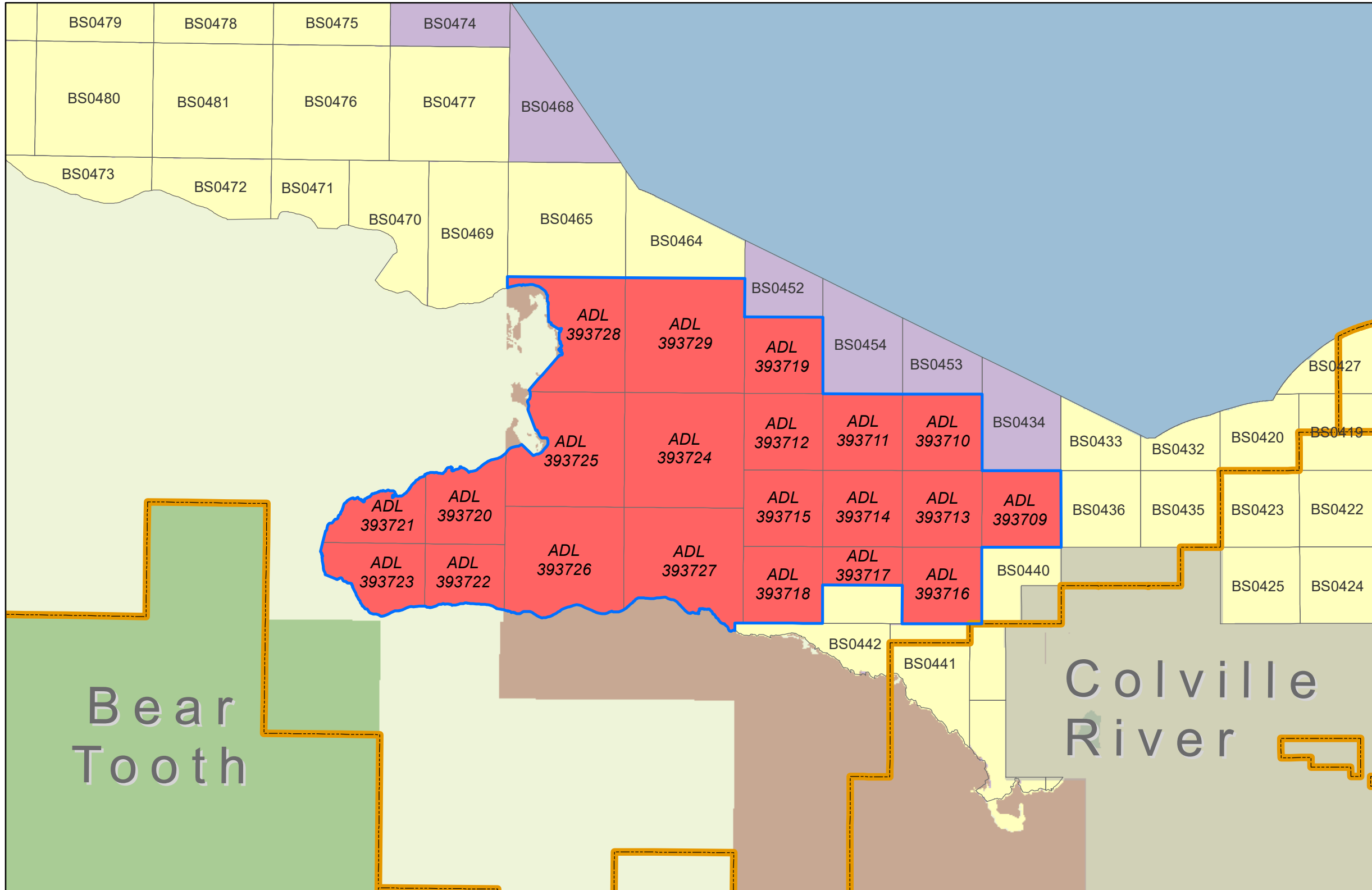
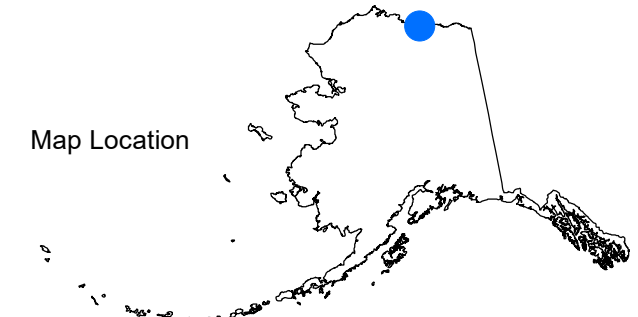


# Harrison Bay Block Competitive Oil and Gas Lease Sale

August 17, 2018

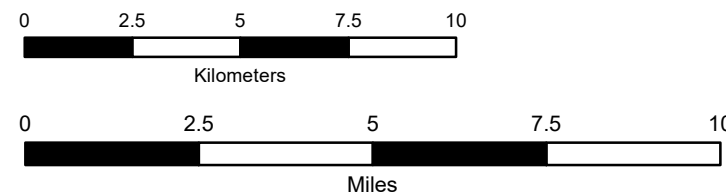


- Current State Oil and Gas Lease
- Block
- Lease Offered in Block
- Unleased State-Owned Land
- LeaseSaleTract
- Unit Boundary
- Federal Land
- Native Land
- Non-State Oil and Gas Lease



This map was created, edited, and published by the State of Alaska, Department of Natural Resources, Division of Oil and Gas, and is for informational purposes.

The State of Alaska makes no expressed or implied warranties (including warranties of merchantability and fitness) with respect to the character, function, or capabilities of this product or its appropriateness for any user's purposes. In no event will the State of Alaska be liable for any incidental, indirect, special, consequential or other damages suffered by the user or any other person or entity whether from use of the product, any failure thereof or otherwise, and in no event will the State of Alaska's liability to you or anyone else exceed the fee for the product.



Complete details about this oil and gas lease sale are available online at [dog.dnr.alaska.gov](http://dog.dnr.alaska.gov), by phone to (907)269-8800 or email to [dog.leasing@alaska.gov](mailto:dog.leasing@alaska.gov).

This map shows general mineral estate ownership, oil and gas lease activity, and lease sale tract boundaries. This information is current as the date above and is subject to change. Detailed land status, ownership, and land survey information are available at State of Alaska Department of Natural Resources [dnr.alaska.gov](http://dnr.alaska.gov) and US Department of Interior Bureau of Land Management [sdms.ak.blm.gov](http://sdms.ak.blm.gov)

Geospatial data shown on this map are maintained by the Department of Natural Resources Support Services Division and Division of Oil and Gas. Data are in North American Datum 1983, Alaska Albers projection and may have section-level resolution. The use of multiple data sets with varying sources and resolution may result in discrepancies in boundary alignments.



August 17, 2018

**SALE ANNOUNCEMENT AND INSTRUCTIONS TO BIDDERS  
HARRISON BAY BLOCK  
COMPETITIVE OIL AND GAS LEASE SALE**

The Alaska Department of Natural Resources (DNR), Division of Oil and Gas (DO&G), announces the public bid opening for the Harrison Bay Block Competitive Oil and Gas Lease Sale will be held at 9:00 a.m. on Thursday, November 15, 2018.

**Block Location**

The Harrison Bay Block encompasses 66,275.28 acres of state-owned tide and submerged lands in 21 leases in the Beaufort Sea Areawide. The Block is located northwest of the Colville River Unit and southeast of Smith Bay along the National Petroleum Reserve – Alaska.

The Block offered in this sale are contiguous, State-owned lands where geological and seismic data are available to the public. The Division has not identified and analyzed prospects on the Block. Sale terms and conditions for the Block require a minimum work commitment.

**Sale Dates**

- Block map available – On or after Friday, August 17, 2018
- Last day for acreage to be included in lease sale – Friday, September 14, 2018
- Deadline to qualify to bid – Friday, November 9, 2018
- In-person bid submission – Tuesday, November 13, 2018 from 9:00 a.m. to 4:00 p.m.
- Deadline for DO&G to receive all bids – Tuesday, November 13, 2018 at 4:00 p.m.
- Deadline to withdraw bid – Tuesday, November 13, 2018 at 4:00 p.m.
- Public bid opening – Thursday, November 15, 2018 from 9:00 a.m. until all bids are read
- In-person pick-up of bid deposits for unsuccessful bids – Friday, November 16, 2018 from 9:00 a.m. until 3:00 p.m.
- Return of bid deposits for unsuccessful bids – Friday, November 16, 2018 at 3:00 p.m.

**Sale Locations and Addresses**

- Address for mailing bids or sending by delivery service – DNR Division of Oil & Gas, Attn: Lease Sale, 550 W 7<sup>th</sup> Avenue, Suite 1100, Anchorage, Alaska 99501-3563
- In-person bid submission – Atwood Building, 550 W 7<sup>th</sup> Avenue, Suite 1100, Anchorage, Alaska
- Public bid opening – Kahtnu 1 Meeting Room, Dena'ina Center, 600 W 7<sup>th</sup> Avenue, Anchorage, Alaska
- In-person pick-up of bid deposits – Atwood Building, 550 W 7<sup>th</sup> Avenue, Suite 1100, Anchorage, Alaska

**Sale Documents**

The following documents are available at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>.

- Notice of Sale
- Sale Announcement and Instructions to Bidders
- Attachment A with Block lease legal descriptions
- Lease Forms

- Mitigation Measures
- Bid Form for Areawide Oil & Gas Lease Sale (Revised 8/2018)
- Block Map (Available on or after Friday, August 17, 2018)

Printed copies of these documents are available for a fee. Printed copies of the map can be ordered for \$50.00. To order any of these documents, please contact:

Leasing Section  
 Alaska Department of Natural Resources  
 Division of Oil and Gas  
 550 West 7<sup>th</sup> Avenue, Suite 1100  
 Anchorage, AK 99501-3563  
 Phone: (907) 269-8800  
 Email: [dog.leasing@alaska.gov](mailto:dog.leasing@alaska.gov)

Copies of these documents have been provided to the following locations:

Nuiqsut Trapper School Community Library, Nunamiut School Library in Anaktuvuk Pass, Harold Kaveolook School Library in Kaktovik, Meade River School Library in Atqasuk, Tuzzy Consortium Library in Barrow, Alaska Resource Library & Information Services, Z.J. Loussac Public Library in Anchorage, and the Alaska State Library in Juneau.

If you are unable to access this information, call (907) 269-8800 or email [dog.leasing@alaska.gov](mailto:dog.leasing@alaska.gov). You may subscribe to lease sale email announcements at <http://list.state.ak.us/mailman/listinfo/DOG.Leasing>.

### **Acreage Offered in Blocks**

This Block is a group of leases offered as an auction lot. DO&G will only accept bids on the entire block; bids on individual leases or Areawide lease sale tracts within the Block will be rejected. A block map displaying the location of the leases offered will be released according to the **Sale Dates** section of this document. The block map will also show general land ownership and lease status.

DO&G will award multiple leases in the block. State-owned lands available for oil and gas leasing in the block have been determined as land status, ownership and acreage within leases were adjudicated, that is, verified. The lands available for leasing are listed in Attachment A with lease legal descriptions.

DNR provides online tools for researching land title, lease status, leasing history, and recorded documents within a Block or 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](mailto: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/controller>
- DNR Recorder's Office – <http://dnr.alaska.gov/ssd/recoff/>
- BLM Spatial Data Management System (SDMS) – <http://sdms.ak.blm.gov/>

DO&G has provided additional information on oil and gas resource data available from public sources for this block. Please visit <http://dog.dnr.alaska.gov/Documents/ResourceEvaluation/Salsa/SALSA> for **PUBLIC JUL18 FINAL-LIVE.pdf** for more information.

### **Acreage Deferred or Deleted from Sale**

Deferred or deleted acreage will not be offered for lease in this sale, but may be included in future lease sales.

DO&G reserves the right to delete or defer any acreage from the sale at any time prior to issuance of the leases.

Deferred or deleted acreage will be listed on Attachment A of the Sale Announcement and Instructions to Bidders. Check <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale> for updated Attachment A documents.

Bids on acreage deferred or deleted prior to bid submission will not be accepted, opened, or read at the sale.

Bids on acreage deferred or deleted after bid opening will be returned along with the bid deposit. The bid will not have priority over later bids when the acreage is returned to sale, nor will the returned bid be valid for future lease sales.

### **Sale Terms and Conditions**

The bidding method, minimum bid, and terms and conditions are shown in the following table. Bids for less than the minimum per-acre bid will be rejected. Leases will be executed on the oil and gas lease form specified below. Sample lease forms are available at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>.

Harrison Bay Block Competitive Oil and Gas Lease Sale Terms and Conditions						
Bid Variable	Minimum Bid	Royalty Rate	Primary Lease Term	Annual Rental Rate	Work Commitment+	Lease Form
Cash Bonus	\$25.00 per acre	16.66667% Fixed	8 Years*	Years 1-8: \$10.00 per acre	Drill Well to Depth by 6 <sup>th</sup> Anniversary as Described in Lease Paragraph 9	DOG 201808W H
*Under AS 38.05.180(m), state oil and gas leases may receive a one-time lease extension under certain conditions.						
+State oil and gas lease work commitment terms may be modified under certain conditions. AS 38.05.180(h) and 11 AAC 83.700-.705.						

### **Lease Provision Changes**

The lease form listed in the **Sale Terms and Conditions** section of this document include changes from lease form DOG 201710W most recently used by the Division.

The following lease provision was deleted with re-numbering of subsequent sections:

1. GRANT(b)

The following lease provisions were added with re-numbering of subsequent sections:

9. WORK COMMITMENT

The following lease provisions were changed, with new section numbers:

10. PLAN OF OPERATIONS (d)(5)
22. RIGHTS UPON TERMINATION (a)

## **Mitigation Measures**

AS 38.05.035(e) and the departmental delegation of authority give the Director the authority to impose conditions or limitations in addition to those required by law to ensure the disposal best serves the interests of the State. To meet this requirement, the Director has adopted mitigation measures that will be attached to the lease.

The mitigation measures that apply to leases awarded in this Block are the same as the Areawide sales in which the leases are located. The mitigation measures are available at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>.

## **Bonding**

Before beginning lease operations, an oil and gas lease bond of a minimum of \$10,000 per operation is required under 11 AAC 83.160. Alternatively, a statewide oil and gas lease bond of a minimum of \$500,000 for operations conducted on more than one lease may be filed. These bonding provisions do not affect the commissioner's authority to require additional unusual risk bonds as may be necessary. In addition, the Alaska Oil and Gas Conservation Commission (AOGCC) requires a bond of at least \$100,000 for a single well or a bond of at least \$200,000 to cover wells statewide before drilling operations will be permitted by that entity (20 AAC 25.025). Additional bonding may be required under 11 AAC 82.465, 11 AAC 82.600, 11 AAC 82.615, 11 AAC 83.390 and 11 AAC 96.060, lease provisions in Paragraph 21(b), and applications approved under AS 38.05.180(m) and 11 AAC 83.705.

## **Best Interest Finding to Offer Oil and Gas Leases**

This lease sale is being held under AS 38.05.035(e) and AS 38.05.180. Under these statutes, land that is subject to a best interest finding issued within the previous 10 years may be offered for oil and gas leasing. The finding sets forth the facts, policies, and applicable laws and regulations upon which the Director based his determination that oil and gas lease sales in an Areawide sale will best serve the interests of the State. Every year the Director requests substantial new information that may justify a supplement to the finding and issues a response to information received.

Best interest findings and supplements can be found at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>. If you are unable to access this information, call the Leasing Section at (907)269-8800 or email [dog.bif@alaska.gov](mailto:dog.bif@alaska.gov).

