



US Army Corps
of Engineers
Alaska District

Public Notice of Application for Permit

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

PUBLIC NOTICE DATE:	January 31, 2023
EXPIRATION DATE:	March 2, 2023
REFERENCE NUMBER:	POA-2015-00025-M7
WATERWAY:	Ugnuravik 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 as described below and shown on the enclosed project drawings.

All comments regarding this public notice 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 public notice reference number listed above.

All comments should reach this office no later than the expiration date of this public notice to become part of the record and be considered in the decision. Please contact Janet Post at (907) 753-2831, toll free from within Alaska at (800) 478-2712, or by email at Janet.L.Post@usace.army.mil if further information is desired concerning this public notice.

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited, Attn: Kollin Fencil kollin.fencil@santos.com, P.O. Box 240927, Anchorage, AK 99524

AGENT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited, Attn: Patrick Conway, patrick.conway@santos.com, P.O. Box 240927, Anchorage, AK 99524, (907) 903-1762

LOCATION: The proposed project is located at several sites: Latitude 70.511017° N., Longitude 149.862592° W.; Latitude 70.292828° N., Longitude 149.877171° W.; Latitude 70.26676° N., Longitude 149.561747° W.; 32 miles west of Deadhorse, Alaska.

PURPOSE: The applicant's stated purpose is to provide a long-term supply of fuel gas and sea water that is reliable and in sufficient quantity to allow Oil Search (Alaska) to optimize production efficiency from the Pikka Development project.

PROPOSED WORK: Discharge 7,900 cubic yards of fill into 1.2 acres of wetlands for Sea Water Treatment Plant (STP) equipment crossings. Discharge 8,800 cubic yards of fill into 0.4-acre of wetlands for STP road pipeline crossings. Discharge 1,600 cubic yards of fill into 0.2-acre of wetlands for STP Pigging Platform at Spine Road Y. Discharge 3,000 cubic yards of fill into 0.5-acre of wetlands for Gas Spur Pipeline (GSP) equipment crossings. Discharge 4,400 cubic yards of fill into 0.4-acre of wetlands for GSP parking Pad/Platforms at DS-1C Road. Discharge 1,500 cubic yards of fill into 0.2-acre of wetlands for 30 STP Vertical Support Members (VSM). Discharge 1,840 cubic yards of fill into 0.1-acre of wetlands for 460 GSP VSMs. Discharge 170 cubic yards of fill into 0.1-acre of wetlands for bonding cable trenching. For a total discharge of 29,210 cubic yards into 3.1 acres of wetlands. All work would be performed in accordance with the enclosed plan (sheets 1-21), dated November 2022.

ADDITIONAL INFORMATION: The Nanushuk project Environmental Impact Statement was completed and permit POA-2015-00025 was issued. The proposed project would be a modification to the original permit.

PERMITS AND APPROVALS:

Agency/Corporation	Permits and Approvals
Alaska Department of Natural Resources (DNR)	Division of Mining, Land, and Water – Division of Oil and Gas & State Pipeline Coordinator's Section
Alaska DNR, Division of Oil and Gas	Off Road and Tundra Travel Authorization
Alaska Department of Fish and Game	Fish Habitat Permit for Ice Road Water Body Crossings; Public Safety Permit (Annual)
U.S. Fish and Wildlife Service (USFWS)	Letter of Authorization for Intentional and Incidental Take of Polar Bears (Annual); Section 7 Consultation.
Alaska Department of Environmental Conservation	401 Certification and North Slope Stormwater General Permit
Alaska DNR State Historic Preservation Office (SHPO)	Section 106 Consultation
North Slope Borough (NSB)	Administrative Approvals
Kuukpik Corporation	Kuukpik and Oil Search Land Use Agreement – October 30, 2019

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

a. **Avoidance:** The following measures will be taken to avoid impacts to the greatest extent practicable: The proposed project modifications have been sited adjacent to existing infrastructure on the North Slope, where feasible. Gravel will either be stockpiled on uplands or be transported directly from the material site and placed within the project footprint. Single-season ice roads will be used to support winter construction, avoiding the need for additional fill to support construction. Drilling for vertical support members (VSM) will occur from an ice road, and drill cuttings will be sidecast onto the ice around each VSM, avoiding a discharge of fill material into WOTUS. The sidecasting will not change the bottom elevation of WOTUS or replace any portion of WOTUS with dry ground. The drill cuttings will be removed once VSM installation is complete.

b. **Minimization:** All fill material acquired for the project will be clean fill material and sourced from one of the local mine sites. The pipeline will be elevated above grade on VSMS to reduce impacts to permafrost and flow patterns of surface waters. The pipeline and horizontal support members will be a minimum of seven (7) feet above tundra surface, except where pipelines intersect a road, pad, or other pipeline, to minimize impacts to caribou and other terrestrial wildlife. Pipelines will have a non-reflective finish to reduce reflectivity and potential impacts to wildlife from visual disturbances. Water withdrawal for ice pad and ice road construction will be conducted in compliance with water withdrawal authorizations and fish habitat permit stipulations to maintain adequate lake volumes in fish-bearing lakes.

c. **Compensatory Mitigation:** A compensatory mitigation plan was approved for the Nanushuk project under file number POA-2015-00025. Oil Search (Alaska) does not propose additional compensatory mitigation beyond what is being implemented under the approved plan.

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 project footprint. Consultation of the AHRs constitutes the extent of cultural resource investigations by the U.S. Army Corps of Engineers (Corps) at this time, and we are otherwise unaware of the presence of such resources. The Corps has made a No Historic Properties Affected (No Effect) determination for the proposed project. This application is being coordinated with the State Historic Preservation Office (SHPO), federally recognized tribes, and other consulting parties. Any comments SHPO, federally recognized tribes, and other consulting parties 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. The Corps is requesting SHPO's concurrence with this determination.

ENDANGERED SPECIES: The project area is within the known or historic range of the polar bear (*Ursus maritimus*), Steller's eiders (*Polysticta stelleri*), and spectacled eiders (*Somateria fisheri*).

We are currently gathering information regarding these species and have yet to make a determination of effect. Should we find that the described activity may affect the species listed above, we will follow the appropriate consultation procedures under Section 7 of the Endangered Species Act of 1973 (87 Stat. 844). Any comments the U.S. Fish and Wildlife Service or the National Marine Fisheries Service (NMFS) 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 NMFS 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 Corps 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 public notice 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.

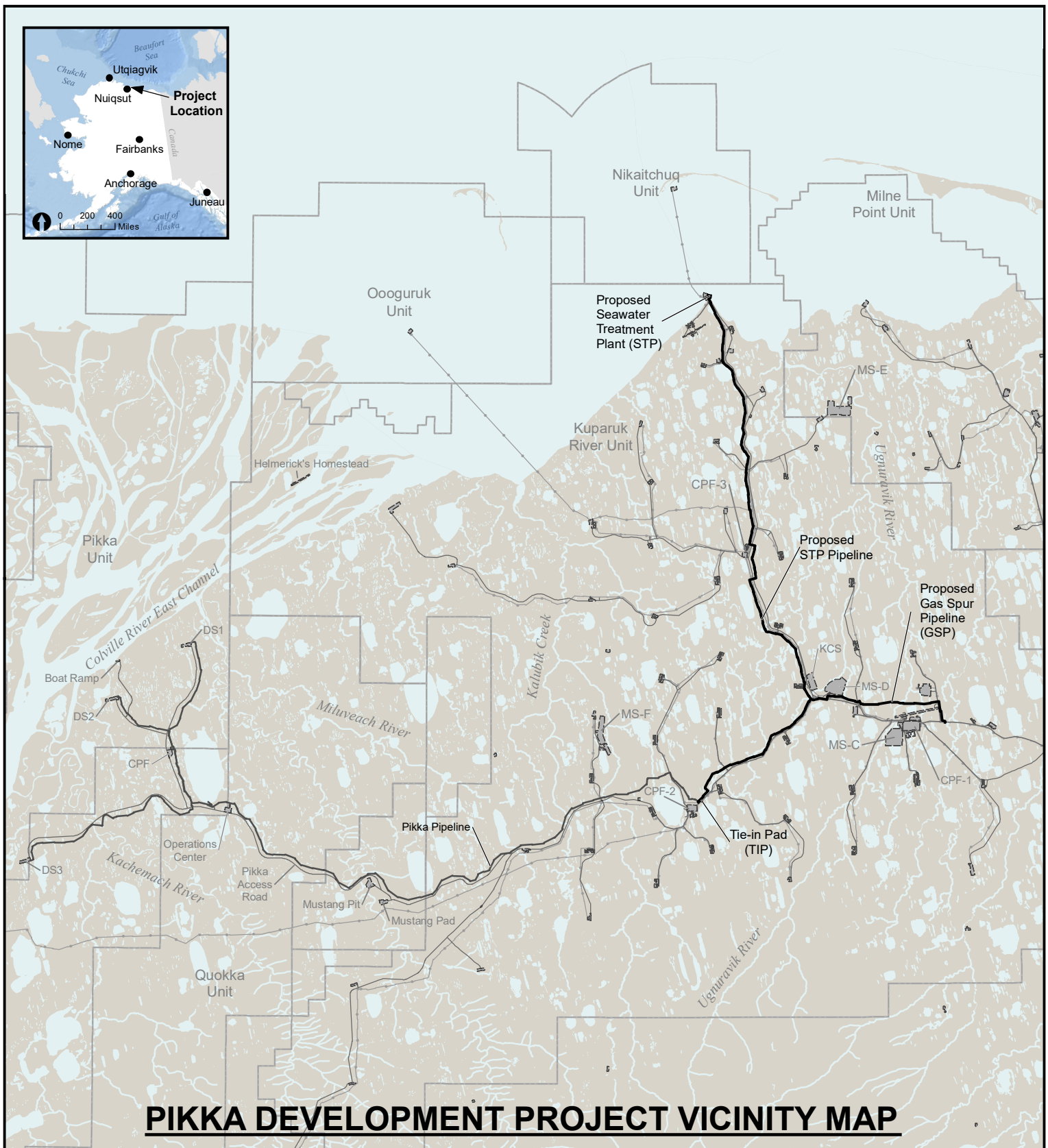
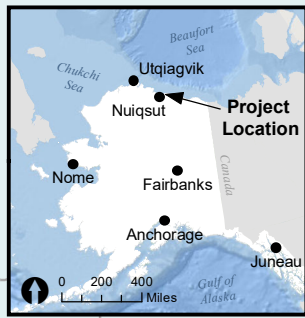
AUTHORITY: This permit will be issued or denied under the following authority:

(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 are enclosed with this public notice.

