

Section Three

Oil and Gas Units

North Slope Cook Inlet Non-Unitized Production Fields and Pools

Oil and Gas Units

TABLE 3.1 OIL & GAS UNITS

| | |
|---------------------|---------------------------|
| | COOK INLET NORTH |
| | Pioneer |
| | Stump Lake |
| | Lewis River |
| | Pretty Creek |
| | Beluga |
| | North Cook Inlet |
| NORTH SLOPE WEST | |
| Colville River | |
| Ooguruk | |
| Kuparuk River | |
| | COOK INLET CENTRAL |
| | South Granite Point |
| | Nicolai Creek |
| | North Trading Bay |
| | Trading Bay |
| | West McArthur River |
| | South Middle Ground Shoal |
| | Redoubt |
| | Birch Hill |
| | Swanson River |
| | Beaver Creek |
| | Sterling |
| | Cannery Loop |
| | Kenai River |
| NORTH SLOPE CENTRAL | |
| Milne Point | |
| Prudhoe Bay | |
| Northstar | |
| Duck Island | |
| | COOK INLET SOUTH |
| | Kasilof |
| | Ninilchik |
| | South Ninilchik |
| | Deep Creek |
| | Cosmopolitan |
| | North Fork |
| NORTH SLOPE EAST | |
| Badami | |
| Point Thomson | |

Oil and Gas Units

Unitization

Unitization is the grouping or pooling of working interest and royalty ownership in oil and gas leases that overlay a common petroleum reservoir. It is the accepted method for developing an oil or gas pool in a manner that maximizes ultimate recovery, prevents economic and physical waste, and protects the rights of all parties with an ownership interest in the accumulation. When leases are unitized, operators can eliminate redundancy and waste by sharing infrastructure and facilities, and by adopting unified reservoir management plans. Without unitization, unregulated development can result in overly dense drilling, rapid loss of reservoir pressure, and undesired production of formation fluids. Unitization minimizes impacts to the environment, protects the value of leases, and ensures efficient energy extraction.

Unit Formation

The unitization process begins when lessees identify a prospect. The lessees in the proposed unit area select a Unit Operator. A unit operator must be qualified to hold a lease as provided in 11 AAC 82.200 - 11 AAC 82.205 , and must be qualified to fulfill the duties and obligations prescribed in the Unit Agreement. A Unit Agreement defines a contractual relationship between the state, the royalty owners, and the working interest owners of the oil and gas leases included in the unit. The Unit Operator and the state negotiate the terms of the Unit Plan of Exploration or Development for the entire unit area, and the boundaries of the unit area (11 AAC 83.341). All lessees who hold an interest in the reservoir must be invited to join the unit. The Director then writes a Decision and Finding approving or disapproving the unit application. Unitization extends a lease beyond its initial primary term.



Gil Mull



C. Ruff

Participating Areas

After delineation drilling and testing, the Unit Operator proposes a participating area within the boundaries of the unit. The Unit Operator must submit a participating area application 90-days before sustained production from a reservoir. Only those lands known to be capable of producing in paying quantities or capable of contributing to production are included in the participating area (11 AAC 83.351). The Unit Operator and state agree on a tract allocation schedule for leases in the participating area. Production volumes and costs are allocated to each tract. An oil and gas unit can have one or more participating areas within its boundaries

depending on the geology of the area. Participating areas are described laterally and sometimes limited or defined by depth. After a stated period of time, usually 5 or 10 years to explore and delineate the pools in the unit, the unit boundary contracts down to the area that is contributing to production. The boundaries of the participating area must conform as close as possible to the boundaries of the oil or gas pool.

Unitization Criteria

The Director considers the following criteria when evaluating a unit or participating area application. Does the application,

- promote conservation of all natural resources, including all or part of an oil or gas pool, field, or like area;
- promote the prevention of economic and physical waste; and
- provide for the protection of all parties of interest, including the state.

In evaluating the above criteria, the Director considers

- the environmental costs and benefits of unitized exploration or development;
- the geological and engineering characteristics of the potential hydrocarbon accumulation or reservoir proposed for unitization;
- prior exploration activities in the proposed unit area;
- the applicant's plans for exploration or development of the unit area;
- the economic costs and benefits to the state; and
- any other relevant factors, including measures to mitigate impacts identified above, the commissioner determines necessary or advisable to protect the public interest.

The Unitization process takes about 100 days from the time of filing a complete unit application.

A complete application includes:

- 1) the unit agreement, including exhibits required under 11 AAC 83.341 or 11 AAC 83.343 , executed by the proper parties;
- 2) the unit operating agreement executed by the working-interest owners, which is submitted for information only and does not require the commissioner's approval for adoption or amendment;
- 3) evidence of reasonable effort made to obtain Joinder of any proper party who has refused to join the unit agreement;
- 4) all pertinent geological, geophysical, engineering, and well data, and interpretations of those data, directly supporting the application;
- 5) an explanation of proposed modifications, if any, of the standard state unit agreement form; and
- 6) the application fee prescribed by 11 AAC 05.010

Within 10-days of receipt of a complete application, a public notice is published initiating a 30-day comment period.

Plans of Exploration and Development

The Unit Operator and state must also agree on an initial Unit Plan of Exploration or Development 11 AAC 83.343. In concert with the Unit Agreement and Plans of Exploration, Development and Operation, a Unit Operating Agreement is drafted describing how expenses and revenues are distributed or paid among the Working Interest Owners in the unit. Unit Operators must submit an annual Plan of Development for approval (11 AAC 83.343). Often unit areas are explored and developed at the same time. Failure to meet the goals, objectives, and commitments in the Plan of Exploration or Development can result in default and unit termination.



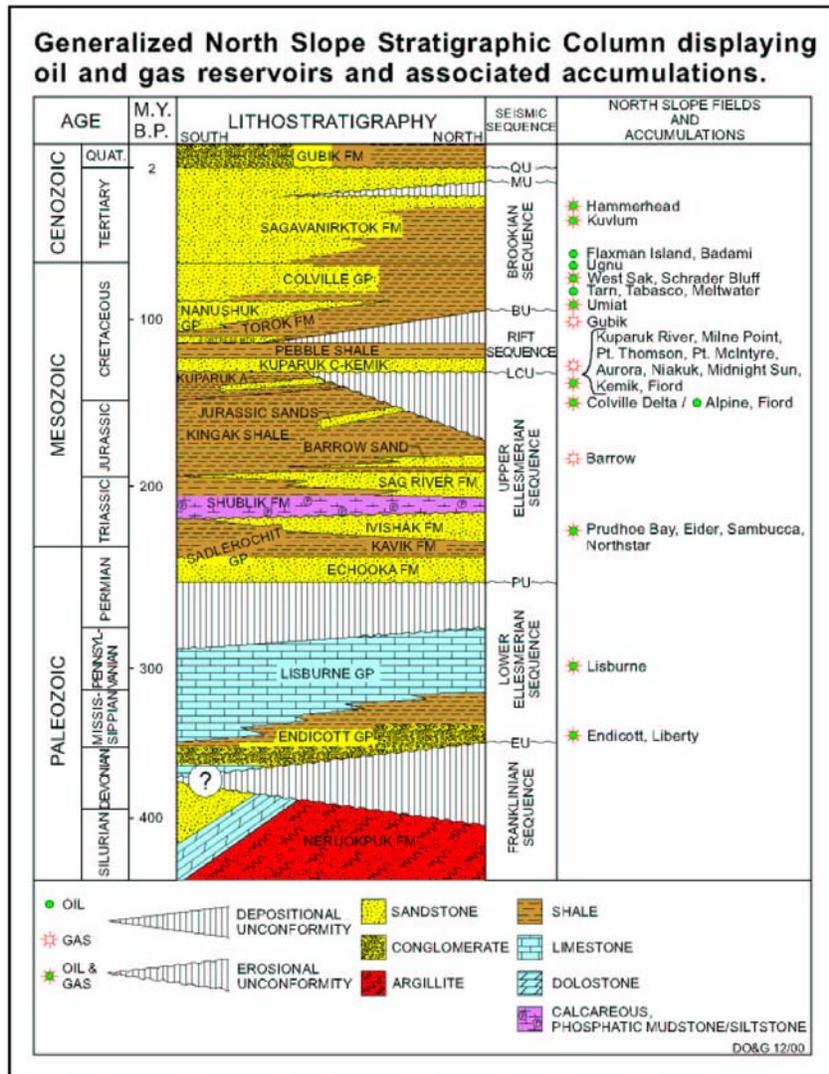
C. Ruff

Unit Maps:

The following pages describe each unit. Units can be located on one of five unit maps:



