

WHERE AND HOW TO FIND OIL & GAS DATA IN ALASKA A CASE STUDY

Division of Oil and Gas Alaska Department of Natural Resources

January 2020



This slide show will function best if you save the .pdf to your device and run it from there. This makes use of the links easier.

WELCOME

Dear Explorers and Investors,

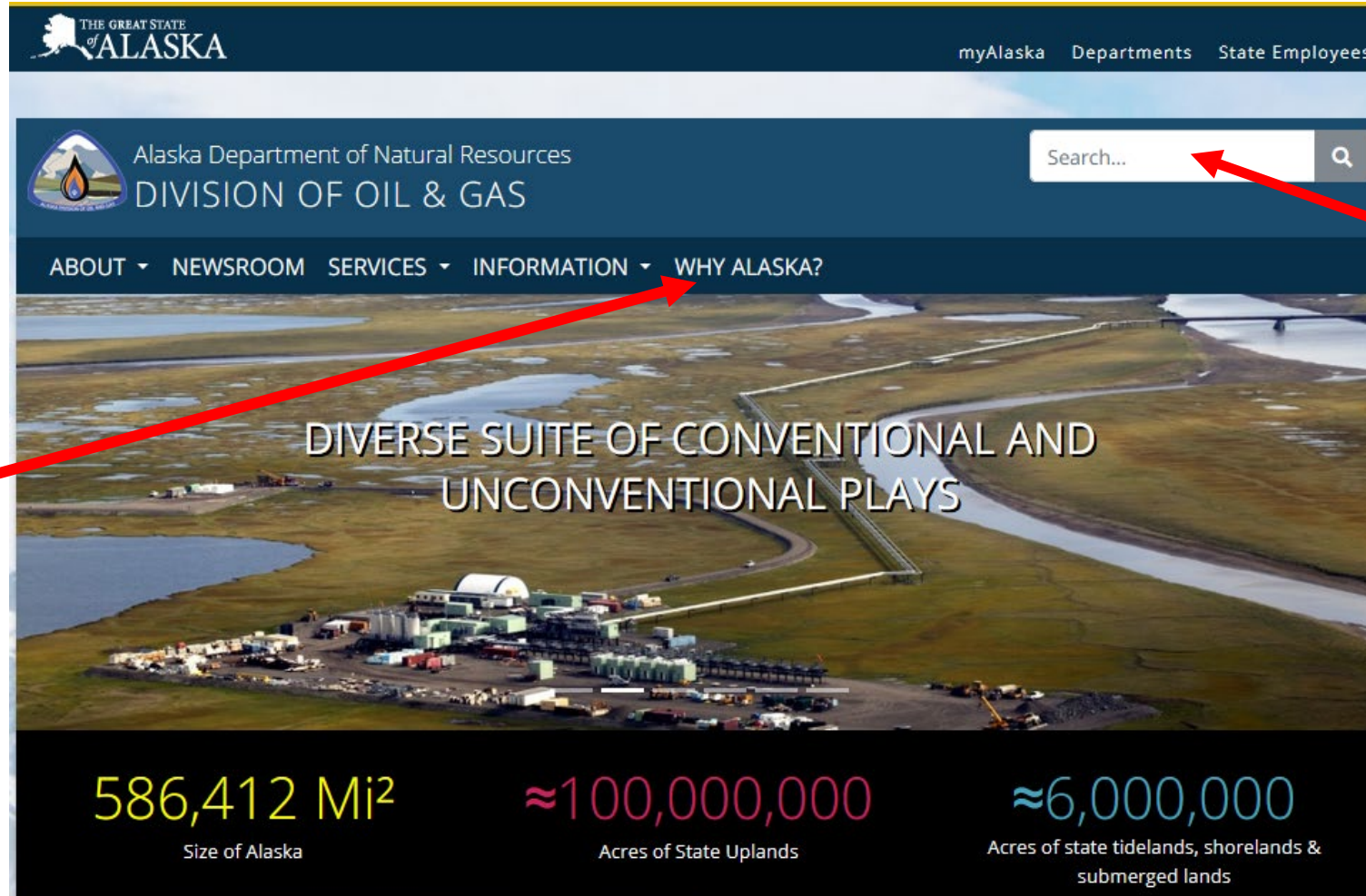
The State of Alaska offered three SALSA blocks for sale at the Fall of 2019 Competitive Oil and Gas Lease Sales. These unique lease sale blocks were groups of North Slope and Beaufort Sea Areawide lease sale tracts that were offered together as Special Alaska Lease Sale Areas (SALSA). The Division of Oil and Gas gathered and highlighted large amounts of publicly available data that bears on the SALSA areas. The presentation shared here was originally offered in support of the SALSA blocks offered. The SALSA effort has now run its course but the methods of locating useful data to support the evaluation of State lands remains. The original presentation is edited here to focus on the data. The method can be applied to any area of interest. Please review the important [disclaimer](#) at the end of this presentation.

This compilation is meant to give you a jump start in understanding what State of Alaska data is available for your use. Access to this insightful information will help you interpret and evaluate Alaska's resources more quickly whether you are considering participation in a state Lease Sale or evaluation of a lead, prospect or discovery. Enjoy.



How Do I Get To This SLIDESHOW?

Go to the website directly: <https://dog.dnr.alaska.gov/Home/WhyAlaska>



or...Select Why Alaska? from the Division of Oil & Gas website main menu

or ... just type 'Locating O&G Data in Alaska' in the search bar at the DOG home page



State of Alaska Public Data



Locator
Map

Current Units
w
EXP wells
since 1960

Credit Program
3D seismic
eligible for
release

Terminated
Units and Wells
that have
flowed HC to
Surface

Data/Info
Sources

AOGCC

Well logs

Test
Results

Well
Histories

Mudlogs

Test
Information
and Citings

Core
Analyses

DGGS
GMC

Public 3D
Seismic

Public
Core

Core
Chips

Reports

Other
Stuff

Historic
Bidding in
Select Areas

Historic
Well Targets

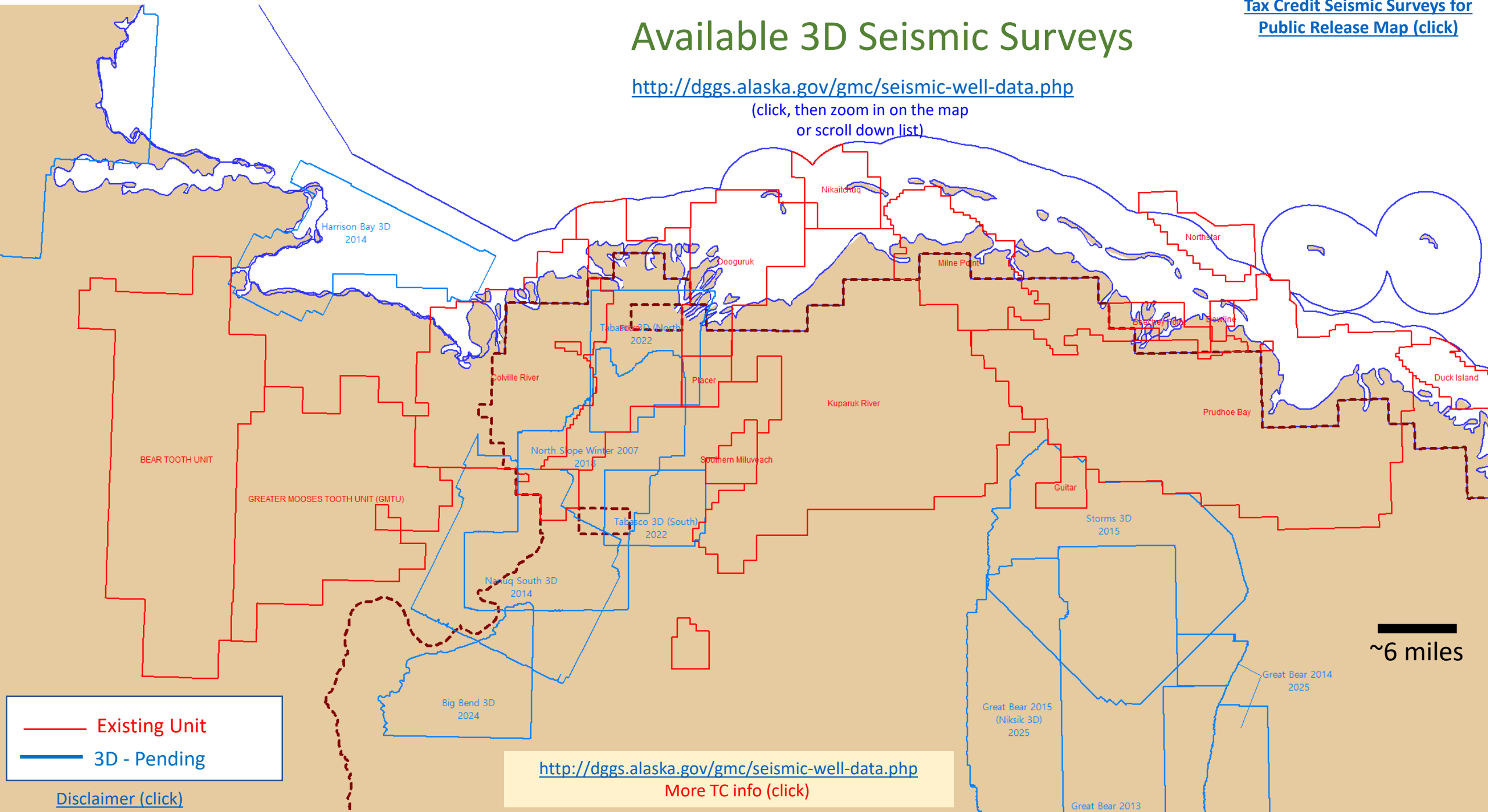
Reference - USGS
2005 Oil and Gas
Resource Assessment
of the Central North
Slope, Alaska: Play
Maps and Results



