

FINDINGS AND DECISION

of the Director, Division of Oil and Gas

APPROVING THE
KITCHEN UNIT APPLICATION

Under Delegation of Authority from the
Commissioner, Department of Natural Resources, State of Alaska

January 31, 2007

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- Attachments:
1. KHU Exhibit A, Tract Description and Ownership Schedule
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INTRODUCTION AND BACKGROUND

Escopeta Oil Company, LLC (EOC), submitted a unit application (Application) to the Alaska Department of Natural Resources (DNR), Division of Oil and Gas (Division), to form the Kitchen Unit (KHU) on December 11, 2006. The Division found the Application complete on December 13, 2006.

EOC proposes to include 18 leases, 15 of which are 75 percent owned by EOC and 25 percent owned by Taylor Minerals, LLC (TLM), one of which is 100 percent owned by EOC, and the two remaining leases, ADL 389923 and ADL 389507, are 100 percent owned by Forest Alaska Operating LLC (FAO). The Division is excluding the FAO leases from the proposed unit as a part of this decision. The leases in the approved unit, and their corresponding lease numbers, acreages, state royalty interests, lease effective dates, lease form, ownership, and current lease expiration dates are shown below in Table 1.

Table 1

KITCHEN LEASE DATA

ADL	Acres	State Royalty Interest %	Lease Effective Date	Lease Form Issued on	Working Interest Owners and Percent	Royalty Owners and Percent excluding state	Lease Expiration Date
						(Overrides)	
389926	5,760	12.5	1/1/2002	DOG 200004	EOC 75% TLM 25%	17.5	12/31/2008
390548	3,193	12.5	6/1/2005	DOG 200204 (Rev 10/03)	"	17.5	5/31/2012
389925	3786	12.5	1/1/2002	DOG 200004	"	17.5	12/31/2008
389924	5,020	12.5	"	"	"	17.5	12/31/2008
389190	2,560	12.5	2/1/2000	DOG9609 (Rev 9/99)	"	17.5	1/31/2007
389193	2,560	12.5	"	"	"	17.5	1/31/2007
389192	2,560	12.5	"	"	"	17.5	1/31/2007
389189	1,920	12.5	"	"	"	17.5	1/31/2007
389918	3,840	12.5	1/1/2002	DOG 200004	"	17.5	12/31/2008
390554	2536	12.5	6/1/2005	DOG 200204 Rev 10/03)	"	17.5	5/31/2012
389191	1,920	12.5	2/1/2000	DOG 9609 (Rev 9/99)	"	17.5	1/31/2007
389917	1890	12.5	1/1/2002	DOG 200004	"	17.5	12/31/2008
389914	634	12.5	1/1/2002	DOG 200004	"	17.5	12/31/2008
389919	640	12.5	"	DOG 200004	"	17.5	12/31/2008
391106	1,280	12.5	1/1/2007	DOG 200604	EOC 100%	12.5	12/31/2012
389915	634	12.5	1/1/2002	DOG 200004	EOC 75% TLM 25%	17.5	12/31/2008

The acreages in Exhibit A proposed by EOC for inclusion in the KHU within sections of ADLs 389914, 389915, and 389917 are inconsistent with Division computer protracted values; however, are consistent with the lease legal description. The correct acreages for these leases are listed in Table 1. The Division computer protracted values are correct and the lease legal descriptions are incorrect. EOC shall provide a revised Exhibit A within 30 days of this decision reflecting the correct acreages for sections of ADLs 389914, 389915, and 389917 proposed for inclusion in the KHU. The Division will correct the lease legal description acreages.

The proposed KHU severs ADLs 389924, 389189, 390548, 389925, 389914, 389915, 389917, 389918, 389919, and 391106 to conform the KHU boundary to the known reservoir boundary based on currently available geologic, geophysical, and engineering (G&G) data. All acreage severed from existing leases, as a part of this decision, continues under the terms and conditions set out in the leases.

The Division issued ADLs 389189, 389190, 389191, 389192, and 389193 on lease form DOG 9609 (Rev 9/99). EOC agreed with the Division to replace paragraph 36(b) in the DOG 9609 (Rev 9/99) lease form with paragraph 36(b) from the current lease form DOG 200604. Paragraph 36(b) from the current lease form DOG 200604, states the following:

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

This change provides a consistent field price transportation deduction under the lease forms included in this unit.

The Division will administer the KHU under state regulations, the terms expressed in this Findings and Decision document, and the KHU Agreement (Agreement).

EOC is the designated unit operator. EOC is qualified to act as unit operator under 11 AAC 83.331 because EOC is qualified to hold a lease and is willing to assume the obligations under the Agreement.

APPLICATION FOR THE FORMATION OF THE KITCHENS UNIT

EOC submitted the Application to form the KHU and paid the \$5,000 unit application filing fee on December 11, 2006. The Application included: the proposed Agreement; Exhibit A to the Agreement, legally describing the KHU, its leases, and ownership interests; Exhibit B to the Agreement, a map of the KHU; Exhibit G to the Agreement, the proposed plan of exploration (initial POE); and a Unit Operating Agreement between the working interest owners (WIOs). The Agreement, which uses the State Only Model Form, dated June 2002, with modifications,

will conform and modify 16 individual State of Alaska oil and gas leases so that unit operations can be conducted on a unit basis instead of on a lease basis.

11 AAC 83.306 requires a completed application to include a Unit Operating Agreement executed by the WIOs. The Application, which was deemed complete by the Division, included a Unit Operating Agreement executed by EOC and TLM and confirmation from EOC that FAO had been invited to join the KHU.

In correspondence from EOC to the Division dated December 20, 2006, and included as Attachment 6, EOC indicated the FAO leases, ADL 389923 and ADL 389507, were mistakenly included in the Application and that EOC does not consent to the inclusion of any of FAO's acreage in the KHU. EOC submitted revised Exhibits A and B to amend the Application on December 20, 2006 to remove the FAO leases from the Application. The Division notified EOC that a decision on the amended application could not be issued before January 31, 2007, when five of the leases proposed for inclusion in the unit would expire. Because public notice, comment, and review periods were required for the amendment and there was not adequate time to re-notice EOC's proposed amendment to the Application, the FAO leases were considered as part of the Application. The Division excluded them from the KHU for the reasons discussed below.

The Division cannot accommodate amendments late in the Application process, especially when the underlying Application is submitted late. 11 AAC 83.311 provides for a 10-day public notice preparation period, and a 30-day public comment period. Under 11 AAC 83.316 the Division has 60 days after the close of the public comment period to issue a decision. The Application was filed on December 11, 2006, the public notice was issued on December 14, 2006, and the public comment period ended January 18, 2007, leaving 14 days after the close of the public comment period for Application processing. Because of these regulatory timelines, applicants risk denial of an application and resulting lease expiration if they fail to submit an application at least 90 days before the leases proposed for inclusion in the unit will expire.

The Division published Application notices in the *Anchorage Daily News* and in the *Mat-Su Valley Frontiersman*. The Division also posted notices on the state's online public notice Web page, DNR's public notices page, and the Division's Web page. The Division provided copies of the public notice to the Mat-Su Borough Assembly and mayor; Mat-Su Borough Planning Department; Mat-Su Borough Port Commission; Mat-Su Resource Conservation and Development; Wasilla City Clerk; mayor and City Council; CIRI, Tyonek Village Corporation; the Native Village of Tyonek; Knik Tribal Council; Knikatnu Inc.; Alexander Creek, Inc.; Friends of Old Knik; Knik-Fairview Community Council; and other interested parties in compliance with 11 AAC 83.311. The Division also provided public notices to the Alaska Department of Environmental Conservation; the Alaska Department of Fish and Game; Department of Natural Resources, Southcentral Regional Office of the Division of Mining, Land and Water; the Department of Natural Resources; Office of Habitat Management and Permitting Southcentral Area Office; Mat-Su State Parks Citizen Advisory Board; and to post offices, libraries, print media, public television, and radio stations in the area. The notice invited interested parties and members of the public to submit comments by January 18, 2007.

In addition to correspondence from EOC, referenced and discussed in this decision, the Division received public comments on the Application as follows.

Jerome Dodge of Kenai, owner/operator of Inlet Drilling Alaska Inc., requested that the State allow creation of the Kitchen Unit to benefit the economy of Alaska and particularly the economy of the Kenai area by enabling more local oil and gas development.

Curtis Breckon, petroleum geoscientist from Skiatook, Okla., that indicated he is familiar with the geology of Cook Inlet and asserted that “the creation of the Kitchen Unit, in the area proposed by Escopeta Oil Company LLC is necessary to develop, conserve, and enhance the petroleum resources of Cook Inlet.”

The Division received the following public comments on January 19, 2007 and on January 22, 2007, both after the close of the public comment period:

Jack Focose, general manager of Atigun Inc., indicated he has lived and worked in the Cook Inlet area for 30 years and that creation of the KHU in the area proposed by EOC is “very necessary to develop and enhance the petroleum resources of Cook Inlet.”

Judene Van Cleave of the Nikiski Chamber of Commerce indicated that the “Nikiski Chamber of Commerce feels that this project (Kitchen Unit) is necessary to develop, conserve and enhance petroleum resources of Cook Inlet which are in decline. It is crucial to seek additional reserves. Escopeta’s efforts to bring a jack-up rig to Cook Inlet will help extend the life of Cook Inlet production and provide long-term jobs and business opportunities in the region.”

In addition, FAO provided comments neither supporting nor opposing unitization, and neither supporting nor opposing inclusion of its two leases in the KHU.

DISCUSSION OF DECISION CRITERIA

AS 38.05.180(p) gives DNR the authority to approve a unit when necessary or advisable in the public interest to conserve the natural resources of all or a part of an oil or gas pool, field, or like area. The DNR commissioner (Commissioner) reviews unit applications under 11 AAC 83.301 – 11 AAC 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 (Director).

The Director will approve a unit application upon finding that it will: 1) promote the conservation of all natural resources; 2) promote the prevention of economic and physical waste; and 3) provide for the protection of all parties of interest, including the state in accordance with 11 AAC 83.303(a). 11 AAC 83.303(b) sets out six factors that the Director will consider in evaluating a unit application. A discussion of the subsection .303(b) criteria, as they apply to the Application, is set out below, followed by the Director’s findings under subsection .303(a), and the Director’s conditional approval of the Application.

1. The Environmental Costs and Benefits of Unitization

The administrative approval of the KHU has no environmental impact itself because it does not authorize the unit operator to conduct operations within the unit. Unitization does not waive or reduce the effectiveness of the mitigation measures that condition the lessee's right to conduct operations on these leases. The Division's approval of the KHU and initial POE is only one step in the process of obtaining permission to drill wells and develop any reservoirs within the unit area.

The unit operator shall obtain approval of a unit plan of operations before conducting exploration, development, or production activities. Plans of operations must describe the operating procedures designed to prevent or minimize adverse effects on natural resources and must identify the sites for planned activities and the specific measures, design criteria, construction methods and operational standards to be employed. It must also address any potential geophysical hazards that may exist at the site. The plan of operations application undergoes a multi-agency review under the Alaska Coastal Management Program (ACMP). This process includes public notice and opportunities for comment under ACMP-enforceable policies (11 ACC 110.510). The Division also invites comments specific to a unit plan of operations application during the ACMP review comment period. In the case of the KHU and in response to a public request, a public notice will also be issued to announce that EOC has applied for a plan of operations.

The Division develops mitigation measures for Cook Inlet in the context of its lease sales. The leases included in the KHU by this decision contain mitigation measures, stipulations, and advisories designed at the time of the lease sale to protect the environment. But, under 11 AAC 83.303(b)(6), and as a condition of creating this unit, the Division will apply the most recent mitigation measures to all operations, regardless of when the lease was issued. It is in the public interest to apply the most current knowledge about what measures are necessary to protect the environment to operations in the KHU.

When the operator proposes to further explore and develop the unit area, with any increase in the approved footprint or any other significant modification in operations, it must submit a new unit plan of operations. The plan of operations application, review, and approval process therefore ensures that environmental impacts of initial and future developments will be addressed under the regulatory process.

The environmental impact of unit operations will depend on the level of development activity, the effectiveness of mitigation measures, and the availability of alternative habitat and subsistence resources. Unitization consolidates exploration, development and production activities so that a group of leases can be explored, developed, and produced as one, thereby lessening the impact on the environment, habitat, and subsistence activity in comparison to development on an individual lease basis. The environmental costs and benefits of unitizing the leases justify approval of the Application under the section .303(b)(1) criteria.

2. The Geological and Engineering Characteristics of the Reservoir or Potential Accumulation and Prior Exploration Activities in the Unit Area

Introduction

The Kitchen and East Kitchen Prospects are located in the middle of Cook Inlet to the west of East Forelands and due east of the Middle Ground Shoal field. The prospects lie on trend with the North Cook Inlet gas field approximately 16 miles to the northeast and the Cannery Loop and Kenai gas fields to the south. Water depths are generally less than 100 feet over the structures. EOC provided the Division with some geologic and geophysical data to support the evaluation of both Kitchen prospects. The geological data consisted of a structural contour map of the upper Tyonek horizon, paper copies of SP and Resistivity wireline logs from two wells north of the proposed unit, the Shell SRS State #1 and #2 wells, and an idealized cross section through the prospects. EOC did not provide any maps for the shallower Sterling or Beluga horizons. The geophysical data EOC consisted of eight interpreted paper seismic lines (four strike and four dip lines) for East Kitchen and six interpreted paper seismic lines (all dip lines) for Kitchen. EOC reprocessed three of the seismic lines using wavelet energy absorption (WEA) techniques for both the East Kitchen and Kitchen Prospects.

