

COLVILLE RIVER UNIT

APPROVAL OF THE SEVENTH EXPANSION OF THE UNIT AREA

Findings and Decision of the Director
of the Division of Oil and Gas
Under a Delegation of Authority
from the Commissioner of the State of Alaska
Department of Natural Resources

June 14, 2017

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I. INTRODUCTION AND DECISION SUMMARY

The Department of Natural Resources, Division of Oil and Gas (Division) received the Application for the Seventh Unit Expansion Colville River Unit (CRU) (Application) on February 28, 2017 from the CRU Operator, ConocoPhillips Alaska, Inc. (CPAI). The proposed and approved expansion of the CRU includes approximately 240 acres. Attachments 1 and 2 set out the approved Exhibits A and B.

The State of Alaska, Arctic Slope Regional Corporation (ASRC), and the United States Bureau of Land Management (BLM) jointly manage the CRU. The CRU contains State of Alaska oil and gas leases, ASRC oil and gas leases, jointly owned State of Alaska and ASRC oil and gas leases, and BLM oil and gas leases. The expansion area consists of a BLM oil and gas lease only.

“A unit must encompass the minimum area required to include all or part of one or more oil or gas reservoirs, or all or part of one or more potential hydrocarbon accumulations.” 11 AAC 83.356(a). CPAI has submitted confidential geological, geophysical, and engineering data which demonstrate the area approved for expansion includes all or part of an oil reservoir.

In parallel with DNR regulations, Article 12.1 of the Colville River Unit Agreement (CRUA) allows for expansion of the CRU to include any additional lands determined to overlie any reservoir, any part of which is within the Unit Area. CPAI has presented information to the Division that supports the determination that a reservoir within the unit boundaries extends into the expansion area. Therefore, the expansion meets the requirements of the CRUA.

The Division finds that the expansion of the CRU promotes conservation of all natural resources, promotes the prevention of economic and physical waste and provides for the protection of all parties of interest, including the State. AS 38.05.180(p); 11 AAC 83.303. I approve the Application, effective June 14, 2017.

II. APPLICATION AND LEASE SUMMARY

CPAI submitted the Application under the provisions of 11 AAC 83.356 and Section 12.1 of the CRUA on February 28, 2017, and simultaneously paid the \$500.00 unit expansion application filing fee, in accordance with 11 AAC 83.306 and 11 AAC 05.010(a)(10)(E), respectively. The Application included: Exhibit A (Attachment 1), a list legally describing the proposed expanded unit area, its leases, and ownership interests; Exhibit B (Attachment 2), a map of the proposed expanded unit; and Exhibit C, geological, geophysical, engineering, and well information directly supporting the application and planned exploration and development activities for the proposed expansion area. CPAI also submitted evidence of notice to proper parties by submitting the ballot agreement approving the Seventh Expansion signed by the working interest owners. The ratified unit agreement and unit operating agreement were already on file with the Division.

The Division published a public notice in the *Alaska Dispatch News* and *Arctic Sounder* on March 16, 2017, in compliance with 11 AAC 83.311. Copies of the Application and the public notice were provided to interested parties. DNR provided public notice to the North Slope

Borough, the City of Barrow, the City of Nuiqsut, the Kuukpik Corporation, the Arctic Slope Regional Corporation (ASRC), the Nuiqsut Postmaster, the Barrow Postmaster, the radio station KBRW in Barrow, as well as the Alaska Department of Environmental Conservation, the Alaska Department of Fish and Game, the Alaska Oil and Gas Conservation Commissioner, and the ADF&G Division of Habitat. The public notices invited interested parties and members of the public to submit comments by April 17, 2017. No comments were received.

The proposed expansion includes an additional 240 acres within one federal lease that is surrounded entirely by existing unit acreage. Attachments 1 and 2 of the Application contain the proposed expansion lease and a map of the proposed boundaries. CPAI holds 88% of the working interest and the remaining 22% working interest is held by Anadarko E&P Onshore LLC. The expansion area is entirely federal leases, however Article 12.1 of the CRUA requires approval of the Commissioner before any unit expansion.

III. DISCUSSION OF DECISION CRITERIA

A unit may be expanded to conserve the natural resources of all or a part of an oil or gas pool, field, or like area when determined and certified to be necessary or advisable in the public interest. AS 38.05.180(p). Conservation of the natural resources of all or part of an oil or gas pool, field, or like area means “maximizing the efficient recovery of oil and gas and minimizing the adverse impacts on the surface and other resources.” 11 AAC 83.395(1).

The DNR Commissioner (Commissioner) reviews applications related to units under 11 AAC 83.303–83.395. By memorandum dated September 30, 1999, the Commissioner approved a revision of Department Order 003 and delegated this authority to the Division Director.

The Commissioner will approve a proposed expanded unit upon a finding that it will (1) promote conservation of all natural resources, including all or part of an oil or gas pool, field, or like area; (2) promote the prevention of economic and physical waste; and (3) provide for the protection of all parties of interest including the state. 11 AAC 83.303(a).

In evaluating these three criteria, the Commissioner will consider (1) the environmental costs and benefits of unitized exploration or development; (2) the geological and engineering characteristics of the potential hydrocarbon accumulation or reservoir proposed for unitization; (3) prior exploration activities in the proposed unit area; (4) the applicant’s plans for exploration or development of the unit area; (5) the economic costs and benefits to the state; and (6) any other relevant factors, including measures to mitigate impacts identified above, the commissioner determines necessary or advisable to protect the public interest. 11 AAC 83.303(b).

A discussion of the subsection (b) criteria, as they apply to the Application, is set out below, followed by a discussion of the subsection (a) criteria.

Article 12.1 of the CRUA describes the requirements for unit expansion. “After notice to the Working Interest Owners, and with the approval of the President and the Commissioner, (and the AO if any Federal Leases are directly implicated) the Unit Operator, at its own election may, or

at the direction of the President, Commissioner (and the AO if any Federal Leases are directly implicated), shall, expand the Unit Area to include any additional lands determined to overlie any Reservoir, any part of which is within the Unit Area, or to include any additional lands regarded as reasonably necessary for the purposes of this Agreement. Any expansion shall not be effective until approved by the President and Commissioner (and the AO if any Federal Leases are directly implicated). The State, ASRC, and the United States will not unreasonably withhold any approval required by this Article.”

A. Decision Criteria considered under 11 AAC 83.303(b)

1. Environmental Costs and Benefits

The expansion area is habitat for various mammals, waterfowl, and fish. Area residents may use this area for subsistence hunting and fishing. Oil and gas activity in the proposed unit area may affect some wildlife habitat and some subsistence activity. DNR develops lease stipulations through the lease sale process to mitigate the potential environmental impacts from oil and gas activity.

DNR also considers environmental issues during the lease sale process and the unit Plan of Operations approval process. Alaska statutes require DNR to give public notice and issue a written finding before disposal of the State’s oil and gas resources. AS 38.05.035(e); AS 38.05.945; 11 AAC 82.415. In the written best interest finding, the Commissioner may impose additional conditions or limitations beyond those imposed by law. AS 38.05.035(e).

Approval of the CRU expansion has no direct environmental impact. This decision is an administrative action and does not authorize any on-the-ground activity. The unit expansion does not entail any environmental costs in addition to those that may occur when permits to conduct lease-by-lease exploration or development are issued. The Unit Operator must obtain approval of a plan of operations from the State and permits from various agencies on State leases before drilling a well or wells or initiating development activities to produce reservoirs within the unit area. 11 AAC 83.346. Potential effects on the environment are analyzed when permits to conduct exploration or development in the unit area are reviewed. CPAI is operating under an approved plan of operations and plan of development.

2. Geological and Engineering Characteristics and Exploration History

Introduction

The seventh expansion acreage lies approximately one mile west of the current Fiord Nechelik Participating Area (PA) in a region that CPAI refers to as their Fiord West development area. The expansion will integrate BLM land into the CRU unit. Seven exploration wells surround the expansion acreage: Nechelik 1, Temptation 1, Temptation 1A, Nigliq 1, Nigliq 1A, Iapetus 2, and Char 1.

Each exploration well encountered either Lower Cretaceous Kuparuk River Formation, Upper Jurassic Nechelik sandstone, or both. The Kuparuk River Formation is represented by

transgressive Kuparuk C sandstone deposited on the Lower Cretaceous Unconformity (LCU). This unit varies across the Fiord Nechelik and Fiord Kuparuk PAs from a transgressive lag about one foot thick to a substantial reservoir sandstone with a gross thickness up to 21 feet. Kuparuk A sandstone is not present in this region. The Upper Jurassic Nechelik sandstone has a coarsening upward trend that varies in gross sand thickness from approximately 90 to 180 feet. In this decision, gross sandstone is defined as having gamma ray values less than 75 API units.

Exploration and Development History

In 1982, Sohio drilled the Nechelik 1 well. Conventional core was collected in the Nechelik sandstone interval (7,112–7,232' measured depth). No tests were completed in the well.

In 1996, ARCO drilled Temptation 1 and Temptation 1A. Temptation 1 encountered 9 feet of gross Kuparuk C sandstone and Temptation 1A encountered 6 feet of gross Kuparuk C sandstone. Both Temptation wells encountered the Nechelik sandstone interval. No cores or tests were completed.

In 2001, Phillips drilled Nigliq 1 and Nigliq 1A. Three feet of gross Kuparuk C sandstone was found in Nigliq 1, and 6 feet of gross Kuparuk C sandstone was found in Nigliq 1A. The Nechelik sandstone interval was present in both wells. CPAI obtained 180' of conventional core that cut the Nechelik sandstone (7,244–7,425' measured depth) in Nigliq 1. Nechelik core porosities ranged from 9 to 22 percent, and core permeabilities ranged from 0.03 to 86 millidarcys (mD). Oil saturations ranged from 7 to 52 percent.

In 2005, CPAI drilled Iapetus 2. Iapetus 2 encountered six feet of gross Kuparuk C sandstone as well as the Nechelik sandstone interval. Sidewall core was taken in the Kuparuk C and the Nechelik sandstone. Kuparuk C sidewall core porosities ranged from 6 to 21 percent, and core permeabilities ranged from 0.02 to 83 mD. Oil saturations ranged from 16 to 24 percent. Nechelik sandstone sidewall core porosities ranged from 6 to 13 percent. Core permeabilities ranged from 0.07 to 5 mD. Oil saturations ranged from 12 to 25 percent.

