

NORTH SLOPE OVERVIEW

Senator Giessel Working Group Presentation

October 13, 2015

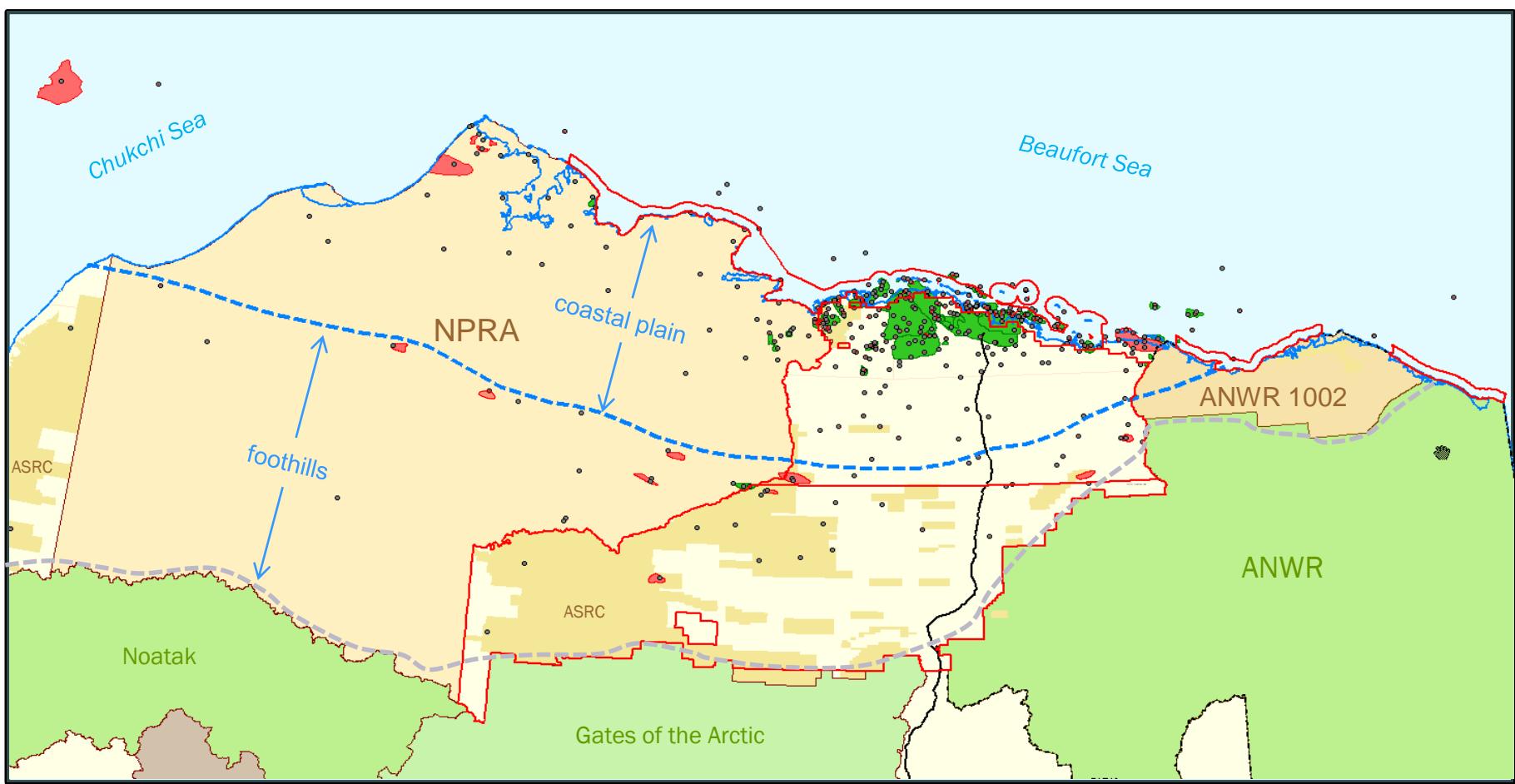
Corri Feige, Director
Alaska Division of Oil and Gas



NORTH SLOPE OVERVIEW

- Resources and Reserves
- Current Activity & New Developments
- Who's Working the North Slope?
- Leasing Activity Trends
- Exploration Incentives & Tax Credit Applications
- Data Submitted Under Credit Programs

NORTH SLOPE RESOURCES OVERVIEW



Red Area – Gas Accumulations

Dark Green Area - Oil Accumulations

Black Dots - Exploration Wells

Red Outlines - State Areawide Lease Sale Boundaries.

Light Green Areas - Permanently Protected Federal Lands.

