

November 16, 2022

James Hyun Alaska Department of Natural Resources Division of Oil and Gas 550 W. 7th Avenue, Suite 1100 Anchorage, Alaska 99501-3563

Re: Easement Application AS 38.05.850 Proposed Gas Spur Pipeline

Dear Mr. Hyun,

Oil Search (Alaska), LLC (OSA), a subsidiary of Santos Limited, requests an Alaska Statute (AS) 38.05.850 Easement from the Alaska Department of Natural Resources for the proposed Gas Spur Pipeline. This pipeline segment would connect between the OSA Seawater Treatment Plant Pipeline near the Spine Road and Oliktok Road intersection and the Oliktok Natural Gas Pipeline. The components which will be located within the easement would include tie-in equipment, gravel infrastructure, gas pipeline supports, and a gas pipeline.

Enclosed please find the completed application package, which includes:

- Easement Application AS 38.05.850
- Figures
- Application Fee

We look forward to your action on this application. Should you have questions, please contact me at 907-903-1762 or <u>patrick.conway@santos.com</u>.

Sincerely,

Patrick Conway Senior Environmental & Permitting Manager

APPLICATION FOR EASEMENT ON STATE LAND AS 38.05.850



State of Alaska Department of Natural Resources, Division of Oil and Gas 550 W. 7th Ave, Suite 1100, Anchorage, AK 99501-3563 Phone: 907-269-8800 Fax: 907-269-8943 Permitting Email: <u>dog.permitting@alaska.gov</u>



Non-refundable application fee: \$1500 ADL# 421988 (to be filled in by state) SECTION I. APPLICANT INFORMATION Title: Senior Environmental & Permitting Manager **Applicant Name:** Patrick Conway Company: Oil Search (Alaska), LLC Mailing Address: PO Box 240927 City/State/Zip Code: Anchorage, Alaska 99524-0972 **Phone:** 907-903-1762 Email: patrick.conway@santos.com SECTION II. PROJECT LOCATION/LAND STATUS State of Alaska Surface Lands: Are supplemental pages for Land Status included in Appendix A? YES □ NO⊠ Meridian, Township, Range, and Section(s):

The Meridian, Township, Range, and Section(3). The Meridian, Township, Range, and Sections for the Gas Spur Pipeline (GSP) Project are listed in Table 1 below.

Table 1: Project Location				
Ownership	wnership Unit Name		MTRS	
State of Alaska			U011N010E03	
		25648	U011N010E04	
	Kana anda Diaran Unit	25647	U011N010E10	
	Kuparuk River Unit		U011N010E05	
			U011N010E06	
		25646	U011N009E01	

Is the project within or partially within an active Oil and Gas Unit? Division of Oil and Gas Units associated with the project are listed in Table 1.

Is the project within or partially within a valid Oil and Gas lease held by the applicant? If yes, list ADL(s): The project is not located within an Oil and Gas lease held by OSA. The Oil and Gas ADL numbers are listed in Table 1.

Is there an Oil and Gas Mineral Estate Lease? If yes, list ADL(s) The Oil and Gas Mineral Estate Leases are listed in Table 1.

Other Considerations (Existing easement ADL if applying for amendment or renewal): Enter other considerations Oil Search (Alaska), LLC (OSA), a subsidiary of Santos Limited, applied for a Unit Plan of Operations that was authorized November 26, 2019, under LONS 19-003 for project components located within the Pikka Unit. Additional State of Alaska easements and rights-of-way located within the vicinity of the proposed GSP are the Pikka Sales Oil Pipeline (ADL 421843), the Oliktok Transportation Company (OTC) Natural Gas Pipeline (ADL 411731), the ENI

Nikaitchuq Sales Oil Pipeline (ADL 417493), the Kuparuk Transportation Company Sales Oil Pipeline (ADL 402294), the Oliktok Dock Pipeline (ADL 417493), and the OSA Seawater Treatment Plant (STP) Pipeline (ADL 421526). This Gas Spur Pipeline (GSP) application is submitted for authorization of a State of Alaska AS 38.05.850 easement within which will be placed the 12-inch gas pipeline, support rack, and related infrastructure. The GSP will allow gas flow between the OTC Natural Gas Pipeline and the OSA STP Pipeline (Figure 1).

Letter of non-objection or third-party commercial agreement obtained from other interested parties?

Yes \Box No \boxtimes If no, please explain.

OSA has engaged in discussions with interested parties throughout the GSP design process and will continue to engage in good faith discussions regarding concurrent use. During construction, OSA staff will coordinate with interested parties to avoid unreasonable interference.

SECTION III. PROJECT INFORMATION

1. Project Name: OSA Gas Spur Pipeline

2. Construction Start/End Date: March 1, 2023 (or upon approval) to June 1, 2026

Easement Duration: 35 years

3. Project Activities:

A. Project Description:

OSA is advancing development of the Pikka Unit through the Pikka Development Project (Project) on Alaska's North Slope. The production of oil from these reservoirs requires fuel gas to optimize production efficiency. OSA proposes to construct a pipeline gathering line that connects existing pipeline infrastructure to the proposed OSA gas delivery system for delivery to the Seawater Treatment Plant (STP) Facility and the Project. This application is for a non-exclusive easement authorization for a 4.9-mile long 12-inch diameter pipeline that begins east of the Kuparuk Central Processing Facility 1 (CPF-1) and ends at the OSA STP Pipelines (Figure 1).

The purpose of the gas spur pipeline (GSP) is to provide fuel gas for Pikka Unit operations. Figures 2-8 depict the pipeline route, components, and construction easement. The GSP requires a catwalk, parking pad, and platform near the OTC tie-in (Figure 2). There are a total of five pipeline road crossings and two equipment crossings along the proposed easement (Figures 2-8). The two equipment crossings allow access across the GSP for maintenance of the pipeline and access for adjacent operators. OSA is in the process of finalizing the GSP design to determine if the GSP crosses above or below existing pipelines. The GSP easement encompasses a pigging pad and platform at the Spine Road and Oliktok Road intersection. The platform will be used to launch in-line-inspection tools between the platform and the OSA STP Facility. The GSP easement ties into the OSA STP Pipeline rack and will supply gas via a 6-inch gathering pipeline to the OSA STP Facility and a 12-inch pipeline will supply the Project.

Located within the easement area will be a:

- 4.9 mile long 12-inch diameter natural gas gathering pipeline and associated support rack;
- a parking pad, platform, and catwalk at the OTC tie-in;
- an approximately 140-foot long segment of 12-inch and 6-inch gas pipeline between the pigging pad and STP pipe rack that supplies the Pikka Unit (12-inch) and the OSA STP Facility (6-inch);
- gravel equipment crossings; and
- existing gravel road crossings.

Fiber optic cables and connection for power may be installed by a third-party contractor, as needed.

