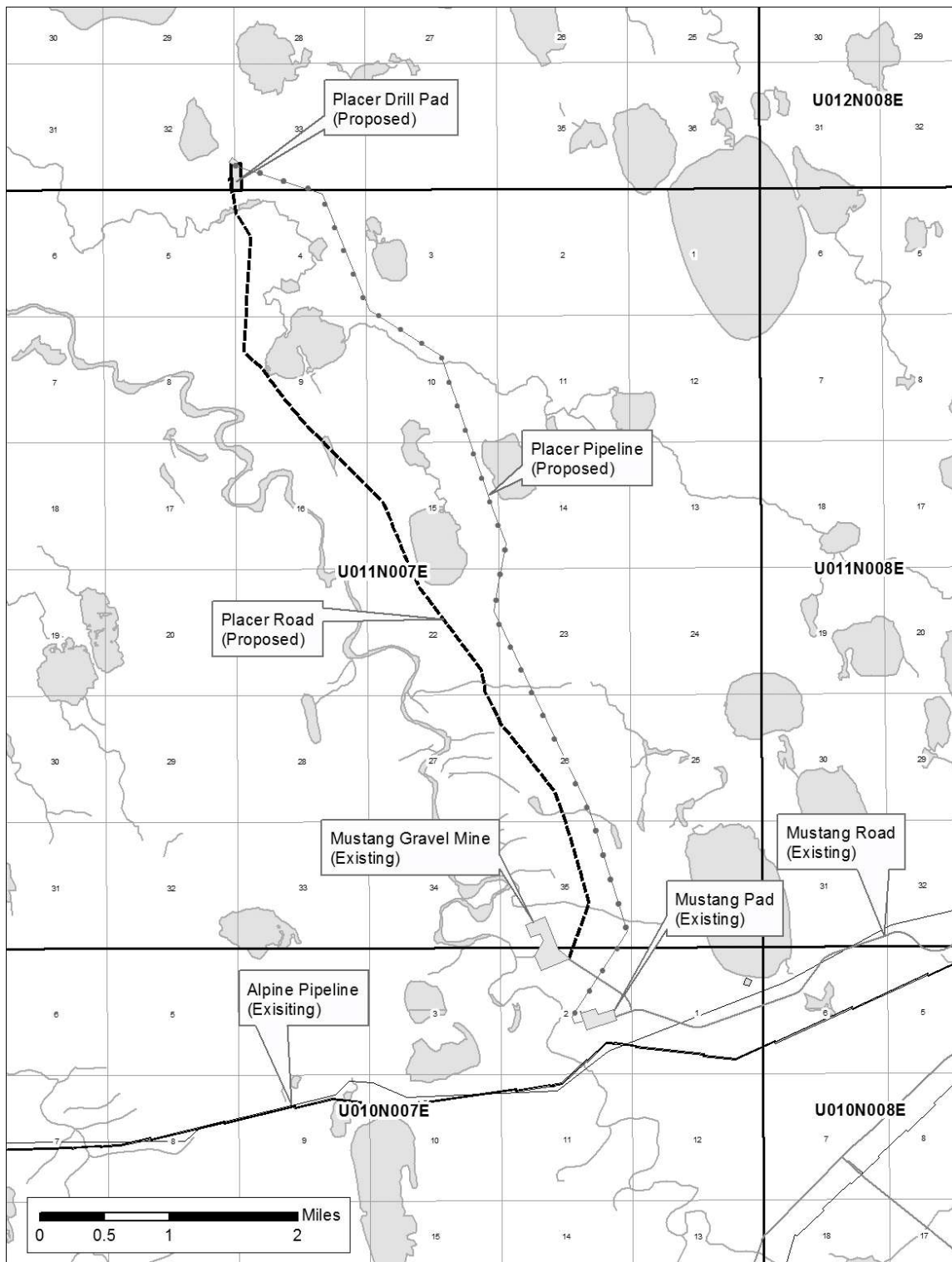
PLACER PROJECT LOCATION MAP

POA-2019-00636, Miluveach River
 APPLICANT: AEX
 PROPOSED: PLACER PAD,
 ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
 Longitude 150.3745° W