Beaufort Sea Areawide Oil and Gas Lease Sale Best Interest Findings for this Offering	
<i>Date</i>	<i>Decision Document</i>
November 9, 2009	Final Finding of the Director
July 8, 2010	Decision of Substantial New Information and Supplement to the 2009 Beaufort Sea Areawide Final Finding of the Director
July 14, 2011	Decision of Substantial New Information and Supplement to the 2009 Beaufort Sea Areawide Final Finding of the Director
July 13, 2012	Decision of No Substantial New Information
July 1, 2013	Decision of No Substantial New Information
June 25, 2014	Decision of No Substantial New Information
June 12, 2015	Decision of No Substantial New Information
June 24, 2016	Decision of No Substantial New Information
June 15, 2017	Decision of No Substantial New Information
May 1, 2018	Decision of Supplement for the 2018 Beaufort Sea Areawide Lease Sale and No Substantial New Information

## **Qualification of Bidders**

Bidders must qualify with DO&G in accordance with 11 AAC 82.200-.205 and Division instructions before the deadline specified in the **Sale Dates** section of this document. Corporations, partnerships, joint ventures, limited liability companies, and other business entities must also be qualified with the Alaska Department of Commerce, Community and Economic Development (DCC&ED) to do business in Alaska prior to the qualification deadline.

Information on qualifying to bid in a lease sale is available at <http://dog.dnr.alaska.gov/Services/Applications>. For additional information on qualifying, please call (907) 269-8800, or email [dog.qualifications@alaska.gov](mailto:dog.qualifications@alaska.gov).

Information on how to qualify with DCC&ED and obtain copies of certificates is available from DCC&ED at <https://www.commerce.alaska.gov/web/cbpl/Corporations.aspx>. For additional information on these requirements, please call the Corporations Section at (907) 465-2550 or email [corporations@alaska.gov](mailto:corporations@alaska.gov).

**Qualification information and supporting documents must be on file with DO&G no later than specified in the Sale Dates section of this document. It is the bidder's responsibility to ensure that all qualification requirements are met. Failure to provide DO&G with qualification information or documents may result in rejection of bids.**

### **Preparing Bids for Submission**

Bidders with questions about submitting bids are encouraged to contact DO&G at the information provided under the Sale Documents section of this document. Bids accompanied by incomplete bid forms may be rejected. Under 11 AAC 82.445, a bid will not be considered unless supported by the bid deposit and the information required in the bid form, unless any omission is determined by the commissioner or his designee to be immaterial or due to excusable inadvertence, and the omission is corrected within one week following receipt of a notice of deficiency.

1. *Bid form.* Bids for this lease sale must be submitted on the form Bid Form for Areawide Oil & Gas Lease Sale specified in the Sale Documents section of this document, or an exact copy of that form. The bid form can be downloaded at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>.
2. *Competitive areawide oil & gas lease sale name.* Include the Areawide lease sale area name with year.
3. *Lease Sale Tract (LST).* Specify the Block you are bidding on as listed on Attachment A. Blocks have a single, unique LST number listed on Attachment A for the purposes of submitting a bid.
4. *Lease interest percentages.* Joint bids with fractional lease interests must include lease interest percentages expressed in decimals of no more than five digits without rounding. The sum of all ownerships for each bid must equal 100.00000 percent. The lease interest percentage for a sole bidder is 100.00000.
5. *Qualification file number.* The qualification file number is the number assigned to a corporation, partnership, or joint venture when initial qualification requirements are met. Individuals are not assigned qualification numbers and may leave this line blank. Qualification file numbers are available on the Business Qualifications report at <http://dog.dnr.alaska.gov/Information/Data>.
6. *Bidder name.* Include the name of the bidding individual or bidding entity name. If more than one person or entity is submitting a joint bid, all bidders must be listed and sign the bid form. Under 11 AAC 82.430, joint bids must disclose, and the bid form must be signed by or on behalf of, each person or entity that has any working interest in the bid or who will receive any working interest in any lease issued in this sale by virtue of any agreement or understanding, oral or written.
7. *Individual bidder or bidder agent authorized signature.* The individual bidder or authorized bidder agent signs the top line. Include the name and title of the bidder agent authorized to sign for an entity, if applicable, on the line immediately below.
8. *Date.* Use the date the individual bidder or bidder agent signs the bid form.
9. *Estimated Acreage.* Use the Total Acreage for the Block listed in Attachment A. Bids for less than the number of acres specified in Attachment A will be rejected.

10. *Bid Per Acre.* Enter your bid per acre. Bids for less than the minimum per-acre bid specified in Attachment A will be rejected. The Bid Per Acre controls in case of discrepancy.
11. *Estimated Bonus Bid.* Use the Total Acreage for the Block listed on Attachment A for the purposes of calculating Estimated Bonus Bid. A sample calculation for Estimated Bonus Bid is below.
12. *Minimum Bid Deposit.* Each bid must include a bid deposit equal to or greater than the Minimum Bid Deposit, which is **20% of the Estimated Bonus Bid being offered for the Block**. The bid deposit must be cash, money order, cashier's check or certified check in US dollars. Personal checks will not be accepted. Checks must be drawn on any solvent bank in the United States. Make checks and money orders payable to the "Department of Natural Resources, State of Alaska."

**Minimum Bid Deposit calculations that result in sums containing fractions of less than one dollar should be rounded up to the nearest whole dollar to ensure that a minimum of 20% of the Estimated Bonus Bid is tendered.**

**Sample calculations for Estimated Bonus Bid and Minimum Bid Deposit are below:**

Sample Bid Data						
Block	BS2018G					
Total Acreage from Attachment A	23,012 acres					
Minimum Bid Per Acre from Attachment A	\$25.00					
Bid Per Acre	\$36.00					
Estimated Acreage		Bid Per Acre			Estimated Bonus Bid	
<u>23,012</u>	<b>Acres</b>	<b>X</b>	<b>\$</b>	<u>36.00</u>	<b>/Acre</b>	<b>= \$</b> <u>828,432.00</u>
Estimated Bonus Bid			20%	Minimum Bid Deposit		
<b>\$</b>	<u>828,432.00</u>	<b>X</b>	<b>0.20</b>	<b>= \$</b>	<u>169,686.40</u>	
The recommended Minimum Bid Deposit amount after rounding up to the nearest whole dollar is \$9,704.00.						

13. *Bid Agent.* Include the contact information for the person designated to act as agent for all bidders regarding this bid.

Include instructions for the return of the bid deposit in the event the bid is unsuccessful. You may designate individuals that have the authority to pick up the bid deposit after the bid opening as described in these instructions and/or the address to which it should be returned if it is not picked up by the time and date and location specified in the **Sale Dates** and **Sale Locations and Addresses** sections of this document.

14. *Notification Lessee.* Include the bidder name and contact information for the bidder designated to act as the Notification Lessee. If it is determined that the bid is the apparent high bid and if a lease is awarded, future lease notices and correspondence will be mailed to this bidder.
15. *Delivery Address.* Include the bidder name and physical address for the bidder designated to receive private delivery or courier services. If it is determined that the bid is the apparent high bid and if a lease is awarded, an award package may be delivered to this bidder. The physical address must be a location acceptable to a private delivery or courier service, e.g. FedEx.
16. *Sealed bids.* Each bid with bid deposit must be submitted in a sealed envelope. Each envelope must contain only one bid and one bid deposit for one Block. The envelope must be marked with Block information as shown in the sample markings below. No other markings should appear on the outside of the bid envelope. The information on the bid form controls in case of discrepancy.

Sample markings for the sealed bid envelope are below:

**State of Alaska, Harrison Bay Block  
Not to be opened until 9:00 a.m., November 15, 2018, # BS2018H**

### **Bid Submission**

Bids may be submitted in person on the date and location specified in the **Sale Dates** and **Sale Locations and Addresses** sections of this document.

Mailed bids and bids sent by delivery service must be sent to the address specified in the **Sale Locations and Addresses** section of this document. Bidders are encouraged to place sealed bids in a second envelope when mailing bids or using a delivery service.

Bids must be received by DO&G no later than the deadline specified in the **Sale Dates** section of this document to be included in the public bid opening. Bids arriving by mail or delivery service prior to the bid submission date specified in the **Sale Dates** section of this document will be held by DO&G until 9:00 a.m. on bid submission day, and will be officially receipted at that time. **Bids received after the deadline specified in the Sale Dates section of this document will not be accepted, opened, or read at the sale.**

Bids on acreage deferred or deleted from the sale prior to the bid submission deadline will not be accepted, opened, or read at the public bid opening. Refer to the section **Tracts Deferred or Deleted from Sale** for more information.

A bid agent may withdraw a submitted bid prior to the date and time specified in the **Sale Dates** section of this document without forfeiting the bid deposit.

Information pertaining to the total number of bids received, total number of blocks and tracts receiving bids, and total acreage receiving bids may be released after the bid withdrawal deadline specified in the **Sale Dates** section of this document at the discretion of the Commissioner of DNR.

### **Bid Reading and Processing**

Public opening and reading of bids will be held as specified in the **Sale Dates** and **Sale Locations and Addresses** sections of this document. Bids will be processed in the following manner:

1. *Bid opening and reading.* Bid opening will start at 9:00 a.m. and will continue as long as necessary to open and read all bids. **The opening and reading of bids is for the sole purpose of publicly announcing bids received. No bids will be officially validated or rejected at this time.**
2. *Bid adjudication.* Bids will be adjudicated in DO&G offices following bid opening and reading.
3. *Results.* Preliminary sale results, including the apparent high bidders, will be posted at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale> once bid adjudication is complete.
4. *Return of bid deposit.* A bidder submitting a bid that is not the apparent high bid may pick up bid deposits as specified in the **Sale Dates** and **Sale Locations and Addresses** sections of this document. Bid deposits that have not been picked up by that time will be returned to the bidder by mail according to the instructions for return of bid deposit on the bid form.
5. *Presentation of bid deposit for payment.* The bid deposit for an apparent high bid tendered in cash or by certified check, cashier's check or money order will be presented immediately after bid adjudication for payment in federal funds at the State of Alaska's financial institution.



### **Method of Handling Bids Following Bid Opening**

The bidder submitting a valid bid presenting the highest Bid Per Acre will be the apparent high bidder. Once the commissioner accepts the apparent high bid and bid deposit, the high bidder(s) will receive a **Notice to High Bidder** informing them of the commissioner's acceptance of the bid and bid deposit. Please note that this may take several weeks.

DO&G will issue an **Award Notice** to the high bidder(s) no earlier than 60 days after bidding. The **Award Notice** will inform the high bidder(s) of the balance of the bonus bid due for the Block, the interest rate and interest on the balance of the bonus bid, and the first year's rental for all leases in the auction lot, all of which must be paid before all lease will be issued.

### **Acreage Limitations**

DO&G will not award leases that cause a bidder to exceed acreage limitations prescribed in AS 38.05.140(c).

### **Americans with Disabilities Act Compliance**

The State of Alaska, Department of Natural Resources, Division of Oil & Gas complies with Title II of the Americans with Disabilities Act of 1990. This publication will be made available in alternative communication format upon request. Please call (907) 269-8800 or email [dog.leasing@alaska.gov](mailto:dog.leasing@alaska.gov) to make any necessary arrangements.



Chantal Walsh  
Director  
Division of Oil and Gas

**Sale Announcement and Instructions to Bidders**  
**Harrison Bay Block**  
**Competitive Oil and Gas Lease Sale**  
**Attachment A**

**Last Updated August 17, 2018**

Refer to the **Sale Terms and Conditions** section of the Sale Announcement and Instructions to Bidders at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale> for bid variable, royalty rate, primary lease term, annual rental rate, work commitment, and lease forms.

This block is a group of leases offered as an auction lot. DO&G will award multiple leases in the block. State-owned lands available for oil and gas leasing in the block have been determined as land status, ownership and acreage within leases were adjudicated, that is, verified. The lands available for leasing are listed below with lease legal descriptions.

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](mailto: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/controller>
- DNR Recorder’s Office – <http://dnr.alaska.gov/ssd/recoff/>
- BLM Spatial Data Management System (SDMS) – <http://sdms.ak.blm.gov/>

DO&G has provided additional information on oil and gas resource data available from public sources for this lease sale block. For more information, please visit [http://dog.dnr.alaska.gov/Documents/ResourceEvaluation/Salsa/SALSA\\_for\\_PUBLIC\\_JUL18\\_FINAL-LIVE.pdf](http://dog.dnr.alaska.gov/Documents/ResourceEvaluation/Salsa/SALSA_for_PUBLIC_JUL18_FINAL-LIVE.pdf).

Hyperlinks for LSTs and ADLs open the case file abstract in LAS.

<b>LST</b>	<b>Total Acreage</b>	<b>Number of Leases</b>	<b>Minimum Bid \$/Acre</b>	<b>Sale Terms and Conditions</b>
<a href="#">BS2018H</a>	66,275.28	21	\$25.00	Harrison Bay Block

**Legal descriptions for leases to be awarded in this block start on the following page.**

**ADL [393709](#)**

T. 013N, R. 004E, Umiat Meridian, Alaska.

Section 17, Protracted, All, 640.00 acres;  
Section 18, Protracted, All, 630.00 acres;  
Section 19, Protracted, All, 633.00 acres;  
Section 20, Protracted, All, 640.00 acres;

This Tract ([BS0437](#)) contains 2,543.00 acres, more or less.

**ADL [393710](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 1, Protracted, All, 640.00 acres;  
Section 2, Protracted, All, 640.00 acres;  
Section 11, Protracted, All, 640.00 acres;  
Section 12, Protracted, All, 640.00 acres;

This Tract ([BS0443](#)) contains 2,560.00 acres, more or less.

**ADL [393711](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 3, Protracted, All, 640.00 acres;  
Section 4, Protracted, All, 640.00 acres;  
Section 9, Protracted, All, 640.00 acres;  
Section 10, Protracted, All, 640.00 acres;

This Tract ([BS0444](#)) contains 2,560.00 acres, more or less.

**ADL [393712](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 5, Protracted, All, 640.00;  
Section 6, Protracted, All, 625.00 acres;  
Section 7, Protracted, All 628.00 acres;  
Section 8, Protracted, All, 640.00 acres;

This Tract ([BS0445](#)) contains 2,533.00 acres, more or less.

**ADL [393713](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 13, Protracted, All, 640.00 acres;  
Section 14, Protracted, All, 640.00 acres;  
Section 23, Protracted, All, 640.00 acres;  
Section 24, Protracted, All, 640.00 acres;

This Tract ([BS0446](#)) contains 2,560.00 acres, more or less.

**ADL [393714](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 15, Protracted, All, 640.00 acres;

Section 16, Protracted, All, 640.00 acres;

Section 21, Protracted, All, 640.00 acres;

Section 22, Protracted, All, 640.00 acres;

This Tract ([BS0447](#)) contains 2,560.00 acres, more or less.

**ADL [393715](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 17, Protracted, All, 640.00 acres;

Section 18, Protracted, All, 631.00 acres;

Section 19, Protracted, All, 633.00 acres;

Section 20, Protracted, All, 640.00 acres;

This Tract ([BS0448](#)) contains 2,544.00 acres, more or less.

**ADL [393716](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 25, Protracted, All, 640.00 acres;

Section 26, Protracted, All, 640.00 acres;

Section 35, Protracted, All, 640.00 acres;

Section 36, Protracted, All, 640.00 acres;

This Tract ([BS0449](#)) contains 2,560.00 acres, more or less.

**ADL [393717](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 27, Protracted, All, 640.00 acres;

Section 28, Protracted, All, 640.00 acres;

This Tract ([BS0450](#)) contains 1,280.00 acres, more or less.

**ADL [393718](#)**

T. 013N, R. 003E, Umiat Meridian, Alaska.

Section 29, Protracted, All, 640.00 acres;

Section 30, Protracted, All, 636.00 acres;

Section 31, Protracted, All, 639.00 acres;

Section 32, Protracted, All, 640.00 acres;

This Tract ([BS0451](#)) contains 2,555.00 acres, more or less.

**ADL [393719](#)**

T. 014N, R. 003E, Umiat Meridian, Alaska.

Section 29, Protracted, All, 640.00 acres;

Section 30, Protracted, All, 620.00 acres;

Section 31, Protracted, All, 622.00 acres;

Section 32, Protracted, All, 640.00 acres;

This Tract ([BS0455](#)) contains 2,522.00 acres, more or less.