ARCTIC ALASKA OIL & GAS RESOURCES

Resources

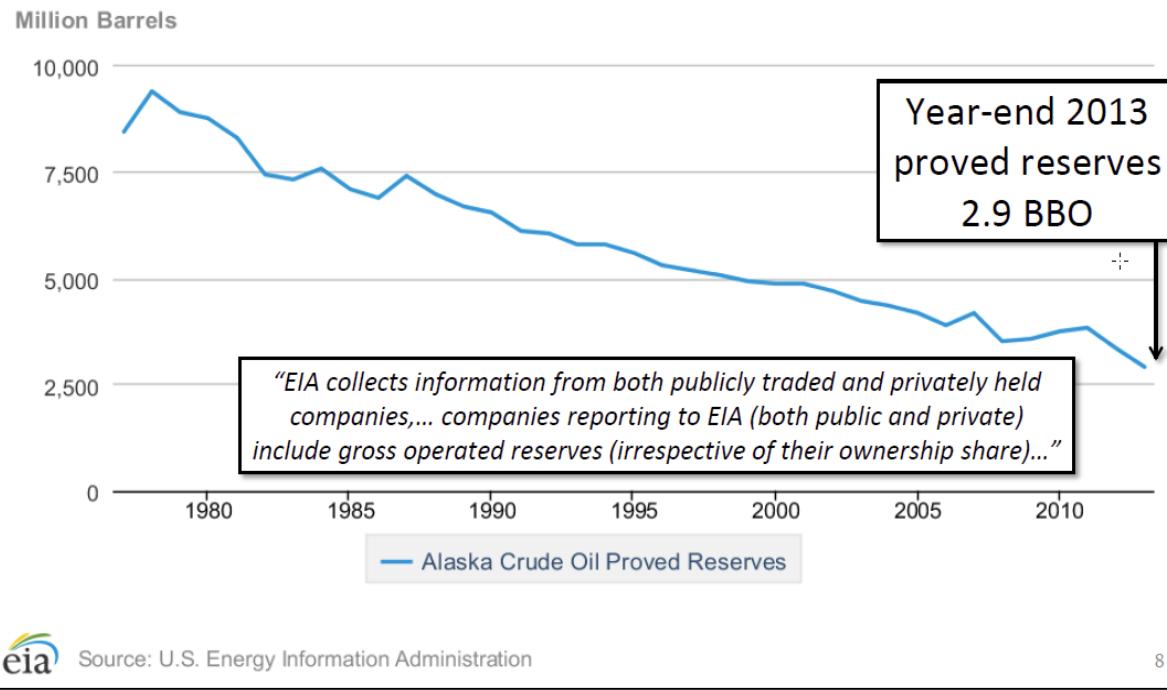
Mean estimates of undiscovered, technically recoverable conventional resources in Arctic Alaska:

- ~40 billion barrels of oil
- ~207 trillion cubic feet of gas

Arctic Alaska	Mean Oil Estimate (Billions of Barrels)	Mean Gas Estimate (Billion Cubic Feet)
Onshore	15,908	98,960
Offshore	23,750	108,180
TOTAL	~40 BBO	~207 TCF

Source: USGS 2014

ARCTIC ALASKA OIL & GAS RESOURCES



Gas Reserves:

- ~ 30 trillion cubic feet of associated gas estimated to be recoverable from producing or developing North Slope fields, mostly at Prudhoe Bay and Point Thomson. Without a pipeline, most of that gas is best described as contingent resource, not reserves.

Oil Reserves:

- The EIA carries ~ 2.9 billion barrels of proved oil reserves statewide in 2013.
- More than 2.8 billion barrels of this is estimated to be on the North Slope (~ 2% is in CI oil fields).

CURRENT ACTIVITY & NEW DEVELOPMENTS

Operations Updates:

- **BP**
 - Prudhoe Bay Unit
 - 54 new wells (46 sidetracks & 8 new) in IPA
- **Caelus Natural Resources**
 - Oooguruk Unit
 - Upgrades to facilities
 - Plans for first Nuna Torok production in 2017
- **Conoco Phillips**
 - Kuparuk Unit
 - Increased oil production from 5.64 to 7.74 MBOP
 - Plans to drill 23 wells during 2015
 - Plans to drill 4 wells in West Sak PA

CURRENT ACTIVITY & NEW DEVELOPMENTS

Operations Updates:

- **Conoco Phillips**
 - Colville River Unit
 - Expected first production from CD5 in late 2015
- **ExxonMobil**
 - Point Thomson Unit
 - Expected completion of Initial Production System in early 2016
 - Anticipated to produce 10,000 barrels of condensate per day with start-up in January 2016
 - Completed 12 inch, 22 mile liquid hydrocarbon pipeline from Point Thomson to Badami Field

CURRENT ACTIVITY & NEW DEVELOPMENTS

Operations Updates:

- **Hilcorp**
 - NorthStar Unit (Federal/State unit)
 - Returned 2 wells to production
 - Milne Point Unit
 - Plans to drill 14 wells 2015 – 2016
- **Repsol**
 - Pikka Unit formed
 - Drilled 3 exploration wells & sidetracked 1 in early 2015
- **ASRC**
 - Placer Unit
 - Expect first exploration well in 2016

