

ALASKA PipelineProject



Alaska Pipeline Project - Project Description Overview EIS Scoping Meetings

January - February 2012

Introduction to the Alaska Pipeline Project

- The Alaska Pipeline Project (APP) is a joint undertaking by TransCanada and ExxonMobil to treat, transport, and deliver Alaska North Slope natural gas to pipeline facilities in Alberta, Canada, for markets in the contiguous U.S. and North America
- The project is federally regulated by FERC as the lead agency under the U.S. Natural Gas Act. The project is also being progressed under the Alaska Gasline Inducement Act (AGIA)
- This presentation provides a brief overview of our proposed project as described in the Draft Resource Reports, with emphasis on information contained in the *General Project Description* (Resource Report #1)
- After the FERC Scoping Meeting has concluded, please visit the APP table to view maps showing preliminary project facility siting and pipeline routing



Key Project Components

Point Thomson Gas Transmission Line

- Approx. 58 miles
- Delivers Point Thomson gas to gas treatment plant (GTP)

Gas Treatment Plant

- Located on North Slope within Prudhoe Bay Unit
- Conditions natural gas for pipeline transportation

Alaska Mainline

- 745 miles long in Alaska (1,717 miles total)
- 8 compressor stations in Alaska (19 total)
- Minimum of 5 in-state natural gas delivery points

Total Land Affected in Alaska

- Construction: Approx. 32,000 acres
- Operations: Approx. 10,500 acres

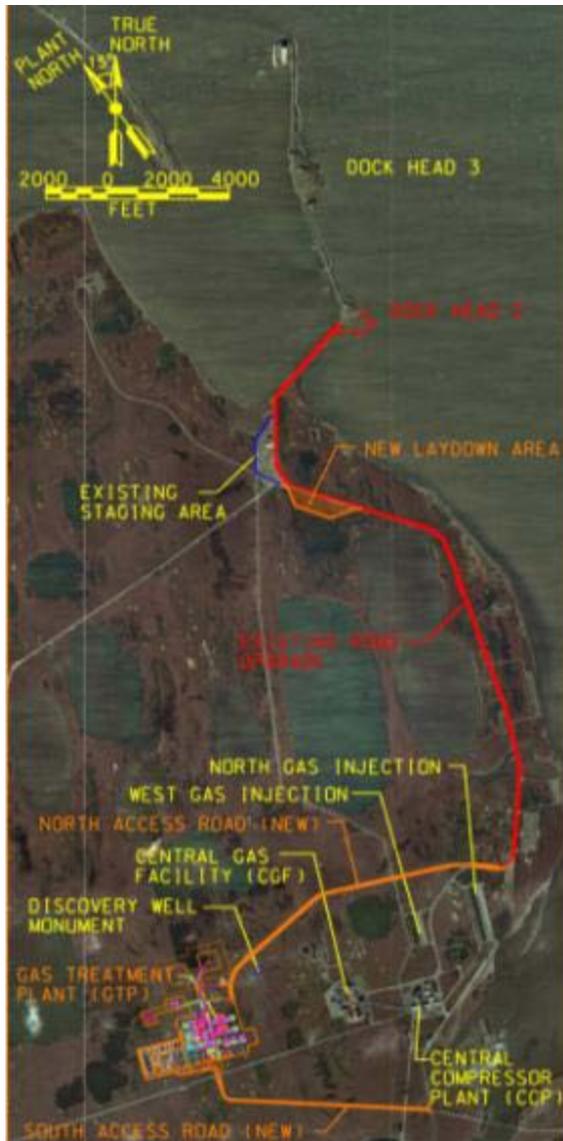


Point Thomson Gas Pipeline



- Approx. 58 miles of buried 32-inch-diameter pipeline
- 1.1 billion standard cubic feet per day (bscfd) annual average capacity at a maximum allowable operating pressure of 1,130 pounds per square inch gauge (psig)
- Minimum nominal wall thickness of 0.387 inches
- Natural gas cooled to temperatures below freezing before entering pipeline

Gas Treatment Plant (GTP)