Available 3D Seismic Surveys

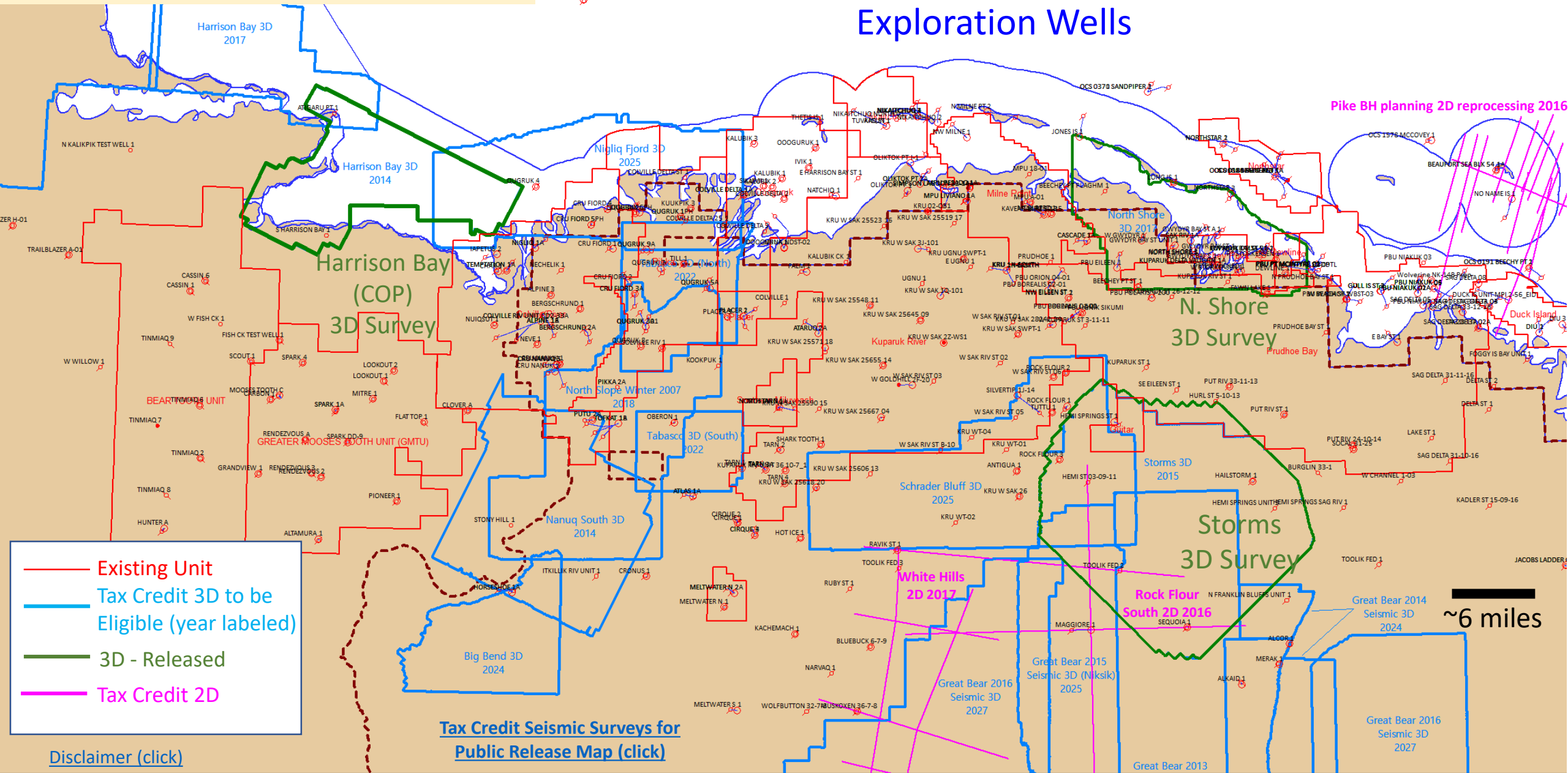
<http://dggs.alaska.gov/gmc/seismic-well-data.php>

(click, then zoom in on the map
or scroll down list)

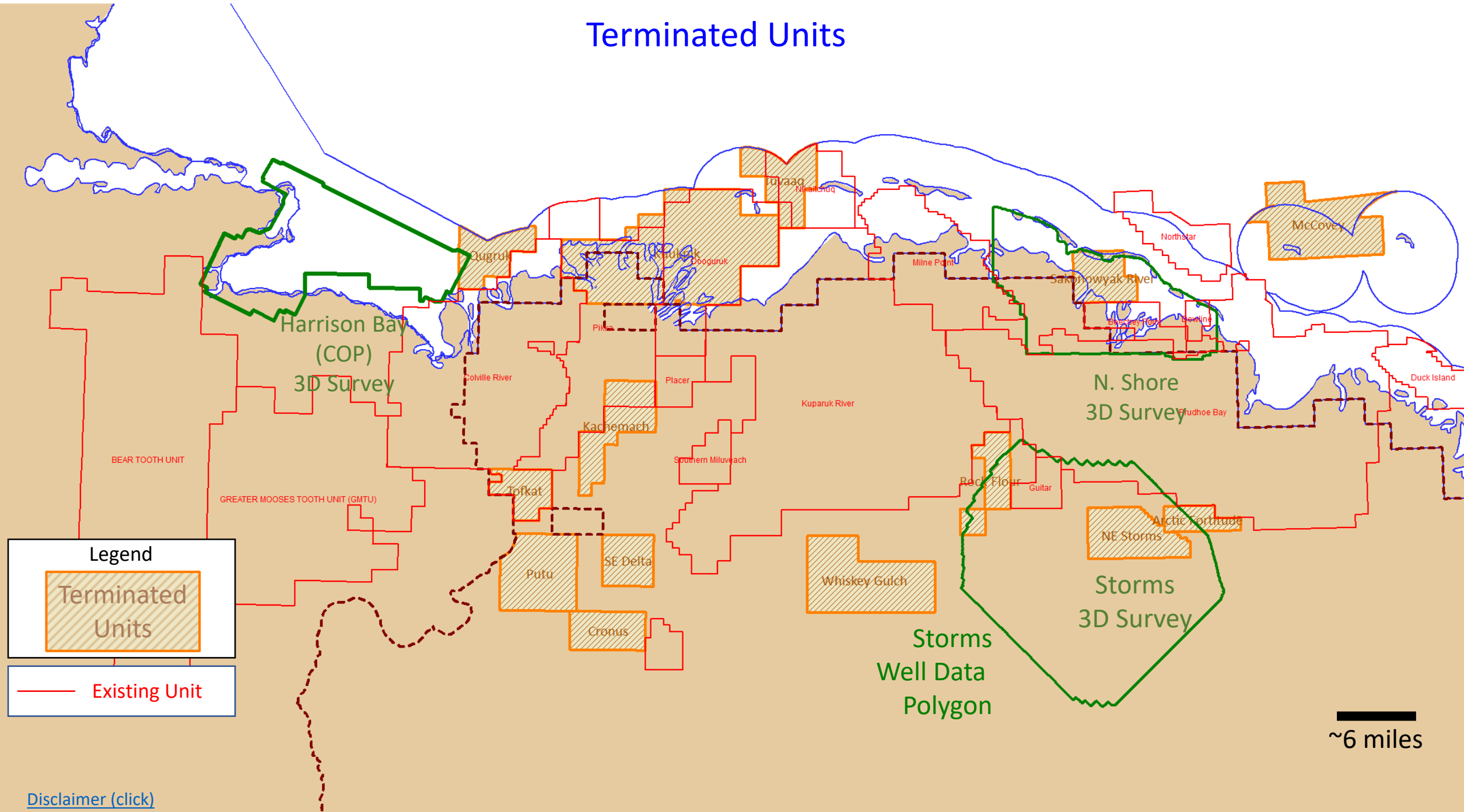


<http://dggs.alaska.gov/gmc/seismic-well-data.php>

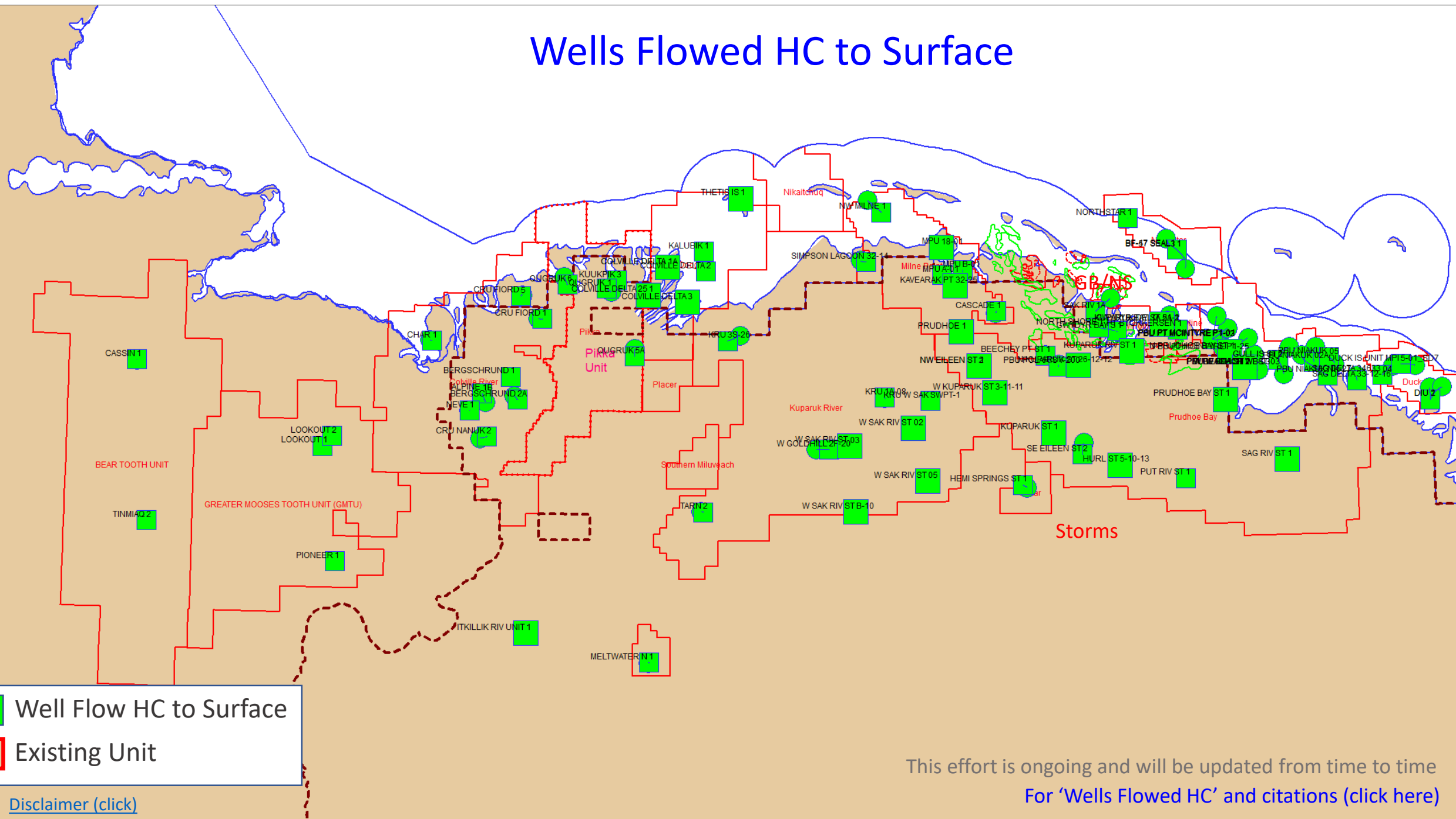
Pike BH planning 2D reprocessing 2016




Terminated Units



Wells Flowed HC to Surface





Department of Commerce, Community, and Economic Development
ALASKA OIL AND GAS CONSERVATION COMMISSION

HOMEEVENTSDATAREPORTSFORMSLINKSABOUT US

State of Alaska / Commerce / Alaska Oil & Gas Conservation Commission / Home

ALASKA OIL AND GAS CONSERVATION COMMISSION

HomeEventsDataReports and ChartsPool StatisticsFormsLinksStatutes and RegulationsHow to ApplyAbout Us

ALASKA OIL AND GAS CONSERVATION COMMISSION (AOGCC)

Highlights

[Sign up](#) to receive AOGCC Public Hearing Announcements and Orders.