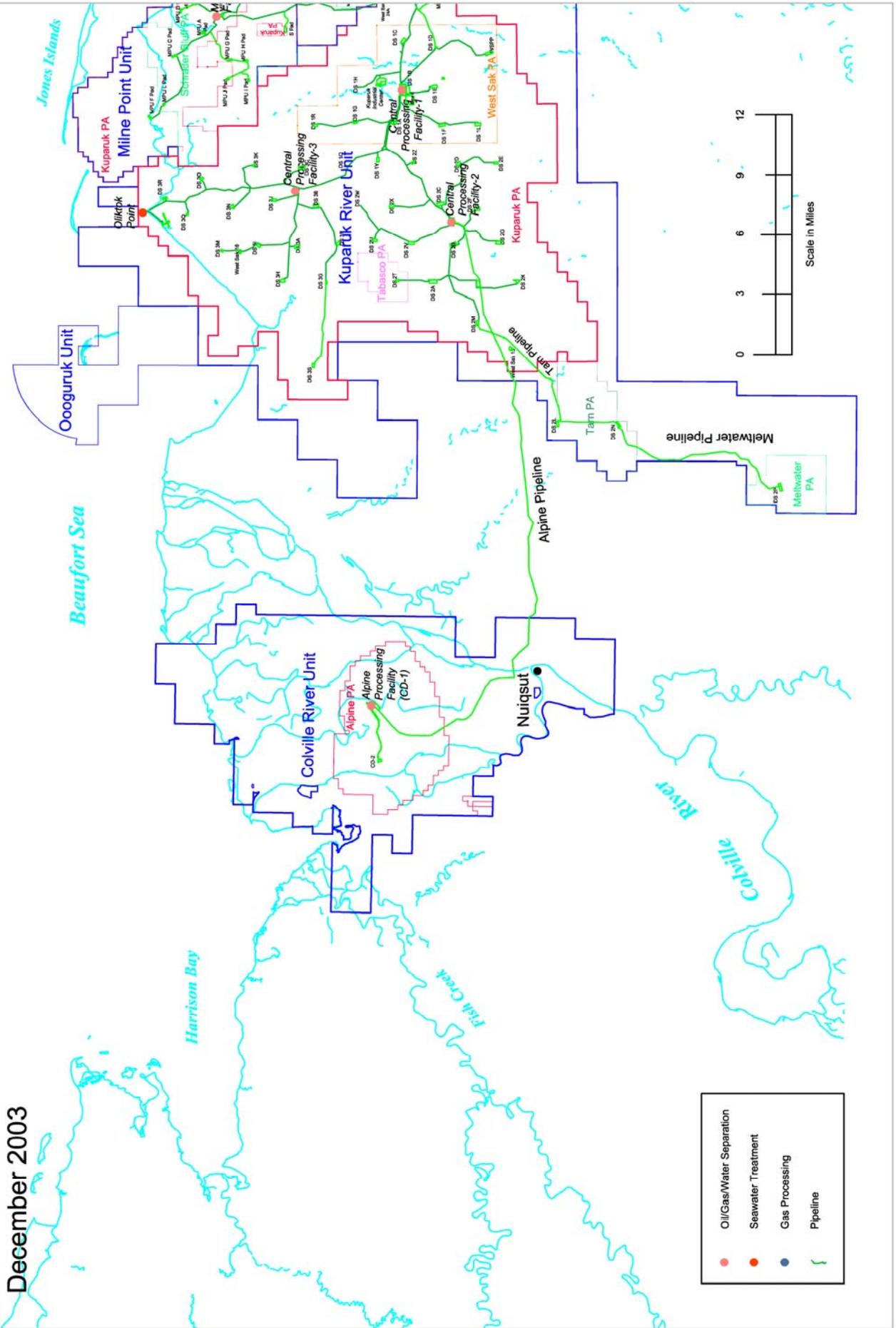
Generalized North Slope Stratigraphic Column



North Slope Units and Facilities

Alaska Department of Natural Resources, Division of Oil & Gas

December 2003



Oil and Gas Units

North Slope



C. Ruff

Colville River Unit

Status: Producing Oil and Gas
Royalty Ownership: State of Alaska and Arctic Slope Regional Corporation
Operator: ConocoPhillips (Alaska), Inc.
Acres: 75,631
First Production: 2000

Alpine PA

Status: Producing
Discovery: 1994, ARCO Bergschrund #1
Reservoir: Jurassic Kingak Formation, Alpine sandstone (-6,850 ft.)
Working Interest: ConocoPhillips (Alaska), Inc. 56%
Anadarko Petroleum Corp. 22%
ConocoPhillips Alpine AK, LLC 22%

Nanuk Tract Operation

Status: Producing
Discovery: 2000, ARCO Nanuk #2
Reservoir: Cretaceous Torok Fm., Nanuq sandstone (-6,140 ft.)
Working Interest: ConocoPhillips (Alaska), Inc. 56%
Anadarko Petroleum Corp. 22%
ConocoPhillips Alpine AK, LLC 22%

Fiord Discovery

Status: Undeveloped
Discovery: 1992, ARCO Fiord #1
Reservoir: Kuparuk/Nechelik sandstones (-6,890 ft. and -7,400 ft.)
Working Interest: ConocoPhillips (Alaska), Inc. 56%
Anadarko Petroleum Corp. 22%
ConocoPhillips Alpine AK, LLC 22%



B. Havelock

Oil and Gas Units

North Slope

Kuparuk River Unit



S. Schmitz

Status: Producing Oil and Gas
 Royalty Ownership: State of Alaska
 Operator: ConocoPhillips Alaska, Inc.
 Acres: 275,965
 First Production: 1981

Kuparuk PA

Status: Producing
 Discovery: 1969, Sinclair Ugnu #1
 Reservoir: Cretaceous Kuparuk Formation
 (-5,600 ft subsea)
 Working Interest: BP Exploration (Alaska), Inc. 39%
 ConocoPhillips 55%
 Unocal 5%
 Chevron U.S.A., Inc./ExxonMobil 1%

Meltwater PA



B. Havelock

Status: Producing
 Discovery: 2000, ARCO Meltwater North #1
 Reservoir: Late Cretaceous Seabee Fm.
 Bermuda/Cairn sand
 Working Interest: BP Exploration (Alaska), Inc. 39%
 ConocoPhillips 55%
 Unocal 5%
 Chevron U.S.A., Inc./ExxonMobil 1%

Tabasco PA

Status: Producing
 Discovery: 1986, ARCO Kuparuk River Unit #2T-02
 Reservoir: Cretaceous Colville Group
 Tabasco sand
 Working Interest: BP Exploration (Alaska), Inc. 39%
 ConocoPhillips 55%
 Unocal 5%
 Chevron U.S.A., Inc./ExxonMobil 1%

Tarn PA

Status: Producing
 Discovery: 1991, ARCO KRU Bermuda #3
 Reservoir: Late Cretaceous Seabee Fm.,
 Bermuda sand (-4,376 to -5,990 ft)
 Working Interest: BP Exploration (Alaska), Inc. 39%
 ConocoPhillips 55%
 Unocal 5%
 Chevron U.S.A., Inc./ExxonMobil 1%

Kuparuk River Unit, Cont.

West Sak PA

| | |
|-------------------|---|
| Status: | Producing |
| Discovery: | West Sak River State #1 |
| Reservoir: | Cretaceous Colville Group Tabasco sand |
| Working Interest: | BP Exploration (Alaska), Inc. 39% ConocoPhillips Alaska, Inc. 55% Chevron U.S.A., Inc./ExxonMobil 1% Unocal 5% |



