

COLVILLE RIVER UNIT

APPROVAL OF THE EIGHTH 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

August 6, 2018

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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 Eighth Unit Expansion of the Colville River Unit (CRU) (Application) on April 25, 2018 from the CRU Operator, ConocoPhillips Alaska, Inc. (CPAI). The proposed and approved expansion of the CRU includes approximately 412 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 jointly owned State of Alaska and ASRC oil and gas lease.

“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 April 25, 2018.

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 April 25, 2018, 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; Attachment 3, geological, geophysical, engineering, and well information directly supporting the application; and Attachment 4, planned exploration and development activities for the proposed expansion area. The ratified unit agreement and unit operating agreement were already on file with the Division.

The Division published a public notice in the *Anchorage Daily News* and *Arctic Sounder* on May 10, 2018, in compliance with 11 AAC 83.311. 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 June 11, 2018. No comments were received.

The proposed expansion includes an additional 412 acres within one jointly owned State of Alaska and ASRC oil and gas lease bordered on three sides by existing unit acreage. Attachments 1 and 2 of the Application contain a description of the proposed expansion lease and a map of the proposed boundaries, respectively. At the time of application CPAI held 78 percent of the working interest and the remaining 22 percent working interest was held by Anadarko E&P Onshore LLC. Since that time, CPAI has been assigned 100 percent of the working interest.

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

The Brookian sequence represents a wide range of clastic rocks that filled the Colville foreland basin from west to east during Cretaceous and Tertiary time. Multiple formations and clinoformal successions make up the Brookian sequence. Brookian clinoforms present themselves in seismic as topsets (sand-prone coastal plain and shallow marine shelf), foresets (muddy slope and sandy turbidite channels and slope apron fans), and bottomsets (sandy basin-floor turbidites and organic rich shales). This discussion focuses on the Brookian topsets of the Nanushuk Formation.

Oil production from Nanushuk sands began in the CRU in 2006 with the development of the Qannik field. The productive Qannik sands are at the top of a coarsening upwards interval that is approximately 100 feet thick. Net pay averages 10 to 15 feet and the porosity ranges from 20 to 25 percent. The Qannik sandstone is very fine-grained and lithic-rich. Qannik reservoir fluid samples recovered from the Nanuq #2 and Nanuq #5 exploratory wells and the CD2-11 and CD2-404 service wells measured between 27-degree and 32-degree API gravity (AOGCC Conservation Order No. 605).

In 2012, Repsol E&P USA Inc. and Armstrong Oil and Gas (AOG) began a multi-year exploration program that identified oil in the Nanushuk Formation east of the CRU in the following exploration wells: Qugruk #3, Qugruk #3A, Qugruk #301, Qugruk #7, and Qugruk #8. At the time of this decision, the only well data that are publicly available through AOGCC are from Qugruk #3 and Qugruk #3A. Well data for Qugruk #301, Qugruk #7, and Qugruk #8 remain confidential. Oil bearing Nanushuk sands in the Qugruk #3A well appear as two coarsening upwards packages. The total interval is approximately 90 feet thick with porosity ranging from 18 to 24 percent in the sands that have resistivity values greater than 10 ohm-m. Repsol E&P USA Inc. and AOG reported Nanushuk production as achieving a peak rate of 4,600 barrels of oil per day (BOPD) from a stimulated production test in a 2,000 foot horizontal lateral in the Qugruk #301 well and a peak rate of 2,160 BOPD (30-degree API oil) from a stimulated production test the vertical Qugruk #8 well.

In 2017, AOG drilled the Horseshoe #1 and Horseshoe #1A wells to confirm the extent of the Nanushuk trend to the south of the CRU. AOG announced that both Horseshoe wells encountered oil pay in the Nanushuk Formation. Repsol E&P USA and AOG announced that the initial pressure data in the oil leg at the Horseshoe wells were on the same gradient as the oil-bearing Nanushuk sands in the Qugruk wells to the north. In 2018, CPAI drilled Putu #2 and Putu #2A within the fifth expansion area of the CRU to depths of 6,499 feet Measured Depth (MD) (4,675 True Vertical Depth (TVD)) and 5,044 feet MD (5,044 feet TVD) respectively. The Putu #2 and Putu #2A wells are located along a northeast-southwest arcuate trend between the Qugruk #8 and the Horseshoe #1 and #1A well locations that mimics the shape of Brookian shelf edge margins in this region.

Conclusion

The eighth expansion of the Colville River Unit proposed by CPAI is sufficiently supported by technical data submitted by the operator. Data submitted to the Division included confidential well data, maps, well log cross-sections through prospective reservoirs, seismic attribute displays, and annotated seismic lines through prospective reservoirs.

Review of the geological, geophysical, and engineering data has allowed the Division to reasonably establish the potential for the Brookian reservoirs in the proposed expansion acreage.

3. Plans of Exploration and Development

The eighth expansion area is bordered on three sides by the fifth expansion area. Terms of the fifth expansion area required CPAI to drill two exploration wells in the fifth expansion area, followed by a decision to develop the area. CPAI drilled the two required wells during the 2018 winter season and has until August 14, 2020 to propose plans to develop the area. Because the eighth expansion area is so closely related to the fifth expansion area the Division will consider the requirements for exploration and terms of voluntary surrender or contraction to be the same

for the eighth expansion area as those set forth in the Commissioner’s August 1, 2017 decision on Reconsideration of the Denial of the Fifth Expansion.¹

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 parties of interest.

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 share future infrastructure and facilities with existing unit acreage. If the area was not unitized development would result in 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,

¹ CPAI’s Expansion Application raised this issue in a section entitled “Deferral of Unit Contractation.” To clarify, the terms and conditions set forth in the Commissioner’s August 1, 2017 decision on the CPAI’s Fifth Expansion Application do not “defer unit contraction.” Article 12.4 and 12.6 of the CRUA address the Commissioner’s authority to contract the CRUA from time to time after 10 years have passed since first production. As the Commissioner’s decision on the Fifth Expansion explained, DNR cannot modify or contract away its regulatory discretion. *Exxon Corp. v. State*, 40 P.3d 786, 796 (Alaska 2001). Accordingly, to the extent Conoco’s request was meant to be an assurance of deferral or a date certain regarding future contraction, it 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).

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). Review of the unit, including this eighth expansion, under future annual plans of development will provide for continued oversight and approval of CPAI's ongoing 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.

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 April 25, 2018.

