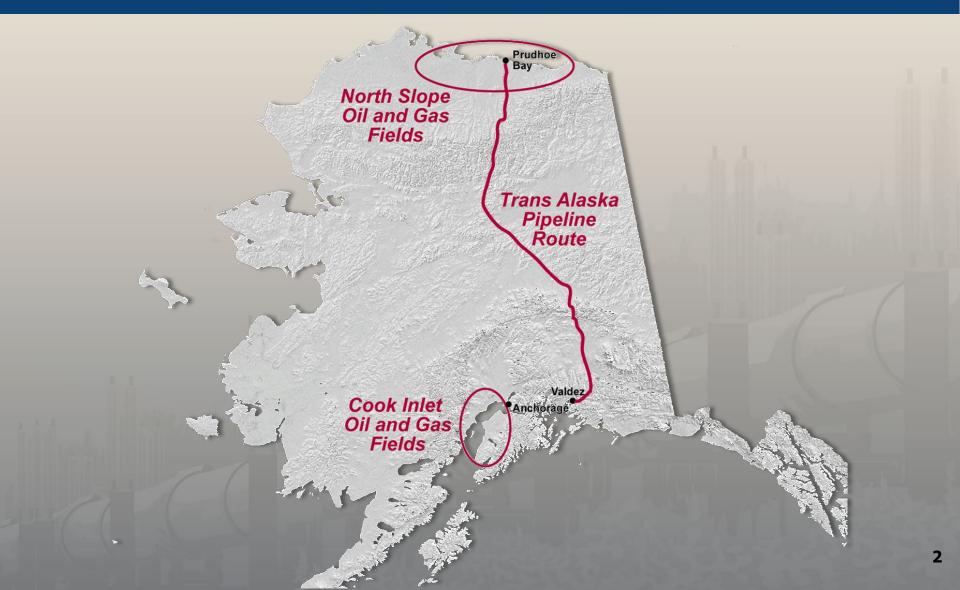


# Fifty Years in Alaska Without the Trans Alaska Pipeline

**Dave Norton and Scott Goldsmith** 

### Alaska's Oil and Gas Resources





The working conditions on the North Slope are the worst in the world. The vicious cold is a constant and relentless enemy. A simple mechanical repair job which is child's play in easier climates becomes a mountainous task taking hours in a shrieking 60 miles an hour gale with the effective temperature down to minus 100 deg F. The men work clumsily and slowly, cocooned in layers of protective clothing with the ever-present danger of frostbite striking exposed skin in less than 30 seconds. To replace the energy and bodily heat they use up, the men consume vast quantities of food — the equivalent of your Christmas dinner several times a day.

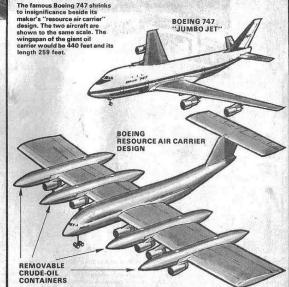
it not doing so?

It is remaining where it is because the answer has not been found to a very thorny problem. In hot or temperate lands, crude oil is already hot and free flowing from the friction and pressure of its rise from the depths when it gushes out of the ground in the pipeline. It is boosted along the pipe by pumping stations, and friction keeps it

But in Alaska there is a problem. Beneath the thin green layer of tundra in the warm season, there lies a permanently frozen band of earth called the "permafrost" layer - which literally holds the land together. If this layer is exposed to

It would be powered by twelve 50,000 lbs. thrust jet engines and would lift about 8,000 barrels of crude oil in four wing-mounted containers. The containers would be loaded and unloaded by giant cranes giving a time from landing to the next take-off of about six minutes. Boeing estimate that a fleet of 40 such aircraft, each making eight daily trips, could shift two million barrels of crude oil a day. A real flying

Possibly, some of this could find its way to your central heating system. Perhaps on a future Christmas Day, the warmth you enjoy will have come from the frozen wastes of icy Alaska.