**ADL [393720](#)**

T. 013N, R. 001E, Umiat Meridian, Alaska.

Section 11, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 0.53 acres;

Section 12, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 85.79 acres;

Section 13, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 623.33 acres;

Section 14, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 583.90 acres;

Section 23, Protracted, All, 640.00 acres;

Section 24, Protracted, All, 640.00 acres;

This Tract ([BS0456](#)) contains 2,573.55 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393721](#)**

T. 013N, R. 001E, Umiat Meridian, Alaska.

Section 15, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 290.88 acres;

Section 16, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 140.12 acres;

Section 17, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 1.25 acres;

Section 20, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 219.25 acres;

Section 21, Protracted, All, 640.00 acres;

Section 22, Protracted, All, 640.00 acres;

This Tract ([BS0457](#)) contains 1,931.50 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393722](#)**

T. 013N, R. 001E, Umiat Meridian, Alaska.

Section 25, Protracted, All, 640.00 acres;  
Section 26, Protracted, All, 640.00 acres;  
Section 35, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 382.35 acres;  
Section 36, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 380.14 acres;

This Tract ([BS0458](#)) contains 2,042.49 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393723](#)**

T. 013N, R. 001E, Umiat Meridian, Alaska.

Section 27, Protracted, All, 640.00 acres;  
Section 28, Protracted, All, 640.00 acres;  
Section 29, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 337.77 acres;  
Section 32, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 0.18 acres;  
Section 33, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 368.49 acres;  
Section 34, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve – Alaska, 459.23 acres;

This Tract ([BS0459](#)) contains 2,445.67 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393724](#)**

T. 013N, R. 002E, Umiat Meridian, Alaska.

Section 1, Protracted, All, 640.00 acres;  
Section 2, Protracted, All, 640.00 acres;  
Section 3, Protracted, All, 640.00 acres;  
Section 10, Protracted, All, 640.00 acres;  
Section 11, Protracted, All, 640.00 acres;  
Section 12, Protracted, All, 640.00 acres;  
Section 13, Protracted, All, 640.00 acres;  
Section 14, Protracted, All, 640.00 acres;  
Section 15, Protracted, All, 640.00 acres;

This Tract ([BS0460](#)) contains 5,760.00 acres, more or less.

**ADL [393725](#)**

T. 013N, R. 002E, Umiat Meridian, Alaska.

Section 4, Protracted, All, 640.00 acres;

Section 5, Protracted, All, 640.00 acres;

Section 6, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 204.25 acres;

Section 7, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 313.32 acres;

Section 8, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 629.05 acres;

Section 9, Protracted, All, 640.00 acres;

Section 16, Protracted, All, 640.00 acres;

Section 17, Protracted, All, 640.00 acres;

Section 18, Protracted, All, 631.00 acres;

This Tract ([BS0461](#)) contains 4,977.62 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393726](#)**

T. 013N, R. 002E, Umiat Meridian, Alaska.

Section 19, Protracted, All, 633.00 acres;

Section 20, Protracted, All, 640.00 acres;

Section 21, Protracted, All, 640.00 acres;

Section 28, Protracted, All, 640.00 acres;

Section 29, Protracted, All, 640.00 acres;

Section 30, Protracted, All, 636.00 acres;

Section 31, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 503.84 acres;

Section 32, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 446.10 acres;

Section 33, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 464.93 acres;

This Tract ([BS0462](#)) contains 5,243.87 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393727](#)**

T. 012N, R. 002E, Umiat Meridian, Alaska.

Section 1, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 27.79 acres;

T. 013N, R. 002E, Umiat Meridian, Alaska.

Section 22, Protracted, All, 640.00 acres;

Section 23, Protracted, All, 640.00 acres;

Section 24, Protracted, All, 640.00 acres;

Section 25, Protracted, All, 640.00 acres;

Section 26, Protracted, All, 640.00 acres;

Section 27, Protracted, All, 640.00 acres;

Section 34, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 270.90 acres;

Section 35, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 369.70 acres;

Section 36, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 571.63 acres;

This Tract ([BS0463](#)) contains 5,080.02 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.

**ADL [393728](#)**

T. 014N, R. 002E, Umiat Meridian, Alaska.

Section 19, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 146.85 acres;

Section 20, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 613.00 acres;

Section 21, Protracted, All, 640.00 acres;

Section 28, Protracted, All, 640.00 acres;

Section 29, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 367.41 acres; Section 31, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 65.63 acres;

Section 32, Unsurveyed, All tide and submerged lands excluding the National Petroleum Reserve - Alaska, 570.67 acres;

Section 33, Protracted, All, 640.00 acres;

This Tract ([BS0466](#)) contains 3,683.56 acres, more or less.

As described by Executive Order No. 3739-A, the ambulatory boundary of NPR-A along the Arctic coast is a continuous line that follows the highest high water mark, extending across entrances of small lagoons, small bays and river estuaries. Closing lines within this township were drawn based on coastal boundary bay closing line procedure to segregate tide and submerged lands from the NPR-A.



**ADL [393729](#)**

T. 014N, R. 002E, Umiat Meridian, Alaska.

Section 22, Protracted, All, 640.00 acres;  
Section 23, Protracted, All, 640.00 acres;  
Section 24, Protracted, All, 640.00 acres;  
Section 25, Protracted, All, 640.00 acres;  
Section 26, Protracted, All, 640.00 acres;  
Section 27, Protracted, All, 640.00 acres;  
Section 34, Protracted, All, 640.00 acres;  
Section 35, Protracted, All, 640.00 acres;  
Section 36, Protracted, All, 640.00 acres;

This Tract ([BS0467](#)) contains 5,760.00 acres, more or less.

**STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS**

**BID FORM FOR AREAWIDE OIL & GAS LEASE SALE**

Instructions on how to complete this form are available in the Sale Announcement and Instructions to Bidders at <http://dog.dnr.alaska.gov/Services/BIFAndLeaseSale>.

Areawide Oil & Gas Lease Sale Name \_\_\_\_\_ Lease Sale Tract (LST) \_\_\_\_\_ Parcel (North Slope Only) \_\_\_\_\_

Each bidder listed below must be qualified in order to bid. All lease-interest percentages must be expressed in percentages with the fractional interest carried out to no more than five decimal places. The sum of the lease-interests covered by this bid must equal 100.00000 percent without rounding.

Bidder	% Lease Interest	Qualification File No.	Bidder Name	Individual Bidder or Bidder Agent Authorized Signature	Date
No. 1	_____	_____	_____	_____	_____
			Agent Name and Title: _____		
No. 2	_____	_____	_____	_____	_____
			Agent Name and Title: _____		
No. 3	_____	_____	_____	_____	_____
			Agent Name and Title: _____		
No. 4	_____	_____	_____	_____	_____
			Agent Name and Title: _____		

Estimated Acreages for lease sale tracts are listed in Attachment A of the Sale Announcement and Instructions to Bidders. The Bid Per Acre controls in case of a discrepancy.

Bid Per Acre
Estimated Acreage
Estimated Bonus Bid
  
 \$ \_\_\_\_\_ /Acres X \_\_\_\_\_ Acre = \$ \_\_\_\_\_

Enclosed is \$ \_\_\_\_\_, a bid deposit equal to or greater than the Minimum Bid Deposit, which is **20%** of the Estimated Bonus Bid, as required by the Sale Announcement and Instructions to Bidders.

I/We certify by signing this form that 1) this bid discloses the percentage interest of each person or entity who has any working interest in this bid or in any lease issued in response to it and 2) if awarded a lease pursuant to this bid, all successful bidders who have a working interest in the lease at the time of the lease award notice will execute all copies of the lease form specified in the Sale Announcement and Instructions to Bidders and comply with all other requirements of the award notice, including the posting of any required bond, or shall forfeit the entire amount deposited with this bid.

AS 38.05.035(a) authorizes the director to decide what information is needed to process an application for the sale or use of state land and resources. This information is made a part of the state public land records and becomes public information under AS 40.25.110 and AS 40.25.120 (unless the information qualifies for confidentiality under AS 38.05.035(a)(9) and confidentiality is requested). Public information is open to inspection by you or any member of the public. A person who is the subject of the information may challenge its accuracy or completeness under AS 44.99.310, by giving a written description of the challenged information, the changes needed to correct it, and a name and address where the person can be reached. False statements made in an application for a benefit are punishable under AS 11.56.210.

**STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL AND GAS**

**BID FORM FOR AREAWIDE OIL & GAS LEASE SALE**

The person designated to act as the agent on behalf of all bidders in connection with this bid is:

Bid Agent

Agent Name \_\_\_\_\_ Title \_\_\_\_\_

Telephone Number(s) \_\_\_\_\_

Email Address \_\_\_\_\_

Instructions for return of bid deposit, if unsuccessful. \_\_\_\_\_

\_\_\_\_\_

If this bid is determined to be the apparent high bid, and if a lease is awarded, future lease notices and correspondence are to be mailed to the notification lessee as designated by name and address specified below.

Notification Lessee

Bidder Name \_\_\_\_\_

Mailing Address \_\_\_\_\_

\_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

If this bid is determined to be the apparent high bid, and if a lease is awarded, future award notices and issued leases may be delivered by private delivery or courier to the name and physical address specified below. The address must be a location acceptable to private delivery or courier services.

Delivery Address

Bidder Name \_\_\_\_\_ ATTN \_\_\_\_\_

Physical Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ ZIP Code \_\_\_\_\_

Telephone Number \_\_\_\_\_

STATE OF ALASKA  
DEPARTMENT OF NATURAL RESOURCES

Competitive Oil and Gas Lease      **ADL No.**

THIS LEASE is entered into \_\_\_\_\_, between the State of Alaska, "the state," and

"the lessee," whether one or more, whose sole address for purposes of notification is under Paragraph 26.

In consideration of the cash payment made by the lessee to the state, which payment includes the first year's rental and any required cash bonus, and subject to the provisions of this lease, including applicable stipulation(s) and mitigating measures attached to this lease and by this reference incorporated in this lease, the state and the lessee agree as follows:

1. GRANT. (a) Subject to the provisions in this lease, the state grants and leases to the lessee, without warranty, the exclusive right to drill for, extract, remove, clean, process, and dispose of oil, gas, and associated substances in or under the following described tract of land:

containing approximately \_\_\_\_\_ acres, more or less (referred to in this lease as the "leased area"); the nonexclusive right to conduct within the leased area geological and geophysical exploration for oil, gas, and associated substances; and the nonexclusive right to install pipelines and build structures on the leased area to find, produce, save, store, treat, process, transport, take care of, and market all oil, gas, and associated substances and to house and board employees in its operations on the leased area. The rights granted by this lease are to be exercised in a manner which will not unreasonably interfere with the rights of any permittee, lessee or grantee of the state consistent with the principle of reasonable concurrent uses as set out in Article VIII, Section 8 of the Alaska Constitution.

(b) If the leased area is described by protracted legal subdivisions and, after the effective date of this lease, the leased area is surveyed under the public land rectangular system, the boundaries of the leased area are those established by that survey, when approved, subject, however, to the provisions of applicable regulations relating to those surveys. If for any reason the leased area includes more acreage than the maximum permitted under applicable law (including the "rule of approximation" authorized in AS 38.05.145 and defined in AS 38.05.965 (18)), this lease is not void and the acreage included in the leased area must be reduced to the permitted maximum. If the state determines that the leased area exceeds the permitted acreage and notifies the lessee in writing of the amount of acreage that must be eliminated, the lessee has 60 days after that notice to surrender one or more legal subdivisions included in the leased area comprising at least the amount of acreage that must be eliminated. Any subdivision surrendered must be located on the perimeter of the leased area as originally described. If a surrender is not filed within 60 days, the state may terminate this lease as to the acreage that must be eliminated by mailing notice of the termination to the lessee describing the subdivision eliminated.

(c) If the State of Alaska's ownership interest in the oil, gas, and associated substances in the leased area is less than an entire and undivided interest, the grant under this lease is effective only as to the state's interest in that oil, gas, and associated substances, and the royalties and rentals provided in this lease must be paid to the state in the proportion that the state's interest bears to the entire undivided fee.

(d) The state makes no representations or warranties, express or implied, as to title, or access to, or quiet enjoyment of, the leased area. The state is not liable to the lessee for any deficiency in title to the leased area, nor is the lessee or any successor in interest to the lessee entitled to any refund due to deficiency in title for any rentals, bonuses, or royalties paid under this lease.

2. RESERVED RIGHTS. (a) The state, for itself and others, reserves all rights not expressly granted to the lessee by this lease. These reserved rights include, but are not limited to:

(1) the right to explore for oil, gas, and associated substances by geological and geophysical means;

(2) the right to explore for, develop, and remove natural resources other than oil, gas, and associated substances on or from the leased area;

(3) the right to establish or grant easements and rights-of-way for any lawful purpose, including without limitation for shafts and tunnels necessary or appropriate for the working of the leased area or other lands for natural resources other than oil, gas, and associated substances;

(4) the right to dispose of land within the leased area for well sites and well bores of wells drilled from or through the leased area to explore for or produce oil, gas, and associated substances in and from lands not within the leased area; and

(5) the right otherwise to manage and dispose of the surface of the leased area or interests in that land by grant, lease, permit, or otherwise to third parties.

(b) The rights reserved may be exercised by the state, or by any other person or entity acting under authority of the state, in any manner that does not unreasonably interfere with or endanger the lessee's operations under this lease.

3. TERM. This lease is issued for an initial primary term of 8 years from the effective date of this lease. The term may be extended as provided in Paragraph 4 below.

4. EXTENSION. (a) This lease will be extended automatically if and for so long as oil or gas is produced in paying quantities from the leased area.

(b) This lease will be extended automatically if it is committed to a unit approved or prescribed by the state, and will remain in effect for so long as it remains committed to that unit.

(c) (1) If the drilling of a well whose bottom hole location is in the leased area has commenced as of the date on which the lease otherwise would expire and is continued with reasonable diligence, this lease will continue in effect until 90 days after cessation of that drilling and for so long as oil or gas is produced in paying quantities from the leased area.

(2) If oil or gas in paying quantities is produced from the leased area, and if that production ceases at any time, this lease will not terminate if drilling or reworking operations are commenced on the leased area within sixty days after cessation of production and are prosecuted with reasonable diligence; if those drilling or reworking operations result in the production of oil or gas, this lease will remain in effect for so long as oil or gas is produced in paying quantities from the leased area.

(d) If there is a well capable of producing oil or gas in paying quantities on the leased area, this lease will not expire because the lessee fails to produce that oil or gas unless the state gives notice to the lessee, allowing a reasonable time, which will not be less than sixty days after notice, to place the well into production, and the lessee fails to

do so. If production is established within the time allowed, this lease is extended only for so long as oil or gas is produced in paying quantities from the leased area.

(e) If the state directs or approves in writing a suspension of all operations on or production from the leased area (except for a suspension necessitated by the lessee's negligence), or if a suspension of all operations on or production from the leased area has been ordered under federal, state, or local law, the lessee's obligation to comply with any express or implied provision of this lease requiring operations or production will be suspended, but not voided, and the lessee shall not be liable for damages for failure to comply with that provision. If the suspension occurs before the expiration of the primary term, the primary term will be extended at the end of the period of the suspension by adding the period of time lost under the primary term because of the suspension. If the suspension occurs during an extension of the primary term under this paragraph, upon removal of that suspension, the lessee will have a reasonable time, which will not be less than six months after notice that the suspension has been removed, to resume operations or production. For the purposes of this subparagraph, any suspension of operations or production specifically required or imposed as a term of sale or by any stipulation made a part of this lease will not be considered a suspension ordered by law.

(f) If the state determines that the lessee has been prevented by force majeure, after efforts made in good faith, from performing any act that would extend the lease beyond the primary term, this lease will not expire during the period of force majeure. If the force majeure occurs before the expiration of the primary term, the primary term will be extended at the end of the period of force majeure by adding the period of time lost under the primary term because of the force majeure. If the force majeure occurs during an extension of the primary term under this paragraph, this lease will not expire during the period of force majeure plus a reasonable time after that period, which will not be less than 60 days, for the lessee to resume operations or production.

(g) Nothing in subparagraphs (e) or (f) suspends the obligation to pay royalties or other production or profit-based payments to the state from operations on the leased area that are not affected by any suspension or force majeure, or suspends the obligation to pay rentals.

5. RENTALS. (a) The lessee shall pay annual rental to the state in the amount of \$10.00 per acre or fraction of an acre.

(b) The state may increase the annual rental rate as provided by law upon extension of this lease beyond the primary term.