Have a question for AOGCC? [Email us](#) at aogcc.web@alaska.gov or call (907) 279-1433.

Proposed repeal of regulations

The Alaska Oil and Gas Conservation Commission (AOGCC) proposes to repeal regulation changes in 20 AAC 25. of the Alaska Administrative Code. The Commission proposes to repeal 20 AAC 25.037 well control requirements for other drilling and completion operations; 20 AAC 25.047 reserve pits and tankage; 20 AAC 25.225 potential of gas wells; 20 AAC 25.245 common production facilities; 20 AAC 25.260 illegal production, 20 AAC 25.528 open pit storage of oil and 20 AAC 25.320 filing of forms.

- Public notice | Additional Information
- Detailed description of proposed repealed regulations

Updated Bonding Requirements 20 AAC 25.025

Effective 5/18/2019

- Public notice | Additional information | Fiscal notes | Draft regulations
- Post Hearing Notice
- 20 AAC 25 025 Final

EPA Memorandums of Agreement

- Memorandum of Agreement : 1991
- Compliance Assurance Agreement: 1991
- Signed Memorandum of Agreement: Underground Injection Control (UIC) Class II Wells: 1986

Mission Statement

To protect the public interest in exploration and development of Alaska's valuable oil, gas, and geothermal resources through the application of conservation practices designed to ensure greater ultimate recovery and the protection of health, safety, fresh ground waters and the rights of all owners to recover their share of the resource.

Anchorage

Mailing/Physical Address
333 W 7th AVE
Anchorage, AK 99501

Phone: (907) 279-1433

Fax: (907) 276-7542

Alaska Oil and Gas Conservation Commission

333 W. 7th Ave
Anchorage, Alaska 99501
Phone: (907) 279-1433
Fax: (907) 276-7542

AOGCC – Data
<https://www.commerce.alaska.gov/web/aogcc/Data.aspx>

What's here?

- Production Data
- Digital log data (by request)
- Hydraulic Frac’ing Permits
- Drilling Data
- Digital Well (History) Files
- Directional Surveys (by request)
- Mudlogs (by request)
- Show reports (by request)
- Reports and charts
- Pool Statistics
- Data Miner 3
- Data Miner 2
- FTP Site

Useful AOGCC Links (click)

<https://www.commerce.alaska.gov/web/aogcc/> - AOGCC Website

<http://aogweb.state.ak.us/DataMiner3/Forms/WellList.aspx> - AOGCC Well List

<http://aogweb.state.ak.us/WebLink/Browse.aspx?cr=1&cc=1> - AOGCC Laserfiche Site for Well Histories

[DataReqst.pdf](#) - AOGCC public data request form (well logs, mudlogs, test results, core analyses, core descriptions, etc)

<http://aogweb.state.ak.us/DataMiner3/Forms/Default.aspx> - Production data (DataMiner 3)

DGGS Alaska Geological Materials Center



What's here?

<http://dggs.alaska.gov/gmc/index.php>

(Click here)

Public Core/Chips/SWC/Plugs etc
 TC-released 2D and 3D Seismic
 TC-released Well and Geologic Data
 Paly slides
 Paleo analyses
 Geochem
 Maps/Reports
 Well cuttings

Useful GMC Links

<http://dggs.alaska.gov/> - GMC website
<http://dggs.alaska.gov/gmc/seismic-well-data-summary.html> - Credit Program Seismic & Well data summary
<http://dggs.alaska.gov/gmc/seismic-well-data.php> - GMC public seismic and well data with request form
<https://maps.dggs.alaska.gov/gmc/> - GMC data inventory
<http://dggs.alaska.gov/pubs/advanced-search> - GMC publications/reports

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[Geophysics](#)
[Geologic Materials Center](#)
[Contact Us](#)
[Links](#)

[Natural Resources > Geological & Geophysical Surveys > Geologic Materials Center - Inventory](#)

Geologic Materials Center - Inventory

On-line Inventory

Our live on-line inventory dataset (right) includes oil and gas well locations, mineral prospect locations, sample types, box-level details, and additional metadata for over 90% of the archived samples available at the Alaska GMC. The interactive inventory allows users to quickly and easily view details of the sample repository before visiting the facility. If you do not find materials appropriate to your research needs, please [contact us](#) at the GMC. We have search capabilities not available through the web search interface.

What do we have?

The Alaska GMC in Anchorage holds non-proprietary rock core and cuttings that represent more than 16.7 million feet of unique energy exploration and production drilling samples and 76,000 linear feet of continuous core from more than 3,000 exploratory or production wells on Federal, State, and private lands in Alaska, including the Alaska outer continental shelf (map image, right). Additionally, the collection holds more than 354,000 linear feet of diamond-drilled hard-rock mineral core representing more than 2,100 exploratory and geotechnical boreholes. USGS, USBOM, USBLM, and energy industry archives are merged at the GMC to form a state-wide collection of 350,000 surface rock and sediment samples. Our catalogue of more than 198,000 processed slides contains a world-class palynology collection and numerous other microfossil, organic and petrographic thin sections, sediment, and thermochronology glass slides. Extensive geological and geochemical results derived from all third-party sampling of GMC materials are maintained in unreviewed [data and reports](#) and Alaska air USGS photos.

Inventory Search

[Find GMC Inventory Samples](#)

The search interface functionality is dependent on the features of the particular web browser's operating system.

Inventory Search

[Inventory Search Help & Hints](#)

Sample Donations

[Learn About GMC Sample Donations](#)

See how new donations are made and review the catalogue of new GMC samples with the on-line search interface.

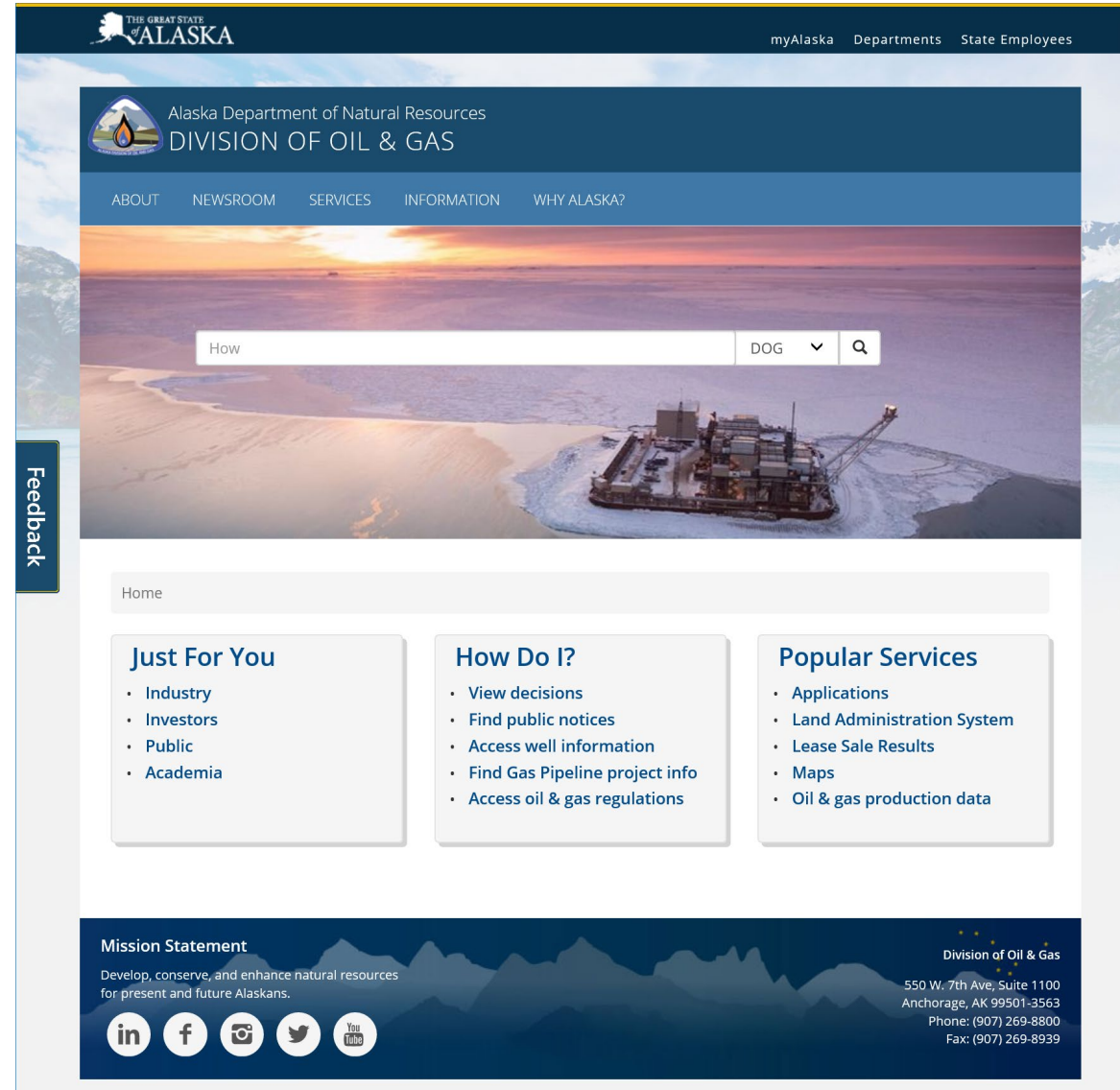
Links to GMC SALSA Inventory Lists and Well history Files

[Harrison Bay \(click\)](#)
[Gwydyr Bay/N.Shore \(click\)](#)
[Storms \(click\)](#)

Link to DGGS Publication List (click)

Data/Information Sources

Division of Oil & Gas (DOG)



What's here?

<http://dog.dnr.alaska.gov/>
(click)

Newsroom – latest decisions/notices
Royalty Services
BIF and Lease Sale*
Data
Maps & GIS
Document Library
Geological & Geophysical Data
Studies

<http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>

*Best Interest Findings – Lease Sale (click)

Check under 'Current Lease Sales' to see if notice is out and details if it is.

