

General Protections

All of the NPR-A plan alternatives include 11 categories of general stipulations and Required Operating Procedures/Best Management Practices in addition to the stipulations targeted at the most biologically sensitive areas (K-stips). The general protections include:

Waste Prevention, Handling, Disposal, Spills, and Public Safety: 11 measures include, for example, requirements for waste management, spill prevention and response, and HazMat emergency contingency plans; air quality monitoring; and monitoring for potential contamination of subsistence foods.

Water Use for Permitted Activities: Limits water withdrawal from streams and lakes to protect fish and other wildlife.

Winter Overland Moves and Seismic Work: Regulates winter travel to protect the soil, vegetation, streams, and denning bears.

Oil and Gas Exploratory Drilling: Prohibits exploratory drilling in rivers, streams, and fish-bearing lakes and construction of permanent facilities (gravel pads) for exploratory drilling.

Facility Design and Construction: 20 measures include, for example, requirements that permanent facilities minimize footprint; remain 500 feet from waterbodies except for crossings; allow fish passage, caribou movement, and subsistence user access (e.g., 7-foot high pipeline and 500-foot road/pipeline separation); and USFWS-designed T&E species protections.

Use of Aircraft for Permitted Activities: Requires a plan to minimize impacts to subsistence users and establishes seasonal minimum flight altitudes over raptor nest habitat and caribou calving, insect relief, and winter areas.

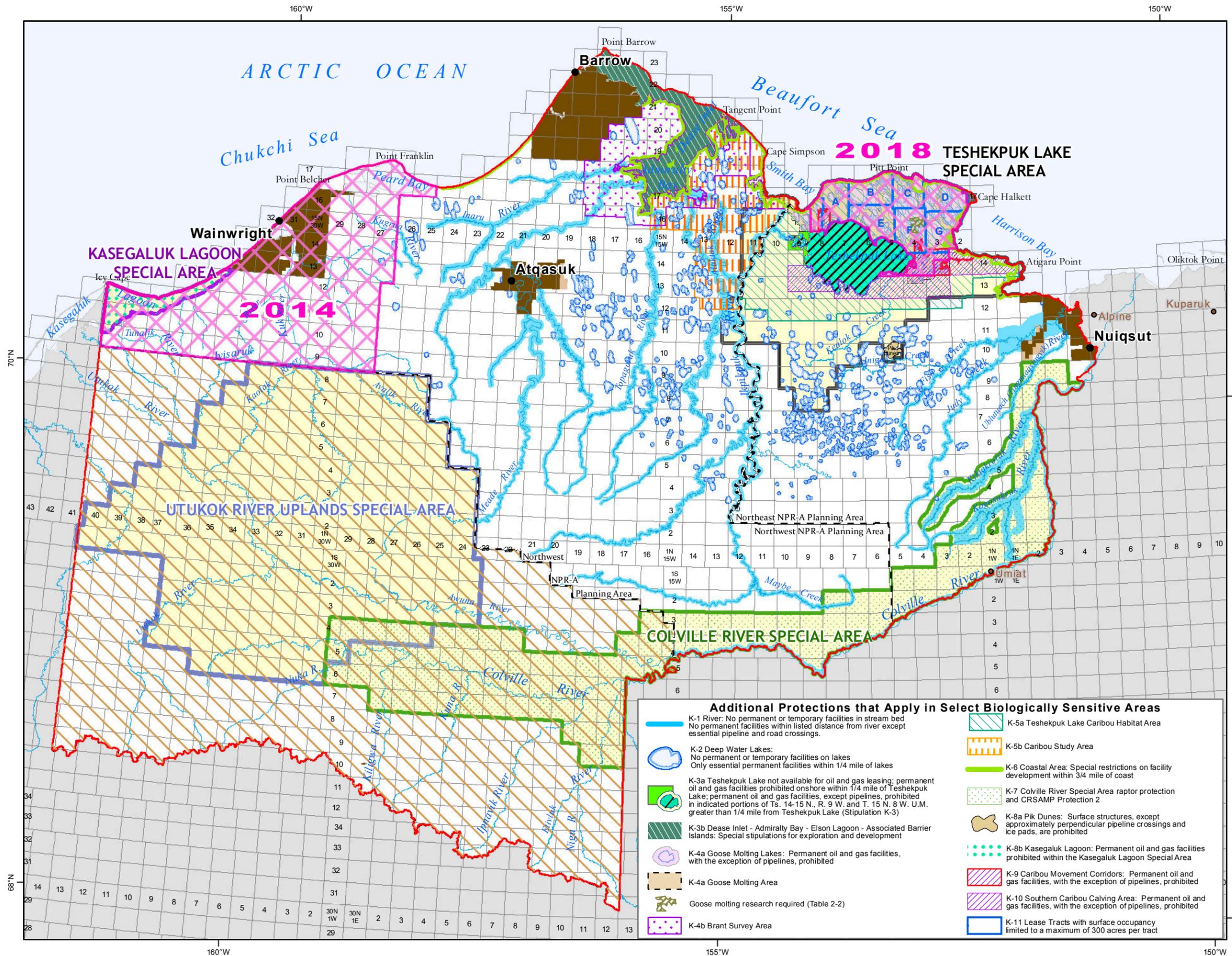
Oil and Gas Field Abandonment: Requires that all oil and gas infrastructure “be reclaimed to ensure eventual restoration of ecosystem function.”