(c) Annual rental paid in advance is a credit on the royalty or net profit share due under this lease for that year.

(d) The lessee shall pay the annual rental to the State of Alaska (or any depository designated by the state with at least 60 days notice to the lessee) in advance, on or before the annual anniversary date of this lease. The state is not required to give notice that rentals are due by billing the lessee. If the state's (or depository's) office is not open for business on the annual anniversary date of this lease, the time for payment is extended to include the next day on which that office is open for business. If the annual rental is not paid timely, this lease automatically terminates as to both parties at 11:59 p.m., Alaska Standard Time, on the date by which the rental payment was to have been made.

6. RECORDS. (a) The lessee shall keep and have in its possession books and records showing the development and production (including records of development and production expenses) and disposition (including records of sale prices, volumes, and purchasers) of all oil, gas, and associated substances produced from the leased area. The lessee shall permit the State of Alaska or its agents to examine these books and records at all reasonable times. Upon request by the state, the lessee's books and records shall be made available to the state at the state office designated by the state. These books and records of development, production, and disposition must employ methods and techniques that will ensure the most accurate figures reasonably available without requiring the lessee to provide separate tankage or meters for each well. The lessee shall use generally accepted accounting procedures consistently applied.

(b) The lessee shall maintain accurate records of lease working interest and secondary overriding royalty interest ownership and shall submit the information to the state within 15 days upon receipt of request.

7. APPORTIONMENT OF ROYALTY FROM APPROVED UNIT. The landowners' royalty share of the unit production allocated to each separately owned tract shall be regarded as royalty to be distributed to and among, or the proceeds of it paid to, the landowners, free and clear of all unit expense and free of any lien for it. Under this provision, the state's royalty share of any unit production allocated to the leased area will be regarded as royalty to be distributed to, or the proceeds of it paid to, the state, free and clear of all lease or unit expenses (and any portion of those expenses incurred away from the unit area), including, but not limited to, expenses for separating, cleaning, dehydration, gathering, saltwater disposal, and preparing oil, gas, or associated substances for transportation off the unit area, and free of any lien for them.

8. PAYMENTS. All payments to the State of Alaska under this lease must be made payable to the state in the manner directed by the state, and unless otherwise specified, must be tendered to the state at:

DEPARTMENT OF NATURAL RESOURCES  
550 WEST 7<sup>TH</sup> AVENUE, SUITE 1410  
ANCHORAGE, ALASKA 99501-3561  
ATTENTION: FINANCIAL SERVICES SECTION

or in person at either of the Department's Public Information Centers located at

550 W. 7<sup>th</sup> Ave., Suite 1260  
Anchorage, Alaska

3700 Airport Way  
Fairbanks, Alaska

or to any depository designated by the state with at least 60 days notice to the lessee.

9. WORK COMMITMENTS. (a) Before the sixth anniversary of the effective date of the lease, the lessee shall complete, suspend, or plug and abandon one well that has penetrated to the base of the Kuparuk C interval as observed as the LCU correlative stratigraphic surface seen in the S. Harrison Bay #1 well (API No. 50-10320007-00-00) at 7,289 feet measured depth.

(b) The lessee shall submit well data, to include at a minimum a mudlog, gamma ray log, resistivity log, and porosity log, before the sixth anniversary of the effective date of the lease, to substantiate adherence to the work commitment terms. Data must be submitted according to the instructions set out in Attachment 1

(c) The work commitment will be considered met if the lessee completes the work as described in (a) and (b) of this paragraph on any of ADLs 393709, 393710, 393711, 393712, 393713, 393714, 393715, 393716, 393717, 393718, 393719, 393720, 393721, 393722, 393723, 393724, 393725, 393726, 393727, 393728, or 393729.

(d) If the lessee fails to meet the work commitment set out in this paragraph, this lease will automatically terminate as provided under 11 AAC 83.700 - 11 AAC 83.705

10. PLAN OF OPERATIONS. (a) Except as provided in (b) of this section, a plan of operations for all or part of the leased area must be approved by the commissioner before any operations may be undertaken on or in the leased area.

(b) A plan of operations is not required for:

(1) activities that would not require a land use permit; or

(2) operations undertaken under an approved unit plan of operations.

(c) Before undertaking operations on or in the leased area, the lessee shall provide for full payment of all damages sustained by the owner of the surface estate as well as by the surface owner's lessees and permittees, by reason of entering the land.

(d) An application for approval of a plan of operations must contain sufficient information, based on data reasonably available at the time the plan is submitted for approval, for the commissioner to determine the surface use requirements and impacts directly associated with the proposed operations. An application must include statements and maps or drawings setting out the following:

(1) the sequence and schedule of the operations to be conducted on or in the leased area, including the date operations are proposed to begin and their proposed duration;

(2) projected use requirements directly associated with the proposed operations, including the location and design of well sites, material sites, water supplies, solid waste sites, buildings, roads, utilities, airstrips, and all other facilities and equipment necessary to conduct the proposed operations;

(3) plans for rehabilitation of the affected leased area after completion of operations or phases of those operations;

(4) a description of operating procedures designed to prevent or minimize adverse effects on other natural resources and other uses of the leased area and adjacent areas, including fish and wildlife habitats, historic and archeological sites, and public use areas; and

(5) a mitigation measure analysis based on the mitigation measures set forth in the most current Best Interest Finding applicable to the leased area.

(e) In approving a lease plan of operations or an amendment of a plan, the commissioner will require amendments that the commissioner determines necessary to protect the state's interest. The commissioner will not require an amendment that would be inconsistent with the terms of sale under which the lease was obtained, or with the terms of the lease itself, or which would deprive the lessee of reasonable use of the leasehold interest.

(f) The lessee may, with the approval of the commissioner, amend an approved plan of operations.

(g) Upon completion of operations, the lessee shall inspect the area of operations and submit a report indicating the completion date of operations and stating any noncompliance of which the lessee knows, or should reasonably know, with requirements imposed as a condition of approval of the plan.

11. PLAN OF DEVELOPMENT. (a) Except as provided in subparagraph (d) below, within 12 months after completion of a well capable of producing oil, gas, or associated substances in paying quantities, the lessee shall file an application for approval by the state of an initial plan of development that must describe the lessee's plans for developing the leased area. No development of the leased area may occur until a plan of development has been approved by the state.

(b) The plan of development must be revised, updated, and submitted to the state for approval annually before or on the anniversary date of the previously approved plan.

(c) The lessee may, with the approval of the state, subsequently modify an approved plan of development.

(d) If the leased area is included in an approved unit, the lessee will not be required to submit a separate lease plan of development for unit activities.

12. INFORMATION ACQUIRED FROM OPERATIONS. (a) The lessee shall submit to the state, at the Department of Natural Resources, Division of Oil & Gas (Division), all geological, geophysical, and engineering data obtained from the lease within 30 days following completion, abandonment, or suspension of each well, pilot hole, and plugged back well bore. The lessee shall also submit to the Division, on behalf of the state, data acquired subsequent to completion, abandonment, or suspension of each well, pilot hole, and plugged back well bore within 30 days following acquisition of those data. The Division, on behalf of the state, may waive receipt of operational data from some development, service, or injection wells, and will inform the operator of the waiver in writing prior to data submittal.

Data shall be submitted according to the instructions set out in Attachment 1.

Submission of data under this paragraph does not affect any statutory or regulatory obligation to submit data or other information to the state or any of its agencies.

(b) Any data submitted to the state, at the Department of Natural Resources, Division of Oil & Gas will be available at all times for use by the state and its agents, and will be held confidential as provided in AS 38.05.035(a)(8) and its applicable regulations. In accordance with AS 38.05.035(a)(8)(C), in order for geological, geophysical, and engineering data to be held confidential, the lessee must request confidentiality at the time of submission and mark the data "CONFIDENTIAL" in compliance with applicable regulations.

13. DIRECTIONAL DRILLING. This lease may be maintained in effect by directional wells whose bottom hole location is on the leased area but that are drilled from locations on other lands not covered by this lease. In those circumstances, drilling will be considered to have commenced on the leased area when actual drilling is commenced on those other lands for the purpose of directionally drilling into the leased area. Production of oil or gas from the leased area through any directional well surfaced on those other lands, or drilling or reworking of that directional well, will be considered production or drilling or reworking operations on the leased area for all purposes of this lease. Nothing contained in this paragraph is intended or will be construed as granting to the lessee any interest, license, easement, or other right in or with respect to those lands in addition to any interest, license, easement, or other right that the lessee may have lawfully acquired from the state or from others.

14. DILIGENCE AND PREVENTION OF WASTE. (a) The lessee shall exercise reasonable diligence in drilling, producing, and operating wells on the leased area unless consent to suspend operations temporarily is granted by the state.

(b) Upon discovery of oil or gas on the leased area in quantities that would appear to a reasonable and prudent operator to be sufficient to recover ordinary costs of drilling, completing, and producing an additional well in the same geologic structure at another location with a reasonable profit to the operator, the lessee must drill those wells as a reasonable and prudent operator would drill, having due regard for the interest of the state as well as the interest of the lessee.

(c) The lessee shall perform all operations under this lease in a good and workmanlike manner in accordance with the methods and practices set out in the approved plan of operations and plan of development, with due regard for the prevention of waste of oil, gas, and associated substances and the entrance of water to the oil and gas-bearing sands or strata to the destruction or injury of those sands or strata, and to the preservation and conservation of



the property for future productive operations. The lessee shall carry out at the lessee's expense all orders and requirements of the State of Alaska relative to the prevention of waste and to the preservation of the leased area. If the lessee fails to carry out these orders, the state will have the right, together with any other available legal recourse, to enter the leased area to repair damage or prevent waste at the lessee's expense.

(d) The lessee shall plug and abandon any well in a manner prescribed by the Alaska Oil and Gas Conservation Commission.

15. **OFFSET WELLS.** The lessee shall drill such wells as a reasonable and prudent operator would drill to protect the state from loss by reason of drainage resulting from production on other land. Without limiting the generality of the foregoing sentence, if oil or gas is produced in a well on other land not owned by the State of Alaska or on which the State of Alaska receives a lower rate of royalty than under this lease, and that well is within 500 feet in the case of an oil well or 1,500 feet in the case of a gas well of lands then subject to this lease, and that well produces oil or gas for a period of 30 consecutive days in quantities that would appear to a reasonable and prudent operator to be sufficient to recover ordinary costs of drilling, completing, and producing an additional well in the same geological structure at an offset location with a reasonable profit to the operator, and if, after notice to the lessee and an opportunity to be heard, the state finds that production from that well is draining lands then subject to this lease, the lessee shall within 30 days after written demand by the state begin in good faith and diligently prosecute drilling operations for an offset well on the leased area. In lieu of drilling any well required by this paragraph, the lessee may, with the state's consent, compensate the state in full each month for the estimated loss of royalty through drainage in the amount determined by the state.

16. **UNITIZATION.** (a) The lessee may unite with others, jointly or separately, in collectively adopting and operating under a cooperative or unit agreement for the exploration, development, or operation of the pool, field, or like area or part of the pool, field, or like area that includes or underlies the leased area or any part of the leased area whenever the state determines and certifies that the cooperative or unit agreement is in the public interest.

(b) The lessee agrees, within six months after demand by the state, to subscribe to a reasonable cooperative or unit agreement that will adequately protect all parties in interest, including the state. The state reserves the right to prescribe such an agreement.

(c) With the consent of the lessee, and if the leased area is committed to a unit agreement approved by the state, the state may establish, alter, change, or revoke drilling, producing, and royalty requirements of this lease as the state determines necessary or proper to secure the proper protection of the public interest.

(d) Except as otherwise provided in this subparagraph, where only a portion of the leased area is committed to a unit agreement approved or prescribed by the state, that commitment constitutes a severance of this lease as to the unitized and nonunitized portions of the leased area. The portion of the leased area not committed to the unit will be treated as a separate and distinct lease having the same effective date and term as this lease and may be maintained only in accordance with the terms and conditions of this lease, statutes, and regulations. Any portion of the leased area not committed to the unit agreement will not be affected by the unitization or pooling of any other portion of the leased area, by operations in the unit, or by suspension approved or ordered for the unit. If any portion of this lease is included in a participating area formed under a unit agreement, the entire leased area will remain committed to the unit and this lease will not be severed.

17. **INSPECTION.** The lessee shall keep open at all reasonable times, for inspection by any duly authorized representative of the State of Alaska, the leased area, all wells, improvements, machinery, and fixtures on the leased area, and all reports and records relative to operations and surveys or investigations on or with regard to the leased area or under this lease. Upon request, the lessee shall furnish the State of Alaska with copies of and extracts from any such reports and records.

18. **SUSPENSION.** The state may from time to time direct or approve in writing suspension of production or other operations under this lease.

19. **ASSIGNMENT, PARTITION, AND CONVERSION.** This lease, or an interest in this lease, may, with the approval of the state, be assigned, subleased, or otherwise transferred to any person or persons qualified to hold a lease. No assignment, sublease, or other transfer of an interest in this lease, including assignments of working or royalty interests, or subleases, will be binding upon the state unless approved by the state. The lessee shall remain liable for all obligations under this lease accruing prior to the approval by the state of any assignment, sublease, or other transfer of an interest in this lease. All provisions of this lease will extend to and be binding upon the heirs, administrators, successors, and assigns of the state and the lessee. Applications for approval of an assignment, sublease, or other transfer must comply with all applicable regulations and must be filed within 90 days after the date of final execution of the instrument of transfer. The state will approve a transfer of an undivided interest in this lease unless the transfer would adversely affect the interests of

Alaska or the application does not comply with applicable regulations. The state will disapprove a transfer of a divided interest in this lease if the transfer covers only a portion of the lease or a separate and distinct zone or geological horizon unless the lessee demonstrates that the proposed transfer of a divided interest is reasonably necessary to accomplish exploration or development of the lease, the lease is committed to an approved unit agreement, the lease is allocated production within an approved participating area, or the lease has a well capable of production in paying quantities. The state will make a written finding stating the reasons for disapproval of a transfer of a divided interest. Where an assignment, sublease, or other transfer is made of all or a part of the lessee's interest in a portion of the leased area, this lease may, at the option of the state or upon request of the transferee and with the approval of the state, be severed, and a separate and distinct lease will be issued to the transferee having the same effective date and terms as this lease.

20. SURRENDER. The lessee at any time may file with the state a written surrender of all rights under this lease or any portion of the leased area comprising one or more legal subdivisions or, with the consent of the state, any separate and distinct zone or geological horizon underlying the leased area or one or more legal subdivisions of the leased area. That surrender will be effective as of the date of filing, subject to the continued obligations of the lessee and its surety to make payment of all accrued royalties and to place all wells and surface facilities on the surrendered land or in the surrendered zones or horizons in condition satisfactory to the state for suspension or abandonment. After that, the lessee will be released from all obligations under this lease with respect to the surrendered lands, zones, or horizons.

21. DEFAULT AND TERMINATION; CANCELLATION. (a) The failure of the lessee to perform timely its obligations under this lease, or the failure of the lessee otherwise to abide by all express and implied provisions of this lease, is a default of the lessee's obligations under this lease. Whenever the lessee fails to comply with any of the provisions of this lease (other than a provision which, by its terms, provides for automatic termination), and fails to comply within 60 days after written notice of that default, the state may terminate this lease if at the time of termination there is no well on the leased area capable of producing oil or gas in paying quantities. If there is a well on the leased area capable of producing oil or gas in paying quantities, this lease may be terminated by an appropriate judicial proceeding.

(b) The state may cancel this lease at any time if the state determines, after the lessee has been given notice and a reasonable opportunity to be heard, that:

(1) continued operations pursuant to this lease probably will cause serious harm or damage to biological resources, to property, to mineral resources, or to the environment (including the human environment);

(2) the threat of harm or damage will not disappear or decrease to an acceptable extent within a reasonable period of time; and

(3) the advantages of cancellation outweigh the advantages of continuing this lease in effect. Any cancellation under this subparagraph will not occur unless and until operations under this lease have been under suspension or temporary prohibition by the state, with due extension of the term of this lease, continuously for a period of five years or for a lesser period upon request of the lessee.

