

Understanding the Production Forecast

An Update Based on the Spring 2014 Forecast

April 7, 2014

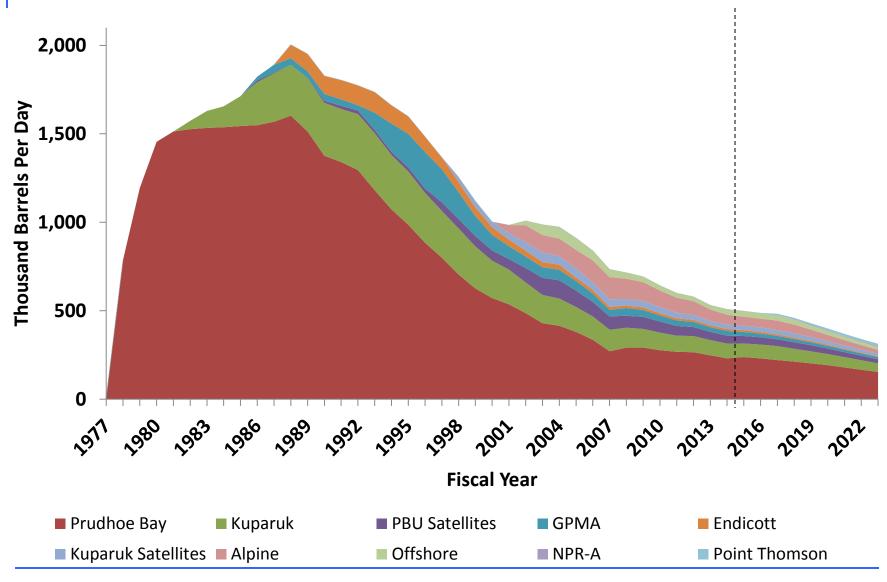
Department of Revenue Michael Pawlowski & Bruce Tangeman Deputy Commissioners Alaska Department of Revenue

Production Forecast and Methodology

An Update Based on the Spring 2014 Forecast

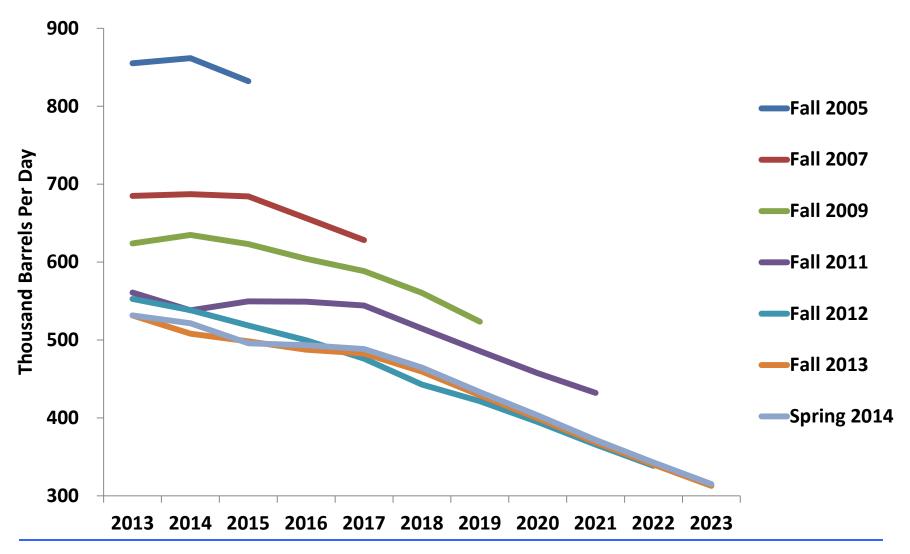


PRODUCTION HISTORY AND FORECAST



Source: Department of Revenue

ANS OIL PRODUCTION FORECASTS WHY THE DEPARTMENT OF REVENUE REVISED THE METHODOLOGY



Source: Department of Revenue - Revenue Sources Books Fall 2005-2013, 2014 Spring Update

ANS OIL PRODUCTION FORECAST

Currently Producing:

• Oil from wells that are in production and following typical reservoir engineering optimization without major investment.

Under Development (UD):

- Oil from projects that will add incremental oil to existing fields or will bring new fields into production.
- Project must have senior management approval and be allocated funds in the company's budget.

