



Lynn DeGeorge
Sr. Environmental Coordinator
700 G Street, ATO 1752
P.O. Box 100360
Anchorage, Alaska 99510-0360
Phone 907.263.4671
Fax 907.265.1515

May 21, 2015

Amy Karn
State of Alaska
Department of Natural Resources
Division of Mining, Land & Water
550 W. 7th Ave, Suite 900C
Anchorage, Alaska 99501-3577

Re: GMT1 Application for Easement
CD4N to ACF and Nigliq Channel Crossing
Colville River Unit

Dear Ms. Karn:

ConocoPhillips Alaska, Inc. (CPAI) requests authorization for a Right-of-Way (ROW) easement between CD4 North (CD4N) and Alpine Central Facility (ACF) to install a 14-inch water injection line on 400 new VSMS.

CPAI intends to install the new VSMS adjacent to the existing VSMS and pipelines between CD4N and ACF. The requested easement will be 50 feet wide and will be located on the west side of the Nuiqsut Gas Pipeline ROW from CD4N to the CD2/CD4 conversion, and on the east side of the pipeline from the CD2/CD4 conversion to ACF. Maps depicting the easement are attached to the permit application.

In addition, CPAI is requesting an easement over the Nigliq Channel to install the 14-inch water injection line. The water line will be added to existing VSMS (see attached drawings, sheet 20).

Enclosed with this letter is the Application for Easement; Environmental Risk Questionnaire; construction codes, standards and specifications; list of permits; permit drawings and maps.

If you have any questions or need additional information, please contact me at (907) 263-4671.

Sincerely,

A handwritten signature in blue ink that reads "Lynn DeGeorge".

Lynn DeGeorge
Sr. Environmental Coordinator

Application for Easement

**STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER**

Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2740

Southcentral Region
550 W 7th Ave., Suite 900C
Anchorage, AK 99501-3577
(907) 269-8552

Southeast Region
400 Willoughby
P.O. Box 111020
Juneau, AK 99811-1020
(907) 465-3400

**APPLICATION FOR EASEMENT
AS 38.05.850**

Non-refundable application fee: \$100*

ADL # _____
(to be filled in by state)

Applicant's Name Lynn DeGeorge **Doing business as:** ConocoPhillips Alaska, Inc.

Mailing Address P.O. Box 100360 **E-Mail:** Lynn.A.DeGeorge@conocophillips.com

City/State/Zip Anchorage, Alaska 99510-0360

Message Phone (907)263-4671 **Work Phone** (907)263-4671

Is applicant a nonprofit cooperative association? [] yes [x] no. If yes, are you applying for an exemption under **AS 38.05.850(b)**? [] yes [] no. If yes, please submit proof of nonprofit status (e.g. by-laws, articles of incorporation, tax statement).

Location of activity/Legal Description: Municipality _____, Meridian Umiat
Township 11N, Range 5 East, Section 5, 6, 7, _____ 1/4, _____ 1/4
Township 11N, Range 4 East, Section 13, _____ 1/4, _____ 1/4

(attach extra sheets as needed)

Total length of applied-for easement (feet): 13,974.8 feet Total width of applied-for easement (feet): 50 feet

Acres encompassed by easement: 16.07 acres (43,560 square feet = 1 acre)

Specific purpose of easement (e.g. electric utility, fiber-optic conduit or cable, telecommunications tower, road, bridge, airstrip/airport, driveway, trail, drainage), and type of anticipated traffic (e.g. plane, truck, heavy equipment): Explain _____
Installation of new water injection pipeline and new support structures (VSMs and HSMs) to support Greater Mooses Tooth One development project.

Are you applying for the Division of Mining, Land and Water to reserve a Public Easement? Yes No . Are you applying to be granted a Private Easement? Yes No . (Note: Annual rental fee required for private easement)

*See 11 AAC 05.010 regarding fees for federal, state, and local government agencies

Date Stamp:

State briefly the standards and methods of construction: e.g. regulated standards, winter trail, dirt trail, gravel road, paved road, etc.; clearing by hand, clearing/construction by mechanical equipment (state type of equipment to be used, e.g. J.D. 350, 944 F.E. loader, hydro-axe, D-8), or establishment by use only. _____

Construction and installation of the VSMs and pipeline will take place during the winter months using ice road access to the pipeline ROW. CPAI would develop and utilize ice roads that are a minimum of 6 inches thick during such operations; thus eliminating or minimizing any impacts to surrounding and underlying wetlands. See the attached sheet for Codes, Standards and Specifications and equipment to be used.

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

Construction to begin: January 2016

Construction to be completed by: December 2018

Other permits or authorizations applied for in conjunction with this proposed project: See attached list of permits.

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 cost to the state and to the satisfaction of the Director of the Division of Mining, Land and Water.


Applicant's Signature

5/21/15
Date

INSTRUCTIONS: Attach a USGS map (scale of 1:63,360) or a state status plat showing the location of the proposed easement, and an environmental risk assessment questionnaire (form 102-4008A).

The final granting of a private easement or reservation of a public easement will be contingent upon our receipt of a plat depicting the post-construction location of the improvements. If your application is approved, instructions for the completion of the plat will be provided to you, or can be picked up at any of our offices.

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 the 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.