(c) Any cancellation under subparagraph (b) will entitle the lessee to receive compensation as the lessee demonstrates to the state is equal to the lesser of:

(1) the value of the cancelled rights as of the date of cancellation, with due consideration being given to both anticipated revenues from this lease and anticipated costs, including costs of compliance with all applicable regulations and stipulations, liability for clean-up costs or damages, or both, in the case of an oil spill, and all other costs reasonably anticipated under this lease; or

(2) the excess, if any, over the lessee's revenues from this lease (plus interest on the excess from the date of receipt to date of reimbursement) of all consideration paid for this lease and all direct expenditures made by the lessee after the effective date of this lease and in connection with exploration or development, or both, under this lease, plus interest on that consideration and those expenditures from the date of payment to the date of reimbursement.

22. RIGHTS UPON TERMINATION. (a) Upon the expiration or earlier termination of this lease as to all or any portion of the leased area, the lessee will be directed in writing by the state and will have the right at any time within a period of one year after the termination, or any extension of that period as may be granted by the state, to remove from the leased area or portion of the leased area all machinery, equipment, tools, and materials. Upon the expiration of that period or extension of that period and at the option of the state, any machinery, equipment, tools, and materials that the lessee has not removed from the leased area or portion of the leased area become the property of the state or may be removed by the state at the lessee's expense. At the option of the state, all improvements such as roads, pads, and wells must either be abandoned and the sites rehabilitated by the lessee to the satisfaction of the state, or be left intact and the lessee absolved of all further responsibility as to their maintenance, repair, and eventual abandonment and rehabilitation. All such improvements left intact shall become property of the state if not otherwise required to be removed or rehabilitated

upon expiration or termination of this lease. Subject to the above conditions, the lessee shall deliver up the leased area or those portions of the leased area in good condition.

(b) The state may require such financial assurances as the commissioner determines necessary to ensure the lessee's ability to meet its obligations under this paragraph. If at any time the commissioner determines that existing financial assurances are insufficient to satisfactorily guarantee the performance of all the lessee's obligations under this paragraph, the commissioner may require the delivery of such substitute or supplemental financial assurances as the commissioner determines necessary.

23. DAMAGES AND INDEMNIFICATION. (a) No rights under the AS 38.05.125 reservation may be exercised by the lessee until the lessee has provided to pay the owner of the land, his lessees and permittees, upon which the AS 38.05.125 reserved rights are sought to be exercised, full payment for all damage sustained by the owner by reason of entering the land. If the owner for any reason does not settle the damages, the lessee may enter the land after posting a surety bond determined by the state, after notice and an opportunity to be heard, to be sufficient as to form, amount, and security to secure to the owner, his lessees and permittees, payment for damages, and may institute legal proceedings in a court of competent jurisdiction where the land is located to determine the damages which the owner of the land may suffer. The lessee agrees to pay for any damages that may become payable under AS 38.05.130 and to indemnify the state and hold it harmless from and against any claims, demands, liabilities, and expenses arising from or in connection with such damages. The furnishing of a bond in compliance with this paragraph will be regarded by the state as sufficient provision for the payment of all damages that may become payable under AS 38.05.130 by virtue of this lease.

(b) The lessee shall indemnify the state for, and hold it harmless from, any claim, including claims for loss or damage to property or injury to any person caused by or resulting from any act or omission committed under this lease by or on behalf of the lessee. The lessee is not responsible to the state under this subparagraph for any loss, damage, or injury caused by or resulting from the sole negligence of the state.

(c) The lessee expressly waives any defense to an action for breach of a provision of this lease or for damages resulting from an oil spill or other harm to the environment that is based on an act or omission committed by an independent contractor in the lessee's employ. The lessee expressly agrees to assume responsibility for all actions of its independent contractors.

24. BONDS. (a) The lessee shall furnish a bond before lease operations commence in an amount equal to at least \$10,000, and must maintain that bond as long as required by the state.

(b) The lessee may, in lieu of the bond required under (a) above, furnish and maintain a statewide bond in accordance with applicable regulations.

(c) The state may, after notice to the lessee and a reasonable opportunity to be heard, require a bond in a reasonable amount greater than the amount specified in (a) above where a greater amount is justified by the nature of the surface and its uses and the degree of risk involved in the types of operations being or to be carried out under this lease. A statewide bond will not satisfy any requirement of a bond imposed under this subparagraph, but will be considered by the state in determining the need for and the amount of any additional bond under this subparagraph.

(d) If the leased area is committed in whole or in part to a cooperative or unit agreement approved or prescribed by the state the unit operator will furnish and maintain a statewide bond in accordance with applicable regulations.

25. AUTHORIZED REPRESENTATIVES. The Director of the Division of Oil and Gas, Department of Natural Resources, State of Alaska, and the person executing this lease on behalf of the lessee shall be authorized representatives for their respective principals for the purposes of administering this lease. The state or the lessee may change the designation of its authorized representative or the address to which notices to that representative are to be sent by a notice given in accordance with Paragraph 25 below. Where activities pursuant to a plan of operations are underway, the lessee shall also designate, pursuant to a notice under Paragraph 25 below, by name, job title, and address, an agent who will be present in the state during all lease activities.

26. NOTICES; PROTEST. (a) Any notices required or permitted under this lease must be by electronic media producing a permanent record or in writing and must be given personally or by registered or certified mail, return receipt requested, addressed as follows:

TO THE STATE:

DIRECTOR, DIVISION OF OIL AND GAS  
DEPARTMENT OF NATURAL RESOURCES  
550 WEST 7TH AVENUE, SUITE 1100  
ANCHORAGE, ALASKA 99501-3563

TO THE LESSEE:

(b) Any notice given under this paragraph will be effective when delivered to the above authorized representative.

(c) A lessee who wishes to protest the amount of money due the state under the lease or any action of the state regarding a provision of this lease must file a written protest with the Division of Oil and Gas within 30 days after the mailing date of the state's notice or bill. A lessee who fails to file a protest within the required time waives any further right to protest. The state will establish the administrative appeal procedure to be followed and will inform the lessee of the procedure no later than 30 days after the filing of the written protest.

27. **STATUTES AND REGULATIONS.** This lease is subject to all applicable state and federal statutes and regulations in effect on the effective date of this lease, and insofar as is constitutionally permissible, to all statutes and regulations placed in effect after the effective date of this lease. A reference to a statute or regulation in this lease includes any change in that statute or regulation whether by amendment, repeal and replacement, or other means. This lease does not limit the power of the State of Alaska or the United States of America to enact and enforce legislation or to promulgate and enforce regulations affecting, directly or indirectly, the activities of the lessee or its agents in connection with this lease or the value of the interest held under this lease. In case of conflicting provisions, statutes and regulations take precedence over this lease.

28. **INTERPRETATION.** This lease is to be interpreted in accordance with the rules applicable to the interpretation of contracts made in the State of Alaska. The paragraph headings are not part of this lease and are inserted only for convenience. The state and the lessee expressly agree that the law of the State of Alaska will apply in any judicial proceeding affecting this lease.

29. **INTEREST IN REAL PROPERTY.** It is the intention of the parties that the rights granted to the lessee by this lease constitute an interest in real property in the leased area.

30. **WAIVER OF CONDITIONS.** The state reserves the right to waive any breach of a provision of this lease, but any such waiver extends only to the particular breach so waived and does not limit the rights of the state with respect to any future breach; nor will the waiver of a particular breach prevent cancellation of this lease for any other cause or for the same cause occurring at another time. Notwithstanding the foregoing, the state will not be deemed to have waived a provision of this lease unless it does so in writing.

31. **SEVERABILITY.** If it is finally determined in any judicial proceeding that any provision of this lease is invalid, the state and the lessee may jointly agree by a written amendment to this lease that, in consideration of the provisions in that written amendment, the invalid portion will be treated as severed from this lease and that the remainder of this lease, as amended, will remain in effect.

32. **LOCAL HIRE.** The lessee is encouraged to hire and employ local and Alaska residents and companies, to the extent they are available and qualified, for work performed on the leased area. Lessees shall submit, with the plans of operations, a proposal detailing the means by which the lessee will comply with this measure. The lessee is encouraged to coordinate with employment services offered by the State of Alaska and local communities to employ apprentices to perform work in the leased area and to recruit employees from local communities.

33. **CONDITIONAL LEASE.** If all or a part of the leased area is land that has been selected by the state under laws of the United States granting lands to the state, but the land has not been patented to the state by the United States, then this lease is a conditional lease as provided by law until the patent becomes effective. If for any reason the selection is not finally approved, or the patent does not become effective, any rental, royalty, or other production or profit-based payments made to the state under this lease will not be refunded.

34. **NONDISCRIMINATION.** The lessee and the lessee's contractors and subcontractors may not discriminate against any employee or applicant because of race, religion, marital status, change in marital status, pregnancy, parenthood, physical handicap, color, sex, age, or national origin as set out in AS 18.80.220. The lessee and its contractors and subcontractors must, on beginning any operations under this lease, post in a conspicuous place notices setting out this nondiscrimination provision.

35. **DEFINITIONS.** All words and phrases used in this lease are to be interpreted where possible in the manner required in respect to the interpretation of statutes by AS 01.10.040. However, the following words have the following meanings unless the context unavoidably requires otherwise:

(1) "oil" means crude petroleum oil and other hydrocarbons, regardless of gravity, that are produced in liquid form by ordinary production methods, including liquid hydrocarbons known as distillate or condensate recovered by separation from gas other than at a gas processing plant;

(2) "gas" means all natural gas (except helium gas) and all other hydrocarbons produced that are not defined in this lease as oil;

(3) "associated substances" means all substances except helium produced as an incident of production of oil or gas by ordinary production methods and not defined in this lease as oil or gas;

(4) "drilling" means the act of boring a hole to reach a proposed bottom hole location through which oil or gas may be produced if encountered in paying quantities, and includes re-drilling, sidetracking, deepening, or other means necessary to reach the proposed bottom hole location, testing, logging, plugging, and other operations necessary and incidental to the actual boring of the hole;

(5) "reworking operations" means all operations designed to secure, restore, or improve production through some use of a hole previously drilled, including, but not limited to, mechanical or chemical treatment of any horizon, plugging back to test higher strata, etc.;

(6) "paying quantities" means production in quantities sufficient to yield a return in excess of operating costs, even though drilling and equipment costs may never be repaid and the undertaking considered as a whole may ultimately result in a loss; and

(7) "force majeure" means war, riots, acts of God, unusually severe weather, or any other cause beyond the lessee's reasonable ability to foresee or control and includes operational failure of existing transportation facilities and delays caused by judicial decisions or lack of them.

36. **ROYALTY ON PRODUCTION.** Except for oil, gas, and associated substances used on the leased area for development and production or unavoidably lost, the lessee shall pay to the state as a royalty 16.66667 percent in amount or value of the oil, gas, and associated substances saved, removed, or sold from the leased area and of the gas from the leased area used on the leased area for extraction of natural gasoline or other products.

37. **VALUE.** (a) For the purposes of computing royalties due under this lease, the value of royalty oil, gas, or associated substances shall not be less than the highest of:

(1) the field price received by the lessee for the oil, gas, or associated substances;

(2) the volume-weighted average of the three highest field prices received by other producers in the same field or area for oil of like grade and gravity, gas of like kind and quality, or associated substances of like kind and quality at the time the oil, gas, or associated substances are sold or removed from the leased or unit area or the gas is delivered to an extraction plant if that plant is located on the leased or unit area; if there are less than three prices reported by other producers, the volume-weighted average will be calculated using the lesser number of prices received by other producers in the field or area;

(3) the lessee's posted price in the field or area for the oil, gas, or associated substances; or

(4) the volume-weighted average of the three highest posted prices in the same field or area of the other producers in the same field or area for oil of like grade and gravity, gas of like kind and quality, or associated substances of like kind and quality at the time the oil, gas, or associated substances are sold or removed from the leased or unit area or the gas is delivered to an extraction plant if that plant is located on the leased or unit area; if there are less than three prices posted by other producers, the volume-weighted average will be calculated using the lesser number of prices posted by other producers in the field or area.

(b) If oil, gas, or associated substances are sold away from the leased or unit area, the term "field price" in subparagraph (a) above will be the cash value of all consideration received by the lessee or other producer from the purchaser of the oil, gas, or associated substances, less the lessee's actual and reasonable costs of transportation away from the leased or unit area to the point of sale. The "actual and reasonable costs of transportation" for marine transportation are as defined in 11 AAC 83.229(a), (b)(2), and (c) – (j).

(c) In the event the lessee does not sell in an arm's-length transaction the oil, gas, or associated substances, the term "field price" in subparagraphs (a) and (b) above will mean the price the lessee would expect to receive for the oil, gas, or associated substances if the lessee did sell the oil, gas, or associated substances in an arm's-length transaction, minus reasonable costs of transportation away from the leased or unit area to the point of sale or other disposition. The lessee must determine this price in a consistent and logical manner using information available to the lessee and report that price to the state.

(d) The state may establish minimum values for the purposes of computing royalties on oil, gas, or associated substances obtained from this lease, with consideration being given to the price actually received by the lessee, to the price or prices paid in the same field or area for production of like quality, to posted prices, to prices received by the lessee and/or other producers from sales occurring away from the leased area, and/or to other relevant matters. In establishing minimum values, the state may use, but is not limited to, the methodology for determining "prevailing value" as defined in 11 AAC 83.227. Each minimum value determination will be made only after the lessee has been given notice and a reasonable opportunity to be heard. Under this provision, it is expressly agreed that the minimum value of royalty oil, gas, or associated substances under this lease may not necessarily equal, and may exceed, the price of the oil, gas, or associated substances.

38. LESSEE SALES INFORMATION. Lessee acknowledges that sales information, including but not limited to confidential sales pricing terms, of the lessee for the production and sale of hydrocarbons from the lease may be used by the Department to administer the lease, and other leases in the field or area, including valuation for royalty purposes and the Department may disclose such confidential sales information to other producer/lessees in the same field or area in the administration, collection, and/or audit of royalties and net profit share payments. The Department also reserves the right to utilize information filed by the lessee with the Department of Revenue in the administration, collection, and/or audit of royalties and net profit share payments.

39. ROYALTY IN VALUE. Except to the extent that the state elects to receive all or a portion of its royalty in kind as provided in Paragraph 39 below, the lessee shall pay to the state that value of all royalty oil, gas, and associated substances as determined under Paragraph 36 above. Royalty paid in value will be free and clear of all lease expenses (and any portion of those expenses that is incurred away from the leased area), including, but not limited to, expenses for separating, cleaning, dehydration, gathering, saltwater disposal, and preparing the oil, gas, or associated substances for transportation off the leased area. All royalty that may become payable in money to the State of Alaska must be paid on or before the last federal banking day of the calendar month following the month in which the oil, gas, or associated substances are produced. The amount of all royalty in value payments which are not paid when due under this lease or the amount which is subsequently determined to be due to the state or the lessee as the result of a redetermination will bear interest from the last federal banking day of the calendar month following the month in which the oil, gas, or associated substances were produced, until the obligation is paid in full. Interest shall accrue at the rate provided in AS 38.05.135(d) or as may later be amended. Royalty payments must be accompanied by such information relating to valuation of royalty as the state may require which may include, but is not limited to, run tickets, evidence of sales, shipments, and amounts of gross oil, gas, and associated substances produced.

40. ROYALTY IN KIND. (a) At the state's option, which may be exercised from time to time upon not less than 50 days' notice to the lessee, the lessee shall deliver all or a portion of the state's royalty oil, gas, or associated substances produced from the leased area in kind. Delivery will be on the leased area, unit area, or at a place mutually agreed to by the state and the lessee, and must be delivered to the State of Alaska or to any individual, firm, or corporation designated by the state.

(b) Royalty oil, gas, or associated substances delivered in kind must be delivered in good and merchantable condition, of pipeline quality, and free and clear of all lease expenses (and any portion of those expenses incurred away from the leased area), including, but not limited to, expenses for separating, cleaning, dehydration, gathering, saltwater disposal, and preparing the oil, gas, or associated substances for transportation off the leased area.