[Disclaimer \(click\)](#)

Useful DOG Links (click)

<http://dog.dnr.alaska.gov/> - DOG homepage

<http://dog.dnr.alaska.gov/Information/DocumentLibrary> - DOG document library

<http://dog.dnr.alaska.gov/Information/GeologicalAndGeophysicalData> - DOG geophysical/geological data

<http://dog.dnr.alaska.gov/Information/Data> - DOG Data (Royalty, leasing)

<http://dog.dnr.alaska.gov/Information/MapsAndGis> - DOG Maps & GIS (leasing, unit, activity maps, etc) & shapefiles

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Latest Petroleum News PDF

Complete PDF Edition **Week of June 10, 2018**

- **ANWR seismic is planned - 06/10/2018** SAEExploration Inc., Arctic Slope Regional Corp. and Kaktovik Inupiat Corp. have filed with the federal Bureau of Land Management a plan for a proposed 3-D seismic survey program in the 1002 area of the Arctic National Wildlife Refuge. The program, referred to as the Marsh Creek 3-D, would encompass....
- **LNG giants teaming up - 06/10/2018** One more building block has fallen into place to secure the future of LNG Canada, putting the C\$40 billion project in sight for a final investment decision before year's end. Petronas, Malaysia's state-owned energy giant, announced it is taking an equity position — without disclosing the investment....
- **Pentex sale close deferred - 06/10/2018** In the latest twist in the Alaska Industrial Development and Export Authority's Interior Energy Project, the AIDEA board has extended to June 14 the timeframe for closing the sale of Pentex Natural Gas Co. to the Interior Gas Utility. The intent had been to close the sale by the end of May. The conc....
- **Conoco closes on west NS purchase - 06/10/2018** ConocoPhillips said June 4 that it has obtained approvals for the acquisition of Anadarko Petroleum Corp.'s 22 percent lease interests in the western North Slope of Alaska. ConocoPhillips announced the acquisition Feb. 1, saying at that time that it had signed a definitive agreement with Anadarko f....
- **Washington state, BC share concerns - 06/10/2018** An informal Pacific Coast cross-border alliance is taking shape in opposition to the movement of crude oil to export terminals connecting North America with energy hungry Asian markets. And the loose partnership of British Columbia, Washington, Oregon and California has gathered momentum now that Ca....
- **AIDEA converts its Mustang ownership interest to loan financing - 06/10/2018** During its May 31 meeting the board of the Alaska Industrial Development and Export Authority passed a resolution converting its ownership interests in the Mustang oil field on the North Slope to a loan to CaraCol Petroleum LLC, one of the field's working interest owners. The deal involves AIDEA sel....
- **Alyeska sets summer maintenance - 06/10/2018** It's planned maintenance season in Alaska, with Alyeska Pipeline Service Co. announcing several pipeline shutdowns this summer. The company said May 31 that the line-wide shutdowns, from 12 to 18 hours, allow for maintenance work along the line and at the Valdez Marine Terminal "while the pipeline l....
- **ANS production down marginally in April - 06/10/2018** Alaska North Slope crude oil production averaged 513,257 barrels per day in April, down 0.7 percent, 3,612 bpd, from a March average of 516,869 bpd, and down 5.5 percent from an April 2017 average of 543,252 bpd. Production data is from the Alaska Oil and Gas Conservation Commission, which provides....

• **Balash promotes more federal cooperation - 06/10/2018** During a speech at the Alaska Oil and Gas Association's annual conference on May 31 Joe Balash, assistant secretary for lands and minerals management in the U.S. Department of the Interior, said that the federal administration is intent on taking more of a partnership approach when working with the....

• **Hilcorp seeks RCA Drift River approval - 06/10/2018** Cook Inlet Pipe Line Co., a subsidiary of Hilcorp Alaska, has asked the Regulatory Commission of Alaska to authorize the permanent decommissioning of the Drift River Terminal and its associated infrastructure on the west side of Cook Inlet. Hilcorp is engaged in a project to reconfigure its Cook Inl....

• **Contraction planned for Redoubt unit - 06/10/2018** In a reflection that the revival of the Redoubt unit has arrived at a new phase, Glacier Oil & Gas Corp. has asked the state to contract the unit and to form a new participating area. Through its subsidiary Cook Inlet Energy LLC, the company made the application in November 2017 to comply with a sta....

• **Hilcorp buying Exxon out of Endicott line - 06/10/2018** Hilcorp Alaska acquired certain of BP's North Slope assets in early 2014, including all of BP's interests in the Endicott and Northstar oil fields and a 50 percent interest in Liberty and Milne Point. BP's interests in oil and gas pipelines associated with those fields were also included. Hilcorp a....

• **Exxon aims to boost earnings, production - 06/10/2018** Exxon's CEO says the company can more than double its earnings by 2025 and will invest in new oil and gas production even if policymakers adopt rules to combat climate change. Darren Woods told shareholders May 30 that technology like biofuels will allow the company to produce energy with lower car....

• **BLM retains ANWR public comment deadline - 06/10/2018** The federal Bureau of Land Management announced on June 4 that it will not extend the public comment period for the scoping of an environmental impact statement for an oil and gas lease sale program for the coastal plain of the Arctic National Wildlife Refuge. As previously determined, the comment p....

• **Final protesters removed from perches - 06/10/2018** The final two protesters who had perched themselves on trees and poles to block construction of a natural gas pipeline through Appalachia have come down. The Roanoke Times reports one protester was forcibly removed June 1 and another came down voluntarily as authorities approached. The June 1 action....

• **National rig count rises by 1 to 1,060 - 06/10/2018** The number of rigs drilling for oil and natural gas in the U.S. increased by one the week ending June 1 to 1,060. At this time a year ago there were 916 active rigs. Houston oilfield services company Baker Hughes reported that 861 rigs drilled for oil (up two from the previous week) and 197 for gas....

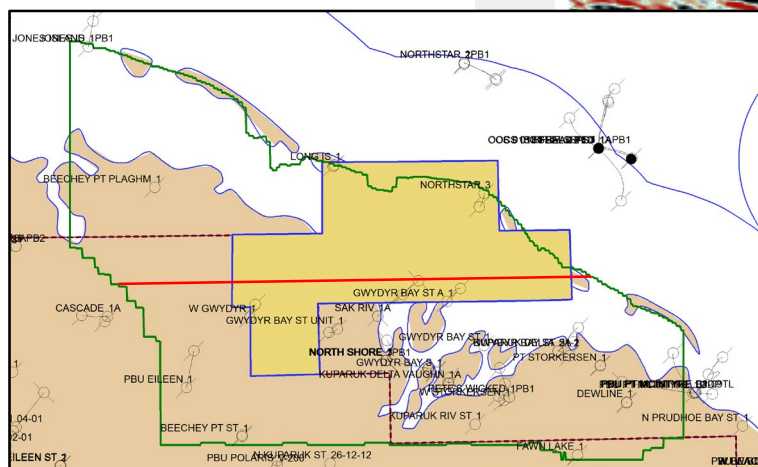
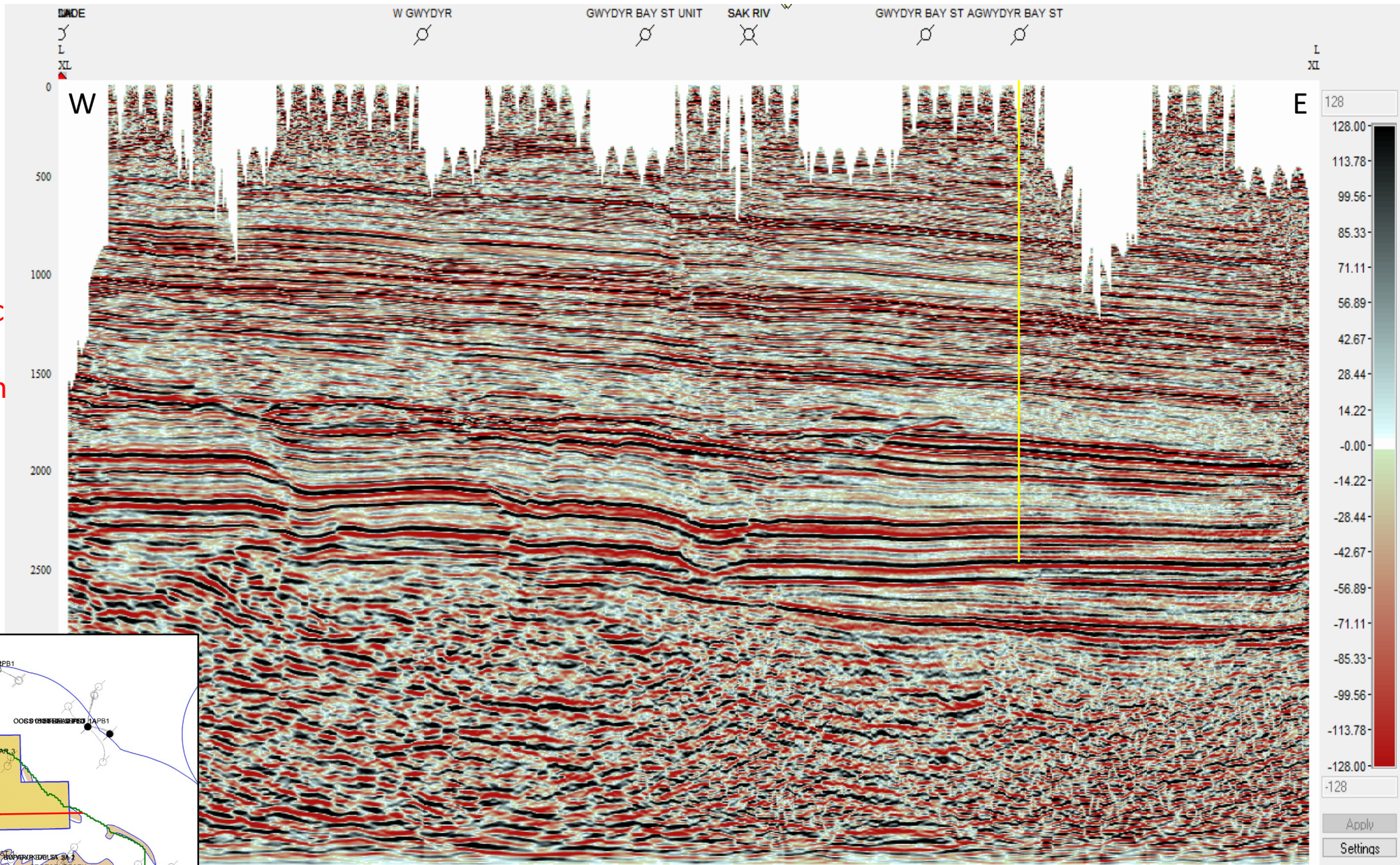