History of Oil and Gas Exploration

The modern era of Cook Inlet exploration began in 1955 when Richfield Oil Corp. embarked on a drilling program centered around Swanson River on the Kenai Peninsula. In July, 1957 the company discovered oil in the Swanson River Unit #1 well, drilled to a depth of 11,000 feet. It tested oil at 900 bpd from the Tertiary Hemlock Conglomerate, with reserves estimated at 250 mmbbl (million barrels). In October, 1959 Union Oil Co. of California and Ohio Oil Co. discovered the Kenai gas field on the Kenai Peninsula. It is the largest natural gas discovery in the basin, estimated at 2.4 tcf (trillion cubic feet). Production began the following year and continues today. In 1962, Pan American Petroleum Corp. discovered the Middle Ground Shoal oil field, the first offshore discovery in the Cook Inlet Basin. The first offshore production platform (Shell Platform A) was installed on this field by Shell in 1964 to develop the Middle Ground Shoal oil field. In 1965, Unocal discovered the McArthur River field, the basin's largest oil field estimated at 1.5 Bbbl. Additional oil discoveries were made by Unocal at Trading Bay and Mobil Oil at Granite Point to the north. Extensive exploration continued over the next several years resulting in peak oil production of 82 mmbbl in 1970 and peak gas production of 223 bcf in 1996.

As of September, 2006 a total of 1,155 (526 onshore, 629 offshore) wells have been drilled in the Cook Inlet Basin, the majority of which were drilled from 1958-1970. From these wells, 14 offshore discoveries were made in addition to Swanson River and the Kenai gas field. All the major oil fields that exist today were drilled between 1962 and 1965, and 14 of the 16 existing offshore production platforms were installed between 1966 and 1969. From the period of peak activity, oil production has declined steadily to around 7mmbbl in 2005 and gas production has leveled out at 203 bcf.

In Cook Inlet there are six exploration wells useful for evaluating the Kitchen and East Kitchen prospects: Shell SRS State #1, Shell SRS State #2, Phillips Tern A-1, Arco South Cook Inlet State #2, Arco South Cook Inlet State #3, and East Middle Ground Shoal State 18751 #1. The Tern A-1 well was drilled to test gas in the Sterling and Beluga formations, while the other five were drilled to test for oil potential in the Tyonek and Hemlock formations. The East Middle Ground Shoal State 18751 #1 also tested for gas in the Middle Ground Shoal Sands.

The Shell SRS #1 was the first area well drilled in 1962 to a total depth of 16,375 feet MD. The well was drilled on the crest of an anticline, informally termed the SRS anticline, and is the structurally highest well in the area. Gas shows were recorded in the Sterling and Beluga intervals and four DST's were conducted in the Tyonek, Hemlock and West Foreland formations. DST #4 in the Tyonek (13,055-13,270 feet MD) produced 489 barrels of 36.8-44.2 degrees API oil with 3-10 percent water cut over a period of 34 hours. The equivalent rate was about 340 BOPD. DST #3 in the Tyonek (13,410-13,585 feet MD) produced 45 barrels gas cut and oily mud along with 181 barrels of slightly gas cut and oily water with 13000 parts per million (ppm) NaCl equivalent salinity. DST #2 in the Hemlock, from 15,410-15,665 feet MD, produced 107 barrels water (13000 ppm NaCl equivalent salinity) during a 20 hour flow period. DST #1A in the West Foreland formation (16,021-16,082 feet MD) produced 70 barrels water with equivalent salinity 14700 ppm.

Shell drilled the SRS #2 well in 1965 to a total depth of 15,403 feet MD on the southwestern nose of the structure. Minor gas shows were noted in the Sterling and Beluga and minor oil shows were encountered in the deeper section, but no tests were conducted.

Pan American Petroleum Corporation drilled the East Middle Ground Shoal State 18751 #1 in 1966 to test the Middle Ground Shoal and Hemlock Formations west of the Kitchen prospect. Four of five DST attempts were successful. DST #1, #2 and #3 tested portions of the Hemlock at depths of 13,584-13,901 feet MD, 13,584-14,634 feet MD and 13950-14105 feet MD respectively. The first two DSTs were in open hole and overlapped. DST #3 was done in 5" liner perforated at 13,950-13,980 feet MD and 14,075-14,105 feet MD also within the levels tested by DST #1 and #2. Recovery from the intervals consisted of mud, gas cut mud and gas cut muddy water. No oil was noted on any Hemlock test. Inflow during DST #2 indicated a rate of 140 BPD of water cut mud and muddy water. DST #4 in the MGS sand recovered 205 barrels 80% water and 20% gas cut mud and gas cut muddy water. Liquid hydrocarbons were not noted on the test summary. DST #5 in the MGS sand was aborted after a packer failure.

In 1982 Phillips Petroleum drilled the Tern A-1 well on the northeastern nose of the SRS anticline to test for gas in the Sterling and Beluga formations. Seven DST's were run with one producing gas at uneconomic rates. DST #2 in the Beluga Formation (5,868-6,256 feet MD) produced gas at rates between 350-540 mcf/d at 50 psi during a 16.2 hour test. A second test produced gas with water; however, sand production prevented separator measurements. DST #4 in the Beluga Formation (5,592-5,602 feet MD) produced gas and water. Sand production prevented separator measurements. The interval was treated with mud acid and recovered gas and water, but sand production again prevented measurements. DST #7 in the Sterling Formation produced water into the tubing (none to surface). DST's 1, 3, 5 and 6 failed mechanically or tools plugged and provided no information.

More than a decade later, Arco Alaska Inc. embarked on a multi-well program to evaluate the oil potential of the Tyonek and Hemlock formations in both the SRS anticline and the more northern North Cook Inlet anticline, the two separated by a structural saddle. The South Cook Inlet State #3 was drilled in 1993 to a total depth of 16,000 feet MD on the southwestern nose of the SRS anticline. Gas and oil shows were poor and the one DST recovered 1,896 barrels water with 15-30 percent solids and trace oil during a 29 hour test. The equivalent rate was about 1,570 BWPD.

The South Cook Inlet State #2 well was drilled later that year on the northeastern nose of the structure to a total depth of 15,189 feet MD. Significant gas shows were noted at several horizons while drilling. Six DST's were run with only minor production of oil. DST #1 tested the Tyonek Middle North Foreland sand from 14,752-14,780 feet MD and recovered less than four barrels brine during a 6.3 hour test. DST #2 in the Tyonek-Upper North Foreland sand at 14,563-14,780 feet MD (included interval from DST #1) and recovered 66.5 barrels including brine, mud cut water with oil stain during a 50 hour test. DST #3 tested the Tyonek - Lower Sunfish sand from 14,300-14,400 feet MD for six days and recovered 162 barrels, 90 percent water and about 10 percent 36.5 degree API oil. The interval was nitrogen lifted to enable recovery of formation fluids. DST #4 tested the Tyonek Formation-Upper Sunfish sand from 14,210-14,235 feet MD and recover less than two barrels of brine during 9.3 hours. DST #5 recovered less than eight barrels brine during a nine hour period from the Upper Sunfish sand at 13,988-14,025 feet MD.

The results of the drill stem tests from these wells suggest both the Sterling-Beluga and Tyonek horizons are capable of producing fluids in significant quantities. The nature of the fluids (hydrocarbons versus water) will depend on the existence of appropriate traps. The initial POE will enable EOC to ascertain the nature of the fluids.

Regional Tectonic Setting and Structural Geology

The Cook Inlet Basin is an elongate, northeast-southwest trending, fault-bounded forearc basin that extends from the Matanuska Valley southward along the Alaska Peninsula. It formed in response to the northward migration of the Kula and Pacific tectonic plates and subduction beneath the southern Alaska margin of the North American plate. Subduction of the oceanic plates resulted in the formation of the Alaska continental margin consisting of accretionary complex, magmatic arc and forearc basin. Underthrusting and offscraping of deep sea sediments at the inner wall of the oceanic trench resulted in an accretionary wedge bordering the southeast side of the forearc basin. Crustal melting associated with the subducting plates created a magmatic arc along the western and northern basin margin. The basin is filled with Mesozoic and Tertiary sediments deposited in the arc-trench gap and is bounded by major faults. The Bruin Bay and Castle Mountains faults delineate the northern and northwestern boundaries and separate the volcanic arc complex from the basin fill. The Border Ranges fault forms the southern and southeastern boundaries and separates the accretionary prism from the continental crust that underlies the basin. Motion along these faults has resulted in extensive local deformation resulting in a series of anticlines and related structures that form structural traps for hydrocarbon accumulations. The East Kitchen Prospect as mapped by EOC consists of the

southwestern nose of an asymmetric, doubly plunging anticline with more steeply dipping western limb. It is located south of North Cook Inlet anticline and east of Middle Ground Shoal anticline, both of which are basement-involved fault propagation folds that have successfully trapped hydrocarbons. The Kitchen Prospect as mapped by EOC is formed by the up dip displacement of Tertiary strata against north-south trending thrust faults. Similar thrust faults form the western boundaries of the Middle Ground Shoal and Granite Point fields.

Depositional Systems and Stratigraphic Framework

The upper Cook Inlet basin contains predominantly Tertiary (Paleocene to Pliocene) non-marine sediments of the Kenai Group that are composed of conglomerates near the base and are overlain by and interfinger with fluvial facies. The section contains numerous local and regional unconformities. The Kenai Group is divided into five formations (from oldest to youngest): West Foreland, Hemlock, Tyonek, Beluga and Sterling. The West Foreland Formation is Eocene in age and consists of tuffaceous sandstones and conglomerates of poor reservoir quality. The Oligocene Hemlock Formation consists of clean, porous sandstone and conglomerate with good reservoir quality that form proven oil reservoirs in many parts of the basin. The overlying Tyonek formation consists largely of siltstone, sandstone and coals of Oligocene to Middle Miocene age. It has been the target of considerable oil and gas exploration in Cook Inlet. The source of oil present in the Hemlock and Tyonek formations is believed to be marine strata of Middle Jurassic age. The Beluga Formation, Middle to Late Miocene age, contains siltstone and thin, muddy sandstone layers that are interbedded with abundant thin coals. The Sterling Formation ranges in age from Latest Miocene to Pliocene and consists largely of stacked porous sandstones with blocky log signatures. Coals are thinner and less abundant than in the underlying Beluga Formation. The Sterling and Beluga formations are the major gas reservoirs in the nearby North Cook Inlet (12 miles northeast) and Beluga fields (18 miles north) and are the primary targets in the Kitchen and East Kitchen Prospects. The gas is believed to be of biogenic origin derived from Tertiary coals and organic siltstones.

The Tertiary clastic sediments described above were deposited into the Cook Inlet Basin as two major non-marine depositional systems consisting of alluvial-fan and axial-fluvial systems. Alluvial-fan systems occur along the margins of the basin and were sourced from adjacent highlands created by the basin-bounding faults. The fans are conical, lobate deposits of predominantly coarse-grained sediments emplaced by water and gravity-induced density flows. Migrating axial-fluvial systems occupy the central portion of the basin and interfinger with the fans towards the basin margin. These fluvial systems result in the thick accumulation of sandstone, siltstone and coal in the basin center. The sedimentary accumulations of these two systems are regionally time transgressive and represent laterally equivalent facies deposited across the basin. The Kitchen and East Kitchen Prospects lie in the center of the basin and consist mainly of the axial-fluvial facies.

The present day thickness of the Tertiary strata varies along the axis of the basin. The deepest part of the basin is located in the northwest corner of the Kenai Peninsula (12 miles southeast of the Kitchen Prospects) where 25,000 feet of Tertiary non-marine sediments overlie a thick sequence of marine Mesozoic sediments. Tertiary strata thin to the south to less than 1500 feet over the Seldovia Arch located 100 miles south of the Kitchen and East Kitchen Prospects.

East Kitchen Prospect

The East Kitchen Prospect identified by Applicant lies on the southwestern nose of the NNE-SSW trending doubly plunging SRS anticline originally penetrated by the Shell SRS State #1 well in 1962. The SRS anticline is approximately 2.5 miles wide and 9 miles long and plunges to the north-northeast and south-southwest. It lies on trend with the North Cook Inlet gas field to the north and the Cannery Loop and Kenai gas fields to the south. The southwestern nose of the structure that forms the prospect is located in the middle of Cook Inlet approximately 16 miles southwest of the ConocoPhillips Tyonek platform and six miles northeast of Port Nikiski. Water depths average 70 feet over the structure. The SRS anticline is asymmetric with steep dips on the western limb and shallow dips of generally less than 15 degrees on the east. The Sterling and Beluga sands are the primary targets for gas; oil is the primary objective in the lower Tertiary section. EOC provided one seismic line that was interpreted to show four-way closure at unspecified shallow depths. At depths below -10,000 feet subsea three-way closure is mapped. Their structure map of the Near Top Tyonek drawn with a 500' contour interval, however, does not show structural roll over (closure to the north). If, indeed, there is structural roll over to the north, the closure must be less than 500' (the mapped contour interval). Closure to the north also depends on a mapped normal fault with up to 500 feet of throw trending east-west separating this prospect from the crest of the SRS anticline. EOC mapped this prospect using eight seismic lines that cover only a portion of the area. Although the seismic data submitted for this area does show indications of faulting on the far eastern side of the prospect, there is no evidence that the north bounding fault exists. Division in-house seismic data contradicts EOC's interpretation that the proposed structural roll over and north bounding fault exist as mapped. The Applicant fails to supply sufficient data to show the presence of a potential reservoir.

Kitchen Prospect

The Kitchen Prospect lies in the middle of Cook Inlet to the west of East Forelands and due east of the productive Middle Ground Shoal field. EOC has mapped a prospect formed by the up dip displacement of the Tertiary strata against two major north-south trending thrust faults, the West Kitchen and MGS Kitchen faults. The faults, as mapped, parallel the Middle Ground Shoal fault system to the west and forms the western edge of the prospect. East of the faults, the Tertiary strata dip uniformly to the east in a homocline. The Sterling and Beluga sands are the primary targets for gas; oil is the primary objective in the Tertiary section. EOC mapped this prospect using six seismic lines with only two lines defining the primary structure. Division staff question the interpretation of this data and Division in-house seismic data contradicts EOC's interpretation that the proposed fault system and resulting prospect exist. The Applicant fails to supply sufficient data to show the presence of a potential reservoir.

EOC reprocessed several of its seismic lines using a technique called wavelet energy absorption (WEA) for both the Kitchen and East Kitchen Prospects. In the proper depositional setting, zones that are filled with gas are thought to absorb more seismic energy than zones that are water saturated. WEA processing is a technique that attempts to estimate this change in seismic wave energy and use this difference as an indicator of the presence of gas by displaying the difference as high amplitude bright spots on the seismic section. Over the East Kitchen Prospect, bright spot

anomalies are present at the top of the prospect while on the Kitchen Prospect some bright spots exist, but are located lower on the flanks of the prospect and do not align with the proposed fault. It is also possible that other lithology or fluid types can cause this phenomenon and would show up on the reprocessed lines as bright spots. This is part of EOC's justification for a prospect in East Kitchen, but would require some sort of barrier for a reservoir to be present in the prospect.