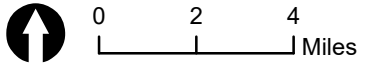
District Commander
U.S. Army, Corps

Enclosure



PIKKA DEVELOPMENT PROJECT VICINITY MAP

- | | |
|-------------------|---------------------------|
| Proposed Pipeline | Proposed STP |
| Pikka Pipeline | Existing Facility |
| Existing Pipeline | Oil and Gas Unit Boundary |
| Existing Road | Waterbody |
| | Wetland |



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

ADDRESS: 900 E. Benson Blvd, Level 5 Anchorage, AK 99508 USA

PROJECT: Pikka Development Project

LOCATION: T13N R9E ; T12N R9E; T11N R9, 10E

ACTIVITY: Road, Pad, and Pipeline Construction

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough

STATE: Alaska

SHEET 1 OF 21

DATE: November 2022

DATUM: NAVD88, NAD83 Alaska State Plane Zone 4

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APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

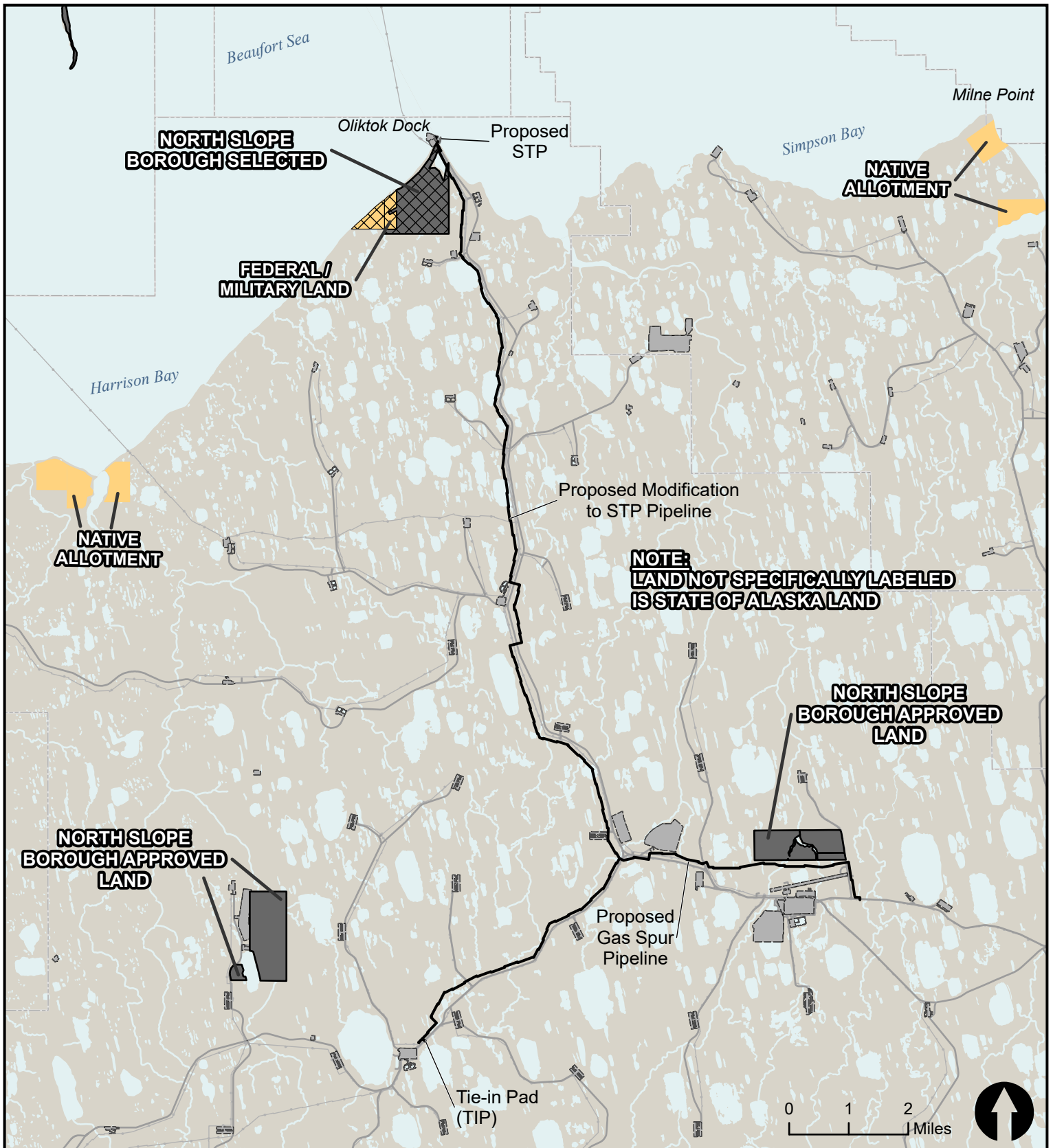
WATERWAY: Ugnuravik River

COUNTY: North Slope Borough

STATE: Alaska

SHEET 2 OF 21

DATE: November 2022

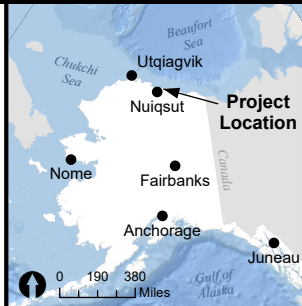


**NOTE:
LAND NOT SPECIFICALLY LABELED
IS STATE OF ALASKA LAND**



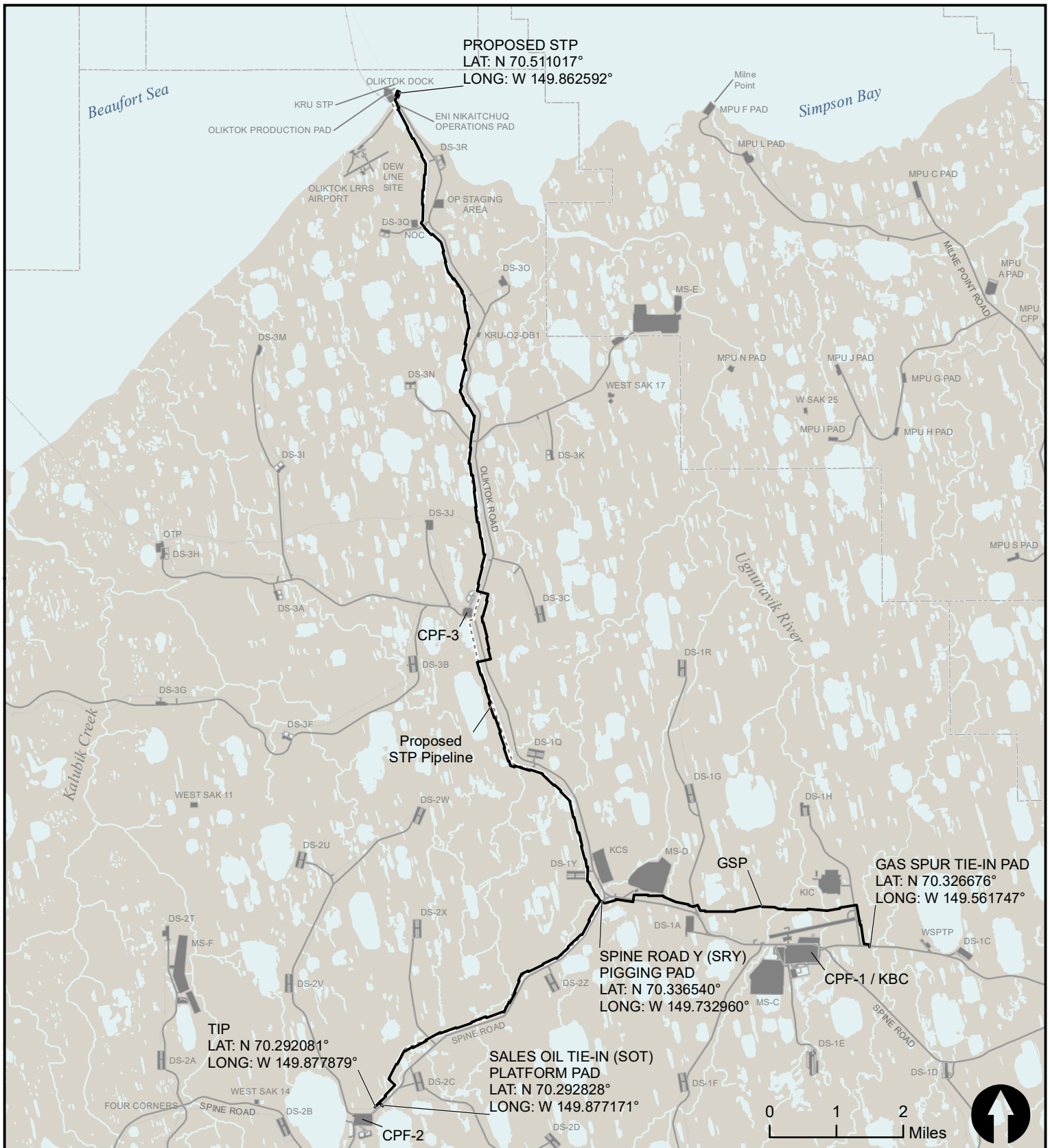
Adjacent Land Ownership

- Proposed Pipeline
- Existing Pipeline
- Existing Road
- Existing Facility
- Oil and Gas Unit Boundary
- North Slope Borough Land
- Native Allotment
- Federal Ownership
- Waterbody
- Wetland



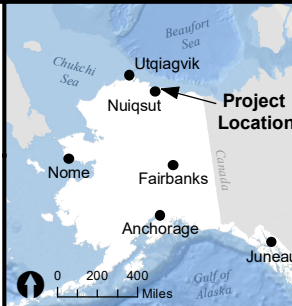
APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited
 FILE NO: POA-2015-00025
 WATERWAY: Ugnuravik River
 COUNTY: North Slope Borough
 STATE: Alaska
 SHEET 3 OF 21
 DATE: November 2022

DATUM: NAVD88, NAD83 Alaska State Plane Zone 4



Project Overview

- Proposed Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Existing Road
- Oil and Gas Unit Boundary
- Proposed STP
- Existing Facility
- Waterbody
- Wetland