Subsistence Consultation for Permitted Activities: Requires lessees/permittees consult with subsistence communities on their proposed activities, submit a plan to show how their activities will prevent unreasonable conflicts with subsistence activities, monitor for impacts to subsistence use, and constrain employees from engaging in recreational hunting and fishing at the work-site. In addition, seismic operations are to avoid subsistence cabins.

Orientation Programs Associated with Permitted Activities: Requires personnel receive orientation on range of North Slope issues, including protecting resources, subsistence, and local lifestyles and laws.

Endangered Species Act—Section 7 Consultation Process: Alerts lessees that BLM may recommend modifications to exploration and development proposals to avoid impacts that could lead to ESA listing and that BLM will not approve any activity until it completes any necessary ESA consultations.

Summer Vehicle Tundra Access: Establishes requirements (studies of impacts of specific vehicles to be used and resource surveys) of applicants for approval of vehicle use on the tundra during summer.



MAP 2-1 Alternative A

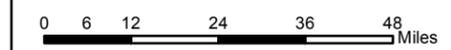
- Special Areas**
- Colville River
 - Teshekpuk Lake
 - Utukok River Uplands
 - Kasegaluk Lagoon

- Oil & Gas**
- Unavailable: 2008 ROD
 - Unavailable: unplanned
 - Deferred to stated year