Environmental Risk Questionnaire

**STATE OF ALASKA DEPARTMENT OF NATURAL RESOURCES
DIVISION OF MINING, LAND AND WATER**

- | | | | |
|--|--|---|--|
| <input type="checkbox"/> Contract Administration
550 W 7th Ave., Suite 640
Anchorage, AK 99501-3576
(907) 269-8594 | <input type="checkbox"/> Northern Region
3700 Airport Way
Fairbanks, AK 99709
(907) 451-2740 | <input type="checkbox"/> Southcentral Region
550 W 7th Ave., Suite 900C
Anchorage, AK 99501-3577
(907) 269-8552 | <input type="checkbox"/> Southeast Region
400 Willoughby, #400
Juneau, AK 99801
(907) 465-3400 |
|--|--|---|--|

APPLICANT ENVIRONMENTAL RISK QUESTIONNAIRE

The purpose of this questionnaire is to help clarify the types of activities you propose to undertake. The questions are meant to help identify the level of environmental risk that may be associated with the proposed activity. The Division of Mining, Land and Water's evaluation of environmental risk for the proposed activity does not imply that the parcel or the proposed activity is an environmental risk from the presence or use of hazardous substances.

Through this analysis, you may become aware of environmental risks that you did not know about. If so, you may want to consult with an environmental engineer or an attorney.

<u>Lynn DeGeorge</u>	<u>ConocoPhillips Alaska, Inc.</u>		
Applicant's Name	Doing Business As		
<u>P.O. Box 100360</u>	<u>Anchorage</u>	<u>Alaska</u>	<u>99510-0360</u>
Address	City	State	Zip
<u>(907) 263-4671</u>	<u>(907) 263-4671</u>	<u>Lynn.A.DeGeorge@conocophillips.com</u>	<u>Lynn DeGeorge</u>
Message Phone	Work Phone	E-Mail	Contact Person

Describe the proposed activity:

The proposed GMT1 14-inch water injection pipeline will be installed on the existing VSMs from CD5 to CD4N (across the Nigliq Channel). From CD4N, the water injection pipeline will run approximately 3.3 miles north, parallel to the existing CD4N pipeline and the existing Alpine Oil Pipeline. This new set of pipeline VSMs is required because there is insufficient capacity for transport of water to GMT1 in existing pipelines. The pipe rack will also have space for an 8-inch future pipeline as well as a 24-inch future pipeline.

In the course of your proposed activity will you generate, use, store, transport, dispose of, or otherwise come in contact with toxic and/or hazardous materials, and/or hydrocarbons? Yes No

If yes, please list the substances and the associated quantities. Use a separate sheet of paper, if necessary.

If the proposed activities involve any storage tanks, either above or below ground, address the following questions for each tank. Please use a separate sheet of paper, if necessary, and, where appropriate, include maps or plats:

a. Where will the tank be located? N/A

b. What will be stored in the tank? _____

c. What will be the tank's size in gallons? _____

d. What will the tank be used for? (Commercial or residential purposes?) _____

e. Will the tank be tested for leaks? _____

f. Will the tank be equipped with leak detection devices? Yes No . If yes, describe: _____

Do you know or have any reason to suspect that the site may have been previously contaminated? Yes No .

If yes, please explain: _____

I certify that due diligence has been exercised and proper inquiries made in completing this questionnaire, and that the foregoing is true and correct to the best of my knowledge.

Lynn DeGeorge

Applicant

5/21/2015

Date

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 09.25.110 and 09.25.120 (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 the 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.

Codes, Standards and Specifications

GMT1 Right-of-Way Easement Application

Codes, Standards and Specifications

Pipeline design and construction shall be in accordance with the latest edition or revision in effect at date of issue, unless noted otherwise.

Codes and Standards

(IBC)	International Building Code 2012 Edition with State of Alaska Amendments
(ASCE)	7-10, Minimum Design Loads for Buildings and Other Structures, 2010
(AISC)	360-10, Specification for Structural Steel Building, 2010
(AGSC)	Alaska General Safety Code
(ASME)	B31.4, Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids, 2012 Edition B31.8, Gas Transmission and Distribution Piping Systems, 2012 Edition B16.5, Pipe Flanges and Flanged Fittings – NPS ½ through NPS 24, 2013 Edition
(API)	5L, Specification for Line Pipe, 45 th Edition, December 2013
(OSHA)	Occupational Safety and Health Administration Regulations
(AWS)	D1.1 – 2010, Structural Welding Code
(NACE)	MR0175, Metals for Sulfide Stress Cracking and Stress Corrosion Cracking Resistance in Sour Oilfield Environments, 2007 Edition

CPAI Specifications

CRT-CE-NS-80001	Architectural/Civil/Structural Criteria
CRT-GA-NS-80001	Overview Criteria, Core Specifications and Design Guidelines Criteria
CRT-GA-NS-80002	General Site Conditions Design Criteria
CRT-GA-NS-80003	National Codes and Standards Design Criteria
CRT-PT-NS-80002	North Slope Pipelines Criteria
SPC-CE-NS-80003	Ice Road, Pad, & Bridge Construction and Use
SPC-CE-NS-80005	Pipeline Road Crossing Materials and Construction
SPC-CE-NS-80500	Civil Design Specification
SPC-HP-NS-80002	Pipeline Hydrostatic Testing Specification
SPC-MP-NS-80001	Process Design Standard
SPC- MP-NS-80002	Process Hazard Analysis Standard
SPC-MA-NS-80002	External Coating for Moderately Corrosive Service
SPC-MA-NS-80004	External Pipe Coating – Application of Fusion Bonded Epoxy
SPC-PT-NS-80003	Carbon Steel Pipeline Welding
SPC-PT-NS-80006	Carbon Steel Induction Bends
SPC-PT-NS-80013	High Yield Carbon Steel Flanges and Forged Fittings
SPC-PT-NS-80014	High Yield Carbon Steel Fittings
SPC-PT-NS-80015	High Yield Carbon Steel Pipe
SPC-PT-NS-80016	Handling, Transport, and Storage of Pipe
SPC-PT-NS-80018	North Slope Pipelines Design Specification