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

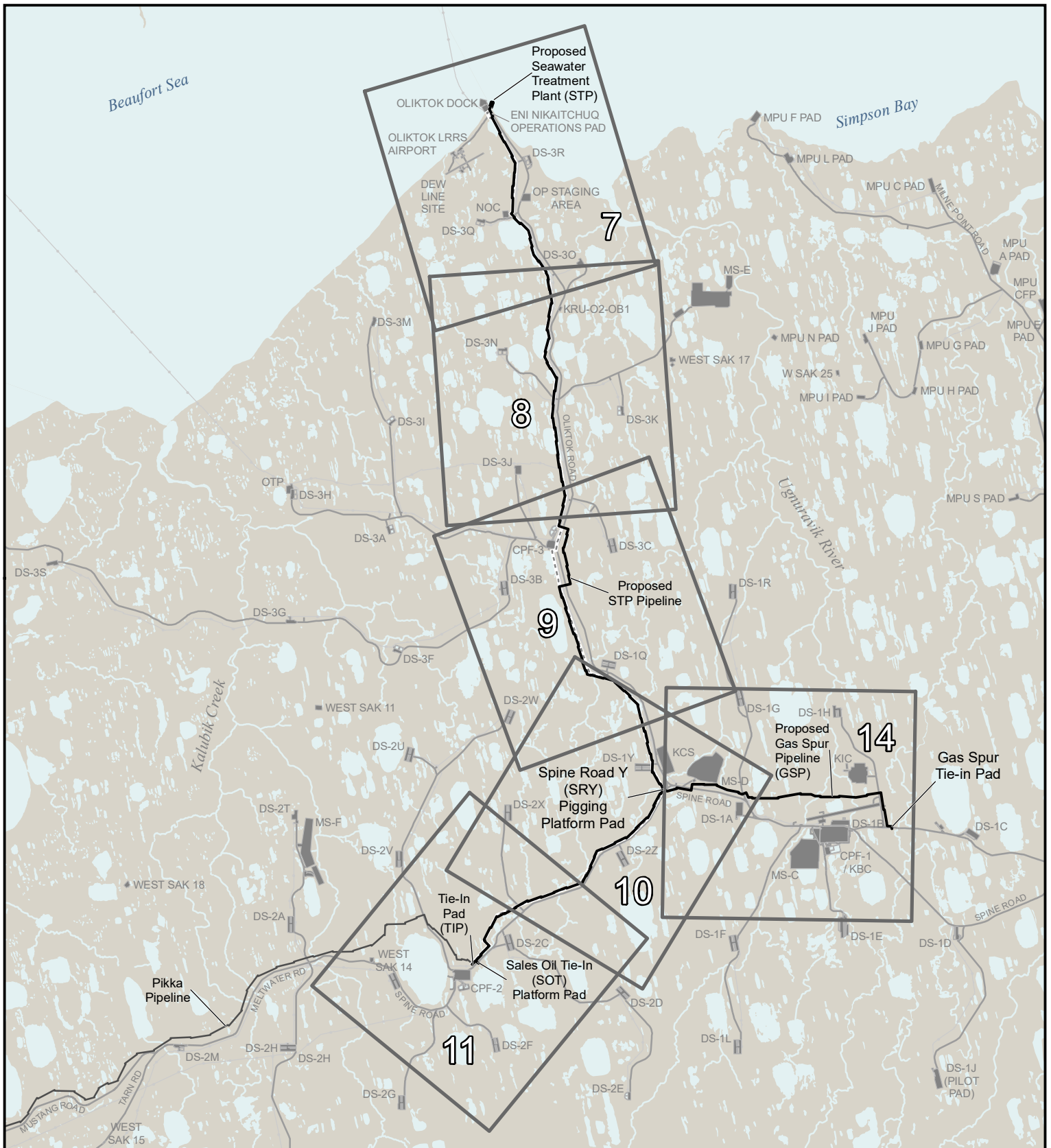
WATERWAY: Ugnuravik River

COUNTY: North Slope Borough

STATE: Alaska

SHEET 5 OF 21

DATE: November 2022



Project Components

- Proposed Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Pikka Pipeline
- Sheet Extent
- Existing Facility
- Waterbody
- Wetland

Project Location

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited
FILE NO: POA-2015-00025
WATERWAY: Ugnuravik River
COUNTY: North Slope Borough
STATE: Alaska
SHEET 6 OF 21
DATE: November 2022

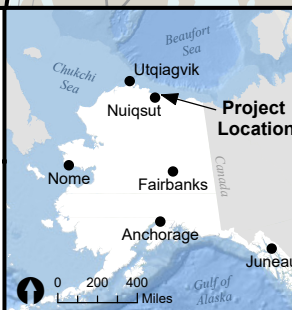


STP-TIP Detail Sheet 7

- Proposed STP Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Existing Powerline
- Proposed Pad
- Existing Facility
- Waterbody
- Wetland



0 0.5 Miles



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

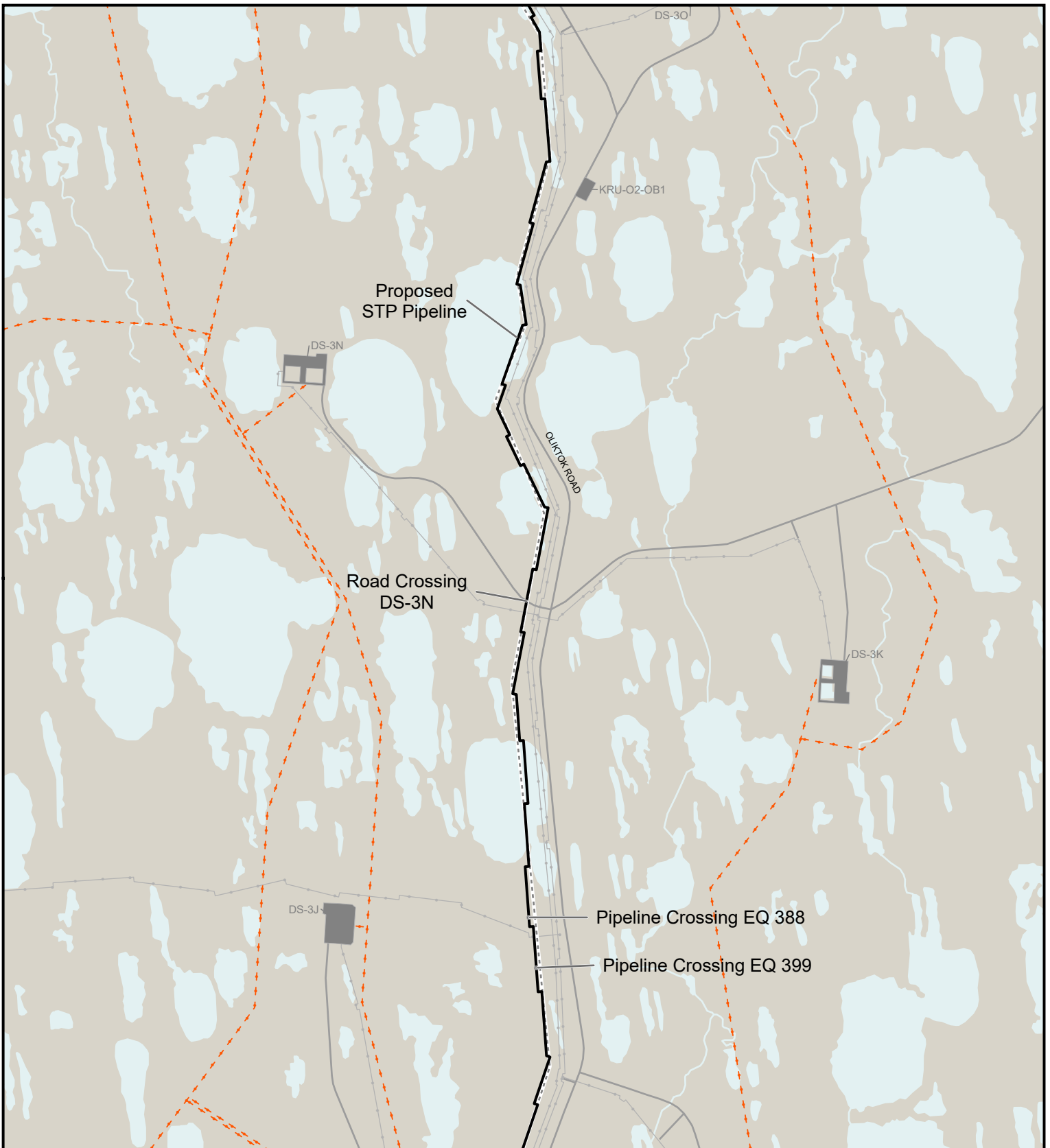
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WATERWAY: Ugnuravik River









COUNTY: North Slope Borough
STATE: Alaska

SHEET: 7 OF 21

DATE: November 2022

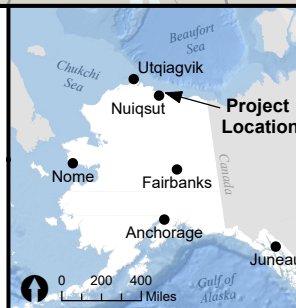


STP-TIP Detail Sheet 8

-  Proposed STP Pipeline
-  Permitted STP Pipeline
-  Existing Pipeline
-  Existing Powerline
-  Proposed Pad
-  Existing Facility
-  Waterbody
-  Wetland