In 2008, CPAI drilled the Char 1 well. Twelve feet of gross Kuparuk C sandstone was encountered as well as the Nechelik sandstone interval. The Kuparuk C sandstone was perforated from 7,252' to 7,264' measured depth and then flow tested, producing 23,190 barrels of oil over a seven-day period. Oil rate averaged approximately 3,620 barrels of oil per day (BOPD) with an API gravity of 36–37 degrees. Gas rates averaged approximately 1.78 thousand standard cubic feet per day and the gas oil ratio was approximately 475 standard cubic feet per stock tank barrel. Water production was negligible over the test period. Sixty feet of conventional core was taken in the Nechelik sandstone (7,450–7,510' measured depth). The Nechelik sandstone was perforated from 7,480' to 7,500' measured depth, hydraulically fractured, and then flow tested. The Nechelik sandstone was tested for a total of 5 days (3 separate periods) to clean up the well and evaluate formation production characteristics. The well was artificially lifted with nitrogen during each cleanup and test period, therefore gas rates were not reliable. Produced water was characterized as completion and fracture fluids. A total of 1,264 barrels of 28–31 °API oil was

produced during the test and cleanup periods. Average oil rate was 300 BOPD during the final test period.

In 2006, the Division approved the formation of the Fiord Nechelik PA and sustained Fiord Nechelik production commenced. Since then ten injection wells and thirteen production wells have been completed in the Fiord Nechelik PA. Well data from the Fiord Nechelik PA and the seven exploration wells described in this decision indicate that the Nechelik sandstone trend continues west toward the seventh expansion area. As of January 1, 2017, the Fiord Nechelik reservoir has produced approximately 13.4 million barrels of oil.

Geological Characteristics of the Reservoirs

Two reservoirs are expected to be present within the proposed expansion area: the Lower Cretaceous Kuparuk C sandstone and the Upper Jurassic Nechelik sandstone.

The Lower Cretaceous Kuparuk C sandstone is a transgressive unit deposited on the LCU in paleotopographic lows. In the northern portion of the CRU, the LCU cuts deeper into the ancestral Colville High and the Kuparuk C sandstone sits directly on top of the Nechelik sandstone. To the south, the Kuparuk C and Nechelik sandstones are separated by a thickening section of upper Jurassic Kingak Formation.

The Kuparuk C sandstone consists of fine to medium grained, quartz- rich sandstone with variable quantities of glauconite and silt with little to no clay matrix. Porosities and permeabilities tend to be high except where siderite cemented.

The Upper Jurassic Nechelik sandstone is a coarsening upward, progradational shoreface sequence with depositional environments ranging from marine shelf at the base to middle shoreface near the top. The Nechelik sandstone consists of very fine to fine grained, quartz rich sandstone with an increase in clay matrix towards the base of the interval.

Conclusion

The seventh expansion of the Colville River Unit proposed by CPAI is sufficiently supported by technical data submitted by the operator. Data submitted to the Division include maps, cross-sections, a gross Kuparuk C sandstone isochore map, a net pay Nechelik sandstone map, and an annotated seismic line through the BLM land proposed for inclusion in the unit.

Review of the geological, geophysical, and engineering data has allowed the Division to reasonably establish the potential for the Kuparuk C and Nechelik reservoirs in the requested expansion acreage. The Division also acknowledges CPAI's continued effort to advance the construction of an extended reach drilling rig that will allow for the development of the expansion acreage. As such, these two conditions provide the Division the technical basis to support approval of the requested expansion.

3. Plans of Development

CPAI plans to drill wells through or near the expansion area from the CD2 drilling pad using an extended reach drilling rig currently under construction. Delivery of the new rig is expected prior to the close of the 2020 ice road season.

4. The Economic Costs and Benefits to the State and Other Relevant Factors

The expanded CRU will provide economic benefits to the State through tax payments on production and increased Trans Alaska Pipeline System throughput. Unitized development conducted under the CRU Agreement provides for development of all the unitized leases as a single lease, rather than development conducted on a lease-by-lease basis. Unitized development maximizes oil and gas recovery, promotes conservation, prevents waste, and protects all of the parties of interest. Although the expansion area is entirely federal leases, the CRUA requires approval of the Commissioner before any unit expansion.

B. Decision Criteria considered under 11 AAC 83.303(a)

1. Promote the Conservation of All Natural Resources

A unit may be formed under AS 38.05.180(p) “[t]o conserve the natural resources of all or a part of an oil or gas pool, field, or like area.” Conservation of the natural resources of all or part of an oil or gas pool, field or like area means “maximizing the efficient recovery of oil and gas and minimizing the adverse impacts on the surface and other resources.” 11 AAC 83.395(9). The unitization of oil and gas reservoirs or accumulations and the formation and expansion of unit areas to develop hydrocarbon-bearing reservoirs or accumulations are well-accepted means of hydrocarbon conservation. Unitization, with development occurring under the terms of a unit agreement, can promote efficient evaluation and development of the State’s resources, and minimize impacts to the area’s cultural, biological, and environmental resources. Expansion of an existing unit, with development occurring under the terms of a unit agreement, promotes efficient evaluation and development of the State’s resources, and minimizes impacts to the area’s cultural, biological, and environmental resources. Wells producing this area will be drilled from existing gravel pads and production will be processed through existing facilities. If the area was not unitized development would require additional surface impacts.

2. The Prevention of Economic and Physical Waste

Unitization, as opposed to activity on a lease-by-lease basis, may prevent economic and physical waste. Economic waste is often referred to as the drilling of wells in excess of the number necessary for the efficient recovery or delineation of the oil and gas in place. Physical waste, among other things, includes the inefficient, excessive, or improper use of, or unnecessary dissipation of, reservoir energy.

Unitization may also prevent economic and physical waste by eliminating redundant expenditures for a given level of production, or by avoiding loss of ultimate recovery with the adoption of a unified reservoir management plan. Annual approval of the CRU development

activities as described in the future plans of development must also provide for the prevention of economic and physical waste. Using the CRU infrastructure and facilities eliminates the need to construct stand-alone facilities. The limited size of the resource in the expansion area combined with Alaska Oil and Gas Conservation Commission well spacing requirements make it unlikely the expansion area could not be developed unless coordinated with the existing CRU.

3. The Protection of All Parties of Interest, Including the State

The people of Alaska have an interest in the development of the State's oil and gas resources to maximize the economic and physical recovery of the resources, AS 38.05.180(a). Approval of the expansion under future annually approved plans of development will provide for continued review and approval of CPAI plans to develop the CRU in a manner which will maximize economic and physical recovery. Combining interests and operating under the terms of the CRUA and CRU Operating Agreement assures an equitable allocation of costs and revenues commensurate with the resources. Conversely, denying the expansion would leave a small amount of acreage that is physically surrounded by the unit without the benefits of oversight and joint operations provided by the unit agreement.

The CRU expansion protects the economic interests of the WIOs, the State, ASRC, and BLM. The expansion promotes the State's economic interests because hydrocarbon recovery will be maximized and additional production-based revenue will be derived from the increased production. Diligent exploration and development under a single approved unit plan without the complications of competing leasehold interests promotes the State's interest. Operating under the CRUA provides for accurate reporting and record keeping, State approval of plans of exploration and development and operating procedures, in-kind taking, and emergency storage of oil and gas, all of which will further the State's interest.

CPAI requests that the Application acreage be subject to contraction from the CRU no sooner than July 1, 2022. Article 12.4 and 12.6 of the CRUA addresses the Commissioners authority to contract the CRUA from time to time after 10 years have passed since first production. DNR cannot modify or contract away its regulatory discretion. *Exxon Corp. v. State*, 40 P.3d 786, 796 (Alaska 2001). Accordingly, Conoco's request is denied. Conoco will, however, get notice and an opportunity to be heard before the Commissioner exercises discretion to contract the unit. 11 AAC 83.356(e). Decision Criteria considered under Article 12.1 of the CRUA

As described in Article 12.1 of the CRUA the operator may, at its own election, expand the unit area to include any additional lands determined to overlie any reservoir, any part of which is within the unit area. Article 12.1 later states no expansion shall be effective until approved by the Commissioner, and the State will not unreasonably withhold any approval required by this article.

IV. FINDINGS AND DECISION

A. The Conservation of All Natural Resources

1. Expansion of the CRU will provide for continued development of the expansion area under the CRUA and will maximize the efficient recovery of oil and gas and minimize the adverse impacts on the surface and other resources, including hydrocarbons, gravel, sand, water, wetlands, and valuable habitat.
2. The unitized development and operation of the leases in this expansion will reduce the amount of land and fish and wildlife habitat that would otherwise be disrupted by individual lease development. This reduction in environmental impacts and preservation of subsistence access is in the public interest.
3. There is potential for environmental impacts associated with development. All unit development must proceed according to an approved plan of development. Additionally, before undertaking any specific operations, the Unit Operator must submit a unit plan of operations to the Division and other appropriate state and local agencies for review and approval. The lessees may not commence any drilling or development operations until all agencies have granted the required permits. DNR may condition its approval of a unit plan of operations and other permits on compliance with mitigation measures in the modified leases, as well as additional conditions if necessary or appropriate. Compliance with mitigation measures will minimize, reduce or completely avoid adverse environmental impacts.

B. The Prevention of Economic and Physical Waste

1. CPAI submitted geological, geophysical and engineering data to the Division in support of the Application. Division technical staff determined that the expanded CRU area encompasses all or part of one or more oil and gas reservoir(s) or potential hydrocarbon accumulation(s).
2. The available geological, geophysical and engineering data justify including the proposed lands in the unit, as described in Section III, A.2. of this decision.
3. The production of hydrocarbons through the existing production and processing facilities reduces the environmental impact of the additional production. Using existing facilities will avoid unnecessary duplication of development efforts on and beneath the surface.

C. The Protection of All Parties in Interest, Including the State

1. The unit expansion as approved protects all parties' interests including the people of Alaska who have an interest in the development of the State's oil and gas resources to maximize the economic and physical recovery of the resources.

2. The economic, geological, geophysical, and engineering data that CPAI provided reasonably justify the inclusion of the CRU expansion acreage under the terms of the applicable regulations governing formation, expansion, and operation of oil and gas units and participating areas (11 AAC 83.301–83.395.)
3. CPAI provided evidence of reasonable effort to obtain joinder of any proper party to the Agreement.
4. CPAI holds sufficient interest in the unit area to give reasonably effective control of operations.
5. The unit expansion meets the requirements of 11 AAC 83.303.
6. The Division complied with the public notice requirements of 11 AAC 83.311.
7. The unit expansion will not diminish access to public and navigable waters beyond those limitations (if any) imposed by law or already contained in the oil and gas leases covered by this decision.
8. The CRU Agreement provides for additional expansions and contractions of the unit area in the future, as warranted by data obtained by exploration or otherwise. The CRU Agreement thereby protects the public interest, the rights of the parties, and the correlative rights of adjacent landowners.
9. The approved expanded unit is effective June 14, 2017.

For the reasons discussed in this Findings and Decision, I hereby approve the CRU Seventh Unit Expansion.

A person affected by this decision may appeal it, in accordance with 11 AAC 02. Any appeal must be received within 20 calendar days after the date of “issuance” of this decision, as defined in 11 AAC 02.040(c) and (d) and may be mailed or delivered to Andrew T. Mack, Commissioner, Department of Natural Resources, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska 99501; faxed to 1-907-269-8918, or sent by electronic mail to dnr.appeals@alaska.gov. This decision takes effect immediately. An eligible person must first appeal this decision in accordance with 11 AAC 02 before appealing this decision to Superior Court. A copy of 11 AAC 02 may be obtained from any regional information office of the Department of Natural Resources.