B. Methods of Construction:

The proposed easement will typically be centered on the HSM midpoint along the pipeline alignment route. OSA requests a variable width construction easement and, on average, will be 300-feet wide (approximately 150-feet from centerline) with varying width around pipelines and gravel infrastructure (Figures 2-8). The operations easement will also be variable width, approximately 100-feet wide (approximately 50-feet on each side of the proposed alignment centerline). Ice roads and pads will be needed during construction of the pipeline. The ice roads will allow access from existing gravel infrastructure to the pipeline easement for construction.

The ice roads will be constructed to support loads and protect the vegetation and organic soil beneath. Ice pads will also be built along the pipeline route to support pipeline construction. Ice pads will be used for staging and storage of pipe and equipment.

VSMs will be spaced approximately 55 to 65 feet apart. Pipeline construction activities will occur via ice road and existing gravel roads for two winter and summer construction seasons scheduled for 2023-2025. VSM locations will be surveyed and drilled in the winter, followed by VSM installation into the pre-drilled holes to a minimum depth of 20-feet below surface and backfilled using a sand slurry mixture. Approximately 3-6 cubicyards of sand slurry will be used per VSM. Drilling will occur from an ice road and will generate cuttings that will be sidecast onto the ice around each VSM. The cuttings will then be removed to an upland or previously disturbed area. In wet areas, such as lakes and ponds, OSA may set a larger casing to prevent the hole from filling with water during VSM placement. The VSM will then be placed inside the casing and set in place using a sand slurry. Pipelines will be placed once the pipe rack is constructed, with testing and startup activities occurring upon completion of the pipeline.

A combination of existing gravel pads, ice pads, and ice roads will be used for construction and installation of the pipelines located within the requested easement.

C. Easement Parameters:

OSA requests a variable width construction easement (on average 300-foot wide, approximately 150-feet from centerline) and a variable width operational easement (on average 100-foot wide, approximately 50-feet from centerline). The attached figures show the proposed construction easement.

Construction Easement (including buffers)			Operation Easement (including buffers)				
Projects	Length (ft)	Width (ft)	Size (acre)	Projects	Length (ft)	Width (ft)	Size (acre)
Gravel Pad			1.2	Gravel Pad			1.2
Gravel Road				Gravel Road			
Pipeline	26,136	300	173.8	Pipeline	26,136	100	58.8
Wellbore				Wellbore			
Other				Other			
Total	26,136	300	175	Total	26,136	100	60

D. Waste Management:

The pipeline construction will be incorporated into the OSA Waste Management Plan that is being prepared to address the types and quantities, regulatory controls, and management options for solid and liquid wastes. OSA will also use other resources, such as the Alaska Waste Disposal and Reuse Guide (commonly known as the Red Book) and the North Slope Environmental Field Handbook, to guide waste management decisions. Key elements of the waste management approach include:

- Compliance with federal, state, and North Slope Borough (NSB) waste management regulations;
- Waste minimization through careful project planning and beneficial reclamation, reuse, and recycling when practicable;
- Subsurface disposal of authorized waste streams;
- Planning for changing types and volumes of wastes and seasonal transportation restrictions, particularly during construction;
- Evaluating opportunities for product substitution to reduce hazardous waste; and
- Staff training on waste management and spill prevention procedures.

Solid Waste

Non-hazardous solid waste will be trucked off-site and disposed of at the NSB landfill. Any waste receptacles stored outside will be managed to avoid potential wildlife interactions, using methods such as waste segregation and the covering of dumpsters, which will be outlined in the OSA Wildlife Interaction Plan.

	Hazardous and Universal Waste Hazardous and universal waste, as defined by the Resource Conservation and Recovery Act, would be managed on-site in appropriate locations and containers prior to transport off-site for disposal or recycling. All hazardous waste generated will be handled by qualified persons and disposed of in accordance with regulations.
E.	Staging and Storage Areas: Equipment and materials will be stored on ice pads and on existing gravel pads on the North Slope. Gravel pads used during construction could include the NPF, NOP, or other existing or proposed gravel pads in the vicinity of the GSP.
F.	Airstrips and Landing Zones: An airstrip will not be constructed as part of the project. OSA will use existing North Slope airstrips and landing zones as needed for construction and operation.
G.	Historical Properties and Cultural Resources: A cultural resource survey was conducted in the project area in 2022. The survey and proposed project locations were coordinated with the Alaska Department of Natural Resources, Office of History and Archaeology (OHA) and the North Slope Borough. During the cultural resources survey, the investigation did not identify any historic sites located within the project footprint.
H.	Anadromous Fish Streams and Other Streams: The pipeline will cross the Ugnuravik (aka Ugnu) River. At this crossing, VSMs placed within known floodplains will be designed to withstand the effects of scour, bank migration, and forces from ice floe impacts. The pipeline crossing at the Ugnu River was designed to span the active channel, to the best degree attainable given design and engineering constraints.
I.	Fuel and Hazardous Substances: The Project will require the transport of diesel and gasoline to the Project area to support construction. During construction, dedicated temporary storage areas for diesel and gasoline will be selected and placed on gravel pads and ice pads. Permanent fuel storage at the Nanushuk Operations Pad may also be used to support construction. All fuels and chemicals will be stored in appropriate primary containment. Secondary containment areas will be designed in compliance with all applicable permits and regulations.
J.	Air Quality Emissions from construction activities will originate primarily from on-road and non-road heavy equipment used for VSM and pipeline installation. The potential emissions from the construction equipment will be small and the potential effects of construction activities to regional air quality will be minor. Because emissions from construction activities will not occur for an extended duration, the effects to regional air quality will also be short- lived in the environment. Once the pipelines are operational, no air quality impacts are anticipated, other than minor, periodic short-term emissions from equipment used to monitor and maintain the pipelines and associated infrastructure.
K.	Water Quality Freshwater streams, lakes, and ponds will be crossed by the GSP. Placing pipeline VSMs in streams can increase the potential for erosion at or near the structure. To avoid artificially caused increases in erosion and sedimentation, OSA will minimize VSM placements within the active flood channel to the extent practicable. This effort will minimize ponding and maintain natural drainage patterns.
	Seasonal ice roads will be used to facilitate pipeline construction. Freshwater will be withdrawn from local permitted lakes in the area to construct the ice roads. Water withdrawal volumes are strictly managed by ADNR (under the temporary water use authorization program) and ADF&G (under the fish habitat permit program) to ensure water quality is maintained at all sources. Utilizing the established withdrawal limits ensures that water quality impacts are negligible. Utilizing the established withdrawal limits also ensures that lakes can fully recharge each spring during breakup.

The proposed pipeline route will cross multiple lakes and ponds, requiring ice road construction across these waterbodies in winter. Impacts to water quality from ice road construction are expected to be minimal and temporary. Any ice roads crossing anadromous fish stream will be slotted, breached, or weakened prior to breakup per conditions of the required Fish Habitat Permit from ADF&G.

L. Utilities:

The proposed GSP will not utilize existing utilities for construction or operation.

M. Material Sites:

Gravel will be obtained from one or more of the existing mine sites located on the North Slope in the vicinity of the project area. Likely sources of clean material include Mine Site F, Mine Site E, Mine Site C and/or the ASRC Mine Site.

