Armstrong for Alaska: Nanushuk

Ed Kerr Director Armstrong Energy, LLC

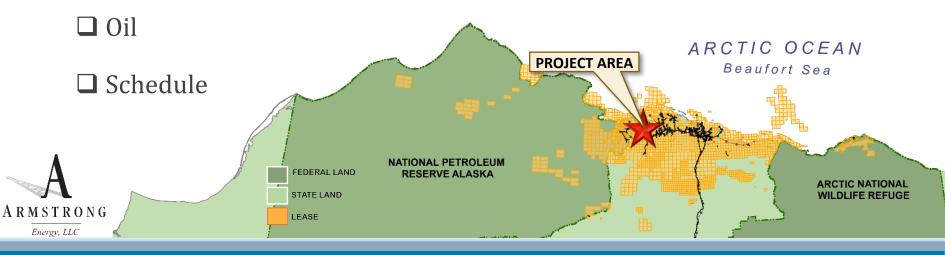
Resource Development Council 37th Annual Alaska Resources Conference November 17, 2016



1

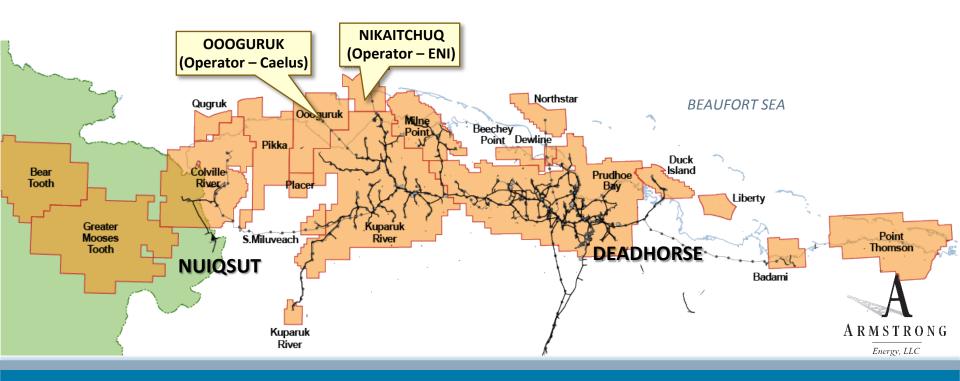
Armstrong for Alaska

- Armstrong in Alaska
- Nanushuk Development
 - Lands
 - □ Infrastructure



Armstrong in Alaska

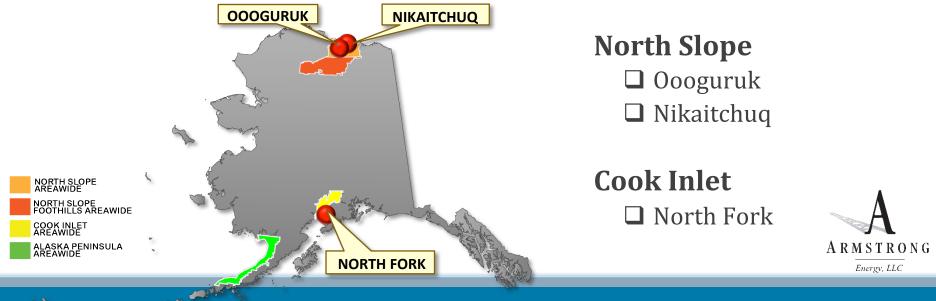
- > Armstrong
- ➢ Leasing
- > Exploration Opportunities, <u>Partnerships and Strategy</u>