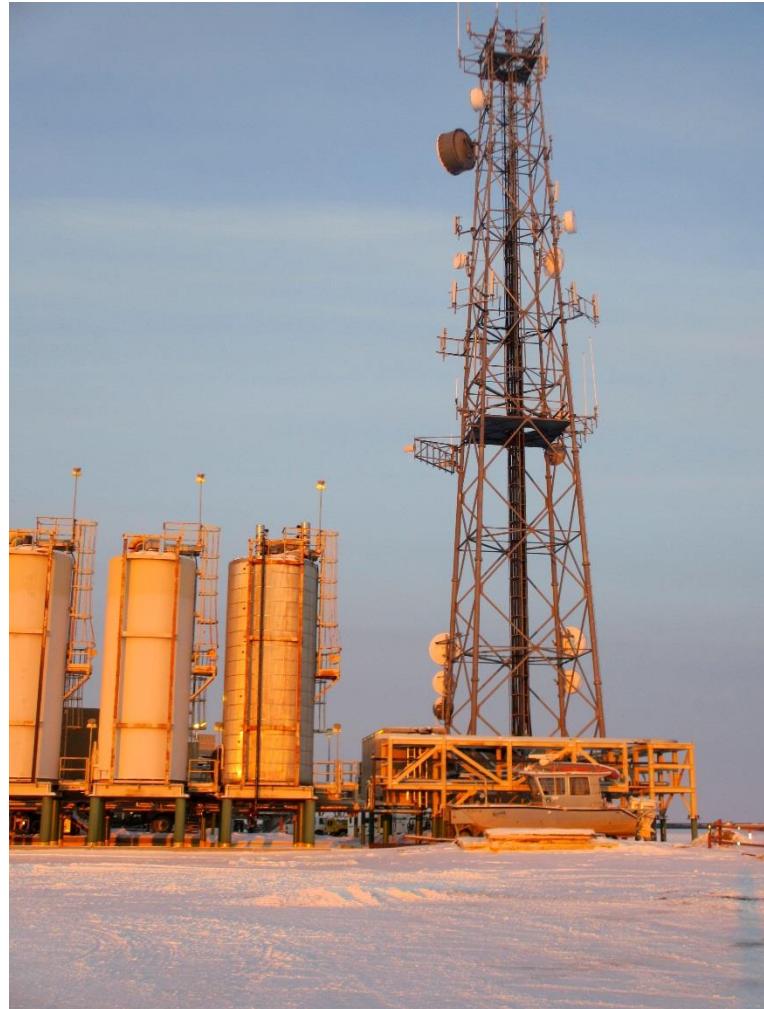
WELLS DRILLED & SEISMIC ACQUIRED

- **New O&G Exploration & Development Wells Drilled 2004-2014**
 - 95 Exploratory Wells and Well Branches
 - 1741 Development & Service Wells and Well Branches
- **2D & 3D Seismic Data Acquired 2004-2014**
 - North Slope:
 - Line Miles 2D (onshore) = ~ 868.78
 - Square Miles 3D (onshore) = ~ 9946.56
 - Outside of North Slope & Cook Inlet:
 - Line Miles 2D (onshore) = ~ 1217.68
 - Square Miles 3D (onshore) = ~ 339.99

WHO'S WORKING NORTH SLOPE?

- **Large Majors:**

- Anadarko Petroleum Corporation
- BP Exploration, Inc.
- Chevron USA, Inc.
- ConocoPhillips Alaska
- Exxon Mobil Corporation
- Repsol E&P USA, Inc.
- Shell Offshore, Inc.



WHO'S WORKING NORTH SLOPE?

- **Mid-Sized Independents:**

- 70 & 148 LLC
- Apache Alaska Corp
- Caelus Natural Resources Alaska LLC
- ENI Petroleum US LLC
- Hilcorp Alaska, LLC



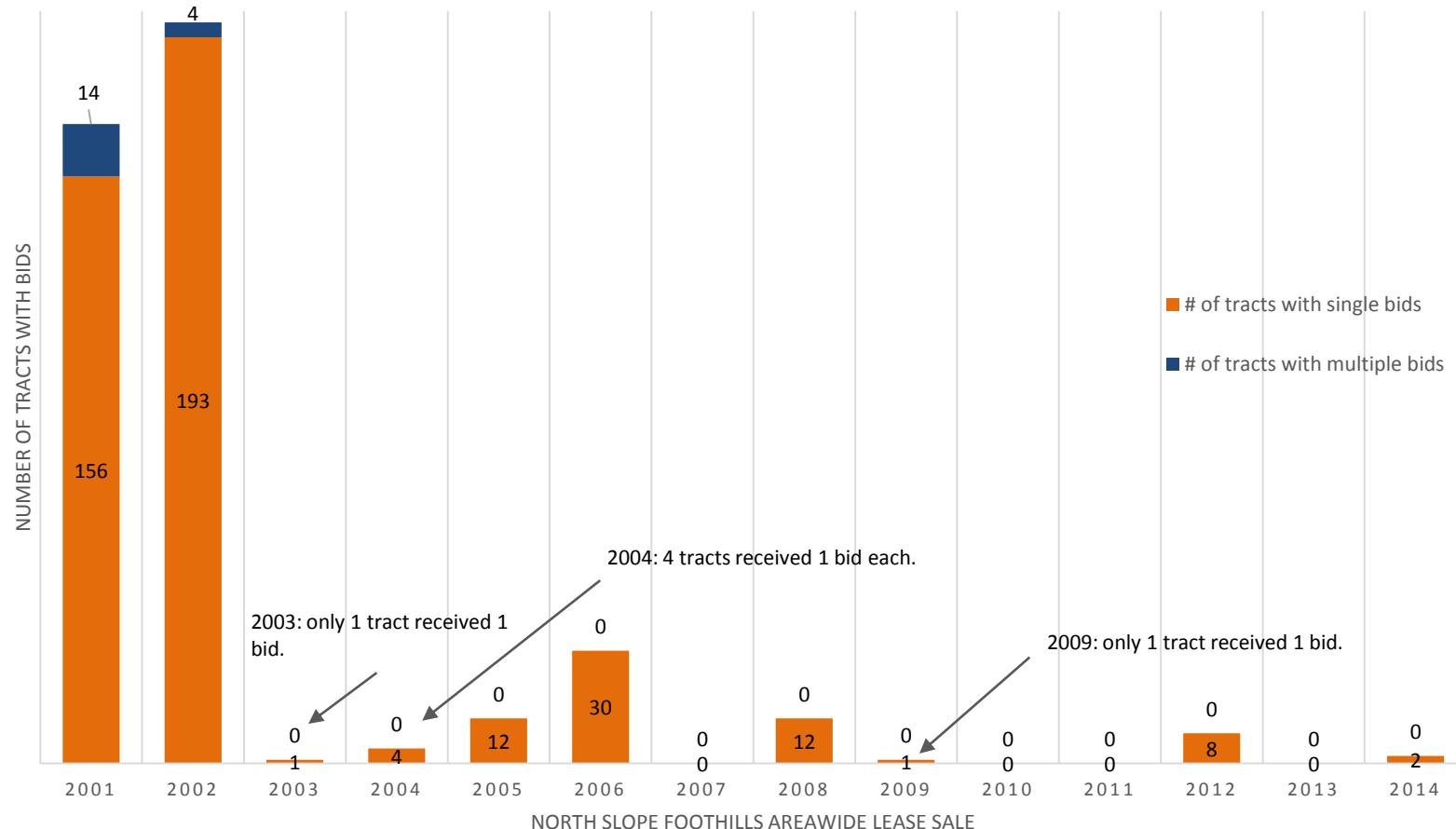
WHO'S WORKING NORTH SLOPE?