N. Water Supplies:

During pipeline construction and operation, non-potable fresh water from local permitted lakes will be used for ice road and ice pad construction, road maintenance, and hydrostatic testing. Potable water for camp use will be hauled to the camps from existing water treatment facilities.

O. Roads:

Access to the easement area during construction operations will be over existing gravel roads and temporary ice roads built for the construction work. During operation, access will be over existing gravel roads and pipeline crossings that bisect and parallel the proposed easement. Temporary ice roads may also be used during operations, as necessary.

4. Associated Structures:

The easement will be located between the Oliktok Gas Pipeline and the yet-to-be-constructed STP Pipelines near the intersection of the Spine Road and Oliktok Road.

5. Is this an existing use?: Yes \Box No \boxtimes If Yes, provide documentation verifying existing use, such as easement atlas, affidavits attesting to use and existence, pictures, etc.

The pipelines associated with the proposed easement will be new construction.

6. Are you applying to be granted a Private Easement? Yes ⊠ No □

7. Other permits or authorizations applied in conjunction with this proposed project:

OSA has provided a list of applications and authorizations for the Pikka Development Project in Table 2, some of which will be modified or applied for as it relates to the GSP.

	Table 2	: Permits, Authorizations, and Plans		
Agency	Permit/Authorization/ Plan	Scope and Jurisdiction	Application Status	Project Phase
U.S. Army Corps of Engineers (USACE)	Modification to Department of the Army Clean Water Act (CWA) Section 404 Individual Permit POA-2015-00025.	Section 404: discharge of fill into waters of the U.S., including wetlands.	Pending	Construction
U.S. Fish and Wildlife Service (USFWS)	Marine Mammal Protection Act (MMPA) Letter of Authorization (LOA)	For activities occurring within polar bear or walrus habitat	Seasonal, Complete for 2022	Construction and Operation
ADEC Division of Water (DOW)	North Slope Oil and Gas General Permit, AKG-33-2000	CWA Section 402 Alaska Pollutant Discharge Elimination System (APDES) general permit for specific discharges	Complete	Construction and Operation
ADEC DOW	CWA Section 401 Water Quality Certification	Water quality concurrence/waiver needed for USACE Section 404 permit	Complete	Construction
Alaska Department of Fish and Game (ADF&G) Division of Habitat	Fish Habitat Permit	For activities that may affect fish habitat or passage (i.e., construction of culverts or withdrawal of water from fish-bearing waterbodies)	Complete	Construction
Alaska Department of Natural Resources (ADNR)	Temporary Land Use Permit	Temporary use of state lands (i.e., for ice infrastructure, tundra travel)	Complete	Construction and Operation
ADNR DMLW	Temporary Water Use Authorization	Approval of temporary water uses, including ice infrastructure needs	In Progress	Construction and Operation
ADNR DOG	AS 38.05.850 Easement	For project components located on State lands outside of the state oil and gas lease (i.e., Pikka pipelines, STP Pipelines, and GSP)	In Progress	Construction and Operation
NSB Department of Iñupiat History Language and Culture (IHLC)	Certificate of Traditional Land Use Inventory (TLUI) Clearance	Confirmation that project area does not have buffer zones for identified TLUI sites/establishments	In Progress	Construction
NSB Department of Planning and Community Services	Administrative Approval or Development Permit	Authorization for projects located within the North Slope Borough	TBD	Construction
ConocoPhillips Alaska, Inc.	Notice of Operations	Notice of activities from oil and gas leaseholder of land to be crossed for Project activities	TBD	Construction and Operation

8. Generally outline your plans for rehabilitating the affected project area after completion of operations. Any dismantlement, removal and rehabilitation activities will be conducted to a condition acceptable to the Commissioner of ADNR, acting reasonably, pursuant to the terms of the leases.

9. Operating procedures designed to mitigate, minimize, or avoid adverse effects

Describe operating procedures designed to prevent or minimize adverse effects on other natural resources and other uses of the project area and adjacent areas, including fish and wildlife habitats, historic and archaeological sites, and public use areas. Any training related to minimizing adverse effects. i.e. cultural awareness, wildlife awareness etc. should be included. Describe project specific procedures.

The following procedures are designed to minimize adverse effects:

- 1. Ice roads will be used to support pipeline installation.
- 2. Water pumps to construct ice roads will be screened to prevent fish entrapment (when used in fish-bearing lakes).
- 3. Spill prevention measures and fuel storage will be in accordance with OSA's Alaska Department of Environmental Conservation-approved Oil Discharge Prevention and Contingency Plan (C-Plan); requisite Spill Prevention, Control, and Countermeasure (SPCC) Plan(s); and other pertinent regulatory requirements.
- 4. Automatic shut-off valves will be installed should the gas pipeline depressurize.
- 5. Waste will be handled, transported, and disposed in accordance with the OSA Waste Management Plan. Waste will also be managed in accordance with the North Slope Environmental Field Handbook and the Red Book.
- 6. Pipeline VSM installation will only occur in winter, which minimizes tundra impacts associated with drilling. Sidecast gravels will be removed when VSM installation is complete.
- 7. The bottom of the pipelines will be a minimum of 7 feet above tundra surface except where pipelines intersect roads or pads to minimize impacts to caribou and other terrestrial wildlife.
- 8. Pipelines will incorporate access points to provide access to lakes and adjacent infrastructure.
- 9. Trained North Slope employees and contractors who are familiar with North Slope oilfields will be employed, providing personnel who are familiar with industry requirements regarding environmental and regulatory compliance standards. Personnel will be trained on Pikka operational plans, including oil handler training, waste management, snow removal, spill prevention, and wildlife interaction, which will minimize the potential for impacts during daily operations.

SECTION IV. PERFORMANCE GUARANTY					
Bonded Company: Oil Search (Alaska), LLC					
Type: DR&R Financial Assurance Agreement	Bond Number: Oil Search Financial Assurance Agreement, effective August 15, 2022	Amount: N/A			
Bonding Company: N/A					
Mailing Address: N/A					
Phone: N/A	Fax: N/A	Email: N/A			
SECTION V. INSURANCE					
Comprehensive General Liability Insurance:					
Amount of Insurance: \$2,000,000 per each occurrence and \$4,000,000 general aggregate					
Insurer Name: March & McLennan Agency LLC					
Mailing Address: 1031 W. 4th Avenue, Suite 400, Anchorage, AK 99501					
Phone: 907-276-5617	Fax: N/A	Email: N/A			

If this authorization is granted, I agree to construct and maintain the improvements authorized in a workmanlike manner, and to keep the area in a neat and sanitary condition; to comply with all the laws, rules, and regulations pertaining thereto; and provided further that upon termination of the easement for which application is being made, I agree to remove or

relocate the improvements and restore the area without the cost to the state and to the satisfaction of the Director of the Division of Oil and gas.



