Transporting Crude Oil

through the
Trans Alaska Pipeline System

Betsy Haines, Oil Movements Director
• Incorporated August 14, 1970 to design, build, operate and maintain the pipeline, pump stations and the Valdez Marine Terminal.

• Owned by five oil pipeline companies.

• Alyeska personnel and contractors continually monitor and operate TAPS so oil flows safely, efficiently and in an environmentally sound manner.

• Approximately 17 percent of the nation's domestic oil production carried on TAPS.

• 15 billion barrels+ of crude oil transported.

• 19,000+ tankers loaded.

• 700,000 barrels throughput per day (June 2008).

• 22 local, state, federal regulators
TAPS Owners & Percentages

BP Pipelines (Alaska), Inc. 46.9263%
ConocoPhillips Transportation Alaska Inc. 28.2953%
ExxonMobil Pipeline Company 20.3378%
Koch Alaska Pipeline Company, L.L.C. 3.0845%
Unocal Pipeline Company 1.3561%
Working Interest Owners

**Sadlerochit**
- BPXA
- Chevron/Texaco
- Forest Oil
- ConocoPhillips Alaska Inc.
- ExxonMobil

**Kuparuk**
- BPXA
- Union Oil Co. of Ca.
- Forest Oil
- ExxonMobil
- ConocoPhillips Alaska Inc.

**Milne Point**
- BPXA
- Kerr McGee
- ConocoPhillips Alaska Inc.

**Endicott**
- BPXA
- ExxonMobil
- Union
- Cook Inlet
- NANA
- Doyon
- ConocoPhillips Alaska Inc.

**Lisburne**
- BPXA
- Chevron
- Forest Oil
- ExxonMobil
- ConocoPhillips Alaska Inc.

**Badami**
- BPXA
- Chevron/Texaco
- ConocoPhillips Alaska Inc.
- ExxonMobil

**Northstar**
- BPXA
- Murphy Exploration AK Inc.

**Alpine**
- Anadarco
- ConocoPhillips Alaska Inc.
- Petro Hunt

**Oooguruk**
- Pioneer Natural Resources
- ENI US Operation Co.
Producers, Field Operators, Connectors

- Producers –
  - Provide production estimates to Alyeska each month
  - Lift, Process, and deliver crude oil to TAPS

- 2 Field Operators
  - BPXA
  - ConocoPhillips Alaska, Inc.

- 5 Connections to TAPS at PS 1
  - Sadlerochit OTL
  - Northstar Pipeline Company
  - Kuparuk Pipeline Company
  - Lisburne OTL
  - Endicott Pipeline Company
Supply Chain Example

- Working Interest Owner: **Forest Oil**
- Production Area: **Lisburne**
- Field Operator: **BPXA**
- Oil Shipper: **BP Oil Supply**
- Carrier: **Unocal**
- Marines Shipper: **Polar**
Process Flow

- Working Interest Owner
  - Owns Oil in Ground

- Producer
  - Lift, Process, & Deliver to TAPS

- Oil Shipper
  - WIO, buyer, or custodian

- Carriers/Owners
  - Owns TAPS

- Valdez Marine Terminal
  - Scheduled to Load & Remove Ballast H2O
  - Oil Measured, Stored & Loaded

- Marine Shippers
- Refinery Connection Facilities
  - Feeds Refineries and Residual taken back

"Looking Ahead"
Services

• Operations Control Center
  Monitor & control oil movement, pipeline and at the Valdez Marine Terminal 24 hours/day; Government Hill facility

• Scheduling

• Measurement

• Lab & Analytical Services
Pump Stations

- 11 original pump stations
- 2 stations converted to electric drivers (SR stations)
- 2 stations running legacy mainline units
- 1 relief station
- 5 pump stations off line
- 1 station in standby
- Capable of expansion to carry additional crude
Valdez Marine Terminal

- 1,000 acres
- 18 storage tanks, 14 in use today
- 9.18 million barrels of total storage, 7.25 million today
- Two active loading berths with vapor recovery systems
- Ballast water treatment
- 19,000+ tankers loaded since startup
- Tankers escorted 70 miles
Ship Escort Response Vessel System (SERVS)

- Established July 20, 1989
- Aides in safe navigation
- Develops and exercises oil spill response systems
- 75,000 barrels/hour recovery capacity
- 10 escort, docking and response tugs
- 42 miles of boom, 100 skimmers
- 350 contracted fishing vessels
- Prepositioned response equipment