If you have any questions regarding this decision, contact Kevin Pike with the Division at 907-269-8451, or by email at kevin.pike@alaska.gov

Sincerely,



Chantal Walsh, Director
Division of Oil and Gas

cc: Teresa Imm, Arctic Slope Regional Corporation
Wayne Svejnoha, Bureau of Land Management

V. Attachments

1. Colville River Unit Proposed Exhibit A: Description of Lands within the Expanded Unit
2. Colville River Unit Proposed Exhibit B: Map of Expanded Unit Area

1. Colville River Unit Approved Exhibit A

Description of Lands within the Proposed Expanded Unit

DEPARTMENT OF
NATURAL RESOURCES

FEB 28 2017

Exhibit A
Attached to and made a part
of the Colville River Unit Agreement

COMMISSIONER'S OFFICE
ANCHORAGE

Tr. No.	ADL No./ AK No.	Description	Acres	Depth Restrictions	Original				Net Royalty*	ORRI Owners	Net	Tract Owners	Working
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.			ORRI (%)		Interest (%)
1	364472	T13N,R5E-U.M.		None	12.5	30	State	100	12.5	CPAI	1.200000	CPAI	78.000000
	931986	Sec. 9, Protracted, All	640.00									APC	22.000000
		Sec. 10, Protracted, All	640.00										100.000000
		Sec. 15, Protracted, All	640.00										
		Sec. 16, Protracted, All	640.00										
		Sec. 21, Protracted, All	640.00										
		Sec. 22, Protracted, All	640.00										
		Sec. 28, Protracted, All	640.00										
	TOTAL		4,480.00										
2	364470	T13N,R5E-U.M.		None	12.5	30	State	100	12.5	Enea Tekna Inv.	0.666600	CPAI	78.000000
	931974	Sec. 17, Protracted, All	640.00							W.G. Stroecker	0.666600	APC	22.000000
		Sec. 18, Protracted, All	631.00							D.K. Nerland	0.023400		100.000000
		Sec. 19, Protracted, All	633.00							R.E. Wagner	0.643400		
		Sec. 20, Protracted, All	640.00								2.000000		
		Sec. 30, Protracted, All	636.00										
	TOTAL		3,180.00										
3	364471	T13N,R5E-U.M.		None	12.5	30	State	100	12.5	Enea Tekna Inv.	0.666600	CPAI	78.000000
	931976	Sec. 26, Protracted, All	640.00							W.G. Stroecker	0.666600	APC	22.000000
		Sec. 27, Protracted, All	640.00							D.K. Nerland	0.023400		100.000000
		Sec. 29, Protracted, All	640.00							R. E. Wagner	0.643400		
		Sec. 31, Protracted, All	639.00								2.000000		
		Sec. 32, Protracted, All	640.00										
		Sec. 33, Protracted, All	640.00										
		Sec. 34, Protracted, All	640.00										
		Sec. 35, Protracted, All	640.00										
	Sec. 36, Protracted, All	640.00											
	TOTAL		5,759.00										

Exhibit A
Attached to and made a part
of the Colville River Unit Agreement

Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
4	372105	T12N,R5E-U.M.		Above 10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
	932002	Sec. 5	640.00							XH, LLC	0.345030	APC	22.000000
		Sec. 6	577.00							RW Res	0.226800		100.000000
		TOTAL	1,217.00							CPAI	1.701900		
											<u>2.713920</u>		
				Below 10,350'	12.5		State	100	12.5			CPAI	66.790810
												APC	16.342170
												Petro-Hunt	7.336490
												XH, LLC	5.750530
												RW Res	3.780000
													<u>100.000000</u>
5	372104	T12N,R5E-U.M.		Above 10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
	932000	Sec. 3, All	640.00							XH, LLC	0.345030	APC	22.000000
		Sec. 4, All	640.00							RW Res	0.226800		100.000000
		TOTAL	1,280.00							CPAI	1.701900		
											<u>2.713920</u>		
				Below 10,350'	12.5		State	100	12.5			CPAI	66.790810
												APC	16.342170
												Petro-Hunt	7.336490
												XH, LLC	5.750530
												RW Res	3.780000
													<u>100.000000</u>

Exhibit A
Attached to and made a part
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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)			
					Royalty (%)	NPSL (%)	Royalty Owners								
6	372103 931998	T12N,R5E-U.M.		Above 10,350'	12.5		State	100	12.5	CPAI*	1.200000	CPAI	78.000000		
		Sec. 1, Unsurveyed, All	640.00							CPAI**	1.200000	APC	22.000000		
		Sec. 2, Unsurveyed, All	640.00							Petro-Hunt	0.257200		100.000000		
		TOTAL	1,280.00							RW Res	0.226800				
										XH, LLC	0.201600				
										CPAI	0.874400				
											<u>3.960000</u>				
						Below 10,350'	12.5		State	100	12.5			CPAI	71.471623
														APC	17.101710
														Petro-Hunt	4.286667
												RW Res	3.780000		
												XH, LLC	3.360000		
													<u>100.000000</u>		
7	372103 931998	T12N, R5E-U.M.		Above 10,350'	12.5		State	100	12.5	CPAI*	1.200000	CPAI	78.000000		
		Sec. 11, All	640.00							CPAI**	1.200000	APC	22.000000		
		Sec. 12, All	640.00							Petro-Hunt	0.257200		100.000000		
		TOTAL	1,280.00							RW Res	0.226800				
										XH, LLC	0.201600				
										Chevron	1.703000				
										CPAI	0.874400				
											<u>5.663000</u>				
						Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	71.471623
														APC	17.101710
												Petro-Hunt	4.286667		
												RW Res	3.780000		
												XH, LLC	3.360000		
													<u>100.000000</u>		

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
8	372104 932000	T12N,R5E-U.M.		Above 10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000	
		Sec. 9, All	640.00							XH, LLC	0.345030	APC	22.000000	
	Sec. 10, All	640.00							RW Res	0.226800		100.000000		
	TOTAL	1,280.00							Chevron	1.703000				
										CPAI	1.701900			
											<u>4.416920</u>			
					Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	66.790810
													APC	16.342170
													Petro-Hunt	7.336490
													XH, LLC	5.750530
												RW Res	3.780000	
													<u>100.000000</u>	
9	372105 932002	T12N, R5E-U.M.		Above 10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000	
		Sec. 7, All	580.00							XH, LLC	0.345030	APC	22.000000	
	Sec. 8, All	640.00							RW Res	0.226800		100.000000		
	TOTAL	1,220.00							Chevron	1.703000				
										CPAI	1.701900			
											<u>4.416920</u>			
					Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	66.790810
													APC	16.342170
													Petro-Hunt	7.336490
													XH, LLC	5.750530
												RW Res	3.780000	
													<u>100.000000</u>	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
10	25538	T12N,R5E-U.M.		None	12.5		State	100	12.5	Chevron	1.703000	CPAI	78.000000	
	932100	Sec. 17, All	640.00									APC	22.000000	
		Sec. 18, All	583.00											100.000000
		Sec. 19, All	585.00											
		Sec. 20, All	640.00											
		TOTAL	2,448.00											
11	372107	T12N,R5E-U.M.		Above 8,500'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000	
	932006	Sec. 21, SE1/4SE1/4, W1/2SE1/4, SW1/4	280.00							XH, LLC	0.345030	APC	22.000000	
			RW Res								0.226800		100.000000	
			Sec. 22, SW1/4SE1/4, S1/2SW1/4	120.00						Chevron	1.703000			
			TOTAL	400.00						CPAI	0.880380			
											3.595400			
					8,500'-10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
											XH, LLC	0.345030	APC	22.000000
											RW Res	0.226800		100.000000
											Chevron	1.703000		
											CPAI	1.701900		
												4.416920		
				Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	66.790810	
												APC	16.342170	
												Petro-Hunt	7.336490	
												XH, LLC	5.750530	
												RW Res	3.780000	
													100.000000	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
11A	391577 341402	T12N,R5E-U.M.	640.00	Above 8,500'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000	
		Sec. 15, All		XH, LLC						0.345030	APC	22.000000		
	Sec. 16, All	RW Res	0.226800		100.000000									
	TOTAL	1,280.00												
					8,500'-10,350'	12.5		State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
											XH, LLC	0.345030	APC	22.000000
											RW Res	0.226800		100.000000
											Chevron	1.703000		
											CPAI	1.701900		
												4.416920		
					Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	66.790810
												APC	16.342170	
												Petro-Hunt	7.336490	
												XH, LLC	5.750530	
												RW Res	3.780000	
													100.000000	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
12	372106 932004	T12N,R5E-U.M.		Above 8,500'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000	
		Sec. 13, All	640.00							Petro-Hunt	0.324590	APC	22.000000	
		Sec. 14, All	640.00							XH, LLC	0.254430		100.000000	
		Sec. 23, All	640.00							RW Res	0.226800			
	TOTAL	1,920.00							Chevron	1.703000				
										CPAI	0.649180			
											<u>6.188000</u>			
					8,500'-10,350'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000
										Petro-Hunt	0.324590	APC	22.000000	
										XH, LLC	0.254430		100.000000	
										RW Res	0.226800			
										Chevron	1.703000			
									CPAI	1.255180				
										<u>5.279000</u>				
				Below 10,350'	12.5		State	100	12.5	Chevron	1.703000			
											CPAI	68.928524		
											APC	17.641213		
											Petro-Hunt	5.409868		
											XH, LLC	4.240395		
											RW Res	3.780000		
												<u>100.000000</u>		
There is no Tract 13														
14	25530 932098	T12N,R4E-U.M.		None	12.5		State	51.97	6.49625	Chevron	1.703000	CPAI	78.000000	
		Sec. 24, All	640.00				ASRC	48.03	5.00375	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						<u>11.5</u>		<u>2.703000</u>		<u>100.000000</u>	
15	25529 932096	T12N,R4E-U.M.		None	12.5		State	50.05	6.25625	Chevron	1.703000	CPAI	78.000000	
		Sec. 23, All	640.00				ASRC	49.95	5.24375	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						<u>11.5</u>		<u>2.703000</u>		<u>100.000000</u>	