GMT1 Right-of-Way Easement Application

SPC-PT-NS-80055	Valve, Flange, & Anchor Blanket Specification
SPC-PT-NS-80206	Module Line Class G
SPC-PT-NS-80215	Pipeline Material Specification
SPC-PT-NS-80224	Line Class GND7
SPC-PT-NS-80233	Line Class BKP7
SPC-PT-NS-80251	Line Class FNC7
SPC-PT-NS-80260	Valve Procurement Specification
SPC-PT-NS-80271	Gasket Procurement
SPC-PT-NS-80272	Stud Bolting Procurement
SPC-PT-NS-80300	Shop Applied Insulation
SPC-PT-NS-80301	Preformed Pipeline Insulation
SPC-PT-NS-80501	Pipeline support Saddle Guideline
SPC-PT-NS-80502	Pipeline Support Guide Guideline
SPC=PT-NS-80503	Teflon slide Plate Guideline
SPC-PT-NS-80504	Pipeline support Anchor Guideline
SPC-SS-NS-80004	Beam and Pile Cap Fabrication for Pipe Support Assemblies
SPC-SS-NS-80007	Structural Steel Fabrication and Erection Specification
SPC-SS-NS-80300	Structural Steel Welding
SPC-SS-NS-80500	Material Toughness Requirements for Structural Steel Specification
SPC-SS-NS-80501	Structural Design Specification

Equipment

Equipment that will be used for this project includes:

- 1 - CAT 16G motor grader
- 2 - 150 barrel articulated water truck – Volvo A40
- 2 - Articulated rock truck – Volvo A40
- 3 - 30 cy Maxi-Haul tractor-trailer
- 4 - 175 barrel water truck
- 3 - 966 loader
- 1 - Snow blower
- 1 – Mechanics truck
- 1 – 4,000 gallon fuel truck
- 1 – Trimmer for ice chips
- 2 – 15 Pax crew van
- 4 – Pick-ups
- 1 – Tucker snow-cat

Required Permits

Required Permits and Authorizations

*All permits/authorizations are expected to be issued before Winter 2015

Agency	Permit/Approval	Notes
<i>Federal</i>		
Lead and Cooperating Agencies	National Environmental Policy Act of 1969	BLM has completed a Final SEIS, which USACE has reviewed. The BLM published the Record of Decision (ROD) on February 13, 2015.
BLM	Application for Permit to Drill	Required for development and production of federal leases.
	Right of Way	Grants access to use public land for construction, operation, and maintenance of pipeline, production, and related facilities under the Naval Petroleum Reserves Production Act of 1976.
	Temporary Use Permit	Grants access to use public land for construction, operation, and maintenance of pipeline, production, and related facilities under the Naval Petroleum Reserves Production Act of 1976.
	Essential Fish Habitat (EFH) Assessment	Required as a part of the Magnuson-Stevens Fishery Conservation and Management Act.
	ANILCA 810 Evaluation and Findings	Required to be completed as a part of any federal action proposed on public lands affected by ANILCA.
	Off-Lease Disposal of Produced Water	Required since water would be back-hauled to Alpine for disposal in existing UIC well.
	Production Commingling and Allocation Approval (CAA)	Required since the three-phase crude from GMT1 would travel from GMT1 to CD5 and co-mingle with CD5 three-phase crude in the CD5 pipeline to CD1/ACP.
	EO 13175 Tribal Consultation	Required as a part of government-to-government consultations to ensure the input of tribal officials on regulatory policies with tribal implications.

Required Permits and Authorizations

*All permits/authorizations are expected to be issued before Winter 2015

Agency	Permit/Approval	Notes
<i>Federal</i>		
Federal Aviation Administration	Determination of No Hazard (DNH) to Air Navigation	Required prior to use of any equipment taller than 100' including lighting or construction cranes.
USACE	Clean Water Act Section 404/10 Permit	Required for placement of fill in waters of the U.S (WOUS). POA-2013-461 was issued on January 16, 2015.
US EPA	Spill Prevention, Control, and Contermeasure (SPCC) Plan	The Alpine SPCC Plan would be amended to incorporate GMT1.
	Facitily Response Plan (FRP)	Required plan for prevention, preparation for, and response to oil spills that occur in or around the water of the U.S.
USFWS	Endangered Species Act Section 7 Consultation	ESA requires Federal agencies to ensure that any action authorized, funded or carried out by them is not likely to jeopardize the continued existence of listed species or modify their critical habitat. BLM and USACE have Federal actions relative to this project.
	Marine Mammal Protection Act, Letter of Authorization for Polar Bear Take	An LOA for GMT1 would be required for construction activities.
US Coast Guard	Bridge permit in compliance with Rivers and Harbor Act and General Bridge Act	Required bridge permit for Tin̄miaqsiǵvik (Ublutuoch) River crossing.
<i>State</i>		
Alaska Oil and Gas Conservation Commission	Permit to Drill	Required before drilling begins.
	Approval for Annular Disposal	Required for a Class II disposal well for disposal of drilling wastes.
	Area Injection Order	Required for a Class II injection well for disposal well or injection well for enhanced oil recovery