0 0.5 Miles



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

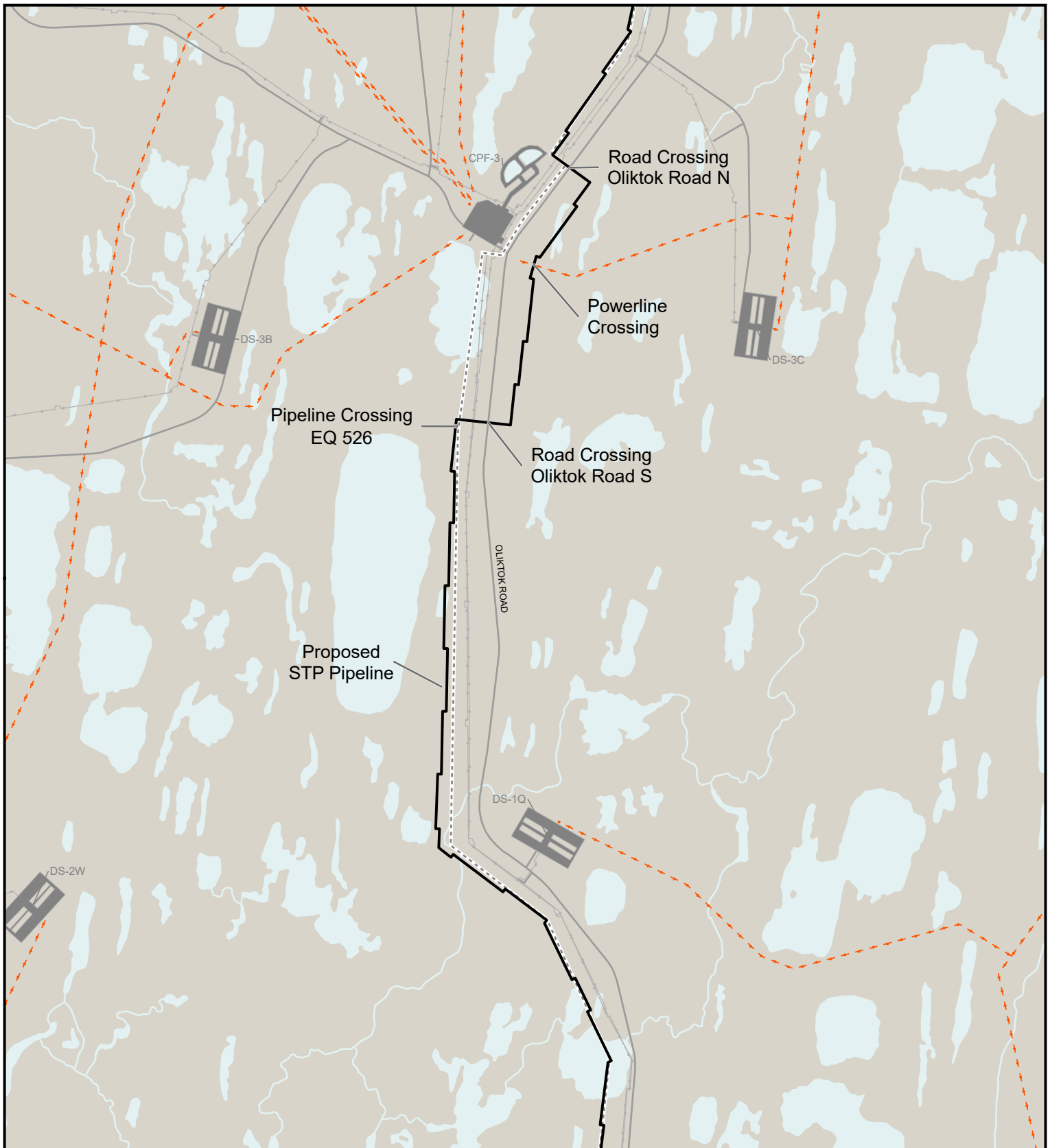
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WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 8 OF 21

DATE: November 2022

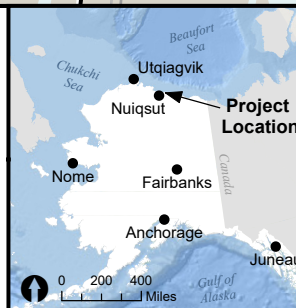


STP-TIP Detail Sheet 9

- Proposed STP Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Existing Powerline
- Proposed Pad
- Existing Facility
- Waterbody
- Wetland



0 0.5 Miles



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

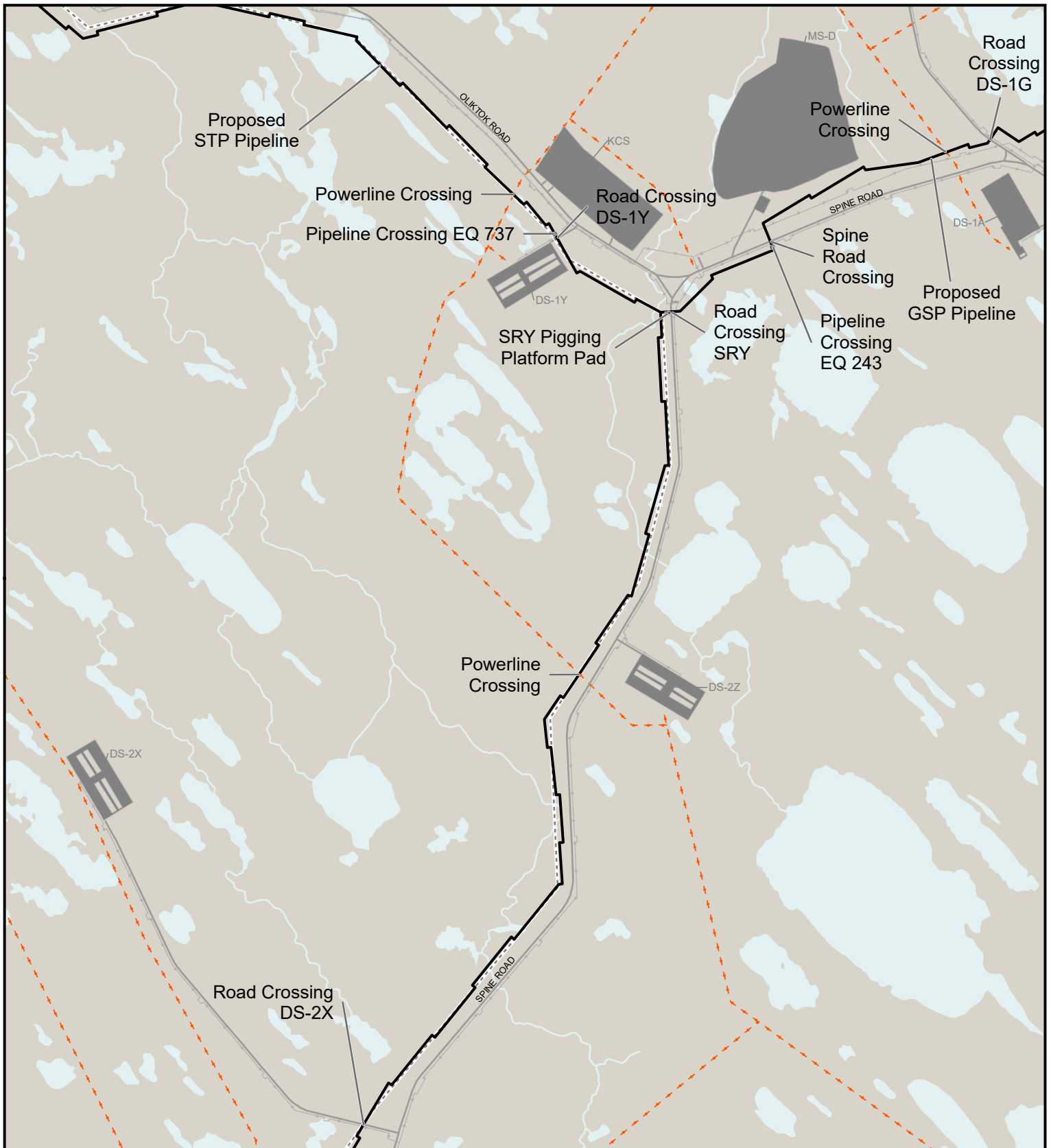
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WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 9 OF 21

DATE: November 2022

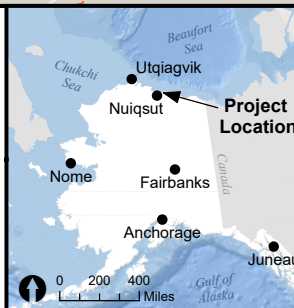


STP-TIP Detail Sheet 10

- Proposed Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Existing Powerline
- Proposed Pad
- Existing Facility
- Waterbody
- Wetland



0 0.5 Miles



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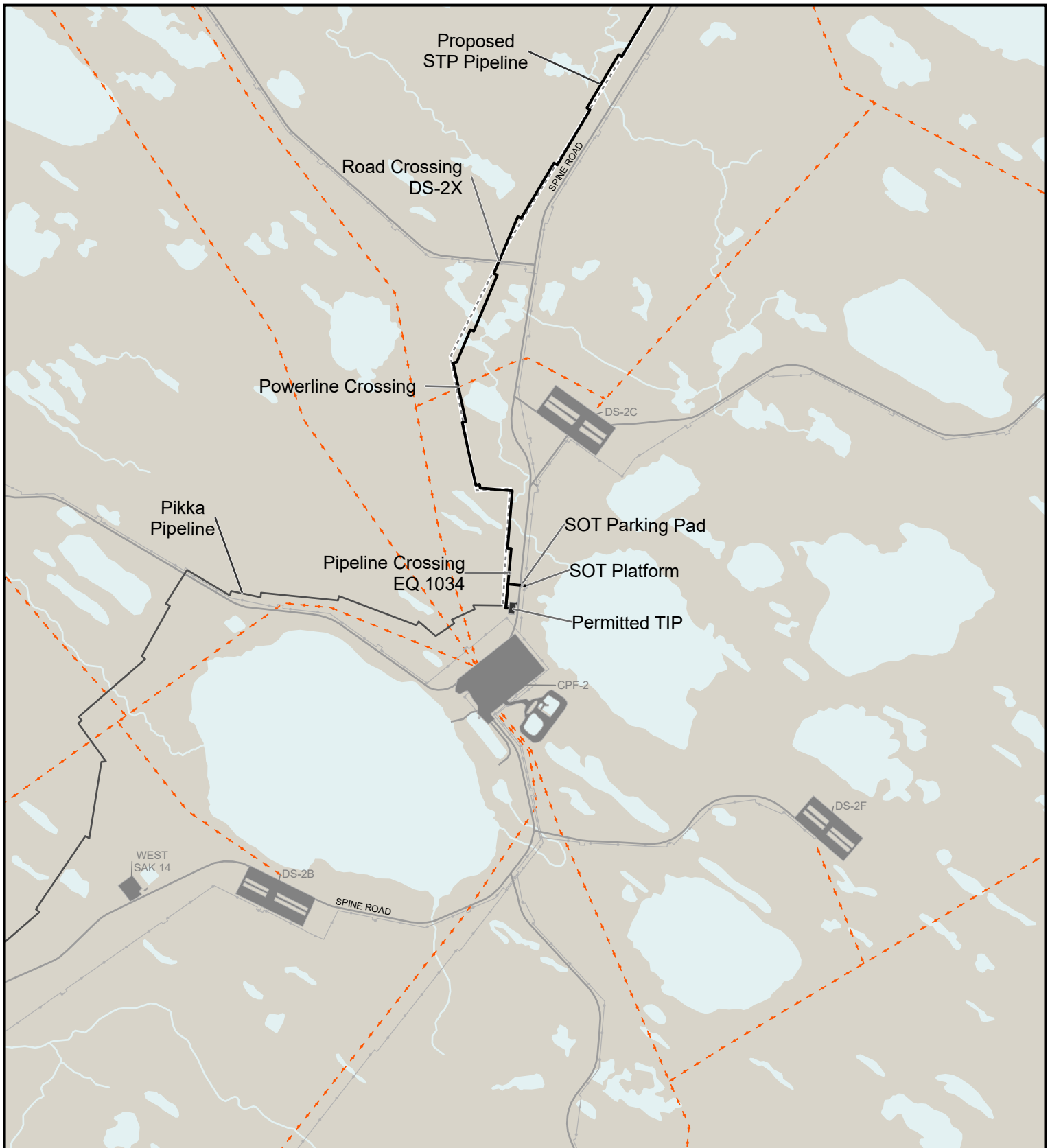
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WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 10 OF 21