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					Royalty (%)	NPSL (%)	Royalty Owners						
16	25529	T12N,R4E-U.M.		None	12.5		State	47.37	5.92125	Chevron	1.703000	CPAI	78.000000
	932096	Sec. 22 excl. NPRA	346.19				ASRC	52.63	5.57875	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	346.19						11.5		2.703000		100.000000
17	387211	T12N,R4E-U.M.		None	16.66667		State	47.37	7.895002	Kuukpik Corp.	1.666667	CPAI	78.000000
	932197	Sec. 22, All, within NPRA, excl. USS 9502 Lot 2	257.86				ASRC	52.63	7.105001			APC	22.000000
		TOTAL	257.86						15.000003				100.000000
18-A	387211	T12N,R4E-U.M.		None	16.66667		State	26.23	4.371668	Kuukpik Corp.	1.666667	CPAI	78.000000
	932197	Sec. 21, All, within NPRA	229.92				ASRC	73.77	10.628335			APC	22.000000
		TOTAL	229.92						15.000003				100.000000
18-B	387211	T12N,R4E-U.M.		None	16.66667		State	26.23	4.37167	Kuukpik Corp.	1.000000	CPAI	78.000000
	932197	Sec. 21, tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43	90.00				ASRC	73.77	11.295			APC	22.000000
		TOTAL	90.00						15.66667				100.000000
19	380095	T12N,R4E-U.M.		None	16.667		State	26.23	4.37175	Kuukpik Corp.	1.000000	CPAI	78.000000
	932056	Sec. 21, All, excl. tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43 and NPRA	320.08				ASRC	73.77	11.29525			APC	22.000000
		TOTAL	320.08						15.667				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
20	380095	T12N,R4E-U.M.		None	16.667		State	87.45	14.57529	Kuukpik Corp.	1.000000	CPAI	78.000000
	932056	Sec. 20, All, excl. tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43	178.00				ASRC	12.55	1.09171			APC	22.000000
									<u>15.667</u>				<u>100.000000</u>
			TOTAL	178.00									
21	387211	T12N,R4E-U.M.		None	16.66667		State	87.45	14.575	Kuukpik Corp.	1.000000	CPAI	78.000000
	932197	Sec. 20, All, tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43	462.00				ASRC	12.55	1.09167			APC	22.000000
									<u>15.66667</u>				<u>100.000000</u>
			TOTAL	462.00									
22	ASRC NPRA 1	T12N,R3E-U.M.		None	12.5		ASRC	100	11.25	Kuukpik Corp.	1.250000	CPAI	78.000000
	932126	Sec. 25	640.00									AEP	22.000000
		Sec. 26	640.00										<u>100.000000</u>
		Sec. 27	640.00										
		Sec. 34	640.00										
		Sec. 35	640.00										
		Sec. 36	640.00										
		TOTAL	3,840.00										

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
23	ASRC NPRA 2 932128	T12N,R4E-U.M.		None	16.667		ASRC	100	15	Kuukpik Corp.	1.666700	CPAI	78.000000	
		Sec. 28	565.98									AEP	22.000000	
		Sec. 29	402.79										100.000000	
		Sec. 30	321.28											
		Sec. 31	541.00											
		Sec. 32	534.95											
		Sec. 33	640.00											
		T11N,R4E-U.M.												
		Sec. 4	640.00											
		Sec. 5	640.00											
		Sec. 7	593.24											
		Sec. 8	640.00											
		Sec. 9	640.00											
Sec. 21	640.00													
	TOTAL		6,799.24											
24	387212 932199	T12N,R4E-U.M.		None	Sliding		State	8	1.333334	Kuukpik Corp.	**1.666667	CPAI	78.000000	
		Sec. 27, All, within NPRA	550.29		Scale		ASRC	92	**13.666669			APC	22.000000	
		TOTAL	550.29		**16.666667				15.000003				100.000000	
25	25530 932098	T12N,R4E-U.M.		None	12.5		State	8	1.000000	Chevron	1.703000	CPAI	78.000000	
		Sec. 27, All, excl. NPRA	89.71				ASRC	92	10.500000	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	89.71						11.500000		2.703000		100.000000	
26	387212 932199	T12N,R4E-U.M.		None	Sliding		State	60.18	10.030002	Kuukpik Corp.	**1.666667	CPAI	78.000000	
		Sec. 26, All, within NPRA	17.36		Scale		ASRC	39.82	**4.970001			APC	22.000000	
		TOTAL	17.36		**16.666667				15.000003				100.000000	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
27	25530	T12N,R4E-U.M.		None	12.5		State	60.18	7.522500	Chevron	1.703000	CPAI	78.000000
	932098	Sec. 26, All, excl. NPRA	622.64				ASRC	39.82	3.977500	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	622.64						11.500000		2.703000		100.000000
28	25530	T12N,R4E-U.M.		None	12.5		State	55.79	6.973750	Chevron	1.703000	CPAI	78.000000
	932098	Sec. 25, All	640.00				ASRC	44.21	4.526250	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						11.500000		2.703000		100.000000
29	25558	T12N-R5E,U.M.		None	12.5		State	100	12.5	Chevron	1.703000	CPAI	78.000000
	932102	Sec. 29, All	640.00									APC	22.000000
		Sec. 30, All	588.00										100.000000
		Sec. 31, All	591.00										
		Sec. 32, All	640.00										
	TOTAL	2,459.00											
30	25557	T12N-R5E,U.M.		None	12.5		State	100	12.5	Chevron	1.703000	CPAI	78.000000
	932106	Sec. 27, All	640.00									APC	22.000000
		Sec. 28, All	640.00										100.000000
		Sec. 33, All	640.00										
		Sec. 34, All	640.00										
	TOTAL	2,560.00											
31	372108	T12N,R5E-U.M.		Above 8,500'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000
	932008	Sec. 26, NW1/4NW1/4,								Petro-Hunt	0.324590	APC	22.000000
		S1/2 NW1/4, SW1/4, W1/2SE1/4,	360.00							XH, LLC	0.254430		100.000000
		TOTAL	360.00							RW Res	0.226800		
									Chevron	1.703000			
									CPAI	0.649180			
										4.673000			

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					Royalty (%)	NPSL (%)																				
31	372108 932008 (Continued)			8,500'-10,350'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000													
											0.324590			APC	22.000000											
											0.254430				100.000000											
											0.226800															
											1.703000															
											1.255180															
											5.279000															
				Below 10,350'	12.5		State	100	12.5	Chevron	1.703000															
												CPAI	68.928524													
												APC	17.641213													
												Petro-Hunt	5.409868													
												XH, LLC	4.240395													
												RW Res	3.780000													
												100.000000														
There is no Tract 32																										
33	391579 341413 TOTAL	T12N,R5E-U.M. Sec. 36, SW1/4SW1/4 TOTAL	40.00 40.00	Above 7,130'	16.667		State	58.42	9.736860	CPAI	0.745500	CPAI	78.000000													
											ASRC			41.58	5.930140	Chevron	1.703000	APC	22.000000							
															15.667000	Kuukpik Corp.	1.000000		100.000000							
															3.448500											
																	Below 7,130'	16.667		State	58.42	9.736860	CPAI	0.745500		
																				ASRC	41.58	5.930140	Chevron	1.703000	CPAI	77.700000
																					15.667000	Kuukpik Corp.	1.000000	APC	22.000000	
								3.448500			Petro-Hunt	0.300000														
											100.000000															

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)						
34	391580	T12N,R5E-U.M.		Above 10,350'	12.5		100	12.5	CPAI*	1.515000	CPAI	78.000000
	341403	Sec. 35, All	640.00						Petro-Hunt	0.324590	APC	22.000000
		TOTAL	640.00						XH, LLC	0.254430		100.000000
									RW Res	0.226800		
									Chevron	1.703000		
									CPAI	1.255180		
										5.279000		
				Below 10,350'	12.5		100	12.5	Chevron	1.703000	CPAI	68.928524
											APC	17.641213
											Petro-Hunt	5.409868
											XH, LLC	4.240395
											RW Res	3.780000
												100.000000
35	380096	T12N,R4E-U.M.		None	16.667		50.72	8.453500	Chevron	1.703000	CPAI	78.000000
	932058	Sec. 36, All	640.00				ASRC 49.28	7.213500	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00					15.667000		2.703000		100.000000
36	25530	T12N,R4E-U.M.		None	12.5		59.24	7.405000	Chevron	1.703000	CPAI	78.000000
	932058	Sec. 35, All, excl. NPRA	596.62				ASRC 40.76	4.095000	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	596.62					11.500000		2.703000		100.000000
37	387212	T12N,R4E-U.M.		None	Sliding		59.24	9.873335	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932199	Sec. 35, All, within NPRA	43.38		Scale		ASRC 40.76	**5.126668			APC	22.000000
		TOTAL	43.38		**16.66667			15.000003				100.000000

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					Royalty (%)	NPSL (%)	Royalty Owners						
38	387212	T12N,R4E-U.M.		None	Sliding		State	0.18	0.03	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932199	Sec. 34, All, within NPRA	640.00		Scale		ASRC	99.82	**14.970003			APC	22.000000
		TOTAL	640.00		**16.66667				15.000003				100.000000
39	387207	T11N,R4E-U.M.		None	Sliding		State	10.25	1.708334	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932191	Sec. 3, All, within NPRA	588.85		Scale		ASRC	89.75	**13.291669			APC	22.000000
		TOTAL	588.85		**16.66667				15.000003				100.000000
40	380075	T11N-R4E- U.M.		None	16.667		State	10.25	1.708370	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 3, All, excl. NPRA	51.15				ASRC	89.75	13.958630			APC	22.000000
		TOTAL	51.15						15.667000				100.000000
There is no Tract 41													
42	380075	T11N-R4E, U.M.		None	16.667		State	57.25	9.541860	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 2, All	640.00				ASRC	42.75	6.125140			APC	22.000000
		TOTAL	640.00						15.667000				100.000000
43	380075	T11N-R4E,U.M.		None	16.667		State	53.51	8.918510	Chevron	1.703000	CPAI	78.000000
	932034	Sec. 1, All	640.00				ASRC	46.49	6.748490	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						15.667000		2.703000		100.000000
44	25559	T11N,R5E-U.M.		None	12.5		State	100	12.5	Chevron	1.703000	CPAI	78.000000
	932104	Sec. 5, All	640.00									APC	22.000000
		Sec. 6, All	593.00										100.000000
		Sec. 7, All	596.00										
		Sec. 8, All	640.00										
		TOTAL	2,469.00										