■ Small Independents:

- **Accumulate Energy Alaska, Inc.**
- Alaska, LLC
- Alaskan Crude Corp.
- ASRC Exploration LLC
- Aubris Resources, LP
- AVCG, LLC
- BG Alaska E&P, Inc.
- Brooks Range Development Corporation
- Burgundy Xploration LLC
- Caracol Petroleum LLC
- Chap-KDL, Ltd.
- Colt Alaska LLC
- Dewline Petroleum LLC
- Donkel Oil & Gas, LLC
- Eastland Property and Minerals
- GMT Exploration Company LLC
- Great Bear Petroleum Ventures
- MEP Alaska, LLC
- Mustang Operations Center 1, LLC
- NordAq Energy Inc.
- Pacific Lighting Gas Development
- Petro-Canada (Alaska) Inc.
- Petro-Hunt, LLC
- Pinta Real Development, LLC
- Rampart Alaska LLC
- Ramshorn Investments, Inc.
- Realeza Del Spear Limited Partnership
- Red Technology Alliance, LLC
- Renaissance Umiat, LLC
- Royale Energy
- Samson Offshore, LLC
- Savant Alaska, LLC
- Sunlight International Inc.
- Sun-West Oil & Gas, Inc.
- SWEPI Limited Partnership
- The Eastland Oil Company
- TP North Slope Development, LLC
- Transworld Oil & Gas Ltd.
- Ultrastar Exploration LLC
- URSA Major Holdings LLC
- Woodbine Petroleum, Inc.
- Woodstone Resources, LLC