Summary

The geologic and geophysical data provided by EOC do not conclusively demonstrate the existence of a viable hydrocarbon prospect in either the Kitchen or East Kitchen areas. EOC interprets their sparse seismic data to map a hydrocarbon prospect and is willing to explore the unit by drilling a well in 2007. Because EOC is willing to drill a well and test this prospect this year, the benefits to the public of approving the unit outweigh the risks associated extending the leases and delaying their inclusion in a future lease sale.

3. Plans for Exploration or Development of the Proposed Unit Area

The Agreement must include plans for exploration or development. 11 AAC 83.306(1). The initial POE must include a description of proposed exploration activities, including the bottom-hole locations and depths of proposed wells, and the estimated date drilling will commence. 11 AAC 83.341(a).

EOC submitted the initial POE, Exhibit G, with the Application. EOC proposed to possibly drill two wells and acquire seismic in 2007, and drill a third well in 2008.

The Division proposed revisions to Exhibit G on December 21, 2006 and on January 16 and 17, 2007. Because of the G&G characteristics discussed above and the significant challenges EOC will face in obtaining a suitable drilling rig, the Division asked for a firm commitment to drill a well in 2007. The firm commitment, set out in Exhibit G of the Agreement, requires that EOC drill a well in the Kitchens or East Kitchens prospect in 2007. The Division's revisions are incorporated into the final Exhibit G, shown as Attachment 3. On January 18, 2007, EOC indicated the Division's proposed revisions were acceptable.

There is no drill rig currently available on site. Locating a suitable rig and transporting it to Cook Inlet are significant challenges. On June 27, 2006, EOC received a waiver of the Jones Act, so that the TAI AN KOU, a foreign-flagged vessel, may be used to transport a jack-up drilling rig (the "Tellus rig") to Cook Inlet, Alaska, from Port Arthur, Texas. The rig is an independent leg, cantilever jack-up rig that can work in 250 feet of water with a drilling depth of up to 20,000 feet.

The waiver assumed, based on EOC's representations, that the Tellus rig would be moved beginning in mid-July, 2006, and completed in September 2006. EOC originally planned to drill in 2006. Those plans were deferred to 2007 in the Application. This delay may require EOC to obtain an extension of the Jones Act waiver and make arrangements to use a different rig. EOC

has been working to bring a rig to Cook Inlet for several years. The Application suggests that EOC believes that it can execute a plan to bring a rig to Cook Inlet in 2007.

Under 11 AAC 83.341, EOC shall submit a second POE at least 60 days before the initial POE expires. Alternatively, under 11 AAC 83.343, EOC may request approval of the first Plan of Development (POD), if appropriate, at least 90 days before the Initial POE expires. Subject to Division approvals and completion of the initial POE's first year's work commitments, the regulations provide a mechanism for EOC to extend operations beyond the term of the initial POE. Upon completion of the initial POE, the terms of subsequent POEs or PODs will be re-evaluated.

Completion of the proposed drilling activities as scheduled during the one-year initial term will satisfy the State's performance standards and diligence requirements. Therefore, the plans for exploration of the proposed unit area justify approval of the Application under the section .303(b)(4) criteria.

4. The Economic Costs and Benefits to the State

The general work plan and assessment of the hydrocarbon potential in the KHU offers economic benefits to the State if completed as contemplated and if hydrocarbon production is ultimately proven commercial.

The additional assessment of the hydrocarbon potential of the leases will create jobs and in-state economic activity in the short-term and if the exploration activity is successful, the State and its residents will enjoy royalty and tax revenues and increased employment opportunities over the long term. If gas is discovered and ultimately developed it will help alleviate a potential gas supply shortfall in Cook Inlet and extend the life of Cook Inlet production.

If a jack-up rig is brought to Cook Inlet for this project it may be available for use by other operators, which may lower costs on exploration and development in other portions of the Cook Inlet basin. Assuming the initial POE is completed, this would be the first jack-up rig in Cook Inlet waters since ARCO Alaska's multi-well drilling program in the area in 1993.

The primary terms of five of the EOC and TLM leases will expire on January 31, 2007, but it is in the best interest of the State to form the unit to facilitate the exploration efforts to stimulate economic development and create a greater revenue opportunity through royalty sharing. If EOC does not complete the initial POE work commitments, or if EOC does not submit a second POE or POD that is approved by the Division, the unit will terminate, those leases will expire and can be offered in a future lease sale.

Any additional administrative burdens associated with the formation of the new unit are far outweighed by the additional royalty and tax benefits derived from any production that may occur if the exploration and development activity is successful. Under the initial POE, with the requirement that a well will be drilled in 2007, it is more likely that the leases will be explored quicker than if the leases are returned to the state and re-leased.

Therefore, the economic costs and benefits to the State of the proposed unit justify approval of the Application under the section .303(b)(5) criteria.

5. Amendments to the Standard Unit Agreement

The Agreement defines the relationship between the unit operator, the WIOs, and the royalty owners. It describes the rights and responsibilities, in addition to those imposed by state law and the leases, of the operator, WIO, and royalty owners for exploration and development of the unit area.

As a part of the Application, EOC submitted the Agreement using the State Only Model Form, dated June 2002 including modifications requested by the Division. The final version of the Agreement is shown as Attachment 4. Modifications requested by the Division, and incorporated into the final version are shown in Attachment 5.

6. EOC Lease Amendment Provision and Royalty Cost Structure

Fifteen of the sixteen EOC leases in the proposed unit contain overriding royalty interests that bring the total royalty obligation to 30 percent royalty, including the 12.5 percent to the State. In order to protect the state's interests, the leases include the following lease amendment provision:

“All Lessees must first extinguish any and all overriding royalty interest before applying for royalty modification under AS 38.05.180 (j) or any other current or future royalty modification provision in statute or regulation.”

This lease amendment provision was required by the Division as a condition of obtaining a short-term approval (EOC requested lease assignment approval “as soon as possible” due to its pending transaction related to project financing) of lease assignments from Escopeta Energy Company to EOC.

7. Elimination of FAO leases, ADL 389923 and ADL 389507

As a part of this decision, the Division is excluding the FAO leases, ADLs 389923 and 389507, from the proposed unit. EOC shall submit revised Exhibits A and B reflecting the removal of these leases from the KHU within 30 days from approval of this decision.

While it is uncertain if these two leases may encompass a portion of the reservoir based on current geologic and geophysical data, after the leases are removed from the KHU, the remaining reservoir may consist of “part of one or more potential hydrocarbon accumulations” consistent with 11 AAC 83.356. The Division may approve the Agreement if the available data suggest that the unit area covers all or part of one or more oil or gas reservoirs, or all or part of one or more potential hydrocarbon accumulations and the Application meets the other statutory and regulatory criteria.

FAO did not ratify the Agreement or the Unit Operating Agreement and has provided comments neither supporting nor opposing unitization, and neither supporting nor opposing inclusion of their two leases in the proposed KHU. Without FAO's consent, or further evidence that the leases must be included to protect the reservoir, they are excluded from this unit.

FINDINGS

The Application meets the criteria in 11 AAC 83.303(a) as discussed below.

1. Promote the Conservation of All Natural Resources and Prevention of Economic and Physical Waste

Unitization allows operations, exploration, and development to be conducted more efficiently across an entire unit area rather than on a lease basis. Infrastructure, such as production, gathering, and processing facilities can be shared rather than constructing stand-alone facilities on a lease-by-lease basis.

The formation of the KHU will allow state lands to be comprehensively and efficiently explored and developed. The Agreement and Unit Operating Agreement and completion of the initial POE and subsequent plans of exploration or development governing that production will help avoid unnecessary duplication of development efforts. Infrastructure can be shared to require fewer materials, less equipment and to minimize surface impacts, environmental risk, and waste, and to promote the conservation of resources.

Unitization also allows marginally economic reserves, which otherwise may not be economic on a lease-by-lease basis, to be produced in combination with more productive leases in a unit. The KHU combines state leases allowing economies of scale so that less productive areas may be developed along with the more productive areas. Providing access to marginal reserves within the KHU prevents the physical and economic waste of those reserves. The relatively high royalty burden creates some risk of economic waste if it were to preclude development. This risk is discounted, however, because the initial POE sets out a drilling plan that will facilitate the ultimate development and production of the reservoir, if oil and gas are discovered in commercial quantities and terminates the KHU, if certain milestones are not met.

Finally, unitization ensures an equitable allocation of costs and revenues commensurate with the value of the leases. Without an equitable cost-sharing formula, competing landowners or individual leasehold interests could produce reserves without regard to the impacts on recovery of other reserves owned by other leasehold interests. The KHU has two WIOs, EOC and TLM, both of whom have signed the Agreement and the Unit Operating Agreement. Although their working interests are currently the same across 15 leases in the unit, interests could change or other WIOs could be farmed into the unit. When a participating area is formed, the unit operator shall establish a method to allocate costs and production to the proposed unit based on the geologic and geophysical information obtained by drilling.

Exploration and development of the leases under the initial POE will reduce the incremental environmental impact of production and will conserve natural resources and prevent economic and physical waste. Therefore, the Division's evaluation of the section .303(a)(1)(2) criteria supports approval of the Application.

2. Provide for the Protection of All Parties, Including the State

The Agreement will protect the economic interests of the WIOs in the KHU, as well as the royalty owners. There are two working interest owners in the KHU. The WIOs interests are protected by the terms of the Agreement, which describes in detail how production will be managed, and establishes a framework for agreeing how to share costs and revenues within a participating area.

Before production commences from the KHU, a participating area must be formed and the reservoir(s) will be better defined. When a participating area application is filed, FAO and other adjacent landowners may evaluate whether additional leases should be included in the unit. The unit boundaries can be adjusted to be consistent with the geologic and geophysical information obtained by drilling.

The State's economic interest is protected because hydrocarbon recovery from the unitized area is more likely maximized than it would be on a lease-by-lease basis. Diligent development and exploration under a single approved unit plan promotes efficient and more economic evaluation and development of the State's resources, while at the same time minimizing impacts to the area's cultural, biological, and environmental resources.

Also, the lease forms and the conditions of this decision provide, in part, that the state's royalty share will be free and clear of all lease expenses. Operating under the terms and conditions of the lease and unit agreement provides for accurate reporting and record keeping, royalty settlement, in-kind taking, and emergency storage of oil, all of which will further protect the state's interest.

Future drilling, testing, and exploration will define the potential presence and lateral extent of hydrocarbons within the KHU, and provide for the protection of all parties in interest, including the State. The Division's evaluation of the section .303(a)(3) criteria and the modifications to the standard unit agreement supports approval of the Application.

DECISION

- 1) For the reasons discussed above, I hereby approve the Application, subject to the conditions specified herein, including the terms and conditions in Attachments 1--5 to this decision. The Agreement and the initial POE become effective as of 12:01 a.m. on the day following approval by the Director.
- 2) The KHU will be administered by the Division under state statues and regulations, the terms of these Findings and Decision, the leases, and the Agreement.
- 3) The acreages in Exhibit A proposed by EOC for inclusion in the KHU within sections of ADLs 389914, 389915, and 389917 are inconsistent with Division computer protracted values; however, they are consistent with the lease legal descriptions. The correct acreages for these leases are listed in Table 1. The Division computer protracted values are correct and the lease legal descriptions are incorrect. EOC shall provide a revised Exhibit A within 30 days of this decision reflecting the correct acreages for sections of ADLs 389914, 389915, and 389917 proposed for inclusion in the KHU. The Division will correct the lease legal description acreages.
- 4) The FAO leases, ADL 389923 and ADL 389507, are hereby excluded from the KHU. EOC shall submit revised Exhibits A and B reflecting the removal of the FAO leases from the KHU within 30 days from approval of this decision.
- 5) Under 11 AAC 83.301 – 11 AAC 83.395, the terms and conditions under which these lands were leased from the state, and any amendments to these leases, the leases listed in Attachment 1 and shown on Attachment 2, are included in the KHU, subject to the lease acreage corrections and exclusions set out above in paragraphs 3 and 4.
- 6) The operator shall submit updated Exhibits A and B to the Agreement within 30 days following approval by the Commissioner of any expansion or contraction of the unit area under Article 13 or any change of the working interest or royalty interest in any unit tract.
- 7) In accordance with the Agreement and 11 AAC 83.341, an annual report is due that describes operations conducted during each year of the initial POE. The annual report must describe EOC's exploration activities, including the bottom-hole locations and depth of the required well, and the estimated date drilling will commence. The annual report must describe the operations conducted under the initial POE.
- 8) The unit operator shall submit a second POE to the commissioner at least 60 days before the initial POE expires. Alternatively, the unit operator shall request approval of the first POD, if appropriate, at least 90 days before the initial POE expires. 11 AAC 83.341(b) and 11 AAC 83.343(c).
- 9) EOC is designated unit operator.
- 10) An approved unit plan of operations must be obtained before commencing any operations in the unit area. Neither this decision, nor the initial POE, authorizes operations, or well testing for royalty accounting purposes, or otherwise. A separate approval must be obtained from the Division for all unit operations.

- 11) EOC shall incorporate the following terms into the next POE or POD: "EOC shall obtain approval from the Department of Natural Resources to establish an Initial Participating Area within the KHU by December 31, 2010. Any lease or portion of a lease in the KHU not included in an approved participating area by December 31, 2010, contracts out of the KHU."
- 12) The KHU severs of ADLs 389924, 389189, 390548, 389925, 389914, 389915, 389917, 389918, 389919, and 391106 to conform the boundary of the KHU to the known reservoir boundary based on currently available G&G data to the extent possible. All acreage severed from existing leases, as a part of this decision, will continue under terms and conditions stipulated in the lease forms on which the leases were issued.

An eligible person affected by this decision may file an appeal, which must be made in accordance with 11 AAC 02 before any appeal can be filed in the Superior Court. Any appeal received by the commissioner's office 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 Marty K. Rutherford, Acting Commissioner, Department of Natural Resources, 550 W. 7th Avenue, Suite 1400, Anchorage, Alaska 99501; faxed to 1-907-269-8918; or sent by e-mail to dnr_appeals@dnr.state.ak.us. A copy of 11 AAC 02 may be obtained from any regional information office of the Department of Natural Resources.