SHEET 2 OF 14

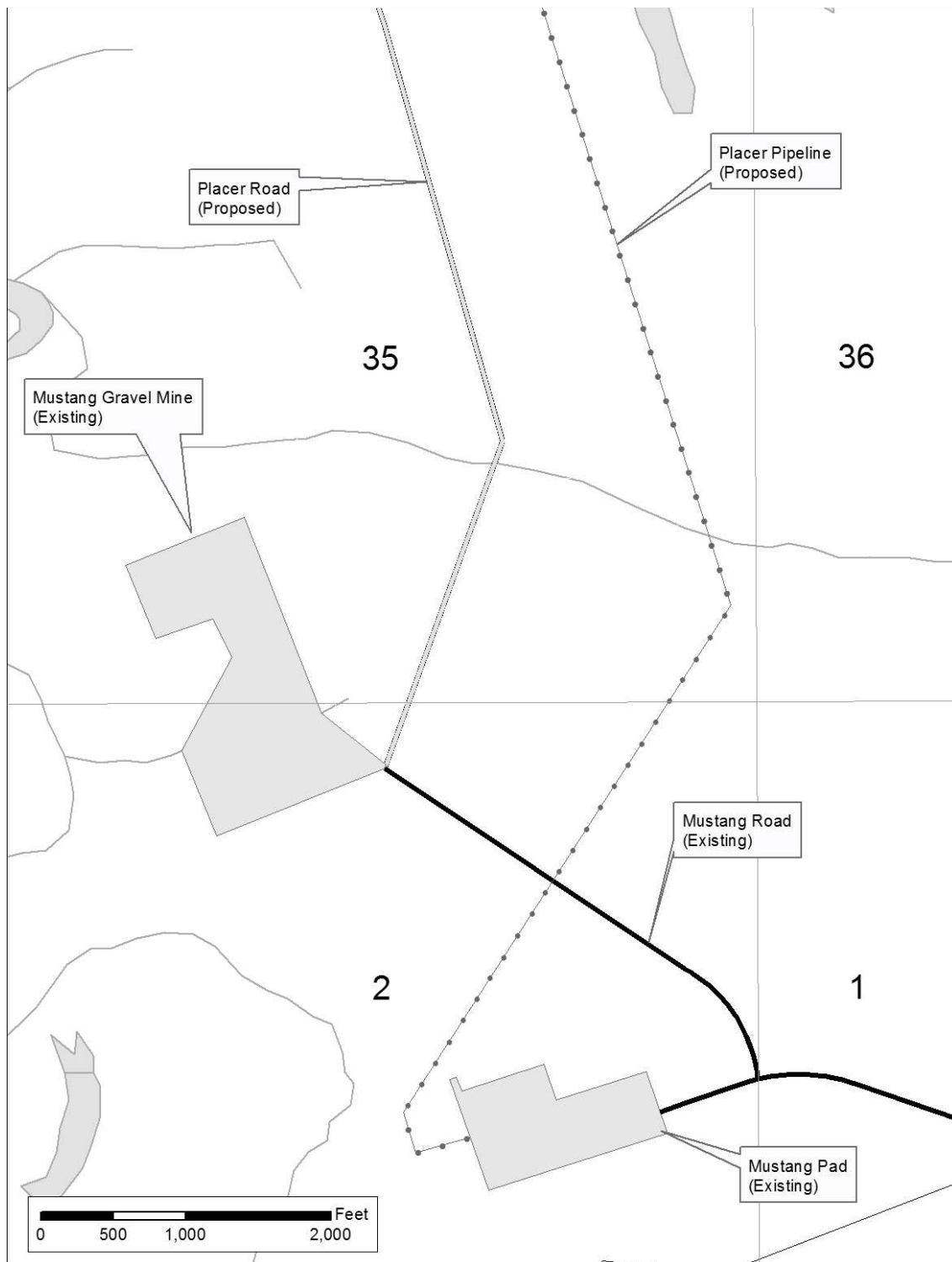
9-27-19



PLACER PROJECT MAP

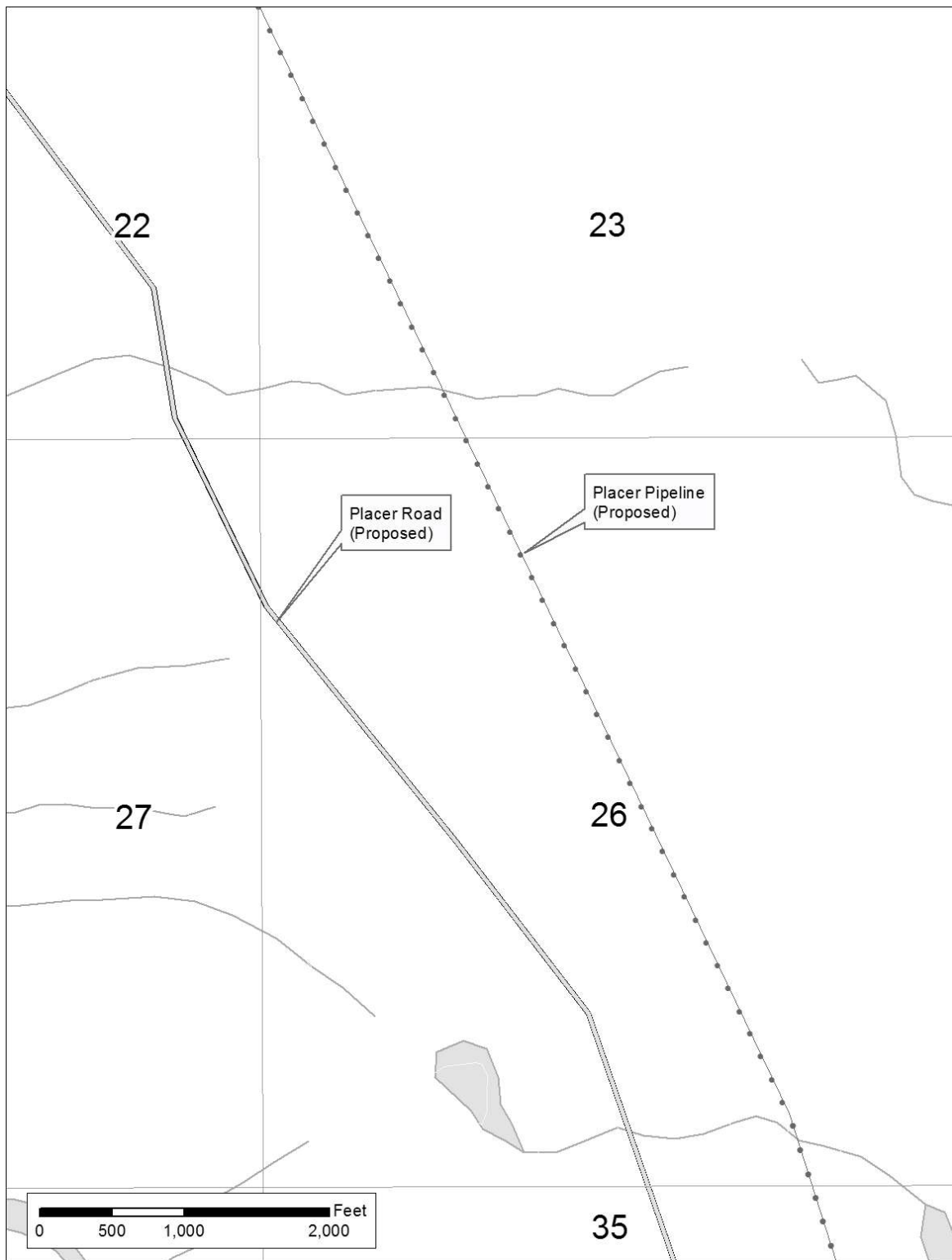
POA-2019-00636, Miluveach River
 APPLICANT: AEX
 PROPOSED: PLACER PAD,
 ROAD, & PIPELINE

LOCATION: Latitude 70.31429° N.,
 Longitude 150.3745° W



MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 1 OF 6

POA-2019-00636, Miluveach River
 APPLICANT: AEX
 PROPOSED: PLACER PAD,
 ROAD & PIPELINE
 LOCATION: Latitude 70.31429° N.,
 Longitude 150.3745° W.



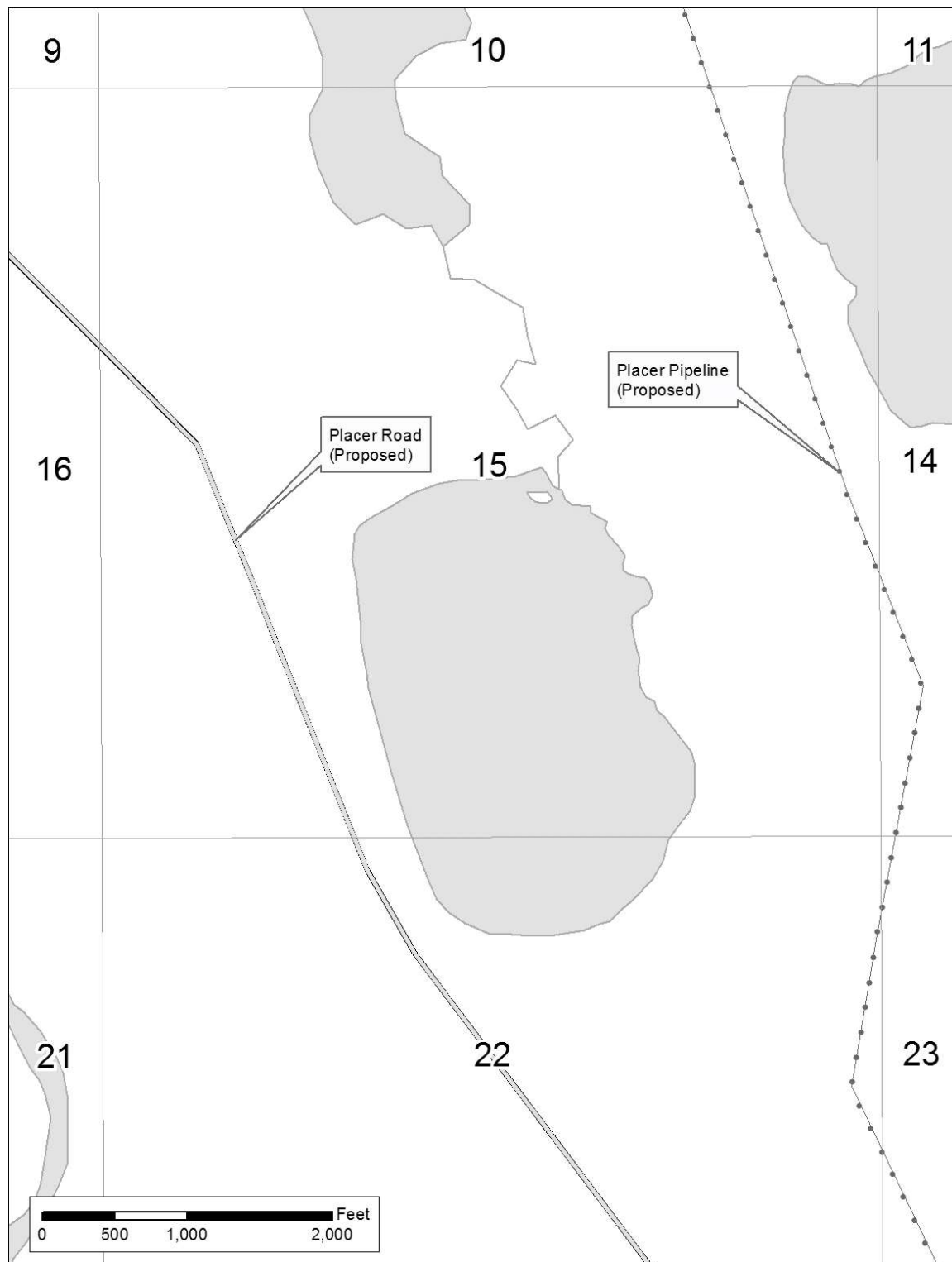
MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 2 OF 6