For the reasons discussed in this Findings and Decision, I hereby approve the CRU Eighth 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 Jes Spuhler with the Division at 907-269-8817, or by email at jes.spuhler@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

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 ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.					Net Royalty
1	364472	T13N1R5E-U.M.		None	12.5	30	State	100	12.5	CPAI	1.200000	CPAI	78.000000
	931986	Sec. 9, Protracted, All	640.00							APC		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	T13N1R5E-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										
		Sec. 30, Protracted, All	636.00										
		TOTAL	3,180.00								2.000000		
3	364471	T13N1R5E-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										
		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								2.000000		

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	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			
				Below 10,350'	12.5	State	100				2.713920	
										CPAI	66.790810	
										APC	16.342170	
										Petro-Hunt	7.336490	
										XH, LLC	5.750530	
										RW Res	3.780000	
											100.000000	
5	372104	T12N,R5E-U.M.		Above 10,350'	12.5	State	100	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			
				Below 10,350'	12.5	State	100				2.713920	
										CPAI	66.790810	
										APC	16.342170	
										Petro-Hunt	7.336490	
										XH, LLC	5.750530	
										RW Res	3.780000	
											100.000000	

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					
6	372103	T12N, R5E-U.M.		Above 10,350'	12.5	State	100	CPAI*	1.200000	CPAI	78.000000	
	931998	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 XH, LLC CPAI	0.226800 0.201600 0.874400			
				Below 10,350'	12.5	State	100		3.960000	CPAI	71.471623	
7	372103	T12N, R5E-U.M.		Above 10,350'	12.5	State	100	CPAI*	1.200000	CPAI	78.000000	
	931998	Sec. 1, 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 XH, LLC Chevron CPAI	0.226800 0.201600 1.703000 0.874400			
				Below 10,350'	12.5	State	100	Chevron	1.703000	CPAI	71.471623	
									5.663000	APC	17.101710	
										Petro-Hunt	4.286667	
										RW Res	3.780000	
										XH, LLC	3.360000	
											100.000000	

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					
8	372104	T12N, R5E-U.M.		Above 10,350'	12.5		100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
	932000	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			
									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
9	372105	T12N, R5E-U.M.		Above 10,350'	12.5	State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000
	932002	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			
									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

Exhibit A
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Tr. No.	ADL No./AK No.	Legal Description	Acres	Depth Restrictions	Original			Net		Working Interest (%)					
					Royalty (%)	NPSL (%)	Royalty Owners	ORRI (%)	ORRI Owners						
10	25538 932100	T12N1R5E-U.M. Sec. 17, All Sec. 18, All Sec. 19, All Sec. 20, All TOTAL	640.00 583.00 585.00 640.00 2,448.00	None	12.5	State	100	12.5	Chevron	1.703000	CPAI	78.000000			
											APC	22.000000			
													100.000000		
11	372107 932006	T12N1R5E-U.M. Sec. 21, SE1/4SE1/4, W1/2SE1/4, SW1/4 Sec. 22, SW1/4SE1/4, S1/2SW1/4 TOTAL	280.00 120.00 400.00	Above 8,500'	12.5	State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000			
											XH, LLC	0.345030	APC	22.000000	
														100.000000	
				8,500'-10,350'	12.5	State	100	12.5	Petro-Hunt	0.440190	CPAI	78.000000			
											XH, LLC	0.345030	APC	22.000000	
														100.000000	
				Below 10,350'	12.5	State	100	12.5	Chevron	1.703000	CPAI	66.790810			
													APC	16.342170	
															7.336490
															5.750530
															3.780000
											100.000000				

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net			Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Mineral Owners	ORRI Owners	ORRI (%)	Tract Owners	
11A	391577	T12N1R5E-U.M.		Above 8.500'	12.5		State 100	Petro-Hunt	0.440190	CPAI	78.000000
	341402	Sec. 15, Unsurveyed, All	640.00				XH, LLC	XH, LLC	0.345030	APC	22.000000
		Sec. 16, Unsurveyed, All	640.00				RW Res	RW Res	0.226800		100.000000
		TOTAL	1,280.00				Chevron	Chevron	1.703000		
							CPAI	CPAI	0.880380		
									<u>3.595400</u>		
				8,500'-10,350'	12.5		State 100	Petro-Hunt	0.440190	CPAI	78.000000
							XH, LLC	XH, LLC	0.345030	APC	22.000000
							RW Res	RW Res	0.226800		100.000000
							Chevron	Chevron	1.703000		
							CPAI	CPAI	1.701900		
									<u>4.416920</u>		
				Below 10,350'	12.5		State 100	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			Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners		ORRI (%)	Tract Owners
12	372106	T12N1R5E-U.M.		Above 8,500'	12.5		State	100	12.5	CPAI*	1.515000	CPAI	78.000000
	932004	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		
											6.188000		
				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		
											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 13

14	25530	T12N1R4E-U.M.		None	12.5		State	51.97	6.49625	Chevron	1.703000	CPAI	78.000000
	932098	Sec. 24, All	640.00				ASRC*	48.03	5.00375	Kuukpik Corp.*	1.000000	APC	22.000000
		TOTAL	640.00						11.5		2.703000		100.000000
15	25529	T12N1R4E-U.M.		None	12.5		State	50.05	6.25625	Chevron	1.703000	CPAI	78.000000
	932096	Sec. 23, All	640.00				ASRC*	49.95	5.24375	Kuukpik Corp.*	1.000000	APC	22.000000
		TOTAL	640.00						11.5		2.703000		100.000000

Exhibit A to CRUA
Revised April 23, 2018

Exhibit A
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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
16	25529 932096	T12N,R4E-U.M. Sec. 22 excl. NPRA	346.19	None	12.5		State	47.37	5.92125	Chevron	1.703000	CPAI	78.000000
		TOTAL	346.19				ASRC*	52.63	5.57875	Kuukpik Corp.*	1.000000	APC	22.000000
									11.5		2.703000		100.000000
17	387211 932197	T12N,R4E-U.M. Sec. 22, All, within NPRA, excl. USS 9502 Lot 2	257.86	None	16.66667		State	47.37	7.895002	Kuukpik Corp.*	1.666667	CPAI	78.000000
		TOTAL	257.86				ASRC*	52.63	7.105001			APC	22.000000
									15.000003				100.000000
18-A	387211 932197	T12N,R4E-U.M. Sec. 21, All, within NPRA	229.92	None	16.66667		State	26.23	4.371668	Kuukpik Corp.*	1.666667	CPAI	78.000000
		TOTAL	229.92				ASRC*	73.77	10.628335			APC	22.000000
									15.000003				100.000000
18-B	387211 932197	T12N,R4E-U.M. 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	None	16.66667		State	26.23	4.37167	Kuukpik Corp.*	1.000000	CPAI	78.000000
		TOTAL	90.00				ASRC*	73.77	11.295			APC	22.000000
									15.66667				100.000000
19	380095 932056	T12N,R4E-U.M. 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	None	16.667		State	26.23	4.37175	Kuukpik Corp.*	1.000000	CPAI	78.000000
		TOTAL	320.08				ASRC*	73.77	11.29525			APC	22.000000
									15.667				100.000000