DATE: November 2022

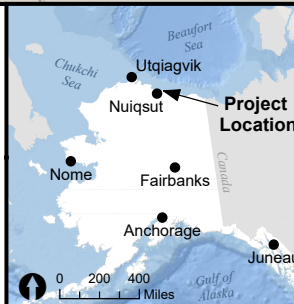


STP-TIP Detail Sheet 11

- Proposed STP Pipeline
- Permitted STP Pipeline
- Pikka Pipeline
- Existing Pipeline
- Existing Powerline
- Proposed Pad
- Existing Facility
- Waterbody
- Wetland



0 0.5 Miles



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

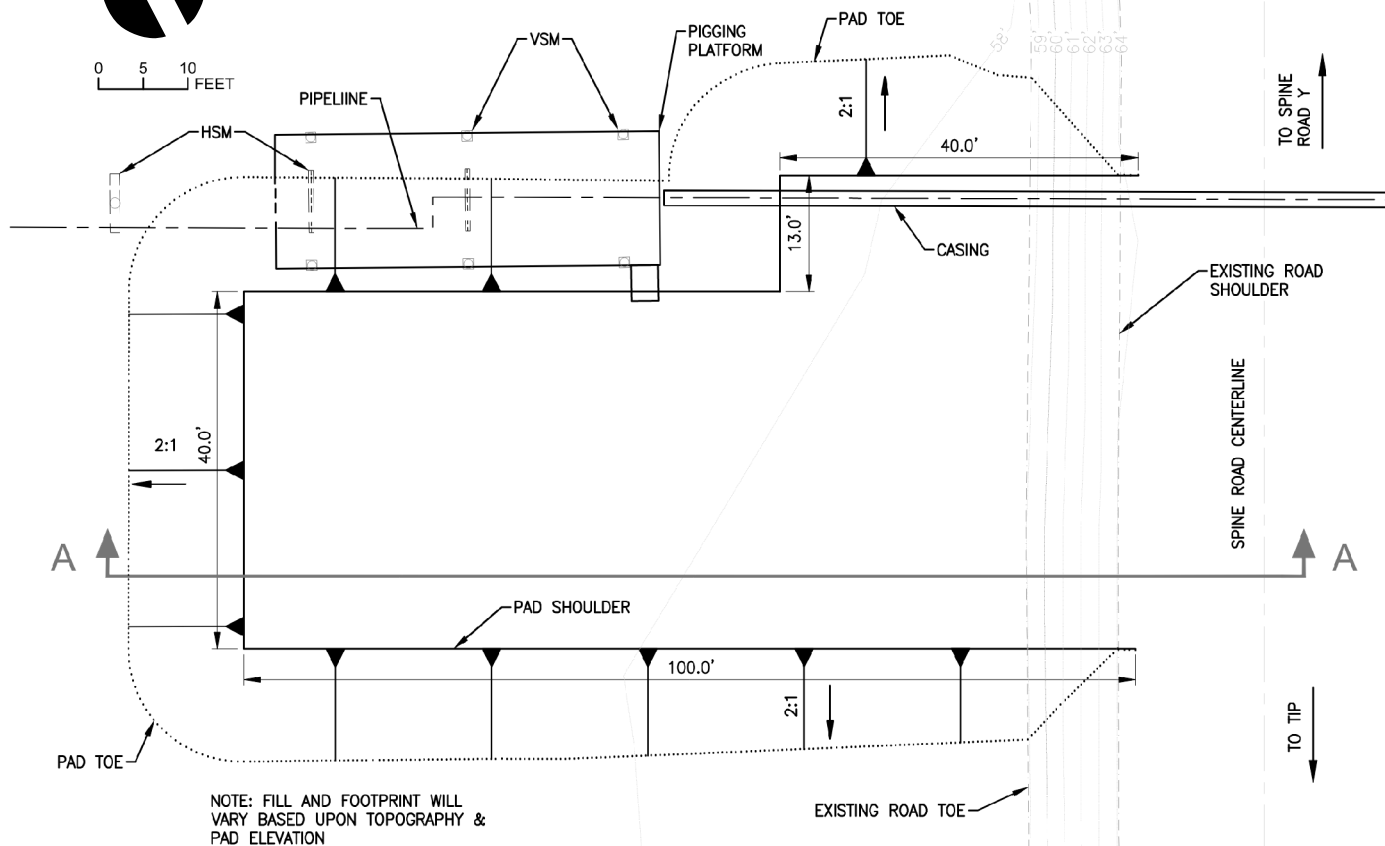
COUNTY: North Slope Borough
STATE: Alaska

SHEET: 11 OF 21

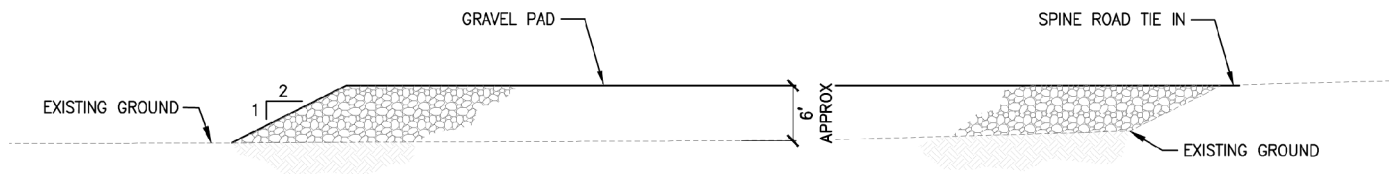
DATE: November 2022



0 5 10 FEET



PAD PLAN



A **PAD SECTION**
 SCALE: 1" = 20'
 1V:1H

**SRV Pigging Platform Pad
 Plan and Section**

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

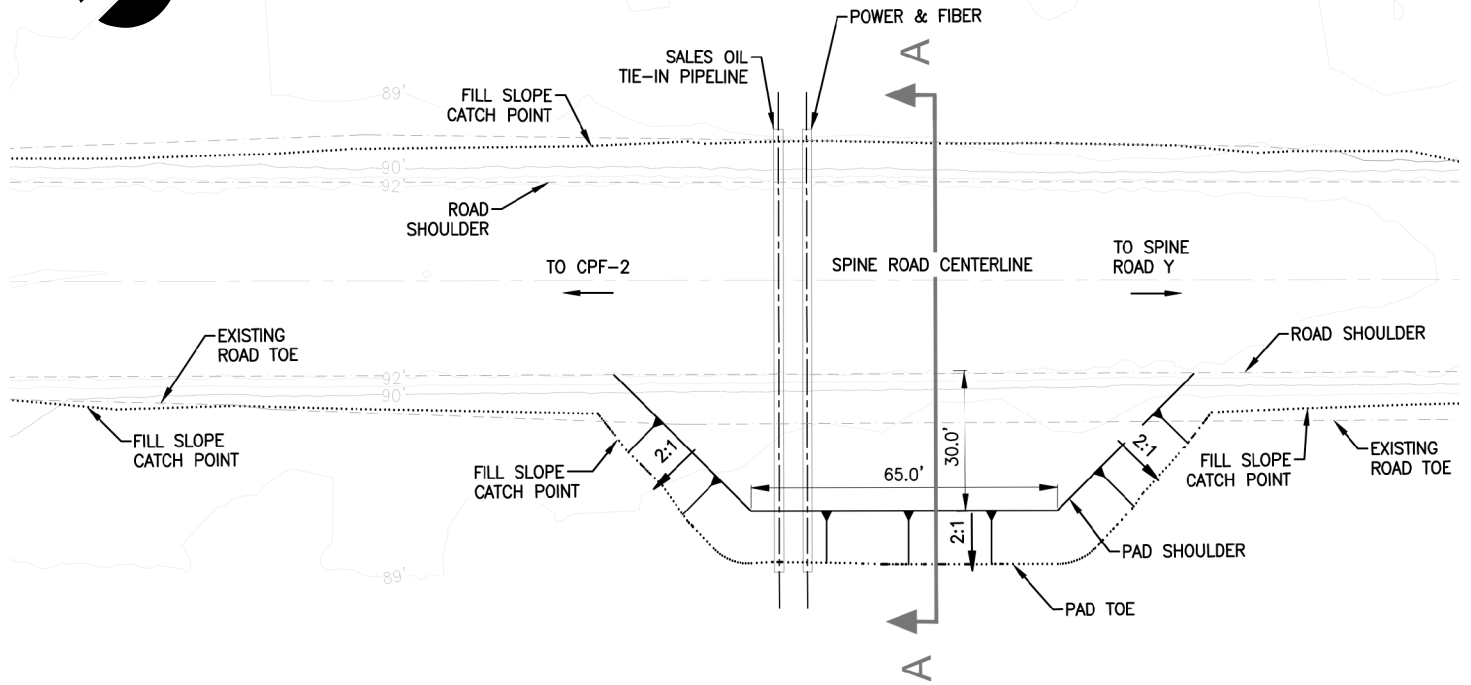
WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
 STATE: Alaska

SHEET: 12 OF 21

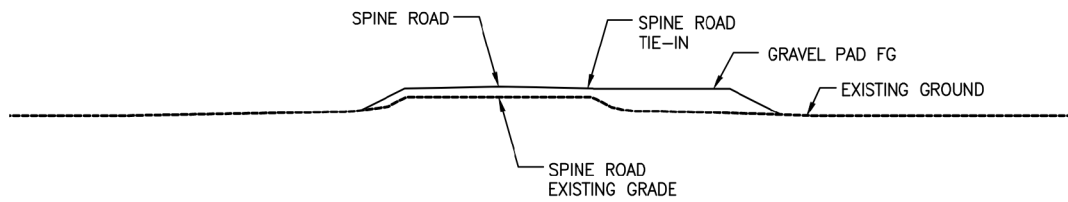
DATE: November 2022

0 10 20 FEET



SOT PARKING PAD PLAN

SCALE: 1" = 40'