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 5 OF 14

9-27-19



MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 3 OF 6

POA-2019-00636, Miluveach River
 APPLICANT: AEX
 PROPOSED: PLACER PAD,
 ROAD, & PIPELINE
 LOCATION: Latitude 70.31429° N.,
 Longitude 150.3745° W



MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 4 OF 6

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 7 OF 14

9-27-19



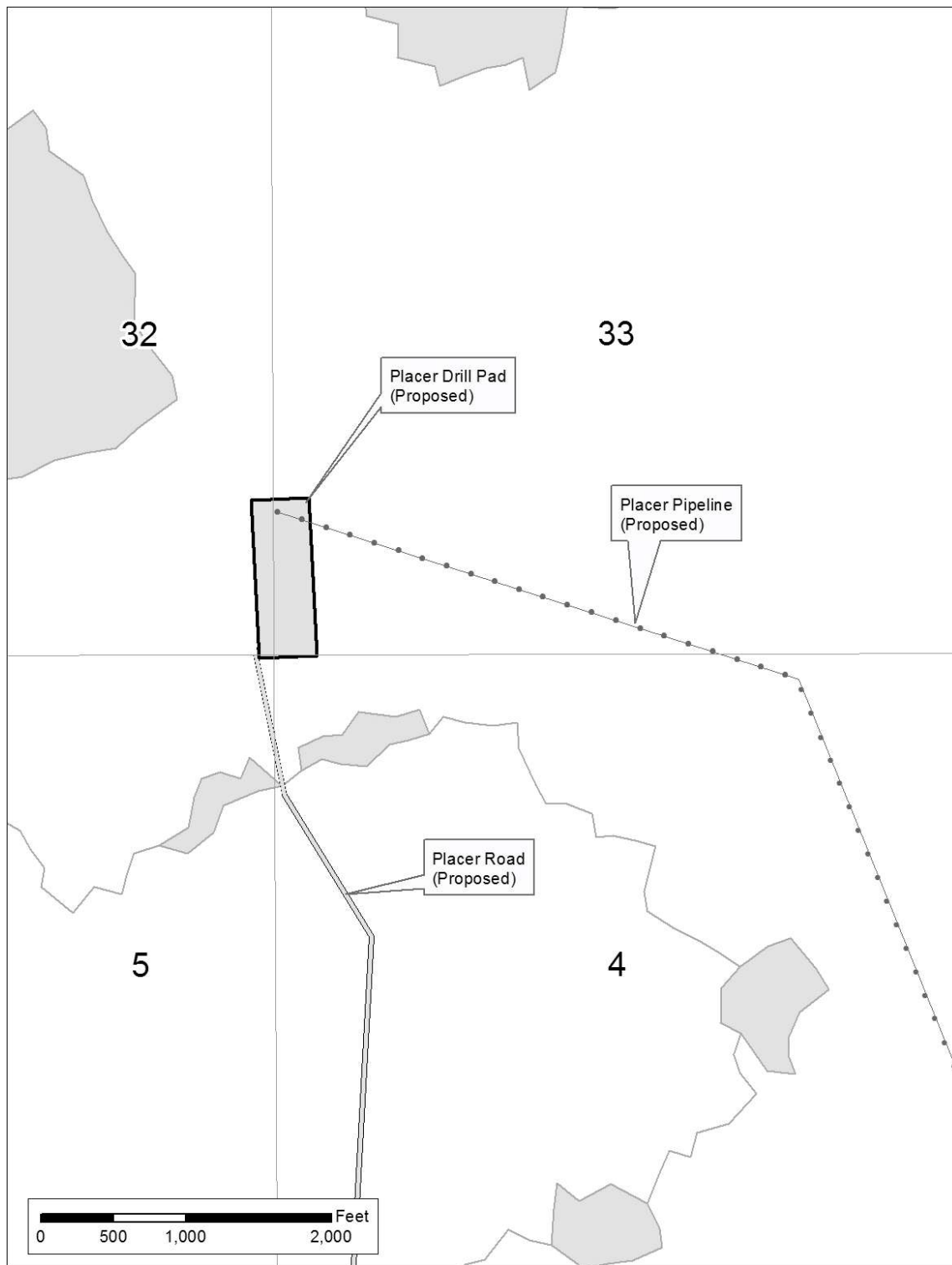
MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 5 OF 6