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Tr. No.	ADL No./AK No.	Legal Description	Acres	Depth Restrictions	Original				Net		Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners		
20	380095	T12N,R4E-U.M.		None	16.667		State	87.45	14.57529	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*	ASRC*	12.55	1.09171		APC	22.000000
		TOTAL	178.00						15.667			100.000000
21	387211	T12N,R4E-U.M.		None	16.66667		State	87.45	14.575	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*	ASRC*	12.55	1.09167		APC	22.000000
		TOTAL	462.00						15.66667			100.000000
22	ASRC NPRA 1	T12N,R3E-U.M.		None	12.5		ASRC*	100	11.25	1.250000	CPAI	78.000000
	932126	Sec. 25	640.00								AEP	22.000000
		Sec. 26	640.00									100.000000
		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		Working Interest (%)			
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners		ORRI (%)	Tract Owners	
23	ASRC NPRA 2 932128	T12N,R4E-U.M.		None	16.667	ASRC*	100	1.5	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 Sec. 33	534.95 640.00											
24	387212 932199	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											
						None	Sliding	State	8	1.333334	Kuukpik Corp.*	**1.666667	CPAI	78.000000
							Scale	ASRC*	92	**13.666669			APC	22.000000
					**16.66667			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			ASRC*	39.82	**4.970001			APC	22.000000		
		TOTAL	17.36			**16.66667			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 Mineral Owns.					
31	372108			8,500'-10,350'	12.5	State	100	CPAI*	1.515000	CPAI	78.000000	
	932008							Petro-Hunt	0.324590	APC	22.000000	
	(Continued)							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	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 32

33	391579	T12N,R5E-U.M.		Above 7,130'	16.667	State	58.42	CPAI	0.745500	CPAI	78.000000
	341413	Sec. 36, SW1/4SW1/4	40.00			ASRC*	41.58	Chevron	1.703000	APC	22.000000
		TOTAL	40.00				<u>15.667000</u>	Kuukpik Corp.*	1.000000		<u>100.000000</u>
									<u>3.448500</u>		
				Below 7,130'	16.667	State	58.42	CPAI	0.745500		
						ASRC*	41.58	Chevron	1.703000	CPAI	77.700000
							<u>15.667000</u>	Kuukpik Corp.*	1.000000	APC	22.000000
									<u>3.448500</u>	Petro-Hunt	0.300000
											<u>100.000000</u>

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty	ORRI Owners	ORRI Owners	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners					
34	391580	T12N,R5E-U.M.		Above 10,350'	12.5	State	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 RW Res Chevron CPAI	0.254430 0.226800 1.703000 1.255180 <u>5.279000</u>		100.000000
35	380096	T12N,R4E-U.M.		None	16.667	State	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					<u>15.667000</u>		<u>2.703000</u>		100.000000
36	25530	T12N,R4E-U.M.		None	12.5	State	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					<u>11.500000</u>		<u>2.703000</u>		100.000000
37	387212	T12N,R4E-U.M.		None	Sliding	State	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			<u>15.000003</u>				<u>100.000000</u>

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
38	387212 932199	T11N,R4E-U.M. Sec. 34, All, within NPRA	640.00 640.00	None	Sliding Scale		State ASRC*	0.18 99.82	0.03 **14.970003	Kuukpik Corp.*	**1.666667	CPAI APC	78.000000 22.000000
		TOTAL			**16.66667				15.000003				100.000000
39	387207 932191	T11N,R4E-U.M. Sec. 3, All, within NPRA	588.85	None	Sliding Scale		State ASRC*	10.25 89.75	1.708334 **13.291669	Kuukpik Corp.*	**1.666667	CPAI APC	78.000000 22.000000
		TOTAL	588.85		**16.66667				15.000003				100.000000
40	380075 932034	T11N,R4E-U.M. Sec. 3, All, excl. NPRA	51.15	None	16.667		State ASRC*	10.25 89.75	1.708370 13.958630	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000
		TOTAL	51.15						15.667000				100.000000
There is no Tract 41													
42	380075 932034	T11N,R4E, U.M. Sec. 2, All	640.00	None	16.667		State ASRC*	57.25 42.75	9.541860 6.125140	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000
		TOTAL	640.00						15.667000				100.000000
43	380075 932034	T11N,R4E,U.M. Sec. 1, All	640.00	None	16.667		State ASRC*	53.51 46.49	8.918510 6.748490	Chevron Kuukpik Corp.*	1.703000 1.000000	CPAI APC	78.000000 22.000000
		TOTAL	640.00						15.667000		2.703000		100.000000
44	25559 932104	T11N,R5E-U.M. Sec. 5, All Sec. 6, All Sec. 7, All Sec. 8, All	640.00 593.00 596.00 640.00	None	12.5		State	100	12.5	Chevron	1.703000	CPAI APC	78.000000 22.000000 100.000000
		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 931992	T11N,R5E-U.M. Sec. 3, All Sec. 4, All Sec. 9, All Sec. 10, All TOTAL	640.00 640.00 640.00 640.00 2,560.00	Above 10,350'	12.5	State	100	12.5	CPAI*	1.515000	CPAI	78.000000						
													12.5	Petro-Hunt	0.324590	APC	22.000000	
													12.5	XH, LLC	0.254430		100.000000	
													12.5	RW Res	0.226800			
													12.5	Chevron	1.703000			
								CPAI	1.255180									
									5.279000									
46	25560 932108	T11N,R5E-U.M. Sec. 2, All TOTAL	640.00 640.00	None	12.5	State	100	Chevron	1.703000	CPAI	68.928524							
												12.5		17.641213				
												12.5		5.409868				
47	391581 341400	T11N,R5E-U.M. Sec. 1, W1/2W1/2 TOTAL	160.00 160.00	None	12.5	State	63.69	Chevron	1.703000	CPAI	78.000000							
												12.5	ASRC*	3.538750	Kuukpik Corp.*	1.000000	APC	22.000000
												12.5		11.500000		2.703000		100.000000
There is no Tract 48																		
49	25560 932108	T11N,R5E-U.M. Sec. 11, All TOTAL	640.00 640.00	None	12.5	State	57.68	Chevron	1.703000	CPAI	78.000000							
												12.5	ASRC*	4.290000	Kuukpik Corp.*	1.000000	APC	22.000000
												12.5		11.500000		2.703000		100.000000
50	380075 932034	T11N,R4E, U.M. Sec. 12, All TOTAL	640.00 640.00	None	16.667	State	76.87	Chevron	1.703000	CPAI	78.000000							
												16.667	ASRC*	2.855080	Kuukpik Corp.*	1.000000	APC	22.000000
												16.667		15.667000		2.703000		100.000000