S. Schmitz



S. Schmitz

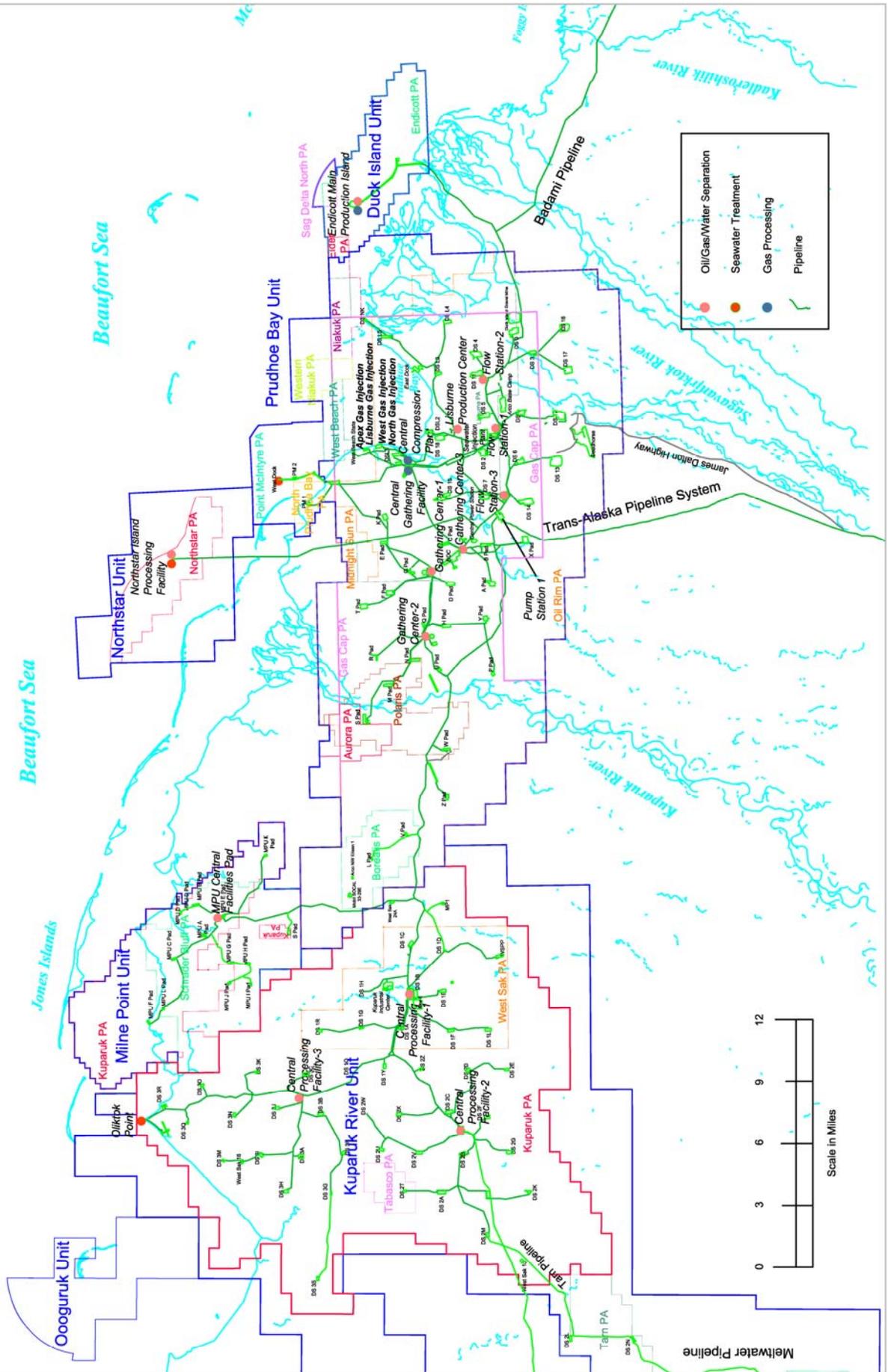
Oooguruk Unit

| | |
|--------------------|--|
| Status: | Exploration |
| Royalty Ownership: | State of Alaska |
| Operator: | Pioneer Natural Resources, Inc. |
| Acres: | 20,394 |
| Working Interest: | Pioneer Alaska, Inc. 70% Armstrong Alaska, Inc. 30% |

North Slope Units and Facilities

Alaska Department of Natural Resources, Division of Oil & Gas

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Oil and Gas Units

North Slope



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Milne Point Unit

| | |
|--------------------|-------------------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | BP Exploration (Alaska), Inc. |
| Acres: | 68,830 |
| First Production: | 1985 |

Kuparuk PA

| | |
|-------------------|--|
| Status: | Producing |
| Discovery: | 1969, Chevron Kavearak Pt. #32-25 1993, BP Cascade #1 |
| Reservoir: | Cretaceous Kuparuk Formation (-7,200 ft subsea) |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |

Schrader Bluff PA

| | |
|-------------------|---|
| Status: | Producing |
| Discovery: | 1969, Chevron Kavearak Pt. #32-25 |
| Reservoir: | Cretaceous Colville Group Schrader Bluff Fm. |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |

Sag River Tract Operations (Undefined Pool)

| | |
|-------------------|------------------------------------|
| Status: | Producing |
| Discovery: | 1969, Chevron Kavearak Pt. #32-25 |
| Reservoir: | Sag River and Ivishak formations |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |

Oil and Gas Units

North Slope



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Prudhoe Bay Unit

Status: Producing Oil and Gas
Royalty Ownership: State of Alaska
Operator: BP Exploration (Alaska), Inc.
Acres: 273,397
First Production: 1977
Working Interest: ExxonMobil Alaska Production, Inc. 36.39%
(Aligned for all PA's ConocoPhillips Alaska, Inc. 36.07%
~December 2001) BP Exploration (Alaska), Inc. 26.36%
Chevron USA 1.16%
Forest Oil Corporation 0.02%

Aurora PA

Status: Producing
Discovery: 1969, Mobil North Kuparuk State #1
Reservoir: Cretaceous Kuparuk Formation

Borealis PA

Status: Producing
Discovery: 1969, Mobil West Kuparuk State #1
Reservoir: Cretaceous Kuparuk Formation

Gas Cap PA

Status: Producing
Discovery: 1968, Richfield Prudhoe Bay State #1
Reservoir: Triassic Ivishak Sandstone
(-8,800 ft subsea)

Lisburne PA

Status: Producing
Discovery: 1968, Richfield Prudhoe Bay State #1
Reservoir: Mississippian Lisburne Group

Midnight Sun PA

Status: Producing
Discovery: 1997, BP Prudhoe Bay Un MDS #E-100
Reservoir: Cretaceous Kuparuk Formation

Niakuk PA

Status: Producing
Discovery: 1985, BP Niakuk #5
Reservoir: Cretaceous Kuparuk Formation (-9,350 ft.)

Prudhoe Bay Unit, Cont.



Steve Schmitz

North Prudhoe Bay PA

Status: Producing
Discovery: 1970, ARCO North Prudhoe Bay State #1
Reservoir: Triassic Sadlerochit Group

Oil Rim PA

Status: Producing
Discovery: 1968, Richfield Prudhoe Bay State #1
Reservoir: Triassic Ivishak sandstone (-8,800 ft subsea)

Polaris PA

Status: Producing
Discovery: 1969, Mobil North Kuparuk State #1
Reservoir: Cretaceous Colville Group, Schrader Bluff Fm.

Point McIntyre PA

Status: Producing
Discovery: 1988, ARCO Pt. McIntyre #3A
Reservoir: Cretaceous Kuparuk Formation



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West Beach PA

Status: Producing
Discovery: 1976, ARCO West Beach #3
Reservoir: Cretaceous Kuparuk Formation

Western Niakuk PA

Status: Producing
Discovery: 1985, BP Niakuk #5
Reservoir: Cretaceous Kuparuk Formation (-9,350 ft.)

Oil and Gas Units

North Slope



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| | |
|--------------------|-------------------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | State of Alaska/United States |
| Operator: | BP Exploration (Alaska), Inc. |
| Acres: | 23,343 |
| First Production: | 2001 |

Northstar Unit

Northstar PA

| | |
|-------------------|--|
| Status: | Producing |
| Discovery: | 1984, Shell BF-47 (Seal Island) #1 |
| Reservoir: | Triassic Ivishak Sandstone (-11,000 ft. subsea) |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |



US Fish & Wildlife Service

Oil and Gas Units

North Slope



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Duck Island Unit

| | |
|--------------------|-------------------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | BP Exploration (Alaska), Inc. |
| Acres: | 28,189 |
| First Production: | 1994 |

Eider PA

| | |
|-------------------|---|
| Status: | Producing |
| Discovery: | 1998, BP Duck Island Unit MPI #2-56/EID |
| Reservoir: | Triassic Ivishak Sandstone |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |

Endicott PA

| | |
|-------------------|---|
| Status: | Producing |
| Discovery: | 1978, Sohio Sag Delta 34633 #4 |
| Reservoir: | Mississippian Kekiktuk Conglomerate (-10,000 ft subsea) |
| Working Interest: | BP Exploration (Alaska), Inc. 68% ExxonMobil 21% Unocal 10% Doyon Ltd./NANA Regional Corporation/ConocoPhillips 1% |

Sag Delta North PA

| | |
|-------------------|--|
| Status: | Producing |
| Discovery: | 1982, Sohio Sag Delta #9 |
| Reservoir: | Mississippian Alaphah Limestone |
| Working Interest: | BP Exploration (Alaska), Inc. 98% NANA Regional Corporation/Doyon Ltd. 2% |