Armstrong in Alaska

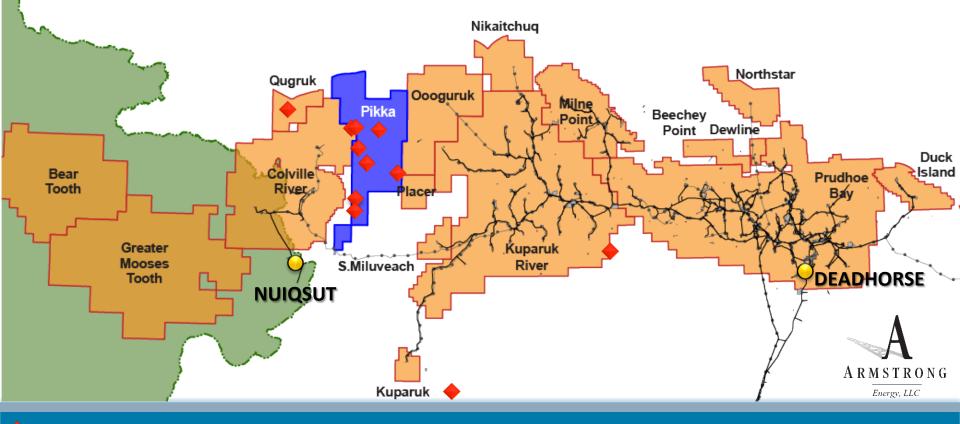
Commitment to Infrastructure Development and Operations





Nanushuk Development

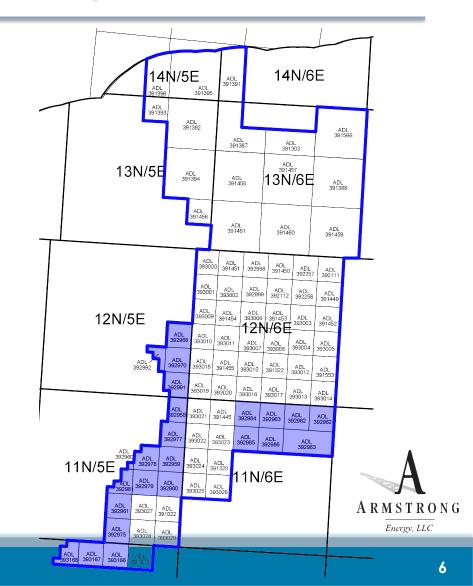
- Acquired area leases beginning in 2008
- Aggressive exploration program