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 8 OF 14

9-27-19



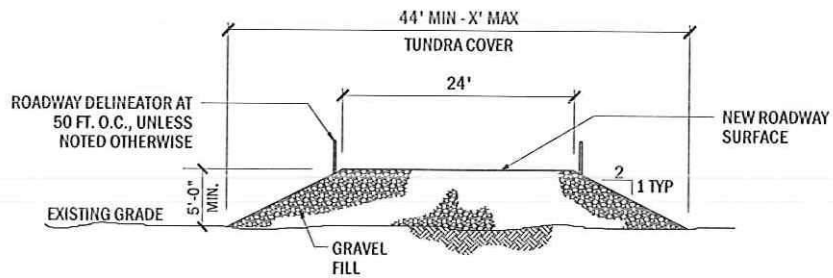
MUSTANG TO PLACER 1 DRILL PAD
ROUTE MAP 6 OF 6

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 9 OF 14

9-27-19



GRAVEL ROAD SECTION
NOT TO SCALE

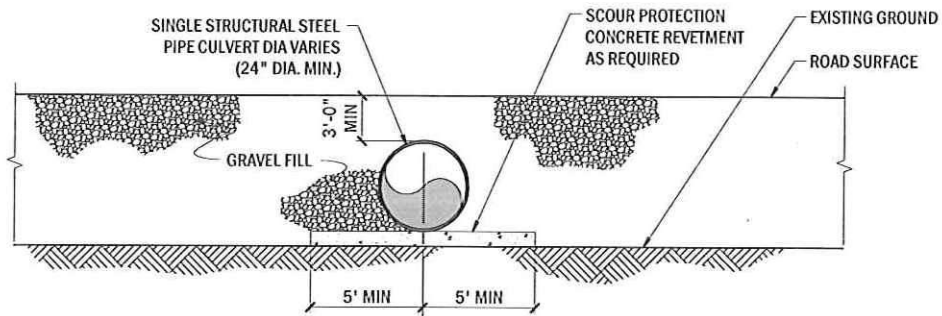
**PLACER PROJECT PROPOSED TYPICAL
ROAD SECTIONS**

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

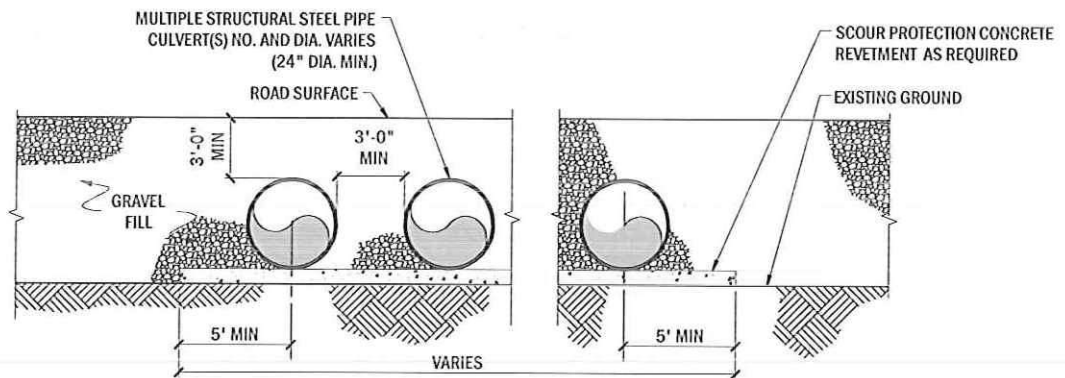
LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 10 OF 14