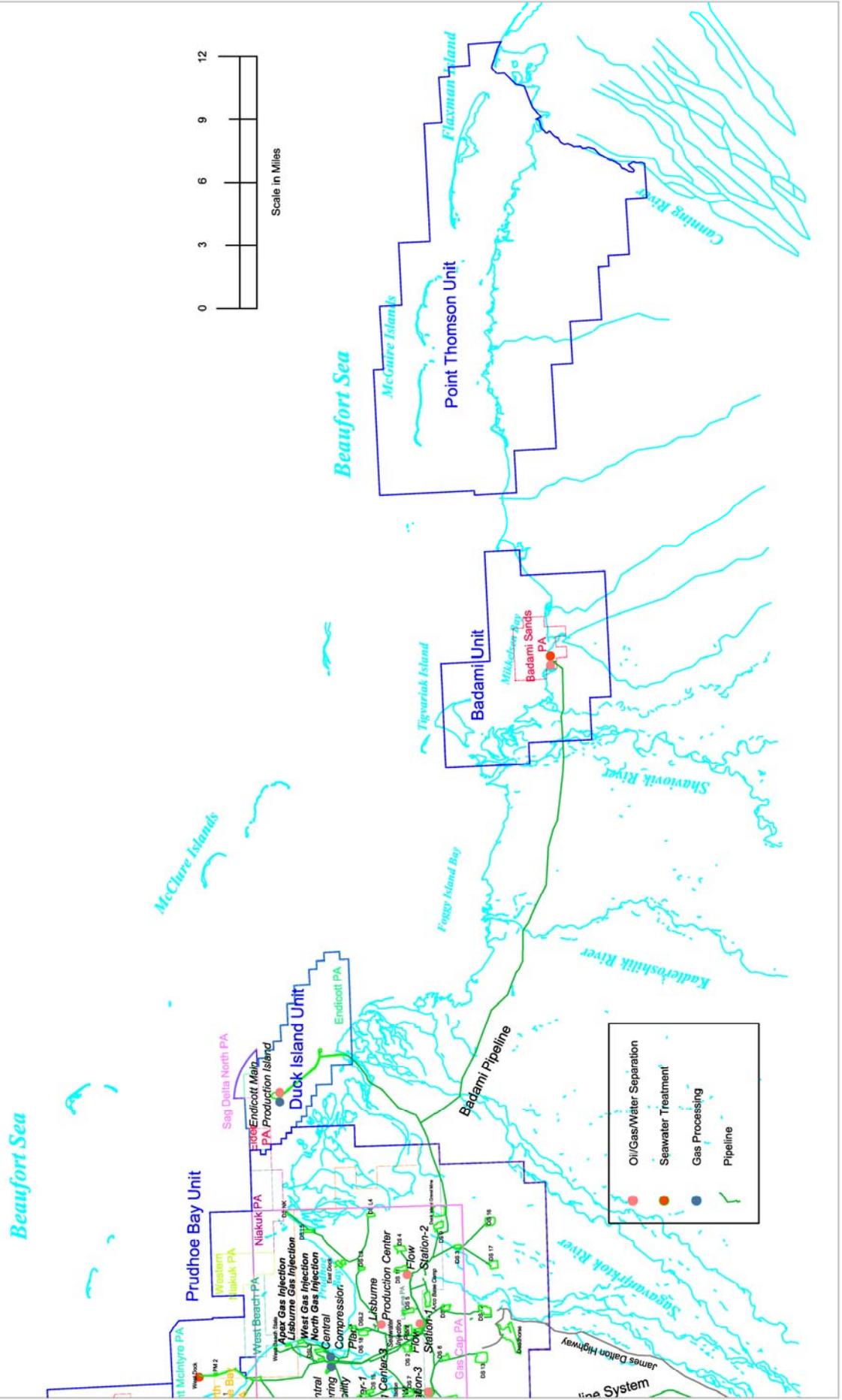
S. Schmitz



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North Slope Units and Facilities

Alaska Department of Natural Resources, Division of Oil & Gas
December 2003



Oil and Gas Units

North Slope



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Badami Unit

| | |
|--------------------|------------------------------------|
| Status: | Suspended |
| Royalty Ownership: | State of Alaska |
| Operator: | BP Exploration (Alaska), Inc. |
| Acres: | 37,401 |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |

Badami Sands PA

| | |
|-------------------|--|
| Status: | Suspended |
| Discovery: | 1990, Conoco Badami #1 |
| Reservoir: | Tertiary Canning Formation Badami sandstone (-9,900 ft) |
| Working Interest: | BP Exploration (Alaska), Inc. 100% |



Gil Mull



S. Schmitz

Point Thomson Unit



B. Havelock

| | |
|--------------------|----------------------------|
| Status: | Development |
| Royalty Ownership: | State of Alaska |
| Operator: | ExxonMobil |
| Acres: | 116,000 |
| First Production: | ~2008 |
| Discovery: | 1977, Exxon Pt. Thomson #1 |
| Working Interest: | BPAmoco 42% |
| | ExxonMobil 37% |
| | Chevron 19% |
| | Others <3% |

Point Thomson Sands Discovery

| | |
|------------|---|
| Status: | Undeveloped |
| Discovery: | 1977, Exxon Pt. Thomson #1 |
| Reservoir: | Lower Cretaceous Thomson sandstone (-12,834 ft.) |

Flaxman Discovery

| | |
|------------|-------------------------------------|
| Status: | Undeveloped |
| Discovery: | 1975, Exxon Alaska State A #1 |
| Reservoir: | Tertiary Flaxman sand (-12,565 ft.) |

Sourdough Discovery

| | |
|------------|-------------------------------------|
| Status: | Undeveloped |
| Discovery: | 1994, BP Sourdough #2 |
| Reservoir: | Reservoir information not available |



S. Schmitz



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Oil and Gas Units

Cook Inlet



ADGED

Status:
Royalty Ownership:

Operator:
Acres:
Reservoir:

Working Interest:

Pioneer Unit

Exploration
State of Alaska/United States/
Cook Inlet Regional Corporation/
Alaska Mental Health Trust/
University of Alaska/Fee
Evergreen Resources, Inc. 49,263
Tertiary Tyonek Formation
Coalbed methane target
Evergreen Resources Alaska, Inc. 100%



B. Havelock

Status:
Royalty Ownership:
Operator:
Acres:
First Production:

Stump Lake Unit

Suspended
State of Alaska
Unocal
13,691
1990

Stump Lake Gas Pool #1 PA

Status: Shut-in 1978, Restart 1990, Shut-in 2000
Discovery: 1978, Chevron Stump Lake Unit #41-33
Reservoir: Tertiary Beluga Formation
Working Interest: Unocal 100%



B. Havelock

Status:
Royalty Ownership:
Operator:
Acres:
First Production:

Ivan River Unit

Producing Gas
State of Alaska
Unocal
9,301
1990

Ivan River Gas Pool #1 PA

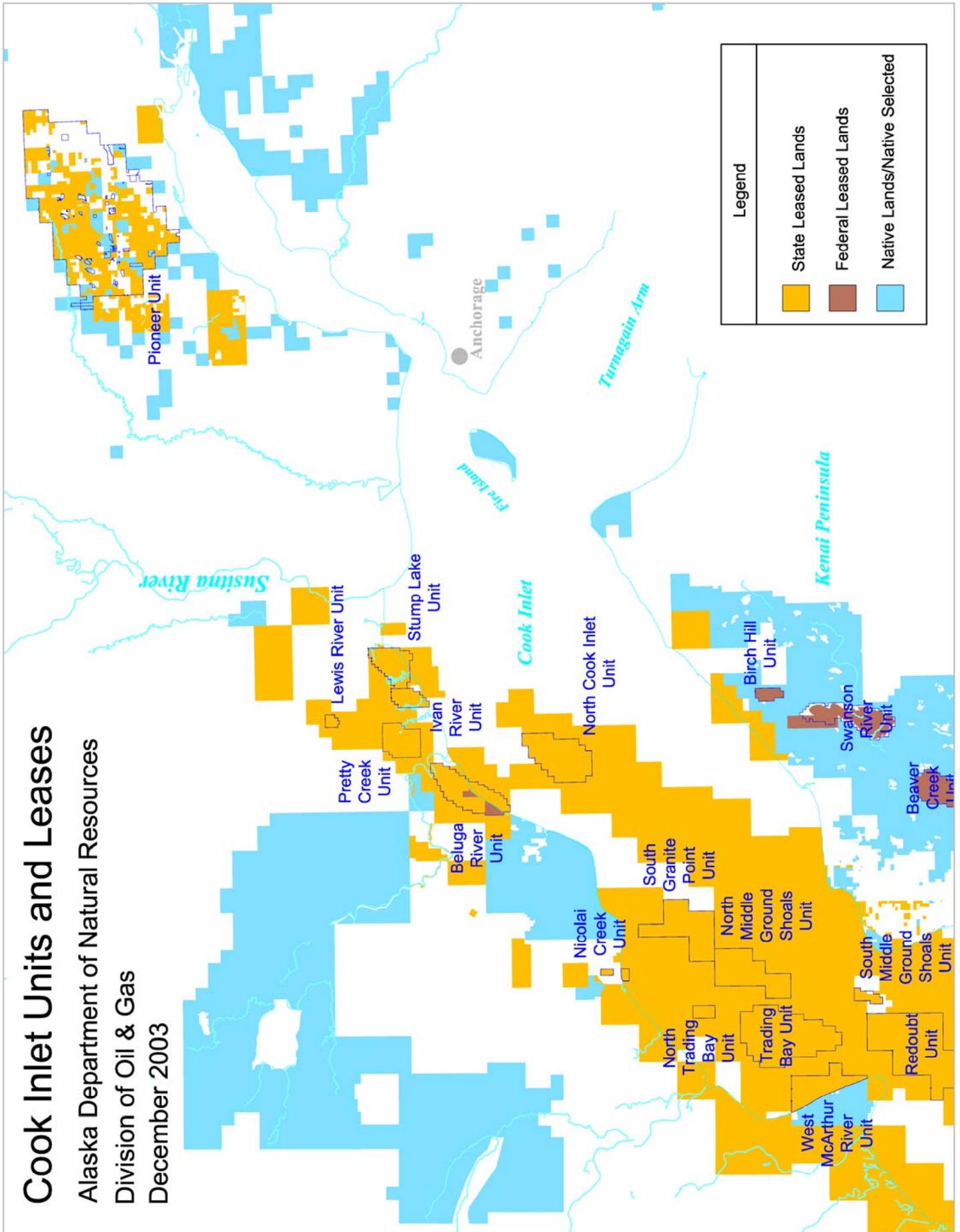
Status: Producing Gas
Discovery: 1966, Chevron Ivan River Unit #44-1
Reservoir: Tertiary Tyonek Formation
Working Interest: Unocal 100%