All other BLM-managed subsurface would be available for leasing

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

- Land Status**
- Native Patent or IC
 - Native Selected
 - NPR-A Boundary

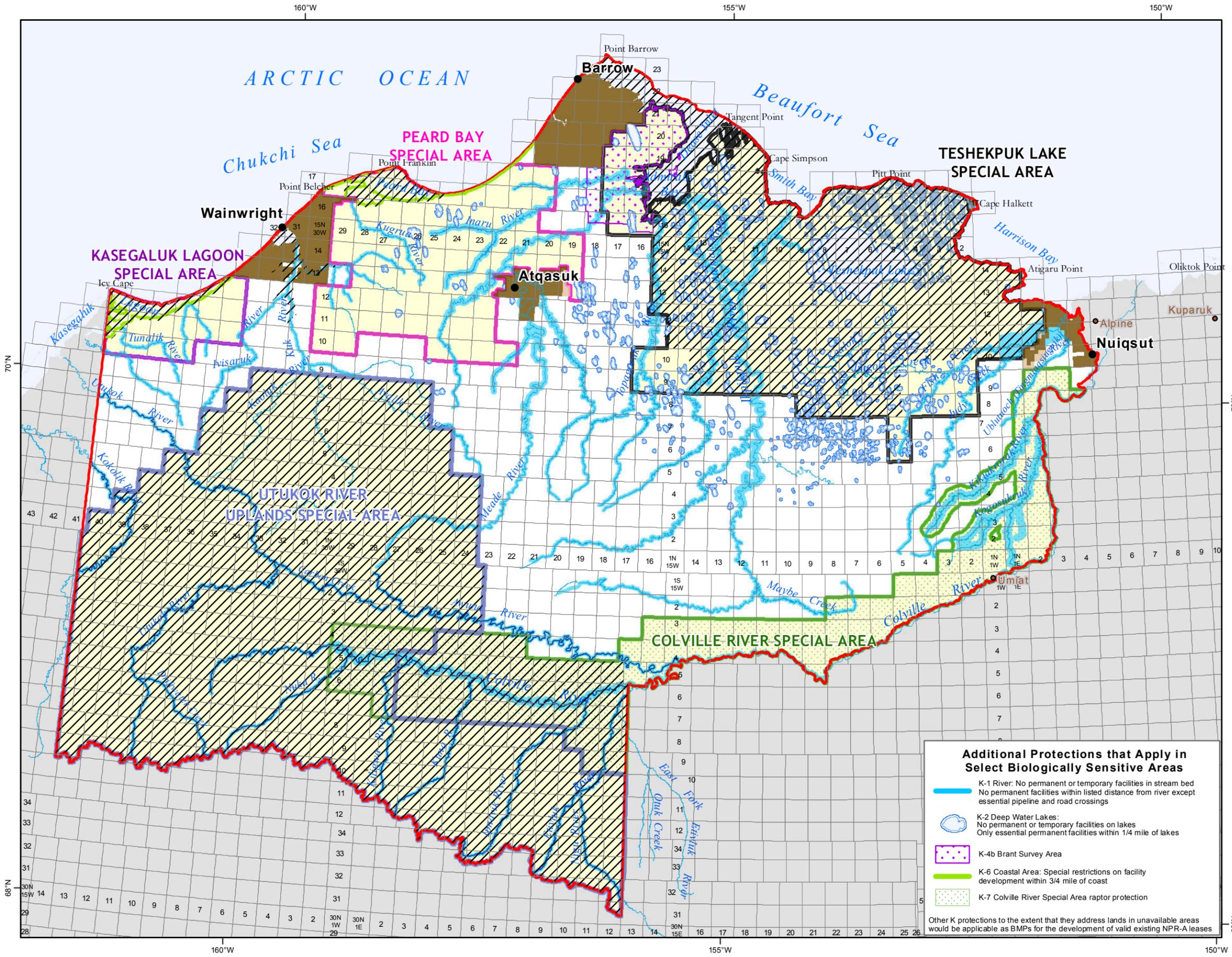


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Projection: Albers Conic Equal Area
referencing NAD83

Bureau of Land Management - Alaska
National Petroleum Reserve - Alaska
Draft IAP/EIS

- Additional Protections that Apply in Select Biologically Sensitive Areas**
- K-1 River: No permanent or temporary facilities in stream bed. No permanent facilities within listed distance from river except essential pipeline and road crossings.
 - K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes.
 - K-3a Teshekpuk Lake not available for oil and gas leasing; permanent oil and gas facilities prohibited onshore within 1/4 mile of Teshekpuk Lake; permanent oil and gas facilities, except pipelines, prohibited in indicated portions of Ts. 14-15 N., R. 9 W. and T. 15 N. 8 W. U.M. greater than 1/4 mile from Teshekpuk Lake (Stipulation K-3)
 - K-3b Dease Inlet - Admiralty Bay - Elson Lagoon - Associated Barrier Islands: Special stipulations for exploration and development
 - K-4a Goose Molting Lakes: Permanent oil and gas facilities, with the exception of pipelines, prohibited
 - K-4a Goose Molting Area
 - Goose molting research required (Table 2-2)
 - K-4b Brant Survey Area
 - K-5a Teshekpuk Lake Caribou Habitat Area
 - K-5b Caribou Study Area
 - K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast
 - K-7 Colville River Special Area raptor protection and CRSAMP Protection 2
 - K-8a Plk Dunes: Surface structures, except approximately perpendicular pipeline crossings and ice pads, are prohibited
 - K-8b Kasegaluk Lagoon: Permanent oil and gas facilities prohibited within the Kasegaluk Lagoon Special Area
 - K-9 Caribou Movement Corridors: Permanent oil and gas facilities, with the exception of pipelines, prohibited
 - K-10 Southern Caribou Calving Area: Permanent oil and gas facilities, with the exception of pipelines, prohibited
 - K-11 Lease Tracts with surface occupancy limited to a maximum of 300 acres per tract



MAP 2-2 Alternative B

- Special Areas**
- Colville River
 - Teshekpuk Lake
 - Utukok River Uplands
 - Peard Bay
 - Kasegaluk Lagoon

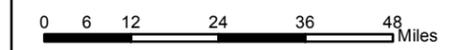
- Wild & Scenic Rivers**
- Wild & Scenic Rivers

Oil & Gas

Unavailable and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasegaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferral in Northwestern NPR-A until 2014 as depicted in Alternative A would be honored.