Exhibit A to CRUA
Revised April 23, 2018

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Tr. No.	ADL No./AK No.	Legal Description	Acres	Depth Restrictions	Original			Net ORRI (%)	Tract Owners	Working Interest (%)		
					Royalty (%)	NPSL (%)	Mineral Owns.					
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	0.056667	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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Tr. No.	ADL No./AK No.	Legal Description	Acres	Depth Restrictions	Original			Net Royalty	Mineral Owns.	NPSL (%)	RORRI Owners	Net RORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	Royalty (%)	Royalty							
58	380075	T11N-R4E, U.M.		None	16.667	39.8	6.633470	Kuukpik Corp.*	1.000000	CPAI	78.000000			
	932034	Sec. 15, All, excl. NPRA	536.06			ASRC*	9.033530			APC	22.000000			
		TOTAL	536.06				15.667000				100.000000			
59	380075	T11N-R4E, U.M.		None	16.667	53.63	8.938510	Kuukpik Corp.*	1.000000	CPAI	78.000000			
	932034	Sec. 14, All	640.00			ASRC*	6.728490			APC	22.000000			
		TOTAL	640.00				15.667000				100.000000			
60	380075	T11N-R4E, U.M.		None	16.667	67.55	11.258560	Kuukpik Corp.*	1.000000	CPAI	78.000000			
	932034	Sec. 13, All	640.00			ASRC*	4.408440			APC	22.000000			
		TOTAL	640.00				15.667000				100.000000			
61	372097	T11N,R5E-U.M.		Above 10,350'	12.5	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	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 931994	T11N, R5E-U.M. Sec. 16, All TOTAL	640.00 640.00	Above 10,350'	12.5	State	100	CPAI*	1.515000	CPAI	78.000000	
								Petro-Hunt XH, LLC RW Res Chevron CPAI	0.324590 0.254430 0.226800 1.703000 1.255180	APC	22.000000 100.000000	
									5.279000			
				Below 10,350'	12.5	State	100	Chevron	1.703000	CPAI	68.928524	
63	384210 932078	T11N, R5E, U.M. Sec. 15, W1/2, NE1/4, N1/2SE1/4, SW1/4SE1/4 TOTAL	600.00 600.00	None	16.667	State ASRC*	50.01 49.99	Chevron CPAI	1.703000 1.328100	CPAI APC	78.000000 22.000000	
								Kuukpik Corp.*	1.000000		100.000000	
									4.031100			
64	391583 341411	T11N, R5E, U.M. Sec. 14, NW1/4NW1/4 TOTAL	40.00 40.00	None	16.667	State ASRC*	62.79 37.21	Chevron CPAI	1.703000 1.328100	CPAI APC	78.000000 22.000000	
								Kuukpik Corp.*	1.000000		100.000000	
									4.031100			
There are no Tracts 65-67												
68	380079 932040	T11N, R5E, U.M. Sec. 22, NW1/4, NW1/4SW1/4 TOTAL	200.00 200.00	None	16.667	State ASRC*	57.26 42.74	Chevron Kuukpik Corp.*	1.703000 1.000000	CPAI APC	78.000000 22.000000	
									2.703000		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 (%)	Royalty Owners						
69	384211	T11N,R5E-U.M.		None	16.667		State	50	8,333,500	CPAI	1.328100	CPAI	78.000000
	932080	Sec. 21, All	640.00			ASRC*	50	7,333,500	Kuukpik Corp.*	1.000000	APC	22.000000	
		TOTAL	640.00						15,667,000		2.328100		100.000000
70	384211	T11N,R5E-U.M.		Above 7.631'	16.667		State	55.79	9,298,520	CPAI	1.328100	CPAI	78.000000
	932080	Sec. 20, All	640.00			ASRC*	44.21	6,368,480	Kuukpik Corp.*	1.000000	APC	22.000000	
		TOTAL	640.00						15,667,000		2.328100		100.000000
71	384211	T11N,R5E-U.M.		Above 7.631'	16.667		State	52.88	8,813,510	CPAI	1.328100	CPAI	78.000000
	932080	Sec. 19, All	601.00			ASRC*	47.12	6,853,490	Kuukpik Corp.*	1.000000	APC	22.000000	
		TOTAL	601.00						15,667,000		2.328100		100.000000
72	380077	T11N,R4E-U.M.		None	16.667		State	60.51	10,085,200	Kuukpik Corp.*	1.000000	CPAI	78.000000
	932036	Sec. 24, All	640.00			ASRC*	39.49	5,581,800			APC	22.000000	
		TOTAL	640.00						15,667,000		2.328100		100.000000
73	380077	T11N,R4E-U.M.		None	16.667		State	50.67	8,445,170	Kuukpik Corp.*	1.000000	CPAI	78.000000
	932036	Sec. 23, All	640.00			ASRC*	49.33	7,221,830			APC	22.000000	
		TOTAL	640.00						15,667,000		2.328100		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 (%)	Royalty Owners						
74	380077	T11N,R4E-U.M.	228.74	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						15.667000				100.000000	
75	387208	T11N,R4E-U.M.	411.26	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			**16.66667			15.000003				100.000000	
76	387209	T11N,R4E-U.M.	614.70	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			**16.66667			15.000003				100.000000	
77	380077	T11N,R4E-U.M.	25.30	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						15.667000				100.000000	
78	387209	T11N,R4E-U.M.	25.23	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			**16.66667			15.000003				100.000000	
79	380077	T11N,R4E-U.M.	614.77	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						15.667000				100.000000	
80	384209	T11N,R4E,U.M.	640.00	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						14.667000		2.328100		100.000000	