SOT PARKING PAD SECTION

SCALE: 1" = 40'
1V:1H

SOT Parking Pad and Road Crossing Plan and Section

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 13 OF 21

DATE: November 2022

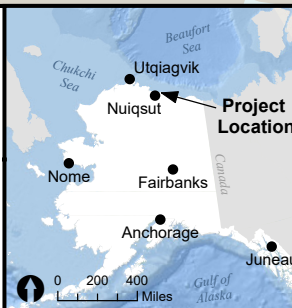


GSP Detail

- Proposed Pipeline
- Permitted STP Pipeline
- Existing Pipeline
- Existing Powerline
- Proposed Pad
- Existing Facility
- Waterbody
- Wetland



0 0.5 Miles



APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

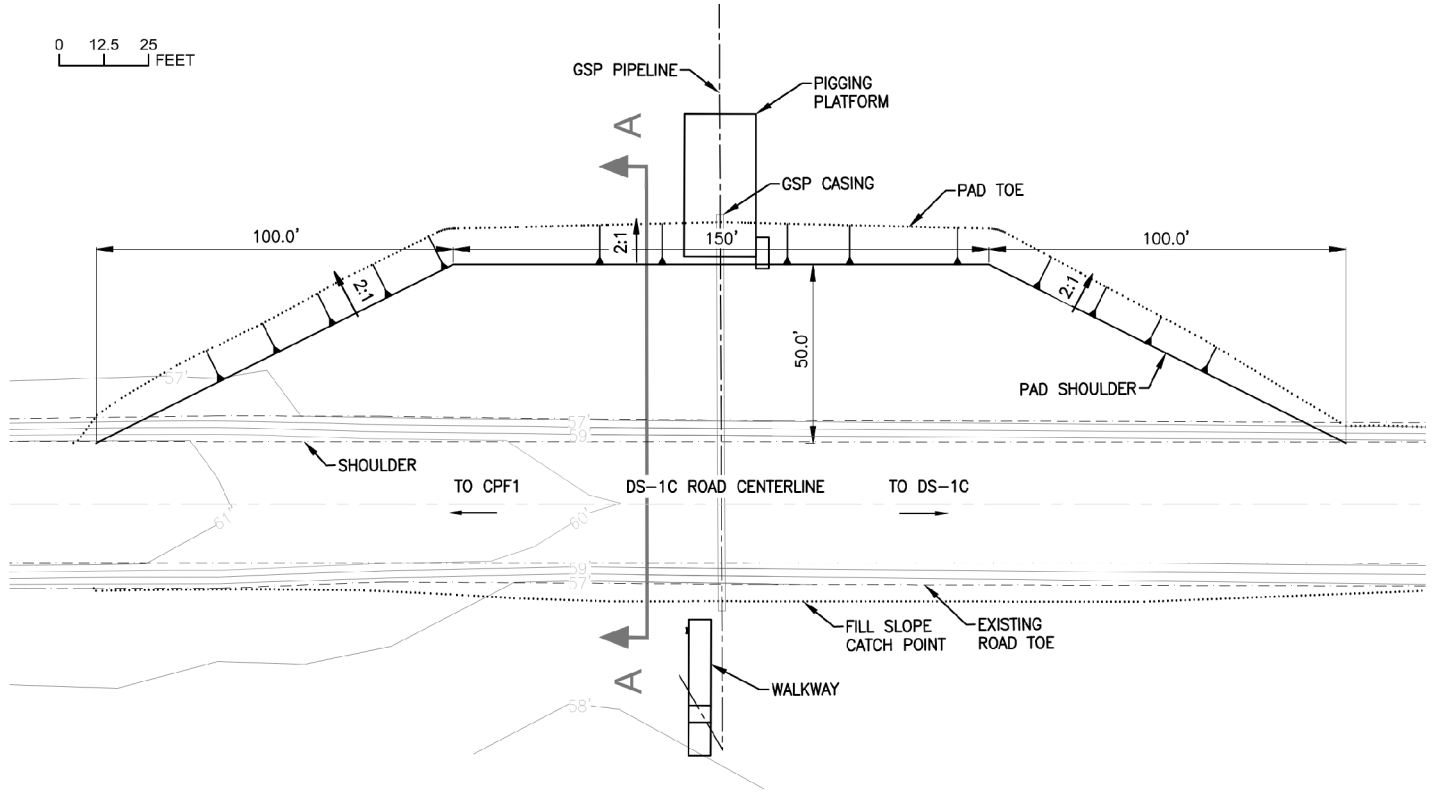
COUNTY: North Slope Borough
STATE: Alaska

SHEET: 14 OF 21

DATE: November 2022

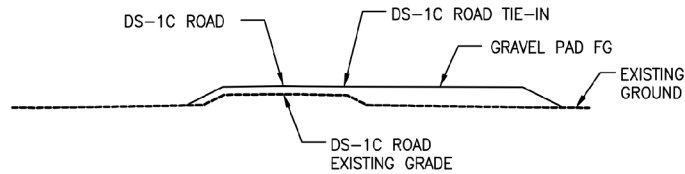


0 12.5 25 FEET



GSP PARKING PLAN

SCALE: 1" = 50'



GSP PARKING SECTION

SCALE: 1" = 50'
1V:1H

**GSP Parking Pad and Road Crossing
Plan and Section**

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

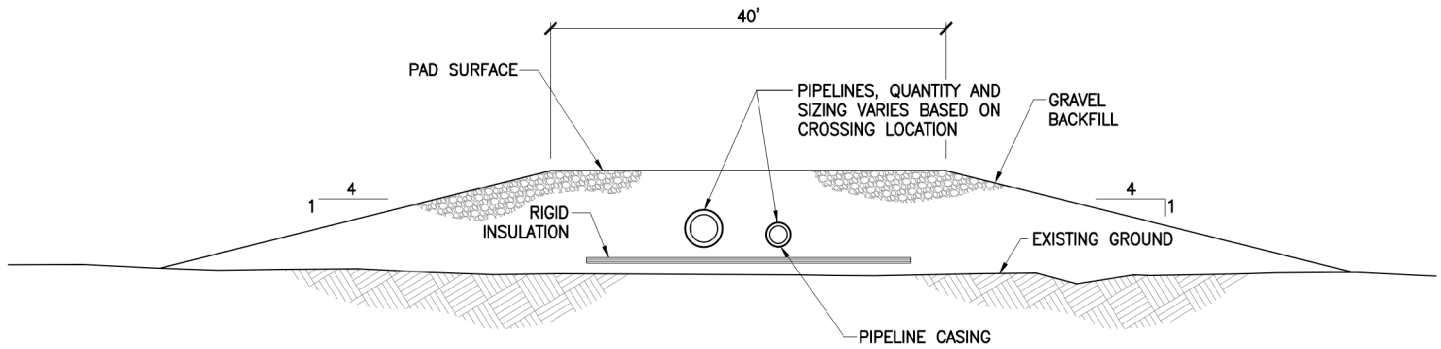
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WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

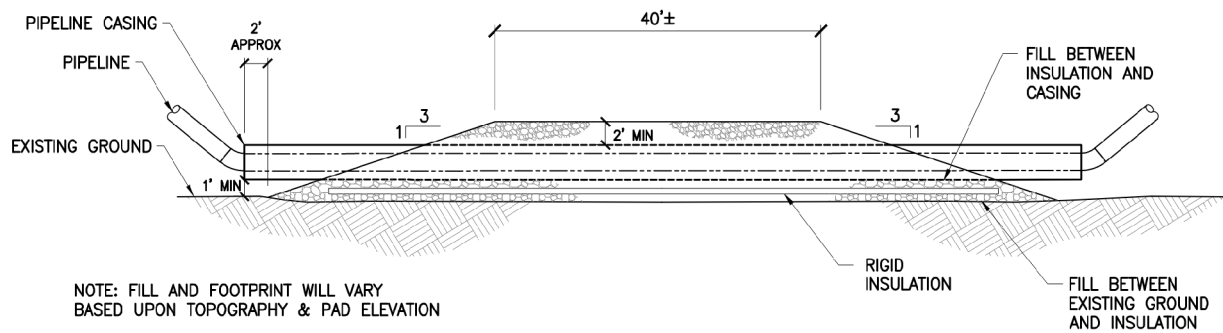
SHEET: 15 OF 21

DATE: November 2022



PIPELINE CROSSING PROFILE

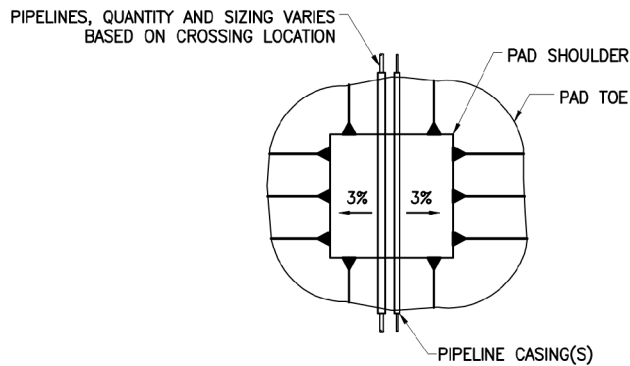
NTS



NOTE: FILL AND FOOTPRINT WILL VARY
BASED UPON TOPOGRAPHY & PAD ELEVATION

PIPELINE CROSSING SECTION

NTS



PIPELINE CROSSING PLAN

NTS

NOTE: APPLIES TO EQ 52, EQ 186, EQ 388, EQ 399,
EQ 526, EQ 737, EQ 1034, EQ 144, AND EQ 243

Typical Pipeline Crossing

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

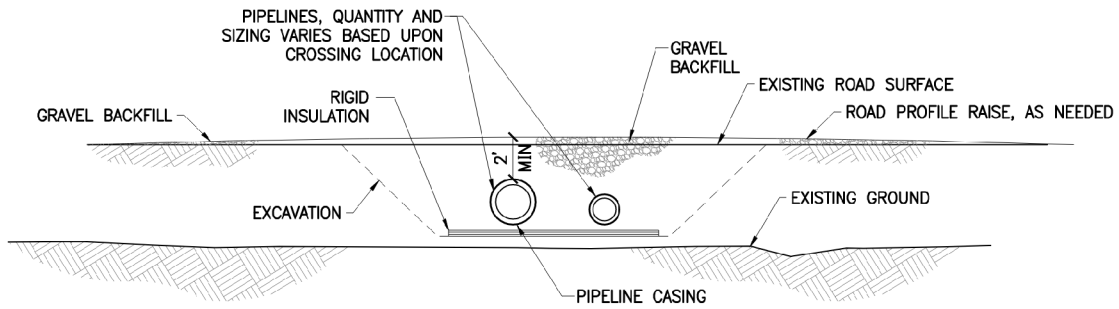
FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