• Under Evaluation (UE):

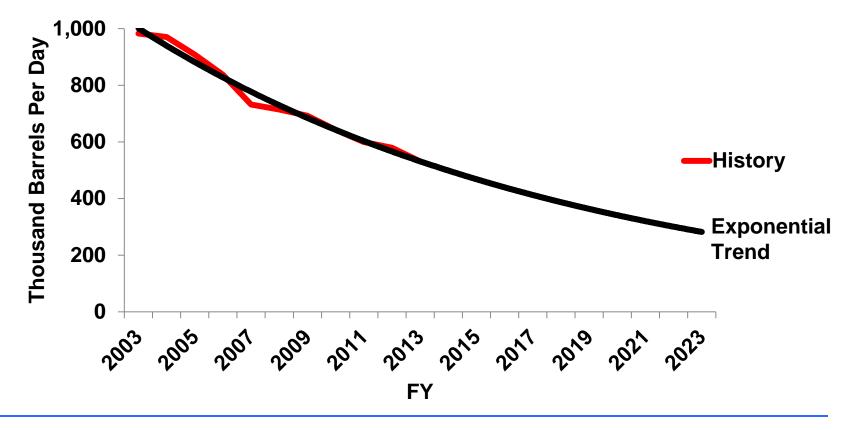
- Oil from projects that are likely to occur in the future, but have not met the requirements of the previous category.
- Requires that oil reserves are known and recovery is technically possible with current technology.
- Under Development + Under Evaluation = "New Oil"

REVISIONS TO THE ANS OIL PRODUCTION FORECAST ADOPTED IN THE FALL 2012 FORECAST

- "Currently Producing" oil <u>was not</u> risked.
 - Engineering assessment based on actual production data
- The "New Oil" portion of the Forecast was adjusted for risks.
 - Accounts for uncertainty in subsurface conditions and risk of delay
- The "Under Evaluation" portion of the Forecast was risked at a greater rate than "Under Development".
 - Accounts for greater uncertainty in subsurface conditions and higher risk of delay

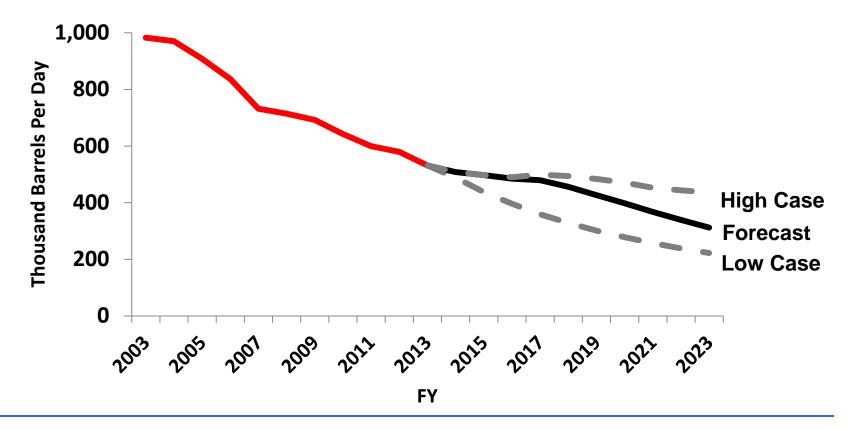
ANS OIL PRODUCTION - ACTUALS & FORECAST

	2006	2007	2008	2009	2010	2011	2012	2013	2014 Forecast
Production		732.2							
Decline Rate	-7.8%	-12.5%	-2.4%	-3.0%	-7.2%	-6.6%	-3.4%	-8.2%	-1.8%



ANS OIL PRODUCTION - ACTUALS & FORECAST

	2006	2007	2008	2009	2010	2011	2012	2013	2014 Forecast
Production	837.1	732.2	714.4	692.7	642.5	599.9	579.4	531.6	521.8
Decline Rate	-7.8%	-12.5%	-2.4%	-3.0%	-7.2%	-6.6%	-3.4%	-8.2%	-1.8%



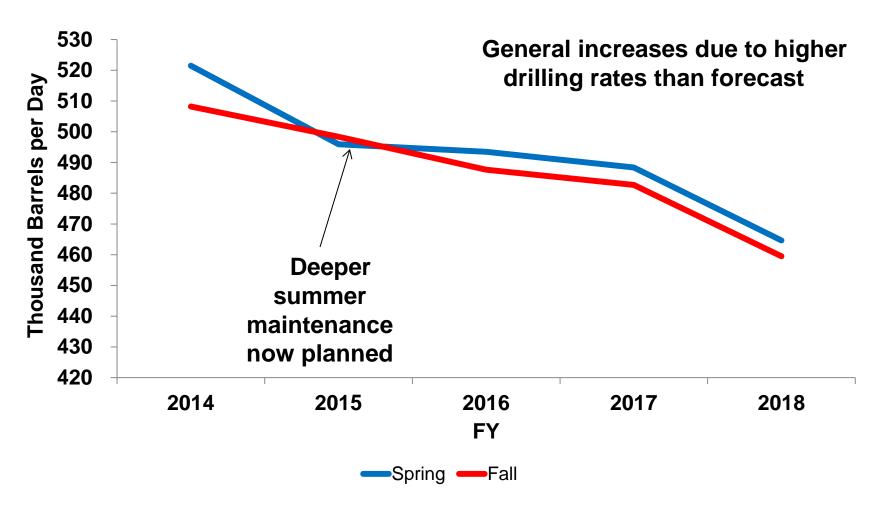
WHAT'S IN THE FORECAST?