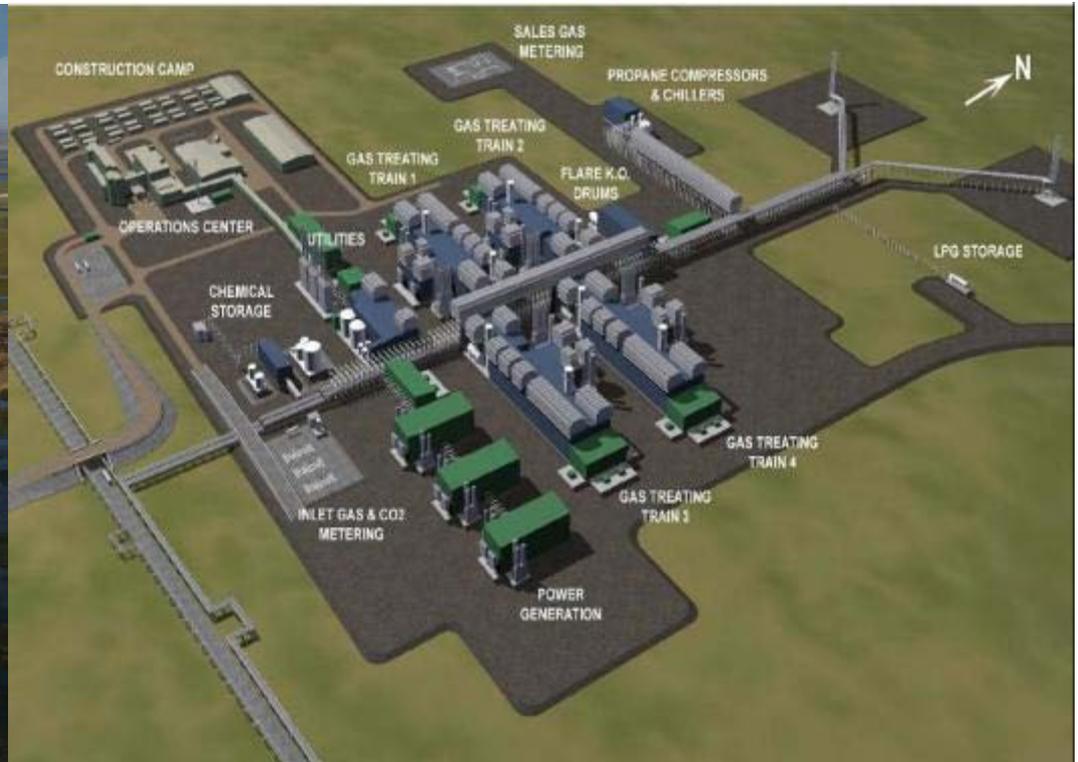


- Situated in Prudhoe Bay Unit adjacent to the existing Central Gas Facility (CGF)
- Designed to process an annual average of up to 5.3 bscfd of untreated natural gas, and deliver an annual average of up to 4.5 bscfd of sales quality natural gas to the Alaska Mainline at pressures up to 2,500 psig
 - Remove gas impurities
 - Dehydrate to sales gas quality
 - Compress to pipeline pressure
 - Chill gas
 - Dehydrate and compress CO₂ (for reinjection)
- Approx. 1 million installed horsepower
- Infrastructure upgrades include expansion of West Dock – Dock Head 2 with associated dredging for facility module delivery barges

Gas Treatment Plant (GTP)



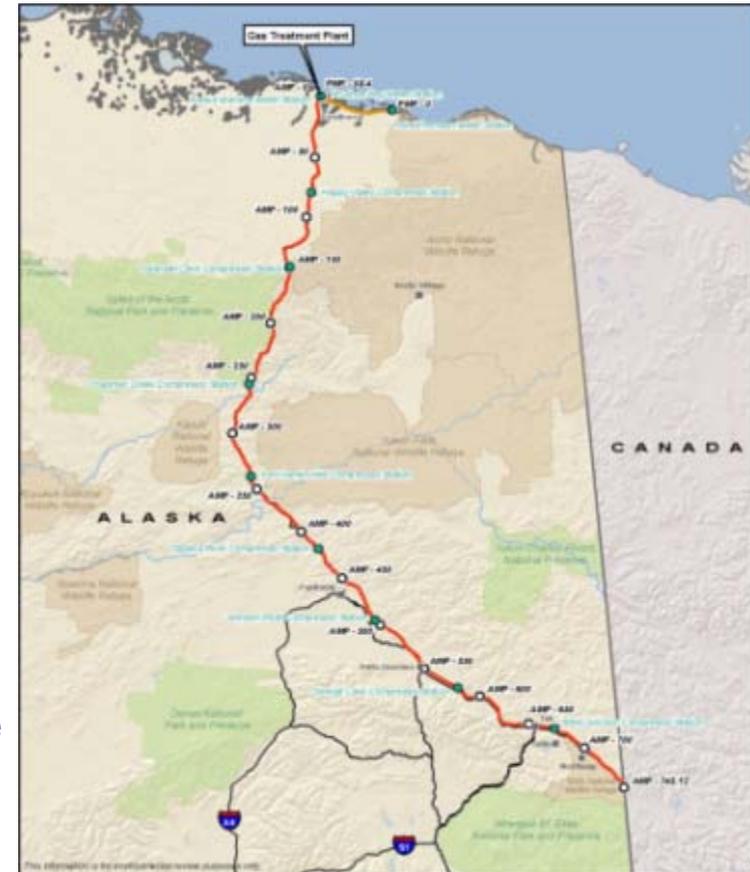
**Prudhoe Bay Unit Facilities
(existing)**