Cook Inlet Units and Leases

Alaska Department of Natural Resources

Division of Oil & Gas

December 2003



Oil and Gas Units

Cook Inlet



B. Havelock

Lewis River Unit

| | |
|--------------------|-----------------|
| Status: | Producing Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | Unocal |
| Acres: | 3,200 |
| First Production: | 1984 |

Lewis River PA #1

| | |
|-------------------|---------------------------------------|
| Status: | Producing |
| Discovery: | 1975, Cities Lewis River #1 |
| Reservoir: | Tertiary Tyonek and Beluga formations |
| Working Interest: | Unocal 100% |

Lewis River PA #2

| | |
|-------------------|---------------------------------------|
| Status: | Producing |
| Discovery: | 1975, Cities Lewis River #1 |
| Reservoir: | Tertiary Tyonek and Beluga formations |
| Working Interest: | Unocal 100% |

Pretty Creek Unit

| | |
|--------------------|-----------------|
| Status: | Suspended |
| Royalty Ownership: | State of Alaska |
| Operator: | Unocal |
| Acres: | 6,718 |
| First Production: | 1986 |

Beluga PA

| | |
|-------------------|------------------------------------|
| Status: | Suspended |
| Discovery: | 1979, Chevron Pretty Creek Unit #2 |
| Reservoir: | Tertiary Beluga Formation |
| Working Interest: | Unocal 100% |



US Fish & Wildlife Service

Oil and Gas Units

Cook Inlet



B. Havelock

Beluga River Unit

| | |
|--------------------|-----------------------------------|
| Status: | Producing Gas |
| Royalty Ownership: | State of Alaska/United States/Fee |
| Operator: | ConocoPhillips Alaska, Inc. |
| Acres: | 12,743 |
| First Production: | 1968 |

Beluga-Sterling Gas Pool PA

| | |
|-------------------|---|
| Status: | Producing gas |
| Discovery: | 1962, Chevron Beluga River Unit 212-35 #1 |
| Reservoir: | Tertiary Sterling Formation |
| Working Interest: | Chevron USA 33 ^{1/3} % ConocoPhillips Alaska, Inc. 33 ^{1/3} % Municipality of Anchorage 33 ^{1/3} % |



CIRCAC

North Cook Inlet Unit

| | |
|--------------------|----------------------------------|
| Status: | Producing Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | ConocoPhillips Petroleum Company |
| Acres: | 23,368 |
| First Production: | 1970 |

North Cook Inlet Initial PA

| | |
|-------------------|---|
| Status: | Producing gas |
| Discovery: | 1962, Pan Am Cook Inlet State 17589 #1 |
| Reservoir: | Tertiary Tyonek, Beluga and Sterling formations |
| Working Interest: | ConocoPhillips Petroleum Company 100% |



D. Colley

Oil and Gas Units

Cook Inlet

South Granite Point Unit



CIRCAC

| | |
|--------------------|-----------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | Unocal |
| Acres: | 10,209 |
| First Production: | 1967 |

Granite Point Sands PA

| | |
|-------------------|------------------------------------|
| Status: | Producing |
| Discovery: | 1965, Mobil Granite Point 11965 #1 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | ExxonMobil 75% Unocal 25% |

Hemlock PA

| | |
|-------------------|------------------------------------|
| Status: | Producing |
| Discovery: | 1965, Mobil Granite Point 11965 #1 |
| Reservoir: | Tertiary Hemlock Conglomerate |
| Working Interest: | ExxonMobil 75% Unocal 25% |

Nicolai Creek Unit

| | |
|--------------------|----------------------------|
| Status: | Producing Gas |
| Royalty Ownership: | State of Alaska/Federal |
| Operator: | Aurora Gas, LLC |
| Acres: | 9,123 |
| First Production: | Shut-in 1977, Restart 2001 |

Nicolai Creek Gas Pool "A" PA

| | |
|-------------------|---------------------------------------|
| Status: | Shut-In |
| Discovery: | 1966, Texaco Nicolai Creek State #1A |
| Reservoir: | Tertiary Tyonek and Beluga formations |
| Working Interest: | Aurora Gas, LLC 100% |

Nicolai Creek Gas Pool "B" PA

| | |
|-------------------|---------------------------------------|
| Status: | Producing gas |
| Discovery: | 1967, Texaco Nicolai Creek Unit #3 |
| Reservoir: | Tertiary Tyonek and Beluga formations |
| Working Interest: | Aurora Gas, LLC 100% |

Oil and Gas Units

Cook Inlet

Redoubt Unit



B. Havelock

Status: Development
Royalty Ownership: State of Alaska
Operator: Forest Oil Company
Acres: 23,526
First Production: 2002

Hemlock PA

Status: Proposed
Discovery: 1968, Pan Am Redoubt Shoal Unit #2
Reservoir: Tertiary Hemlock Conglomerate
Working Interest: Forest Oil Corporation 100%

Trading Bay Unit



CIRCAC

Status: Producing Oil and Gas
Royalty Ownership: State of Alaska
Operator: Unocal
Acres: 32,115
First Production: 1967

Grayling Gas Sands PA

Status: Producing gas
Discovery: 1968, Trading Bay Unit #G-18
Reservoir: Tertiary Tyonek Formation
(-2,500 to -6,500 ft. subsea)
Working Interest: Unocal 48.8%
Marathon Oil Company 51.2%

McArthur River Hemlock Oil Pool PA

Status: Producing oil
Discovery: 1965, UNOCAL Grayling #1A
Reservoir: Tertiary Hemlock Conglomerate
Working Interest: Unocal 46.8%
Forest Oil Corporation 53.2%

McArthur River Middle Kenai G Oil Pool PA

Status: Producing oil
Discovery: 1965, UNOCAL Grayling #1A
Reservoir: Tertiary Tyonek Formation
Working Interest: Unocal 46.8%
Forest Oil Corporation 53.2%

McArthur River West Foreland Oil Pool PA

Status: Producing oil
Discovery: 1965, UNOCAL Grayling #1A
Reservoir: Tertiary West Foreland Formation
Working Interest: Unocal 46.8%, Forest Oil Corporation 53.2%

Oil and Gas Units

Cook Inlet

North Trading Bay Unit

| | |
|--------------------|----------------------|
| Status: | Suspended |
| Royalty Ownership: | State of Alaska |
| Operator: | Marathon Oil Company |
| Acres: | 6,400 |
| First Production: | Shut-in 1992 |

Hemlock and "G" Formation PA

| | |
|-------------------|--|
| Status: | Suspended |
| Discovery: | 1965, Chevron Trading Bay #1A |
| Reservoir: | Tertiary Hemlock and Tyonek formations |
| Working Interest: | Marathon Oil Company 81% Unocal 19% |

West McArthur River Unit

| | |
|--------------------|------------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | State of Alaska |
| Operator: | Forest Oil Corporation |
| Acres: | 6,330 |
| First Production: | 1994 |

Area 1 PA

| | |
|-------------------|--------------------------------------|
| Status: | Producing oil |
| Discovery: | 1991, Stewart West McArthur River #1 |
| Reservoir: | Tertiary Hemlock Conglomerate |
| Working Interest: | Forest Oil Corporation 100% |

West Foreland Field

| | |
|-------------------|-----------------------------|
| Status: | Producing gas |
| Discovery: | 1962, West Foreland #1 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Forest Oil Corporation 100% |