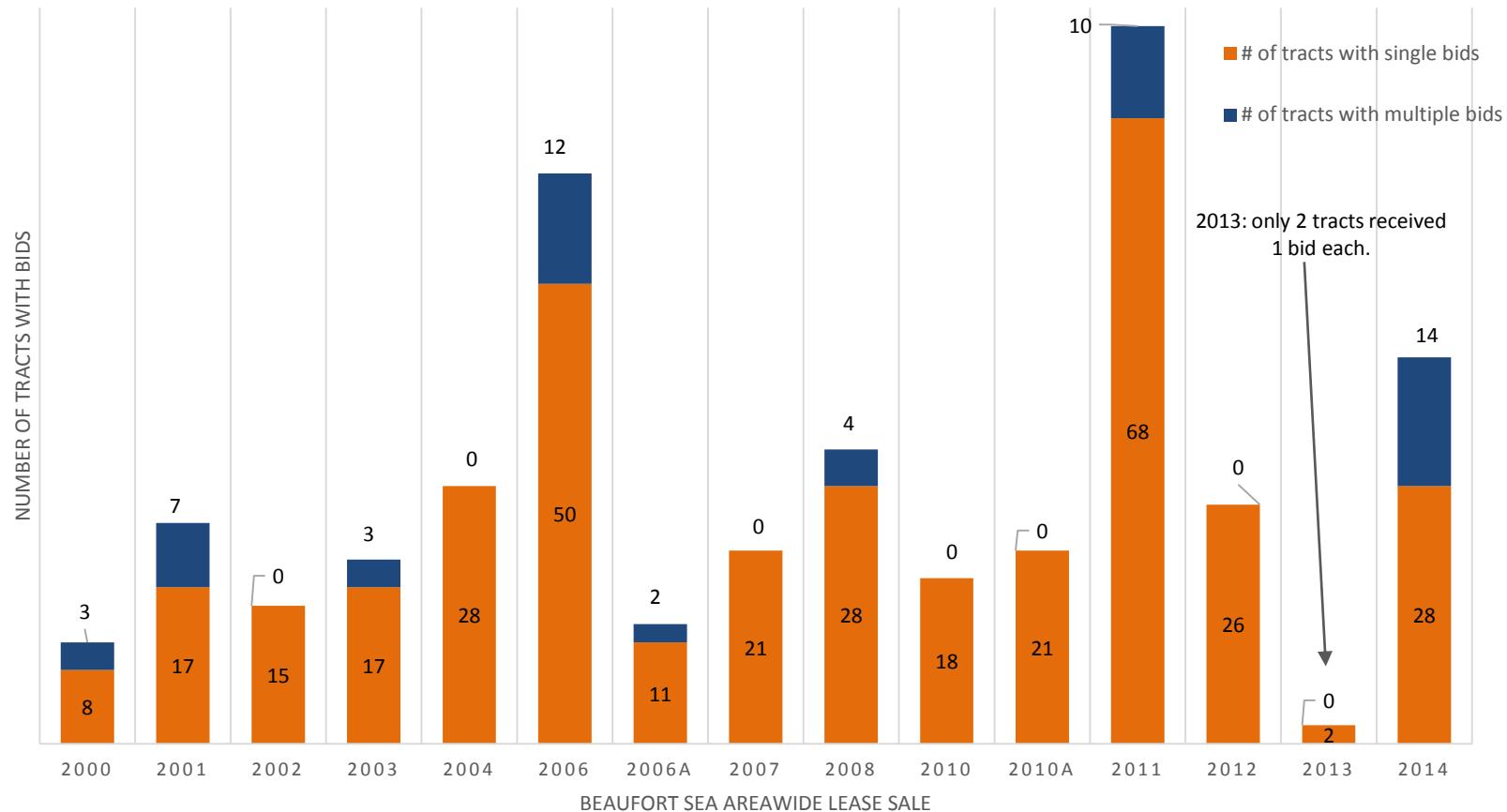
LEASING ACTIVITY TRENDS

NORTH SLOPE FOOTHILLS AREAWIDE LEASE SALE RESULTS: NUMBER OF TRACTS THAT RECEIVED BIDS



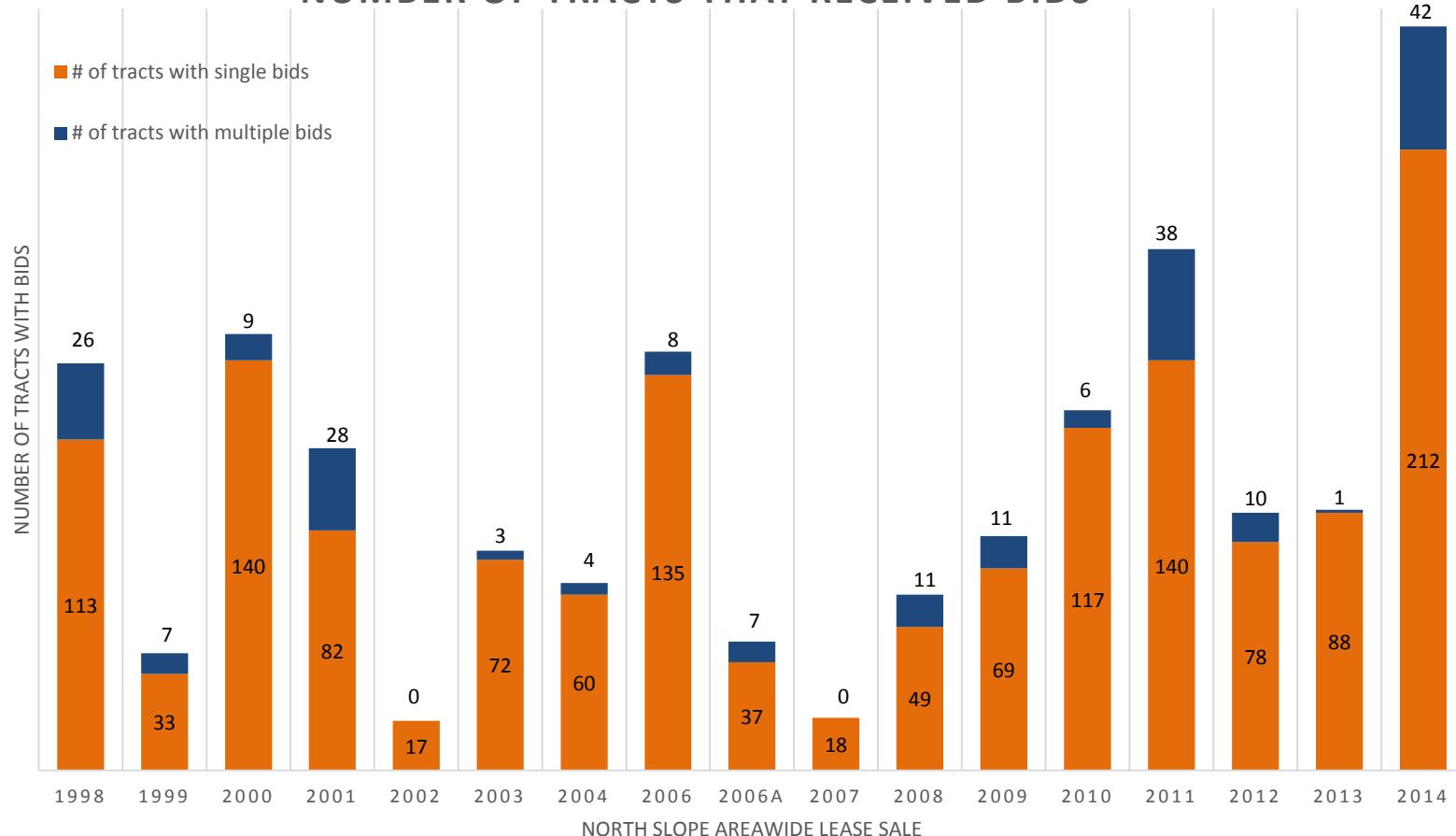
LEASING ACTIVITY TRENDS

BEAUFORT SEA AREAWIDE LEASE SALE RESULTS: NUMBER OF TRACTS THAT RECEIVED BIDS



LEASING ACTIVITY TRENDS

NORTH SLOPE AREAWIDE LEASE SALE RESULTS: NUMBER OF TRACTS THAT RECEIVED BIDS



