



SHELL ALASKA

Community Update

July 2014

A large blue and white offshore oil rig is positioned in the middle of a body of water under a cloudy sky. The rig has a tall derrick and various structures on its deck. In the background, there are mountains and another smaller vessel.

EXPLORATION PROGRAM

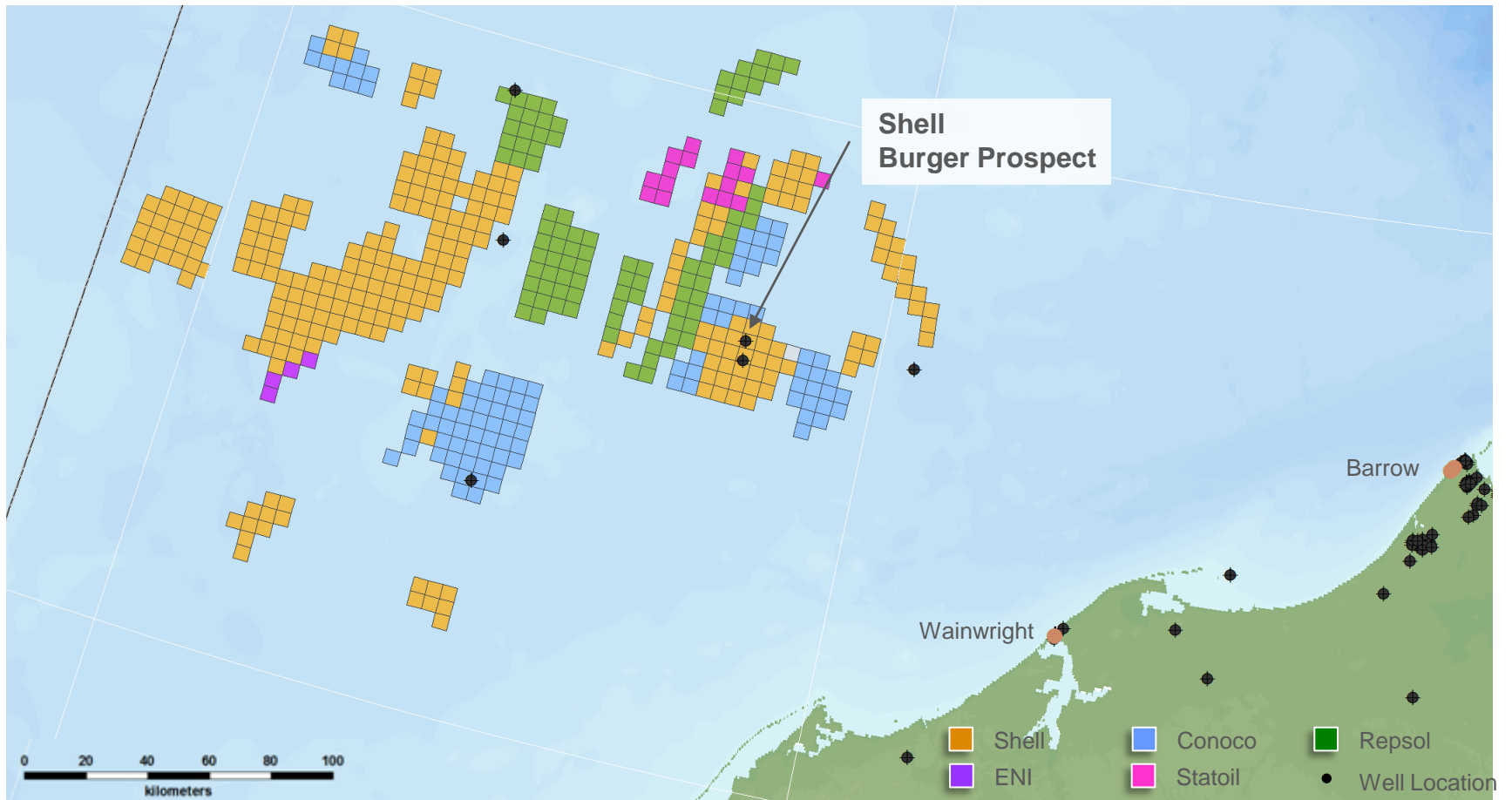
- Committed to developing Alaska's Outer Continental Shelf in a measured and responsible pace
- 2013 and 2014
 - Paused exploration activity