(c) After having given notice of its intention to take, or after having taken its royalty oil, gas, or associated substances in kind, the state, at its option, may elect to receive a different portion or none of its royalty in kind. If, under federal regulations, the taking of royalty oil, gas, or associated substances in value by the state creates a supplier-purchaser relationship, the lessee hereby waives its right to continue to receive royalty oil, gas, or associated substances

under that relationship, and further agrees that it will require any purchasers of the royalty oil, gas, or associated substances likewise to waive any supplier-purchaser rights.

(d) The lessee shall furnish storage for royalty oil, gas, and associated substances produced from the leased or unit area to the same extent that the lessee provides storage for the lessee's share of oil, gas, and associated substances. The lessee shall not be liable for the loss or destruction of stored royalty oil, gas and associated substances from causes beyond the lessee's ability to control.

(e) If a state royalty purchaser refuses or for any reason fails to take delivery of oil, gas, or associated substances, or in an emergency, and with as much notice to the lessee as is practical or reasonable under the circumstances, the state may elect without penalty to underlift for up to six months all or a portion of the state's royalty on oil, gas, or associated substances produced from the leased or unit area and taken in kind. The state's right to underlift is limited to the portion of royalty oil, gas, or associated substances that the royalty purchaser refused or failed to take delivery of, or the portion necessary to meet the emergency condition. Underlifted oil, gas, or associated substances may be recovered by the state at a daily rate not to exceed 100 percent of its royalty interest share of daily production at the time of the underlift recovery.

41. REDUCTION OF ROYALTY. Lessee may request a reduction of royalty in accordance with the applicable statutes and regulations in effect on the date of application for the reduction.

42. EFFECTIVE DATE. This lease takes effect on \_\_\_\_\_.

BY SIGNING THIS LEASE, the state as lessor and the lessee agree to be bound by its provisions.

STATE OF ALASKA

By: \_\_\_\_\_

Director, Division of Oil and Gas

STATE OF ALASKA        )  
  ) ss.  
Third Judicial District    )

On \_\_\_\_\_, before me appeared \_\_\_\_\_ of the Division of Oil and Gas of the State of Alaska, Department of Natural Resources, and who executed this lease and acknowledged voluntarily signing it on behalf of the State of Alaska as lessor.

\_\_\_\_\_  
Notary public in and for the State of Alaska  
My commission expires \_\_\_\_\_

LESSEE: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

INSERT NOTARY ACKNOWLEDGMENT OF LESSEE'S SIGNATURE HERE.

LESSEE: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

INSERT NOTARY ACKNOWLEDGMENT OF LESSEE'S SIGNATURE HERE.

LESSEE: \_\_\_\_\_

Signature: \_\_\_\_\_

Printed Name/Title: \_\_\_\_\_

INSERT NOTARY ACKNOWLEDGMENT OF LESSEE'S SIGNATURE HERE.



Attachment 1. Alaska Department of Natural Resources, Division of Oil & Gas  
Submittal of Well Data Required by DNR Lease

Data shall be submitted to the Division in a digital format, generally in PDF. For spreadsheets, include the original Excel document. For images such as maps or charts, include a high-resolution TIFF or JPEG. For logs, see formats specified below, but include a graphical image file of the logs as a PDF or TIFF in addition to the final merged data file of the log curves. Data may be submitted on CD, DVD or USB mass storage device (include any necessary cables). Required data shall include any and all of the following:

1. A copy of the well completion report (AOGCC Form 10-407) for each well bore.
2. Daily drilling reports or a summary report of daily drilling.
3. Latitudinal and longitudinal coordinates for each well, pilot hole, and plugged back well bore with completed surface and bottom hole locations. Coordinates can be based upon either the NAD 83 or NAD 27 geodetic datum as long as the datum used is clearly specified.
4. Directional survey for each well, pilot hole, and plugged back well bore.
5. A list of all logs run and the depth interval covered for each well, pilot hole, and plugged back well bore.
6. A list of formations and other geologic markers encountered and the measured depths (MD) and true vertical depths (TVD) of each, for each well, pilot hole, and plugged back well bore.
7. Summary of cored intervals (conventional and sidewall), including depth, formation name, lithology, presence of oil, gas, gas hydrates, and water, porosity, fractures and apparent dips; indicate "**none**" on completion report or in an attachment if no cores were taken.
8. Core reports including lab analyses of lithology, porosity, permeability (vertical and horizontal, air and liquid), density, capillary pressure, and fluid saturation, if available.
9. Conventional and sidewall core photos (plain light and ultraviolet), if applicable.
10. Identified formation names and corresponding depths for oil, gas, and gas hydrate shows. Indicate "**none**" on the completion report or in an attachment if no shows were observed.
11. Identified depth zones of abnormal pressure. Indicate "**none**" on the completion report or in an attachment if none were observed.
12. A synopsis or summary of testing and all fluid recovery efforts, including production tests (IP), drill stem tests (DST), wireline formation tests (i.e. repeat formation tests (RFT) and modular dynamics tests (MDT)), and any other production and formation testing data; the summary should include test date, time, depth, formation name, method of operation, recovered fluid type(s) and amount(s), fluid rate, gas-oil ratio (GOR), oil gravity, pressure, and choke size, when available. If no tests were undertaken, indicate "**none**" where appropriate on the completion report or in an attachment, if tests were undertaken but failed to recover fluids indicate "**no recovery**".
13. Pressure build-up and fluid PVT analyses, if applicable.
14. Open flow potential test reports and report attachments to AOGCC Forms 10-421.
15. Well test procedures, field chronologies, and field data; including details necessary for evaluation (intervals open to test; volumes of oil, gas, water, mud, and other borehole substances; API gravity; gas density; wellhead and down hole pressure; and formation and wellhead temperature).
16. Geochemical and formation fluid analyses and reports, if applicable.
17. Down hole and surface fluid sampling procedures, field chronologies, raw data, and laboratory test results for all water and hydrocarbon-bearing zones (oil, gas, gas hydrates) sampled; including details sufficient to fully evaluate quality of sample data.
18. Permit to drill (AOGCC form 10-401) and the survey as-built of the well location.
19. LAS Version 2, TAP, TIF, LIS and DLIS (if available) files of final merged open-and cased-hole log data, including specialty logs (such as Schlumberger's cyberlook, formation microscanners and dipmeter logs), measured-while-drilling (MWD) and logged-while-drilling (LWD) logs. Include a graphical image file of the 2-inch MD & TVD logs as a PDF or TIFF in addition to the log data file.
20. LAS Version 2 of final composite mudlog or lithology log curves. Include a graphical image file of the final 2-inch MD & TVD logs, with lithology display, oil, gas, and gas hydrate show indicators, mud properties, and cuttings descriptions and report as a PDF or TIFF in addition to the log data file.
21. Clear, legible files of all well data and reports including, but not limited to, paleontology, palynology, petrography (including point-count analyses), X-ray diffraction analyses, SEM micrographs, thermal maturity, vitrinite reflectance, total organic carbon, RockEval pyrolysis, geochronology, fission track analyses, fluid inclusion analyses, Mercury injection capillary pressure analyses, chemical analyses (EPMA, XRF, ICP, etc.), isotope analyses, water chemistry, burial and temperature history analyses, strain analyses, acoustic analyses, gas hydrate analyses and well pressure and temperature survey analyses.

22. Final reports of velocity, checkshot or VSP surveys (an ASCII format digital version of the above data shall also be submitted), including seismic profile data in SEG-Y format. Indicate "none" in your response to this request if no velocity, checkshot or VSP surveys were undertaken. Submission of velocity, checkshot, and VSP surveys is always required by DNR under the operator surface-use permit obligations.
23. All coalbed core, gas, and water quality reports including lab analyses of core lithology, coal rank, vitrinite reflectance, maceral composition, total organic carbon, ash, sulfur and BTU content, moisture content, cleating, adsorption/desorption data, residual gas measurements, porosity and permeability analyses, core photos, if available.
24. Any other geoscience- and engineering-related data sets from the well(s).

Please note: Physical samples of well cuttings or cores specified in 20 AAC 25.071(b)(2) and 20 AAC 25.071(b)(4) should be sent to AOGCC, not to the Division.

All material should be either hand-carried by bonded courier or mailed by registered mail to:

Resource Evaluation Section  
Alaska Department of Natural Resources, Division of Oil & Gas  
550 West 7th Avenue, Suite 1100  
Anchorage, AK 99501-3510  
Email: [DOG.REdata@alaska.gov](mailto:DOG.REdata@alaska.gov)

## BEAUFORT SEA AREA WIDE 2018

### COMPETITIVE OIL AND GAS LEASE SALE

#### **Mitigation Measures and Lessee Advisories**

AS 38.05.035(e) and the departmental delegation of authority provide the director, Division of Oil and Gas (DO&G) (“director”), with the authority to impose conditions or limitations, in addition to those imposed by statute, to ensure that a resource disposal is in the state’s best interests. Consequently, to mitigate the potential adverse social and environmental effects of specific lease-related activities, DO&G has developed mitigation measures and will condition plans of operation, exploration, or development and other permits based on these mitigation measures.

Lessees must obtain approval of a detailed plan of operations from the director before conducting exploration, development, or production activities. A plan of operations must identify the sites for planned activities and the specific measures, design criteria, construction methods, and operational standards to be employed to comply with the restrictions listed below. It must also address any potential geophysical hazards that may exist at the site.

These measures were developed after considering terms imposed in earlier competitive lease sales and comments and information submitted by the public, local governments, environmental organizations, and other federal, state, and local agencies. Additional measures will likely be imposed when lessees submit a proposed plan of operations.

Lessees must comply with all applicable local, state, and federal codes, statutes, and regulations, as amended, as well as all current or future ADNR area plans and recreation rivers plans; and ADF&G game refuge plans, critical habitat area plans, and sanctuary area plans within which a lease area is located. Lease activities must be consistent with the enforceable policies of the Alaska Coastal Management Program (ACMP), including statewide standards and the enforceable policies of an affected coastal district with a plan in effect.

The director may grant exceptions to these mitigation measures. Exceptions will only be granted upon a showing by the lessee that compliance with the mitigation measure is not practicable or that the lessee will undertake an equal or better alternative to satisfy the intent of the mitigation measure. Requests and justifications for exceptions must be included in the plan of operations. The decision whether to grant an exception will be made during the public review of the plan of operations.

Except as indicated, the mitigation measures do not apply to geophysical exploration on state lands; geophysical exploration activities are governed by 11 AAC 96. Lessees or non-lessee companies may propose various operations, which include seismic surveys, in the sale area. Lessees may not have control over those activities not contracted by them. However, post-lease seismic surveys conducted or contracted by the lessee, are considered lease-related activities. Restrictions on geophysical exploration permits, whether lease-related or not, will depend on the size, scope, duration, and intensity of the proposed project and on the reasonably foreseeable effects on important species, specifically marine mammals.

Studies indicate that some geophysical activities may have an impact on the behavior of bowhead whales. Measures may be imposed on geophysical exploration permits in the vicinity of bowhead whale migratory routes during spring or fall migrations. See the subsistence mitigation measures. The extent of effects on marine mammals varies depending on the type of survey and gear used.

Copies of the non-proprietary portions of all Geophysical Exploration Permit Applications will be made available to the North Slope Borough, Alaska Eskimo Whaling Commission, and potentially affected subsistence communities for comment.

Agency abbreviations are:

Abbreviation	Agency Name
ADF&G	Alaska Department of Fish and Game
ADEC	Alaska Department of Environmental Conservation
ADNR	Alaska Department of Natural Resources
AESC	Alaska Eskimo Whaling Commission
DMLW	Division of Mining, Land, and Water (ADNR)
DO&G	Division of Oil and Gas (ADNR)
DPOR	Division of Parks and Recreation
NMFS	National Marine Fisheries Service
NSB	North Slope Borough
USFWS	U.S. Fish and Wildlife Service

## A. Mitigation Measures

### 1. Facilities and Operations

- a. A plan of operations must be submitted and approved before conducting exploration, development, or production activities, and must describe the lessee's plans to avoid or minimize impacts on residential, commercial, and recreational areas, Native allotments and subsistence use areas. At the time of application, lessee must submit a copy of the proposed plan of operations to all surface owners whose property will be entered.
- b. Facilities must be designed and operated to avoid or minimize sight and sound impacts in areas of high residential, commercial, recreational, and subsistence use and important wildlife habitat. Methods may include providing natural buffers and screening to conceal facilities, sound insulation of facilities, or by using alternative means approved by the director, in consultation with ADF&G and the NSB.
- c. To the extent practicable, the siting of facilities, other than docks, roads, utility, and pipeline crossings will be prohibited within 500 feet of all fish-bearing streams and water bodies and 1,500 feet from all current surface drinking water sources. Additionally, to the extent practicable, the siting of facilities will be prohibited within one-half mile of the banks of the main channel of the Colville, Canning, Sagavanirktok, Shaviovik, Kadleroshilik, and Kuparuk rivers. Facilities may be sited within these buffers if the lessee demonstrates to the satisfaction of the director, in consultation with ADF&G, that site locations outside these buffers are not practicable or that a location inside the buffer is environmentally preferred. Road, utility, and pipeline crossings must be consolidated and aligned perpendicular or near perpendicular to watercourses.
- d. Impacts to identified wetlands must be minimized to the satisfaction of the director, in consultation with ADF&G and ADEC. The director will consider whether facilities are sited in

the least sensitive areas. Further, certain activities within wetlands require permission from the U.S. Army Corps of Engineers (see Lessee Advisories).

- e. Exploration facilities must be temporary and must be constructed of ice unless the director determines that no practicable alternative exists. Use of gravel structures may be permitted on a case-by-case basis by the director, after consultation with DMLW, and ADF&G. Approval for use of existing structures will depend on the extent and method of restoration needed to return these structures to a usable condition.
- f. Pipelines must utilize existing transportation corridors where conditions permit. Pipelines and gravel pads must be designed to facilitate the containment and cleanup of spilled fluids. Where practicable, onshore pipelines must be located on the upslope side of roadways and construction pads unless DMLW determines that an alternative site is environmentally acceptable. Wherever possible, onshore pipelines must be buried where soil and geophysical conditions permit. All pipelines, including flow and gathering lines, must be designed, constructed and, maintained to assure integrity against climatic conditions, geophysical hazards, corrosion and other hazards as determined on a case-by-case basis.
- g. Onshore pipelines shall be designed and constructed to minimize alteration of caribou and other large ungulate movement and migration patterns. At a minimum, above-ground pipelines shall be elevated 7 feet, as measured from the ground to the bottom of the pipe, except where the pipeline intersects a road, pad, or a ramp installed to facilitate wildlife passage. Lessees shall consider increased snow depth in the sale area in relation to pipe elevation to ensure adequate clearance for wildlife. ADNR may, after consultation with ADF&G, require additional measures to mitigate impacts to wildlife movement and migration.
- h. All pipelines, including flow and gathering lines, must be designed and constructed to provide adequate protection from water currents, storm and ice scouring, subfreezing conditions, coastal erosion, permafrost thawing, and other hazards as determined on a case-by-case basis.
- i. Offshore oil and gas transportation pipelines will be encouraged if the director determines that the laying of such pipelines is technically feasible and environmentally preferable to transport by oil tanker or other means.
- j. Following the installation of a pipeline of sufficient capacity, no crude oil will be transported by surface vessel from offshore production sites, except in an emergency. The director will evaluate the emergency and determine an appropriate response to the condition.
- k. Causeways
  - i. Continuous-fill causeways are prohibited. Environmentally preferred alternatives for field development include use of buried pipelines, onshore directional drilling, or elevated structures. Non-continuous-fill causeways must be designed, sited, and constructed to prevent significant changes to nearshore oceanographic circulation patterns and water quality characteristics (e.g., salinity, temperature, suspended sediments) that exceed water quality criteria, and must maintain free passage of marine and anadromous fish.
  - ii. Causeways and docks shall not be located in river mouths or deltas. Artificial gravel islands and bottom founded structures shall not be located in river mouths or active stream channels on river deltas, except as provided for in measure iii below.