Kevin Banks, Acting Director
Division of Oil and Gas

1-31-07
Date

- Attachments:
1. KHU Exhibit A, Tract Description and Ownership Schedule
 2. KHU Exhibit B, Map of the Kitchen Unit
 3. Exhibit G, Plan of Exploration
 4. Kitchen Unit Agreement
 5. Modifications to Unit Agreement
 6. Correspondence

**Attachment 1: KHU Exhibit A, Tract Description and Ownership
Schedule**

DEC 11 2006

CLAS 823

ESCOPETA OIL COMPANY, LLC
EXHIBIT "A"
KITCHEN UNIT
December 2006

TRACT NUMBER	LEASE NUMBER	LEGAL DESCRIPTION	TRACT ACREAGE	ROYALTY & GRRI PERCENTAGE OF INTEREST	WORKING INTEREST OWNERS PERCENTAGE OF INTEREST
Assignments are of record with the State of Alaska, DNR, Division of Oil & Gas					
1	ADL-380754	T10N, R11W, S1M Sections 29, 30, 31 & 32, Protracted, A1	2,536.00	State of Alaska Royalty Interest Escopeta Oil Co., LLC Total GRRI Reserved: 12.6% 17.50% of 8/8 17.50% of 8/8	ESCOPETA OIL CO. LLC 75% TAYLOR MINERALS, LLC 25%
2	ADL-389924	T10N, R11W, S1M Sections 5, 6, 7, 8, 9, 16, 17 10, Protracted, A1	5,020.00	State of Alaska Royalty Interest Escopeta Oil Co., LLC Danny S. Davis Robert C. Werthen A. L. Berry Taylor Minerals, LLC Chase Morsley Jr. as Trustee of the Chase Morsley Living Trust Medicine Bow Ventures Limited Partnership Medicine Bow Ventures Limited Partnership as a gift on behalf of Susan B. Dunn Total GRRI Reserved: 12.6% 11.00% of 8/8 1.00% of 8/8 1.00% of 8/8 2.00% of 8/8 1.00% of 8/8 0.22% of 8/8 1.17% of 8/8 0.15% of 8/8 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC 25%
3	ADL-389789	T10N, R12W, S1M Sections 11 & 12, Protracted, A	1,020.00	State of Alaska Royalty Interest Escopeta Oil Co., LLC Danny S. Davis Robert C. Werthen Taylor Minerals, LLC Chase Morsley Jr. Chase Morsley Jr. as Trustee of the Chase Morsley Living Trust Timberline Ventures Ltd. Partnership as a gift on behalf of Susan B. Dunn Timberline Ventures Ltd. Partnership Total GRRI Reserved: 12.6% 13.00% of 8/8 1.00% of 8/8 1.00% of 8/8 1.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC 25%

TRACT NUMBER	LEASE NUMBER	LEGAL DESCRIPTION	ACREAGE	ROYALTY & ORRI PERCENTAGE C- IN LEST	WORKING INTEREST OWNERS PERCENTAGE OF INTEREST	
4	ADL-369100	T9N, R12W, S.M. Sections 13, 14, 23 & 24, Protracted, All	2,580.00	State of Alaska Royalty Interest Escopeta Oil Co., LLC Danny S. Davis Robert C. Weather Taylor Minerals, LLC Chase Marney, Jr. Chase Marney, Jr. as Trustee of the Chase Marney Living Trust Timberline Ventures Ltd. Partnership as a Gift on behalf of Susan B. Gunn Timberline Ventures Ltd. Partnership Total ORRI Reserved:	12.5% 13.00% of 8/8 1.00% of 8/8 1.00% of 8/8 1.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%
5	ADL-39918	T9N, R12W, S.M. Sections 15, 21 & 22, Protracted, All	1,620.00	State of Alaska Royalty Interest Escopeta Oil Co., LLC Danny S. Davis Robert C. Weather Taylor Minerals, LLC Chase Marney, Jr. Chase Marney, Jr. as Trustee of the Chase Marney Living Trust Timberline Ventures Ltd. Partnership as a Gift on behalf of Susan B. Gunn Timberline Ventures Ltd. Partnership Total ORRI Reserved:	12.5% 11.00% of 8/8 1.00% of 8/8 1.00% of 8/8 1.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%
6	ADL-390546	T9N, R10W, S.M. Sections 10, 20, 21, 28, 33, Protracted, All	2,192.00	State of Alaska Escopeta Oil Co., LLC Total ORRI Reserved:	12.5% 17.50% of 8/8 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%

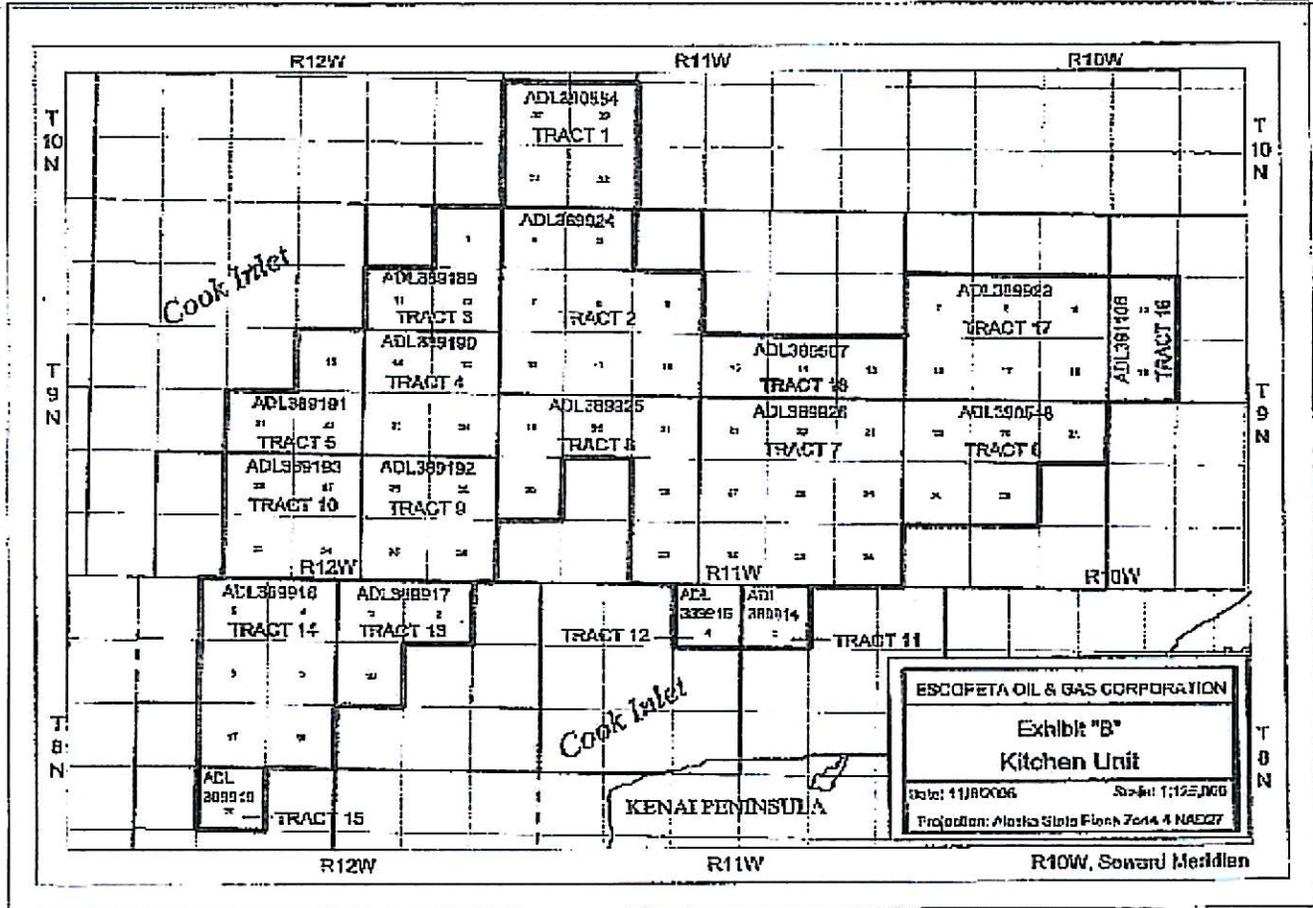
TRACT NUMBER	LEASE NUMBER	LEGAL DESCRIPTION	TRACT ACRES	ROYALTY & CRR PERCENTAGE OF INTEREST	WORKING INTEREST OWNER PERCENTAGE OF INTEREST	
7	ADL-389926	T9N, R11W, S.M. Sections 22, 23, 24, 25, 26, 27, 28, 29, 30, Protracted, AI	5,700.00	State of Alaska Royalty Interest Esopeta Oil Co., LLC Darryl S. Davis Robert C. Warthen Taylor Minerals A. L. Berry Chase Morsey, Jr. Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust Timberline Ventures Ltd. Partnership as a gift on behalf of Susan B. Dunn Timberline Ventures Ltd. Partnership Total CRR Reserved:	12.5% 11.00% of 8/8 1.00% of 8/8 1.00% of 8/8 1.00% of 8/8 2.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOFETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC 25%
8	ADL-389926	T9N, R11W, S.M. Sections 19, 20, 21, 26, 30, 33, Protracted, AI	3,763.00	State of Alaska Royalty Interest Esopeta Oil Co., LLC Robert C. Warthen A. L. Berry Taylor Minerals, LLC Chase Morsey, Jr. Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust Medicine Bow Ventures Limited Partnership As a gift on behalf of Susan B. Dunn Medicine Bow Ventures Limited Partnership Total CRR Reserved:	12.5% 11.00% of 8/8 1.00% of 8/8 2.00% of 8/8 1.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOFETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC 25%
9	ADL-389152	T9N, R12W, S.M. Sections 25, 28, 30 & 30 Protracted, AI	2,560.00	State of Alaska Royalty Interest Esopeta Oil Co., LLC Darryl S. Davis Robert C. Warthen Taylor Minerals, LLC Chase Morsey, Jr. Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust Timberline Ventures Ltd. Partnership as a Gift on behalf of Susan B. Dunn Timberline Ventures Ltd. Partnership Total CRR Reserved:	12.5% 13.00% of 8/8 1.00% of 8/8 1.00% of 8/8 1.00% of 8/8 0.10% of 8/8 0.10% of 8/8 0.13% of 8/8 0.13% of 8/8 1.17% of 8/8 17.50% of 8/8	ESCOFETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC 25%

TRACT NUMBER	LEASE NUMBER	LEASE DESCRIPTION	TRACT ACREAGE	ROYALTY & ORR PERCENTAGE OF INTEREST	WORKING INTEREST OWNERS PERCENTAGE OF INTEREST
10	ADL-3891B3	T8N, R17W, S1M, Sections 27, 28, 33 & 34, Protected, AI	2,669.03	State of Alaska Royalty Interest 12.5% Escopeta Oil Co., LLC 13.00% of 8/8 Danny S. Davis 1.00% of 8/8 Robert C. Weidner 1.00% of 8/8 Taylor Minerals, LLC 2.00% of 8/8 Chase Morsey, Jr. 0.10% of 8/8 Chase Morsey Jr. as Trustee of the Chase Morsey Living Trust 0.10% of 8/8 Medicine Bow Ventures, Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.12% of 8/8 Medicine Bow Ventures, Ltd. Partnership 1.17% of 8/8 Total ORR Reserved: 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC. 25%
11	ADL-389B14	T8N, R17W, S1M, Section 3, Protected, AI	640.00	State of Alaska Royalty Interest: 12.5% Escopeta Oil Co. LLC 11.00% of 8/8 Danny S. Davis 1.00% of 8/8 Robert C. Weidner 1.00% of 8/8 A. L. Berry 2.00% of 8/8 Taylor Minerals, LLC 1.00% of 8/8 Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust 0.20% of 8/8 Medicine Bow Ventures, Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.12% of 8/8 Medicine Bow Ventures, Ltd. Partnership 1.17% of 8/8 Total ORR Reserved: 17.50% of 8/8	ESCOPETA OIL COMPANY, LLC. 75% TAYLOR MINERALS, LLC. 25%
12	ADL-389B15	T6N, R17W, S1M, Section 4, Protected, AI	640.00	State of Alaska Royalty Interest 12.5% Escopeta Oil Co., LLC 11.00% of 8/8 Danny S. Davis 1.00% of 8/8 Robert C. Weidner 1.00% of 8/8 A. L. Berry 2.00% of 8/8 Taylor Minerals, LLC 1.00% of 8/8 Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust 0.20% of 8/8 Medicine Bow Ventures, Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.12% of 8/8 Medicine Bow Ventures, Ltd. Partnership 1.17% of 8/8 Total ORR Reserved: 17.50% of 8/8	ESCOPETA OIL COMPANY, L. C. 75% TAYLOR MINERALS, LLC. 25%

TRACT NUMBER	LEASE NUMBER	LEGAL DESCRIPTION	TRACT ACREAGE	ROYALTY & ORR PERCENTAGE OF INTEREST	WORKING INTEREST OWNERS PERCENTAGE OF INTEREST
13	ADL-389917	T8N, R12W, S.M. Sections 2, 5, 11, Protected, A1	1,620.00	State of Alaska Royalty Interest 12.5% Escopeta Oil Co., LLC 1.00% of GR Danny S. Davis 1.00% of GR Robert C. Weather 1.00% of GR A. L. Berry 2.00% of GR Taylor Minerals, LLC 1.00% of GR Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust 0.25% of GR Medicine Bow Ventures Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.15% of GR Medicine Bow Ventures Ltd. Partnership 1.17% of GR Total ORR Reserved: 17.50% of GR	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%
14	ADL-389918	T6N, R12W, S.M. Sections 4, 8, 9, 16, & 17, Protected, A1	2,040.00	State of Alaska Royalty Interest 12.5% Escopeta Oil Co., LLC 1.00% of GR Danny S. Davis 1.00% of GR Robert C. Weather 1.00% of GR A. L. Berry 2.00% of GR Taylor Minerals, LLC 1.00% of GR Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust 0.25% of GR Medicine Bow Ventures Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.15% of GR Medicine Bow Ventures Ltd. Partnership 1.17% of GR Total ORR Reserved: 17.50% of GR	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%
15	ADL-389919	T9N, R12W, S.M. Sections 20, Protected, A1	640.00	State of Alaska Royalty Interest 12.5% Escopeta Oil Co., LLC 1.00% of GR Danny S. Davis 1.00% of GR Robert C. Weather 1.00% of GR A. L. Berry 2.00% of GR Taylor Minerals, LLC 1.00% of GR Chase Morsey, Jr. as Trustee of the Chase Morsey Living Trust 0.25% of GR Medicine Bow Ventures Ltd. Partnership as a gift on behalf of Susan B. Dunn 0.15% of GR Medicine Bow Ventures Ltd. Partnership 1.17% of GR Total ORR Reserved: 17.50% of GR	ESCOPETA OIL COMPANY, LLC 75% TAYLOR MINERALS, LLC 25%

TRACT NUMBER	LEASING NUMBER	LEGAL DESCRIPTION	TRACT ACREAGE	ROYALTY & CRRRI PERCENTAGE OF INTEREST	WORKING INTEREST OWNERS PERCENTAGE OF INTEREST
16	ADL-39111X	T9N, R10W, S8M, Sections 13 & 15, Protected, All	1,280.00	State of Alaska Royalty Interest	12.5% ESCOPH OIL COMPANY, LLC. (100% total issued by State)
17	ADL-369323	T9N, R10W, S8M Sections 7, 8, 9, 16, 17, 10, Protected, All	3,626.00	State of Alaska Royalty Interest	12.5% FOREST ALASKA OPERATING LLC 100%
18	ADL 389507	T9N, R10W, S8M, Sections 13, 14, 15, Protected, All	1,920.00	State of Alaska Royalty Interest	12.5% FOREST ALASKA OPERATING LLC 100%
TOTAL UNIT AGREASE:			46,571.00 Acres, more or less		

Attachment 2
KHU Exhibit B, Map of the Kitchen Unit



DEC 11 2005

DAVID J. ...