<http://www.petroleumnews.com/cgi-bin/start.cgi/petroleumnewslogin.html> (click)

[North Shore 3D
GMC information
sheet \(click here\)](#)

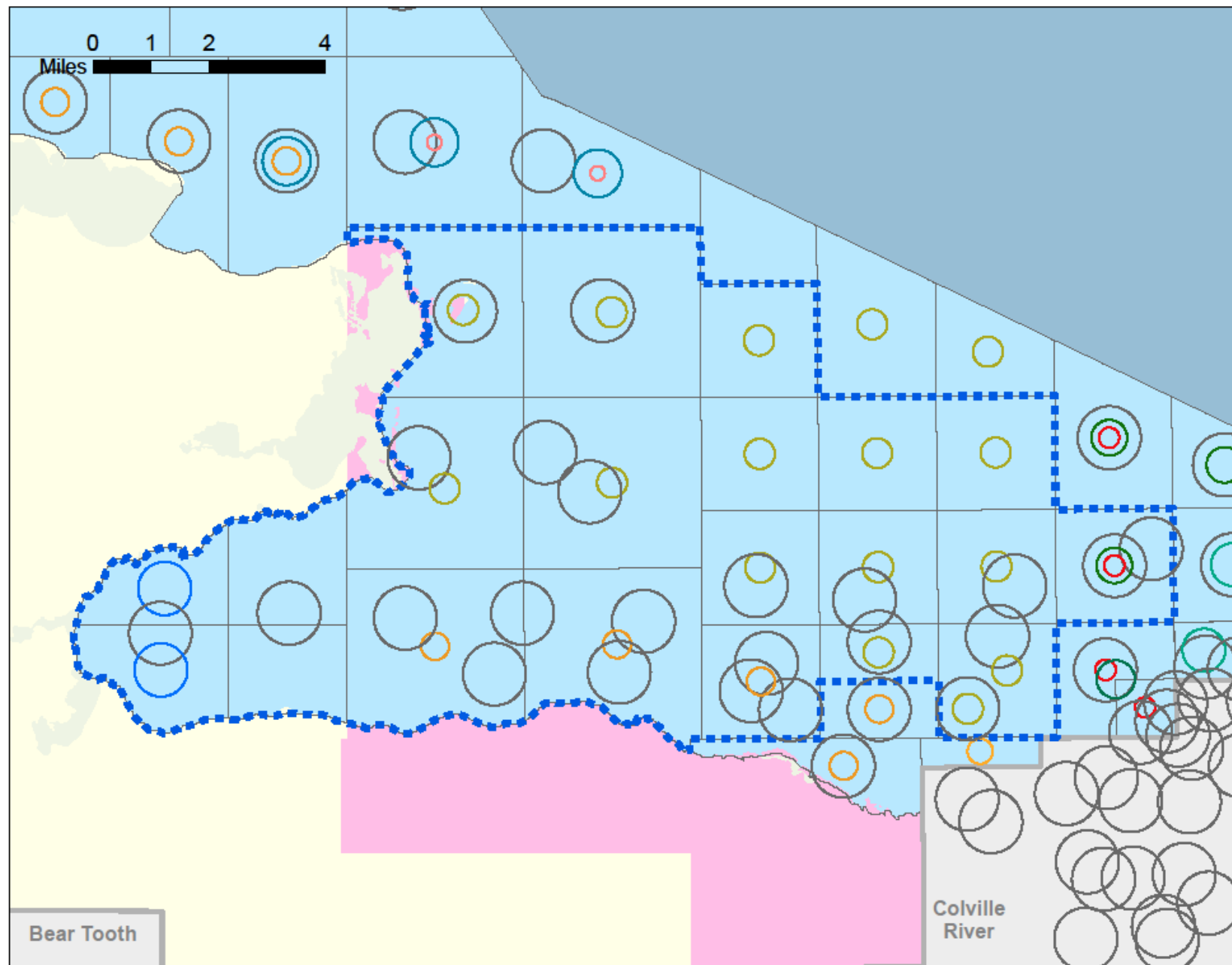
An example of the
North Shore 3D seismic
Released under the
SOA Tax Credit Program

<http://dggs.alaska.gov/gmc/seismic-well-data.php>
For info on available seismic data



Filtered Time Migrated Full Stack Northshore 3D

[Disclaimer \(click\)](#)



SALSA Bid History Harrison Bay Fall 2018

- Harrison Bay Lease Sale Block
- Lease Sale Tract
- Unit Boundary
- Unleased State-Owned Oil and Gas
- Native Land
- Federal Land

Bid by Lease Sale Year

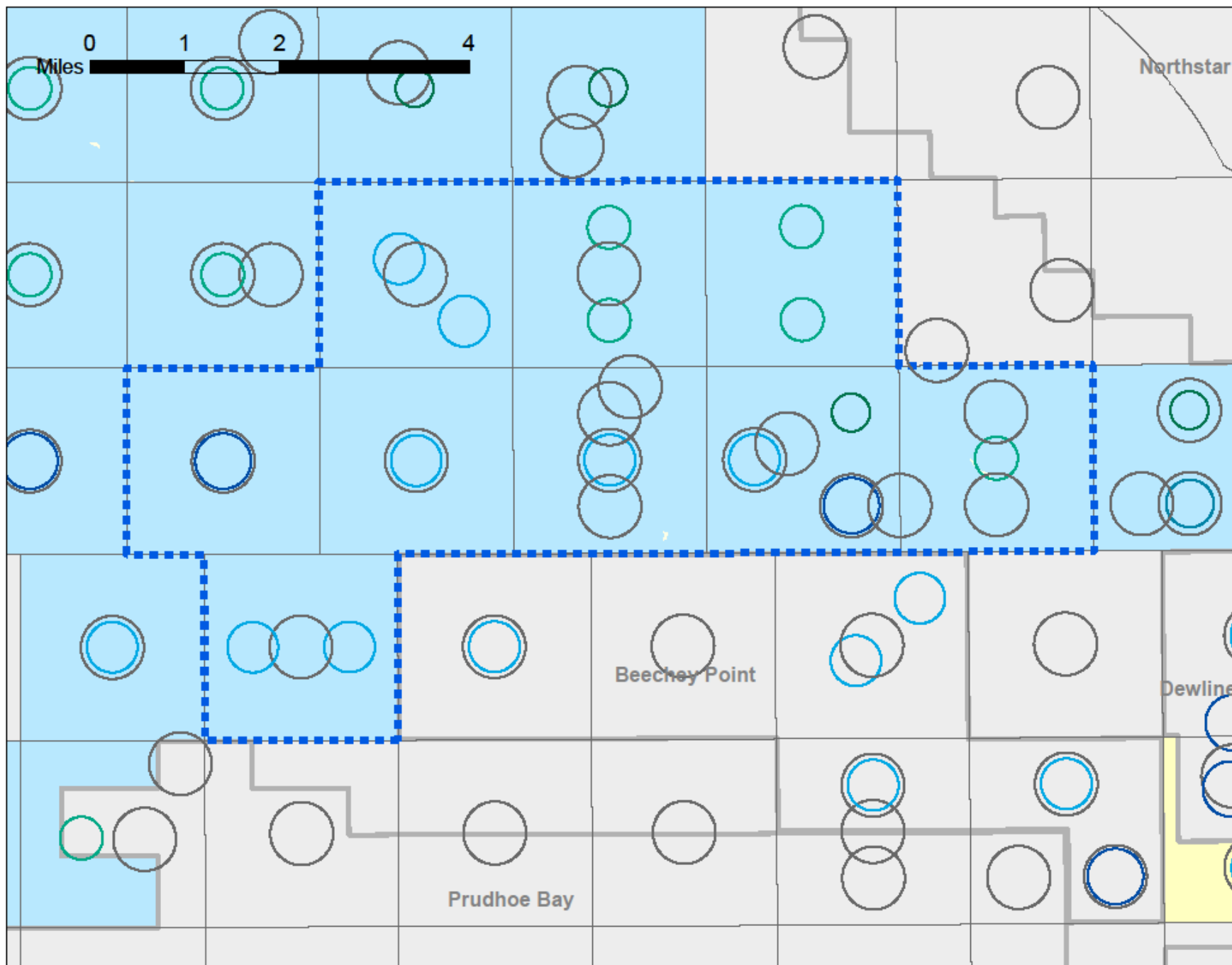
- 2016
- 2014
- 2012
- 2011
- 2010
- 2008
- 2007
- 2006
- 2004
- 2002
- Pre-Areawide Sale

Example of data
Mined from
Websites for former
SALSA Block tracts

[Harrison Bay SALSA
Lease History Info
\(click\)](#)
see red note on file

**SALSA Harrison Bay
Bidding History**

[Disclaimer \(click\)](#)



SALSA Bid History Gwydyr Bay Fall 2018

- Gwydyr Bay Lease Sale Block
- Lease Sale Tract
- Unit Boundary
- State Oil and Gas Lease
- Unleased State-Owned Oil and Gas