- iii. Each proposed structure will be reviewed on a case-by-case basis. Causeways, docks, artificial gravel islands, and bottom-founded structures may be permitted if the director, in consultation with ADF&G, ADEC, and the NSB determines that a causeway or other structures are necessary for field development and that no practicable alternatives exist. A monitoring program may be required to address the objectives of water quality and free passage of fish, and mitigation shall be required where significant deviation from objectives occurs. (See also Lessee Advisories regarding U.S. Army Corps of Engineers requirements.)
- l. Dismantlement, Removal and Rehabilitation (DR&R): Upon abandonment of material sites, drilling sites, roads, buildings, or other facilities, such facilities must be removed and the site rehabilitated to the satisfaction of the director, unless the director, in consultation with DMLW, ADF&G, ADEC, NSB, and any non-state surface owner, determines that such removal and rehabilitation is not in the state's interest.
- m. Gravel mining sites required for exploration and development activities will be restricted to the minimum necessary to develop the field efficiently and with minimal environmental damage. Where practicable, gravel sites must be designed and constructed to function as water reservoirs for future use. Gravel mine sites required for exploration activities must not be located within an active floodplain of a watercourse unless DMLW, after consultation with ADF&G, determines that there is no practicable alternative, or that a floodplain site would enhance fish and wildlife habitat after mining operations are completed and the site is closed.

Mine site development and rehabilitation within floodplains must follow the procedures outlined in McLean, R. F. 1993, North Slope Gravel Pit Performance Guidelines, ADF&G Habitat and Restoration Division Technical Report 93-9, available from ADF&G.

## **2. Habitat, Fish, and Wildlife**

- a. Detonation of explosives will be prohibited in open water areas of fish-bearing streams and lakes. Explosives must not be detonated beneath, or in proximity to fish-bearing streams and lakes if the detonation of the explosive produces a pressure rise in the water body of greater than 2.7 pounds per square inch, or unless the water body, including its substrate, is solidly frozen. Detonation of explosives within or in close proximity to a fish spawning bed during the early stages of egg incubation must not produce a peak particle velocity greater than 0.5 inches per second. Blasting criteria have been developed by ADF&G and are available upon request from ADF&G. The location of known fish-bearing waters within the project area can also be obtained from ADF&G.

The lessee will consult with the NSB before proposing the use of explosives for seismic surveys. The director may approve the use of explosives for seismic surveys after consultation with the NSB.

- b. Removal of water from fish-bearing rivers, streams, and natural lakes shall be subject to prior written approval by DMLW and ADF&G. Water intake pipes used to remove water from fish-bearing water bodies must be surrounded by a screened enclosure to prevent fish entrainment and impingement. Screen mesh size shall be no greater than 1 mm (0.04 inches), unless another size has been approved by ADF&G. The maximum water velocity at the surface of the screen enclosure may be no greater than 0.1 foot per second, unless an alternative velocity has been approved by ADF&G

- c. Removal of snow from fish-bearing rivers, streams, and natural lakes shall be subject to prior written approval by ADF&G. Compaction of snow cover overlying fish-bearing water bodies is prohibited except for approved crossings. If ice thickness is not sufficient to facilitate a crossing, ice or snow bridges may be required.
- d. Bears:
  - i. Lessees are required to prepare and implement a human-bear interaction plan designed to minimize conflicts between bears and humans. The plan should include measures to:
    - A. minimize attraction of bears to facility sites, including garbage and food waste;
    - B. organize layout of buildings and work areas to minimize interactions between humans and bears such as including the use of electric fencing;
    - C. warn personnel of bears near or on facilities and the proper actions to take;
    - D. if authorized, deter bears from the drill site;
    - E. provide contingencies in the event bears do not leave the site;
    - F. provide for proper storage and disposal of materials that may be toxic to bears; and
    - G. document and communicate the sighting of bears onsite or in the immediate area to all shift employees.
  - ii. Before commencement of any activities, lessees shall consult with ADF&G to identify the locations of any known brown bear den sites that are occupied in the season of proposed activities. Exploration and development activities started between September 20 and May 15 may not be conducted within one-half mile of known occupied brown bear dens, unless alternative mitigation measures are approved by ADF&G. A lessee who encounters an occupied brown bear den not previously identified by ADF&G must report it to the Division of Wildlife Conservation, ADF&G, within 24 hours. Mobile activities shall avoid such discovered occupied dens by one-half mile unless alternative mitigation measures are approved by DO&G with concurrence from ADF&G. Non-mobile facilities will not be required to relocate.
  - iii. Before commencement of any activities, lessees shall consult with the USFWS to identify the locations of known polar bear den sites. Operations must avoid known polar bear dens by 1 mile. A lessee who encounters an occupied polar bear den not previously identified by USFWS must report it to the USFWS within 24 hours and subsequently avoid the new den by 1 mile. If a polar bear should den within an existing development, off-site activities shall be restricted to minimize disturbance.
- e. Permanent, staffed facilities must be sited to the extent practicable outside identified brant, white-fronted goose, snow goose, tundra swan, king eider, common eider, Steller's eider, spectacled eider, and yellow-billed loon nesting and brood rearing areas.
- f. Due to high concentrations of staging and molting brant and other waterbirds within the coastal habitats along the Teshekpuk Lake Special Area (TLSA) and other areas, operations that create high levels of disturbance, including but not limited to dredging, gravel washing, and boat and barge traffic along the coast, will be prohibited from June 20 to September 15 within one-half mile of coastal salt marshes, specifically tracts 187, 209, 320, 483-485, 493, 494, 496, 497, 500-514,

517-519, 524, and 530. In addition, tracts 228 and 231, and tracts 521-526 are subject to the same restrictions between May 15 and July 30 to protect large concentrations of breeding snow geese. The construction and siting of facilities within one mile of these areas may be allowed on a case-by-case basis if the director and ADF&G determine that no other feasible and prudent location exists.

- g. To protect hauled-out spotted seals, boat and barge traffic will be prohibited between July 15 and October 1 within one-half mile of the Piasuk River delta and Oarlock Island.

### **3. Subsistence, Commercial, and Sport Harvest Activities**

- a.
  - i. Before submitting a plan of operations for either onshore or offshore activities that have the potential to disrupt subsistence activities, the lessee shall consult with the potentially affected subsistence communities, the AEWC, and the NSB (collectively “parties”) to discuss the siting, timing, and methods of proposed operations and safeguards or mitigating measures that could be implemented by the operator to prevent unreasonable conflicts. The parties shall also discuss the reasonably foreseeable effect on subsistence activities of any other operations in the area that they know will occur during the lessee’s proposed operations. Through this consultation, the lessee shall make reasonable efforts to assure that exploration, development, and production activities are compatible with subsistence hunting and fishing activities and will not result in unreasonable interference with subsistence harvests. In order to avoid conflicts with subsistence, commercial, and sport harvest activities, restrictions may include alternative site selection, requiring directional drilling, seasonal drilling restrictions, and other technologies deemed appropriate by DO&G.
  - ii. A discussion of resolutions reached or not reached during the consultation process and any plans for continued consultation shall be included in the plan of operations. The lessee shall identify who participated in the consultation and send copies of the plan to participating communities and the NSB when it is submitted to the division.
  - iii. If the parties cannot agree, then any of them may request that the commissioner of ADNR or his/her designee to intercede. The commissioner may assemble the parties or take other measures to resolve conflicts among the parties.
  - iv. The lessee shall notify the director of all concerns expressed by subsistence hunters during operations and of steps taken to address such concerns.
- b. Traditional and customary access to subsistence areas shall be maintained unless reasonable alternative access is provided to subsistence users. “Reasonable access” is access using means generally available to subsistence users. Lessees will consult the NSB, nearby communities, and native organizations for assistance in identifying and contacting local subsistence users.
- c. Whale Harvest Protection:
  - i. Permanent facility siting on Cross Island will be prohibited unless the lessee demonstrates to the satisfaction of the NSB, in consultation with the AEWC, that the development will not preclude reasonable access to whales as defined in Section A8 and as may be determined in a conflict avoidance agreement, if required by the NSB. With the approval of the NSB, the director may authorize permanent facilities.



- ii. Permanent facility siting in state waters within 3 miles of Cross Island will be prohibited unless the lessee demonstrates to the satisfaction of the director, in consultation with the NSB and the AEW, that the development will not preclude reasonable access to whales as defined in Section A8 and as may be determined in a conflict avoidance agreement if required by the NSB.
  - iii. Permanent facility siting in state waters between the west end of Arey Island and the east end of Barter Island (Tracts 40 through 45) will be prohibited unless the lessee demonstrates to the satisfaction of the director, in consultation with the NSB and the AEW, that the development will not preclude reasonable access to whales as defined in Section A8 and as may be determined in a conflict avoidance agreement if required by the NSB.
- d. Any tract or portion thereof in the Beaufort Sea Areawide lease sale area may be subject to seasonal drilling restrictions in conjunction with the submission of a plan of operations permit application by the lessee.
- i. Exploratory Drilling From Bottom-founded Drilling Structures and Natural and Gravel Islands: Subject to measure iii below, exploratory drilling operations and other downhole operations from bottom-founded drilling structures and natural and gravel islands are allowed year-round in the Central Subsistence Whaling Zone (SWZ).<sup>1</sup> In the Eastern SWZ, drilling is prohibited upon commencement of the fall bowhead whale migration until whaling quotas have been met.
  - ii. Exploratory Drilling Operations from Floating Drilling Structures: Subject to measure iii below, exploratory drilling below a predetermined threshold depth and other downhole operations from floating drilling structures is prohibited throughout the Beaufort Sea upon commencement of the fall bowhead whale migration until the whale migration mid-point.<sup>2</sup>

In addition to the above restriction, exploratory drilling above and below a predetermined threshold depth in the Eastern SWA from floating drilling structures is prohibited upon commencement of the fall bowhead whale migration until the whaling quotas have been met.

In the Central and Western SWZ, exploratory drilling above and below a predetermined threshold depth may be prohibited on a case-by-case basis until the whaling quotas have been met.<sup>3</sup> The following criteria will be used to evaluate these operations: 1) proximity of drilling

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1 Subsistence Whaling Zones:

Eastern SWZ is that area within 20 nautical miles of the shoreline between 141° and 144° W longitude.

Central SWZ is that area within 20 nautical miles of the shoreline between 144° and 151° W longitude.

Western SWZ is that area within 20 nautical miles of the shoreline between 154° and 157° W longitude.

2 Migration Dates:

Eastern SWZ - September 1 - October 10 with the midpoint of the migration on September 20.

Central SWZ and Western SWZ - September 10 - October 20 with the midpoint of the migration on September 28.

Outside SWZ - Seaward of the Eastern SWZ - September 1 - October 10 with the midpoint of the migration on September 20; Seaward and west of the Central SWZ - September 10 - October 20 with the midpoint of migration on September 28. The midpoint of the migration is when 50 percent of the whales have been deemed to have passed the drill site.

- 3 If upon review of the proposed operation using the above described criteria, the state determines that conflict with subsistence whaling activities may occur, additional drilling restrictions, similar to those imposed for the Eastern SWZ, may be imposed in the Central and Western SWZ's. In the Eastern SWZ, drilling is prohibited upon commencement of the fall bowhead migration until whaling quotas have been met.

operations to active or proposed whaling areas, 2) drilling operation type and feasible drilling alternatives, 3) number of drilling operations in the same area, 4) number of whaling crews in the area, and 5) the operator's plans to coordinate activities with the whaling crews in accordance with Mitigation Measure A3a.

All non-essential activities associated with drilling are prohibited in the Central SWZ during the whale migration until whaling quotas have been met. Essential support activity associated with drilling structures occurring within active whaling areas shall be coordinated with local whaling crews in accordance with Mitigation Measure A3a.

"Essential activities" include those necessary to maintain well control, maintain physical integrity of the drilling structure, and scheduled crew changes. Support craft include aircraft, boats, and barges. "Non-essential activity," by exclusion, are those activities that do not fit the definition of essential activities. Both types of activities must be described by the operators in their exploration plans submitted for state review. To the extent feasible, mobilization or demobilization of the drilling structures should not occur during the whale migration. If operators propose to mobilize or demobilize during the whale migration, they must describe the activity in their exploration plan and must demonstrate why the activity must occur during the migration period.

- iii. Exploratory Drilling in Broken Ice: Lessees conducting drilling operations during periods of broken ice must:
  - A. be trained and qualified in accordance with Minerals Management Service standards pertaining to well-control equipment and techniques; and
  - B. have an oil spill contingency plan approved by the state that includes requirements for in situ igniters, fire resistant boom, relief well plans, and a decision process for igniting an uncontrolled release of oil;
  - C. participate in an oil spill research program.
- e. Exploration, development and production activities located on lease tracts 1 through 26 shall be conducted in a manner that prevents unreasonable conflicts between oil and gas activities and subsistence whale hunting.
  - i. Before submitting a plan of operations for activities on lease tracts 1 through 26, the lessee shall consult with the NSB, the AEW, and the community of Kaktovik to discuss how the siting, timing, and methods of proposed operations can be planned and carried out to avoid potential conflicts with subsistence whale hunting. Through this consultation, which may include the negotiation of a conflict avoidance agreement, the lessee shall make every reasonable effort to ensure that their activities will not result in unreasonable interference with subsistence whale hunting.
  - ii. A plan of operations for activities on lease tracts 1 through 26 shall include a discussion of the consultation process and any resulting conflict avoidance agreements. In the event that no agreement is reached, the lessee, the NSB, the AEW, or the community of Kaktovik may request that ADNR call a meeting of representatives of the NSB, the AEW, the community of Kaktovik, and the lessee to discuss the potential conflict caused by the proposed activities, and attempt to resolve the issues. If the parties are still unable to reach an agreement, then ADNR will make a final determination of the measures proposed to be taken to prevent unreasonable interference with subsistence whale hunting.

## 4. Fuel, Hazardous Substances, and Waste

- a. Secondary containment (see definition) shall be provided for the storage of fuel or hazardous substances.
- b. Containers with a storage capacity larger than 55 gallons that contain fuel or hazardous substances shall not be stored within 100 feet of a water body, or within 1,500 feet of a current surface drinking water source.
- c. During equipment storage or maintenance, the site shall be protected from leaking or dripping fuel and hazardous substances by the placement of drip pans or other surface liners designed to catch and hold fluids under the equipment, or by creating an area for storage or maintenance using an impermeable liner or other suitable containment mechanism.
- d. During fuel or hazardous substance transfer, secondary containment or a surface liner must be placed under all container or vehicle fuel tank inlet and outlet points, hose connections, and hose ends. Appropriate spill response equipment, sufficient to respond to a spill of up to 5 gallons, must be on hand during any transfer or handling of fuel or hazardous substances. Trained personnel shall attend transfer operations at all times.
- e. Vehicle refueling shall not occur within the annual floodplain, except as addressed and approved in the plan of operations. This measure does not apply to water-borne vessels.
- f. All independent fuel and hazardous substance containers shall be marked with the contents and the lessee's or contractor's name using paint or a permanent label.
- g. A fresh water aquifer monitoring well, and quarterly water quality monitoring, may be required down gradient of a permanent above-ground liquid hydrocarbon storage facility.
- h. Waste from operations must be reduced, reused, or recycled to the maximum extent practicable. Garbage and domestic combustibles must be incinerated or disposed of at an approved site in accordance with 18 AAC 60. (See also Section B2, below.)
- i. New solid waste disposal sites will not be approved or located on state property during the exploration phase. Exceptions may be provided for drilling waste if the facility will comply with the applicable provisions of 18 AAC 60.
- j. Wherever practicable, the preferred method for disposal of muds and cuttings from oil and gas activities is by underground injection. Other methods of disposal shall be allowed only upon approval by the director, in consultation with ADEC and ADF&G.
- k. Proper disposal of garbage and putrescible waste is essential to minimize attraction of wildlife. The lessee must use the most appropriate and efficient method to achieve this goal. The primary method of garbage and putrescible waste disposal is prompt, on-site incineration in compliance with state air quality control regulations (18 AAC 50). The secondary method of disposal is on-site frozen storage in animal-proof containers with backhaul to an approved waste disposal facility. The tertiary method of disposal is on-site non-frozen storage in animal proof containers with backhaul to an approved waste disposal facility. Daily backhauling of non-frozen waste must be achieved unless safety considerations prevent it.