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
45	372095	T11N,R5E-U.M.		Above 10,350'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000	
	931992	Sec. 3, All	640.00							Petro-Hunt	0.324590	APC	22.000000	
		Sec. 4, All	640.00							XH, LLC	0.254430		100.000000	
		Sec. 9, All	640.00							RW Res	0.226800			
		Sec. 10, All	640.00							Chevron	1.703000			
		TOTAL	2,560.00							CPAI	1.255180			
											<u>5.279000</u>			
					Below 10,350'	12.5		State	100	12.5	Chevron	1.703000	CPAI	68.928524
													APC	17.641213
													Petro-Hunt	5.409868
												XH, LLC	4.240395	
												RW Res	3.780000	
													<u>100.000000</u>	
46	25560	T11N,R5E-U.M.		None	12.5		State	100	12.5	Chevron	1.703000	CPAI	78.000000	
	932108	Sec. 2, All	640.00									APC	22.000000	
		TOTAL	640.00										<u>100.000000</u>	
47	391581	T11N,R5E-U.M.		None	12.5		State	63.69	7.961250	Chevron	1.703000	CPAI	78.000000	
	341400	Sec. 1, W1/2W1/2	160.00				ASRC	36.31	3.538750	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	160.00						<u>11.500000</u>		<u>2.703000</u>		<u>100.000000</u>	
There is no Tract 48														
49	25560	T11N,R5E-U.M.		None	12.5		State	57.68	7.210000	Chevron	1.703000	CPAI	78.000000	
	932108	Sec. 11, All	640.00				ASRC	42.32	4.290000	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						<u>11.500000</u>		<u>2.703000</u>		<u>100.000000</u>	
50	380075	T11N-R4E, U.M.		None	16.667		State	76.87	12.811920	Chevron	1.703000	CPAI	78.000000	
	932034	Sec. 12, All	640.00				ASRC	23.13	2.855080	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						<u>15.667000</u>		<u>2.703000</u>		<u>100.000000</u>	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)							
51	380075	T11N-R4E, U.M.		None	16.667		State	70.59	11.765240	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 11, All, excl. NPRA	594.02				ASRC	29.41	3.901760			APC	22.000000
		TOTAL	594.02						15.667000				100.000000
52	387207	T11N,R4E-U.M.		None	Sliding		State	70.59	11.765002	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932191	Sec. 11, All, within NPRA	45.98		Scale		ASRC	29.41	**3.235001			APC	22.000000
		TOTAL	45.98		**16.66667				15.000003				100.000000
53	380075	T11N-R4E, U.M.		None	16.667		State	2.39	0.398340	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 10, All, excl. NPRA	5.83				ASRC	97.61	15.268660			APC	22.000000
		TOTAL	5.83						15.667000				100.000000
54	387207	T11N-R4E-U.M.		None	Sliding		State	2.39	0.398333	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932191	Sec. 10, All, within NPRA	634.17		Scale		ASRC	97.61	**14.601670			APC	22.000000
		TOTAL	634.17		**16.66667				15.000003				100.000000
55	387208	T11N-R4E-U.M.		None	Sliding		State	0.34	0.056667	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932193	Sec. 16, All, within NPRA	630.47		Scale		ASRC	99.66	**14.943336			APC	22.000000
		TOTAL	630.47		**16.66667				15.000003				100.000000
56	380075	T11N-R4E, U.M.		None	16.667		State	0.34	0.05667	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 16, All, excl. NPRA	9.53				ASRC	99.66	15.61033			APC	22.000000
		TOTAL	9.53						15.667				100.000000
57	387208	T11N-R4E-U.M.		None	Sliding		State	39.8	6.633335	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932193	Sec. 15, All, within NPRA	103.94		Scale		ASRC	60.2	**8.366668			APC	22.000000
		TOTAL	103.94		**16.66667				15.000003				100.000000

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					Royalty (%)	NPSL (%)	Royalty Owners						
58	380075	T11N-R4E, U.M.		None	16.667		State	39.8	6.633470	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 15, All, excl. NPRA	536.06				ASRC	60.2	9.033530			APC	22.000000
		TOTAL	536.06						15.667000				100.000000
59	380075	T11N-R4E, U.M.		None	16.667		State	53.63	8.938510	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 14, All	640.00				ASRC	46.37	6.728490			APC	22.000000
		TOTAL	640.00						15.667000				100.000000
60	380075	T11N-R4E, U.M.		None	16.667		State	67.55	11.258560	Kuukpik Corp.	1.000000	CPAI	78.000000
	932034	Sec. 13, All	640.00				ASRC	32.45	4.408440			APC	22.000000
		TOTAL	640.00						15.667000				100.000000
61	372097	T11N,R5E-U.M.		Above 10,350'	12.5		State	100.00	12.50000	CPAI*	1.515000	CPAI	78.000000
	931996	Sec. 17, All	640.00							Petro-Hunt	0.324590	APC	22.000000
		Sec. 18, All	599.00							XH, LLC	0.254430		100.000000
		TOTAL	1,239.00							RW Res	0.226800		
										Chevron	1.703000		
										CPAI	1.255180		
											5.279000		
				Below 10,350'	12.5		State	100.00	12.500000	Chevron	1.703000		
												CPAI	68.928524
												APC	17.641213
												Petro-Hunt	5.409868
												XH, LLC	4.240395
												RW Res	3.780000
													100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
62	372096	T11N, R5E-U.M.		Above 10,350'	12.5		State	100	12.50000	CPAI*	1.515000	CPAI	78.000000
	XH, LLC	0.254430		100.000000									
	RW Res	0.226800											
	Chevron	1.703000											
	CPAI	1.255180											
		<u>5.279000</u>											
	Chevron	1.703000	CPAI	68.928524									
			APC	17.641213									
			Petro-Hunt	5.409868									
		XH, LLC	4.240395										
		RW Res	3.780000										
			<u>100.000000</u>										
63	384210	T11N,R5E,U.M.		None	16.667		State	50.01	8.335170	Chevron	1.703000	CPAI	78.000000
		<u>15.667000</u>	Kuukpik Corp.	1.000000	<u>100.000000</u>								
		TOTAL	600.00						<u>4.031100</u>				
64	391583	T11N,R5E,U.M.		None	16.667		State		10.465210	Chevron	1.703000	CPAI	78.000000
		<u>15.667000</u>	Kuukpik Corp.	1.000000	<u>100.000000</u>								
		TOTAL	40.00						<u>4.031100</u>				
There are no Tracts 65-67													
68	380079	T11N-R5E,U.M.		None	16.667		State	57.26	9.543520	Chevron	1.703000	CPAI	78.000000
		TOTAL	200.00						<u>15.667000</u>	<u>2.703000</u>	<u>100.000000</u>		

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Royalty Owners	Mineral Owns.	Net Royalty*	ORRI Owners	Net	Tract Owners	Working	
					Royalty (%)	NPSL (%)					ORRI (%)		Interest (%)	
69	384211	T11N,R5E-U.M.		None	16.667		State	50	8.333500	CPAI	1.328100	CPAI	78.000000	
	932080	Sec. 21, All	640.00				ASRC	50	7.333500	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						15.667000		2.328100		100.000000	
70	384211	T11N,R5E-U.M.		Above 7,631'	16.667		State	55.79	9.298520	CPAI	1.328100	CPAI	78.000000	
	932080	Sec. 20, All	640.00				ASRC	44.21	6.368480	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	640.00						15.667000		2.328100		100.000000	
					Below 7,631'	16.667		State	55.79	9.298520	CPAI	1.328100	CPAI	77.620000
								ASRC	44.21	6.368480	Kuukpik Corp.	1.000000	APC	22.000000
									15.667000		2.328100	Petro-Hunt	0.380000	
													100.000000	
71	384211	T11N,R5E-U.M.		Above 7,631'	16.667		State	52.88	8.813510	CPAI	1.328100	CPAI	78.000000	
	932080	Sec. 19, All	601.00				ASRC	47.12	6.853490	Kuukpik Corp.	1.000000	APC	22.000000	
		TOTAL	601.00						15.667000		2.328100		100.000000	
					Below 7,631'	16.667		State	52.88	8.813510	CPAI	1.328100	CPAI	77.620000
								ASRC	47.12	6.853490	Kuukpik Corp.	1.000000	APC	22.000000
									15.667000		2.328100	Petro-Hunt	0.380000	
													100.000000	
72	380077	T11N,R4E-U.M.		None	16.667		State	60.51	10.085200	Kuukpik Corp.	1.000000	CPAI	78.000000	
	932036	Sec. 24, All	640.00				ASRC	39.49	5.581800			APC	22.000000	
		TOTAL	640.00						15.667000				100.000000	
73	380077	T11N,R4E-U.M.		None	16.667		State	50.67	8.445170	Kuukpik Corp.	1.000000	CPAI	78.000000	
	932036	Sec. 23, All	640.00				ASRC	49.33	7.221830			APC	22.000000	
		TOTAL	640.00						15.667000				100.000000	

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					Royalty (%)	NPSL (%)	Royalty Owners						
74	380077	T11N,R4E-U.M.		None	16.667		State	21.35	3.558400	Kuukpik Corp.	1.000000	CPAI	78.000000
	932036	Sec. 22, All, excl. NPRA	228.74				ASRC	78.65	12.108600			APC	22.000000
		TOTAL	228.74						15.667000				100.000000
75	387208	T11N,R4E-U.M.		None	Sliding		State	21.35	3.558334	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932193	Sec. 22, All, within NPRA	411.26		Scale		ASRC	78.65	**11.441669			APC	22.000000
		TOTAL	411.26			**16.66667			15.000003				100.000000
76	387209	T11N,R4E-U.M.		None	Sliding		State	2.6	0.433333	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932195	Sec. 27, All, within NPRA	614.70		Scale		ASRC	97.4	**14.56667			APC	22.000000
		TOTAL	614.70			**16.66667			15.000003				100.000000
77	380077	T11N,R4E-U.M.		None	16.667		State	2.6	0.433340	Kuukpik Corp.	1.000000	CPAI	78.000000
	932036	Sec. 27, All, excl. NPRA	25.30				ASRC	97.4	15.233660			APC	22.000000
		TOTAL	25.30						15.667000				100.000000
78	387209	T11N,R4E-U.M.		None	Sliding		State	48.75	8.125002	Kuukpik Corp.	**1.666667	CPAI	78.000000
	932195	Sec. 26, All, within NPRA	25.23		Scale		ASRC	51.25	**6.875001			APC	22.000000
		TOTAL	25.23			**16.66667			15.000003				100.000000
79	380077	T11N,R4E-U.M.		None	16.667		State	48.75	8.125160	Kuukpik Corp.	1.000000	CPAI	78.000000
	932036	Sec. 26, All, excl. NPRA	614.77				ASRC	51.25	7.541840			APC	22.000000
		TOTAL	614.77						15.667000				100.000000
80	384209	T11N-R4E,U.M.		None	16.667		State	63.41	10.568545	CPAI	1.328100	CPAI	78.000000
	932076	Sec. 25, All	640.00				ASRC	36.59	4.098455	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						14.667000		2.328100		100.000000