- In order to be included, a project must:
 - ➤ Have well data confirming reservoir
 - ➤ Have a company actively pursuing development
- > Projects are "under development" if:
 - A company has partner alignment and/or senior management approval
 - The project has been allocated funds in the company budget
- > Projects are "under evaluation" if:
 - The resource is known and being pursued, but financial hurdles have not been met
- "Under Evaluation" projects carry additional risk of delay or abandonment
 - Therefore, receive a greater risk adjustment

WHAT'S NOT IN THE FORECAST

- Undiscovered resources
 - ➤ Up to 4 billion in Central North Slope
 - Some exploration projects remain in this category after an announced find until well data is available
- Technologically challenged oil
 - Heavy, Viscous, and Shale Oil
 - Combined estimates exceed 30 billion barrels
- Regulatory burdened or otherwise difficult
 - > ANWR, OCS
 - Potentially over 30 billion barrels

SPRING ANS PRODUCTION FORECAST ADJUSTMENTS

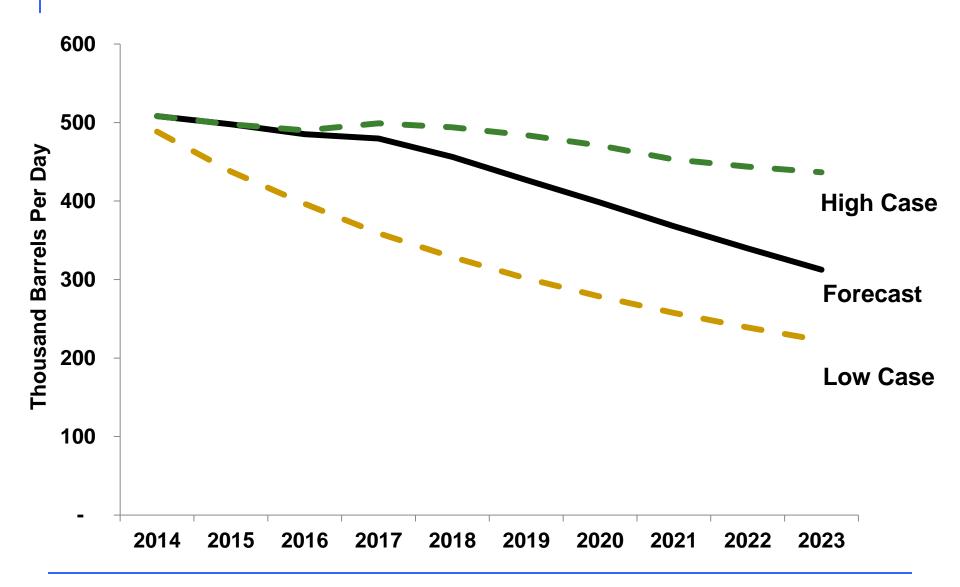


A more comprehensive review of company activity will be conducted in the Fall

WHERE'S THE PRODUCTION?

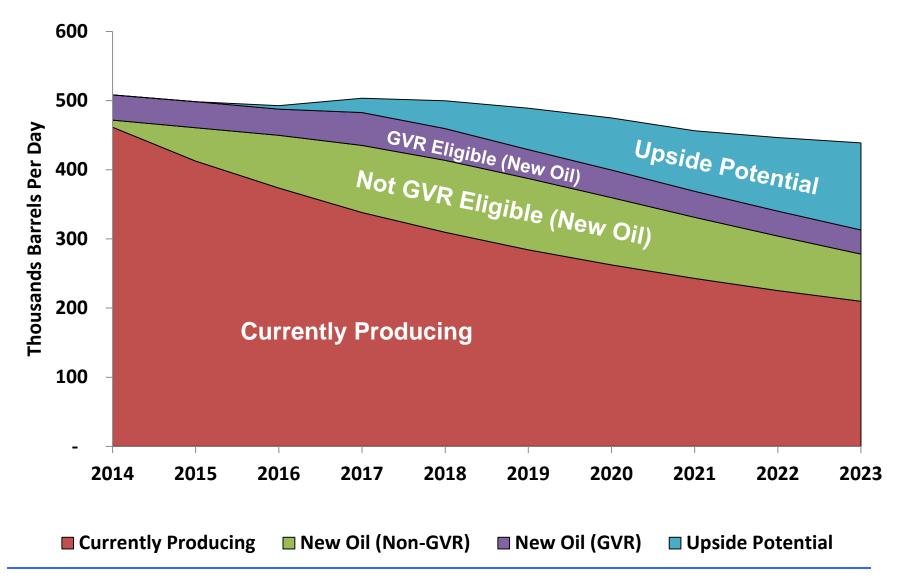
- Future production varies greatly based on projects currently under development or evaluation.
- The potential for significant production increases exist.
 - Forecasting it will occur is not prudent.
 - Revenues are projected as sufficient levels of certainty are obtained.
 - Likelihood of development increases with better economic conditions (price, cost, taxes, etc.).
- Many things can cause a project to be delayed or abandoned.