Attachment 3

Exhibit G – KHU Initial Plan of Exploration

The unit operator, Escopeta Oil Company LLC (EOC), shall complete an 11-month initial plan of exploration for the Kitchen Unit (KHU), effective February, 1, 2007 to December 31, 2007.

1. By December 31, 2007, EOC shall drill one exploration well, within the KHU:
 - a. to one of the three bottomhole locations within the KHU, as set out in Table 1, below;
 - b. to 16000 to 20000 feet TVD to test the Sterling, Beluga, Tyonek, and Hemlock Formations; and
 - c. Log the wells (GR or SP, Resistivity and Neutron/Density or Porosity: appropriate triple combo log).

2. EOC shall provide the Division a copy of all new seismic information it acquires, as well as any interpretations of that data, including the following to the extent it is available:
 - a. digital navigation data (SEG P1, or UKOOA P-84 formats) and supporting post-plots including navigation for the corners of the final processed 3D volume and the datum for the coordinates;
 - b. final migrations in SEG Y format (including both pre-stack time, and pre-stack depth volumes when available) and nmo-corrected gathers with navigation in the trace headers;
 - c. acquisition & processing report; and
 - d. data medium should be DLT.

3. Unless the Division approves a second POE or initial POD, the KHU will automatically terminate at 5 p.m., Alaska time, December 31, 2007, and EOC shall immediately surrender to the Division all leases in the KHU whose primary terms have expired and that do not contain a well certified by the Division, in its sole discretion, to be capable of production in paying quantities, as those terms are defined in the first sentence of 11 AAC 83.105, effective the day the KHU terminates.

TABLE 1: PROPOSED WELL LOCATION INFORMATION

<u>East Kitchen #1</u>	<u>Kitchen #1</u>	<u>Kitchen #2</u>
ADL 389926:	ADL 389924:	ADL 389917:
T9, North, R11	T9, North, R11	T8 North, R12
West, Section 22	West, Section 18	12 West, Section 3

Additional Provisions

1. EOC waives the extension provisions of 11 AAC 83.140, Article 15.2 of the Agreement, and the notice, hearing, and judicial proceedings provisions of 11 AAC 83.374, applicable to default and termination of the KHU.

2. In accordance with Article 8.1.1 of the Agreement and 11 AAC 83.341, an annual report is due that describes the status of projects undertaken and the work completed during the year of the POE, as well as any proposed changes to the plan. The update to the POE must describe EOC's exploration activities, including the bottom-hole locations and depths of the well. All exploration operations must be conducted under the initial POE.
3. The Unit Operator shall submit a Second POE to the Commissioner at least 60 days before the initial POE expires. Alternatively, the Unit Operator shall request approval of the first POD, if appropriate, at least 90 days before the initial POE expires. 11 AAC 83.341(b) and 11 AAC 83.343(c).
4. EOC shall incorporate the following terms into the next POE or POD: "EOC shall obtain approval from the Department of Natural Resources to establish an Initial Participating Area within the KHU by December 31, 2010. Any lease, or portion of a lease, in the KHU not included in an approved participating area by December 31, 2010, contracts out of the KHU."

Attachment 4
Kitchen Unit Agreement

KITCHEN UNIT AGREEMENT

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RECITALS

All record owners of any right, title, or interest in the oil or gas reservoirs or potential hydrocarbon accumulations to be included in this Unit have been invited to join this Agreement.

The Commissioner of the Department of Natural Resources, State of Alaska, is authorized by Alaska Statute 36.05.130(p) and (q) and applicable regulations in consent to and approve oil and gas unit agreements to explore, develop and produce state oil and gas resources.

AGREEMENT

In consideration of the mutual promises in this Agreement, the parties commit their respective interests in the Unit Area defined in Exhibit A and depicted in Exhibit B to this Agreement, and agree as follows:

ARTICLE 1: DEFINITIONS

1.1 **Alaska Oil and Gas Conservation Commission (AOGCC)** means the independent quasi-judicial agency of the State of Alaska established by the Alaska Oil and Gas Conservation Act, AS 31.05.

1.2 **Approved Unit Plan** means a Unit Plan that has been approved by the Commissioner.

1.3 **Commissioner** means the Commissioner of the Department of Natural Resources, State of Alaska, or the Commissioner's authorized representative.

1.4 **Effective Date** means the time and date this Agreement becomes effective.

1.5 **Lease or Leases** means one or more oil and gas lease subject to this Agreement.

1.6 **Oil and Gas Rights** means the rights to explore, develop, and produce Utilized Substances.

1.7 **Outside Substances** means oil, gas, and other hydrocarbons and non-hydrocarbon substances obtained from outside the Unit Area and injected into a Reservoir in the Unit Area with the approval of the Commissioner.

1.8 **Outside PA Substances** means oil, gas, and other hydrocarbons and non-hydrocarbon substances obtained from one Participating Area in the Unit Area and injected into a Reservoir in a different Participating Area in the Unit Area with the Commissioner's approval.

1.9 **Participating Area** means all Unit Tracts and parts of Unit Tracts designated as a Participating Area under Article 9 to allocate Utilized Substances produced from a Reservoir.

1.10 **Participating Area Expense** means all costs, expenses or indebtedness, which are incurred by the Unit Operator for production from or operations in a Participating Area and allocated to the Unit Tracts in that Participating Area.

1.11 **Paying Quantities** means a quantity of Utilized Substances sufficient to yield a return in excess of operating costs, even if drilling and equipment costs will never be repaid and the undertaking considered as a whole will ultimately result in a loss. The quantity is insufficient to yield a return in excess

of operating costs unless it will produce sufficient revenue, not considering transportation and marketing, to induce a prudent operator to produce it.

1.12 **Reservoir** means that part of the Unit Area containing an accumulation of Unitized Substances which has been discovered by drilling and evaluated by testing a well or wells, and which is geologically separate from and not in hydrocarbon communication with any other oil and gas accumulation.

1.13 **Royalty Interest** means an ownership right to or interest in the amount or value of Unitized Substances other than a Working Interest.

1.14 **State** means the State of Alaska acting in this Agreement through the Commissioner.

1.15 **Sustained Unit Production** means continuing production of Unitized Substances from a well in the Unit Area into production facilities and transportation to market, but does not include testing, evaluation or pilot production.

1.16 **Unit Area** means the lands subject to this Agreement, described in Exhibit A and depicted in Exhibit B to this Agreement, submerged or not.

1.17 **Unit Equipment** means all personal property, lease and well equipment, plants, platforms and other facilities and equipment used, taken over or otherwise acquired for use in Unit Operations.

1.18 **Unit Expense** means all costs, expenses or indebtedness incurred by the Unit Operator for Unit Operations, except for Participating Area Expense.

1.19 **Unit Operating Agreement** means the agreement(s) entered into by the Unit Operator and the Working Interest Owners, as described in Article 7.

1.20 **Unit Operations** means all operations conducted in accordance with an Approved Unit Plan or Approved Unit Plans.

1.21 **Unit Operator** means the party designated by the Working Interest Owners and approved by the Commissioner to conduct Unit Operations.

1.22 **Unit Plan** means a unit plan of exploration or development as described in Article 8.

1.23 **Unit Tract** means each separate parcel that is described in Exhibit A and given a Unit Tract number.

1.24 **Unit Tract Participation** means the percentage allocation credited to a Unit Tract in a Participating Area to allocate Unitized Substances.

1.25 **Unitized Substances** means all oil, gas and associated substances, as those terms are defined in the Leases, produced from the Leases within the Unit Area.

1.26 **Working Interest** means the interest held in lands by virtue of a lease, operating agreement, fee title or otherwise, under which the owner of the interest is vested with the right to explore for, develop and produce minerals; the right delegated to a unit operator by a unit agreement is not a working interest.

1.27 **Working Interest Owner** means a party who owns a Working Interest.

ARTICLE 2: EXHIBITS

2.1 The following Exhibits are to be attached to and made a part of this Agreement. When this Agreement is approved, only Exhibits A, B, and C are required. Exhibit F is also required when this Agreement is approved, if the Unit Area includes Net Profit Share Leases. The Unit Operator shall supply all Exhibits.

2.2 Exhibit A is a table that identifies and describes each Unit Tract, and displays: the Unit Tract number, the Lease number, the Working Interest ownership, the Royalty Interest ownership, and the applicable royalty and net profit share rates applicable to each Unit Tract. Within thirty days after approval by the Commissioner of any expansion or contraction of the Unit Area under Article 13 or any change of the Working Interest or Royalty Interest in any Unit Tract, the Unit Operator shall submit a revised Exhibit A to the Commissioner.

2.3 Exhibit B is a map that shows the boundary lines of the Unit Area and of each Unit Tract, identified by Unit Tract number and Lease number. Within thirty days after the Commissioner approves any expansion or contraction of the Unit Area under Article 13 or any change of the Working Interest or Royalty Interest in any Unit Tract, the Unit Operator shall submit a revised Exhibit B to the Commissioner.

2.4 Exhibit C is comprised of a table for each Participating Area established under this Agreement. The Exhibit C table for each Participating Area must display the Unit Tract numbers, legal descriptions, Lease numbers, Working Interest ownership, Royalty Interest ownership, and Unit Tract Participation for that Participating Area. Exhibits must be prepared for each Participating Area established in the Unit Area. The Unit Operator shall submit an initial or revised Exhibit C to the Commissioner within thirty days of: 1) the effective date of any Participating Area, 2) any expansion or contraction of a Participating Area, 3) any division of interest or allocation formula establishing or revising the Unit Tract Participation of any Unit Tract or Unit Tracts in a Participating Area, or 4) any change of the Working Interest or Royalty Interest in any Unit Tract.

2.5 Exhibit D is comprised of a map for each Participating Area. Each Exhibit D map must show the boundary lines of the Unit Area, a Participating Area and the Unit Tracts in that Participating Area identified by Unit Tract number and Lease number. Within thirty days after approval by the Commissioner of a Participating Area or any expansion or contraction of a Participating Area under Article 9 or any change of the Working Interest or Royalty Interest in any Unit Tract in a Participating Area, the Unit Operator shall submit a revised Exhibit D to the Commissioner.

2.6 Exhibit E is comprised of a table for each Participating Area that displays the allocation of Participating Area Expense to each Unit Tract in the Participating Area, identified by Unit Tract number and Lease number. Exhibits must be prepared for each Participating Area established in the Unit Area. The Unit Operator shall submit an initial or revised Exhibit E to the Commissioner whenever an initial or revised Exhibit C is required.

2.7 Exhibit F is a table that displays the allocation of Unit Expense to each Unit Tract in the Unit Area, identified by Unit Tract number and Lease number. The Unit Operator shall submit an initial or revised Exhibit F to the Commissioner whenever an initial or revised Exhibit A is required if the Unit Area includes Net Profit Share Leases. The Unit Operator may submit a revised Exhibit F anytime, but any revisions to Exhibit F are not effective until approved by the Commissioner.

2.8 Exhibit G is the unit plan of exploration or unit plan of development required by the regulations, and Article 8 of this Agreement.

ARTICLE 3: CREATION AND EFFECT OF UNIT

3.1 All Oil and Gas Rights in and to the lands described in Exhibit A and shown in Exhibit B are subject to this Agreement so that Unit Operations will be conducted as if the Unit Area was a single Lease.

3.2 So long as this unit remains in effect, each Lease in the Unit Area shall continue in effect.

3.3 Except as otherwise provided in this Agreement, where only a portion of a lease is committed to this Agreement, that commitment constitutes a severance of the lease into unitized and non-unitized portions. The portion of the leased area not committed to this Agreement will be treated as a separate and distinct lease and may be maintained only in accordance with the terms and conditions of the lease, statutes, and regulations. Any portion of the leased area not committed to this Agreement will not be affected by the unitization by operations in the Unit Area, or by a suspension approved or ordered by the Commissioner. If a lease has a well certified as capable of production in paying quantities on it before commitment to this Agreement, the lease will not be severed by unitization. If any portion of the Lease is included in a Participating Area formed under this Agreement, the entire Lease will remain committed to this Agreement, and the Lease will not be severed.

3.4 Production of Unitized Substances in Paying Quantities from any part of a Participating Area shall be considered production from each Unit Tract in the Participating Area. It shall cause the portion of each Lease that is wholly or partially within the Participating Area to continue in effect as if a well were producing from each Unit Tract in the Participating Area.