Bid by Lease Sale Year

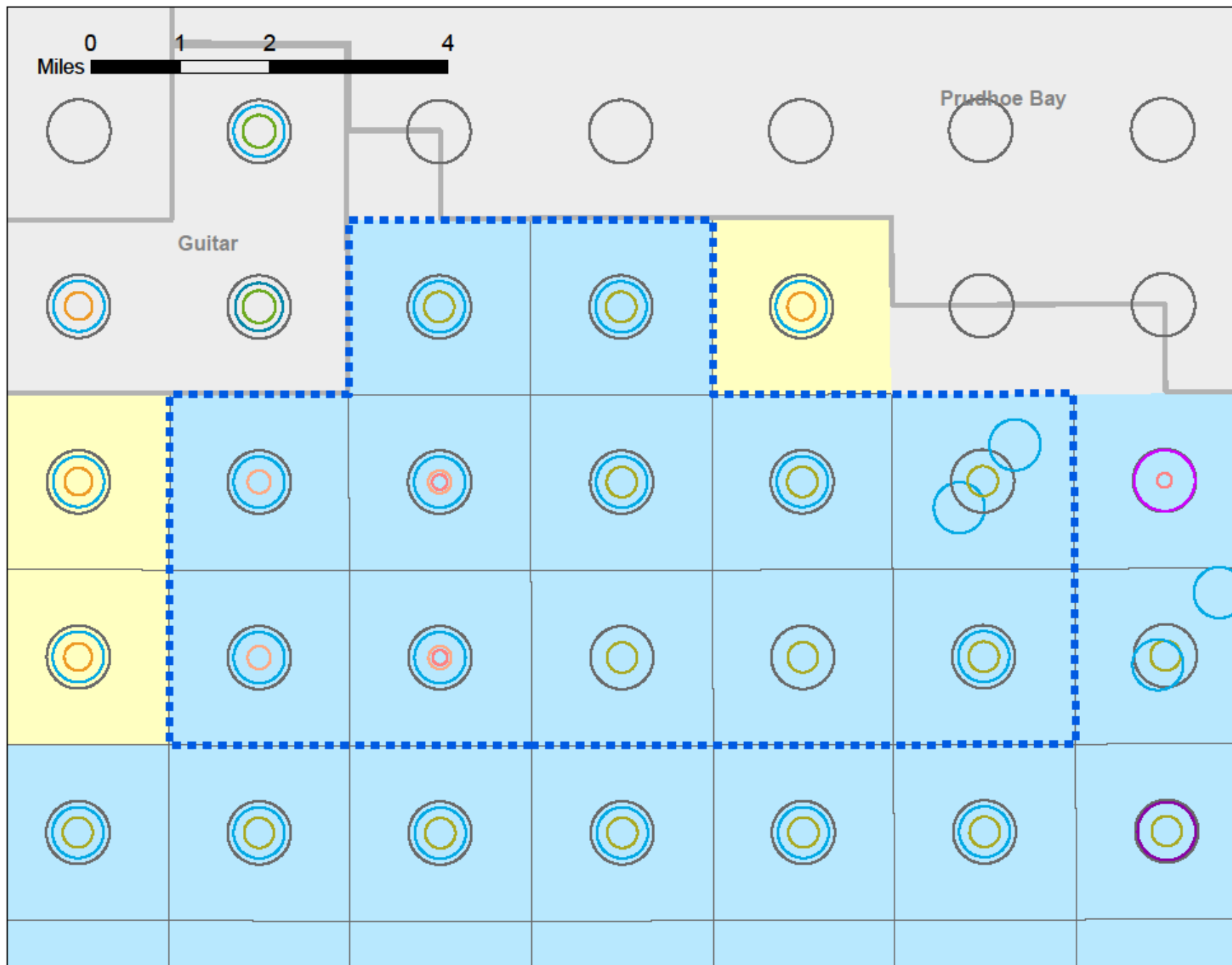
- 2011
- 2007
- 2006
- 2004
- 2003
- 2001
- Pre-Areawide Sale

Example of data
Mined from
Websites for former
SALSA Block tracts

[Gwydyr Bay SALSA
Lease History Info
\(click\)](#)
see red note on file

**SALSA Gwydyr Bay
Bidding History**

[Disclaimer \(click\)](#)



SALSA Bid History Storms Fall 2018

- Storms Lease Sale Block
- Lease Sale Tract
- Unit Boundary
- State Oil and Gas Lease
- Unleased State-Owned Oil and Gas

Bid by Lease Sale Year

- 2016
- 2013
- 2011
- 2010
- 2009
- 2004
- 2003
- 2000
- 1999
- Pre-Areawide Sale

Example of data
Mined from
Websites for former
SALSA Block tracts

[Storms SALSA
Lease History Info
\(click\)](#)
see red note on file

**Bidding History
SALSA Storms**

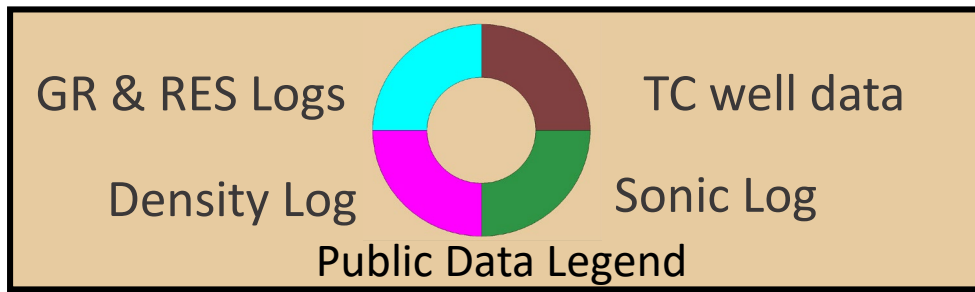
[Disclaimer \(click\)](#)

Tools for more information on Leases

DNR provides online tools for researching land title, lease status, leasing history, and recorded documents within a lease sale tract (LST) or meridian, township, range, and section (MTRS). The US Department of Interior Bureau of Land Management (BLM) provides tools for researching land title and federal land surveys by MTRS. In addition, DO&G physical case files for oil and gas leases may be reviewed on request. Call (907)269-8800 or email dog.leasing@alaska.gov for more information. These online research tools are available at:

- DNR Land Administration System (LAS) – <http://dnr.alaska.gov/projects/las/>
- DNR Land Records – <http://dnr.alaska.gov/landrecords/>
- DNR Alaska Mapper – <http://dnr.alaska.gov/mapper/>
- DNR Recorder's Office – <http://dnr.alaska.gov/ssd/recoff/>
- BLM Spatial Data Management System (SDMS) – <https://sdms.ak.blm.gov/sdms/>

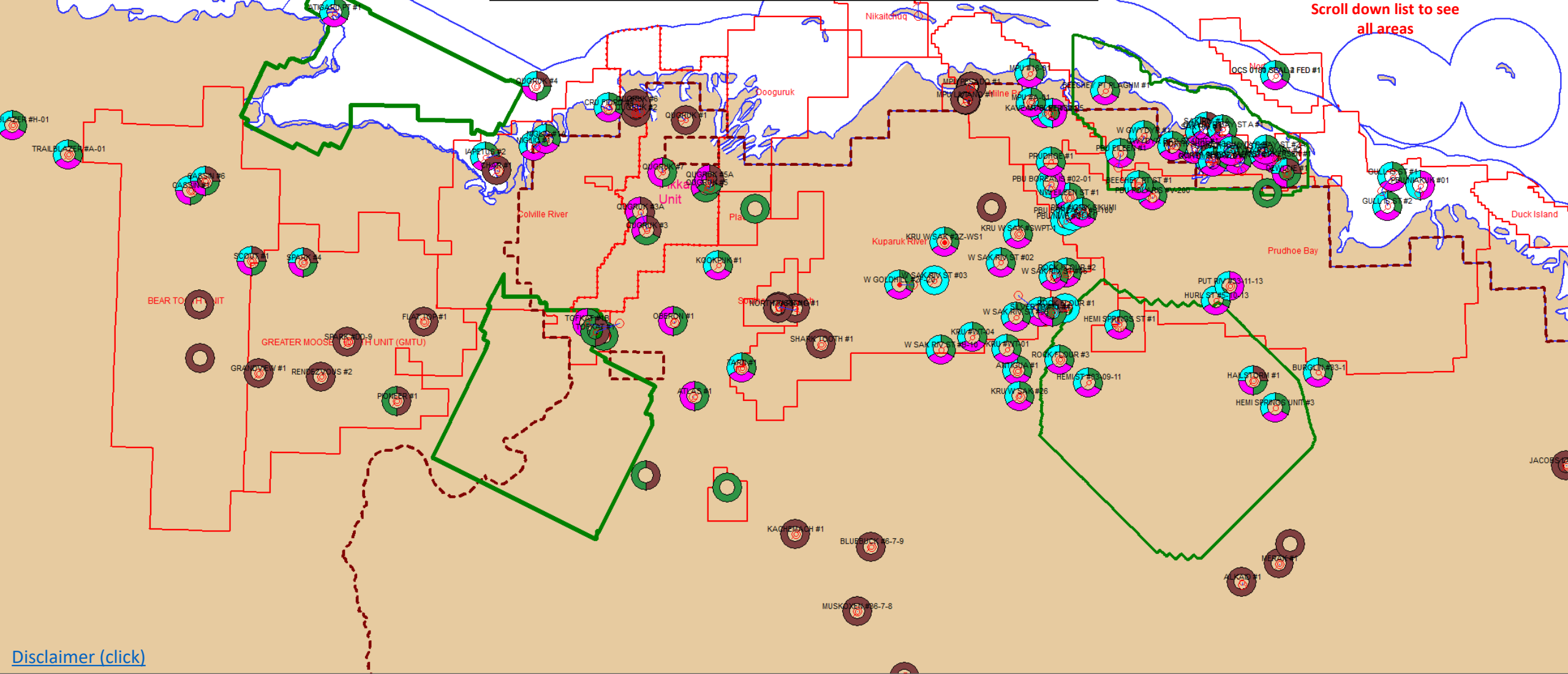
Public Well Data



Symbols indicate presence of log in well **not** necessarily in all runs. For list ([click](#))

SALSA Public Log Data

**Scroll down list to see
all areas**



[Disclaimer \(click\)](#)

Requesting Data from AOGCC

Digital Well Logs

Digital data from wells on State lands can be obtained by contacting AOGCC Customer service.

Note: Please submit a completed data request form attached to your request.