- Land Status**
- Native Patent or IC
 - Native Selected
 - Lakes
 - NPR-A Boundary



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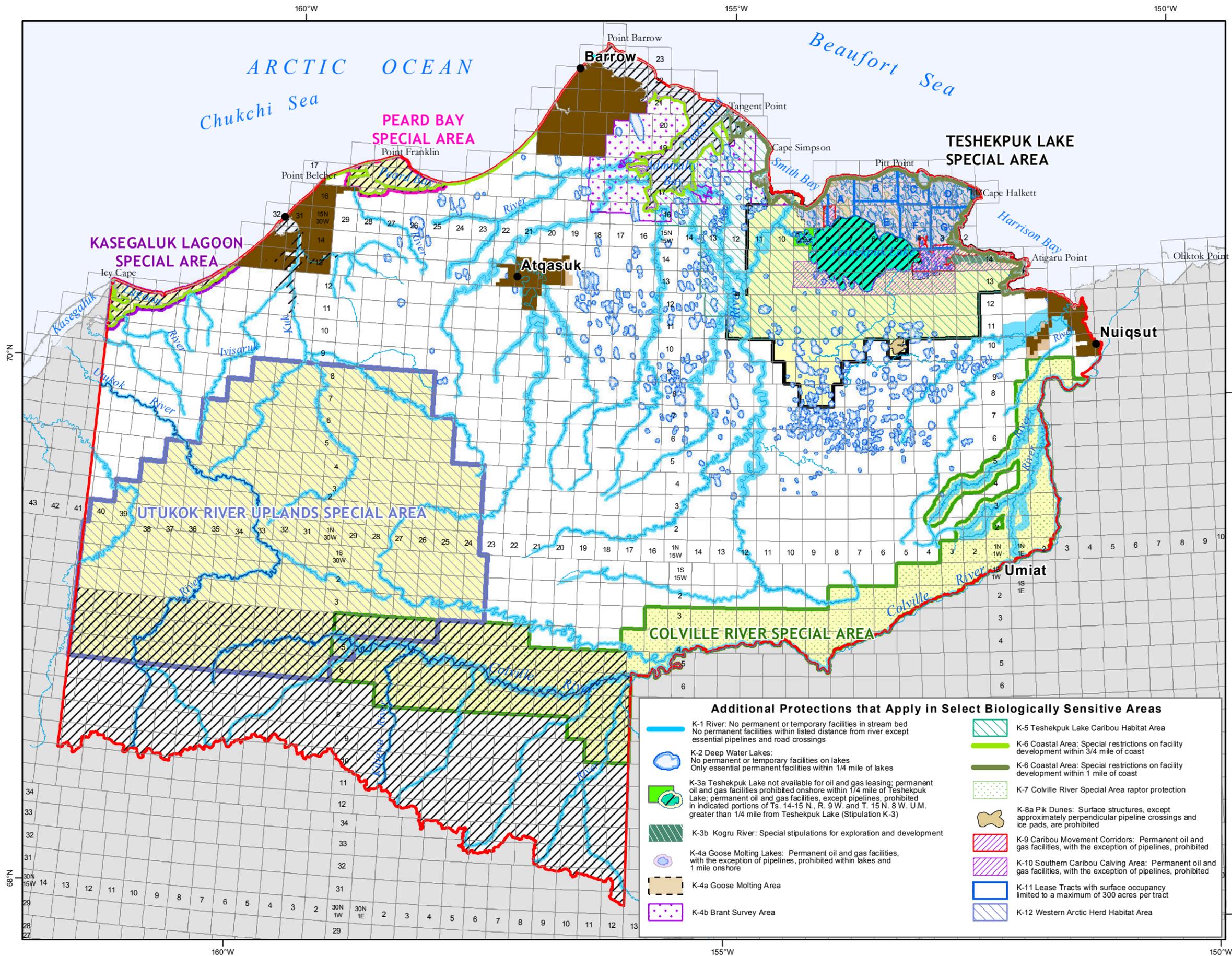


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Additional Protections that Apply in Select Biologically Sensitive Areas

- K-1 River: No permanent or temporary facilities in stream bed. No permanent facilities within listed distance from river except essential pipeline and road crossings
- K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes
- K-4b Brant Survey Area
- K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast
- K-7 Colville River Special Area raptor protection

Other K protections to the extent that they address lands in unavailable areas would be applicable as BMPs for the development of valid existing NPR-A leases



**MAP 2-3
Alternative
C**

Special Areas

- Colville River
- Teshekpuk Lake
- Utukok River Uplands
- Peard Bay
- Kasegaluk Lagoon

Wild & Scenic Rivers

- Wild & Scenic Rivers

Oil & Gas

- Unavailable and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasegaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