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					Royalty (%)	NPSL (%)							
81	384211	T11N,R5E-U.M.		None	16.667		State	50.17	8.361830	CPAI	1.328100	CPAI	78.000000
	932080	Sec. 30, All	604.00				ASRC	49.83	7.305170	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	604.00						15.667000		2.328100		100.000000
82	380082	T11N-R5E,U.M.		None	16.667		State	50.86	8.476840	Kuukpik Corp.	1.000000	CPAI	78.000000
	932046	Sec. 29, All	640.00				ASRC	49.14	7.190160			APC	22.000000
		TOTAL	640.00						15.667000				100.000000
83	384215	T13N,R4E-U.M.		None	16.667		State	57.35	9.558525	CPAI	1.328100	Petro-Hunt	0.380000
	932084	Sec. 36, Unsurveyed, All excl. tide & submerged lands seaward of the line of mean high water and channel closing line as shown on the official tract map for Oil and Gas Lease Sale 43	597.00				ASRC	42.65	6.108476	Kuukpik Corp.	1.000000	CPAI	77.620000
		TOTAL	597.00						15.667000		2.328100	APC	22.000000
													100.000000
84	380092	T12N-R4E, U.M.		None	16.667		State	55.36	9.226851	Kuukpik Corp.	1.000000	CPAI	78.000000
	932052	Sec. 1, Unsurveyed, All	640.00				ASRC	44.64	6.440149			APC	22.000000
		TOTAL	640.00						15.667000				100.000000
85	380092	T12N-R4E, U.M.		None	16.667		State	54.62	9.103515	Kuukpik Corp.	1.000000	CPAI	78.000000
	932052	Sec. 2, Unsurveyed, All excl. tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43	583.00				ASRC	45.38	6.563485			APC	22.000000
		TOTAL	583.00						15.667000				100.000000

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					Royalty (%)	NPSL (%)							
86	388525	T12N-R4E, U.M.		None	16.66667		State	54.62	9.103335	Kuukpik Corp.	1.000000	CPAI	78.000000
	932306	Sec. 2, Unsurveyed, All within the bed of the unnamed channel for the Colville River as shown on the official tract map for State Oil and Gas Lease Sale 75, dated August 26, 1992	57.00				ASRC	45.38	6.563335			APC	22.000000
									<u>15.666670</u>				<u>100.000000</u>
		TOTAL		57.00									
87	380092	T12N-R4E, U.M.		None	16.667		State	73.42	12.236911	Kuukpik Corp.	1.000000	CPAI	78.000000
	932052	Sec. 3, Unsurveyed, E1/2, E1/2W1/2, excl. tide & submerged lands seaward of the line of mean high water as shown on the official tract map for Oil and Gas Lease Sale 43	293.00				ASRC	26.58	3.430089			APC	22.000000
									<u>15.667000</u>				<u>100.000000</u>
		TOTAL		293.00									
88	388525	T12N-R4E, U.M.		None	16.66667		State	73.42	12.236669	Kuukpik Corp.	1.000000	CPAI	78.000000
	932306	Sec. 3, Unsurveyed, All within the beds of the Nechelik Channel and the bed of the unnamed channel of the Colville River as shown on the official tract map for Oil and Gas Lease Sale 75, dated August 26, 1992	327.00				ASRC	26.58	3.430001			APC	22.000000
									<u>15.666670</u>				<u>100.000000</u>
		TOTAL		327.00									

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					Royalty (%)	NPSL (%)	Royalty Owners						
89	25526	T12N-R4E,U.M.		None	12.5		State	70.39	8.798750	Chevron	1.703000	CPAI	78.000000
	932094	Sec. 10, Unsurveyed, All, east of the highest high water mark on the left bank of the Nechelik Channel of the Colville River	375.36				ASRC	29.61	2.701250	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	375.36						11.500000		2.703000		100.000000
90	25526	T12N-R4E,U.M.		None	12.5		State	52.87	6.608750	Chevron	1.703000	CPAI	78.000000
	932094	Sec. 11, Unsurveyed, All	640.00				ASRC	47.13	4.891250	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						11.500000		2.703000		100.000000
91	25526	T12N-R4E,U.M.		None	12.5		State	53.32	6.665000	Chevron	1.703000	CPAI	78.000000
	932094	Sec. 12, Unsurveyed, All	640.00				ASRC	46.68	4.835000	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						11.500000		2.703000		100.000000
92	25526	T12N-R4E,U.M.		None	12.5		State	55.09	6.88625	Chevron	1.703000	CPAI	78.000000
	932094	Sec. 13, Unsurveyed, All	640.00				ASRC	44.91	4.61375	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						11.50000		2.703000		100.000000
93	388901	T12N,R4E-U.M.		None	12.5		State	64.45	8.05625	Chevron	1.703000	CPAI	78.000000
	932349	Sec. 14, Unsurveyed, All	640.00				ASRC	35.55	3.44375	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	640.00						11.50000		2.703000		100.000000
94	388901	T12N,R4E-U.M.		None	12.5		State	58.34	7.29250	Chevron	1.703000	CPAI	78.000000
	932349	Sec. 15, Unsurveyed, All, east of the highest high water mark on the left bank of the Nechelik Channel of the Colville River	398.55				ASRC	41.66	4.20750	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	398.55						11.50000		2.703000		100.000000

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					Royalty (%)	NPSL (%)							
95	388904	T12N,R4E-U.M.		None	16.667		State	58.34	9.72353	Kuukpik Corp.	1.000000	CPAI	78.000000
	932355	Sec. 15, Unsurveyed, All, West of highest high water mark on the left bank of the Nechelik Channel of the Colville River, excluding U.S Survey 9502 Lots 1 and 2 and the NPR-A	73.46				ASRC	41.66	5.94347			APC	22.000000
		TOTAL	73.46						15.66700				100.000000
96	388906	T12N,R4E-U.M.		None	16.66667		State	58.34	9.72334	Kuukpik Corp.	1.666667	CPAI	78.000000
	932359	Sec. 15, Unsurveyed, All, within the NPR-A, excluding U.S. Survey 9502 Lots 1 and 2	7.66				ASRC	41.66	5.27667			APC	22.000000
		TOTAL	7.66						15.00000				100.000000
97	388906	T12N,R4E-U.M.		None	16.66667		State	46.21	7.70167	Kuukpik Corp.	1.666667	CPAI	78.000000
	932359	Sec. 16, Unsurveyed all within the NPR-A, excl. U.S. Survey 9502 Lot 1	17.08				ASRC	53.79	7.29834			APC	22.000000
		TOTAL	17.08						15.00000				100.000000
98	388904	T12N,R4E-U.M.		None	16.667		State	46.21	7.70182	Kuukpik Corp.	1.000000	CPAI	78.000000
	932355	Sec. 16, Unsurveyed, All excluding U.S. Survey 9502 Lot 1 and the NPR-A	579.27				ASRC	53.79	7.96518			APC	22.000000
		TOTAL	579.27						15.66700				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
There are no Tracts 99-100													
101	380093	T12N,R4E-U.M.		None	16.667		State	51.53	8.58851	Kuukpik Corp.	1.000000	CPAI	78.000000
	932054	Sec. 9, Unsurveyed, All	640.00				ASRC	48.47	7.07850			APC	22.000000
		TOTAL	640.00						15.66700				100.000000
102	380093	T12N,R4E-U.M.		None	16.667		State	70.39	11.731901	Kuukpik Corp.	1.000000	CPAI	78.000000
	932054	Sec. 10, Unsurveyed, All West of the highest high water mark on the left bank of the Nechelik Channel of the Colville River	264.64				ASRC	29.61	3.935099			APC	22.000000
		TOTAL	264.64						15.667000				100.000000
103	380093	T12N,R4E-U.M.		None	16.667		State	73.42	12.236911	Kuukpik Corp.	1.000000	CPAI	78.000000
	932054	Sec. 3, Unsurveyed, W1/2W1/2, excl. tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	20.00				ASRC	26.58	3.430089			APC	22.000000
		TOTAL	20.00						15.667				100.000000
104	380093	T12N,R4E-U.M.		None	16.667		State	57.69	9.615192	Kuukpik Corp.	1.000000	CPAI	78.000000
	932054	Sec. 4, Unsurveyed, All, excl. tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	502.00				ASRC	42.31	6.051808			APC	22.000000
		TOTAL	502.00						15.667				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)							
105	389726	T12N,R4E-U.M.		None	16.66667		State	57.69	9.615002	Kuukpik Corp.	1.000000	CPAI	78.000000
	932684	Sec. 4, Unsurveyed, All within the bed of the Nechelik Channel of the Colville River as shown on the official Tract Map for the State O&G Lease Sale 75, dated August 26, 1992	138.00				ASRC	42.31	6.051668			APC	22.000000
		TOTAL	138.00						15.66667				100.000000
There is no Tract 106													
107	389725	T13N,R4E-U.M.		None	16.667		State	76.96	12.826923	CPAI	1.328100	CPAI	77.620000
	932682	Sec. 33, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	278.00				ASRC	23.04	2.840077	Kuukpik Corp.	1.000000	APC	22.000000
		TOTAL	278.00						15.667000		2.328100	Petro-Hunt	0.380000
													100.000000
108	388529	T13N,R4E-U.M.		None	16.66667		State	76.96	12.826669	Kuukpik Corp.	1.000000	CPAI	78.000000
	932310	Sec. 33, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and all uplands within the bed of the Nechelik Channel of the Colville River, both as shown on the official tract map for State O&G Lease Sale 75A dated June 17, 1993	362.00				ASRC	23.04	2.840001			APC	22.000000
		TOTAL	362.00						15.66667				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
109	388528	T13N,R4E-U.M.		None	16.66667		State	67.65	11.275023	Kuukpik Corp.	1.000000	CPAI	78.000000
	932308	Sec. 34, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing line, and all uplands within the bed of the unnamed channel of the Colville River, both as shown on the official tract map for State O&G Lease Sale 75A dated June 17, 1993	420.00				ASRC	32.35	4.391677			APC	22.000000
									<u>15.6667</u>				<u>100.000000</u>
			TOTAL	420.00									
110	389725	T13N,R4E-U.M.		None	16.667		State	67.65	11.275226	CPAI	1.328100	CPAI	77.620000
	932682	Sec. 34, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	220.00				ASRC	32.35	4.391775	Kuukpik Corp.	1.000000	APC	22.000000
									<u>15.667000</u>		<u>2.328100</u>	Petro-Hunt	<u>0.380000</u>
			TOTAL	220.00									<u>100.000000</u>
111	389725	T13N,R4E-U.M.		None	16.667		State	60.52	10.086868	CPAI	1.328100	CPAI	77.620000
	932682	Sec. 35, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water and channel closing line as shown on the official tract map for O&G Lease Sale 43	555.00				ASRC	39.48	5.580132	Kuukpik Corp.	1.000000	APC	22.000000
									<u>15.667</u>		<u>2.328100</u>	Petro-Hunt	<u>0.380000</u>
			TOTAL	555.00									<u>100.000000</u>