**APP Gas Treatment Plant
(computer generated)**

Alaska Mainline

- Approx. 745 miles of 48-inch diameter pipeline
- Pipeline will be mostly buried
- Natural gas will be cooled
- 4.5 bscfd annual average capacity at a maximum allowable operating pressure of 2,500 psig
- Roughly parallels the Dalton, Elliott, Richardson and Alaska highways to the Alaska/Yukon border
- Pipeline continues for approx. 972 miles through Yukon and British Columbia to NW Alberta
- Minimum nominal pipe wall thickness will be 0.932 inches
- Aboveground facilities associated with the pipeline include meter stations, major block valves, pig launchers/receivers and compressor stations
- Provisions for a minimum of 5 off takes within Alaska



Compressor Stations

Function

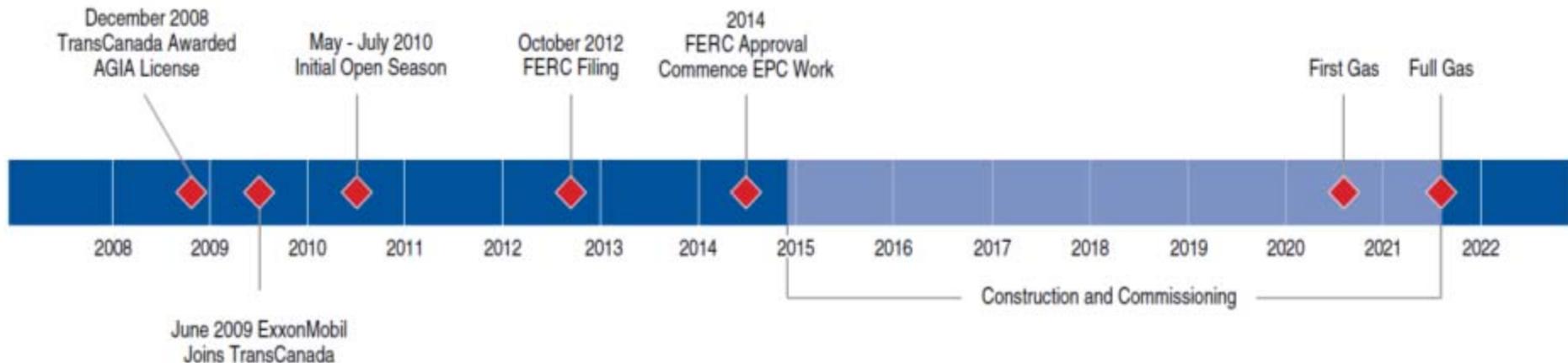
- Compress gas to pipeline pressure
- Cool discharge gas

Design – 8 Stations

- Approx. 90 mile intervals
- Approximately 25 acres per site
- 45,000 hp of gas turbine compression
- 6 stations with one turbine and 2 stations with multiple turbines
- Gas cooled using gas-to-gas heat exchangers and aerial coolers
- On-site power generation using natural gas as fuel
- Designed for remote operation with permanent living quarters on site



Project Schedule



- Consistent with plan to file an application with FERC in October, 2012 for a Certificate of Public Convenience and Necessity (CPCN)
- Timing of commencement of construction will depend on regulatory approvals, commercial support from natural gas shippers, and project sanction (approval) from the project sponsors

THANK YOU!



- APP appreciates your attendance today and we welcome your comments
- More information about APP and the Resource Reports can be found at our website:

www.thealaskapipelineproject.com