9-27-19

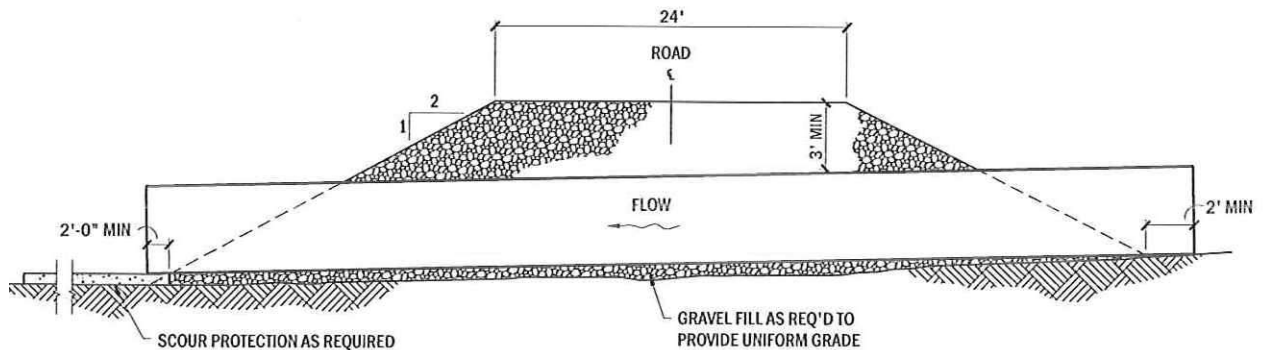


PROPOSED CULVERT(S) ELEVATION



TYPICAL MULTIPLE CULVERTS ELEVATION

NOT TO SCALE



PROPOSED CULVERT SECTION

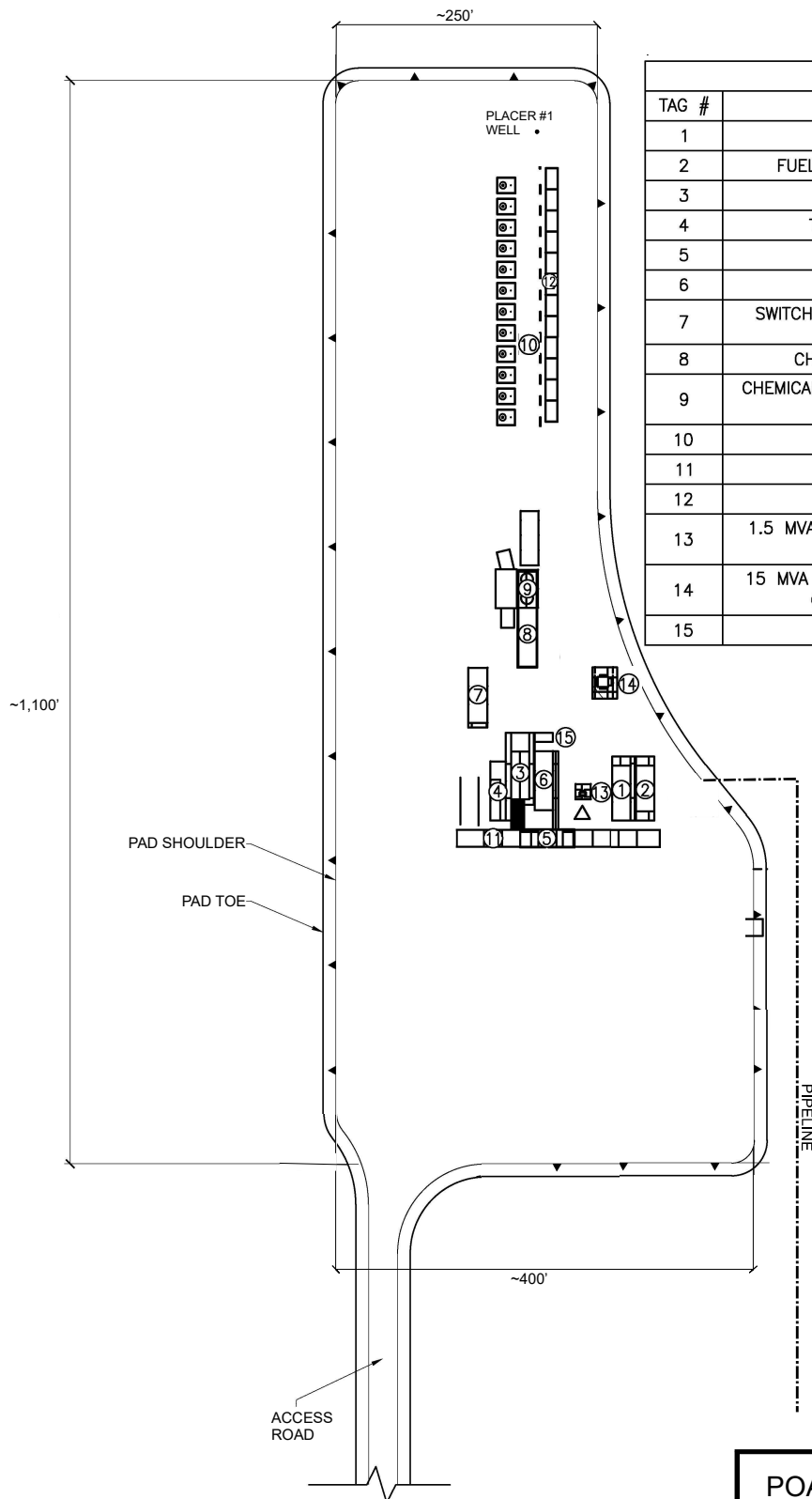
PLACER PROJECT PROPOSED TYPICAL CROSS DRAINAGE CULVERT SECTIONS

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 11 OF 14

9-27-19



MODULE TABLE	
TAG #	DESIGNATION
1	PIGGING MODULE
2	FUEL GAS CONDITIONING MODULE
3	PRODUCTION HEATER
4	TEST SEPARATOR MODULE
5	ESD MODULE
6	REIM MODULE
7	SWITCHGEAR-UTILITY ROOM MODULE / TRANSFORMER
8	CHEMICAL INJECTION MODULE
9	CHEMICAL STORAGE (TYPE IC FLAMMABLE, CORROSIVE LIQUID)
10	WELL HOUSE
11	LP PIPERACK
12	HP PIPERACK
13	1.5 MVA TRANSFORMER PLATFORM (400 GALLON OIL-INSULATED)
14	15 MVA TRANSFORMER PLATFORM (1700 GALLON OIL- INSULATED)
15	ENVIROVAC