2015 EXPLORATION PLANNING



- 2015 – planning for a drilling program in Chukchi Sea at Burger site
 - Drilling rigs:
 - Noble Discoverer
 - Transocean's Polar Pioneer
 - Fleet of support vessels, similar to 2012
 - Anchor handlers, ice management, oil spill response, supply & towing
 - Ninth Circuit – Lease Sale 193

CHUKCHI LEASES



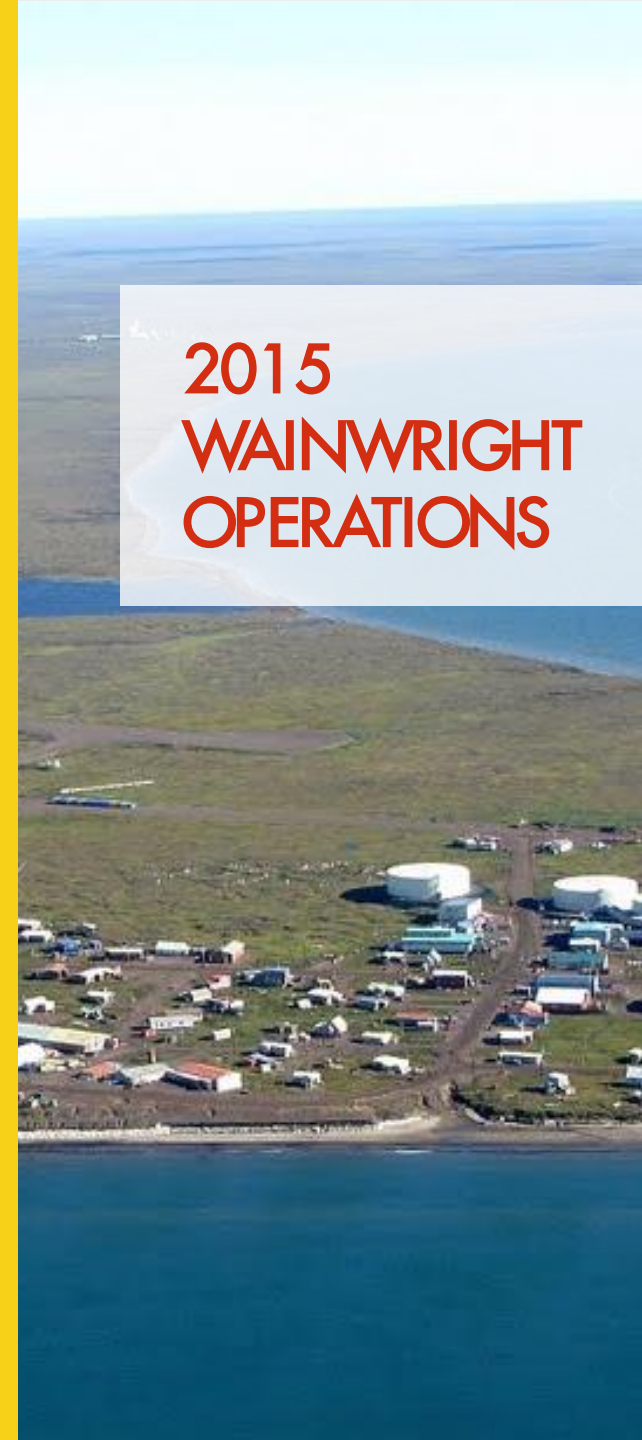
■ Oil spill response support

- Camp, yard and crew change

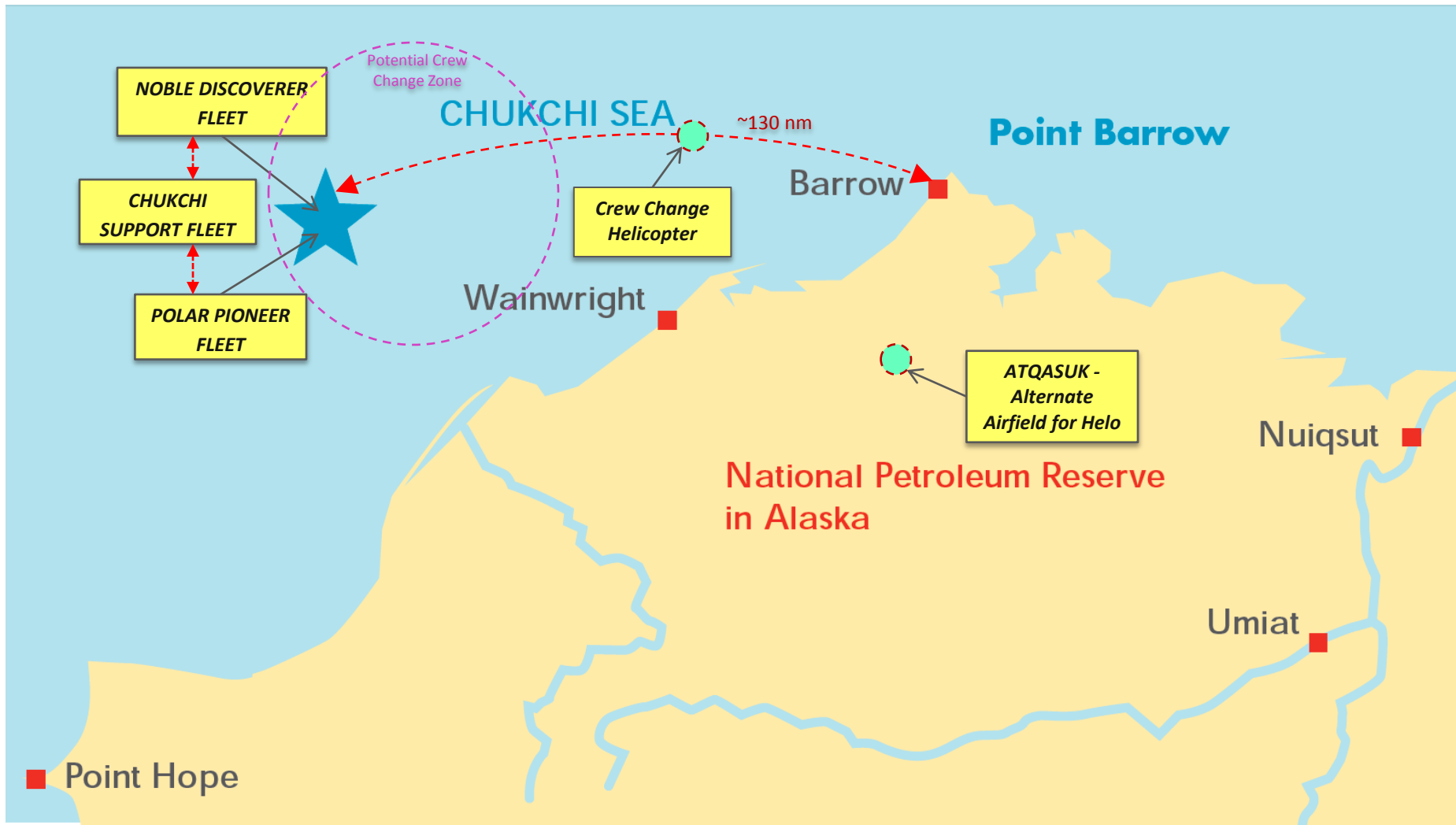
■ June to October 2015

- Charter crew change flights from Barrow
 - 15 personnel, once every 3 weeks
- Accommodations
 - Olgoonik 24-bed camp
 - 15 personnel
 - 4 camp support (local hire)
- Yard space
 - Oil spill response equipment storage
- Waste
 - Camp kitchen waste at Wainwright Landfill
 - All other waste to Lower 48 for disposal

**2015
WAINWRIGHT
OPERATIONS**



2015 CHUKCHI CREW CHANGE OPERATIONS



- Collaboration and communication with subsistence users
- Communication Centers
- Subsistence Advisors
- Public community meetings twice a year
- Protected Species Observers on all vessels
- Community Liaison Officers
- Maximizing opportunities to utilize local contracting
- North Slope Borough Science Agreement



**MITIGATION
MEASURES**

2014 SCIENCE



- Offshore Ecological Studies (Aug – Oct)
- Jointly funded by Shell, ConocoPhillips and Statoil
- Eco-system wide baseline studies (benthic, zooplankton, fisheries, marine mammals, DSAR's, sea birds)
- Ice and Metocean buoys
- Provides critical data for ice and weather forecasting
- Supports NOAA forecasting
- Building a strong science baseline
- North Slope Science Agreement