<u>11/16/2022</u> Date

Applicant's signature

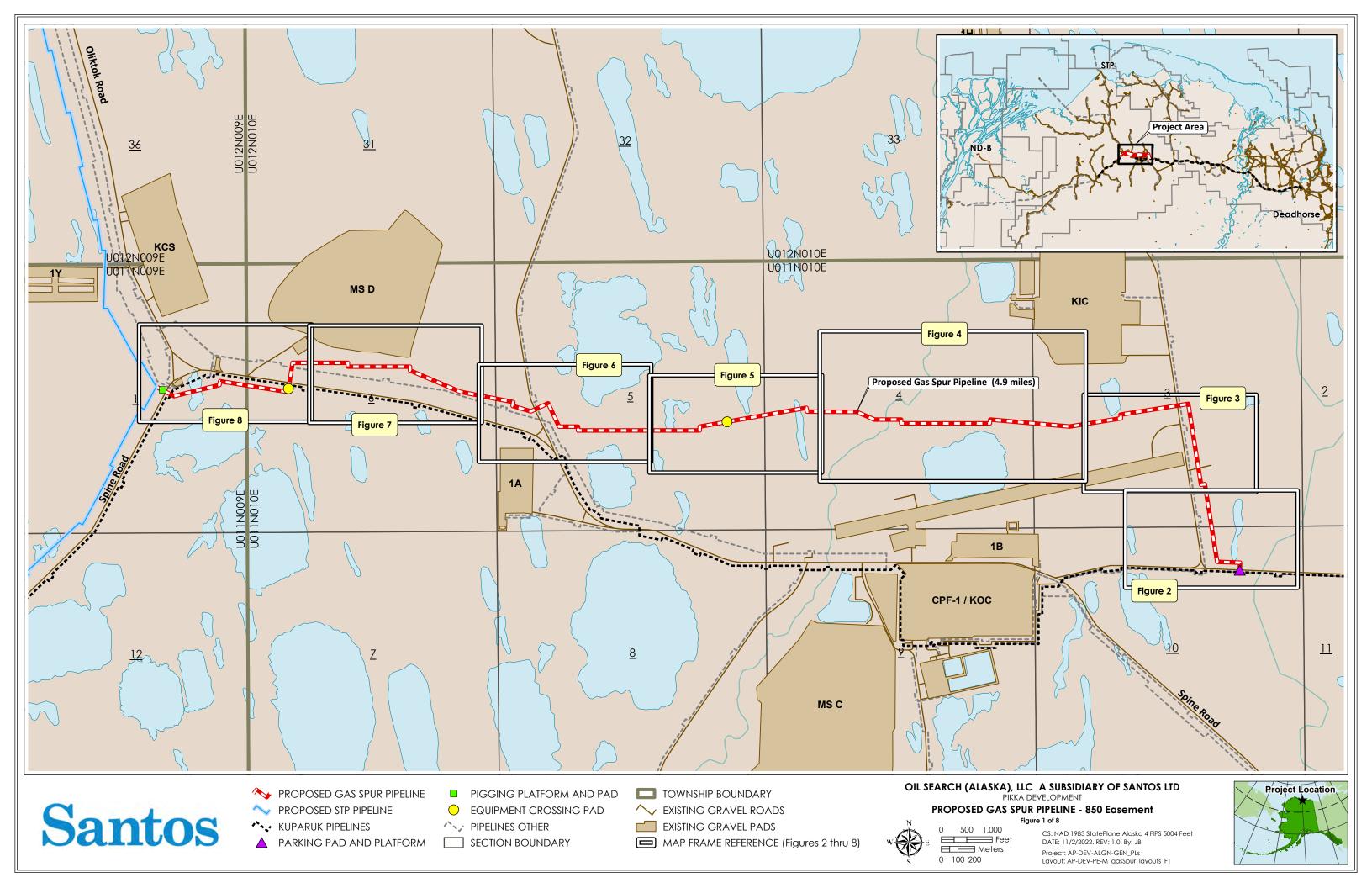
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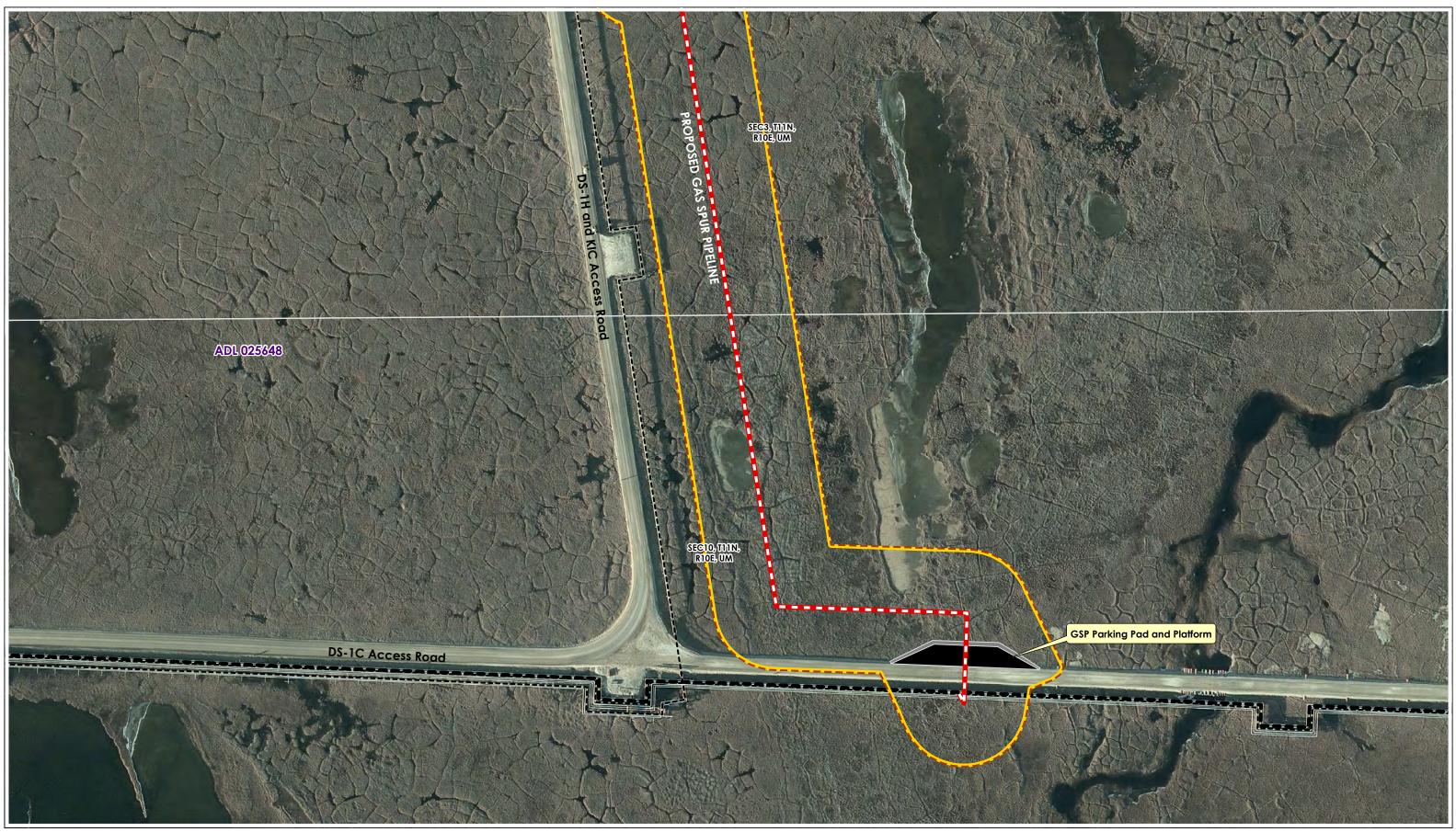
Maps

Attach a USGS map (scale of 1:63,360) or a state status plat showing the location of the proposed easement. Please see the easement guidance document for further map requirements.

