

Alaska LNG





The Alaska LNG Project

The Alaska LNG export project is about innovative people and technology combining to develop Alaska's vast North Slope natural gas resources. BP, ConocoPhillips, ExxonMobil and TransCanada are working with the state of Alaska on an export LNG project to fuel Alaska's future.

ACCOMPLISHMENTS

POTENTIAL BENEFITS

SAFETY, HEALTH
AND ENVIRONMENT

CHALLENGES

NEXT STEPS



Alaska LNG



Accomplishments

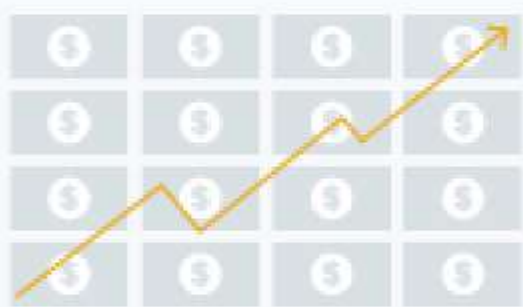
- Completed project design, announced concept Feb13
- Finalized lead LNG plant site decision, announced Oct13
- Safe and successful summer field season and data collection
- Confirmed ability to integrate into existing operations at producing fields
- Advanced GTP design work and LNG plant modeling
- Progressed pipeline routing, line hydraulics and materials design
- Evaluating sealift options and other logistics





Potential Benefits

- Single largest investment in Alaska's history
- Creates 9,000-15,000 jobs for design and construction plus ~1,000 jobs for operations
- Generates billions of dollars of new tax revenue for Alaska
- Provides access to natural gas for Alaskans



INCREASED REVENUE



15,000 ADDED JOBS



INVESTMENT IN LOCAL ECONOMY



Next Steps

- Continue field studies and environmental baseline assessments
- Continue engineering and design work for integrated project
- Prepare state and federal permit and license applications
- Establish a durable gas fiscal regime

NATURAL GAS DEMAND
INCREASES 65% BY 2040



2010



2020



2030



2040



Safety, Health and Environment (SHE)

- Committed to operating in a safe and environmentally responsible manner
- Protecting biodiversity and ecosystems
- Respect traditional knowledge