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net			Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Mineral Owns.	Net Royalty	ORRI Owners	ORRI (%)		Tract Owners
81	384211	T11N,R5E-U.M.		None	16.667		50.17	8,361,830	CPAI	1,328,100	CPAI	78,000,000
	932080	Sec. 30, All	604.00			ASRC*	49.83	7,305,170	Kuukpik Corp.*	1,000,000	APC	22,000,000
		TOTAL	604.00					15,667,000		2,328,100		100,000,000
82	380082	T11N-R5E, U.M.		None	16.667		50.86	8,476,840	Kuukpik Corp.*	1,000,000	CPAI	78,000,000
	932046	Sec. 29, All	640.00			ASRC*	49.14	7,190,160			APC	22,000,000
		TOTAL	640.00					15,667,000				100,000,000
83	384215	T13N,R4E-U.M.		None	16.667		57.35	9,558,525	CPAI	1,328,100	Petro-Hunt	0,380,000
	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	6,108,476	Kuukpik Corp.*	1,000,000	CPAI	77,620,000
		TOTAL	597.00					15,667,000		2,328,100	APC	22,000,000
84	380092	T12N-R4E, U.M.		None	16.667		55.36	9,226,851	Kuukpik Corp.*	1,000,000	CPAI	78,000,000
	932052	Sec. 1, Unsurveyed, All	640.00			ASRC*	44.64	6,440,149			APC	22,000,000
		TOTAL	640.00					15,667,000				100,000,000
85	380092	T12N-R4E, U.M.		None	16.667		54.62	9,103,515	Kuukpik Corp.*	1,000,000	CPAI	78,000,000
	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	6,563,485			APC	22,000,000
		TOTAL	583.00					15,667,000				100,000,000

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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 (%)	Tract Owners
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
		TOTAL	57.00						15.666670				100.000000
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
		TOTAL	293.00						15.667000				100.000000
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
		TOTAL	327.00						15.666670				100.000000

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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 (%)
89	25526 932094	T12N-R4E-U.M. Sec. 10, Unsurveyed, All, east of the highest high water mark on the left bank of the Nechelik Channel of the Colville River TOTAL	375.36 375.36	None	12.5	State	70.39	8,798,750	Chevron	1,703,000	CPAI	78.000000
						ASRC*	29.61	2,701,250	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000
90	25526 932094	T12N-R4E-U.M. Sec. 11, Unsurveyed, All TOTAL	640.00 640.00	None	12.5	State	52.87	6,608,750	Chevron	1,703,000	CPAI	78.000000
						ASRC*	47.13	4,891,250	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000
91	25526 932094	T12N-R4E-U.M. Sec. 12, Unsurveyed, All TOTAL	640.00 640.00	None	12.5	State	53.32	6,665,000	Chevron	1,703,000	CPAI	78.000000
						ASRC*	46.68	4,835,000	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000
92	25526 932094	T12N-R4E-U.M. Sec. 13, Unsurveyed, All TOTAL	640.00 640.00	None	12.5	State	55.09	6,886,250	Chevron	1,703,000	CPAI	78.000000
						ASRC*	44.91	4,613,750	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000
93	388901 932349	T12N,R4E-U.M. Sec. 14, Unsurveyed, All TOTAL	640.00 640.00	None	12.5	State	64.45	8,056,250	Chevron	1,703,000	CPAI	78.000000
						ASRC*	35.55	3,443,750	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000
94	388901 932349	T12N,R4E-U.M. Sec. 15, Unsurveyed, All, east of the highest high water mark on the left bank of the Nechelik Channel of the Colville River TOTAL	398.55 398.55	None	12.5	State	58.34	7,292,500	Chevron	1,703,000	CPAI	78.000000
						ASRC*	41.66	4,207,500	Kuukpik Corp.*	1,000,000	APC	22.000000
								11,500,000		2,703,000		100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners	Net ORRI (%)	Tract Owners	Working Interest (%)
95	388904 932355	T12N,R4E-U.M. 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 73.46	None	16.667		State ASRC*	58.34 41.66	9.72353 5.94347	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000
96	388906 932359	T12N,R4E-U.M. Sec. 15, Unsurveyed, All, within the NPR-A, excluding U.S. Survey 9502 Lots 1 and 2	7.66 7.66	None	16.66667		State ASRC*	58.34 41.66	9.72334 5.27667	Kuukpik Corp.*	1.666667	CPAI APC	78.000000 22.000000 100.000000
97	388906 932359	T12N,R4E-U.M. Sec. 16, Unsurveyed all within the NPR-A, excl. U.S. Survey 9502 Lot 1	17.08 17.08	None	16.66667		State ASRC*	46.21 53.79	7.70167 7.29834	Kuukpik Corp.*	1.666667	CPAI APC	78.000000 22.000000 100.000000
98	388904 932355	T12N,R4E-U.M. Sec. 16, Unsurveyed, All excluding U.S. Survey 9502 Lot 1 and the NPR-A	579.27 579.27	None	16.667		State ASRC*	46.21 53.79	7.70182 7.96518	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000

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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			Net		Working Interest (%)		
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty		ORRI Owners	Tract Owners
105	389726 932684	T12N,R4E-U.M. 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 TOTAL	138.00 138.00	None	16.66667	State ASRC*	57.69 42.31	9.615002 6.051668	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000

There is no Tract 106

107	389725 932682	T13N,R4E-U.M. 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 TOTAL	278.00 278.00	None	16.667	State ASRC*	76.96 23.04	12.826923 2.840077	CPAI Kuukpik Corp.*	1.328100 1.000000	CPAI APC	77.620000 22.000000 100.000000
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108	388529 932310	T13N,R4E-U.M. 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 TOTAL	362.00 362.00	None	16.66667	State ASRC*	76.96 23.04	12.826669 2.840001	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000
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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 (%)	Tract Owners
109	388528 932308	T13N,R4E-U.M. 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 TOTAL	420.00 420.00	None	16.66667	State ASRC*	67.65 32.35	11.275023 4.391677	Kuukpik Corp.* Kuukpik Corp.*	1.000000 APC	CPAI APC	78.000000 22.000000 <u>100.000000</u>