ANS PRODUCTION FORECAST



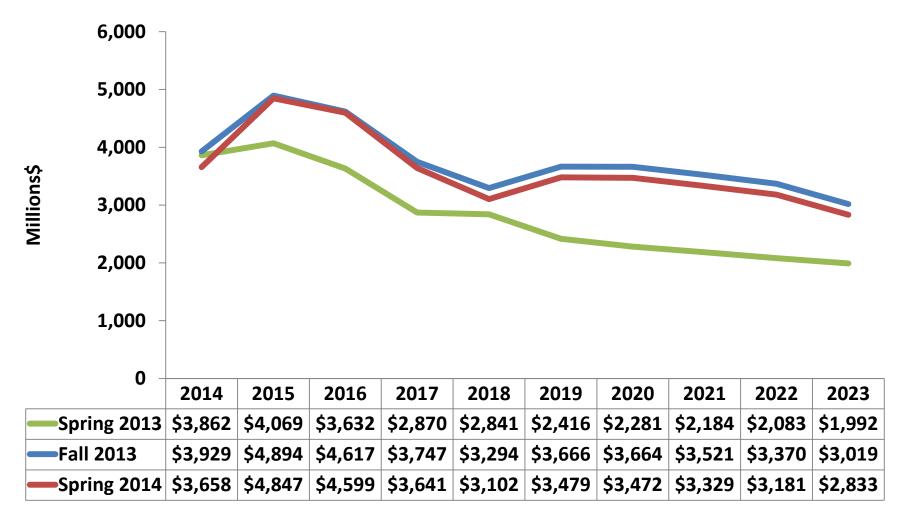


ANS PRODUCTION FORECAST





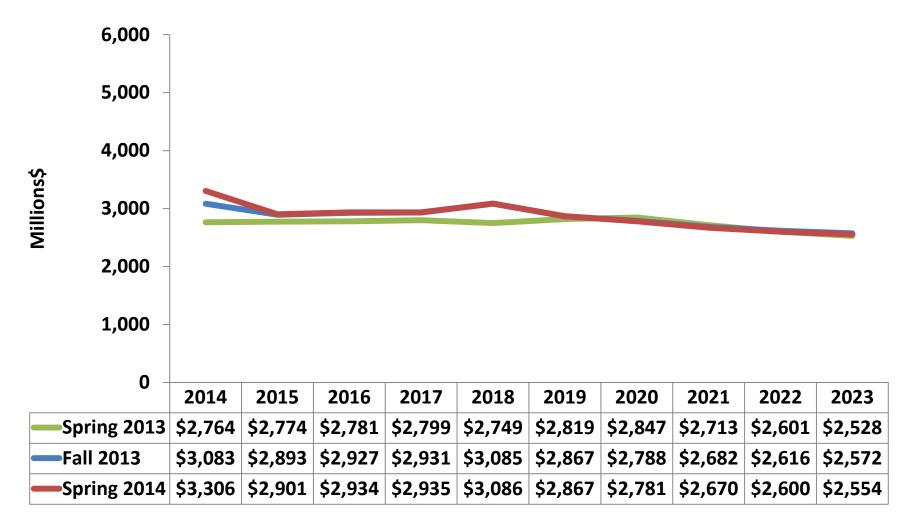
NORTH SLOPE LEASE EXPENDITURE FORECAST CHANGE TOTAL NORTH SLOPE CAPEX



Note: These estimates include lease expenditures by companies that are not expected to have a tax liability.



NORTH SLOPE LEASE EXPENDITURE FORECAST CHANGE TOTAL NORTH SLOPE OPEX



Note: These estimates include lease expenditures by companies that are not expected to have a tax liability.

THANK YOU

Please find our contact information below:

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