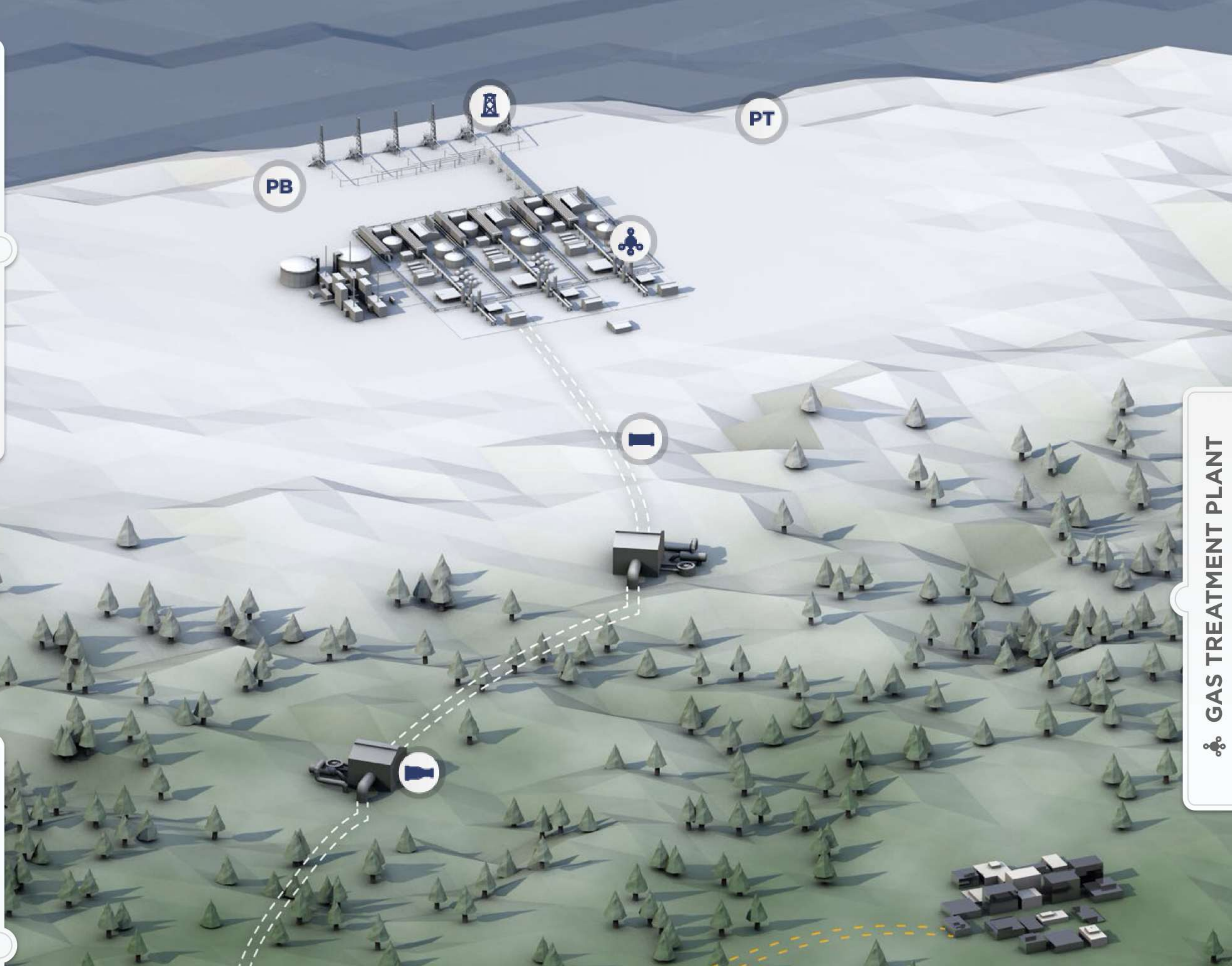
Challenges

- Megaproject requiring labor, resources and equipment that can handle Alaska's extreme, remote environment
- Complex commercial arrangements with foreign markets require long-term commitments
- Reducing impacts and risks of environmental and socioeconomic aspects
- Uncertainty related to permit timing / scope
- Working commercial and fiscal issues with all parties, including the State of Alaska