110	389725 932682	T13N,R4E-U.M. 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 TOTAL	220.00 220.00	None	16.667	State ASRC*	67.65 32.35	11.275226 4.391775	CPAI Kuukpik Corp.*	1.328100 1.000000	CPAI APC	77.620000 22.000000 <u>100.000000</u>
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111	389725 932682	T13N,R4E-U.M. 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 TOTAL	555.00 555.00	None	16.667	State ASRC*	60.52 39.48	10.086868 5.580132	CPAI Kuukpik Corp.*	1.328100 1.000000	CPAI APC	77.620000 22.000000 <u>100.000000</u>
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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 ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	Royalty (%)	Royalty (%)								
112	388527 932623	T13N,R4E-U.M. 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 TOTAL	85.00 85.00	None	16.66667	State ASRC*	60.52 39.48	10.086669 5.580001	A. James III Revocable Trust	8.333330	CPAI APC	78.000000 22.000000			
								15.66667	Kuukpkik Corp.*	1.000000		9.333330			
113	388527 932623	T13N,R4E-U.M. 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 TOTAL	43.00 43.00	None	16.66667	State ASRC*	57.35 42.65	9.558335 6.108335	A. James III Revocable Trust	8.333330	CPAI APC	78.000000 22.000000			
								15.66667	Kuukpkik Corp.*	1.000000		9.333330			
114	389725 932682	T13N,R4E-U.M. 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 TOTAL	196.00 196.00	None	16.667	State ASRC*	83.68 16.32	13.946946 1.720054	CPAI Kuukpkik Corp.*	1.328100	CPAI APC	77.620000 22.000000			
								15.667	Petro-Hunt	0.380000		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 (%)	Royalty Owners						
115	388527 932623	T11N14E-U.M. 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	444.00 444.00	None	16.66667	State ASRC*	83.68 16.32	13.946669 1.720001	A. James III Revocable Trust	8.333330	CPAI APC	78.000000 22.000000 100.000000	
		TOTAL						15.66667	Kuukpik Corp.*	1.000000 9.333330			

There are no Tracts 116-118

119	380081 932044	T11N15E-U.M. Sec. 28, Unsurveyed, All	640.00 640.00	None	16.667	State ASRC*	50.06 49.94	8.3435 7.3235	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000
		TOTAL						15.667				

120	ASRC NPRA 2 932128	T11N14E-U.M. Sec. 28, All Sec. 33, All Sec. 34, All	640.00 640.00 640.00	None	16.667	ASRC*	100.00	15.0003	Kuukpik Corp.*	1.666700	CPAI AEP	78.000000 22.000000 100.000000
		TOTAL	1,920.00									

121	388905 932357	T11N14E-U.M. Sec. 35, Unsurveyed, All, within NPR-A	286.63 286.63	None	Sliding Scale	State ASRC*	30.51 69.49	5.085001 **9.915002	Kuukpik Corp.*	**1.666667	CPAI APC	78.000000 22.000000 100.000000
		TOTAL						15.000003				

122	388902 932351	T11N14E-U.M. Sec. 35, Unsurveyed, All, excluding the NPR-A	353.37 353.37	None	16.667	State ASRC*	30.51 69.49	5.085102 10.581898	Kuukpik Corp.*	1.000000	CPAI APC	78.000000 22.000000 100.000000
		TOTAL						15.667				

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original				Net ORRI (%)	Tract Owners	Working Interest (%)	
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Ows.				Net Royalty
123	388902	T11N,R4E-U.M.		None	16.667		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		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
		TOTAL	640.00				15.667					100.000000
125	391587	T11N,R5E-U.M.		None	16.667		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					100.000000
There are no Tracts 126-130												
131	380044	T10N,R5E-U.M.		None	16.667		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		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		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				Net		Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners	
133	388902 932351	T10N, R4E, U.M. Sec. 2, Unsurveyed, All, excluding the NPR-A	87.63	None	16.667		State ASRC*	7.86 92.14	1.310026 14.356974	Kuukpik Corp.* APC	78.000000 22.000000
		TOTAL	87.63						15.667		100.000000

There are no Tracts 134 - 161

162	390344 933508	T12 N, R4E, U.M. 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	308.00 308.00	None	16.667	State ASRC*	76.19 23.81	12.698587 2.9684127	1.000000	Kuukpik Corp.* APC	78.000000 22.000000
		TOTAL						15.6670000			100.000000

163	390344 933508	T12 N, R4E, U.M. 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	531.00 531.00	None	16.667	State ASRC*	64.60 35.40	10.76688 4.90012	1.000000	Kuukpik Corp.* APC	78.000000 22.000000
		TOTAL						15.667000			100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original				Net		Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI 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 Lease Sale 43	448.00			ASRC*	30.37	4.06177			APC	22.000000
		TOTAL	448.00					15.667000				100.000000
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 Lease Sale 43	192.00			ASRC*	30.37	4.06177			APC	22.000000
		TOTAL	192.00					15.667000				100.000000
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 Lease Sale 75	109.00			ASRC*	35.40	4.90000			APC	22.000000
		TOTAL	109.00					15.66667				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 (%)	Royalty Owners						
167	390350	T12 N, R4E, U.M.		None	16.66667		State 76.19	12.69834	Kuukpiik 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									100.000000	
		TOTAL	1,157.00										

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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					
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	424.25									
		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	71.65									
		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	264.72									
		Section 31, Unsurveyed, All tide and submerged lands seaward of the line of mean high water	50.63									
		Section 32, Unsurveyed, All tide and submerged lands seaward of the line of mean high water	101.59									
		TOTAL	1,733.05									100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners			
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	320.00 320.00 476.33 640.00 454.20 43.11 22.86 2,276.50	None	16.66667	State	100.00	N/A	None	CPAI APC 100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original			Net ORRI (%)	Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners			
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 932126	T12N, R3E, U.M. Section 11: all excluding tide and submerged lands seaward of the line of mean high water Section 13: all excluding tide and submerged lands seaward of the line of mean high water Section 14: all excluding tide and submerged lands seaward of the line of mean high water Section 23 Section 24: All, excluding tide and submerged lands seaward of the line of mean high water TOTAL	178.72 184.11 624.00 640.00 625.00 2,251.83	None	12.50	ASRC* 100.00	10.500000	Kuukpik Corp.*	2.000000	CPAI AEP 100.000000
178	ASRC NPRA 2 932128	T12N, R4E, U.M. Section 19 (fractional): All, excluding tide and submerged lands seaward of the line of mean high water TOTAL	118.97 118.97	None	16.667	ASRC* 100.00	15.0000	Kuukpik Corp.*	1.667000	CPAI AEP 100.000000

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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 (%)
179	ASRC NPRA3 932671	T11N, R3E, U. M. Section 1, All Section 2, All Section 3, All Section 12, All Total	640.00 640.00 640.00 640.00 2,560.00	None	12.5	ASRC*	100.00	11.2500	Kuukpik Corp.*	1.25000	CPAI AEP	78.000000 22.000000 100.000000
180	ASRC NPRA4 932669	T11N, R4E, U.M. Section 6, All Section 17, All Section 18, All Section 29, All Section 32, All T10N, R4E, U.M. Section 3, All Section 4, All Section 5, All Total	593.45 640.00 598.58 640.00 640.00 640.00 640.00 640.00 640.00 5,032.03	None	16.667	ASRC*	100.00	15.00030	Kuukpik Corp.*	1.66670	CPAI AEP	78.000000 22.000000 100.000000
181	AA087888 307461	T11N, R3E, U. M. Section 10, All Section 14, All Total	640.00 640.00 1,280.00	None	16.6667	BLM	100.00	16.66667	None	None	CPAI	100.000000
181A	AA092347 340758	T11N, R3E, U. M. Section 11, All Section 13, All Total	640.00 640.00 1,280.00	None	16.6667	ASRC*	100.00	14.16667	Kuukpik Corp.*	2.50000	CPAI AEP	78.000000 22.000000 100.000000