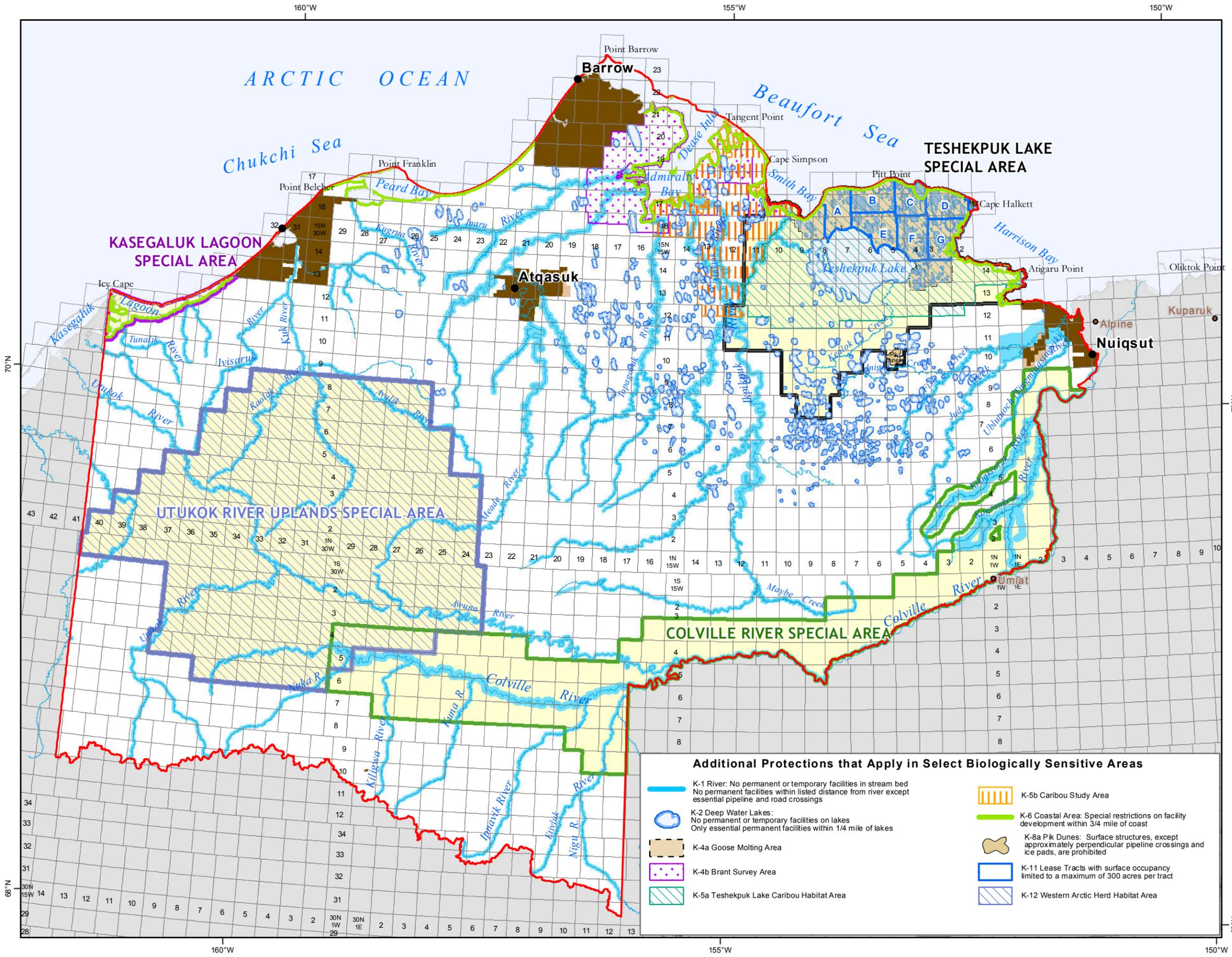
Land Status

- Native Patent or IC
- Native Selected
- NPR-A Boundary

0 6 12 24 36 48 Miles

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MAP 2-4 Alternative D

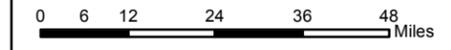
- Special Areas**
- Colville River
 - Teshekpuk Lake
 - Utukok River Uplands
 - Kasegaluk Lagoon

Oil & Gas

All BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

- Land Status**
- Native Patent or IC
 - Native Selected
 - Lakes
 - NPR-A Boundary