The final granting of easement will be contingent upon our receipt of as-built depicting the post construction location of the improvements. If your application is approved, instructions for the completion of the as-built will be provided by the Survey Section in the Division of Mining, Land, and Water.

AS 38.05.035 (a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(9) and confidentiality is requested). Public information is open to inspection by you or any member of the public. A person who is subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.







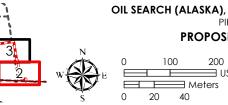
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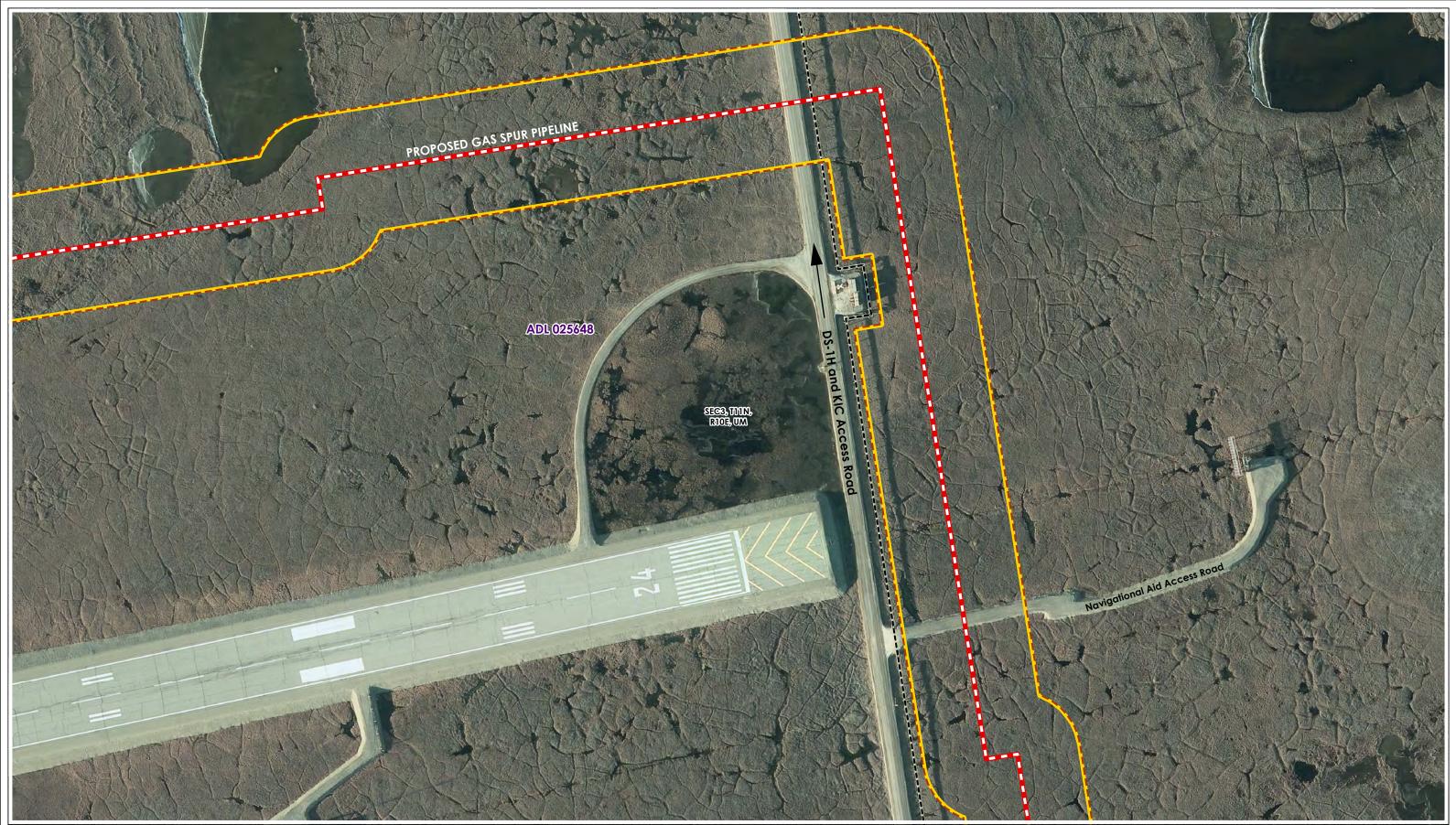