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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	
182	AA081817	T11N, R4E, U.M.		None	16.66667	BLM	100.00	16.66667	None	None	100.000000
	932552	Section 31, All	605.00								
		T11N, R3E, U. M.									
		Section 23, All Section 26, All Section 36, All Total	640.00 640.00 640.00 2,525.00								
182A	AA092344	T11N, R4E, U.M.		None	16.66667	ASRC*	100.00	14.16667	Kuukpik Corp.*	2.50000	78.000000
	340757	Section 19, All	600.00								22.000000
		Section 20, All	640.00								100.000000
		Section 30, All	602.00								
		T11N, R3E, U. M.									
		Section 24, All Section 25, All Total	640.00 640.00 3,122.00								
183	390337	T10N, R4E, U.M.		None	Sliding	State	7.86	1.31000	Kuukpik Corp.*	1.66667	78.000000
	300618	Section 2, Surveyed by protraction, Lots 2 and 4	552.37		Scale	ASRC*	92.14	13.69000		APC	22.000000
		Total	552.37		16.66667**			15.00000			100.000000
			552.37								
184	390337	T10N, R4E, U.M.		None	Sliding	State	55.07	9.17834	Kuukpik Corp.*	1.66667	78.000000
	300618	Section 1, Surveyed, by protraction, Lot 4	53.57		Scale	ASRC*	44.93	5.82166		APC	22.000000
		Total	53.57		16.66667**			15.00000			100.000000

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Tr. No.	ADL No./ AK No.	Legal Description	Acres	Depth Restrictions	Original				Net		Tract Owners	Working Interest (%)
					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners		
185	390672 366717	T10N, R4E, U.M. Section 12, Surveyed, by protraction, Lots 1 and 2 and the bed and of the Nechelik Channel, 227.73 acres TOTAL	227.73 227.73	None	16.66667	State ASRC*	20.95 79.05	3.491667 12.175003 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
186	390675 366720	T10N, R5E, UM Section 7, Surveyed, by protraction, Fractional, Lots 1 and 2 and the beds of the Nechelik Channel and the unnamed waterbody, 606.46 acres TOTAL	606.46 606.46	None	16.66667	State ASRC*	51.10 48.90	8.516668 7.150002 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
187	391915 366725	T10N, R5E, UM Section 8, Surveyed, by protraction, All including the beds of the Nechelik Channel and the unnamed waterbody, 640.00 acres TOTAL	640.00 640.00	None	16.66667	State ASRC*	50.52 49.48	8.420002 7.246668 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
188	390674 366719	T10N, R5E UM Section 9, Surveyed, by protraction, All including the beds of the unnamed waterbodies, 640.00 acres TOTAL	640.00 640.00	None	16.66667	State ASRC*	50.00 50.00	8.333335 7.333335 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000

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					Royalty (%)	NPSL (%)	Royalty Owners	Mineral Owns.	Net Royalty	ORRI Owners		ORRI (%)	Tract Owners
189	391914	T10N, R5E, UM		None	16.66667		State	78.22	13.036669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366724	Section 10, Surveyed, by protraction, All including the beds of the Colville River and the unnamed waterbodies	640.00				ASRC*	21.78	2.630001	Kuukpik Corp.***	0.500000	APC	22.000000
		640.00 acres	640.00						15.666670	ALASKA ORRI	2.783330		100.000000
		TOTAL	640.00							BRPC	0.050000		
											4.333330		
190	390676	T10N, R5E, UM		None	16.66667		State	82.00	13.666669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366721	Section 15, Surveyed, by protraction, All including the beds of the Colville River and the unnamed waterbody,	640.00				ASRC*	18.00	2.000001	Kuukpik Corp.***	0.500000	APC	22.000000
		640.00 acres	640.00						15.666670	ALASKA ORRI	2.783330		100.000000
		TOTAL	640.00							BRPC	0.050000		
											4.333330		
191	391015	T10N, R5E, UM		None	16.66667		State	58.57	9.761669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366730	Section 16, Surveyed, by protraction All excluding U.S. Survey 9121, 580.32 acres; Special Surveys U.S. Survey 9121, that portion within Section 16, 59.68 acres; Tract 191 contains 640.00 acres, more or less.	640.00				ASRC*	41.43	5.905001	Kuukpik Corp.***	0.500000	APC	22.000000
		640.00 acres, more or less.	640.00						15.666670	ALASKA ORRI	2.783330		100.000000
		TOTAL	640.00							BRPC	0.050000		
											4.333330		

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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					
192	391016 366731	T10N, R5E, UM Section 17, Surveyed, by protraction. Lots 1, 2, and 3 and the bed of the Nechelik Channel of the Colville River, 342.76 acres; Special Surveys U.S. Survey 9121, that portion within Section 17, 20.30 acres; Tract 192 contains 363.06 acres, more or less	363.06 363.06	None	16.66667	State ASRC*	20.57 79.43	3.428334 12.238336 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
		TOTAL							BRPC	0.050000 4.333330		
193	390677 366722	T10N, R5E, UM Section 18, Surveyed, by protraction, Fractional, Lots 1 and 2 and the bed of the Nechelik Channel, 383.34 acres	383.34	None	16.66667	State ASRC*	34.87 65.13	5.811668 9.855002 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
		TOTAL	383.34						BRPC	0.050000 4.333330		
194	391536 366628	T10N, R5E, UM Section 7, Surveyed by protraction, Lot 3, 5.53 acres	5.53	None	16.66667	State ASRC*	51.10 48.90	8.516668 6.483335 15.000003	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
		TOTAL	5.53						BRPC	0.050000 4.333330		
195	390673 366718	T10N, R4E, UM Section 13, Surveyed, by protraction, Lot 1 and the bed of the Nechelik Channel, 24.14 acres	24.14	None	16.66667	State ASRC*	5.55 94.45	0.925000 14.741670 15.666670	Kuukpik Corp.* Kuukpik Corp.*** ALASKA ORRI	1.000000 0.500000 2.783330	CPAI APC	78.000000 22.000000 100.000000
		TOTAL	24.14						BRPC	0.050000 4.333330		