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
112	388527	T13N,R4E-U.M.		None	16.66667		State	60.52	10.086669	A. James III	8.333330	CPAI	78.000000
	932623	Sec. 35, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing line as shown on the official tract map for O&G Lease Sale 75A dated June 17, 1993	85.00				ASRC	39.48	5.580001	Revocable		APC	22.000000
									15.66667	Trust			100.000000
			TOTAL	85.00							Kuukpik Corp.	1.000000	
											9.333330		
113	388527	T13N,R4E-U.M.		None	16.66667		State	57.35	9.558335	A. James III	8.333330	CPAI	78.000000
	932623	Sec. 36, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing line as shown on the official tract map for O&G Lease Sale 75A dated June 17, 1993	43.00				ASRC	42.65	6.108335	Revocable		APC	22.000000
									15.66667	Trust			100.000000
			TOTAL	43.00							Kuukpik Corp.	1.000000	
											9.333330		
114	389725	T13N,R4E-U.M.		None	16.667		State	83.68	13.946946	CPAI	1.328100	CPAI	77.620000
	932682	Sec. 25, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	196.00				ASRC	16.32	1.720054	Kuukpik Corp.	1.000000	APC	22.000000
									15.667			Petro-Hunt	0.380000
			TOTAL	196.00									100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)						
115	388527	T13N,R4E-U.M.		None	16.66667		83.68	13.946669	A. James III	8.333330	CPAI	78.000000
	932623	Sec. 25, Unsurveyed, All tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 75A dated June 17, 1993	444.00				16.32	1.720001	ASRC Revocable Trust		APC	22.000000
								15.66667				100.000000
		TOTAL		444.00						Kuukpik Corp.	1.000000	
There are no Tracts 116-118												
119	380081	T11N,R5E-U.M.		None	16.667		50.06	8.3435	State Kuukpik Corp.	1.000000	CPAI	78.000000
	932044	Sec. 28, Unsurveyed, All	640.00				49.94	7.3235	ASRC		APC	22.000000
		TOTAL	640.00					15.667				100.000000
120	ASRC NPRA 2	T11N,R4E-U.M.		None	16.667		100.00	15.0003	ASRC Kuukpik Corp.	1.666700	CPAI	78.000000
	932128	Sec. 28, All	640.00								AEP	22.000000
		Sec. 33, All	640.00									100.000000
		Sec. 34, All	640.00									
	TOTAL		1,920.00									
121	388905	T11N,R4E-U.M.		None	Sliding		30.51	5.085001	State Kuukpik Corp.	**1.666667	CPAI	78.000000
	932357	Sec. 35, Unsurveyed, All, within NPR-A	286.63		Scale **16.66667		69.49	**9.915002	ASRC		APC	22.000000
		TOTAL	286.63					15.000003				100.000000
122	388902	T11N,R4E-U.M.		None	16.667		30.51	5.085102	State Kuukpik Corp.	1.000000	CPAI	78.000000
	932351	Sec. 35, Unsurveyed, All, excluding the NPR-A	353.37				69.49	10.581898	ASRC		APC	22.000000
		TOTAL	353.37					15.667				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
123	388902	T11N,R4E-U.M.		None	16.667		State	60.97	10.16187	Kuukpik Corp.	1.000000	CPAI	78.000000
	932351	Sec. 36, Unsurveyed, All	640.00				ASRC	39.03	5.50513			APC	22.000000
		TOTAL	640.00						15.667				100.000000
124	388903	T11N,R5E-U.M.		None	16.667		State	50.00	8.3335	Kuukpik Corp.	1.000000	CPAI	78.000000
	932353	Sec. 31, Unsurveyed, All	607.00				ASRC	50.00	7.3335			APC	22.000000
		Sec. 32, Unsurveyed, All	640.00						15.667				100.000000
		TOTAL	1,247.00										
125	391587	T11N,R5E-U.M.		None	16.667		State	50.20	8.366834	Kuukpik Corp.	1.000000	CPAI	78.000000
	341409	Sec. 33, Unsurveyed, All	640.00				ASRC	49.80	7.300166			APC	22.000000
		TOTAL	640.00						15.667				
There are no Tracts 126-130													
131	380044	T10N,R5E-U.M.		None	16.667		State	50.00	8.3335	Kuukpik Corp.	1.000000	CPAI	78.000000
	932015	Sec. 6, Unsurveyed, All	609.00				ASRC	50.00	7.3335	CPAI	1.290000	APC	22.000000
		TOTAL	609.00						15.667		1.290000		100.000000
131A	391590	T10N,R5E-U.M.		None	16.667		State	50.00	8.3335	Kuukpik Corp.	1.000000	CPAI	78.000000
	341405	Sec. 5, N1/2NW1/4, SW1/4NW1/4, NW/14SW1/4	160.00				ASRC	50.00	7.3335	CPAI	1.290000	APC	22.000000
		TOTAL	160.00						15.667		1.290000		100.000000
132	388902	T10N,R4E-U.M.		None	16.667		State	55.07	9.178517	Kuukpik Corp.	1.000000	CPAI	78.000000
	932351	Sec. 1, Unsurveyed, All, excluding the NPR-A	586.43				ASRC	44.93	6.488483			APC	22.000000
		TOTAL	586.43						15.667				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		Royalty Owners	Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)							
133	388902	T10N,R4E-U.M.		None	16.667		State	7.86	1.310026	Kuukpik Corp.	1.000000	CPAI	78.000000
	932351	Sec. 2, Unsurveyed, All, excluding the NPR-A	87.63				ASRC	92.14	14.356974			APC	22.000000
		TOTAL	87.63						15.667				100.000000

There are no Tracts 134 - 161

162	390344	T12 N, R4E, U.M.		None	16.667		State	76.19	12.698587	Kuukpik Corp.	1.000000	CPAI	78.00
	933508	Section 5, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	308.00				ASRC	23.81	2.9684127			APC	22.00
		TOTAL	308.00						15.6670000				100.000000

163	390344	T12 N, R4E, U.M.		None	16.667		State	64.60	10.76688	Kuukpik Corp.	1.000000	CPAI	78.000000
	933508	Section 8, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G Lease Sale 43	531.00				ASRC	35.40	4.90012			APC	22.000000
		TOTAL	531.00						15.66700				100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
164	390345	T12 N, R4E, U.M.		None	16.667		State	69.63	11.60523	Kuukpik Corp.	1.00000	CPAI	78.000000
	933510	Section 17, Unsurveyed, All, excluding tide and submerged lands seaward of the line of mean high water as shown on the official tract map for O&G					ASRC	30.37	4.06177			APC	22.000000
		Lease Sale 43	448.00										
		TOTAL	448.00						<u>15.667000</u>				<u>100.000000</u>
165	390348	T12 N, R4E, U.M.		None	16.66667		State	69.63	11.60523	Kuukpik Corp.	1.00000	CPAI	78.000000
	933516	Section 17, Unsurveyed, All, tide and submerged lands seaward of the mean high water as shown on the official tract map for O&G					ASRC	30.37	4.06177			APC	22.000000
		Lease Sale 43	192.00										
		TOTAL	192.00						<u>15.667000</u>				<u>100.000000</u>
166	390350	T12 N, R4E, U.M.		None	16.66667		State	64.60	10.76667	Kuukpik Corp.	1.00000	CPAI	78.000000
	933520	Section 8, Unsurveyed, All, tide and submerged lands as shown on the official tract map for O&G					ASRC	35.40	4.90000			APC	22.000000
		Lease Sale 75	109.00										
		TOTAL	109.00						<u>15.66667</u>				<u>100.000000</u>

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					Royalty (%)	NPSL (%)	Royalty Owners							
167	390350	T12 N, R4E, U.M.		None	16.66667		State	76.19	12.69834	Kuukpik Corp.	1.00000	CPAI	78.000000	
	933520	Section 5, Unsurveyed, All, tide and submerged lands and all uplands within the bed of the unnamed channel of the Colville River as shown on official tract map for O&G Lease Sale 75	332.00				ASRC	23.81	2.96833			APC	22.000000	
		TOTAL	332.00						15.66667					100.000000
168	388465	T12 N, R4E, U.M.		None	16.66667		State	100.00	N/A	None	None	CPAI	78.000000	
	300632	Section 6, Protracted, All tide and submerged lands	577.00									APC	22.000000	
		Section 7, Protracted, All tide and submerged lands	580.00											
		TOTAL	1,157.00											100.000000

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					Royalty (%)	NPSL (%)	Royalty Owners						
169	388466	T12 N, R4E, U.M.		None	16.66667		State	100.00	N/A	None	None	CPAI	78.000000
	300634	Section 18, Protracted, All tide and submerged lands	583.00									APC	22.000000
		Section 19, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing lines as shown on the official tract map	444.59										
		Section 28, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing lines as shown on the official tract map	62.67										
		Section 29, Unsurveyed, All tide and submerged lands seaward of the line of mean high water	237.21										
		Section 30, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the	286.90										
		Section 31, Unsurveyed, All tide and submerged lands seaward of the line of mean high water	47.04										
		Section 32, Unsurveyed, All tide and submerged lands seaward of the line of mean high water	90.66										
		TOTAL	1,752.07										

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original					Net		Working Interest
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty*	ORRI Owners	ORRI (%)	
169	388466 300634 (Continued)	THE CHANNEL CLOSING LINES WITHIN SECTIONS 19, 28 AND 30 WERE DRAWN BASED ON COASTAL BOUNDARY BAY CLOSING LINE PROCEDURE. THE PURPOSE IS TO SEGREGATE TIDE AND SUBMERGED ACREAGE FROM UPLAND ACREAGE.										
170	388463 300628	T12 N, R3E, U.M. S1/2 of Section 1, Protracted, All tide and submerged lands S1/2 of Section 2, Protracted, All tide and submerged lands Section 11, Unsurveyed, all tide and submerged lands seaward of the line of mean high water and the channel closing lines as shown on the official tract map Section 12, Protracted, All tide and submerged lands Section 13, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing lines as shown on the official tract map Section 14, Unsurveyed, All tide and submerged lands seaward of the line of mean high water and the channel closing lines as shown on the official tract map Section 24, Unsurveyed, All tide and submerged lands seaward of the line of mean high water TOTAL		None	16.66667	State	100.00	N/A	None	None	CPAI APC	78.000000 22.000000 <u>100.000000</u>