Required Permits and Authorizations

*All permits/authorizations are expected to be issued before Winter 2015

Agency	Permit/Approval	Notes
<i>State</i>		
Alaska Department of Natural Resources (ADNR) Division of Oil and Gas	Plan of Operations Authorization	Required before activities can take place on oil and gas leases on State of Alaska land.
ADNR Division of Mining Land and Water (DMLW)	Land Use Permit	Required to construct ice roads and pads and install VSMs on State land.
	Tundra Travel Permit	Required for ice road construction on tundra.
	Temporary Water Use Permit	Required for water withdrawals associated with ice road construction and dust suppression.
ADNR State Historic Preservation Office (SHPO)	National Historic Preservation Act, Section 106 Consultation	Requires Federal agencies to take into account the effects of their undertakings on historic properties.
Alaska Department of Fish and Game	Title 16 Fish Habitat Permit	Required for water withdrawals associated with ice road construction if water sources are fish-bearing and also for stream crossings.
ADEC	Clean Water Act Section 401 Water Quality Certification	Discharges of fill into WOUS require approval by ADEC prior to issuance of the Section 404 permit.
	APDES North Slope Oil and Gas General Permit	<i>Alpine's Storm Water Pollution Prevention Plan (SWPPP)</i> would be updated to include GMT1.
	Air Quality Permit	Required for air pollutant emissions from construction and operation activities.
	Temporary Storage of Drilling Waste	This permit is required for temporary storage of drilling waste at the site.
	Oil Discharge Prevention and Contingency Plan (ODPCP)	The Alpine ODPCP would be amended to incorporate GMT1.
	Certificate of Financial Responsibility	Required approval for financial responsibility for cleanup of oil spills.

Required Permits and Authorizations

*All permits/authorizations are expected to be issued before Winter 2015

Agency	Permit/Approval	Notes
<i>State</i>		
State of Alaska, Department of Public Safety	Fire and Life Safety Plan Review	Required plan review of any building construction or installation or change of fuel tank to ensure fire code enforcement.
<i>Local</i>		
North Slope Borough	Title 19 Development Permit	Issues Development Permits for oil and gas projects under NSB Code of Ordinance Title 19.
	Rezoning	Required for rezoning a Conservation District area to a Resource Development District.
	Inupiat History, Language, and Culture Division – Traditional Land Use Inventory Clearance	Required from the NSB for ground- disturbing activities on the NSB.
Arctic Slope Regional Corporation	Grant relief of Lease Stipulation K-1 (Fish Creek Setback)	Required since proposed action includes development in Fish Creek Setback.
Kuukpik Corporation	Land Use Authorization	Required authorization for facilities constructed on Kuukpik land.
Native Village of Nuiqsut	EO 13175 Tribal Consultation	Required as a part of government- to-government relations that ensures the input of tribal officials on regulatory policies with tribal implications.

Drawings



NIGLIQ CHANNEL

CD4 ROAD
[existing]

CD4 & ALPINE SALES
PIPELINES [existing]
CD5 PIPELINES [not in project]

GMT1 PIPELINE
[proposed piperack with 14" water injection pipeline
parallel to existing CD4 and Alpine sales piperacks]

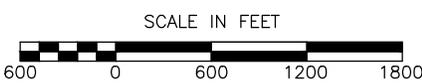
CD5 PIPELINE - (not in project)
[proposed GMT1 14" water injection
pipeline to be added to CD5 piperack]

1405' NIGLIQ BRIDGE
[existing]

250' L9323 BRIDGE
[existing]

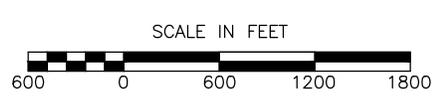
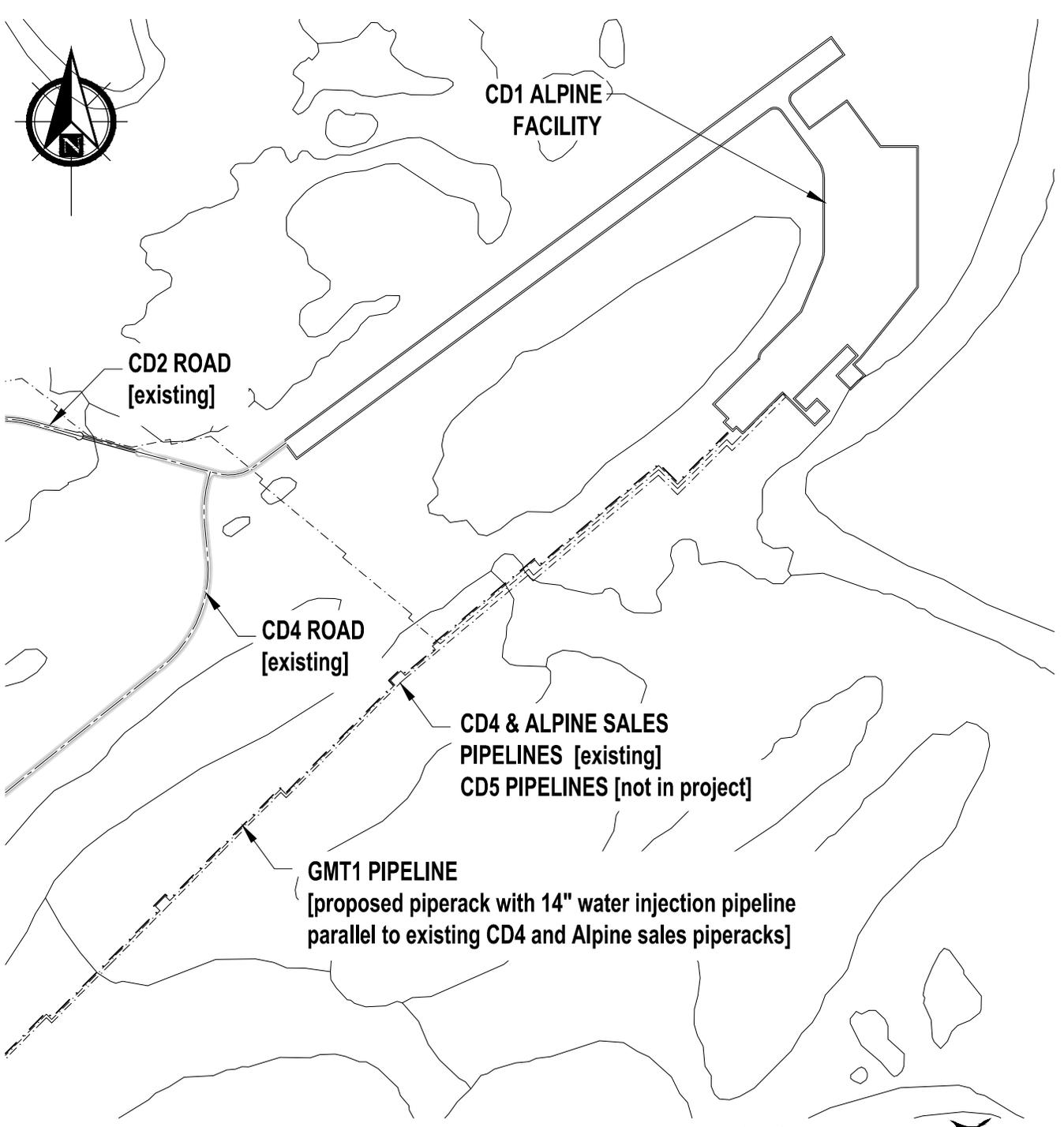
CD4N