3.5 The provisions of the various Leases and agreements pertaining to the respective Leases or production from those Leases are amended only to the extent necessary to make them conform to the written provisions of this Agreement. Otherwise, the provisions of those Leases and agreements shall remain in full force and effect.

3.6 This Agreement shall not be construed to transfer title to Oil and Gas Rights by any party to any other party or to the Unit Operator.

3.7 All data and information determined by the Commissioner to be necessary for the administration of this Agreement or for the performance of statutory responsibilities shall be provided by the Unit Operator, or Working Interest Owners, or both, upon written request. All data and information provided to the Commissioner shall be protected from disclosure under the Lease governing law, and regulations.

ARTICLE 4: DESIGNATION OF UNIT OPERATOR

4.1 Escopeta Oil Company is designated as the Unit Operator. Escopeta Oil Company agrees to accept the rights and obligations of the Unit Operator to conduct Unit Operations and to explore for, develop and produce Unitized Substances as provided in this Agreement.

4.2 Except as otherwise provided in this Agreement and subject to the terms and conditions of Approved Unit Plans, the exclusive rights and obligations of the Working Interest Owners to conduct operations to explore for, develop and produce Unitized Substances in the Unit Area are delegated to and shall be exercised by the Unit Operator. This delegation does not relieve a lessee of the obligation to comply with all Lease terms. The Unit Operator shall notify the other Working Interest Owners and the Commissioner of actions taken by the Unit Operator under this Agreement. The Unit Operator shall minimize and consolidate surface facilities to minimize surface impacts.

ARTICLE 5: RESIGNATION OR REMOVAL OF UNIT OPERATOR

5.1 The Unit Operator shall have the right to resign at any time. The Unit Operator's resignation shall not become effective until: 1) sixty days have passed since the Unit Operator delivers a written notice of an intention to resign to the Working Interest Owners and the Commissioner; and 2) all artificial islands, installations and other devices, including wells, used for operations in the Unit Area are in a condition satisfactory to the Commissioner for suspension or abandonment of operations. However, if a successor Unit Operator is designated and approved under Article 5, the resignation is effective when approved by the Commissioner.

5.2 The Unit Operator may be removed as provided in the Unit Operating Agreement. This removal shall not be effective until: 1) the Working Interest Owners notify the Commissioner and the Unit Operator; and 2) the Commissioner approves a successor Unit Operator.

5.3 The resignation or removal of the Unit Operator shall not release it from liability for any failure to meet obligations that accrued before the effective date of the resignation or removal.

5.4 The resignation or removal of the Unit Operator does not terminate its rights, title or interest or obligations as a Working Interest Owner or other interest in the Unit Area. A termination of the Unit Operator's rights, title or interest may occur independently under the terms of the Leases and governing law. When the resignation or removal of the Unit Operator becomes effective, the Unit Operator shall relinquish possession of all Unit Equipment, artificial islands, wells, installations, devices, records, and any other assets used for conducting Unit Operations, whether or not located in the Unit Area, to the successor Unit Operator.

ARTICLE 6: SUCCESSOR UNIT OPERATOR

6.1 Whenever the Unit Operator tenders its resignation as Unit Operator or is removed as provided in Article 5, a successor Unit Operator may be designated as provided in the Unit Operating Agreement. The successor Unit Operator must accept the rights and obligations of a Unit Operator in writing. The successor Unit Operator shall file an executed copy of the designation of successor with the Commissioner. The designation of successor Unit Operator will not become effective until approved by the Commissioner.

6.2 If no successor Unit Operator is designated within sixty days after notice to the Commissioner of the resignation or removal of a Unit Operator, the Commissioner will, in his or her discretion, designate another Working Interest Owner as successor Unit Operator, or declare this Agreement terminated.

ARTICLE 7: UNIT OPERATING AGREEMENT

7.1 The Working Interest Owners and the Unit Operator shall enter into a Unit Operating Agreement. It will apportion all costs and liabilities incurred in maintaining or conducting Unit Operations among the Working Interest Owners. The Unit Operating Agreement will also apportion the benefits, which will accrue from Unit Operations among the Working Interest Owners.

7.2 Any allocation described in the Unit Operating Agreement will not bind the State in determining or settling royalties and net profit share payments. Allocations of Unit Expense, Participating Area Expense, or Unitized Substances for determining, settling and paying royalties and net profit share payments will be based on Exhibits G, E and F of this Agreement and must be approved by the Commissioner in writing before taking effect. An original or revised conforming Exhibit C and F shall be

submitted to the Commissioner within thirty days of any change in the division of interest or allocation formula establishing or revising the Unit Tract Participation of any Unit Tract or Unit Tracts in a Participating Area.

7.3 The Working Interest Owners and the Unit Operator may establish, through one or more Unit Operating Agreements and amendments, other rights and obligations between the Unit Operator and the Working Interest Owners. The Unit Operating Agreement will not modify any term or obligation of this Agreement. If the terms of this Agreement and the Unit Operating Agreement conflict, this Agreement will prevail.

7.4 Any Working Interest Owner is entitled to drill a well on the unitized portion of its Lease when the Unit Operator declines to drill that well. A Working Interest Owner must have an approved permit to drill and the well must be part of an Approved Unit Plan. If the Commissioner determines any such well to be capable of producing Unitized Substances in Paying Quantities, the land upon which that well is situated will be included in a Participating Area. The Participating Area will be formed or an existing Participating Area enlarged as provided in this Agreement. The Unit Operator will hereafter operate the well in accordance with this Agreement and the Unit Operating Agreement.

7.5 The Unit Operator shall file a copy of the Unit Operating Agreement with the Commissioner when this Agreement is filed for approval. The copy of the Unit Operating Agreement is for informational purposes only. Approval of the Unit Agreement is not approval of the Unit Operating Agreement. Complete copies of all other Unit Operating Agreements and any amendments to them will also be filed with the Commissioner within thirty days of execution and at least thirty days before their effective dates.

ARTICLE 8: PLANS OF EXPLORATION, DEVELOPMENT AND OPERATIONS

8.1 Any Unit Plan and any amendment to a Unit Plan will not be effective until the Commissioner approves it. Approved Unit Plans are incorporated into this Agreement and become effective on the date of their approval.

8.1.1 A unit plan of exploration ("Plan of Exploration") shall describe the proposed exploration and delineation activities for any land in the Unit Area that is not in a Participating Area. Plans of Exploration shall comply with 11 AAC 83.341 and any successor regulation. The Unit Operator shall submit updated Plans of Exploration to the Commissioner for approval at least sixty days before the current Plan of Exploration expires.

8.1.2 A unit plan of development ("Plan of Development") shall include a description of the proposed development activities based on data available when the plan is submitted. Plans of Development shall comply with 11 AAC 83.343 and any successor regulation. The Unit Operator shall submit updated Plans of Development to the Commissioner for approval at least ninety days before the current Plan of Development expires.

8.1.3 When this Agreement is submitted to the Commissioner for approval, the Unit Operator shall submit an initial Plan of Development or an initial Plan of Exploration (collectively called the "Initial Unit Plan") for approval by the Commissioner.

8.2 The Unit Operator shall not explore, develop or produce on the Unit Area except in accordance with an Approved Unit Plan. The Unit Operator shall obtain a plan of operations approval, and any other permits and approvals required before operations begin. A plan of operations approval must be consistent with the mitigation measures and lessee advisory development for the most recent State acrewide lease sale in the region that includes the unit as deemed necessary by the Commissioner to protect the resources of the State. The Unit Operator shall submit a complete copy of all such applications to the Commissioner. The Unit Operator shall give the Commissioner written notice before beginning testing, evaluation or pilot production from a well in the Unit Area.

8.3. After Sustained Unit Production in Paying Quantities begins, Unit Operations shall be maintained with lapses of no more than ninety days per lapse between operations. The lapse may be longer if suspension of operations or production has been ordered or approved by the Commissioner. Approved Unit Plans may call for a suspension of Unit Operations.

8.4. After giving written notice to the Unit Operator and an opportunity to be heard, the Commissioner may require the Unit Operator to modify from time to time the rate of prospecting and development and the quantity and rate of production.

8.5. If a well has been drilled in the Unit Area prior to the Effective Date of this Unit Agreement or is being drilled within the Unit Area on the Effective Date, that well will be considered a Unit Well as of the Effective Date of this Agreement.

8.6. The Commissioner will, in the agency's discretion, approve any injection of Outside Substances or Outside PA Substances within the Unit Area. Any injection of Outside Substances or Outside PA Substances within the Unit Area must be part of an Approved Unit Plan.

ARTICLE 9: PARTICIPATING AREAS

9.1. The Unit Operator shall submit a request for approval of the proposed initial Participating Area to the Commissioner at least six months before Sustained Unit Production from a Reservoir in the Unit Area. A Participating Area shall include only land that is reasonably known to be underlain by Utilized Substances and known or reasonably estimated through the use of geological, geophysical and engineering data to be capable of producing or contributing to production of Utilized Substances in Paying Quantities. The Unit Operator must receive approval from the Commissioner of a Participating Area before commencement of Sustained Unit Production. The Unit Operator shall notify the Commissioner before the commencement of Sustained Unit Production from each Participating Area.

9.2. Each application for approval of a Participating Area shall include Exhibits C, D, E, and G. Exhibit F is also required if the Unit Area includes Net Profit Share Leases. If approved by the Commissioner, the area described in Exhibit C and depicted in Exhibit D shall be a Participating Area, and the allocation of Participating Area Expenses and Unit Expenses described in Exhibits E and F shall be effective on the effective date of the Participating Area.

9.3. A separate Participating Area shall be established for each Reservoir in the Unit Area. If one Reservoir underlies another Reservoir in whole or in part, separate Participating Areas may be created for each Reservoir. Any two or more Reservoirs or Participating Areas may be combined into one Participating Area if approved by the Commissioner.

9.4. At the Unit Operator's election or if so directed by the Commissioner, the Unit Operator shall apply to expand or contract the Participating Area if expansion or contraction is warranted by geological, geophysical, or engineering data. Each application for expansion or contraction shall include Exhibits C, D, E, and G. Exhibit F is also required if the Unit Area includes Net Profit Share Leases. The application must be submitted to the Commissioner for approval. Before any directed expansion or contraction of the Participating Area, the Commissioner will give the Unit Operator reasonable notice and an opportunity to be heard.

9.5. The Commissioner will establish the effective date of the initial Participating Area. That effective date shall be no later than the date of the first Sustained Unit Production. The Commissioner will establish the effective date of each later Participating Area.

9.6. Land in a Participating Area shall remain in that Participating Area even if its Utilized Substances are depleted.

9.7. If the Working Interest Owners cannot agree on the fair, reasonable and equitable allocation of production or costs, the Commissioner shall prescribe an allocation.

9.8. A Utilized Substance produced from one Participating Area ("Originating Participating Area") may be used as an Outside PA Substance ("Injected Substance") for repressuring, recycling, storage or enhanced recovery purposes in another Participating Area ("Receiving Participating Area") only if the State is paid royalty as if the Utilized Substance was saved, removed, or sold by the Working Interest Owners, except as follows:

9.8.1. If the Commissioner consents to the transfer of Utilized Substances between Participating Areas without immediate payment of royalties, the Unit Operator shall provide monthly reports to the State of the transferred Utilized Substance volumes in both the originating and receiving Participating Areas as specified in 11 AAC 04. These monthly reports shall reflect the volumes of any Utilized Substance transferred and the British thermal units ("Btus") in any natural gas Utilized Substance transferred as an Outside PA Substance during the preceding month.

9.8.2. If the Commissioner consents to the transfer of Utilized Substances between Participating Areas without immediate payment of royalties, the royalties shall be paid when the Injected Substances are produced and sold from the Receiving Participating Area. The first natural gas Utilized Substances produced and sold from the Receiving Participating Area shall be considered to be the Injected Substances until a volume of natural gas containing Btus equal to the Btus contained in the Injected Substances is produced and sold from the Receiving Participating Area. All the Utilized Substances produced and sold from a Receiving Participating Area that are considered to be the Injected Substance shall be allocated to the Originating Participating Area. The Working Interest Owners shall pay the State royalties on Injected Substances produced and sold from a Receiving Participating Area as if those Injected Substances were produced and sold from the Originating Participating Area when they were produced from the Receiving Participating Area.

9.9. All liquid hydrocarbons removed in any equipment or facility in Alaska from produced Injected Substances and not used for fuel shall be allocated to the Receiving Participating Area. If liquid hydrocarbons are removed from the natural gas, the Btu content of the natural gas shall be measured after liquid hydrocarbons are removed.

9.10. The Commissioner must approve the deemed recovery rate and commencement date for recovery before any Outside Substance is injected within the Unit Area.

9.11. After giving written notice to the Unit Operator and an opportunity to be heard, the Commissioner will, in his or her discretion, require the Unit Operator to modify from time to time the rate of prospecting and development and the quantity and rate of production from a Participating Area.

9.12. Underground storage shall be covered by separate agreement with the Commissioner.

ARTICLE 10: OFFSET WELLS

10.1. The Unit Operator shall drill such wells as a reasonable and prudent operator would drill to protect the State from loss by reason of drainage resulting from production on other land. Without limiting the generality of the foregoing sentence, if oil or gas is produced in a well on other land not owned by the State or on which the State receives a lower rate of royalty than under any Lease in the Unit Area and that well is within 500 feet in the case of an oil well or 1,500 feet in the case of a gas well of lands then subject to this Agreement, and that well produces oil or gas for a period of 30 consecutive days in quantities that would appear to a reasonable and prudent operator to be sufficient to recover ordinary costs of drilling, completing, and producing an additional well in the same geological structure at an offset location with a reasonable profit to the operator, and if, after notice to the Unit Operator and an opportunity

to be heard. If the Commissioner finds that production from that well is draining and/or subject to the Agreement, the Unit Operator shall within 30 days after written demand by the Commissioner begin in good faith and diligently prosecute drilling operations for an offset well on the Unit Area. In lieu of drilling any well required by this paragraph, the Working Interest Owners must compensate the State in full each month for the estimated loss of royalty through drainage in the amount determined by the Commissioner.