Data Request Form: <http://doa.alaska.gov/ogc/data/DataReqst.pdf>

AOGCC Website: <http://doa.alaska.gov/ogc/>

Fill out the data request form

Provide well name and either API number or permit to drill (PTD) number

Additional wells (13+) should be attached in an excel file

A maximum of 30 wells may be requested per form

Email the signed request form to **aogcc.customer.svc@alaska.gov**

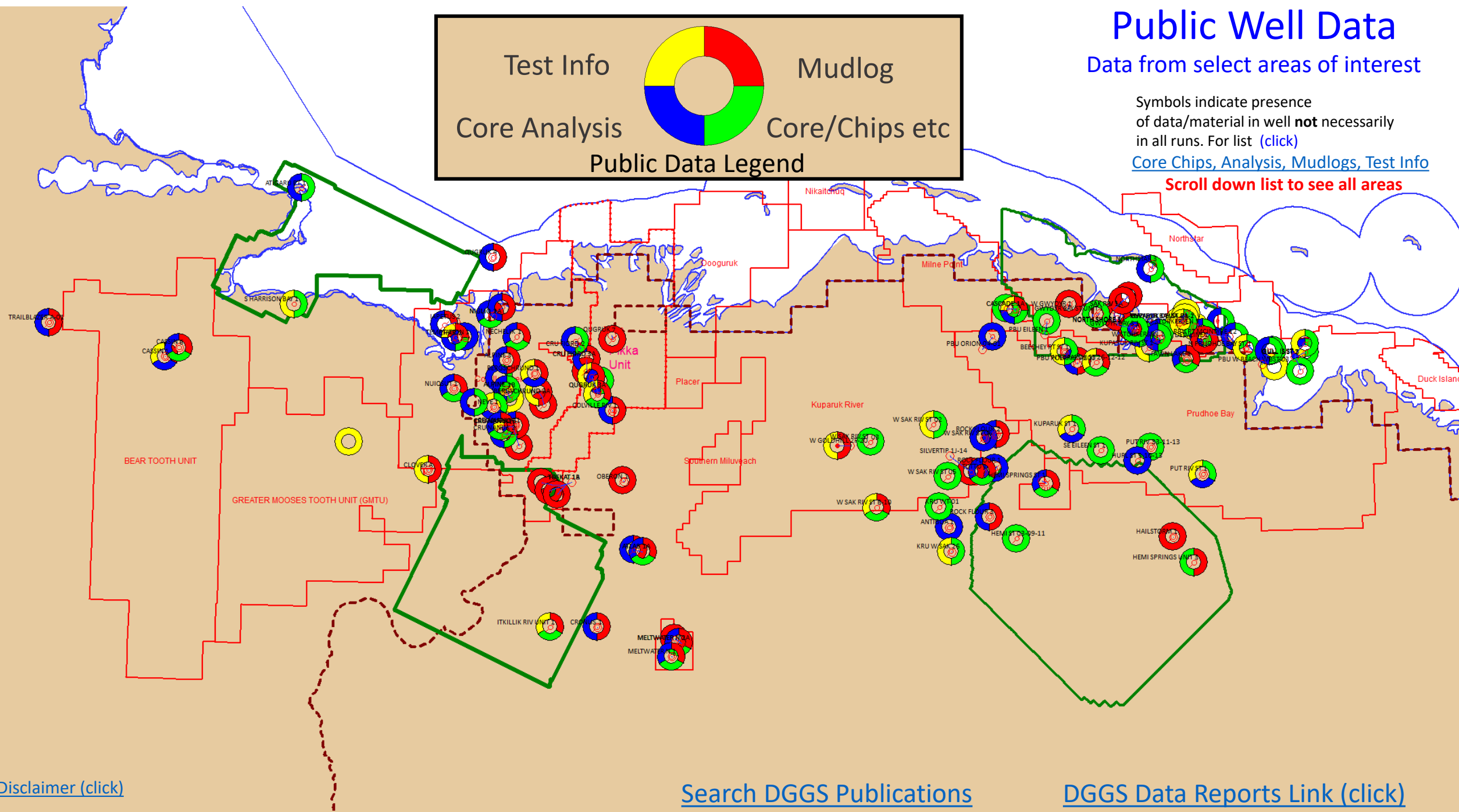
The AOGCC also provides a complete copy of all public digital log data with a catalog. The copy requires an empty 3TB hard drive, Windows formatted, with a USB 3.0 connection.

The AOGCC has 10 business days to respond to a public data request

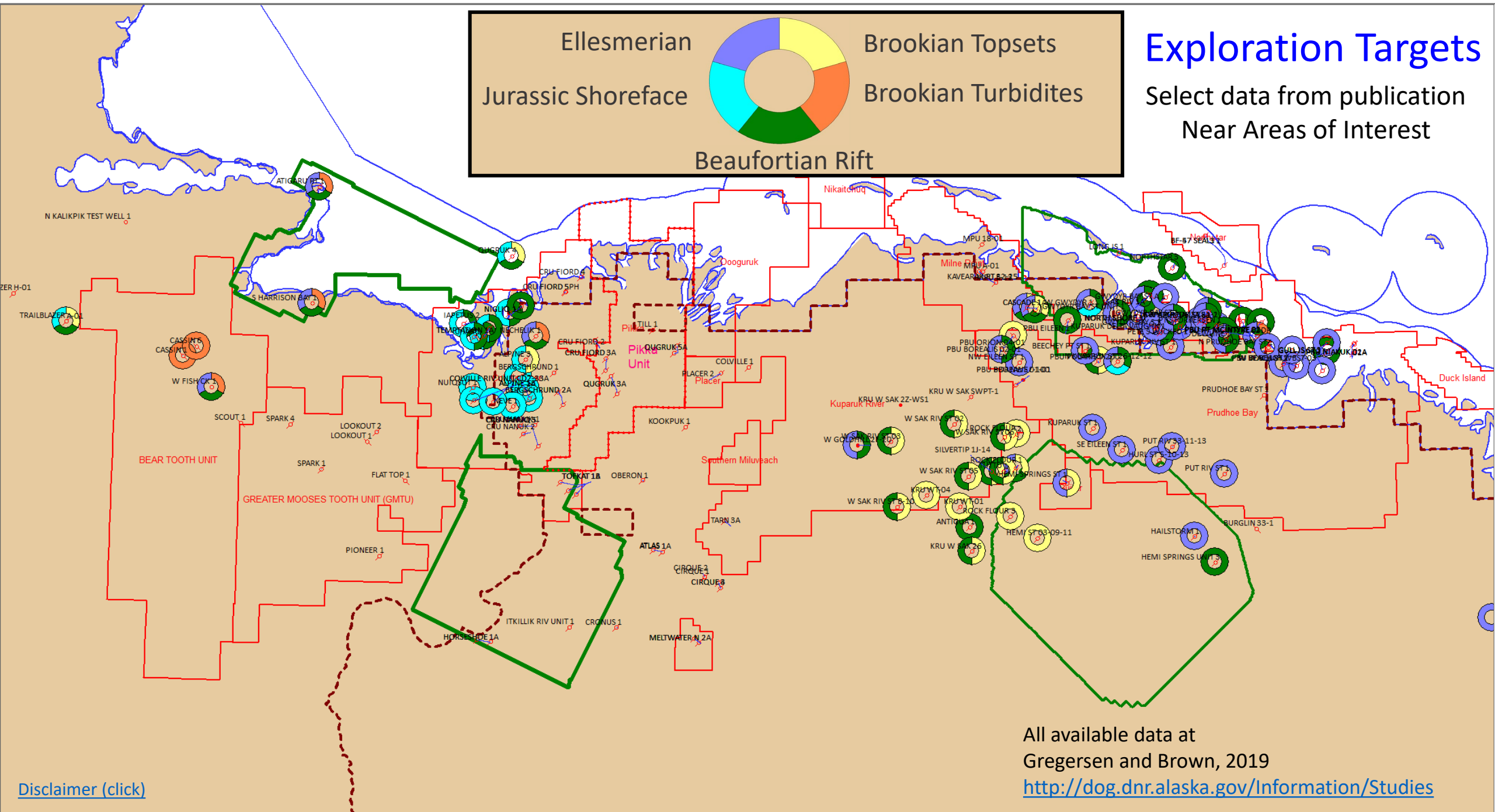
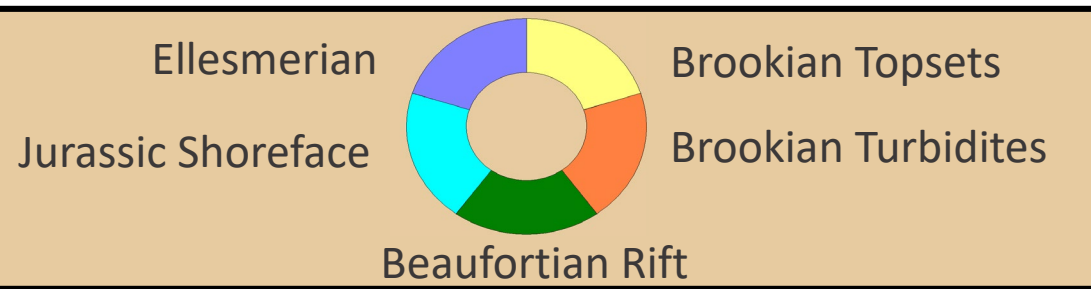
Data from select areas of interest

Core Chips, Analysis, Mudlogs, Test Info

Scroll down list to see all areas

[Search DGGS Publications](#)

[DGGs Data Reports Link \(click\)](#)



All available data at
Gregersen and Brown, 2019
<http://dog.dnr.alaska.gov/Information/Studies>

Tax Credit Well Data

For Updates

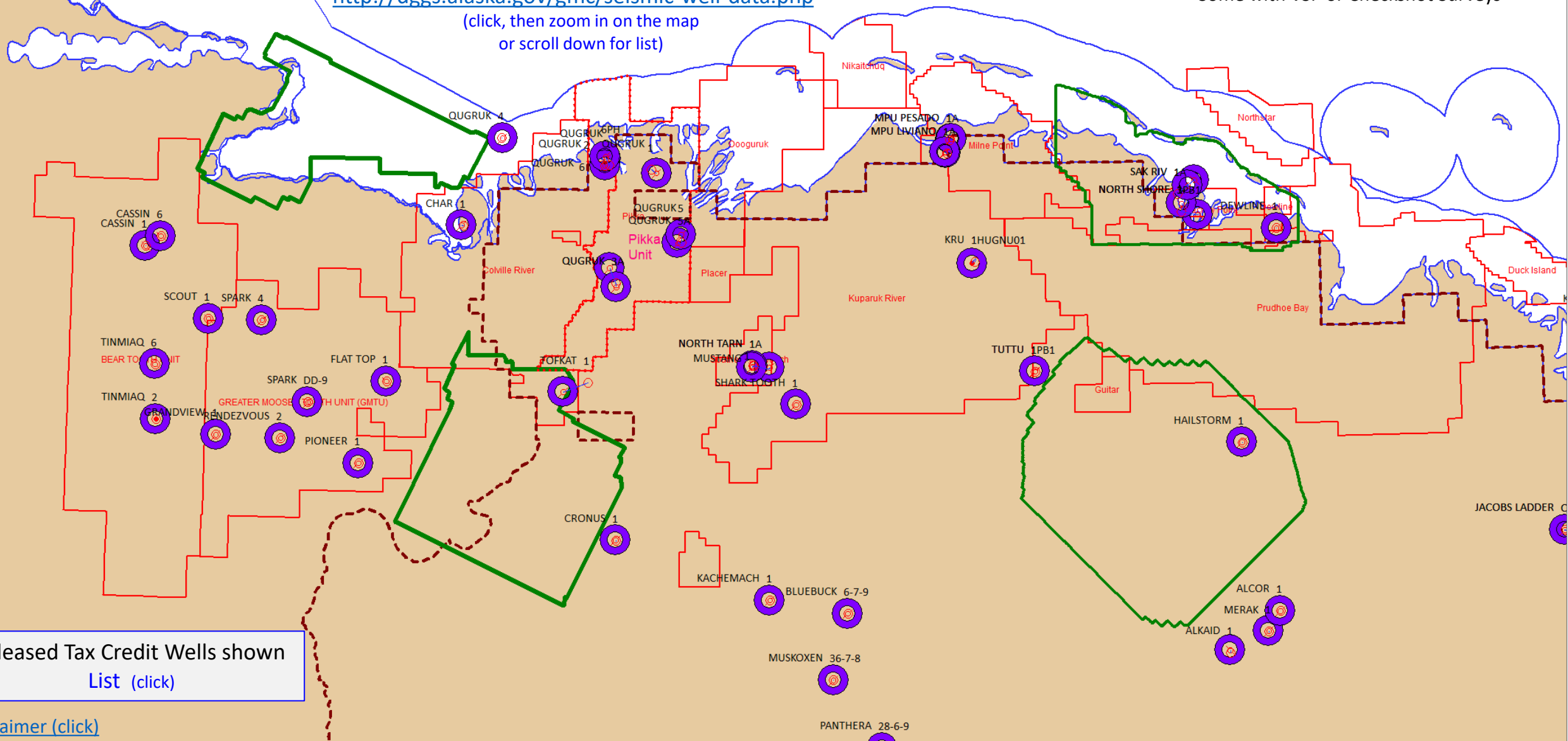
<http://dggs.alaska.gov/gmc/seismic-well-data.php>