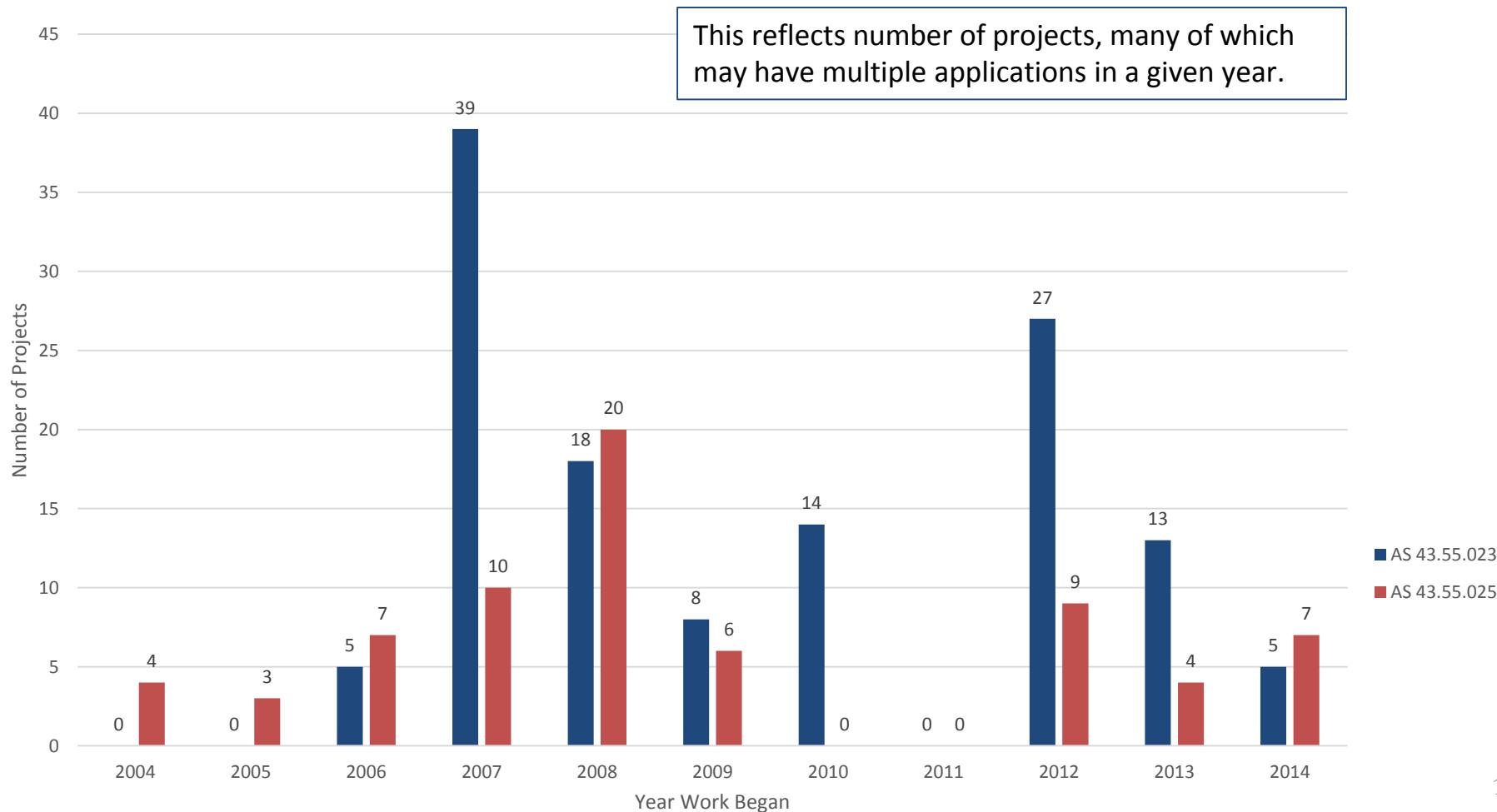
EXPLORATION INCENTIVES & TAX CREDIT APPLICATIONS – DNR

- Credits AS 43.55.023(a)(2); AS 43.55.023(l)(2); AS 43.55.025
- Data submittal 30 days after completion of seismic or geophysical data processing, completion of well drilling or filing of a claim for credit, whichever is latest
- Well Data
 - Released 24 months after filing
- Seismic or Other Geophysical Data
 - Released 10 years after filing