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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					
196	391535 366627	T10N, R4E, Tract A, UM Section 13, Surveyed, by protraction, Lot 2, 615.86 acres	615.86 615.86	None	16.66667	State ASRC*	5.55 94.45	0.925000 14.075003	Kuukpik Corp.* Kuukpik Corp.***	1.000000 0.500000	CPAI APC	78.000000 22.000000
		TOTAL						15.000003	ALASKA ORRI BRPC	2.783330 0.050000		100.000000 4.333330
197	391922 366631	T10N, R5E, UM Section 18, Surveyed by protraction, Lot 3, 231.32 acres	231.32 231.32	None	16.66667	State ASRC*	34.87 65.13	5.811668 9.188335	Kuukpik Corp.* Kuukpik Corp.***	1.000000 0.500000	CPAI APC	78.000000 22.000000
		TOTAL						15.000003	ALASKA ORRI BRPC	2.783330 0.050000		100.000000 4.333330
198	391537 366629	T10N, R5E, UM Section 17, Surveyed, by protraction, Lot 4, 276.94 acres	276.94 276.94	None	16.66667	State ASRC*	20.57 79.43	3.428334 11.571669	Kuukpik Corp.* Kuukpik Corp.***	1.000000 0.500000	CPAI APC	78.000000 22.000000
		TOTAL						15.000003	ALASKA ORRI BRPC	2.783330 0.050000		100.000000 4.333330
199	391923 366632	T10N, R5E, UM Section 20, Surveyed by protraction, Lots 2, 4 and 5 and the beds of all meanderable waterbodies within the National Petroleum Reserve-Alaska, 409.55 acres	409.55 409.55	None	16.66667	State ASRC*	16.46 83.54	2.743334 12.256669	Kuukpik Corp.* Kuukpik Corp.***	1.000000 0.500000	CPAI APC	78.000000 22.000000
		TOTAL						15.000003	ALASKA ORRI BRPC	2.783330 0.050000		100.000000 4.333330

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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					
200	391918	T10N, R5E, UM		None	16.66667	State	16.46	2.743334	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366728	Section 20, Surveyed by protraction, Fractional, Lots 1 and 3 and the bed of the Nechelik Channel, 242.67 acres	242.67			ASRC*	83.54	12.923336	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	242.67					15.666670	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		
201	391917	T10N, R5E, UM		None	16.66667	State	56.38	9.396669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366727	Section 21, Surveyed, by protraction, All including the bed of the Colville River and the Nechelik Channel, 640.00 acres	640.00			ASRC*	43.62	6.270001	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	640.00					15.666670	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		
202	391916	T10N, R5E, UM		None	16.66667	State	73.39	12.231669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366726	Section 22, Surveyed, by protraction, All including the bed of the Colville River, 640.00 acres	640.00			ASRC*	26.61	3.435001	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	640.00					15.666670	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		
203	391919	T10N, R5E, UM		None	16.66667	State	78.58	13.096669	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366729	Section 28, Surveyed, by protraction, All including the bed of the Colville River, 640.00 acres	640.00			ASRC*	21.42	2.570001	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	640.00					15.666670	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		
204	390679	T10N, R5E, UM		None	16.66667	State	46.12	7.686668	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366723	Section 29, Surveyed, by protraction, Fractional, Lot 1 and that portion of the Colville River within the NE 1/4 and S 1/2, 436.40 acres	436.40			ASRC*	53.88	7.980002	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	436.40					15.666670	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		

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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					
205	391538	T10N, R5E, UM		None	16.66667	State	46.12	7.686668	Kuukpik Corp.*	1.000000	CPAI	78.000000
	366630	Section 29, Surveyed by protraction, Lots 2 through 4 and the beds of all meanderable waterbodies, including the portion of the Colville River lying within the NW 1/4, 203.60 acres	203.60			ASRC*	53.88	7.313335	Kuukpik Corp.***	0.500000	APC	22.000000
		TOTAL	203.60					15.000003	ALASKA ORRI	2.783330		100.000000
									BRPC	0.050000		
										4.333330		
206	AA094165	T11N, R3E, U.M.		None	16.6667	BLM	100.00	16.66667	None	None	CPAI	100.000000
	366606	Section 22, All	640.00									
		Section 27, All	640.00									
		Section 34, All	640.00									
		Section 35, All	640.00									
		Total	2,560.00									
207	AA094167	T10N, R3E, U.M.		None	16.6667	BLM	100.00	16.66667	None	None	CPAI	100.000000
	366608	Section 1, All	638.00									
		Section 2, All	639.00									
		Section 3, All	639.00									
		Total	1,916.00									
208	AA092675	T10N, R4E, U.M.		None	16.66667	BLM	100.00	16.66667	None	None	CPAI	100.000000
	341734	Section 6, All	609.00									
		Total	609.00									
209	AA084140	T12N, R4E, U.M.		None	16.66667	BLM	100.00	16.66667	None	None	CPAI	100.000000
	933472	U.S.SURVEY 9502, LOTS 1 and 2.	239.93									
		Total	239.93									

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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 (%)	Tract Owners
210	391773	T10N, R4E, U.M.		None	16.66667		State	20.95	3,491.67	Kuukpik Corp.*	1.66667	CPAI	78.000000
	342612	Section 12: Surveyed By Protraction, Lot 3	412.27				ASRC*	79.05	13,175.00			APC	22.000000
		Total	412.27						16,666.67				100.000000
TOTAL UNIT ACREAGE									131,871.49				

* Kuukpik Corp. Overriding Royalty deducted from ASRC Royalty as agreed between Kuukpik Corp. and ASRC for surface access.

** This lease has a sliding scale 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 x 0.20 = 0.02) on 8/8ths of production, the State would receive 10% royalty on 8/8ths of production (0.50 x 0.20 = 0.10), and ASRC would receive 8% royalty on 8/8ths of production [(0.50 x 0.20) - (0.10 x 0.20) = 0.08].

*** The 0.5% overriding royalty interest was created via several Assignment and Conveyance documents dated December 1, 2017 from Alaska ORRI and BRPC to Kuukpik Corp. The 0.5% overriding royalty interest is owned separate from and in addition to the overriding royalty deducted from ASRC Royalty as agreed between Kuukpik Corp. and ASRC for surface access.

KEY:

- ALASKA ORRI: ALASKA ORRI, LLC
- APC: Anadarko Petroleum Corporation
- AEP: Anadarko E&P Onshore LLC
- ASRC: Arctic Slope Regional Corporation
- 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

Application for 8th Expansion of the Colville River Unit
 April 25, 2018