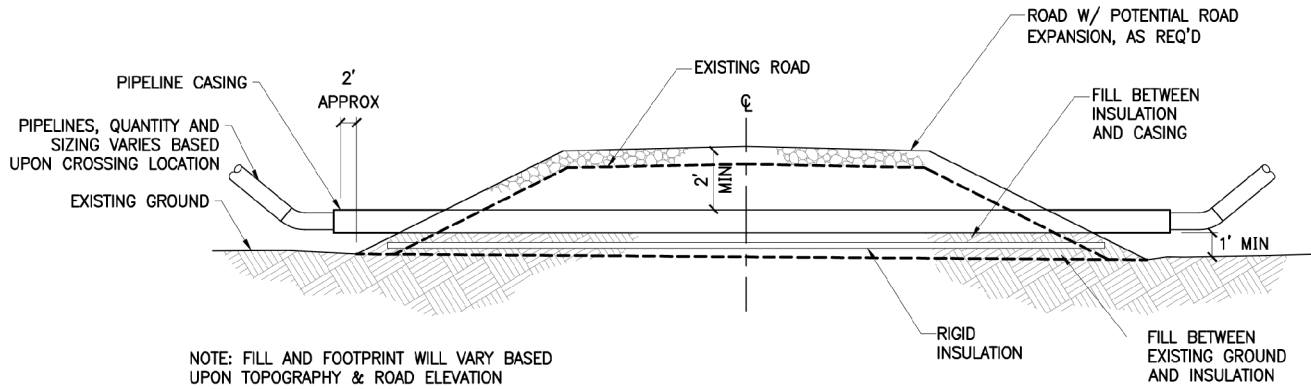
SHEET: 16 OF 21

DATE: November 2022



EXISTING ROAD PIPELINE CROSSING PROFILE

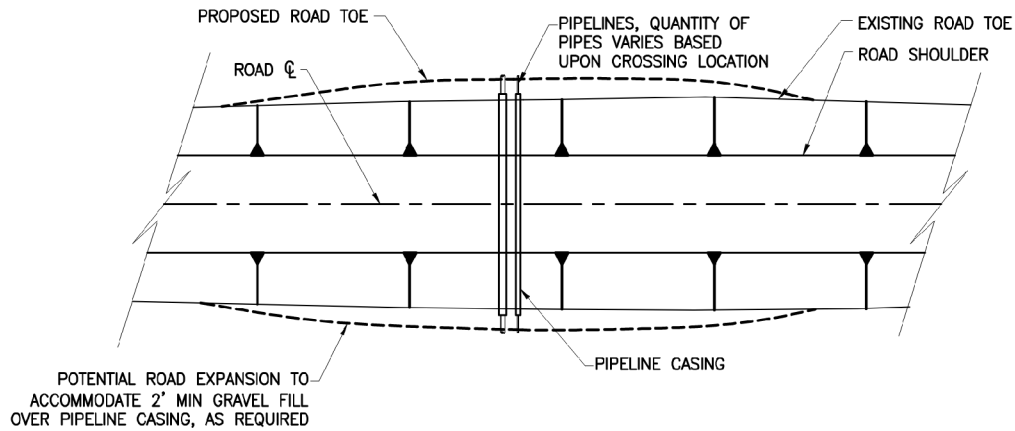
NTS



NOTE: FILL AND FOOTPRINT WILL VARY BASED UPON TOPOGRAPHY & ROAD ELEVATION

EXISTING ROAD PIPELINE CROSSING SECTION

NTS



EXISTING ROAD PIPELINE CROSSING PLAN

NTS

NOTE: APPLIES TO DS-3Q, DS-3N, OLIKTOK ROAD N, OLIKTOK ROAD S, DS-1Y, SRY PIGGING PLATFORM PAD, DS-2X, SOT PARKING PAD, SPINE ROAD, DS-1G, DS-1H, ACCESS ROAD AND GSP PARKING PAD

Existing Road Pipeline Crossing

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

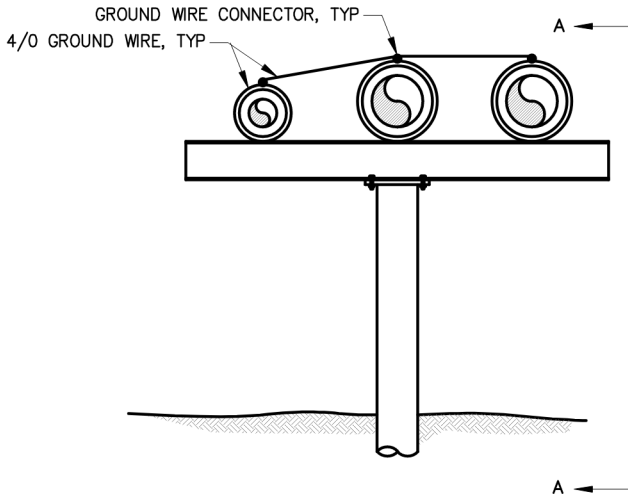
FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

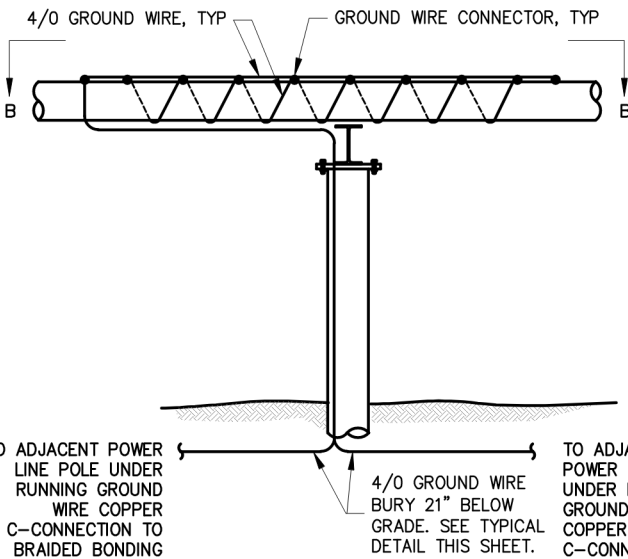
COUNTY: North Slope Borough
STATE: Alaska

SHEET: 17 OF 21

DATE: November 2022



PIPE GROUND ELEVATION
LONGITUDINAL VIEW

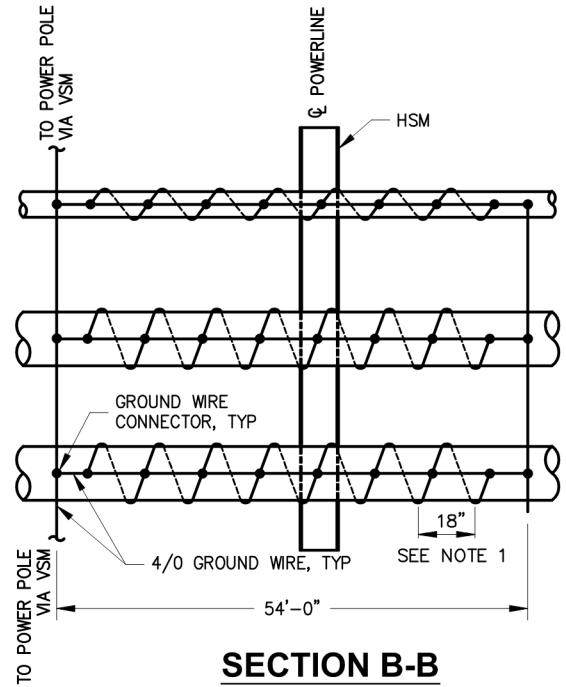


SECTION A-A
PERPENDICULAR VIEW

TO ADJACENT POWER LINE POLE UNDER RUNNING GROUND WIRE COPPER C-CONNECTION TO BRAIDED BONDING JUMPER.

4/0 GROUND WIRE BURY 21" BELOW GRADE. SEE TYPICAL DETAIL THIS SHEET.

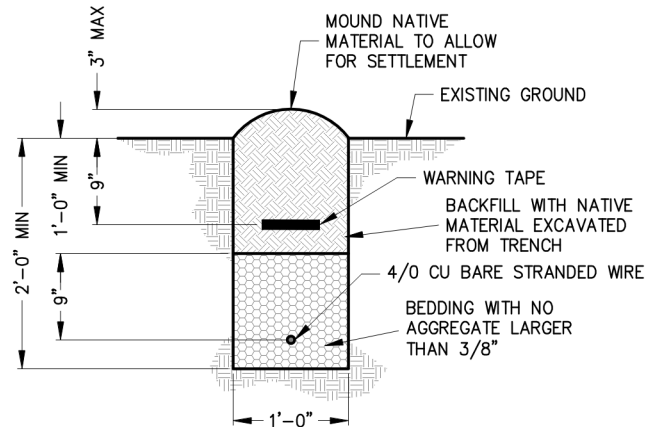
TO ADJACENT POWER LINE POLE UNDER RUNNING GROUND WIRE COPPER C-CONNECTION TO BRAIDED BONDING JUMPER.



SECTION B-B
PLAN VIEW

NOTES:

1. DISTANCE BETWEEN THE WRAPS SHOULD BE APPROXIMATELY 18".
2. HSM SHOWN FOR CLARITY. ACTUAL WIRE WRAP LOCATION TO BE CENTERED ON POWERLINE ALIGNMENT.