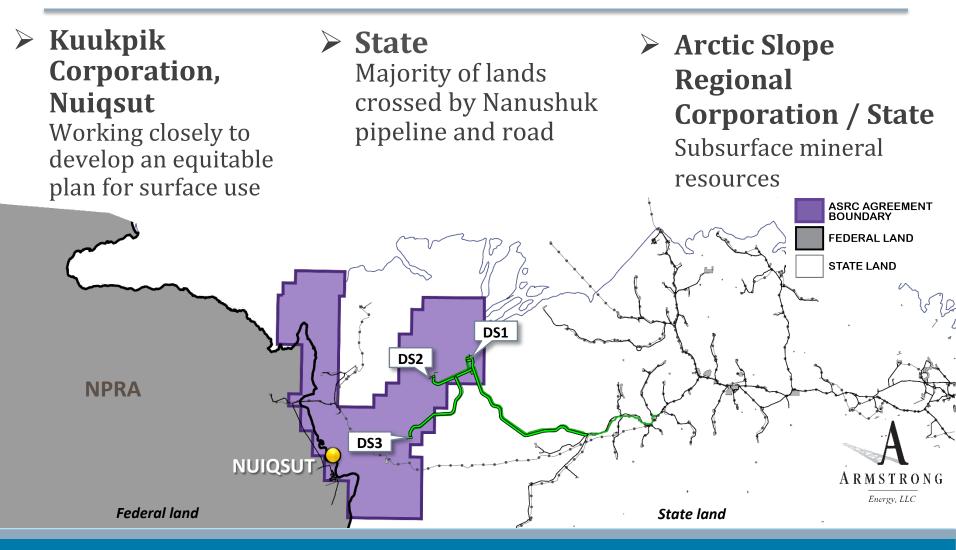
Nanushuk Development

Pikka Unit

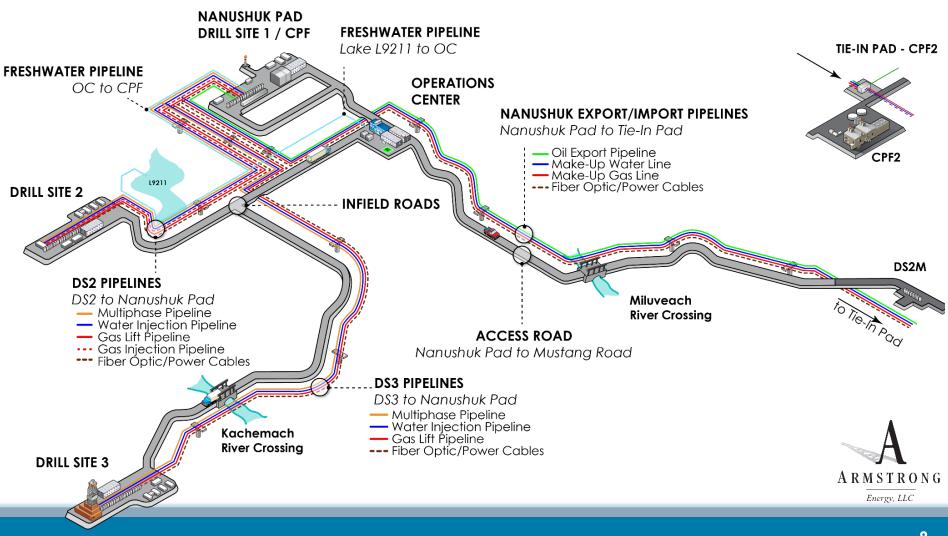
- 63,304 acre unit approved by State of Alaska and Arctic Slope Regional Corporation (ASRC) effective June 01, 2015
- SE of the east channel of the Colville River within the North Slope Borough
- 7 miles northeast of Nuiqsut



Nanushuk Development: Lands



Nanushuk Development: Infrastructure



Nanushuk Development: Oil

- Nanushuk and Alpine C targets
- 120,000 bbl/pd production and new oil into TAPS at crucial time
- > Approximately 3.25 BB barrels in place
- > 25% to 50% of barrels recoverable
- Predominant percentage of Oil at 30 degree° API gravity with some oil at 38 degree gravity.
- 750MMBO of recoverable reserves from these 3 pads and this may be repeatable.



Proposed Nanushuk Development: Schedule

Year(s)	Activity
2015-2018	Environmental Impact Statement <u>www.nanushukeis.com</u>
2017-2018	 Initiate regional and local permitting processes Selection of the engineering company to design the CPF Construction of camp to accommodate 600 people
2019-2021	 Construction of Sealift and truckable modules for CPF Civil works/gravel operations Pipeline work
2020-2021	DrillingSealift Delivery
2022	 First Production
-	 CPF modules construction; Permitting; Civil/Gravel operations; Pipeline work; First production; A R M ST R
2015 2016	2017 2018 2019 2020 2021 2022
EIS	Drilling

Armstrong Benefits Alaska



COMMUNITY

- Sports, arts, traditional and cultural activities and celebrations
- STEM activities and programs

JOBS

- Construction, drilling and operations
- Local hire / contracts

TAXES, REVENUES, FEES

- Corporate, income, property regional taxes
- Royalties, rents and interest
- Fees



What stops Alaska's future?

TaxesRegulatory uncertainty



Quotes

John Quiton, Royal Air Force Aviator and George Cross Medal recipient.

"Politicians are people who, when they see light at the end of the tunnel, go out and buy some more tunnel."



Quotes

Lyndon Baines Johnson, 36th President

"Light at the end of the tunnel? We don't even have a tunnel; we don't even know where the tunnel is."



THANK YOU