(click, then zoom in on the map
or scroll down for list)

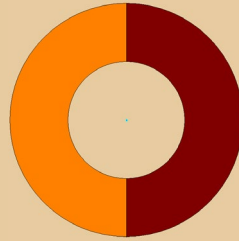
TC status

Released

*Some with VSP or Checkshot Surveys



VSP Released

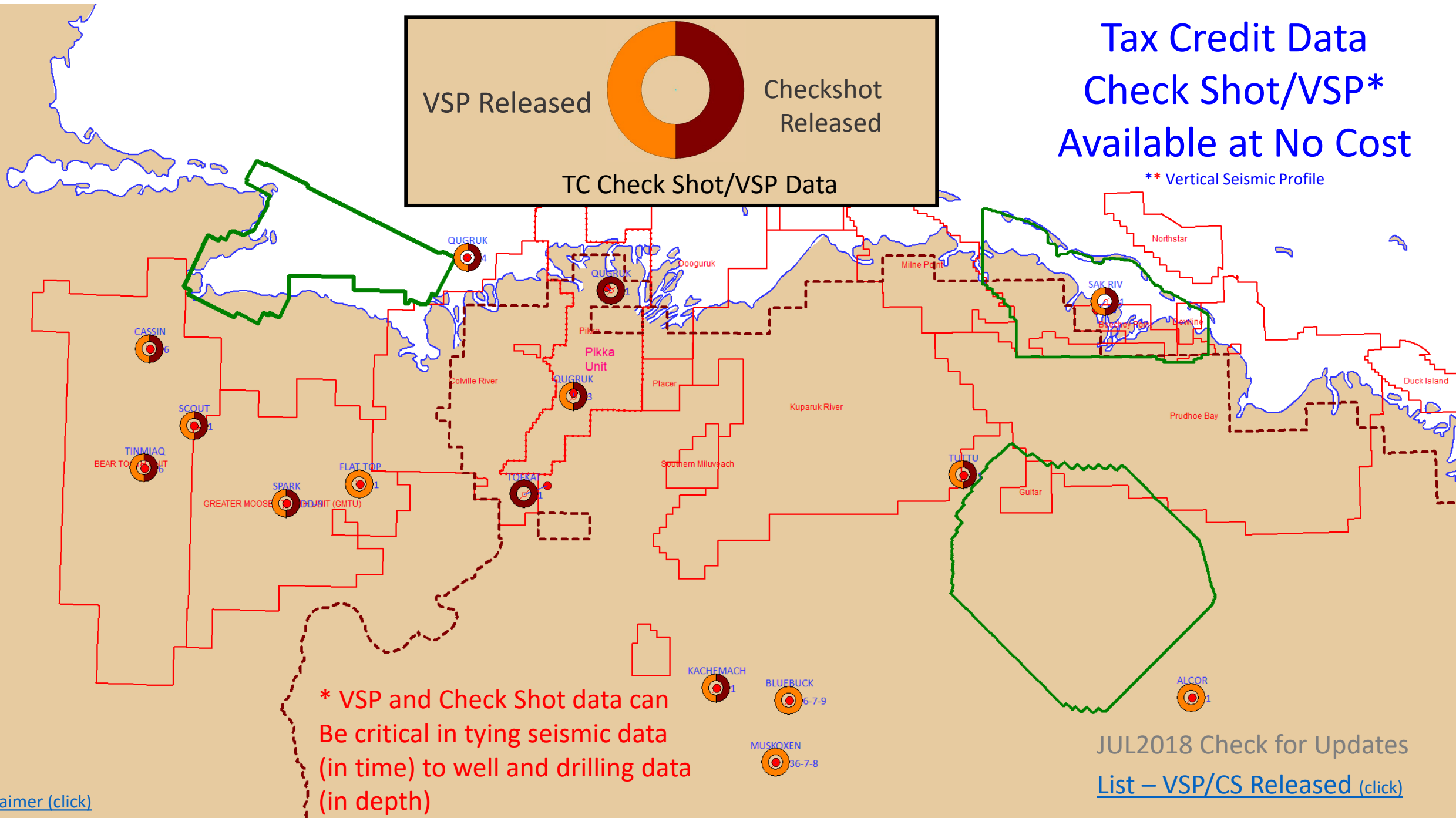


Checkshot
Released

TC Check Shot/VSP Data

Tax Credit Data Check Shot/VSP* Available at No Cost

* Vertical Seismic Profile



* VSP and Check Shot data can
Be critical in tying seismic data
(in time) to well and drilling data
(in depth)

JUL2018 Check for Updates

[List – VSP/CS Released \(click\)](#)

Is there more information?



U.S. Geological Survey 2005 Oil and Gas Resource Assessment of the Central North Slope, Alaska: Play Maps and Results

*By Christopher P. Garrity, David W. Houseknecht, Kenneth J. Bird, Christopher J. Potter,
Thomas E. Moore, Philip H. Nelson, and Christopher J. Schenk*

<https://pubs.usgs.gov/of/2005/1182/>
(click)

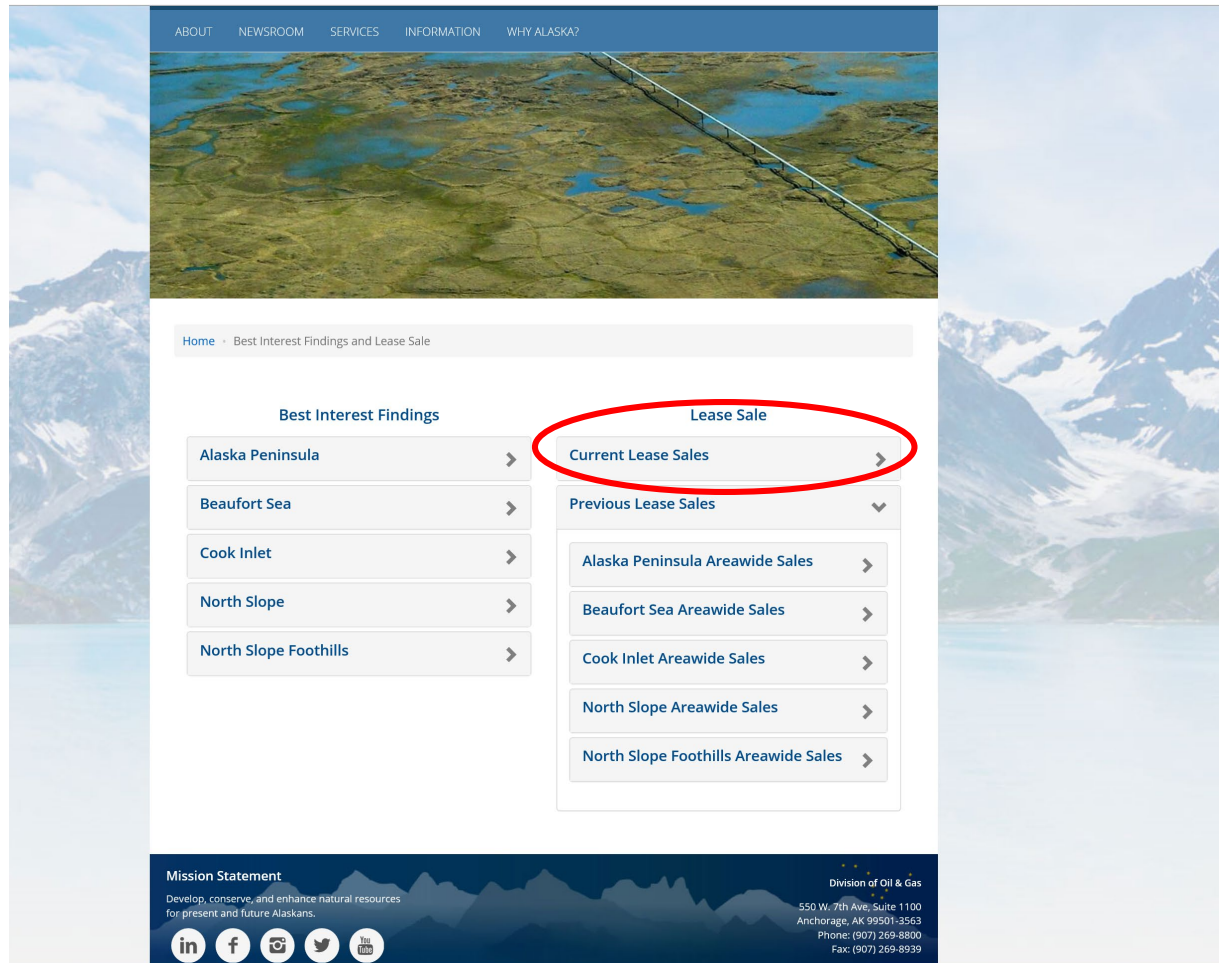
New assessment coming soon
Check USGS website

Any use of trade, firm, or product names is for descriptive purposes only and does not
imply endorsement by the U.S. Government

Open-File Report 2005-1182

Official Lease Sale Terms & Conditions Notification information

[DOG Best Interest Findings \(BIF\) and Lease Sale Page](#)



Need more information?

Your best bet is to follow the links,
contact the agency that holds the data
and if you still have a question contact
the SALSA team at the Division of Oil & Gas
at :

DOG-SALSA@alaska.gov

Disclaimer: This summary was created, edited, and published by the State of Alaska, Department of Natural Resources, Division of Oil and Gas, and is for public informational purposes only. The summary is not intended to be a comprehensive description of resource potential or data products that may be publicly available. The summary and data products described therein should not be considered exhaustive or warranted for any use, including making any decision to participate in a competitive oil and gas lease sale, pursue an assignment of an interest in an oil and gas lease, or make any other type of investment. Further, the summary is not intended as a sale notice and does not alter or affect the Department's authority under applicable law and regulations to defer tracts, reject bids or issue leases only after completion of an appropriate title review.

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END