OIL SEARCH (ALASKA), LLC A SUBSIDIARY OF SANTOS LIMITED PIKKA DEVELOPMENT PROPOSED GAS SPUR PIPELINE

Figure 2 of 8

US Feet

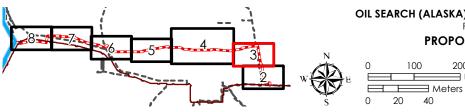




Santos PROPOSED GAS SPUR PIPELINE PROPOSED GAS SPUR PIPELINE CONSTRUCTION EASEMENT EXISTING PIPELINES OTHER

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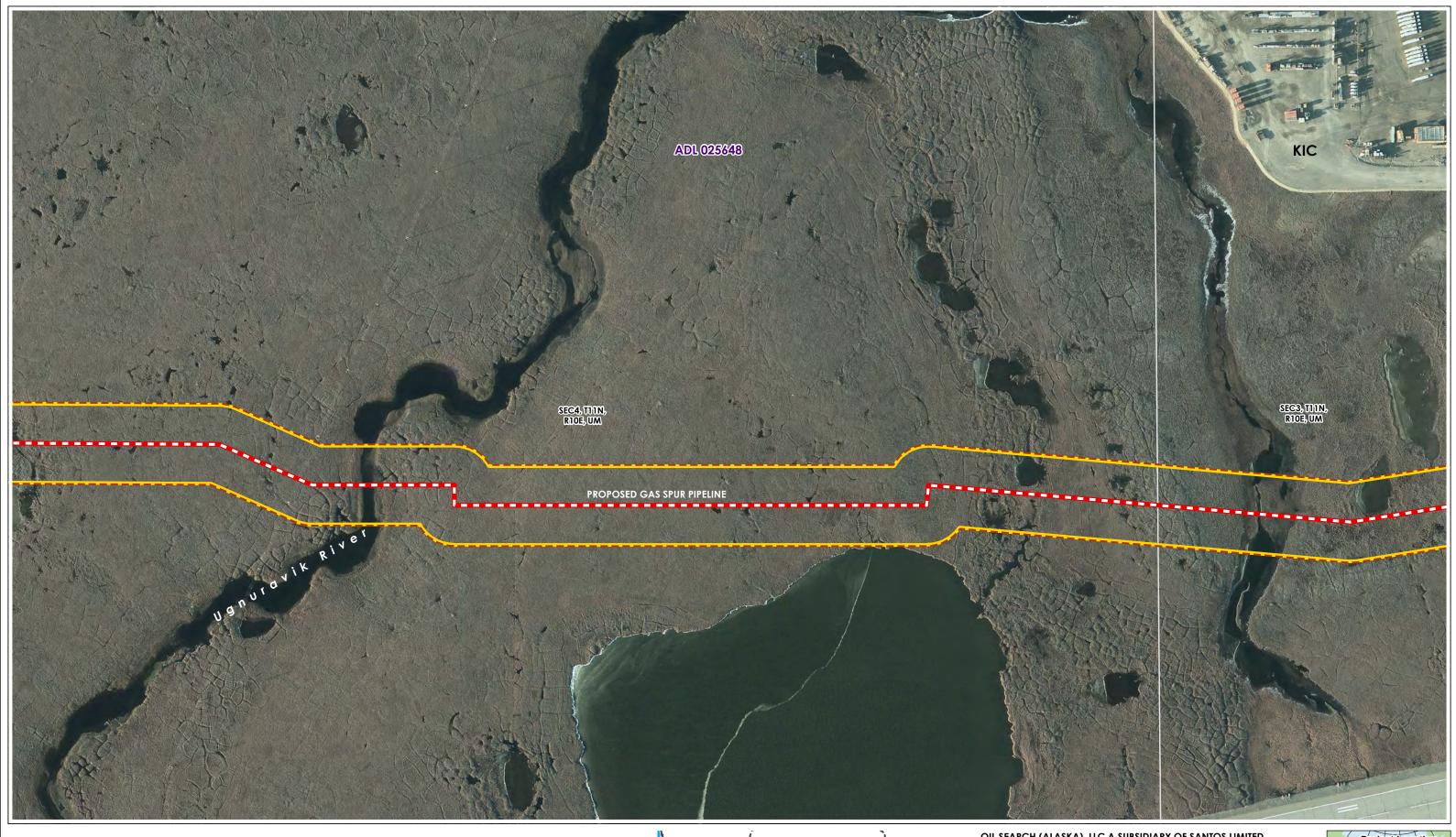


OIL SEARCH (ALASKA), LLC A SUBSIDIARY OF SANTOS LIMITED PIKKA DEVELOPMENT PROPOSED GAS SPUR PIPELINE

Figure 3 of 8

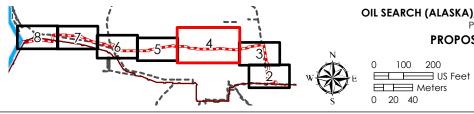
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Santos PROPOSED GAS SPUR PIPELINE PROPOSED GAS SPUR PIPELINE CONSTRUCTION EASEMENT

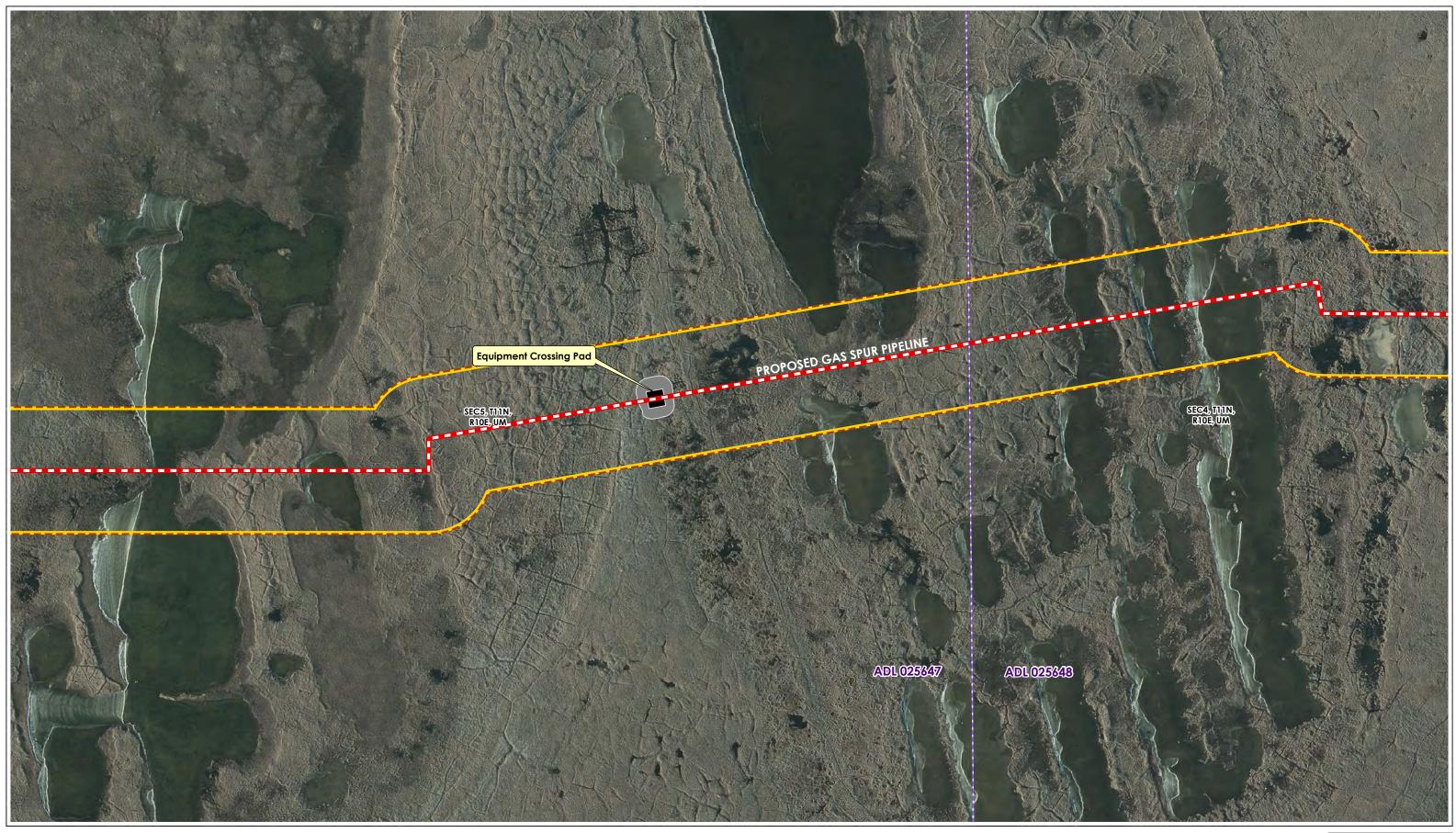
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OIL SEARCH (ALASKA), LLC A SUBSIDIARY OF SANTOS LIMITED PIKKA DEVELOPMENT PROPOSED GAS SPUR PIPELINE