PRODUCING FIELDS

PIPELINE



PT

PB

GAS TREATMENT PLANT

DELIVER



STORAGE AND LOADING



LIQUEFACTION PLANT

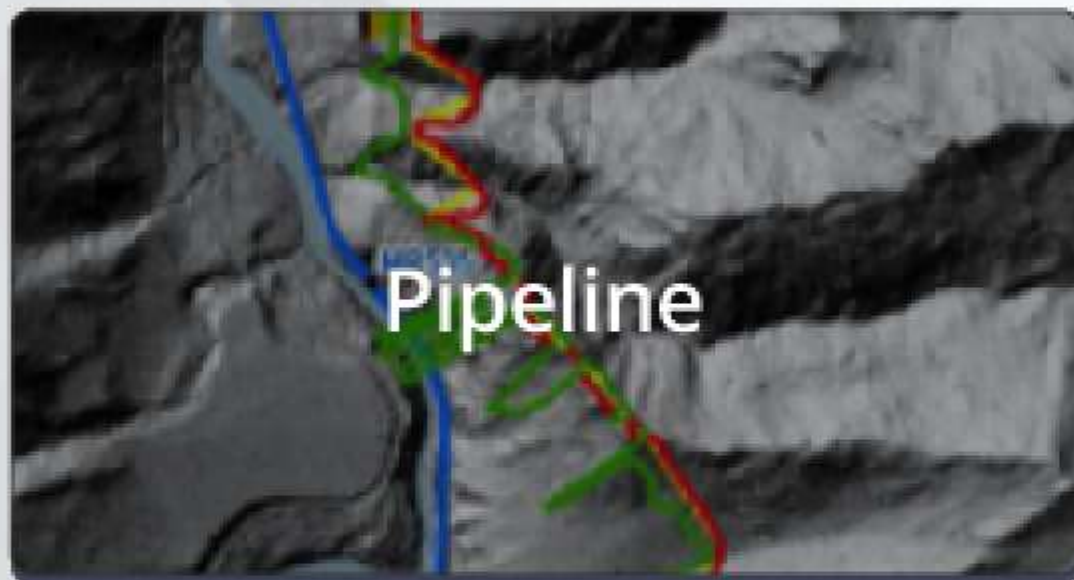


