# Armstrong for Alaska: Nanushuk

# Ed Kerr Director Armstrong Energy, LLC

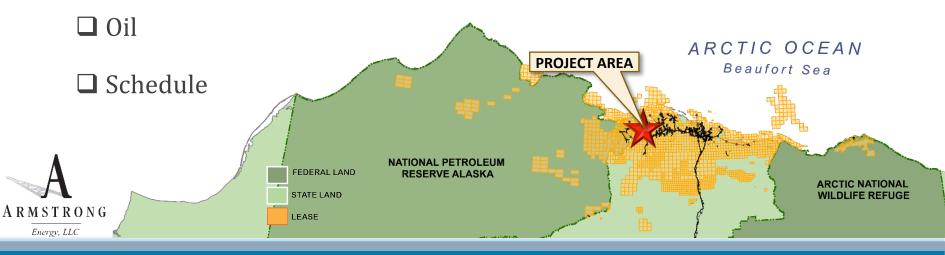
Resource Development Council 37th Annual Alaska Resources Conference November 17, 2016



1

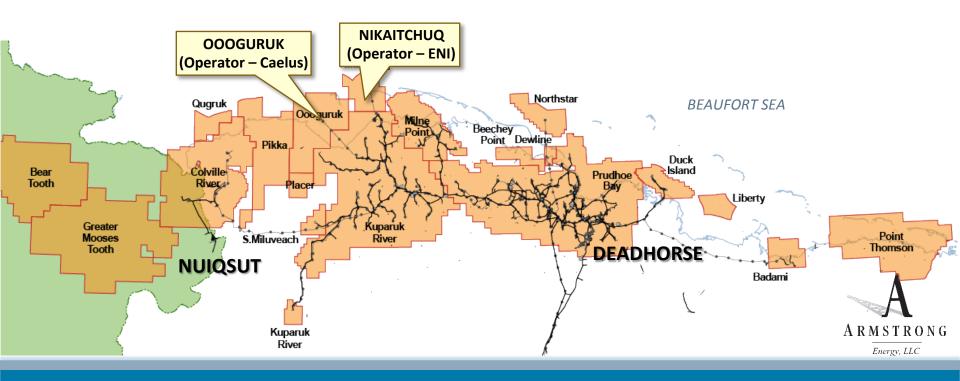
## Armstrong for Alaska

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



## Armstrong in Alaska

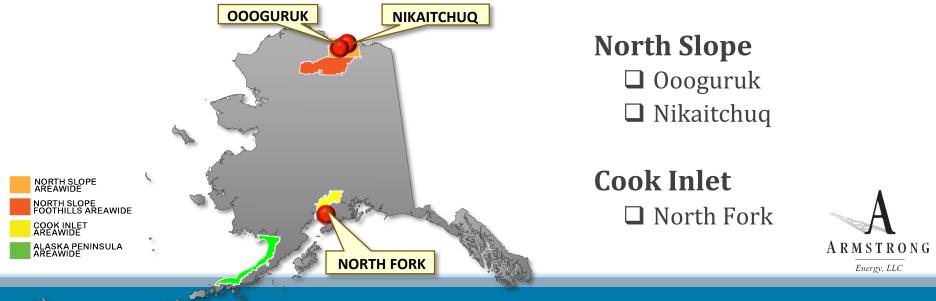
- > Armstrong
- ➢ Leasing
- > Exploration Opportunities, <u>Partnerships and Strategy</u>



## Armstrong in Alaska

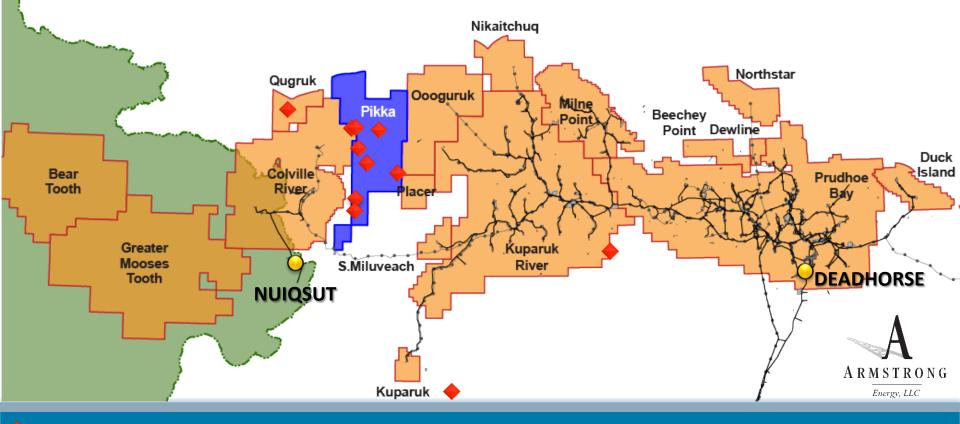
#### Commitment to Infrastructure Development and Operations