CD5 ROAD
[existing]



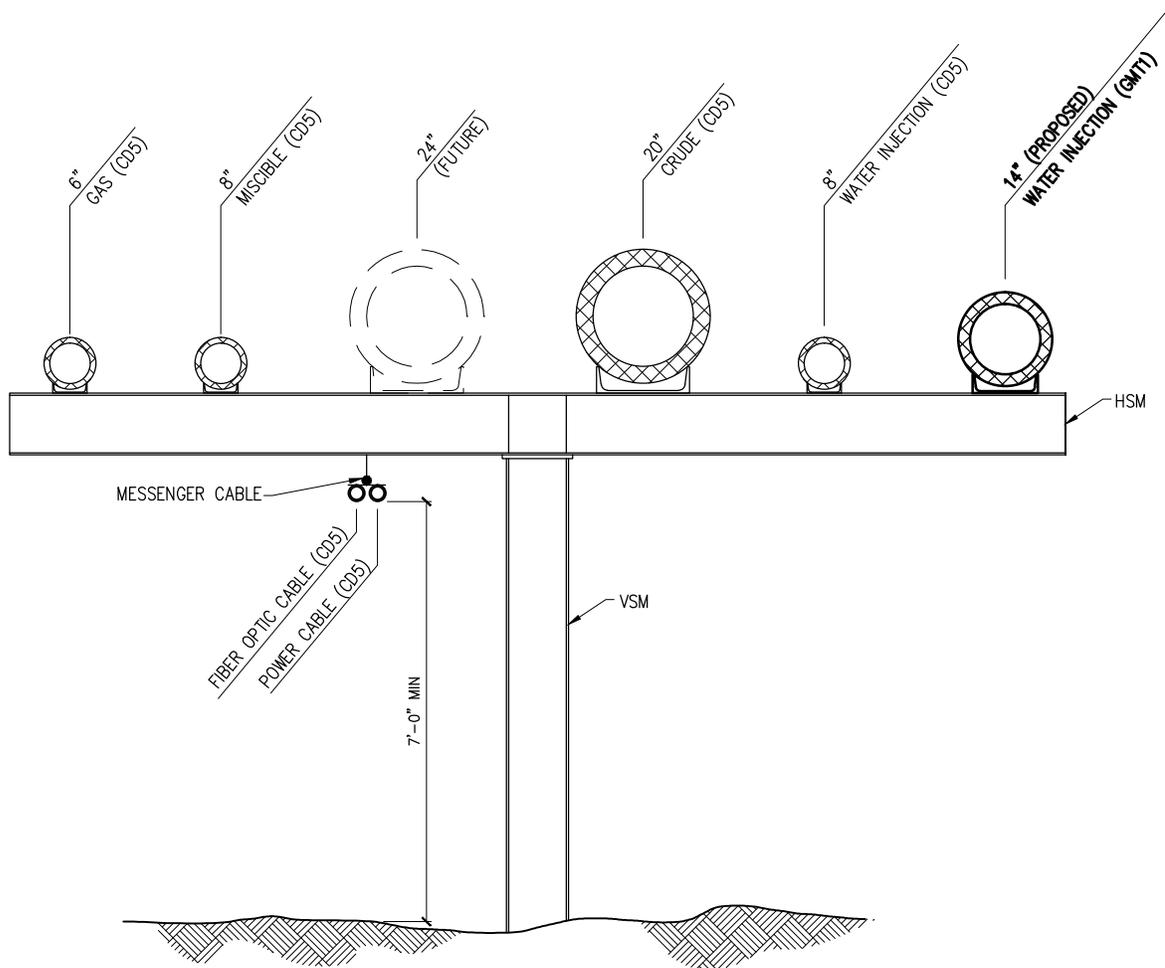
REFERENCE: POA 2013-461
APPLICANT: CPAI
PROPOSED: GMT1 ROAD, PAD,
& PIPELINE
CONSTRUCTION
AT: ALASKA
SHEET **14** of **33** 02/04/15