2015 SCIENCE PROGRAM

- Continue Offshore/Nearshore Ecological Studies (August – October)
 - Jointly funded by Shell, ConocoPhillips and Federal agencies
 - Eco-system wide baseline studies
 - Ice and Metocean buoys
 - North Slope Science Agreement

■ North Slope Borough Baseline Studies Program

- Surface drifter current buoys
- Ringed seal satellite tracking
- Workshop on sea ice and currents
- Bowhead and beluga hearing
- Assessment of bowhead sense of smell
- Stress monitoring in Arctic mammals
- Contaminants and biomarkers in beluga whales
- Bowhead ship strike and entanglement scar baseline
- Caribou calving, fox den, & wolverine surveys

DRILLING RIGS



Discoverer

- **Drilling Rig**
- Length: 514 ft
- Width: 71 ft
- Draft: 26 ft
- Accommodations: 124
- Owner/Operator: Noble Corporation



Polar Pioneer

- **Drilling Rig**
- Length: 279 ft
- Width: 233 ft
- Draft: 30 ft
- Accommodations: 100
- Owner/Operator: TransOcean (Panama)

ICE MANAGEMENT



Nordica

- **Ice Management**
- Length: 380 ft
- Width: 85 ft
- Draft: 27 ft
- Accommodations: 77
- Owner/Operator: Arctia Offshore (Finland)



Fennica

- **Ice Management**
- Length: 380 ft
- Width: 85 ft
- Draft: 27 ft
- Accommodations: 77
- Owner/Operator: Arctia Offshore (Finland)

ICE MANAGEMENT



Aiviq

- **Anchor Handler**
- Length: 360.8 ft
- Width: 80 ft
- Draft: 28 ft
- Accommodations: 64
- Owner/Operator: Edison Chouest



Ross

- **Anchor Handler**
- Length: 256 ft
- Width: 54 ft
- Draft: 18 ft
- Accommodations: 39
- Owner/Operator: Edison Chouest



Tor Viking

- **Anchor Handler**
- Length: 274 ft
- Width: 59 ft
- Draft: 20 ft
- Accommodations: 23
- Owner/Operator: Trans Viking (Sweden)

FLEET RESUPPLY



Sisuaq

- **Fleet Resupply**
- Length: 292 ft
- Width: 64 ft
- Draft: 19.6 ft
- Accommodations: 50
- Owner/Operator: Harvey Gulf



Champion

- **Fleet Resupply**
- Length: 300 ft
- Width: 64 ft
- Draft: 19.6 ft
- Accommodations: 50
- Owner/Operator: Harvey Gulf



Supporter

- **Fleet Resupply**
- Length: 300 ft
- Width: 64 ft
- Draft: 19.6 ft
- Accommodations: 50
- Owner/Operator: Harvey Gulf

OCEAN-GOING TUGS



Ocean-going Tug (TBN - not contracted)

- **Tug Support Vessel**
- Length: 146 ft
- Width: 46 ft
- Draft: 21 ft
- Accommodations: 13
- Owner/Operator: Crowley



Ocean-going Tug (TBN – not contracted)

- **Tug Support Vessel**
- Length: 146 ft
- Width: 46 ft
- Draft: 21 ft
- Accommodations: 13
- Owner/Operator: Crowley

OIL SPILL RESPONSE



Guardsman

- **Tug Support - OSR**
- Length: 136.2 ft
- Width: 36.6 ft
- Draft: 20 ft
- Accommodations: 11
- Owner/Operator: Crowley



Klamath

- **Oil Spill Response**
- Length: 333 ft
- Width: 76 ft
- Draft: 22 ft
- Accommodations: 0
- Owner/Operator: Crowley



Nanuq

- **Oil Spill Response**
- Length: 301 ft
- Width: 60 ft
- Draft: 21 ft
- Accommodations: 41
- Owner/Operator: Edison Chouest

TANKER & DRILL DISCHARGE MONITORING



DDM Vessel

Tanker (*TBN – not contracted*)

- **OSR/Refueling**
- Length: 748 ft
- Width: 105.9 ft
- Draft: 46.8 ft
- Accommodations: 24
- Owner/Operator:
Transpetrol (Singapore)

TBD (*not contracted*)

- **Drilling Discharge Monitoring**
- Length: TBD
- Width: TBD
- Draft: TBD
- Accommodations: TBD
- Owner/Operator: TBD