Modular Construction



Progress

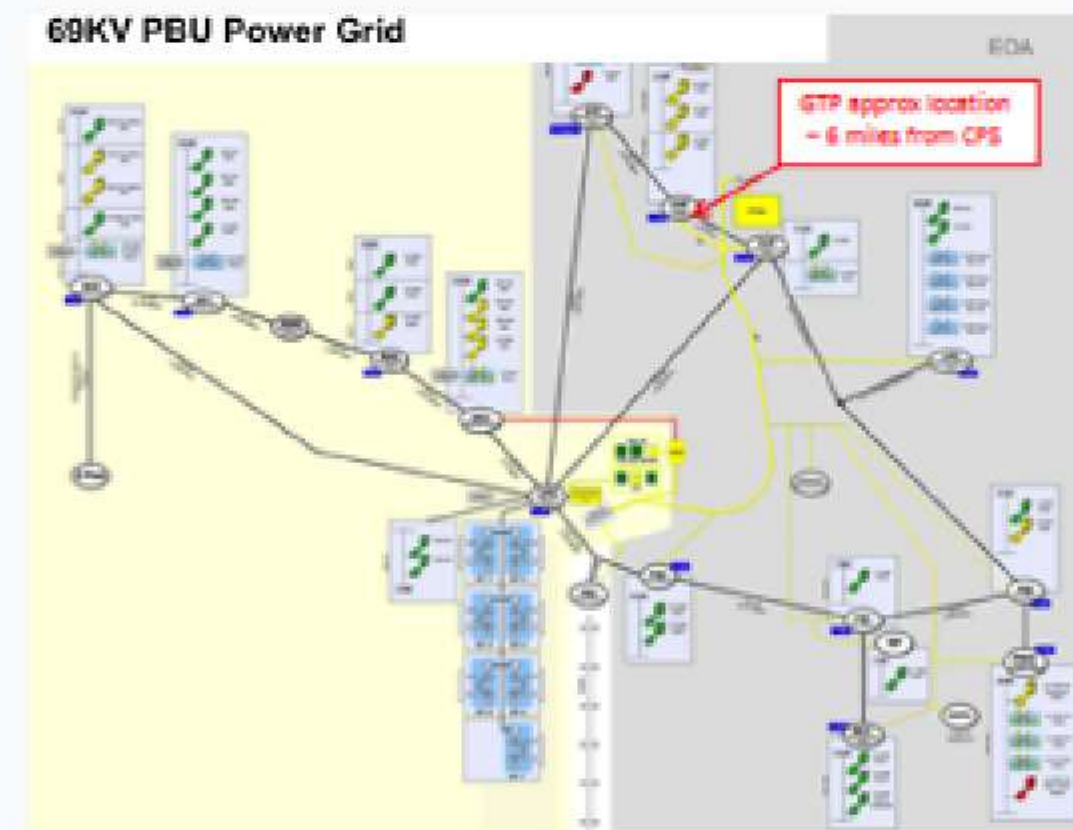
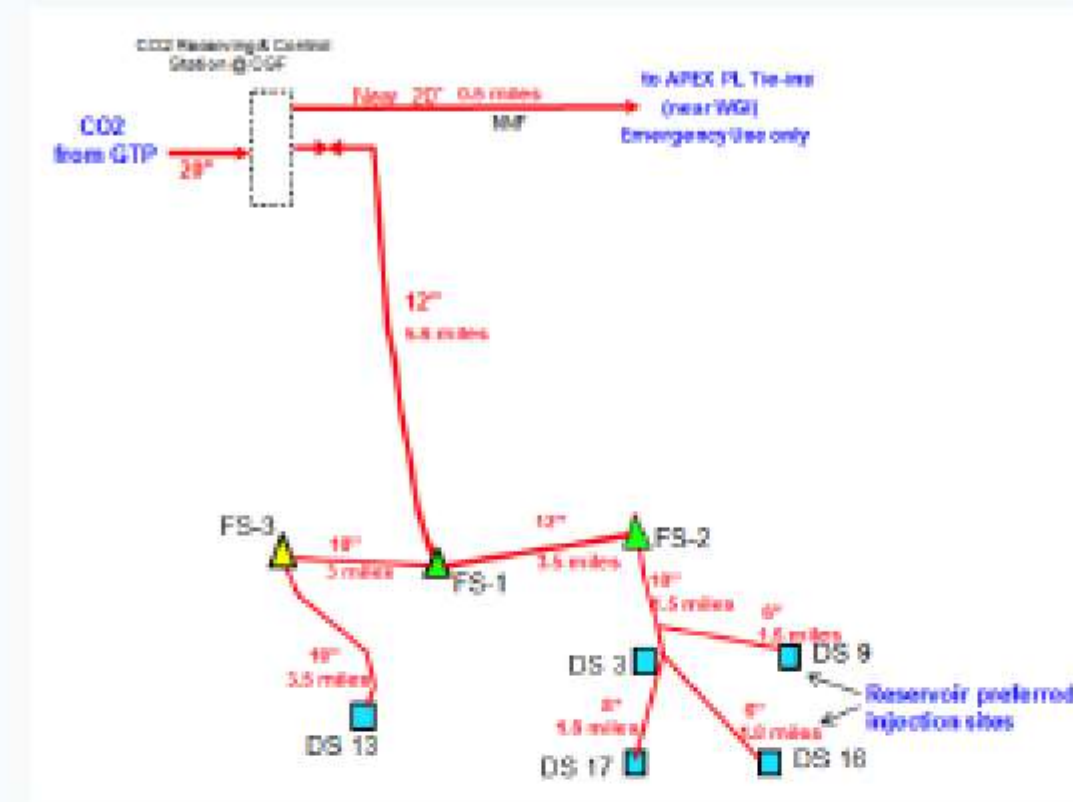
Further development in the Alaska LNG Project