ARTICLE 11: ALLOCATION OF PRODUCTION

11.1 Production and costs will be allocated according to 11 AAC 83.071 and any successor regulation. The Unit Operator shall submit a proposed allocation plan, with supporting data, to the Commissioner for approval. The Commissioner will, in his or her discretion, revise the proposed allocation plan if it does not equitably allocate production and costs from the Reservoir. The Commissioner will give the Unit Operator and Working Interest Owners reasonable notice and an opportunity to be heard before revising the Unit Operator's proposal. The allocation plan must be revised whenever a Participating Area is expanded or contracted. Within thirty days after approval by the Commissioner of any division of interest or allocation formula establishing or revising the Unit Tract Participation of any Unit Tract or Unit Tracts in a Participating Area, the Unit Operator shall submit revised Exhibits C and F to the Commissioner. The Unit Operator may submit a revised Exhibit F anytime, but any revisions to Exhibit F are not effective until approved by the Commissioner.

11.2 The Working Interest Owners shall pay royalties for each Unit Tract in proportion to each Working Interest Owner's ownership in that Unit Tract. The amount of Unitized Substances allocated to each Unit Tract shall be deemed to have been produced from that Unit Tract.

11.3 The Working Interest Owners may allocate Unitized Substances, Participating Area Expense, and Unit Expense differently than described in Exhibits C, E and F. However, that allocation shall not be effective for determining royalty or net profit share payments. The Unit Operator shall submit any allocation which is different than the allocations required in Exhibit C, E or F to the Commissioner under 11 AAC 83.071(b) for the State's information within ten days of its effective date with a statement explaining the reason for the different allocation.

11.4 Royalties shall not be due or payable to the State for the portion of Unitized Substances unavoidably lost or used in the Unit Area for development and production in accordance with prudent industry practices. Gas that is flared for any reason other than safety purposes as allowed by the AOGCC shall not be deemed to be unavoidably lost, and the Working Interest Owners shall pay royalties for such flared gas as if it had been produced. This exemption does not apply to Unitized Substances that are sold, traded or assigned, including sales, transactions, or assignments among the Working Interest Owners.

11.5 If a State Lease committed to this Agreement provides for a discovery royalty rate reduction for the first discovery of oil or gas, that Lease provision shall not apply to a well spaced after the Effective Date.

ARTICLE 12: LEASES, RENTALS AND ROYALTY PAYMENTS

12.1. The Working Interest Owners must pay rentals and royalty payments due under the Leases. Payments to the State shall be made in accordance with the applicable State regulations, 11 AAC 04 and 11 AAC 83.11C.

12.2. Each month, the Unit Operator shall furnish a schedule to the Commissioner. That schedule shall specify for the previous month: 1) the total amount of Unitized Substances produced; 2) the amount of Unitized Substances used for development and production or unavoidably lost; 3) the total amount of Unitized Substances allocated to each Unit Tract; 4) the amount of Unitized Substances

allocated to each Unit Tract and delivered in kind as royalty to the State; and 5) the amount of Utilized Substances allocated to each Unit Tract for which royalty is to be or has been paid to the State.

12.3. Each Working Interest Owner shall pay its share of royalties to the State on Utilized Substances as provided in the Lease, except "leased area" shall mean Unit Area.

12.4. Notwithstanding any contrary Lease term, royalties and the share of Utilized Substances attributable to royalties and any payment due must be paid free and clear of all Lease expenses, Unit Expenses and Participating Area Expenses. These excluded expenses include, but are not limited to, separating, cleaning, dehydration, saltwater removal, processing, compression, pumping, manufacturing costs. These excluded expenses also include the costs of gathering and preparing the Utilized Substances for transportation off the Unit Area and transportation costs incurred within the Unit Area. No lien for any expenses shall attach to royalty Utilized Substances. The royalty share shall bear a proportional part of any gas shrinkage that occurs during gas processing and blending.

12.5. Notwithstanding any contrary Lease term or provision in 11 AAC 85.228—11 AAC 85.229, all royalty deductions for transportation, including marine, truck, and pipeline transportation, from the Unit Area to the point of sale are limited to the actual and reasonable costs incurred by the Working Interest Owners. These transportation costs must be determined by taking into account all tax benefits applicable to the transportation.

12.6. The Unit Operator shall give the Commissioner notice of the anticipated date for commencement of production at least six months before the commencement of Sustained Unit Production from a Participating Area. The Commissioner may take Utilized Substances in-kind in accordance with the following: The Commissioner will give the Unit Operator 90 days written notice of the State's intention to take Utilized Substances in-kind. After taking has actually commenced, the Commissioner may increase or decrease the amount of Utilized Substances taken in-kind by not more than 10 percent, upon 30 days written notice to the Operator; and greater than 10 percent, upon 90 days written notice to the Operator.

12.6.1. The Commissioner will, in his or her discretion, elect to specify the Unit Tracts from which royalty Utilized Substances taken in kind are to be allocated.

12.6.2. The Unit Operator shall deliver the State's royalty Utilized Substances at the custody transfer meter at a common carrier pipeline capable of carrying those substances, or at any other place mutually agreeable place. The State will, in its discretion, designate any individual, firm or corporation to accept delivery.

12.6.3. Royalty Interest Utilized Substances delivered in kind shall be delivered in good and merchantable condition and be of pipeline quality. These substances shall be free and clear of all lease expenses, Unit Expenses, and Participating Area Expenses, and free of any lien for these excluded Expenses. These excluded expenses include, but are not limited to expenses for separating, cleaning, dehydration, saltwater removal, processing, compression, pumping, manufacturing, and the costs of gathering and preparing the Utilized Substances for transportation off the Unit Area and transportation costs within the Unit Area. If a Working Interest Owner processes the Utilized Substances to separate, extract or remove liquids from a Working Interest Owner's share of natural gas Utilized Substances, the State may require that a Working Interest Owner also process the State's share of natural gas Utilized Substances being taken in kind in the same manner without cost to the State. Under these circumstances, the State, or its buyer, shall only pay any tariffed transportation costs and shrinkage of the volume of gas resulting from processing.

12.6.4. Each Working Interest Owner shall furnish storage in or near the Unit Area for the State's share of Utilized Substances to the same extent that the Working Interest Owner provides storage for its own share of Utilized Substances.

12.7. If a purchaser of the State's royalty Utilized Substances does not take delivery of Utilized Substances, the State will, in its discretion elect, without penalty, to uncontract for up to six months. The

State will, in its discretion, underlift all or a portion of those substances. The State's right to underlift is limited to the portion of those substances that the purchaser did not take delivery of or what is necessary to meet an emergency condition. The State shall give the Unit Operator written notice thirty days before the first day of the month in which the underlifted royalty Unitized Substances are to be recovered. The State will, in its discretion, recover at a daily rate not exceeding 25 percent (25%) of its share of daily production, unless otherwise agreed.

12.8. The Unit Operator shall maintain records, and shall keep and have in its possession books and records including expense records, of all exploration, development, production, and disposition of all Unitized Substances and Outside Substances. Each Working Interest Owner shall maintain records of the disposition of its portion of the Unitized Substances and Outside Substances including sales prices, volumes, and purchasers. The Unit Operator and the Working Interest Owners shall permit the Commissioner to examine those books and records at all reasonable times. Upon request by the Commissioner, the Unit Operator and the Working Interest Owners shall make the books and records available to the Commissioner at the Commissioner's office designated by the Commissioner. They may provide these books and records in a mutually agreeable electronic format. These books and records of exploration, development, production, and disposition must employ methods and techniques that will ensure the most accurate figures reasonably available. The Unit Operator and the Working Interest Owners shall use and consistently apply generally accepted accounting procedures.

12.9. If a Lease committed to this Agreement specifies the amount of rent due, that Lease is amended to require that rentals due be calculated under A.S. 38.05.180(r), as amended. If a Lease committed to this Agreement requires payment of minimum royalty, that Lease is amended to delete that minimum royalty obligation. The rental due under State law, as amended, must be paid in lieu of minimum royalty.

12.10. All rights and obligations relating to the State's net profit share will be determined in accordance with 11 AAC 83.201 - 11 AAC 83.295, as amended, notwithstanding any contrary Lease term. The State may audit the net profit share reports or payments due for any Lease within ten years of the year of production of Unitized Substances in Paying Quantities. The period of limitations for the State to file a lawsuit relating to an audit of a net profit share report or payment shall be three years longer than the audit period. The Working Interest Owners holding interests in net profit share Leases shall maintain the records relevant to determination of net profit share until the audit period has expired.

ARTICLE 13: UNIT EXPANSION AND CONTRACTION

13.1. The Unit Operator, at its own election may, or at the direction of the Commissioner shall, apply to expand the Unit Area to include any additional lands determined to overlie a Reservoir that is at least partially within the Unit Area, or to include any additional lands that facilitate production. The Commissioner will give the Unit Operator reasonable notice and an opportunity to be heard before any directed expansion of the Unit Area. The Unit Operator shall notify the Working Interest Owners of any expansion proposed by the Unit Operator or any third party, or proposed or directed by the Commissioner. Any unit expansion shall not be effective until approved by the Commissioner.

13.2. Ten years after Sustained Unit Production begins, the Unit Area must be contracted to include only those lands then included in an approved Participating Area, lands included in an Approved Unit Plan of Exploration or Development, and lands that facilitate production including the immediately adjacent lands necessary for secondary or tertiary recovery, pressure maintenance, reinjection, or cycling operations. The Commissioner may, after considering the provisions of 11 AAC 83.303, delay contraction of the Unit Area if the circumstances of a particular unit warrant. If a portion of a Lease contracts out of the unit, that portion will be severed and treated as a separate and distinct lease, which may be maintained thereafter only in accordance with the terms and conditions of the original lease. The Working Interest Owners waive the provisions of 11 AAC 83.356(b), which prevent the Lease from severance when a portion of a lease is contracted out of the Unit Area.

13.3. Not sooner than 10 years after the effective date of this Agreement, the Commissioner may contract the Unit Area to include only that land covered by an Approved Unit Plan of Exploration or Development, or that area underlain by one or more oil or gas reservoirs or one or more potential hydrocarbon accumulations and lands that facilitate production. If a portion of a Lease contracts out of the Unit Area, that portion will be severed and treated as a separate and distinct lease, which may be maintained thereafter only in accordance with the terms and conditions of the original lease. The Working Interest Owners waive the provisions of 11 AAC 83.358(a) which protect the Lease from severance when a portion of a Lease is contracted out of the Unit Area. Before any contraction of the Unit Area under this Article 13.3, the Commissioner will give the Unit Operator, the Working Interest Owners, and the Royalty Interest Owners of the Leases or portions of Leases being excluded reasonable notice and an opportunity to be heard.

13.4. The Commissioner will give the Unit Operator reasonable notice and an opportunity to be heard before any direct contraction of the Unit Area. The Unit Operator shall notify the Working Interest Owners of any proposed, directed, or approved contraction of the Unit Area. Any unit contraction shall not be effective until approved by the Commissioner.

13.5. The Unit Area may be contracted with the Commissioner's approval and an affirmative vote of the Working Interest Owners.

13.6. Within thirty days after approval by the Commissioner of any expansion or contraction of the Unit Area, the Unit Operator shall submit revised Exhibits A and B to the Commissioner.

ARTICLE 14: UNIT EFFECTIVE DATE, TERM AND TERMINATION

14.1. This Agreement is effective as of 12:01 a.m. on the day after the Commissioner approves it. At least one copy of this Agreement shall be filed with the Department of Natural Resources, Anchorage, Alaska and one copy shall be filed with the ADGCC. This Agreement is binding upon each party who signs any counterpart.

14.2. Subject to the terms and conditions of the Approved Unit Plan, this Agreement terminates five years from the Effective Date unless:

14.2.1. A unit well in the Unit Area has been certified as capable of producing Unitized Substances in Paying Quantities; or

14.2.2. The unit term is extended with the approval of the Commissioner. An extension shall not exceed five years.

14.3. If the Commissioner orders or approves a suspension of production or other Unit Operations, this Agreement shall continue in force during the authorized suspension.

14.4. Nothing in this Article holds in abeyance the obligations to pay rentals, royalties, or other production or profit-based payments to the State from operations or production in any part of the Unit Area. Any seasonal restriction on operations or production or other condition required in the Lease is not a suspension of operations or production required by law or force majeure.

14.5. This Agreement may be terminated by an affirmative vote of the Working Interest Owners and the Commissioner's approval.

ARTICLE 15: EFFECT OF CONTRACTION AND TERMINATION

15.1 If a Lease or portion of a Lease is contracted out of the Unit Area under this Agreement, then it will be maintained only in accordance with State law and the Lease.

15.2 Each Lease committed to this Agreement on the day that this Agreement terminates shall remain in force for an extension period of ninety days, or any longer period which may be approved by the Commissioner. After the extension period expires, the Lease will be maintained only in accordance with State law and the Lease.

15.3 Upon the expiration or earlier termination of the unit, the Unit Operator will be directed in writing by the Commissioner and will have the right at any time within a period of one year after the termination, or any extension of that period as may be granted by the Commissioner, to remove from the Unit Area all machinery, equipment, tools, and materials. Upon the expiration of that period or extension of that period and at the option of the Commissioner, any machinery, equipment, tools, and materials that the Unit Operator has not removed from the Unit Area become the property of the State or may be removed by the State at the Working Interest Owners' expense. At the option of the State, all improvements such as roads, pads, and wells must either be abandoned and the sites rehabilitated by the Unit Operator to the satisfaction of the State, or be left intact and the Unit Operator absolved of all further responsibility as to their maintenance, repair, and eventual abandonment and rehabilitation. Subject to the above conditions, the Unit Operator shall deliver up the Unit Area in good condition.

ARTICLE 16: COUNTERPARTS

16.1 The signing of counterparts of this Agreement shall have the same effect as if all parties had signed a single original of this Agreement. Within thirty days after approval by the Commissioner of any change of the Working Interest ownership of Oil and Gas Rights in any Unit Tract, the Unit Operator shall submit a revised Exhibits A and C to the Commissioner.