### **Arctic Oil Tankers if No TAPS**



# DIRECT PETROLEUM CONTRIBUTION TO ALASKA ECONOMY (2023)

EXPLORATION,
DEVELOPMENT, AND
PRODUCTION

STATE AND LOCAL GOVT REVENUES

- JOBS 36 THOUSAND
- PAYROLL \$3.3 BILLION

- JOBS 33 THOUSAND
- PAYROLL \$2.6 BILLION

**16% OF TOTAL ALASKA JOBS** 

# INDIRECT PETROLEUM CONTRIBUTION TO ALASKA ECONOMY (50 YRs)

- 1. Local oil and gas supply
- 2. PF Dividend
- 3. Govt support BASIC industry
- 4. Govt support enhanced quality of life
- 5. Light business tax burden
- 6. Light HH tax burden
- 7. Less seasonality
- 8. Increase MULTIPLIER size
- 9. More people
- 10. More retirees
- 11. More Federal spending

#### **ALASKA WITHOUT PETROLEUM ???**



- Somewhat more than half as many total jobs
- Half of all jobs dependent on Federal spend (civ&mil)
- BASIC industries smaller(mining, seafood, timber, tourism, air cargo)
- Fewer firms providing business support (wholesale trade, business services, construction, etc.)
- Fewer firms providing goods and services to HH
- Smaller economic MULTIPLIER
- Fewer people

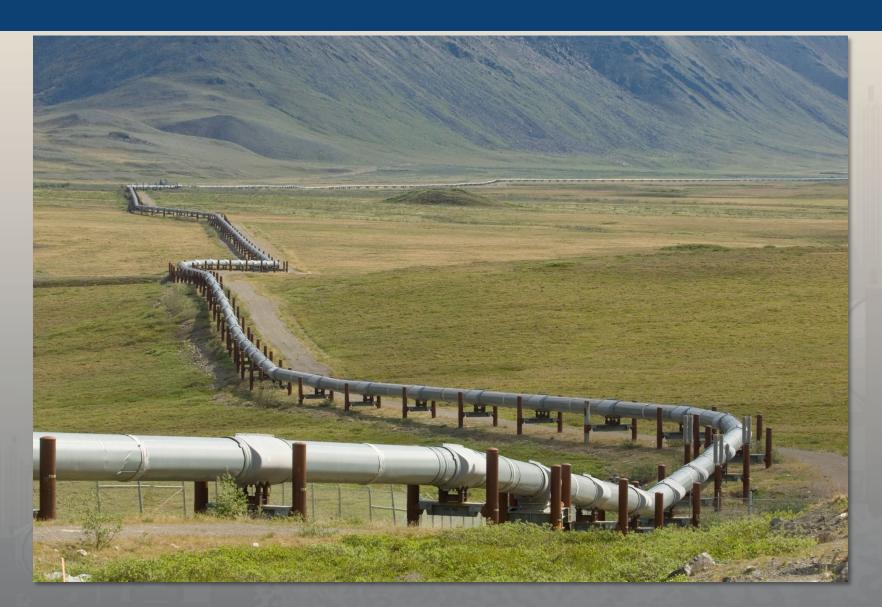






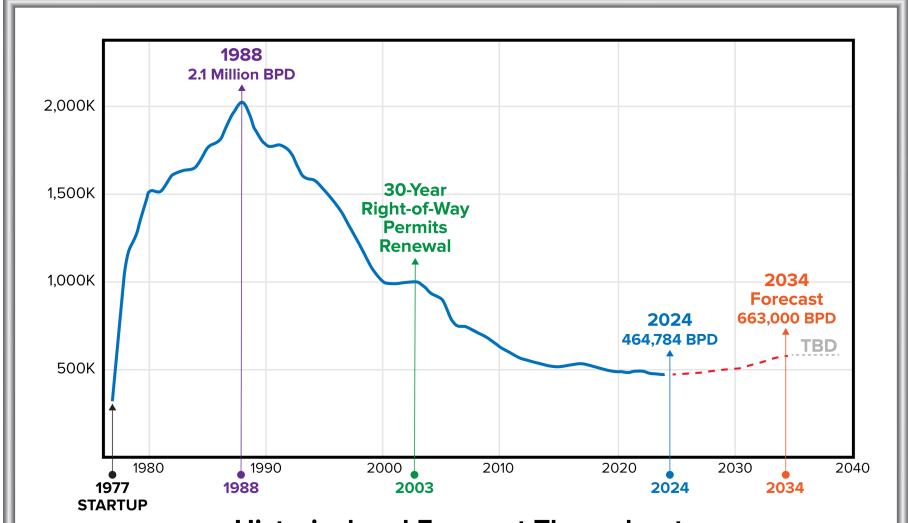


# **Consequences: Positive and Negative**



# **Next 50 Years Imagined**





#### **Historical and Forecast Throughput**

SOURCE: Alyeska Pipeline and Alaska DOR

## **Alaska Official Seals**