PROPOSED GMT1 PIPELINE (CD4N TO CD1)
ROUTE KEY MAP 8 OF 9



PROPOSED GMT1 PIPELINE (CD4N TO CD1)
ROUTE KEY MAP 9 OF 9

REFERENCE: POA 2013-461
 APPLICANT: CPAI
 PROPOSED: GMT1 ROAD, PAD,
 & PIPELINE
 CONSTRUCTION
 AT: ALASKA
 SHEET **15** of **33** 02/04/15



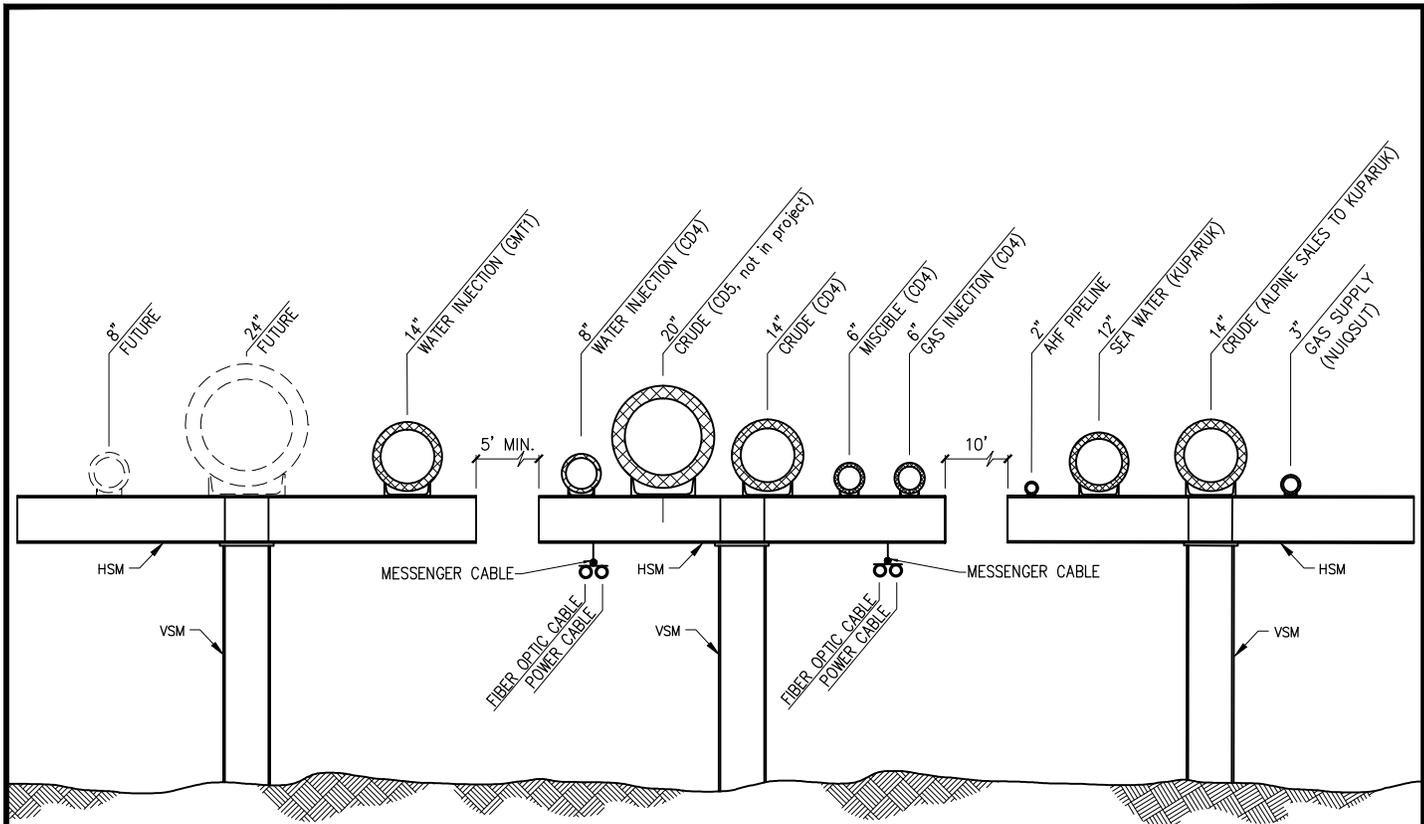
CD5 TO CD4N TYPICAL PIPELINE SECTION

NOTE: PROPOSED 14" WATER INJECTION LINE TO BE ADDED TO CD5 PIPERACK [not in project].