Figure 4 of 8





Santos PROPOSED GAS SPUR PIPELINE PROPOSED GAS SPUR PIPELINE CONSTRUCTION EASEMENT PROPOSED GRAVEL SHOULDER

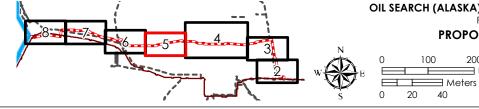
PROPOSED GAS SPUR PIPELINE

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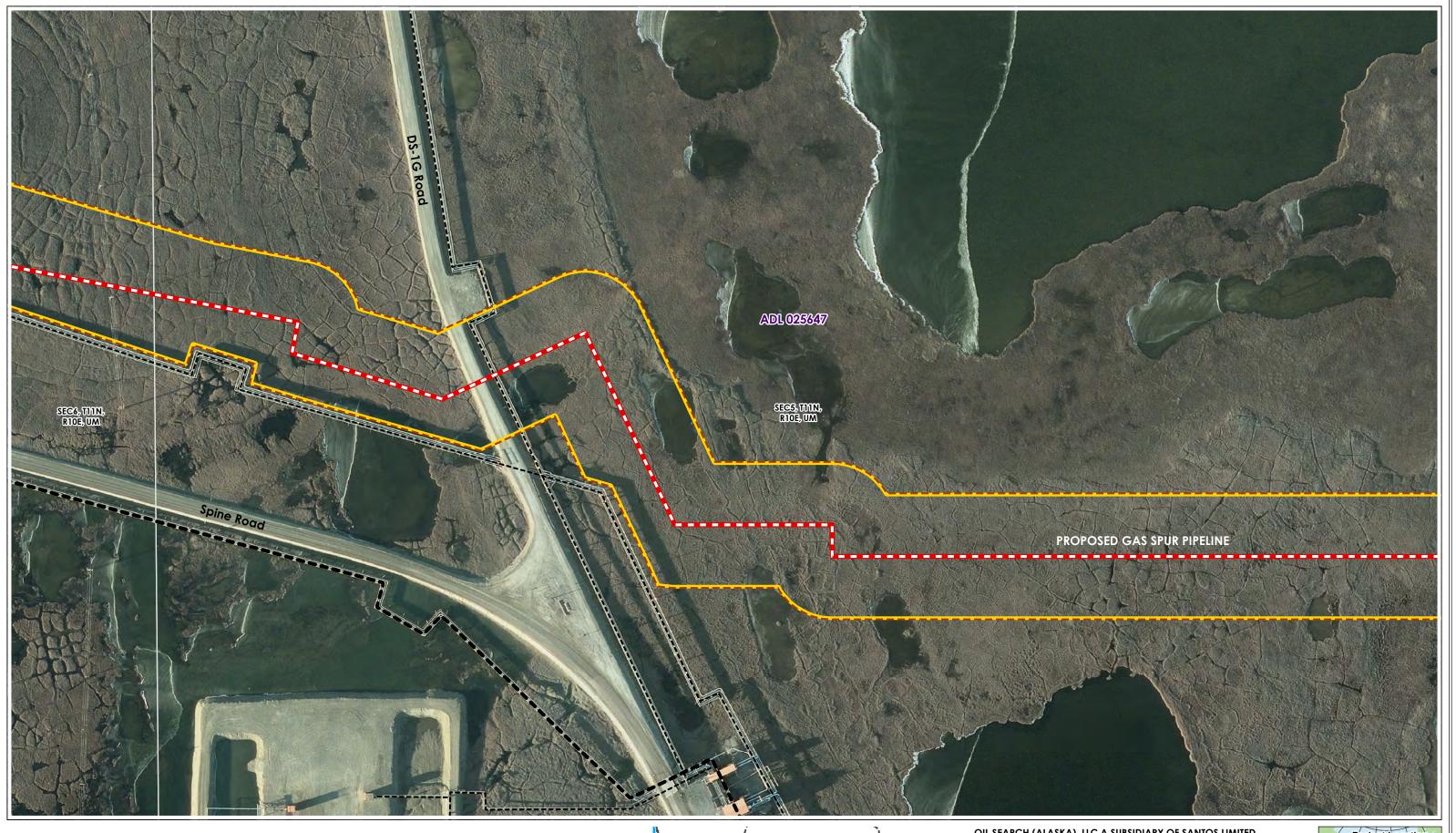


OIL SEARCH (ALASKA), LLC A SUBSIDIARY OF SANTOS LIMITED PIKKA DEVELOPMENT PROPOSED GAS SPUR PIPELINE

Figure 5 of 8

200 ∃ US Feet





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- PROPOSED GAS SPUR PIPELINE PROPOSED GAS SPUR PIPELINE CONSTRUCTION EASEMENT
 EXISTING PIPELINES OTHER