## Nanushuk Development

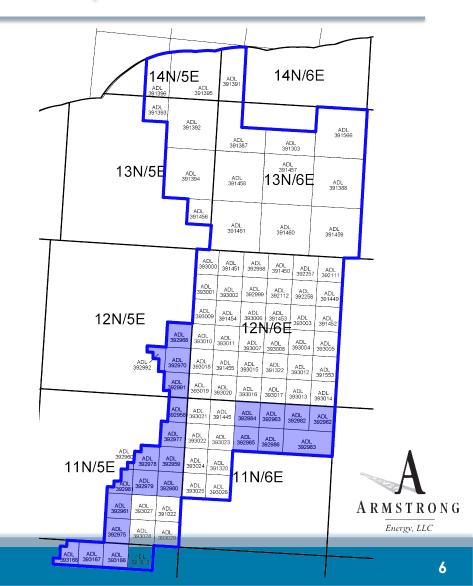
- Acquired area leases beginning in 2008
- Aggressive exploration program



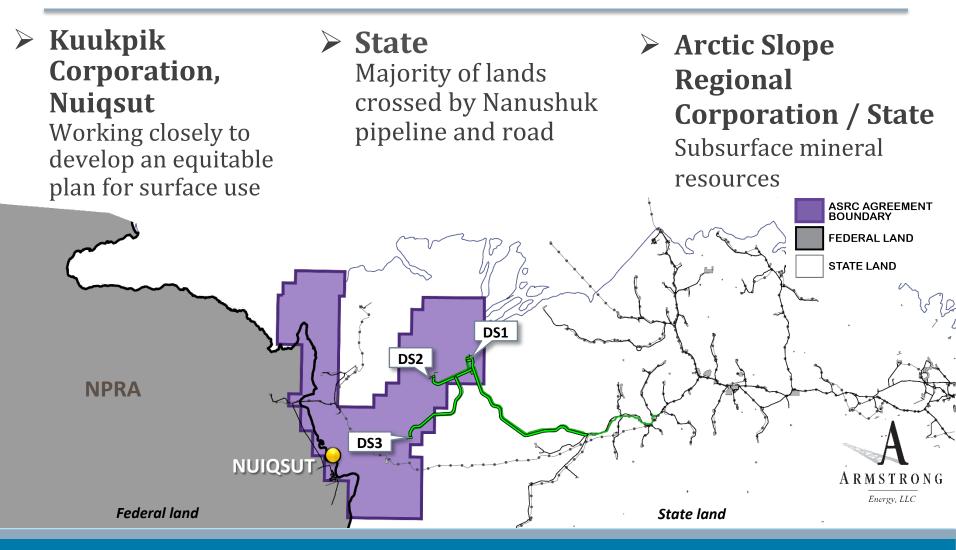
## Nanushuk Development

#### Pikka Unit

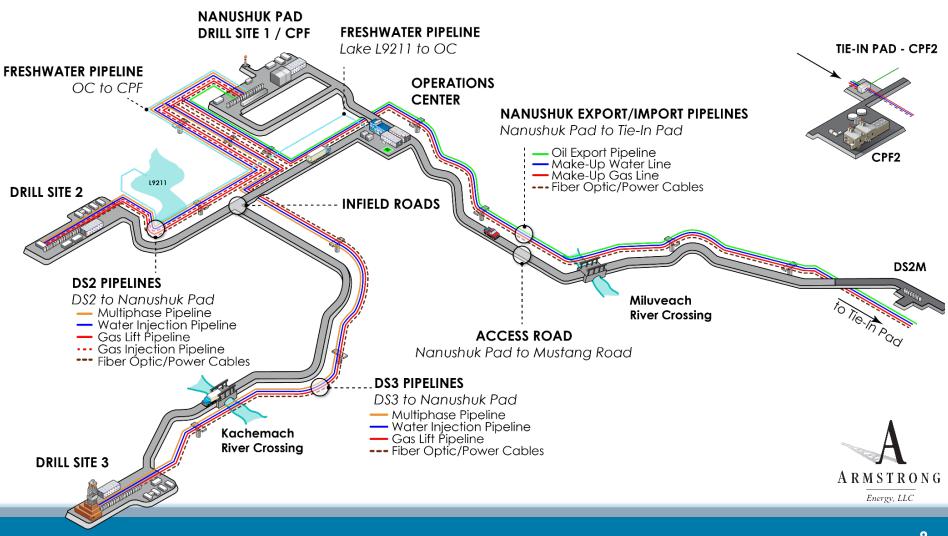
- 63,304 acre unit approved by State of Alaska and Arctic Slope Regional Corporation (ASRC) effective June 01, 2015
- SE of the east channel of the Colville River within the North Slope Borough
- 7 miles northeast of Nuiqsut



#### 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	<ul> <li>Initiate regional and local permitting processes</li> <li>Selection of the engineering company to design the CPF</li> <li>Construction of camp to accommodate 600 people</li> </ul>
2019-2021	<ul> <li>Construction of Sealift and truckable modules for CPF</li> <li>Civil works/gravel operations</li> <li>Pipeline work</li> </ul>
2020-2021	<ul><li>Drilling</li><li>Sealift Delivery</li></ul>
2022	<ul> <li>First Production</li> </ul>
-	<ul> <li>CPF modules construction;</li> <li>Permitting;</li> <li>Civil/Gravel operations;</li> <li>Pipeline work;</li> <li>First production;</li> <li>A R M ST R</li> </ul>
2015 2016	<b>2017 2018 2019 2020 2021 2022</b>
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, 36<sup>th</sup> 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