Oil and Gas Units

Cook Inlet

South Middle Ground Shoals Unit

| | |
|--------------------|-----------------|
| Status: | Suspended |
| Royalty Ownership: | State of Alaska |
| Operator: | Unocal |
| Acres: | 3,840 |
| First Production: | 1967 |

South Middle Ground Shoal Tertiary System PA

| | |
|-------------------|--|
| Status: | Suspended |
| Discovery: | 1962, Pan Am MGS State 17595 #1 |
| Reservoir: | Tertiary Hemlock and Tyonek formations |
| Working Interest: | Unocal 100% |

Birch Hill Unit

| | |
|--------------------|-----------------------------|
| Status: | Suspended |
| Royalty Ownership: | United States |
| Operator: | ConocoPhillips Alaska, Inc. |
| Acres: | 1,240 |
| First Production: | Shut-in 1965 |

Gas Pool #1 PA

| | |
|-------------------|--------------------------------------|
| Status: | Shut-in |
| Discovery: | 1965, Chevron Birch Hill Unit #22-25 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Unocal 79% |
| | CIRI Production Company 20% |
| | Marathon Oil Company 1% |

Swanson River Unit

| | |
|--------------------|-----------------------|
| Status: | Producing Oil and Gas |
| Royalty Ownership: | United States/CIRI |
| Operator: | Unocal |
| Acres: | 7,880 |
| First Production: | 1960 |

"B, C, D & E" Zone Gas Pools #1 and #2 Consolidated Hemlock PA

| | |
|-------------------|--|
| Status: | Producing |
| Discovery: | 1957, Richfield Swanson River Unit #34-10 |
| Reservoir: | Tertiary Hemlock, Lower Tyonek and Beluga formations |
| Working Interest: | Unocal/Marathon Oil Company |

Oil and Gas Units

Cook Inlet

Beaver Creek Unit

Status: Producing Oil and Gas
Royalty Ownership: United States, Fee
Operator: Marathon
Acres: 4,960
First Production: 1973

Sterling Gas, Beluga Gas, and Beaver Creek Oil Pools

Status: Producing oil and gas
Discovery: 1972, Marathon Beaver Creek #4
Reservoir: Tertiary Hemlock, Lower Tyonek and Beluga formations
Working Interest: Marathon Oil Company

Sterling Unit

Status: Producing Gas
Royalty Ownership: United States/CIRI/State of Alaska/Fee
Operator: Marathon Oil Company
Acres: 3,600
First Production: 1962

"A" Zone PA (Sterling Formation Gas Zone PA)

Status: Producing
Discovery: 1961, UNOCAL Sterling Unit #23-15
Reservoir: Tertiary Sterling Formation
Working Interest: Marathon Oil Company 100%

Lower Beluga PA

Status: Producing
Discovery: 1999, UNOCAL Sterling Unit #41-15
Reservoir: Tertiary Beluga Formation
Working Interest: Marathon Oil Company 100%

Tyonek PA

Status: Producing
Discovery: 1999, UNOCAL Sterling Unit #41-15
Reservoir: Tertiary Tyonek Formation
Working Interest: Marathon Oil Company 100%

Oil and Gas Units

Cook Inlet

Cannery Loop Unit

Status: Producing Gas
Royalty Ownership: State of Alaska/United States/CIRI/Fee
Operator: Marathon Oil Company
Acres: 1,900
First Production: 1988
Working Interest: Marathon Oil Company 100%

Beluga Formation Undifferentiated Gas Sands PA

Status: Producing
1979, UNOCAL Cannery Loop Unit #1
Tertiary Beluga Formation



Discovery: D. Colley
Reservoir:

Sterling Sands PA

Producing
1979, UNOCAL Cannery Loop Unit #1
Tertiary Sterling Formation

Tyonek D Zone Gas Sands PA

Producing
1979, UNOCAL Cannery Loop Unit #1
Tertiary Tyonek Formation

Upper Tyonek Formation Undifferentiated Gas Sands PA

Status: Producing
Discovery: 1979, UNOCAL Cannery Loop Unit #1
Reservoir: Tertiary Tyonek Formation

Kenai River Unit

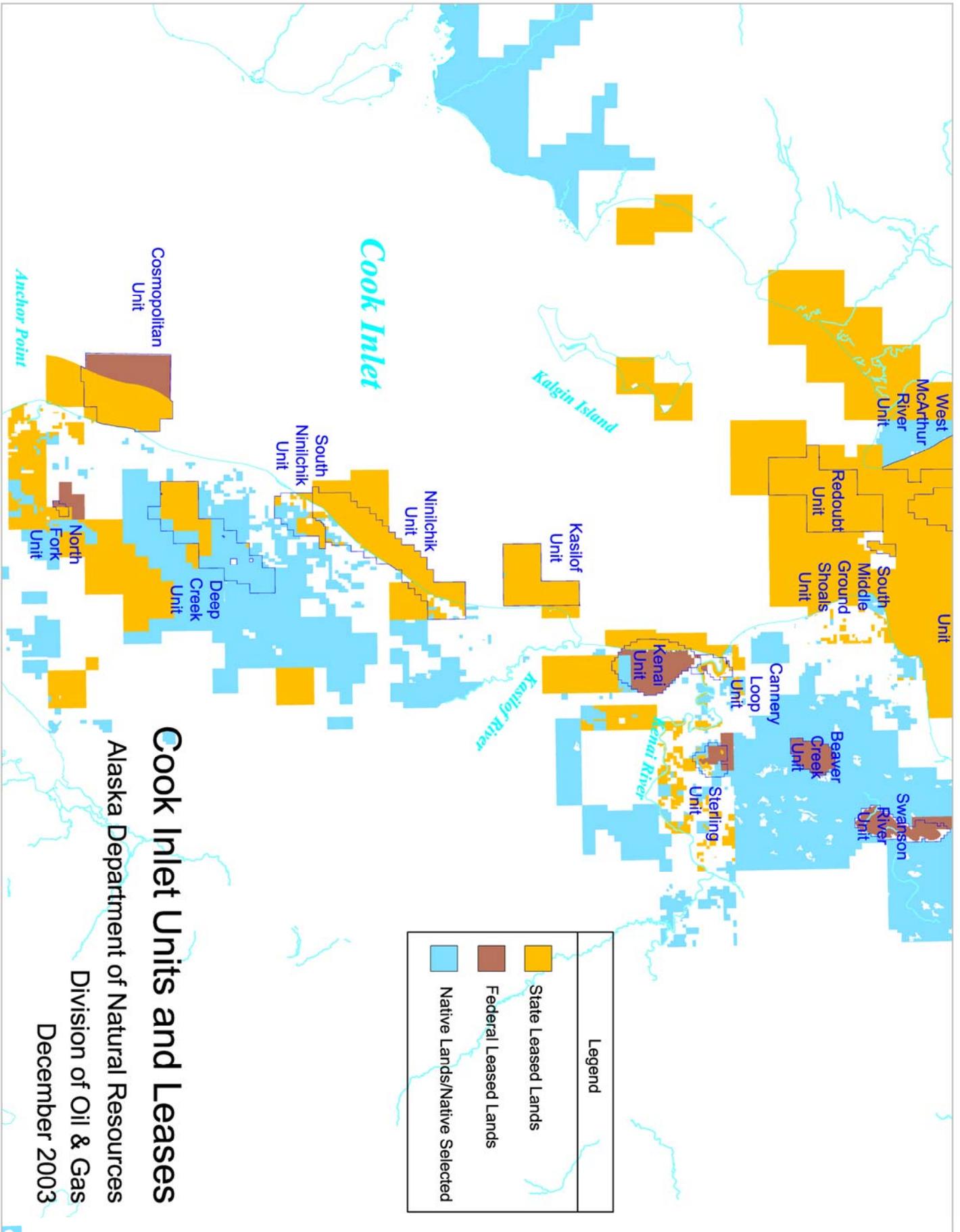
Status: Producing Gas
Royalty Ownership: State of Alaska/United States/CIRI/Fee
Operator: Marathon Oil Company
Acres: 8,264
First Production: 1961
Working Interest: Marathon Oil Company 100%

Sterling Formation Gas Zone PA (A Zone PA)

Status: Producing
Discovery: 1959, UNOCAL Kenai Unit #14-6
Reservoir: Tertiary Sterling Formation

Beluga PA (Beluga Formation Gas Zones PA)

Status: Producing
Discovery: 1959, UNOCAL Kenai Unit #14-6
Reservoir: Tertiary Beluga Formation (-4,595 to -5,108 ft. subsea)



Oil and Gas Units



B. Havelock

Cook Inlet

Ninilchik Unit

| | |
|--------------------|----------------------------------|
| Status: | Gas Exploration and Production |
| Royalty Ownership: | State of Alaska/CIRI/Fee/Federal |
| Operator: | Marathon Oil Company |
| Acres: | 27,860 |
| Working Interest: | Marathon Oil Company 60% |
| | Unocal 40% |

