

## **NSSI Data Sources – Infrastructure and Landownership (2/27/2019)**

### **Infrastructure:** Pipelines and Roads

Agency: NSSI – North Slope Science Initiative

Date: January 2019

Link: <http://catalog.northslopescience.org/catalog/entries/8691-north-slope-infrastr>

### **Roads:** North Slope Infrastructure (v3) Update 01/14/2019

Agency: NSSI – North Slope Science Initiative

Date: January, 2019

Link: <http://catalog.northslopescience.org/catalog/entries/8691>

### **Pipelines:** North Slope Infrastructure (v3) Update 01/14/2019

Agency: NSSI – North Slope Science Initiative

Date: January, 2019

Link: <http://catalog.northslopescience.org/catalog/entries/8691>

### **Wells**

Agency: AOGCC – Alaska Oil and Gas Conservation Commission, ADNRC – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: February 2019

Link: <http://doa.alaska.gov/ogc/data.html> - DATA EXTRACT

Converted table to ArcMap GIS dataset using x/y coordinate fields:

***Wellhead\_Calculated\_Longitude\_NAD83*** and ***Wellhead\_Calculated\_Latitude\_NAD83***,

Selected features where ***AREA*** field = “ARCTIC SLOPE” OR “ARCTIC FOOTHILLS” or “ARCTIC OCEAN, ST.” OR “ARCTIC OCEAN, FED.”

Selected and removed features where ***Current\_Class*** field <> “Permit expired” AND <> “Permit cancelled”

Field named “General\_Category” was generated by UAA – Alaska Center for Conservation Science to categorize wells into four categories. The categorization was based upon following interpretation of values in the Alaska Oil and Gas Conservation Commission’s well database field ***Current\_Status*** and

#### ***Current Class***

Total of 7185 wells were mapped

**Development/Production/Service:** 4539 wells, (Current\_Status <> 'Plugged & Abandoned' AND Current\_Status <> 'Administratively abandoned' AND Current\_Status <> 'Shut In' AND Current\_Status <> 'Suspended well') AND ( Current\_Class = 'Development' OR Current\_Class = 'Service')

**Exploratory:** 44 wells, Current\_Class = 'Exploratory' AND( Current\_Status <> 'Plugged & Abandoned' AND Current\_Status <> 'Administratively abandoned' AND Current\_Status <> 'Shut In' AND Current\_Status <> 'Suspended well' )

**Inactive:** 199 wells, (Current\_Status = 'Administratively abandoned' OR Current\_Status = 'Shut In' OR Current\_Status = 'Suspended well')

**Plugged & Abandoned:** 2403 wells, Current\_Status = “Plugged & Abandoned”

Note: 84 wells had Current\_Status classified as “Unknown”, these wells were placed in the General Categories according to their Permitted Class value.

CATEGORY (NSSI) / Current Status (AOGCC)	Count
<b>Development / Production / Service</b>	<b>4539</b>
Disposal injection well, Class 1	17
Disposal injection well, Class 2	31
Gas injection, single completion	61
Gas well, single completion	24
Information well	1
Observation well	7
Oil well, dual completion	1
Oil well, single completion	2948
Sqzd orig hole w/mult laterals	4
Unknown	67
Water alt gas injection	907
Water injection, single completion	441
Water injection, single pool, two tbg strings	14
Water supply well	16
<b>Exploratory</b>	<b>44</b>
Gas injection, single completion	1
Observation well	18
Oil well, single completion	8
Unknown	17
<b>Inactive</b>	<b>199</b>
Administratively abandoned	24
Shut In	1
Suspended well	174
<b>Plugged &amp; Abandoned</b>	<b>2403</b>
Plugged & Abandoned	2403
<b>Grand Total</b>	<b>7185</b>

**Oil and Gas Management:** Leases, Production Areas, Lessees

Agency: ADNR – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: November, 2018

Link: <https://dog-soa-dnr.opendata.arcgis.com/>

**Oil and Gas - Notification (Primary) Lessee** – agent to receive notices from State of Alaska for a given lease

Agency: ADNR – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: November, 2018

Link: [https://dog-soa-dnr.opendata.arcgis.com/datasets/26d8c350cbcf4965b034785c76ef8aae\\_0](https://dog-soa-dnr.opendata.arcgis.com/datasets/26d8c350cbcf4965b034785c76ef8aae_0)

### **Oil/Gas Leases – ADNR – Jan2019** - current state oil and gas leases

Agency: ADNR – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: November, 2018

Link: <https://dog-soa->

[dnr.opendata.arcgis.com/datasets/cfbf84f123944166a14dd32820cd3ddc\\_0?geometry=-320.761%2C54.023%2C10.938%2C77.337](https://dog-soa-dnr.opendata.arcgis.com/datasets/cfbf84f123944166a14dd32820cd3ddc_0?geometry=-320.761%2C54.023%2C10.938%2C77.337)

Current lease polygons were dissolved into a single feature by UAA – Alaska Center for Conservation Science.

### **Oil/Gas Leases – BLM – Jan2019** - current federal oil and gas leases

Agency: BLM – Bureau of Land Management

Date: November, 2018

Links:

1999-2016 Leases: Authorized Oil and Gas Leases within the National Petroleum Reserve - Alaska

[https://sdms.ak.blm.gov/metadata/npra\\_lease\\_sales.html](https://sdms.ak.blm.gov/metadata/npra_lease_sales.html)

2017 and 2018 Leases: <https://www.blm.gov/programs/energy-and-minerals/oil-and-gas/leasing/regional-lease-sales/alaska>

Current lease polygons were merged together and then dissolved into a single feature by UAA – Alaska Center for Conservation Science.

### **Oil and Gas – Participating Area Boundaries**

Agency: ADNR – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: November, 2018

Link: [https://dog-soa-dnr.opendata.arcgis.com/datasets/1c15d3d7622c403199b0449d446e8cff\\_0](https://dog-soa-dnr.opendata.arcgis.com/datasets/1c15d3d7622c403199b0449d446e8cff_0)

### **Oil and Gas – Unit Boundaries**

Agency: ADNR – DOG – Alaska Department of Natural Resources, Division of Oil and Gas

Date: November, 2018

Link: [https://dog-soa-dnr.opendata.arcgis.com/datasets/3edaf88af6b5473e8084a9c72131ab87\\_0](https://dog-soa-dnr.opendata.arcgis.com/datasets/3edaf88af6b5473e8084a9c72131ab87_0)

### **NPRA Special Areas:** National Petroleum Reserve Alaska

Agency: BLM – Bureau of Land Management

Date: January, 2017

Link: [https://eplanning.blm.gov/epl-front-](https://eplanning.blm.gov/epl-front-office/eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage&currentPageId=14707)

[office/eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage&currentPageId=14707](https://eplanning/planAndProjectSite.do?methodName=dispatchToPatternPage&currentPageId=14707)

Notes: Special Use Areas from NPRA\_ Integrated Activity Plan (IAP) Environmental Impact Statement (EIS) – Alternative B-2.

### **Land Management:** Surface management composite

Agency: BLM – Bureau of Land Management

Date: January, 2019

Link: SDMS – Spatial Data Management System <https://sdms.ak.blm.gov/isdms/imf.jsp?site=sdms>

Notes combined general land status layer, mapped to nearest Section with detailed NPRA and US Fish Wildlife Service boundaries to create detailed surface land management layer

**Native Allotments:**

Agency: BLM – Bureau of Land Management

Date: January, 2019

Link: SDMS – Spatial Data Management System <https://sdms.ak.blm.gov/isdms/imf.jsp?site=sdms>