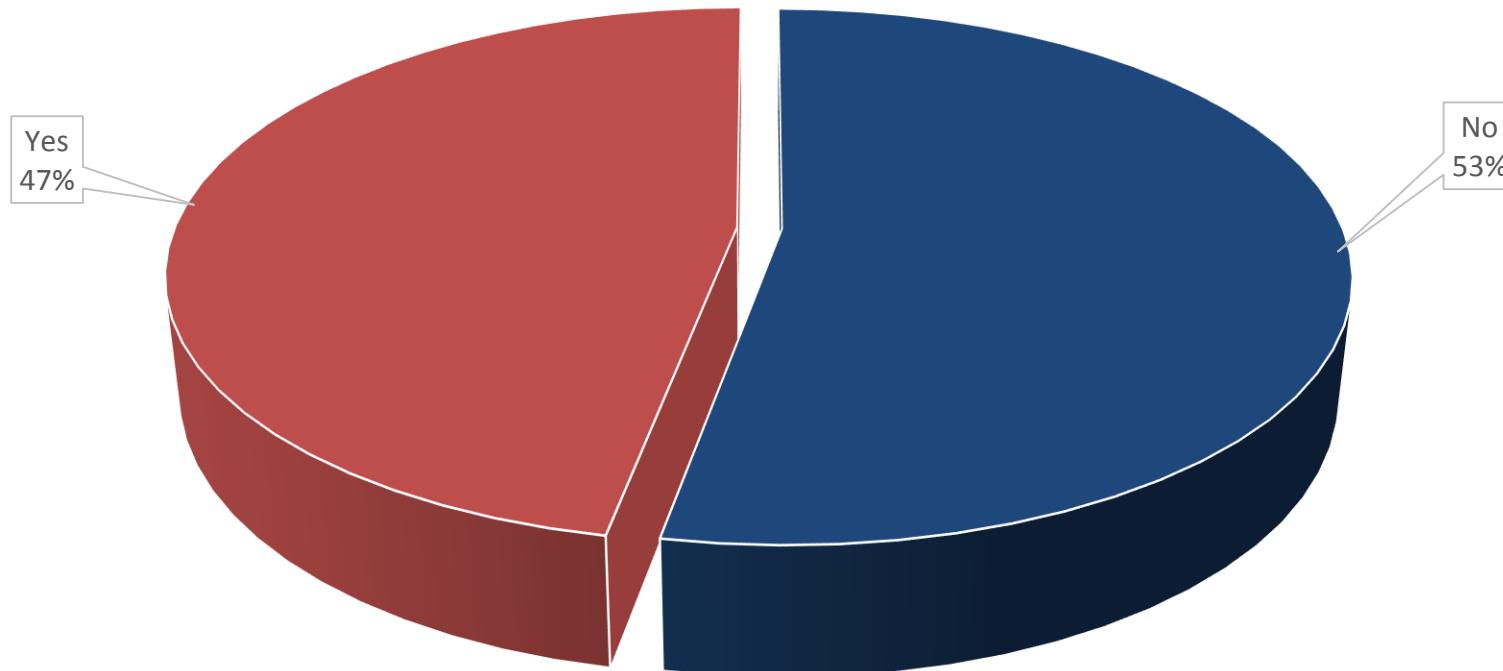
CREDITS BY APPLICATION TYPE

AS 43.55.023 & AS 43.55.025 EXPLORATION PROJECTS



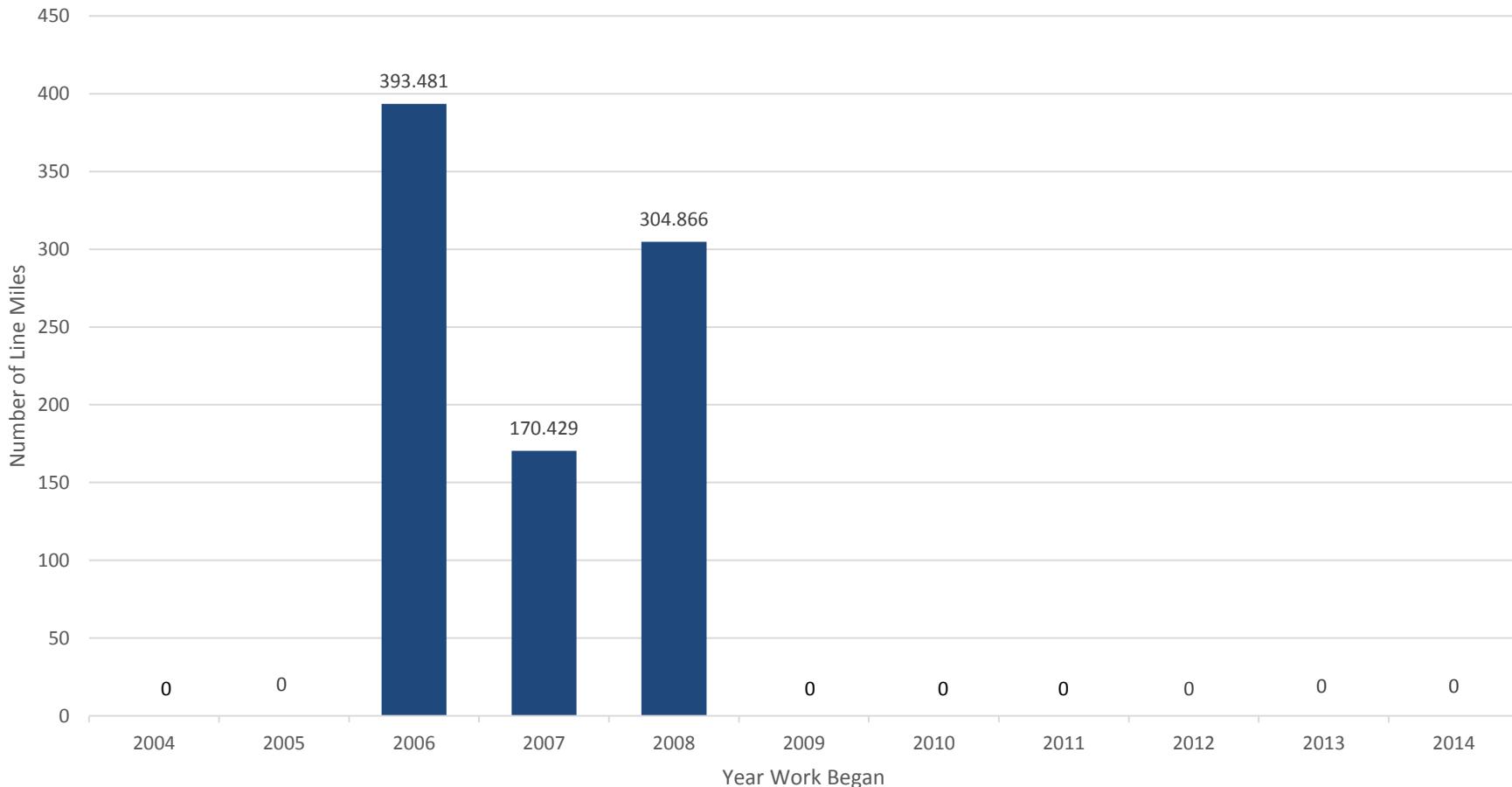
DATA RECEIVED

AS 43.55.023 & AS 43.55.025 EXPLORATION PROJECTS NORTH SLOPE DATA
RECEIVED IN EXCESS OF DOG LEASE AND PERMIT REQUIREMENTS