Falls Creek PA

| | |
|-------------------|--------------------------------------|
| Status: | First Production October 2003 |
| Discovery: | 1961, Chevron Falls Creek Unit #43-1 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Marathon Oil Company 60% |
| | Unocal 40% |

Grassim Oskolkoff PA

| | |
|-------------------|--------------------------------------|
| Status: | Development |
| Discovery: | 1961, Chevron Falls Creek Unit #43-1 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Marathon Oil Company 60% |
| | Unocal 40% |

Susan Dionne PA

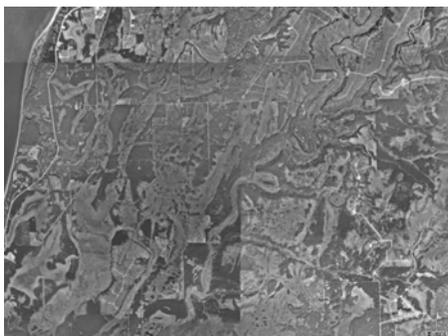
| | |
|-------------------|--------------------------------------|
| Status: | Development |
| Discovery: | 1961, Chevron Falls Creek Unit #43-1 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Marathon Oil Company 60% |
| | Unocal 40% |

Kasilof Unit

| | |
|--------------------|----------------------|
| Status: | Gas Exploration |
| Royalty Ownership: | State of Alaska |
| Operator: | Marathon Oil Company |
| Acres: | 13,289 |

South Ninilchik Unit

| | |
|--------------------|--------------------------|
| Status: | Exploration |
| Royalty Ownership: | State of Alaska/CIRI/Fee |
| Operator: | Unocal |
| Acres: | 6,998 |
| Working Interest: | Unocal 100% |



TerraServer

Deep Creek Unit

| | |
|--------------------|----------------------|
| Status: | Exploration |
| Royalty Ownership: | State of Alaska/CIRI |
| Operator: | Unocal |
| Acres: | 22,617 |
| Working Interest: | Unocal 100% |

Cosmopolitan Unit

| | |
|--------------------|------------------------------------|
| Status: | Exploration |
| Royalty Ownership: | State of Alaska/United States |
| Operator: | ConocoPhillips Alaska, Inc. |
| Acres: | 23,369 |
| Working Interest: | ConocoPhillips Alaska, Inc. 57% |
| | Anadarko Petroleum Corporation 20% |
| | Forest Oil Corporation 14% |
| | Devon Energy Production Company 4% |
| | ExxonMobil 4% |
| | Others 1% |

Starichkof Discovery

| | |
|------------|---------------------------------|
| Status: | Exploration |
| Discovery: | 1967, Penzoil Starichkof St. #1 |
| Reservoir: | Tertiary Hemlock Conglomerate |

North Fork Unit

| | |
|--------------------|-------------------------|
| Status: | Shut-In |
| Royalty Ownership: | State of Alaska/Federal |
| Operator: | Gas-Pro Alaska, LLC |
| Acres: | 2,480 |
| First Production: | Shut-in in 1965 |

North Fork PA

| | |
|-------------------|--------------------------------------|
| Status: | Suspended |
| Discovery: | 1965, Chevron North Fork Unit #41-35 |
| Reservoir: | Tertiary Tyonek Formation |
| Working Interest: | Gas-Pro Alaska, LLC 73% |
| | ConocoPhillips Alaska, Inc. 27% |

Oil and Gas Units

Non-Unitized Production

Middle Ground Shoal Field

Status: Producing Oil and Gas
Royalty Ownership: State of Alaska
Operator: Cross Timbers Oil Co./
Forest Oil Company/
Unocal
First Production: 1967
Discovery: 1962, Pan Am MGS State 17595 #1
Reservoir: Tertiary Hemlock and
Tyonek formations

Granite Point Field

Status: Producing Oil and Gas
Royalty Ownership: State of Alaska
Operator: Unocal
First Production: 1967
Discovery: 1965, Mobil Granite Point 11965 #1
Reservoir: Tertiary Hemlock and
Tyonek formations

Oil and Gas Units

Table 3.2 Fields and Pools

| FIELD NAME | TYPE OF FIELD | LOCATION | UNIT | DATE DISCOVERED | OPERATOR (FIELD) |
|-----------------------|---------------|--|-----------------|-----------------|----------------------|
| ALBERT KALOA | GAS | Cook Inlet, west side, onshore. | | Jan-68 | CIRI |
| ALPINE | OIL | Arctic Slope, Colville Delta, onshore. | Colville River | Mar-94 | ConocoPhillips |
| AURORA | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Aug-69 | BP |
| BADAMI | OIL & GAS | Arctic Slope, Canning R., onshore. | Badami | Apr-90 | BP |
| BEAVER CREEK | OIL & GAS | Cook Inlet, east side, onshore. | Beaver Creek | Dec-72 | UNOCAL |
| BELUGA RIVER | GAS | Cook Inlet, west side, onshore. | Beluga River | Dec-62 | ConocoPhillips |
| BIRCH HILL | GAS | Cook Inlet, east side, onshore. | Birch Hill | Jun-65 | ConocoPhillips |
| BOREALIS | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Aug-69 | BP |
| BURGER | OIL & GAS | OCS, Chukchi Sea, offshore | | Oct-89 | |
| CANNERY LOOP | GAS | Cook Inlet, east side, onshore. | Cannery Loop | Jun-79 | Marathon |
| CANNERY LOOP BELUGA | GAS | Cook Inlet, east side, onshore. | Cannery Loop | Jun-79 | Marathon |
| CANNERY LOOP STERLING | GAS | Cook Inlet, east side, onshore. | Cannery Loop | Oct-00 | Marathon |
| CASCADE | OIL | Arctic Slope, central, onshore. | Milne Point | Mar-93 | BP |
| COLVILLE DELTA | OIL | Arctic Slope, Colville Delta, onshore. | Alpine | Apr-85 | ConocoPhillips |
| EAST BARROW | GAS | Arctic Slope, western, onshore. | Barrow | May-74 | NS Borough |
| EAST KURUPA | GAS | Arctic Slope, foothills, onshore | | Mar-76 | |
| EAST UMIAT | GAS | Arctic Slope, foothills, onshore. | | Mar-64 | UMC Petroleum |
| EIDER | OIL | Arctic Slope, central, onshore. | Duck Island | Mar-98 | BP |
| ENDICOTT | OIL | Arctic Slope, central, onshore. | Duck Island | Feb-78 | BP |
| FALLS CREEK | GAS | Cook Inlet, east side, onshore. | Falls Creek | Apr-61 | Marathon |
| FIORD | OIL | Arctic Slope, Colville Delta, onshore. | Colville River | Apr-92 | ConocoPhillips |
| FISH CREEK | OIL | Arctic Slope, NPRA, onshore. | | Sep-49 | ConocoPhillips |
| FLAXMAN | OIL | Arctic Slope, Canning R., offshore | Point Thomson | Sep-75 | Exxon |
| GRANITE POINT | OIL & GAS | Cook Inlet, west side, offshore. | | May-65 | UNOCAL |
| GRANITE POINT TYONEK | GAS | Cook Inlet, west side, offshore. | | Aug-65 | UNOCAL |
| GRASSIM OSKOLKOF | GAS | Cook Inlet, east side, offshore. | Ninilchik | Aug-79 | Marathon |
| GUBIK | GAS | Arctic Slope, foothills, onshore. | | Aug-51 | |
| GWYDYR BAY | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Nov-69 | BP |
| HAMMERHEAD | OIL | OCS, Beaufort Sea, offshore. | | Oct-86 | Anadarko |
| HAPPY VALLEY | GAS | Cook Inlet, east side, onshore. | Deep Creek | Jul-03 | UNOCAL |
| HEMI SPRINGS | OIL | Arctic Slope, central, onshore. | | Apr-84 | BP |
| IVAN RIVER | GAS | Cook Inlet, west side, onshore. | Ivan River | Oct-66 | UNOCAL |
| KALUBIK | OIL | Arctic Slope, Colville Delta, onshore. | Alpine | May-92 | ConocoPhillips |
| KATALLA | OIL | Gulf of Alaska, onshore. | | Jan-02 | Casandra |
| KAVIK | GAS | Arctic Slope, foothills, onshore. | | Nov-69 | ConocoPhillips |
| KEMIK | GAS | Arctic Slope, foothills, onshore. | | Jun-72 | BP |
| KENAI | GAS | Cook Inlet, east side, onshore. | Kenai | Oct-59 | Marathon |
| KENAI STERLING | GAS | Cook Inlet, east side, onshore. | Kenai | Oct-59 | Marathon |
| KUPARUK RIVER | OIL & GAS | Arctic Slope, central, onshore. | Kuparuk River | Apr-69 | ConocoPhillips |
| KUVLUM | OIL | OCS, Beaufort Sea, offshore. | | Oct-92 | ConocoPhillips |
| LEWIS RIVER | GAS | Cook Inlet, west side, onshore. | Lewis River | Oct-75 | UNOCAL |
| LIBERTY | OIL | OCS, Beaufort Sea, offshore. | | Mar-83 | BP |
| LISBURNE | OIL & GAS | Arctic Slope, central, onshore. | Prudhoe Bay | Dec-67 | BP |
| LONE CREEK | GAS | Cook Inlet, west side, onshore. | Moquawkie | Oct-98 | Aurora Gas |
| MCARTHUR RIVER | OIL & GAS | Cook Inlet, west side, offshore. | Trading Bay | Sep-65 | UNOCAL |
| MCARTHUR RIVER TYONEK | GAS | Cook Inlet, west side, offshore. | Trading Bay | Dec-68 | UNOCAL |
| MEADE | GAS | Arctic Slope, NPRA, onshore. | | Aug-50 | |
| MELTWATER | OIL | Arctic Slope, central, onshore. | Kuparuk River | Apr-00 | ConocoPhillips |
| MGS N MID GROUND SH | GAS | Cook Inlet, mid channel, offshore. | N Mid Ground Sh | Jun-62 | UNOCAL |
| MIDDLE GROUND SHOAL | OIL | Cook Inlet, mid channel, offshore. | N & S MGS | Jun-62 | UNOCAL/Cross Timbers |
| MIDNIGHT SUN | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Dec-97 | BP |
| MIKKELSEN | OIL | Arctic Slope, central, onshore. | | Nov-78 | Exxon/ConocoPhillips |
| MILNE POINT | OIL | Arctic Slope, central, onshore. | Milne Point | Aug-69 | BP |
| MOQUAWKIE | GAS | Cook Inlet, west side, onshore. | Moquawkie | Nov-65 | Aurora Gas |
| N MIDDLE GROUND SHOAL | GAS | Cook Inlet, mid channel, offshore. | | Nov-64 | UNOCAL |
| NANUQ | OIL | Arctic Slope, Colville Delta, onshore. | Colville River | May-00 | ConocoPhillips |
| NIAKUK | OIL | Arctic Slope, central, offshore. | Prudhoe Bay | Mar-85 | BP |
| NICOLAI CREEK | GAS | Cook Inlet, west side, onshore. | Nicolai Creek | Apr-66 | Aurora Gas |
| NORTH COOK INLET | GAS | Cook Inlet, mid channel, offshore. | N Cook Inlet | Aug-62 | ConocoPhillips |
| NORTH FORK | GAS | Cook Inlet, east side, onshore. | North Fork | Dec-65 | Northstar Energy |
| NORTH PRUDHOE | OIL & GAS | Arctic Slope, central, onshore. | Prudhoe Bay | Mar-70 | BP |
| NORTHSTAR | OIL & GAS | Arctic Slope, central, offshore. | Northstar | Jan-84 | BP |
| NPRA LOOKOUT | OIL/COND | Arctic Slope, NPRA, onshore. | NPRA | Jan-01 | ConocoPhillips |
| NPRA RENDEZVOUS | OIL/COND | Arctic Slope, NPRA, onshore. | NPRA | Jan-01 | ConocoPhillips |
| NPRA SPARK | OIL/COND | Arctic Slope, NPRA, onshore. | NPRA | Apr-00 | ConocoPhillips |
| OOGARUK | OIL | Arctic Slope, NPRA, onshore | Oogaruk | Apr-03 | Pioneer |
| ORION | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Aug-69 | BP |
| PALM | OIL | Arctic Slope, central, onshore. | Kuparuk River | Feb-01 | ConocoPhillips |
| PETE'S WICKED | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Feb-97 | BP |
| POINT MCINTYRE | OIL & GAS | Arctic Slope, central, offshore. | Prudhoe Bay | Mar-88 | BP |
| POINT THOMSON | OIL & GAS | Arctic Slope, Canning R., onshore. | Point Thomson | Dec-77 | Exxon |