ARTICLE 17: LAWS AND REGULATIONS

17.1 This Agreement is subject to all applicable State and federal statutes and regulations in effect of the Effective Date of this Agreement, and insofar as is constitutionally permissible, to all statutes and regulations placed in effect after the Effective Date of this Agreement. A reference to a statute or regulation in this Agreement includes any change in that statute or regulation whether by amendment, repeal and replacement, or other means. This Agreement does not limit the power of the State of Alaska or the United States of America to enact and enforce legislation or to promulgate and enforce regulations affecting, directly or indirectly, the activities of the parties to this Agreement or the value of interests held under this Agreement. In case of conflicting provisions, statutes and regulations take precedence over this Agreement.

ARTICLE 18: APPEARANCES AND NOTICES

18.1 If the State gives the Unit Operator a notice or order relating to this Agreement it shall be deemed given to all Working Interest Owners and all persons whose interest in the Unit Area derived from a Working Interest. All notices required by this Agreement shall be given in writing and delivered personally, or by United States mail or by facsimile machine to the Unit Operator at the address or facsimile number listed below. All notices actually received will also be deemed properly given. The Unit

Operator will change its notice address by giving thirty days written notice to the State and the other Working Interest Owners. The State will change its notice address by giving thirty days written notice to the Unit Operator.

Address of the Unit Operator:

Fax:

Address of the State:

Commissioner, Department of Natural Resources
550 West Seventh Avenue, Suite 1400
Anchorage, Alaska 99501-3554
Fax: (907) 269-8918

with a copy to:

Director, Division of Oil and Gas
550 West Seventh Avenue, Suite 800
Anchorage, Alaska 99501-3560
Fax: (907) 269-8938

ARTICLE 19: JOINDER

19.1 The Commissioner will, in his or her discretion, order or upon request approve a joinder to this Agreement under the expansion provisions of Article 13. The Unit Operator shall submit a request for joinder with a signed counterpart of this Agreement and a notice of proposed expansion under Article 13. A joinder is subject to the requirements of the Unit Operating Agreement. However, the Commissioner will, in his or her discretion, modify any provision in a Unit Operating Agreement which the Commissioner finds discriminates against parties who request joinder. The Commissioner shall give notice and an opportunity to be heard to the Unit Operator before modifying the Unit Operating Agreement.

ARTICLE 20: DEFAULT

20.1 The Commissioner will, in his or her discretion, determine that failure of the Unit Operator or the Working Interest Owners to comply with any of the terms of this Agreement, including any Approved Unit Plan, is a default under this Agreement. The failure to comply because of force majeure is not a default.

20.2 The Commissioner will give notice to the Unit Operator and the Working Interest Owners of the default. The notice will describe the default, and include a demand to cure the default by a certain date. The cure period shall be at least thirty days for a failure to pay rentals or royalties and ninety days for any other default.

20.3 If there is no well certified as capable of producing Utilized Substances in Paying Quantities and a default is not cured by the date indicated in the demand, the Commissioner will, in his or

nor discretion, terminate this Agreement after giving the Unit Operator notice and an opportunity to be heard. The Commissioner will give notice, by mail, of the termination, which is effective upon mailing the notice.

20.4 If there is a well capable of producing Utilized Substances in Paying Quantities and the operations to cure the default are not completed by the date indicated in the demand, the Commissioner will terminate this Agreement by judicial proceedings.

20.5 This Article's remedies are in addition to any other administrative or judicial remedy provided for by Lease, this Agreement, or federal or State law.

IN WITNESS OF THE FOREGOING, the parties have executed this Unit Agreement on the dates opposite their respective signatures.

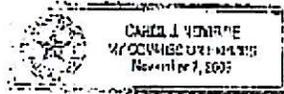
WORKING INTEREST OWNERS

By: [Signature] Date: 11/30/06
JERRY S. DAVIS
President
(Company Name, signatory's printed name and title)

STATE OF TEXAS)
) §
COUNTY OF HARRIS)

This certifies that on November 30th, 2006, before me, a notary public in and for the State of Texas, duly commissioned and sworn, personally appeared JERRY S. DAVIS, known to me to be the person described in, and who executed the foregoing agreement, who then after being duly sworn according to law, acknowledged to me under oath that he executed same freely and voluntarily for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above written.



[Signature]
NOTARY PUBLIC in and for Alaska
My Commission Expires: 11/7/07

By: _____ Date: _____

(Company Name, signatory's printed name and title)

STATE OF ALASKA)
) §
THIRD JUDICIAL DISTRICT)

This certifies that on November _____, 2006, before me, a notary public in and for the State of Alaska, duly commissioned and sworn, personally appeared _____, known to me to be the person described in, and who executed the foregoing agreement, who then after being duly sworn according to law, acknowledged to me under oath that he executed same freely and voluntarily for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above written.

NOTARY PUBLIC in and for Alaska
My Commission Expires: _____

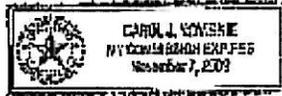
WORKING INTEREST OWNERS

By: *Robert G. Taylor* Date: 12-11-06
Principal Taylor Pitman LLC
(Company Name, signatory's printed name and title)

STATE OF ALASKA TEXAS }
COUNTY OF HARRIS } §
THIRD JUDICIAL DISTRICT }

This certifies that on November 11, 2006, before me, a notary public in and for the State of TEXAS, duly commissioned and sworn, personally appeared Robert G. Taylor, known to me to be the person described in and who executed the foregoing agreement, who then after being duly sworn according to law, acknowledged to me under oath that he executed same freely and voluntarily for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above written.



Carol J. Koskie
NOTARY PUBLIC in and for Alaska, STATE OF TEXAS
My Commission Expires: 11/7/07

By: _____ Date: _____
(Company Name, signatory's printed name and title)

STATE OF ALASKA }
THIRD JUDICIAL DISTRICT } §

This certifies that on November _____, 2000, before me, a notary public in and for the State of Alaska, duly commissioned and sworn, personally appeared _____, known to me to be the person described in and who executed the foregoing agreement, who then after being duly sworn according to law, acknowledged to me under oath that he executed same freely and voluntarily for the uses and purposes therein mentioned.

WITNESS my hand and official seal the day and year in this certificate first above written.

NOTARY PUBLIC in and for Alaska
My Commission Expires: _____

Attachment 5: Modifications to State Model form in Kitchen Unit Agreement

Amendments to the State Only Model Form, dated January 2006

NOTE. Text that is underlined indicates where text has been added and text that has the strikethrough font indicates where text has been deleted.

ARTICLE 9: PARTICIPATING AREAS

9.1 *Amend the last sentence to read:*

The Unit Operator shall notify the Commissioner before the commencement of Sustained Unit Production within 10 days after commencement from each Participating Area.

9.0.1 *Amend the first sentence to read:*

If the Commissioner consents to the transfer of Utilized Substances between Participating Areas without immediate payment of royalties, the Unit Operator shall provide monthly reports to the State of the transferred Utilized Substance volumes in both the originating and receiving Participating Areas as specified in 11 AAC 04.

ARTICLE 11: ALLOCATION OF PRODUCTION

11.1 *Amend the fourth sentence to read:*

The Commissioner will give the Unit Operator and Working Interest Owners reasonable notice and an opportunity to be heard before revising the Unit Operator's proposal.

ARTICLE 12: LEASES, RENTALS AND ROYALTY PAYMENTS

12.1 *Amend article to read:*

The Working Interest Owners shall pay rentals and royalty payments due under the Leases. Payments to the State must be made in accordance with the applicable State regulations, 11 AAC 04 and 11 AAC 83.110. These payments must be made to any depository designated by the State with at least sixty days notice to the Unit Operator and the Working Interest Owners.

12.4 *Amend third sentence to read:*

These excluded expenses also include the costs of gathering and preparing the Utilized Substances for transportation off the Unit Area and gathering and transportation costs incurred within the Unit Area incurred before the Utilized Substances are delivered to a common carrier pipeline,

12.5 *Amend article to read:*

Notwithstanding any contrary Lease term or provision in 11 AAC 83.223—11 AAC 83.228, all royalty deductions for transportation, including marine, truck, and pipeline transportation, from the Unit Area to the point of sale are limited to the actual and reasonable costs incurred by the Working Interest Owners. These transportation costs must be determined by taking into account all tax benefits applicable to the transportation.

12.5 Amend article to read:

The Unit Operator shall give the Commissioner notice of the anticipated date for commencement of production at least six months before the commencement of Sustained Unit Production from a Participating Area. The Commissioner may take Utilized Substances in-kind in accordance with the following: ~~Within ninety days of receipt of that notice, The Commissioner will give the Working Interest Owners Unit Operator 90 days written notice of its the State's initial elections to take Utilized Substances in-kind on a, a specified percentage, or a specified quantity of its royalties in any Utilized Substances produced from the Participating Area. After taking has actually commenced, the Commissioner will, in his or her discretion, may increase or decrease (including ceasing to take royalty Utilized Substances in-kind) the amount of royalty Utilized Substances the State takes taken in-kind by not more than 10 percent, upon 30 days written notice to the Unit Operator; and greater than 10 percent, upon 90 days written notice to the Unit Operator. The Commissioner shall give written notice to the Working Interest Owners ninety days before the first day of the month in which an increase or decrease is to be effective.~~

12.5.3 Amend article to read:

Royalty Interest Utilized Substances delivered in-kind shall be delivered in good and merchantable condition and be of pipeline quality. Those substances shall be free and clear of all lease expenses, Unit Expenses, and Participating Area Expenses, and free of any lien for these excluded expenses. These excluded expenses include, but are not limited to, expenses for separating, cleaning, dehydration, saltwater removal, processing, compression, pumping, manufacturing, and the costs of gathering and preparing the Utilized Substances for transportation off the Unit Area and transportation costs within the Unit Area. If a Working Interest Owner processes the Utilized Substances to separate, extract or remove liquids from a Working Interest Owner's share of natural gas Utilized Substances, the State will, in its discretion, may require that a Working Interest Owner also process the State's share of natural gas Utilized Substances being taken in-kind in the same manner without cost to the State. Under those circumstances, the State, or its buyer, shall only pay any tariffed transportation costs and shut-in fee of the volume of gas resulting from processing.

12.8 Replace article to read:

The Unit Operator shall maintain records, and shall keep and have in its possession books and records including expense records, of all exploration, development, production, and disposition of all Utilized Substances and Outside Substances. Each Working Interest Owner shall maintain records of the disposition of its portion of the Utilized Substances and Outside Substances including sales prices, volumes, and purchasers. The Unit Operator and the Working Interest Owners shall permit the Commissioner or its agents to examine those books and records at all reasonable times. Upon request by the Commissioner, the Unit Operator and the Working Interest Owners shall make the books and records available to the Commissioner at the Commissioner's office designated by the Commissioner. They may provide these books and records in a mutually agreeable electronic format. These books and records of exploration, development, production, and disposition must employ methods and techniques that will ensure the most accurate figures reasonably available. The Unit Operator and the Working Interest Owners shall use and consistently apply generally accepted accounting procedures.

12.10 Amend second sentence to read:

The State will, ~~in its discretion, may~~ audit the net profit share reports or payments due for any Lease within ten years of the date year of production of Utilized Substances in Paying Quantities.

13.2 Amend Article to read:

10 years after Sustained Unit Production begins, the Unit Area must be contracted to include only those lands then included in an approved Participating Area, lands included in an Approved Unit Plan of Exploration or Development, and lands that facilitate production including the immediately adjacent lands necessary for secondary or tertiary recovery, pressure maintenance, re-jection, or cycling operations. The Commissioner will, in the Commissioner's discretion, may, after considering the provisions of 11 AAC 83.302, deny contraction of the Unit Area if the circumstances of a particular unit warrant. If a portion of a Lease contracts out of the unit, that portion will be severed and treated as a separate and distinct lease, which may be maintained hereafter only in accordance with the terms and conditions of the original lease. The Working Interest Owners waive the provisions of 11 AAC 83.356(b), which protect the Lease from severance when a portion of a lease is contracted out of the Unit Area. If any portion of a Lease is included in the Participating Area, the portion of the Lease outside the Participating Area will neither be severed nor will it continue to be subject to the terms and conditions of the unit. The portion of the Lease outside the Participating Area will continue in full force and effect as long as production is allocated to the unutilized portion of the Lease and the lessee satisfies the remaining terms and conditions of the Lease.

13.3 Amend Article to read:

Not sooner than 10 years after the effective date of this Agreement, the Commissioner will, in the Commissioner's discretion, may contract the Unit Area to include only that land covered by an Approved Unit Plan, or that area underlain by one or more oil or gas reservoirs or one or more potential hydrocarbon accumulations and lands that facilitate production. If a portion of a Lease contracts out of the Unit Area, that portion will be severed and treated as a separate and distinct lease, which may be maintained thereafter only in accordance with the terms and conditions of the original lease. The Working Interest Owners waive the provisions of 11 AAC 83.356(a), which protect the Lease from severance when a portion of a Lease is contracted out of the Unit Area. Before any contraction of the Unit Area under this Article 13.3, the Commissioner will give the Unit Operator, the Working Interest Owners, and the Royalty Royalty Interest owners Owners of the Leases or portions of Leases being excluded reasonable notice and an opportunity to be heard.

Attachment 6

Comments and Correspondence



December 30, 2006

Mr. Art Copoulos
Petroleum Land Manager
Division Of Oil and Gas
550 West 7th Ave, Suite 800
Anchorage, Alaska 99501

art@alaska.gov

Re: Kitchen and North Alexander Unit Applications

Dear Art:

After our conversation this morning I would like to make the State aware of the fact that Escopeta incorrectly included part of the Forest Oil Company's acreage in both Kitchen and North Alexander Unit Agreements. Escopeta does not consent any of Forest's acreage included in the Kitchen and North Alexander Units. Escopeta will be amending and re-filing both Unit Agreement Exhibits that define the unit acreage. In order to delete ADE #3889923 and ADE #3889587 from the Kitchen Unit and ADE # 3890585 from the North Alexander Unit.

I have included a copy of the original Exhibit "B" 's with the deleted acreage colored in red. These amendments will be filed at your office within the next two to three business days. We are very sorry for any inconvenience Escopeta has caused for this oversight.

Please contact me immediately if you have any questions.

Yours truly,

Jeffrey S. Davis

2006 January 30th 4400 - 4th Ave. Suite 220 Anchorage, Alaska 99503-2219 - Fax: 907-249-1725 - E-mail: art@alaska.gov