PLACER PROJECT PROPOSED PAD FOOTPRINT WITH 12 WELLS

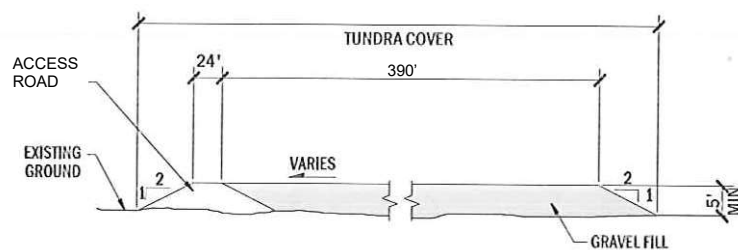
TUNDRA COVER: 7 ACRES
GRAVEL QUANTITY: ~68,000 CY
MINIMUM GRAVEL DEPTH: 5' WITH 2:1 FILL SLOPES

POA-2019-00636, Miluveach River
APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

SHEET 12 OF 14

9-27-19

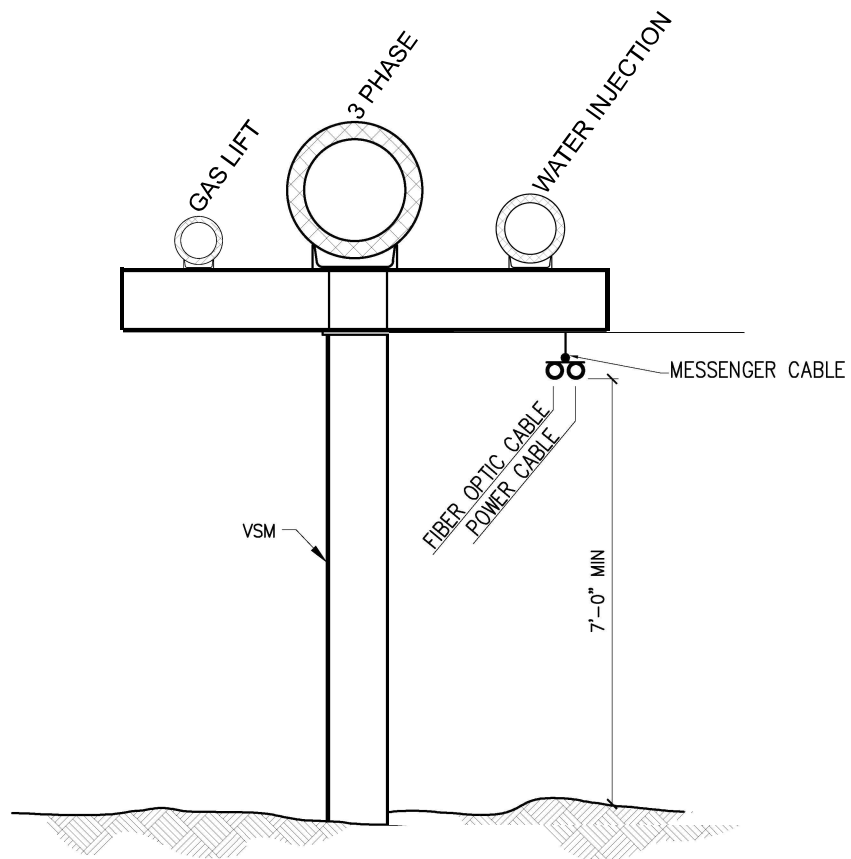


PLACER DRILL PAD SECTION
NOT TO SCALE

**PLACER PROJECT PROPOSED TYPICAL
DRILL PAD SECTION**

APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD, & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W



TYPICAL PIPELINE SECTION
NOT TO SCALE

PLACER PROJECT PROPOSED TYPICAL
PIPELINE SECTION

APPLICANT: AEX
PROPOSED: PLACER PAD,
ROAD & PIPELINE

LOCATION: Latitude 70.31429° N.,
Longitude 150.3745° W

U.S. ARMY CORPS OF ENGINEERS
APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT

33 CFR 325. The proponent agency is CECW-CO-R.

OMB APPROVAL NO. 0710-0003
EXPIRES: 28 FEBRUARY 2013

Public reporting for this collection of information is estimated to average 11 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of the collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters, Executive Services and Communications Directorate, Information Management Division and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413; Regulatory Programs of the Corps of Engineers; Final Rule 33 CFR 320-332. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public and may be made available as part of a public notice as required by Federal law. Submission of requested information is voluntary, however, if information is not provided the permit application cannot be evaluated nor can a permit be issued. One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and/or instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO. POA-2019-00636	2. FIELD OFFICE CODE CEPOA-RD-N	3. DATE RECEIVED 01/08/2020	4. DATE APPLICATION COMPLETE 01/14/2020
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(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME First - Teresa Middle - Last - Imm Company - ASRC Exploration, LLC (AEX) E-mail Address - timm@asrc.com	8. AUTHORIZED AGENT'S NAME AND TITLE (agent is not required) First - Erik Middle - Last - Kenning Company - ASRC E-mail Address - ekenning@asrc.com
6. APPLICANT'S ADDRESS: Address- 3900 C Street, Suite 1000 City - Anchorage State - AK Zip - 99503 Country -	9. AGENT'S ADDRESS: Address- 3900 C Street, Suite 401 City - Anchorage State - AK Zip - 99503 Country -
7. APPLICANT'S PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 907-339-6014	10. AGENTS PHONE NOS. w/AREA CODE a. Residence b. Business c. Fax 907-339-5483

STATEMENT OF AUTHORIZATION

11. I hereby authorize, Erik Kenning to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.


SIGNATURE OF APPLICANT

12/18/19
DATE

NAME, LOCATION, AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions) Placer Unit Development	13. NAME OF WATERBODY, IF KNOWN (if applicable) Miluveach River	14. PROJECT STREET ADDRESS (if applicable) Address N/A City - State - Zip -
15. LOCATION OF PROJECT Latitude: °N 70°18'51.44"N Longitude: °W 150°22'28.30"W	16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) State Tax Parcel ID Municipality North Slope Borough Section - 4,9,15,15,22,26,27 Township - Umiat 11 North Range - 7 East	

17. DIRECTIONS TO THE SITE

The proposed gravel road will take off from the existing gravel road between the Mustang Pad and the Mustang Gravel pit near Section 35 of Township 11N, 7E in the Umat Meridian. The Mustang Pad is about 45 miles west of Deadhorse and can be accessed via the Spine Road.

18. Nature of Activity (Description of project, include all features)

Development of AEX's Placer Unit with a single approximate 7 acre gravel pad, 7 mile gravel road and 3-phase pipeline. Proposed development would occur in Hydrologic Unit Code (HUC) 1906030412 and 1906030413.

19. Project Purpose (Describe the reason or purpose of the project, see instructions)

AEX has identified Kuparuk C as the anchor productive interval within the Placer Unit. Based on recent engineering work AEX has finalized a Development Plan for developing the Kuparuk C reservoir with 2 producers and 2 injectors within the Placer Unit. A single gravel pad will be required to drill these wells, which will be accessed via a gravel road. A 3-phase pipeline will transport fluids from the pad to a nearby processing facility.

USE BLOCKS 20-23 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

In order for AEX to develop its leases within the Placer Unit, AEX must construct a single drill pad, gravel access road and 3-phase pipeline.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards:

Type Amount in Cubic Yards	Type Amount in Cubic Yards	Type Amount in Cubic Yards
Gravel Pad ~68,000 cy	Gravel Road ~325,000 cy	

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

Acres Approximate 7 acre drill pad and 7 mile gravel access road (approx 37 acres)
or
Linear Feet

23. Description of Avoidance, Minimization, and Compensation (see instructions)

See attached Mitigation Statement.

24. Is Any Portion of the Work Already Complete? ☐ Yes ☒ No IF YES, DESCRIBE THE COMPLETED WORK

25. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

a. Address- State of Alaska DNR - 550 W 7th Ave#1360

City - Anchorage

State - AK

Zip - 99501

b. Address-

City -

State -

Zip -

c. Address-

City -

State -

Zip -

d. Address-

City -

State -

Zip -

e. Address-

City -

State -

Zip -

26. List of Other Certificates or Approvals/Denials received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
North Slope Borough	Area Rezone		Pending application		
ADEC 401	WQC		Concurrent with 404		

* Would include but is not restricted to zoning, building, and flood plain permits

27. Application is hereby made for permit or permits to authorize the work described in this application. I certify that this information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

SIGNATURE OF APPLICANT

12/19/19

DATE

SIGNATURE OF AGENT

12-19-19

DATE

The Application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than \$10,000 or imprisoned not more than five years or both.