Oil and Gas Units

Table 3.2 Fields and Pools, Cont.

| FIELD NAME | TYPE OF FIELD | LOCATION | UNIT | DATE DISCOVERED | OPERATOR (FIELD) |
|---------------------|---------------|------------------------------------|------------------|-----------------|--------------------|
| POLARIS | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Aug-69 | BP |
| PRETTY CREEK | GAS | Cook Inlet, west side, onshore. | Pretty Creek | Feb-79 | UNOCAL |
| PRUDHOE BAY | OIL & GAS | Arctic Slope, central, onshore. | Prudhoe Bay | Dec-67 | BP |
| REDOUBT SHOAL | OIL | Cook Inlet, west side, offshore. | Redoubt Shoal | Sep-68 | Forest |
| SAG DELTA NORTH | OIL | Arctic Slope, central, onshore. | Duck Island | Jan-82 | BP |
| SAG RIVER | OIL | Arctic Slope, central, onshore. | Milne Point | Aug-69 | BP |
| SAMBUCCA | OIL | Arctic Slope, central, onshore. | Prudhoe Bay | Dec-97 | BP |
| SANDPIPER | OIL | OCS, Beaufort Sea, offshore. | Sandpiper | Jan-86 | Murphy |
| SCHRADER BLUFF | OIL | Arctic Slope, central, onshore. | Milne Point | Aug-69 | BP |
| SIKULIK | GAS | Arctic Slope, western, onshore. | | Apr-88 | NS Borough |
| SIMPSON | OIL | Arctic Slope, NPRA, onshore. | | Oct-50 | |
| SOURDOUGH | OIL | Arctic Slope, Canning R., onshore. | Point Thomson | Apr-94 | BP |
| SOUTH BARROW | GAS | Arctic Slope, western, onshore. | Barrow | Apr-49 | NS Borough |
| SQUARE LAKE | GAS | Arctic Slope, NPRA, onshore. | | Apr-52 | |
| STARICHKOF | OIL | Cook Inlet, east side, offshore. | Cosmopolitan | Apr-67 | ConocoPhillips |
| STERLING | GAS | Cook Inlet, east side, onshore. | Sterling | Jul-61 | Marathon |
| STERLING BELUGA | GAS | Cook Inlet, east side, onshore. | Sterling | Jan-99 | Marathon |
| STERLING TYONEK | GAS | Cook Inlet, east side, onshore. | Sterling | Jul-61 | Marathon |
| STINSON | confidential | Arctic Slope, Canning R., offshore | | Aug-90 | ConocoPhillips |
| STUMP LAKE | GAS | Cook Inlet, west side, onshore. | Stump Lake | May-78 | UNOCAL |
| SUSAN DIONNE | GAS | Cook Inlet, east side, offshore. | Ninilchjik | Dec-62 | Marathon |
| SWANSON RIVER | OIL & GAS | Cook Inlet, east side, onshore. | Swanson River | Jul-57 | UNOCAL |
| TABASCO | OIL | Arctic Slope, central, onshore. | Kuparuk River | Oct-86 | ConocoPhillips |
| TARN | OIL | Arctic Slope, central, onshore. | Kuparuk River | Feb-91 | ConocoPhillips |
| THETIS ISLAND | OIL | Arctic Slope, central, offshore. | | Apr-93 | Anadarko |
| TRADING BAY | OIL | Cook Inlet, west side, offshore. | N Trading Bay | Jun-65 | UNOCAL |
| TRADING BAY TYONEK | GAS | Cook Inlet, west side, offshore. | N Trading Bay | Jun-65 | UNOCAL |
| TYONEK DEEP | OIL | Cook Inlet, mid channel, offshore. | N Cook Inlet | Nov-91 | ConocoPhillips |
| UGNU | OIL | Arctic Slope, central, onshore. | Kuparuk River | Aug-69 | ConocoPhillips |
| UMIAT | OIL | Arctic Slope, foothills, onshore. | | Dec-46 | U.S. Dept Interior |
| WALAKPA | GAS | Arctic Slope, western, onshore. | | Feb-80 | NS Borough |
| WEST BEACH | OIL & GAS | Arctic Slope, central, onshore. | Prudhoe Bay | Jul-76 | BP |
| WEST FORELAND | GAS | Cook Inlet, west side, onshore. | | Mar-62 | Forest |
| WEST FORK | GAS | Cook Inlet, east side, onshore. | | Sep-60 | Marathon |
| WEST MCARTHUR RIVER | OIL & GAS | Cook Inlet, west side, onshore. | W McArthur River | Dec-91 | Forest |
| WEST SAK | OIL | Arctic Slope, central, onshore. | Kuparuk River | Aug-69 | ConocoPhillips |
| WOLF CREEK | GAS | Arctic Slope, NPRA, onshore. | | Jun-51 | |
| WOLF LAKE | GAS | Cook Inlet, west side, onshore. | | Nov-83 | Marathon |