TYPICAL DIRECT BURIED TRENCH DETAIL

Bonding Cable Trench Detail

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

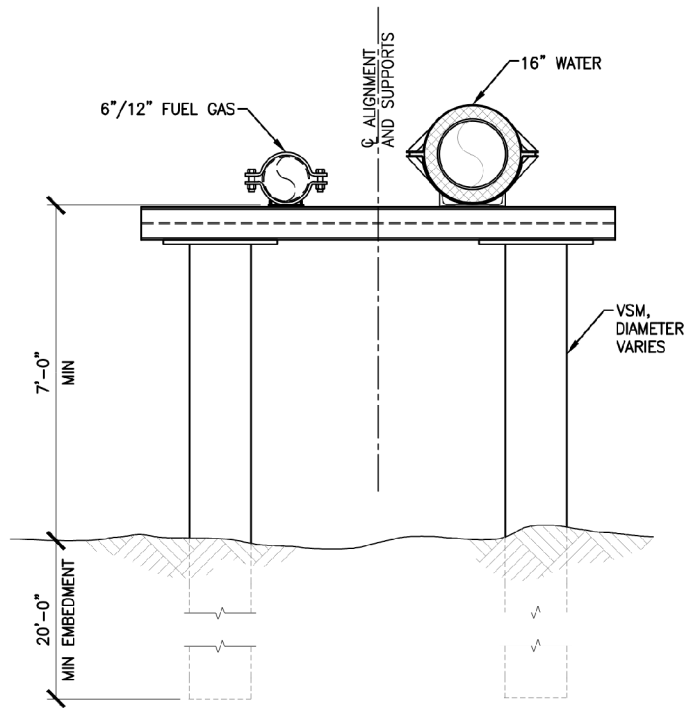
FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

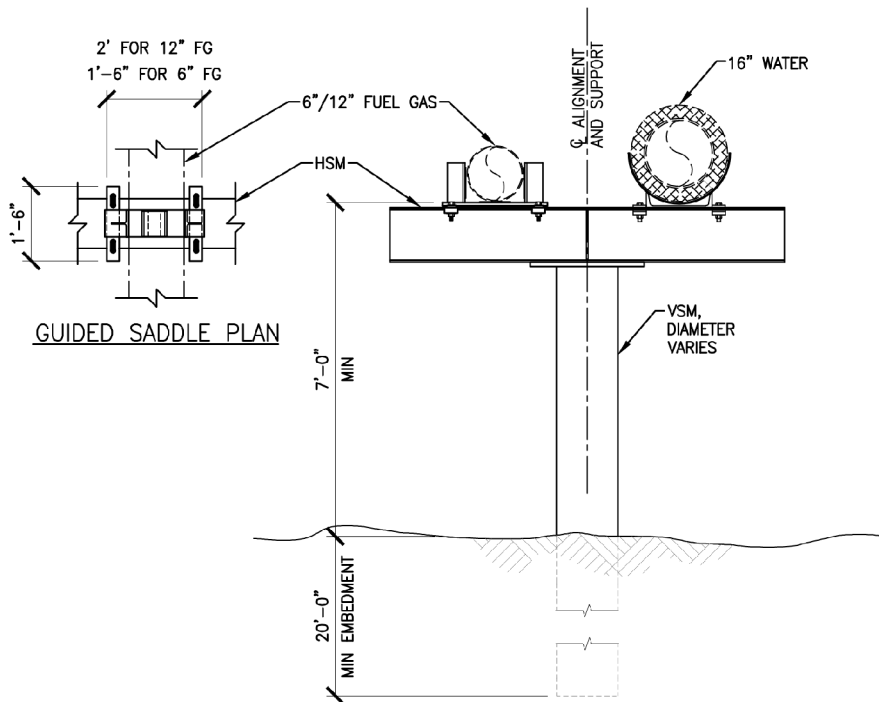
SHEET: 18 OF 21

DATE: November 2022



STP ANCHOR SUPPORT

NTS



STP GUIDE SUPPORT

NTS

STP Anchor Support and Guide Support Elevations

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

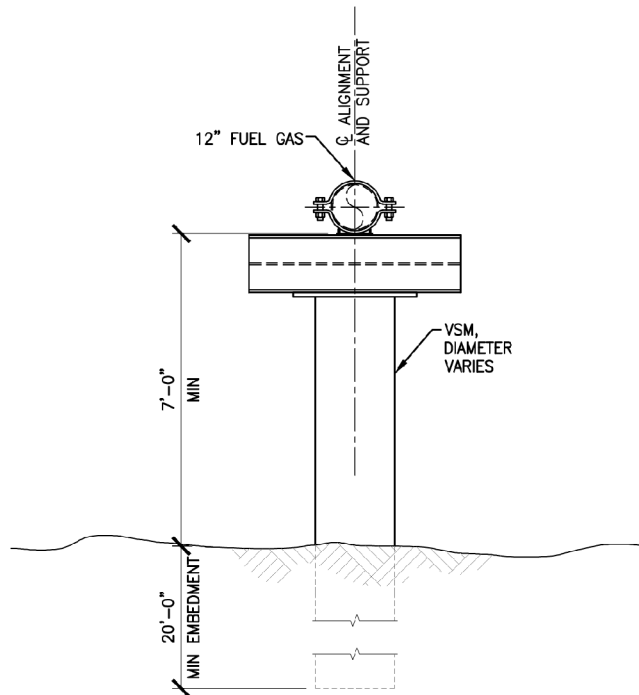
FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

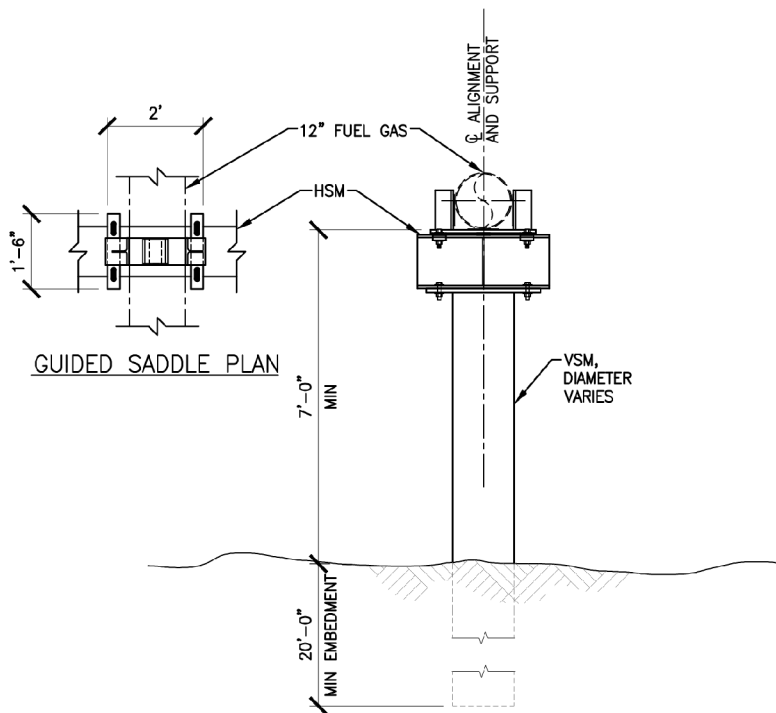
SHEET: 19 OF 21

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GSP ANCHOR SUPPORT

NTS



GSP GUIDE SUPPORT

NTS

GSP Anchor Support and
Guide Support Elevations

APPLICANT: Oil Search (Alaska), LLC, a
subsidiary of Santos Limited

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 20 OF 21

DATE: November 2022

FEATURE	GRAVEL FILL (CY)	FOOTPRINT (AC)
STP PIPELINE GRAVEL		
EQUIPMENT (EQ) CROSSINGS 1	7,900±	1.2±
EXISTING ROAD PIPELINE CROSSINGS 2	5,100±	0.2±
SRY PIGGING PLATFORM/SRY ROAD	1,600±	0.2±
GSP PIPELINE GRAVEL		
EQUIPMENT (EQ) CROSSINGS 3	3,000±	0.5±
EXISTING ROAD PIPELINE CROSSINGS 4	3,700±	0.2±
GSP PARKING PAD & PLATFORMS/DS-1C ROAD	4,400±	0.4±
SOT PARKING PAD & PLATFORMS	1,980±	0.2±
TOTAL	27,680±	2.9±

NOTES:

1. EQ CROSSINGS 52, 186, 388, 399, 526, 737, AND 1034 ARE INCLUDED IN THIS TOTAL.
2. EXISTING ROAD CROSSINGS DS-3Q, DS-3N, OLIK TOK ROAD N, OLIK TOK ROAD S, DS-1Y, AND DS-2X ARE INCLUDED IN THIS TOTAL.
3. EQ CROSSINGS 144 AND 243 ARE INCLUDED IN THIS TOTAL.
4. EXISTING ROAD CROSSINGS SPINE ROAD, DS-1G, DS-1H, AND ACCESS ROAD ARE INCLUDED IN THIS TOTAL.

FEATURE	VSM (TOTAL)	SINGLE HOLE AREA	TOTAL VSM AREA	TOTAL VSM AREA	TOTAL VSM SLURRY	TOTAL VSM
VSM AND SLURRY:	(EA)	30" OD (SF)	HOLE AREA (SF)	HOLE AREA (AC)	VOL (CY)	STEEL (LF)
STP MODIFICATIONS	30	4.9	8,300	0.2	1,500	660
GAS SPUR	460	4.9	2,260	0.1	1,840	10,100
TOTAL	490	-	10,560	0.3	3,340	10,760

NOTE: VSM AREA IS BASED ON THE LARGEST SIZE VSM FOR THE PROJECT. ACTUAL VSM SIZES WILL RANGE FROM 8 INCH OUTSIDE DIAMETER TO 24 INCH OUTSIDE DIAMETER.

FEATURE	WIDTH (FT)	LENGTH (FT)	FILL QUANTITY (CY)	FOOTPRINT (AC)
BONDING CABLE TRENCHING	1.00	1,950	170	0.1

SUMMARY TABLE		
COMPONENT	FILL TOTAL (CY)	FOOTPRINT TOTAL (AC)
STP PIPELINE GRAVEL	14,600±	1.6±
GSP PIPELINE GRAVEL	11,100±	1.1±
SOT PARKING PAD & PLATFORMS	1,980±	0.2±
BONDING CABLE TRENCHING TOTAL	170±	0.1±
VSM & SLURRY TOTAL	3,340±	0.3±
OVERALL TOTAL	31,190±	3.3±

Revised Project Acreage and Volume Sheet

APPLICANT: Oil Search (Alaska), LLC, a subsidiary of Santos Limited

FILE NO: POA-2015-00025

WATERWAY: Ugnuravik River

COUNTY: North Slope Borough
STATE: Alaska

SHEET: 21 OF 21

DATE: November 2022