Prudhoe Bay

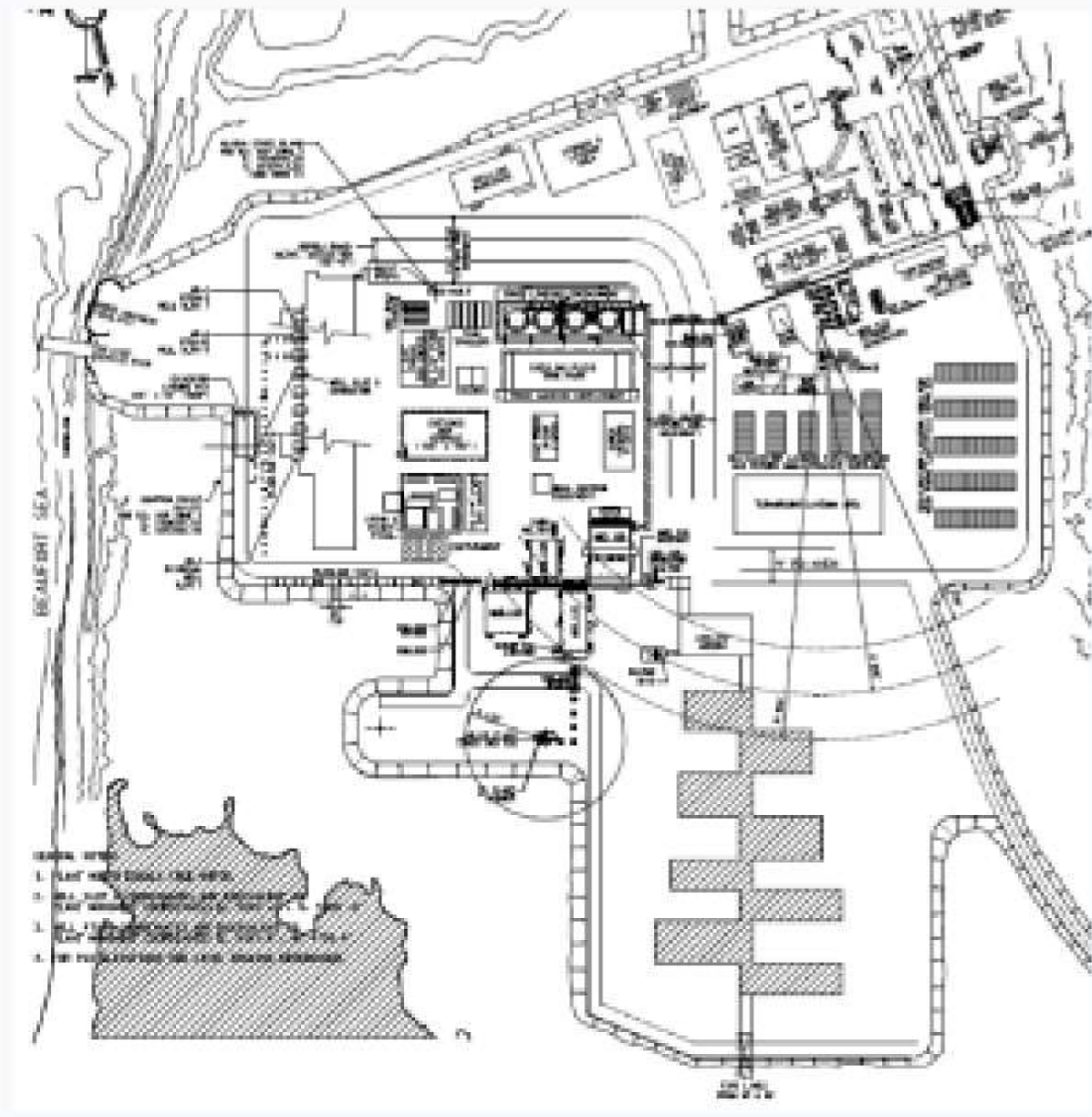
- Continued data capture/analysis of PBU gas composition
- Evaluated field dehydration performance
- Continuing depletion planning
- Developing integrated injection system
- Evaluating integrated power grid