## **5. Access**

- a. Except for approved off-road travel, exploration activities must be supported only by ice roads, winter trails, existing road systems or air service. Wintertime off-road travel across tundra and wetlands may be approved in areas where snow and frost depths are sufficient to protect the ground surface. Summertime off-road travel across tundra and wetlands may be authorized subject to time periods and vehicle types approved by DMLW. Exceptions may be granted by DMLW, and the director, if an emergency condition exists; or, if it is determined, after consulting with ADF&G that travel can be accomplished without damaging vegetation or the ground surface.
- b. Public access to, or use of, the lease area may not be restricted except within the immediate vicinity of drill sites, buildings, and other related facilities. Areas of restricted access must be identified in the plan of operations. Lease facilities and operations shall not be located so as to block access to or along navigable or public waters as defined in AS 38.05.965.

## **6. Prehistoric, Historic, and Archaeological Sites**

- a. Before the construction or placement of any gravel, or other structure, road, or facility resulting from exploration, development, or production activities, the lessee must conduct an inventory of prehistoric, historic, and archaeological sites within the area affected by an activity. The inventory must include consideration of literature provided by the NSB, nearby communities, Native organizations, and local residents; documentation of oral history regarding prehistoric and historic uses of such sites; evidence of consultation with the Alaska Heritage Resources Survey and the National Register of Historic Places; and site surveys. The inventory must also include a detailed analysis of the effects that might result from the activity.
- b. The inventory of prehistoric, historic, and archaeological sites must be submitted to the director and to DPOR Office of History and Archaeology who will coordinate with the NSB for review and comment. If a prehistoric, historic, or archaeological site or area could be adversely affected by a lease activity, the director, after consultation with DPOR Office of History and Archaeology and the NSB, will direct the lessee as to the course of action to take to avoid or minimize adverse effects.
- c. If a site, structure, or object of prehistoric, historic, or archaeological significance is discovered during lease operations, the lessee must report the discovery to the director as soon as possible. The lessee must make reasonable efforts to preserve and protect the discovered site, structure, or object from damage until the director, after consultation with DPOR Office of History and Archaeology and the NSB, has directed the lessee as to the course of action to take for its preservation.

## **7. Local Hire, Communication, and Training**

- a. Lessees are encouraged to employ local and Alaska residents and contractors, to the extent they are available and qualified, for work performed in the lease area. Lessees shall submit, as part of the plan of operations, a proposal detailing the means by which the lessee will comply with the measure. The proposal must include a description of the operator's plans for partnering with local communities to recruit, hire and train local and Alaska residents and contractors. The lessee is encouraged, in formulating this proposal, to coordinate with employment and training services offered by the State of Alaska and local communities to train and recruit employees from local communities.

- b. A plan of operations application must describe the lessee's past and prospective efforts to communicate with local communities and interested local community groups.
- c. A plan of operations application must include a training program for all personnel including contractors and subcontractors. The program must be designed to inform each person working on the project of environmental, social, cultural, health, and safety concerns that relate to that person's job. The program must use methods to ensure that personnel understand and use techniques necessary to preserve geological, archaeological, and biological resources. In addition, the program must be designed to help personnel increase their sensitivity and understanding of community values, customs, and lifestyles in areas where they will be operating.

## 8. Definitions

**Facilities** means any structure, equipment, or improvement to the surface, whether temporary or permanent, including, but not limited to, roads, pads, pits, pipelines, power lines, generators, utilities, airstrips, wells, compressors, drill rigs, camps and buildings.

**Hazardous substance** means (A) an element or compound that, when it enters into or on the surface or subsurface land or water of the state, presents an imminent and substantial danger to the public health or welfare, or to fish, animals, vegetation, or any part of the natural habitat in which fish, animals, or wildlife may be found; or (B) a substance defined as a hazardous substance under 42 USC 9601 - 9675 (Comprehensive Environmental Response, Compensation, and Liability Act of 1980); "hazardous substance" does not include uncontaminated crude oil or uncontaminated refined oil (AS 46.09.900).

**Identified wetlands** are those areas that have been identified as wetlands by the U. S. Army Corps of Engineers under Section 404 of the Clean Water Act.<sup>4</sup>

**Minimize** means to reduce adverse impacts to the smallest amount, extent, duration, size, or degree reasonable in light of the environmental, social, or economic costs of further reduction.

**Plan of operations** means a lease plan of operations under 11 AAC 83.158 and a unit plan of operations under 11 AAC 83.346.

**Practicable** means feasible in light of overall project purposes after considering cost, existing technology, and logistics of compliance with the standard.

**Reasonable access** means access using means generally available to subsistence users.

**Secondary containment** means an impermeable diked area or portable impermeable containment structure capable of containing 110 percent of the volume of the largest independent container. Double walled tanks do not qualify as Secondary Containment unless an exception is granted for a particular tank.

**Temporary** means no more than 12 months.

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4 **Wetlands** means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas (40 CFR Parts 122.2, 230.3, and 232.2).

## **B. Other Regulatory Requirements (Lessee Advisories)**

Lessees must comply with all applicable local, state, and federal codes, statutes, and regulations, as amended. Lessee Advisories alert lessees to additional restrictions that may be imposed at the permitting stage of a proposed project or activity where entities other than DO&G have regulatory, permitting, or management authority.

### **1. Alaska Department of Natural Resources, Division of Coastal and Ocean Management**

- a. Pursuant to AS 46.40, projects are required to comply with all policies and enforceable standards of the Alaska Coastal Management Program, including the District Coastal Management Plans.

### **2. Alaska Department of Environmental Conservation**

- a. Pursuant to AS 46.04.030, lessees are required to have an approved oil discharge prevention and contingency plan (C-Plan) before commencing operations. The plan must include a response action plan to describe how a spill response would occur, a prevention plan to describe the spill prevention measures taken at the facility, and supplemental information to provide background and verification information.
- b. Pursuant to state regulations administered by ADEC and the Clean Air Act administered by EPA, lessees are required to obtain air quality permits before construction and operation. The permits will include air quality monitoring, modeling, and emission control obligations.
- c. Unless authorized by an ADEC permit, surface discharge of reserve pit fluids and produced waters is prohibited.
- d. Unless authorized by National Pollutant Discharge Elimination System or state permits, disposal of wastewater into freshwater bodies is prohibited.

### **3. Alaska Department of Fish and Game**

- a. Under the provisions of Title 16 of the Alaska Statutes, the measures listed below may be imposed by ADF&G below the ordinary high water mark to protect designated anadromous water bodies and to ensure the free and efficient passage of fish in all fish-bearing water bodies. Specific information on the location of anadromous water bodies in and near the area may be obtained from ADF&G.
  - i. Alteration of riverbanks may be prohibited.
  - ii. The operation of equipment, excluding boats, in open water areas of rivers and streams may be prohibited.
  - iii. Bridges or non-bottom founded structures may be required for crossing fish spawning and important rearing habitats.
  - iv. Culverts or other stream crossing structures must be designed, installed, and maintained to provide free and efficient passage of fish.

- b. Removal of water from fish-bearing water bodies is subject to the regulations for the Appropriation and Use of Water (11 AAC 93.035-.147) and Fish and Games statutes AS 16.05.841 and AS 16.05.871.
- c. The director, in consultation with ADF&G, may impose seasonal restrictions on activities located in, or requiring travel through or overflight of, important caribou or other large ungulate calving and wintering areas during the plan of operations approval stage.
- d. The director, in consultation with ADF&G, may impose seasonal restrictions on activities located in and adjacent to important waterfowl and shorebird habitat during the plan of operations approval stage.
- e. To minimize impacts on Dolly Varden (arctic char) overwintering areas, permanent, staffed facilities must be sited to the extent practicable outside identified Dolly Varden overwintering areas.
- f. Lessees are encouraged in planning and design activities to consider the recommendations of oil field design and operations in the final report to the Alaska Caribou Steering Committee: Cronin, M. et al., 1994. "Mitigation of the Effects of Oil Field Development and Transportation Corridors on Caribou." LGL Alaska Research Associates, Inc., July.
- g. Lessees must comply with the provision of Appendix B of the "Yellow-billed Loon Conservation Agreement," dated July 31, 2006, between ADF&G, ADNR, USFWS, Bureau of Land Management, and the National Park Service.

#### **4. Alaska Department of Labor and Workforce Development**

- a. The Lessee shall facilitate Alaska resident hire monitoring by reporting project wages on a quarterly basis for each individual employed by the Lessee in the lease area, through electronic unemployment insurance reporting, and by requiring the same of the lessee's contractors and subcontractors.

#### **5. U.S. Army Corps of Engineers**

- a. A U.S. Army Corps of Engineers permit is required when work is anticipated on, in, or affects navigable waters or involves wetland-related dredge or fill activities. A Section 10 permit is required for construction, excavation, or deposition of material in, over, or under navigable waters, or for any work which would affect the course, location, condition, or capacity of navigable waters, or for any work which would affect the course, location, condition, of capacity of navigable waters (33 USC 403). Oil and gas activities requiring this type of permit include, but are not limited to, exploration drilling from a jackup drill rig, installation of a production platform, or construction of a causeway. A Section 404 permit (33 USC 404) authorizes the discharge of

dredged and fill material into waters and wetlands of the United States. The process and concerns are similar for both permits and, at times, both may be required.

## 6. Pipeline and Hazardous Materials Safety Administration

- a. Lessees are advised that any pipeline used for transportation of gas or hazardous liquids may be subject to Federal Pipeline Safety Laws (49 USC 60101 et seq.) and regulations (49 CFR 190-195) under the jurisdiction of the U.S. DOT – Pipeline and Hazardous Materials Safety Administration.

## 7. U.S. Fish and Wildlife Service and National Marine Fisheries Service

- a. Lessees are advised that the Endangered Species Act of 1973 (ESA), as amended (16 USC 1531-1544) protects endangered and threatened species and candidate species for listing that may occur in the lease sale area. Lessees shall comply with the Recommended Protection Measures developed by the USFWS to ensure adequate protection for all endangered, threatened and candidate species. The following endangered or threatened species occur in or adjacent to the lease sale area:

Common Name	ESA Status
Bowhead whale	Endangered
Spectacled eider	Threatened
Steller’s eider (Alaska breeding population)	Threatened
Polar bear	Threatened

- b. Lessees are advised of the need to comply with the Migratory Bird Treaty Act (MBTA; 16 USC 703) which is administered by the USFWS. Under the MBTA, it is illegal to "take" migratory birds, their eggs, feathers or nests. "Take" is defined (50 CFR 10.12) to include "pursuing, hunting, shooting, wounding, killing, trapping, capturing, or collecting." The MBTA does not distinguish between "intentional" and "unintentional" take. Migratory birds include songbirds, waterfowl, shorebirds, and raptors. In Alaska, all native birds except grouse and ptarmigan (which are protected by the State of Alaska) are protected under the MBTA.

In order to ensure compliance with the MBTA, it is recommended that lessees survey the project area before construction, vegetation clearing, excavation, discharging fill or other activities which create disturbance, and confirm there are no active migratory bird nests. It is recommended lessees contact the USFWS for assistance and guidance on survey needs, and other compliance issues under the MBTA. While the USFWS can recommend methods (such as surveys and timing windows) to avoid unintentional take, responsibility for compliance with the MBTA rests with lessees.

- c. Lessees are advised that they must comply with the provisions of the Marine Mammal Protection Act of 1972, as amended (16 USC 1361-1407). USFWS shares authority for marine mammals with the NMFS.
- d. Peregrine falcon nesting sites are known to occur in the sale area. Lessees are advised that disturbing a peregrine falcon nest violates federal law. Lessees are required to comply with the federal resource recovery plan for the arctic peregrine falcon.



- e. Lessee are advised that the Magnuson-Stevens Fishery Conservation and Management Act requires identification of Essential Fish Habitat (EFH) for all species managed under a federal Fisheries Management Plan. Subsequent exploration and/or development activities associated with the lease sale may be subject to consultation under EFH. EFH information, consultation, guidance, and species life history information are available on the NMFS website at <http://www.fakr.noaa.gov/habitat>.

## 8. North Slope Borough

- a. Lessees are advised that the NSB Assembly has adopted a comprehensive plan and land management regulations under Title 29 of the Alaska Statutes (AS 29.40.020-040). The NSB regulations require borough approval for all proposed uses, development, and master plans. The former NSBCMP policies are included as part of the NSB zoning regulations (Title 19) and all NSB permit approvals will require the proposal to be substantially consistent with these policies.
- b. Lessees are advised that restricting access to and use of fish camps and other subsistence use areas defined in the NSB Traditional Land Use Inventory, may violate the former NSBCMP and NSBMC subsistence harvest protection and land use regulations. Lessees are advised to consult with the NSB Planning Department and local communities during planning of operations.
- c. Lessees are encouraged to bring one or more residents of communities in the area of operations into their planning process. Local communities have a unique understanding of their environment and community activities. Involving local community residents in the earliest stages of the planning process for oil and gas activities can be beneficial to the industry and to the community. Community representation on management teams developing plans of operation, oil spill contingency plans, and other permit applications can help communities understand permitting obligations and help industry to understand community values and expectations for oil and gas operations being conducted in and around their area.
- d. In order to protect species that are sensitive to noise or movement, horizontal and vertical buffers will be required, consistent with aircraft, vehicle, and vessel operations regulated by NSB Code B19.70.050(I)(1), which codifies former NSBCMP policy 2.4.4.(a). Lessees are encouraged to apply the following provisions governing aircraft operations in and near the sale area:
  - i. From June 1 to August 31, aircraft overflights must avoid identified brant, white fronted goose, tundra swan, king eider, common eider, and yellow-billed loon nesting and brood rearing habitat, and from August 15 to September 15, the fall staging areas for geese, tundra swans, and shorebirds, by an altitude of 1,500 feet, or a lateral distance of 1 mile.
  - ii. To the extent practicable, all aircraft should maintain an altitude greater than 1,500 feet or a lateral distance of 1 mile, excluding takeoffs and landings, from caribou and muskoxen concentrations. A concentration means numbers of animals in excess of the general density of those animals found in the area.
  - iii. Human safety will take precedence over flight restrictions.
- e. Lessees are advised that certain areas are especially valuable for their concentrations of marine birds, marine mammals, fishes, or other biological resources; cultural resources; and for their importance to subsistence harvest activities. The following areas must be considered when developing plans of operation. Identified areas and time periods of special biological and cultural sensitivity include:

- i. the Boulder Patch in Stefansson Sound, year round;
  - ii. the Canning River Delta, January-December;
  - iii. the Colville River Delta, January-December;
  - iv. the Cross, Pole, Egg, and Thetis Islands, June-December;
  - v. the Flaxman Island waterfowl use and polar bear denning areas, including the Leffingwell Cabin national historic site located on Flaxman Island;
  - vi. the Jones Island Group (Pingok, Spy, and Leavitt Islands) and Pole Island are known polar bear denning sites, November-April; and
  - vii. the Sagavanirktok River delta, January-December.
  - viii. Howe Island supports a snow goose nesting colony, May-August.
- f. No lease facilities or operations may be located so as to block access to, or along, navigable and public waters as defined by AS 38.05.965(13) and (18).
- g. Subsistence whaling activities occur generally during the following periods:
- i. August to October: Kaktovik whalers use the area circumscribed from Anderson Point in Camden Bay to a point 30 km north of Barter Island to Humphrey Point east of Barter Island. Nuiqsut whalers use an area extending from a line northward of the Nechelik Channel of the Colville River to Flaxman Island, seaward of the Barrier Islands.
  - ii. September to October: Barrow hunters use the area circumscribed by a western boundary extending approximately 15 km off Cooper Island, with an eastern boundary on the east side of Dease Inlet. Occasional use may extend eastward as far as Cape Halkett.
- h. ADF&G reports that Howe Island may be one of only two significant known snow goose nesting colonies in the United States. (The other colony is in the Ikpikpuk River Delta; several small colonies occur in the area of Harrison Bay.) Lessees are advised that surface entry onto Howe Island will likely be prohibited.
- i. Lessees are advised that the NSB may, under its authorities, require the lessee to enter into a Conflict Avoidance Agreement with the AEWEC before applying for a NSB rezoning or development permit for the siting of permanent facilities in state waters. If the director permits permanent facility siting in state waters within 3 miles of Cross Island, subject to the subsistence harvest protection and whale harvest protection mitigation measures, the NSB has advised the state they will require a Conflict Avoidance Agreement.