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Mineral Owns.	Net Royalty*	ORRI Owners	Net	Tract Owners	Working
					Royalty (%)	NPSL (%)	Royalty Owners				ORRI (%)		Interest (%)
170	388463 300628 (cont.)	THE CHANNEL CLOSING LINES WITHIN SECTIONS 11, 13 AND 14 WERE DRAWN BASED ON COASTAL BOUNDARY BAY CLOSING LINE PROCEDURE. THE PURPOSE IS TO SEGREGATE TIDE AND SUBMERGED ACREAGE FROM UPLAND ACREAGE.											
There are no Tracts 171-176													
177	ASRC NPRA 1	T12N, R3E, U.M.		None	12.50		ASRC	100.00	10.500000	Kuukpik Corp.	2.000000	CPAI	78.000000
	932126	Section 11: all excluding tide and submerged lands seaward of the line of mean high water	178.72									AEP	22.000000
		Section 13: all excluding tide and submerged lands seaward of the line of mean high water	184.11										100.000000
		Section 14: all excluding tide and submerged lands seaward of the line of mean high water	624.00										
		Section 23	640.00										
		Section 24: All, excluding tide and submerged lands seaward of the line of mean high water	625.00										
		TOTAL	2,251.83										
178	ASRC NPRA 2	T12N, R4E, U.M.		None	16.667		ASRC	100.00	15.0000	Kuukpik Corp.	1.667000	CPAI	78.000000
	932128	Section 19 (fractional): All, excluding tide and submerged lands seaward of the line of mean high water	118.97									AEP	22.000000
		TOTAL	118.97										100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners							
179	ASRC	T11N, R3E, U. M.		None	12.5		ASRC	100.00	11.2500	Kuukpik Corp.	1.25000	CPAI	78.000000	
	NPRA3	Section 1, All	640.00									AEP	22.000000	
	932671	Section 2, All	640.00										100.000000	
		Section 3, All	640.00											
		Section 12, All	640.00											
		Total	2,560.00											
180	ASRC	T11N, R4E, U.M.		None	16.667		ASRC	100.00	15.00030	Kuukpik Corp.	1.66670	CPAI	78.000000	
	NPRA4	Section 6, All	593.45									AEP	22.000000	
	932669	Section 17, All	640.00										100.000000	
		Section 18, All	598.58											
		Section 29, All	640.00											
		Section 32, All	640.00											
		T10N, R4E, U.M.												
		Section 3, All	640.00											
		Section 4, All	640.00											
		Section 5, All	640.00											
		Total	5,032.03											
181	AA087888	T11N, R3E, U. M.		None	16.6667		BLM	100.00	16.66667	None	None	CPAI	78.000000	
	307461	Section 10, All	640.00									AEP	22.000000	
		Section 14, All	640.00										100.000000	
		Total	1,280.00											
181A	AA092347	T11N, R3E, U. M.		None	16.6667		ASRC	100.00	14.16667	Kuukpik Corp.	2.500000	CPAI	78.000000	
	340758	Section 11, All	640.00									AEP	22.000000	
		Section 13, All	640.00										100.000000	
		Total	1,280.00											

Exhibit A
Attached to and made a part
of the Colville River Unit Agreement

Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners						
182	AA081817	T11N, R4E, U.M.		None	16.66667		BLM	100.00	16.66667	None	CPAI	78.000000	
	932552	Section 31, All	605.00								AEP	22.000000	
		T11N, R3E, U. M.										100.000000	
		Section 23, All	640.00										
		Section 26, All	640.00										
		Section 36, All	640.00										
	Total		2,525.00										
182A	AA092344	T11N, R4E, U.M.		None	16.66667		ASRC	100.00	14.16667	Kuukpik Corp.	2.500000	CPAI	78.000000
	340757	Section 19, All	600.00									AEP	22.000000
		Section 20, All	640.00										100.000000
		Section 30, All	602.00										
		T11N, R3E, U. M.											
		Section 24, All	640.00										
	Section 25, All	640.00											
	Total		3,122.00										
183	390337	T10N, R4E, U.M.		None	Sliding		State	7.86	1.31000	Kuukpik Corp.	1.66667	CPAI	78.000000
	300618	Section 2, Surveyed by			Scale		ASRC	92.14	13.69000			APC	22.000000
		protraction, Lots 2 and 4	552.37		16.66667**				15.00000				100.000000
		Total	552.37										
184	390337	T10N, R4E, U.M.		None	Sliding		State	55.07	9.17834	Kuukpik Corp.	1.66667	CPAI	78.000000
	300618	Section 1, Surveyed, by			Scale		ASRC	44.93	5.82166			APC	22.000000
		protraction, Lot 4	53.57		16.66667**				15.00000				100.000000
		Total	53.57										

Tracts 185-205 are identified in the Fifth Expansion Application (Pending)

Exhibit A
Attached to and made a part
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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Mineral Owns.	Net Royalty*	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners						
206	AA094165	T11N, R3E, U.M.		None	16.6667		BLM	100.00	16.66667	None	None	CPAI	78.000000
	366606	Section 22, All	640.00									AEP	22.000000
		Section 27, All	640.00										
		Section 34, All	640.00										
		Section 35, All	640.00										
		Total	2,560.00										100.000000
207	AA094167	T10N, R3E, U.M.		None	16.6667		BLM	100.00	16.66667	None	None	CPAI	78.000000
	366608	Section 1, All	638.00									AEP	22.000000
		Section 2, All	639.00										
		Section 3, All	639.00										
		Total	1,916.00										100.000000
208	AA092675	T10N, R4E, U.M.		None	16.6667		BLM	100.00	16.66667	None	None	CPAI	78.000000
	341734	Section 6, All	609.00									AEP	22.000000
		Total	609.00										100.000000
209	AA084140	T12N, R4E, U.M.		None	16.6667		BLM	100.00	16.66667	None	None	CPAI	78.000000
	933472	U.S.SURVEY 9502, LOTS 1 and 2.	239.93									AEP	22.000000
		Total	239.93										100.000000

Exhibit A
Attached to and made a part
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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original		NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty*	ORRI Owners	Net	Tract Owners	Working
					Royalty (%)	ORRI (%)						Interest (%)		
TOTAL UNIT ACREAGE			122,331.64											

* ASRC's net royalty amount reflects the net ORRI granted to Kuukpik.

** This lease has a sliding scale overriding royalty therefore the original royalty percentage will vary between 16.66667% and 33.33333%. Kuukpik shall receive an overriding royalty equal to 10% of the Original Royalty Percentage, payable out of ASRC Original Royalty Percentage share of production. For example, using a fictitious tract with equal ownership of mineral interest between the State and ASRC, if the royalty rate escalates to 20%, then Kuukpik shall be entitled to receive 2% overriding royalty $(0.10 \times 0.20 = 0.02)$ on 8/8ths of production, the State would receive 10% royalty on 8/8ths of production $(0.50 \times 0.20 = 0.10)$, and ASRC would receive 8% royalty on 8/8ths of production $[(0.50 \times 0.20) - (0.10 \times 0.20) = 0.08]$.

KEY:

APC: Anadarko Petroleum Corporation
AEP: Anadarko E&P Onshore LLC
ASRC: Arctic Slope Regional Corporation
AVCG: AVCG, LLC
BLM: Bureau of Land Management
BRPC: Brooks Range Petroleum Corporation
Chevron: Chevron U.S.A. Inc.
CPAI: ConocoPhillips Alaska, Inc.
CPAI*: CPAI, et al, as successor to Texaco
CPAI:** CPAI, et al, as successor to Midgard Energy Company
D.K. Nerland: Delores K. Nerland
Enea Tena Inv.: Enea Tekna Investments
Kuukpik Corp.: Kuukpik Corporation
Petro-Hunt: Petro-Hunt, L.L.C.
R.E. Wagner: Richard E. Wagner
R W Res: Rosewood Resources, Inc.
State: State of Alaska
W.G. Stroecker: William G. Stroecker

2. Colville River Unit Approved Exhibit B

Map of Proposed Expanded Unit Area

1:150,000



T13N R5E

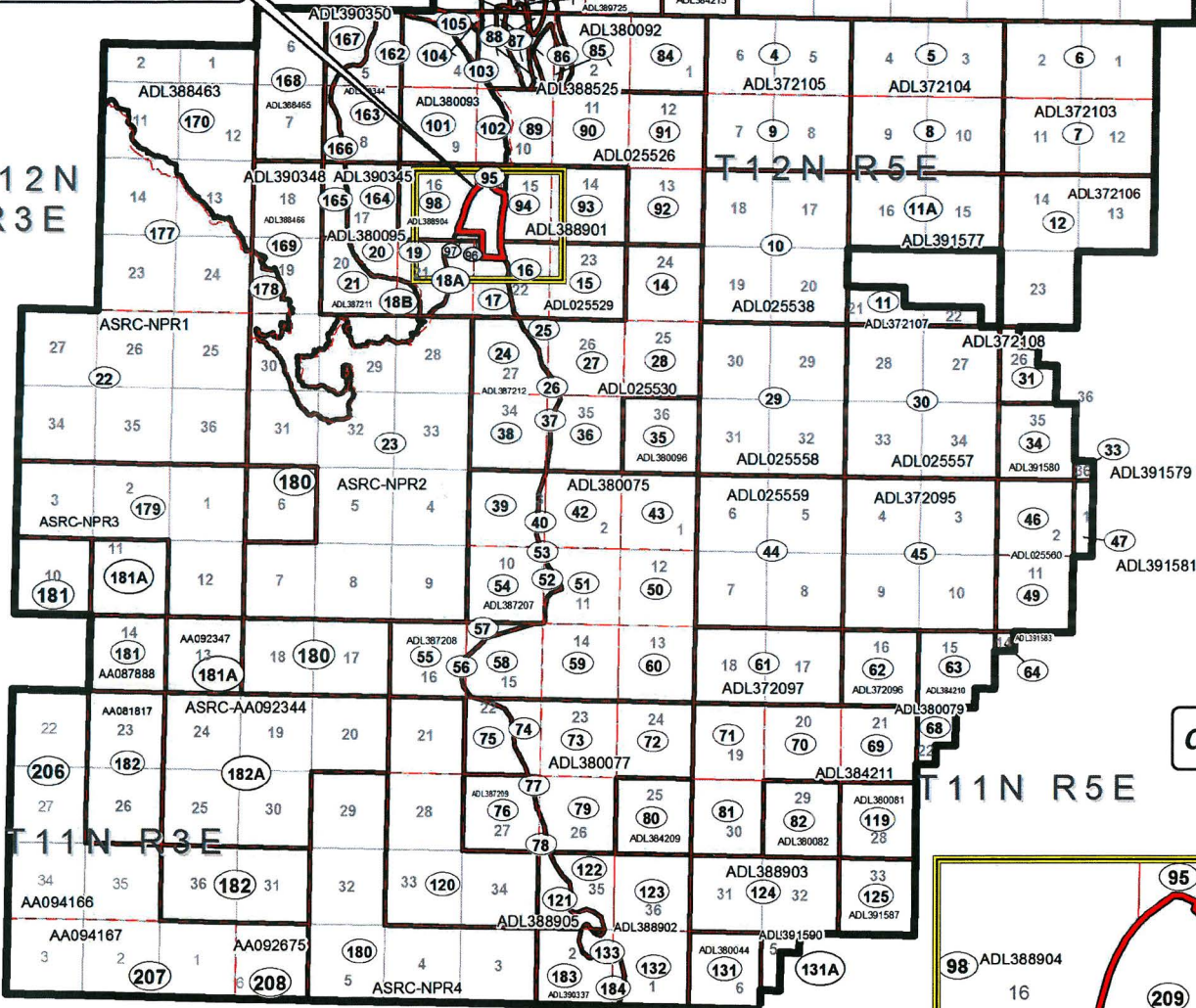
T13N R4E

CRU 7th Expansion

T12N R3E

T12N R5E

CRU 7th Expansion



T11N R3E

T11N R5E

T10N R4E

T10N R5

-  CRU 7th Expansion
-  Unit Boundary
-  CRU Unit Tracts
-  Lease Boundary

ConocoPhillips

Exhibit B
Seventh Expansion of the
Colville River Unit
Colville Delta, Alaska

January 19, 2017