Point Thomson

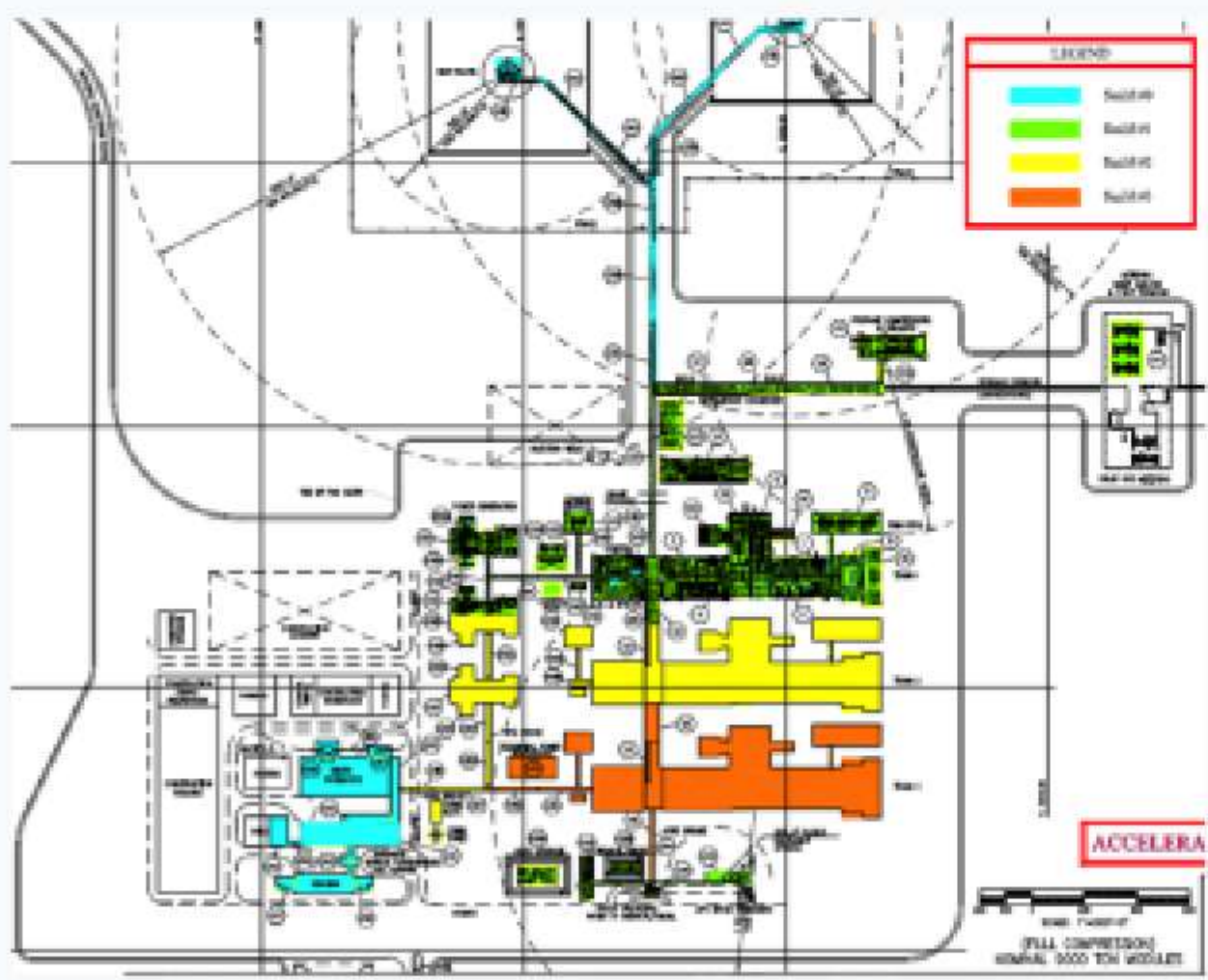
- Comparing plot plan options for safety and operability
- Evaluated process design requirements
- Developing design basis for future engineering work





Gas Treatment Plant

- Confirmed viability of 3 trains design, aligns gas treatment plant with LNG plant
- Finalized CO₂ design / handling basis
- Working to modularize plant design
- Evaluating sealift plans / order





Pipeline

- Refined route from PBU to Livengood, finalizing preliminary route from Livengood to Cook Inlet
- Working 'special design areas'
 - Atigun Pass
 - Denali National Park Area
 - Yukon River
 - Cook Inlet
- Progressing fundamental technical work on geohazard analysis, waterway crossings, hydraulics and design