REFERENCE: POA 2013-461
 APPLICANT: CPAI
 PROPOSED: GMT1 ROAD, PAD,
 & PIPELINE
 CONSTRUCTION
 AT: ALASKA
 SHEET **20** of **33** 02/04/15

CD5 to CD4N PROPOSED PIPELINE SECTION



**PROPOSED
GMT1 PIPELINE**

**EXISTING
CD-4 PIPELINE**

**EXISTING ALPINE
SALES PIPELINE**

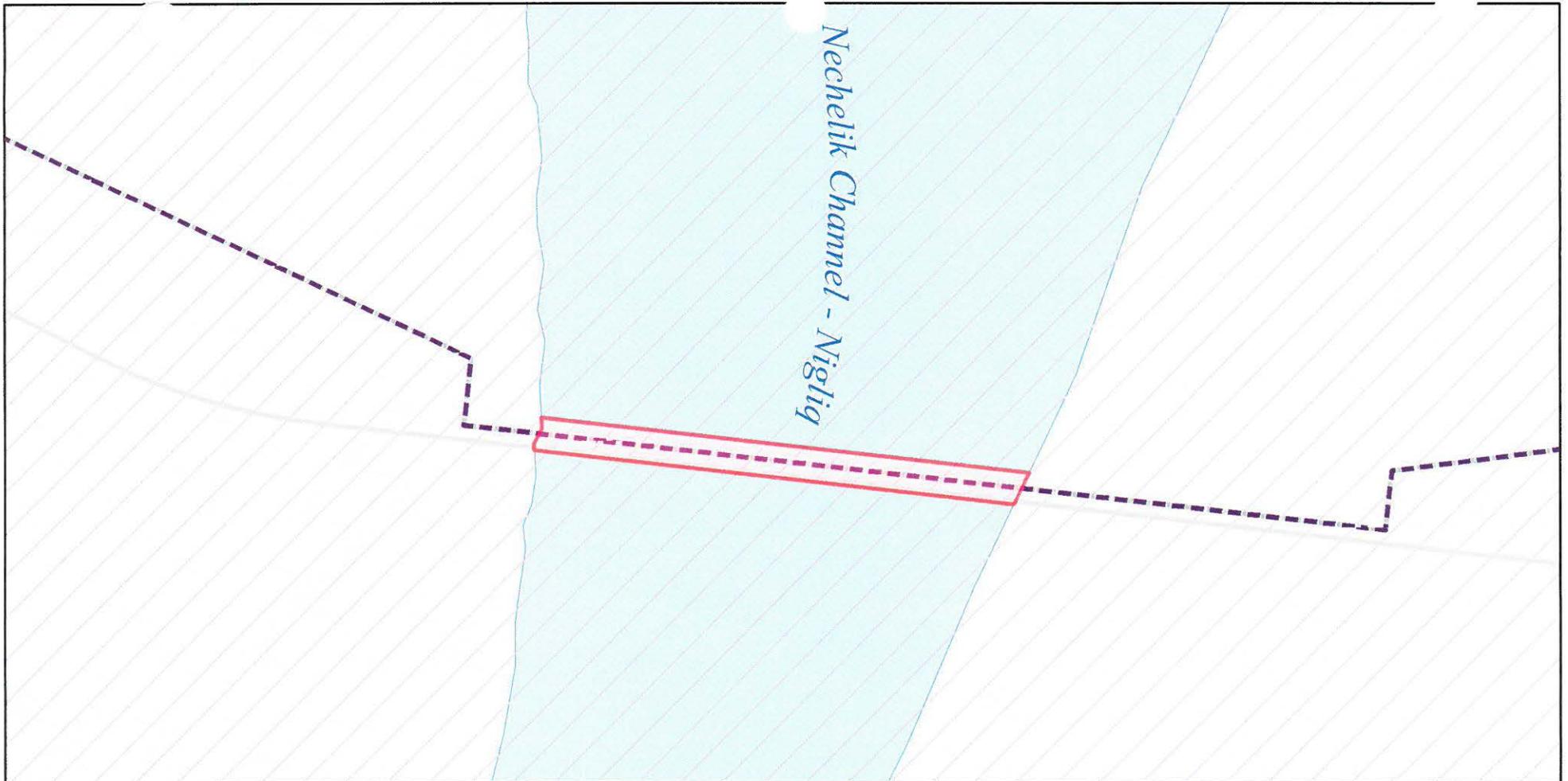
CD4N TO CD1 (ALPINE) PROPOSED PIPELINE SECTION



REFERENCE: POA 2013-461
 APPLICANT: CPAI
 PROPOSED: GMT1 ROAD, PAD,
 & PIPELINE
 CONSTRUCTION

AT: ALASKA
 SHEET **21** of **33** 02/04/15

Maps



0 100 200 Feet

ConocoPhillips
Alaska, Inc.

May 21, 2015

GMT1 Proposed WI Pipeline

Nigliq Channel Crossing Easement

GMT1 Proposed Infrastructure

Pipeline

Road

GMT1 14in WI Pipeline

Pad

Proposed Pipeline Easement

CD5 Infrastructure

Pipeline Pad

Road

Land Status

NPR-A

Native Patent or IC

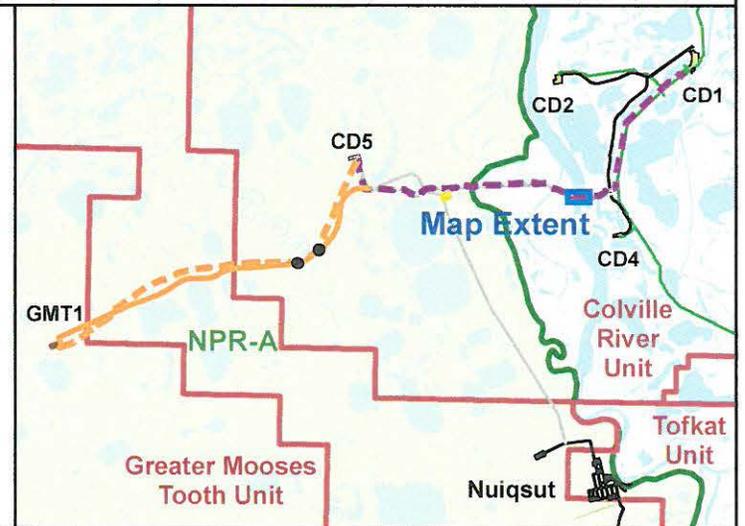
Existing Infrastructure

Pipeline Pad

Road

Unit Boundary

Unit



151°0'0"W

150°55'0"W

GMT1 Pipeline CD4N to ACF Alignment ROW Verification Overview

CD4N to ACF Alignment

-  Proposed Pipeline Route (Kuukpik Land)
-  Proposed Pipeline Route - State Land (~13,240')
-  Proposed Pipe Support