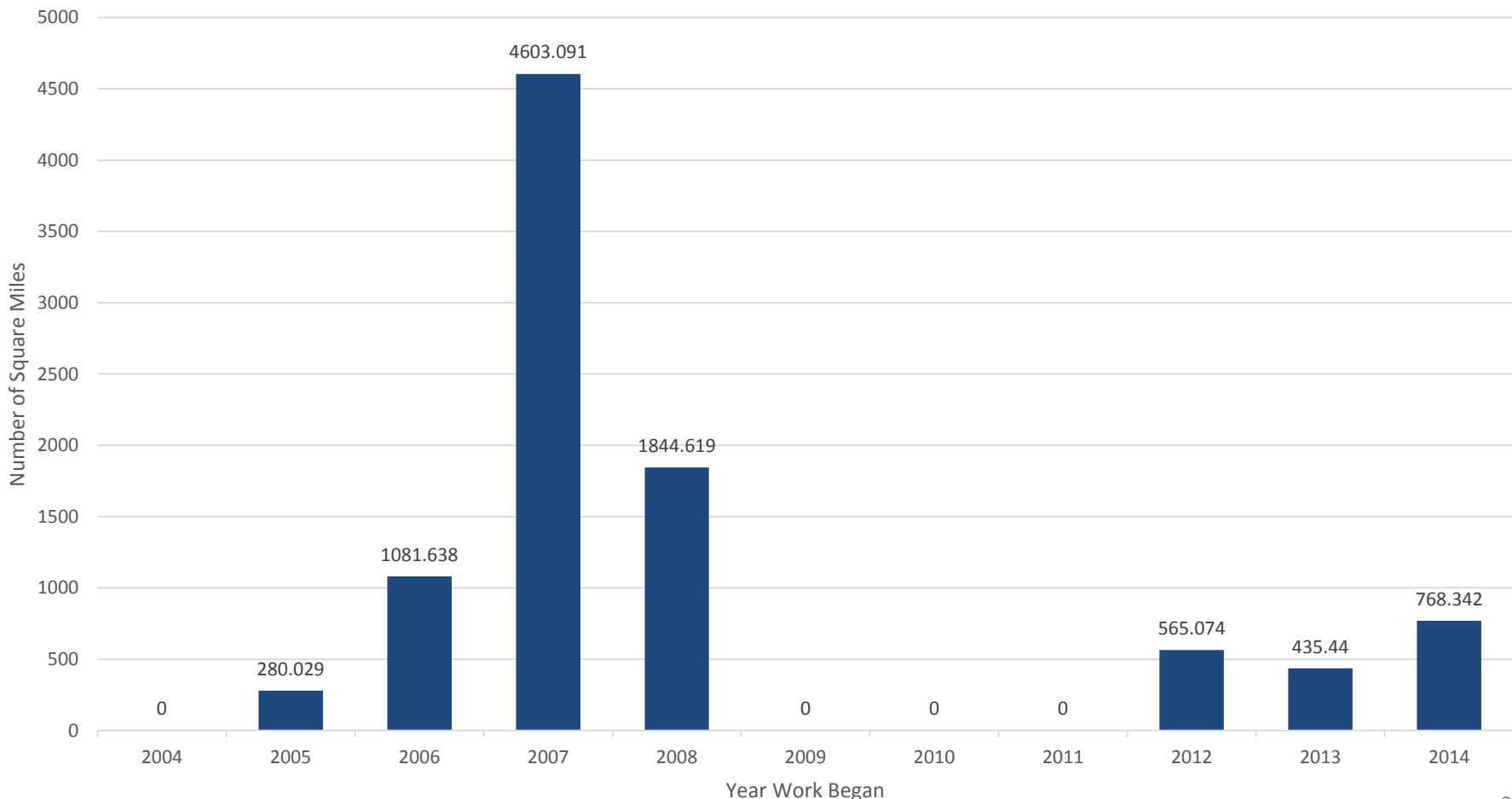
CREDIT DATA - 2D SEISMIC

AS 43.55.023 & AS 43.55.025 EXPLORATION PROJECTS NORTH SLOPE - LINE MILES ACQUIRED



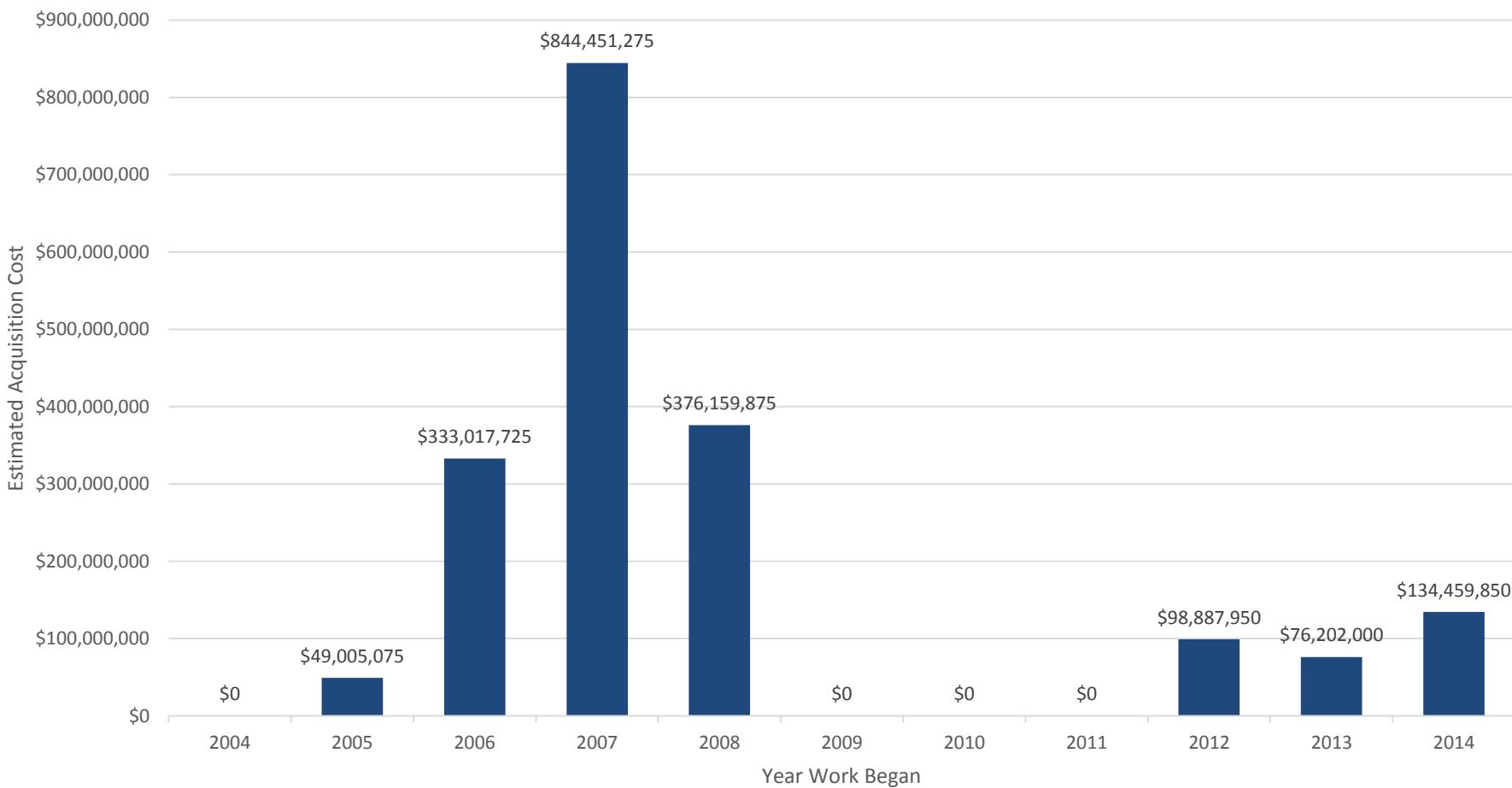
CREDIT DATA - 3D SEISMIC

AS 43.55.023 & AS 43.55.025 EXPLORATION PROJECTS NORTH SLOPE - SQUARE MILES ACQUIRED



ACQUISITION COST OF SEISMIC DATA

AS 43.55.023 & AS 43.55.025 EXPLORATION PROJECTS NORTH SLOPE ESTIMATED ACQUISITION COST OF SEISMIC CREDIT DATA



QUESTIONS?



THANK YOU!



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