DENALI NATIONAL PARK



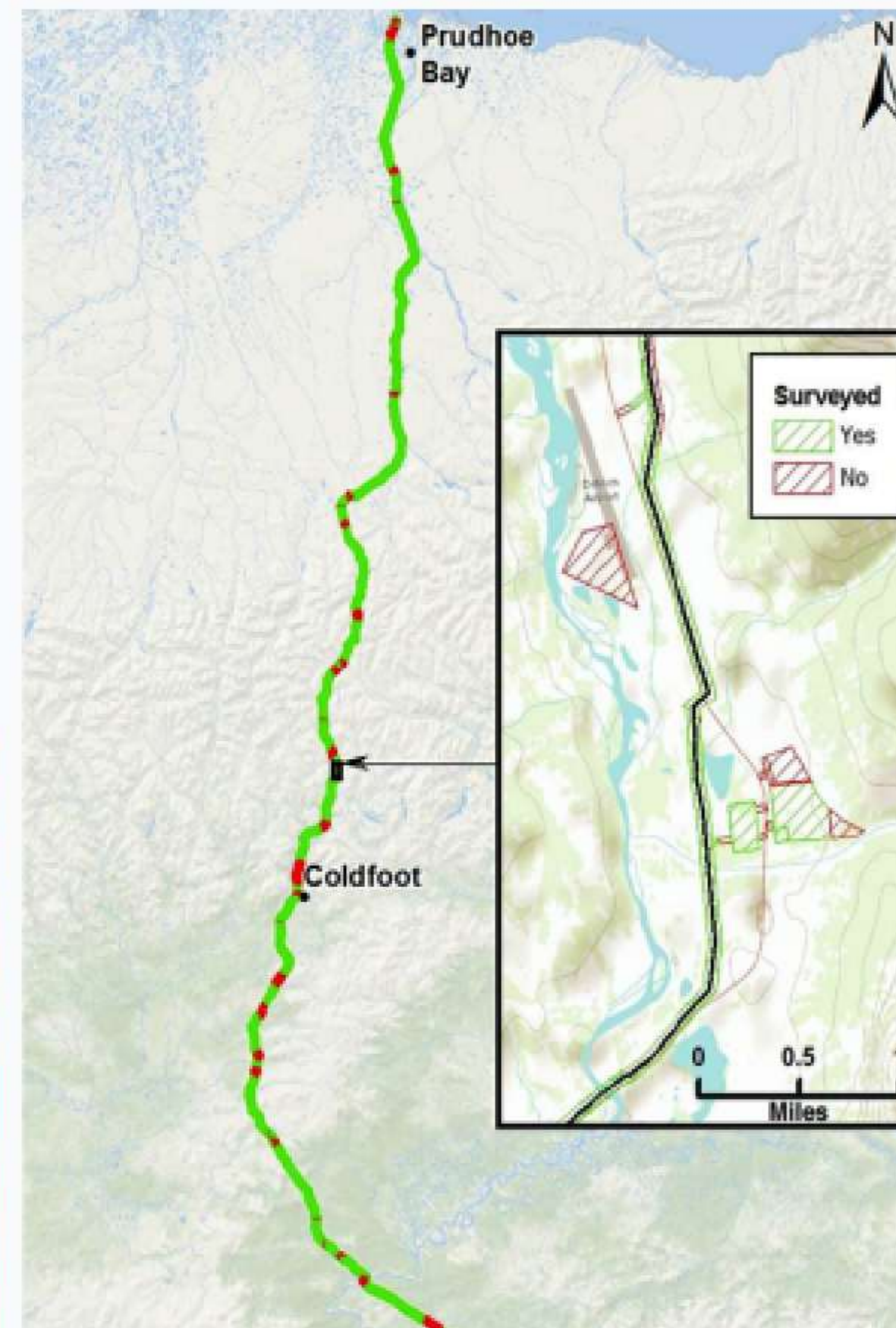
COOK INLET





Environmental, Regulatory and Land

- **Safe summer field season 2013**
 - No incidents for >40,000 man-hours, 90,000 miles
 - No reportable spills or public complaints
- **Peak workforce of over 130 contractor staff completed survey work from PBU to Livengood**
 - Over 6,500 acres surveyed for cultural resources
 - Over 75 hydrology, lakes and fisheries surveyed
 - Traditional knowledge and ethnographic surveys



Plans for a safe 2014 field season

- Civil and scientific surveys from Livengood to Nikiski
- Subsistence and health impact surveys
- Marine current and ice profiling
- Geotechnical and geophysical surveys
- Collaboration with state and federal agencies for permitting and approvals
- Local community engagement for field study scopes



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