•• KUPARUK PIPELINES

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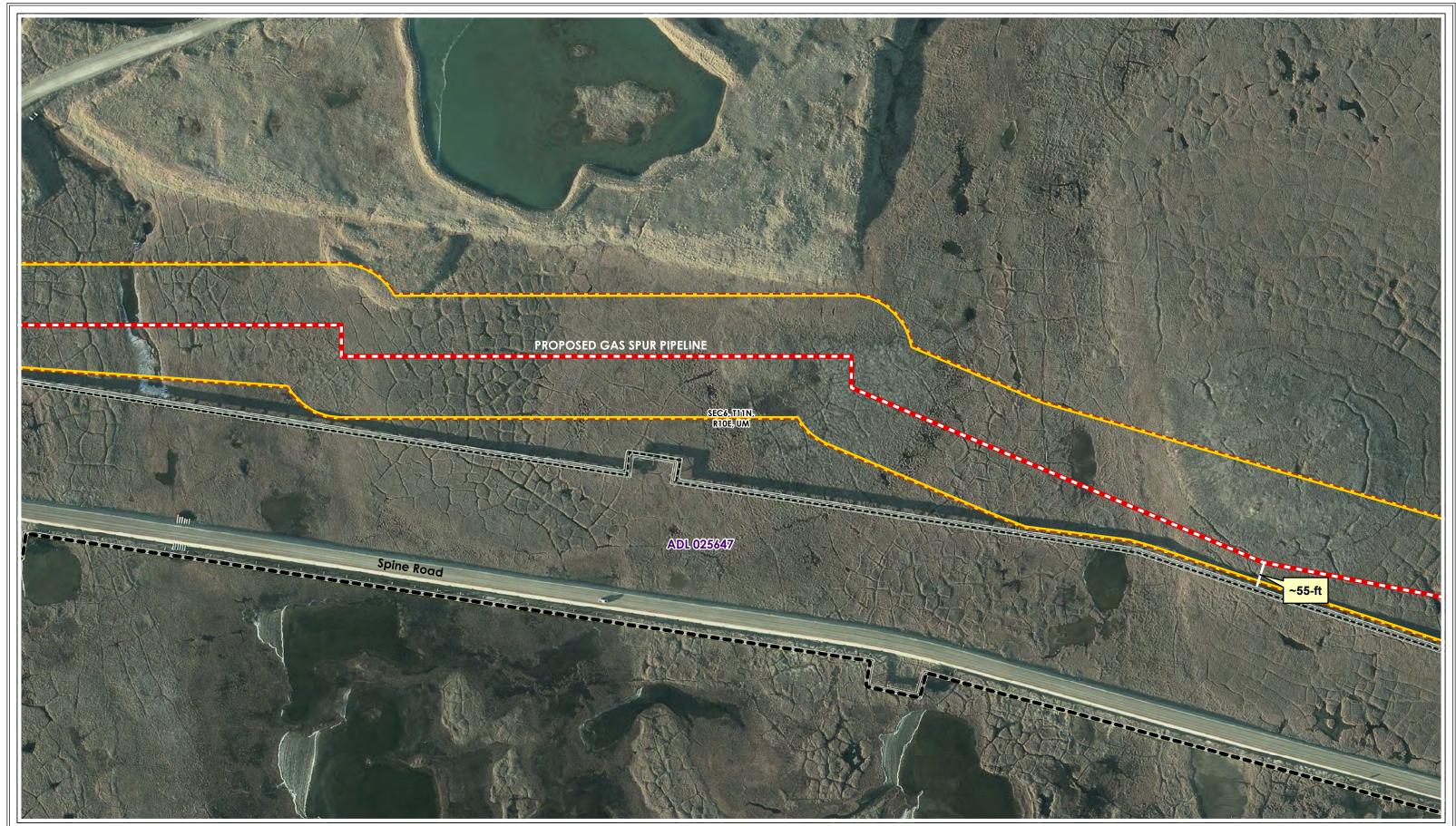
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Figure 6 of 8

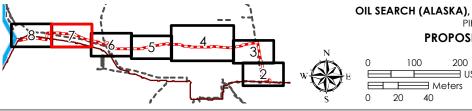
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- KUPARUK PIPELINES SECTION BOUNDARY
- TOWNSHIP BOUNDARY
- LEASE BOUNDARY

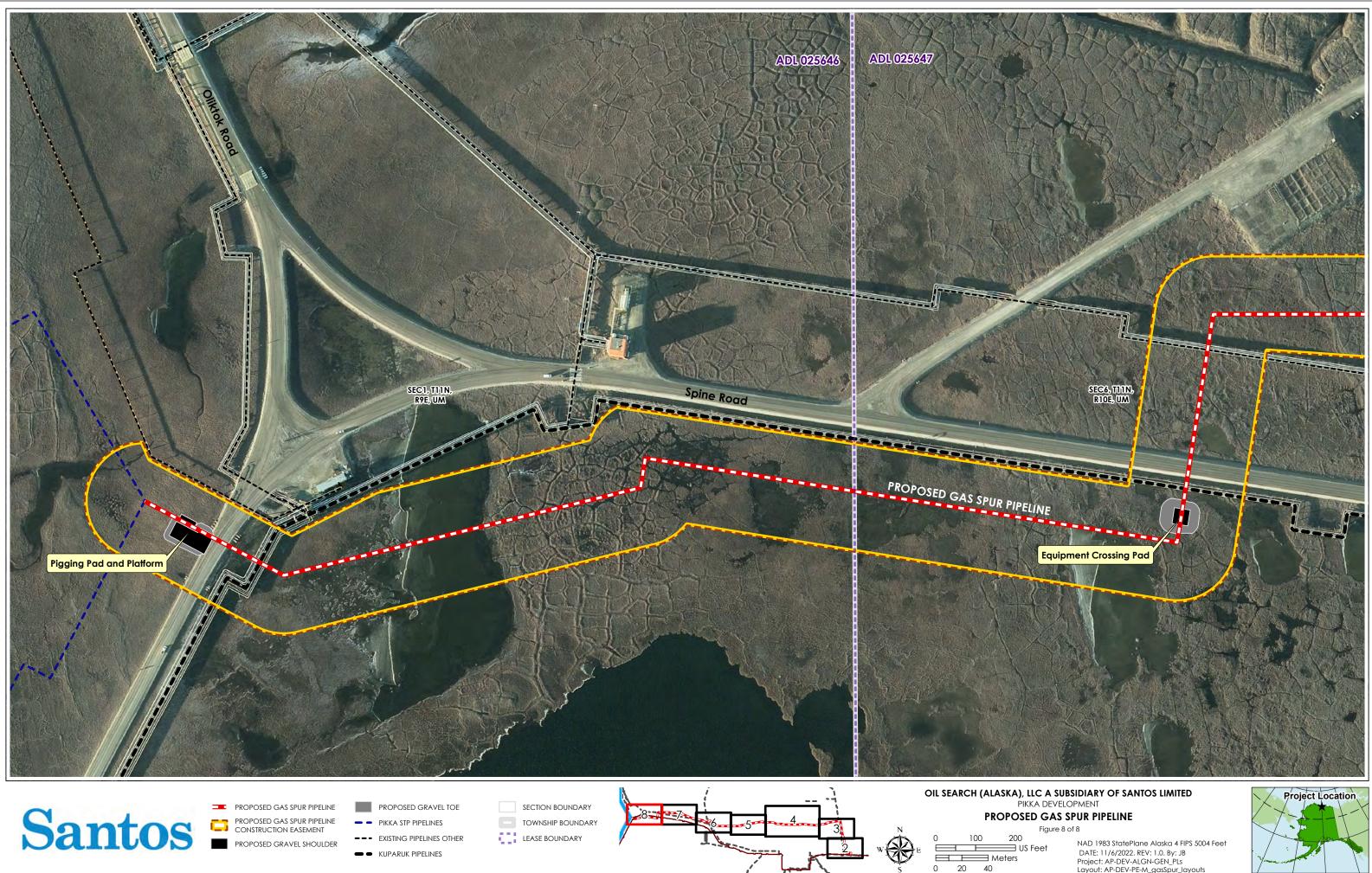


OIL SEARCH (ALASKA), LLC A SUBSIDIARY OF SANTOS LIMITED PIKKA DEVELOPMENT PROPOSED GAS SPUR PIPELINE

Figure 7 of 8

🗏 US Feet





DATE: 11/6/2022. REV: 1.0. By: JB Project: AP-DEV-ALGN-GEN_PLs Layout: AP-DEV-PE-M_gasSpur_layouts