Existing Infrastructure (Length)

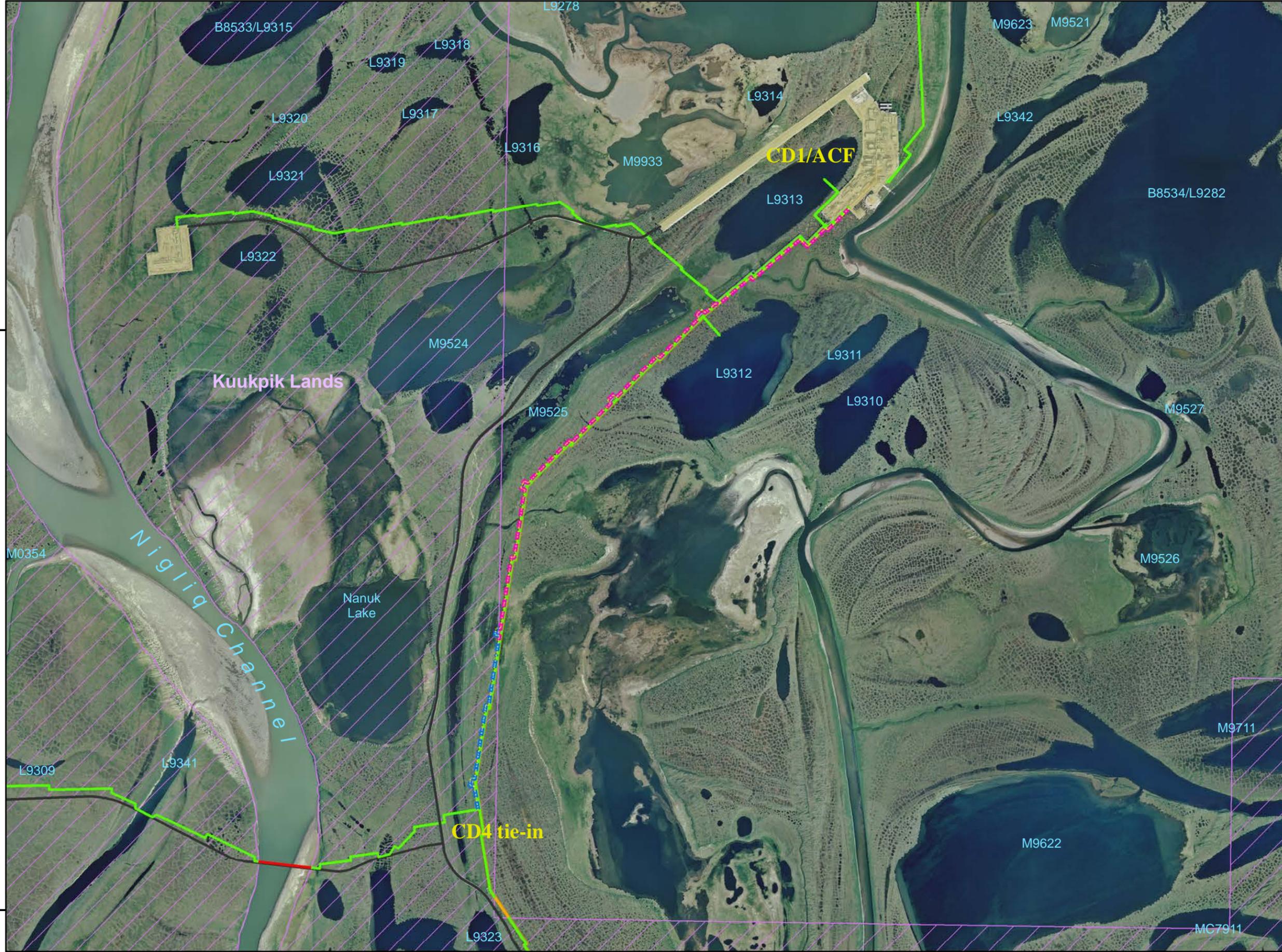
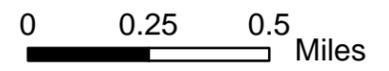
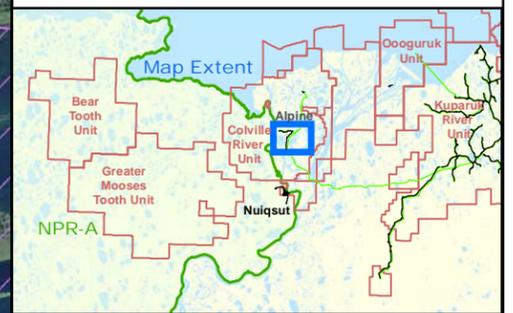
-  Road
-  Pipeline
-  Pipeline - State Land (~1475')
-  Pipeline- State Land (~543')
-  Pad

Pipeline Right of Way

-  Pipeline ROW

Land Ownership

- Kuukpik Lands**
-  Native Patent or IC



70°20'0"N

70°18'0"N

151°0'0"W

150°55'0"W