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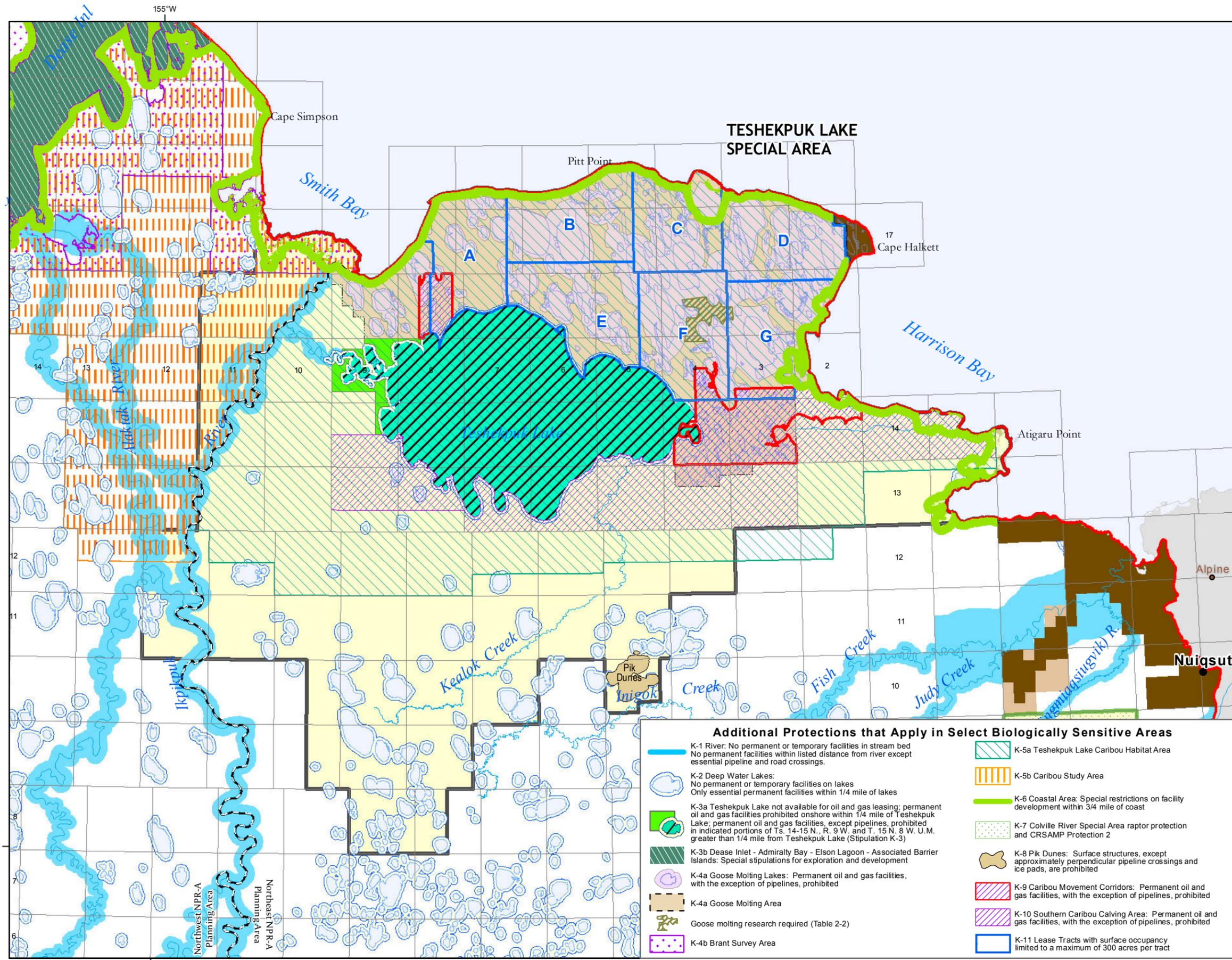
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referencing NAD83



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 - K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes
 - K-4a Goose Molting Area
 - K-4b Brant Survey Area
 - K-5a Teshekpuk Lake Caribou Habitat Area
 - K-5b Caribou Study Area
 - K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast
 - K-8a Pk Dunes: Surface structures, except approximately perpendicular pipeline crossings and ice pads, are prohibited
 - K-11 Lease Tracts with surface occupancy limited to a maximum of 300 acres per tract
 - K-12 Western Arctic Herd Habitat Area

MAP 2-1T Alternative A



Special Areas

- Colville River
- Teshekpuk Lake

Oil & Gas

- Unavailable: 2008 ROD
- Deferred to 2018

All other BLM-managed subsurface would be available for leasing

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

Land Status

- Native Patent or IC
- Native Selected
- NPR-A Boundary



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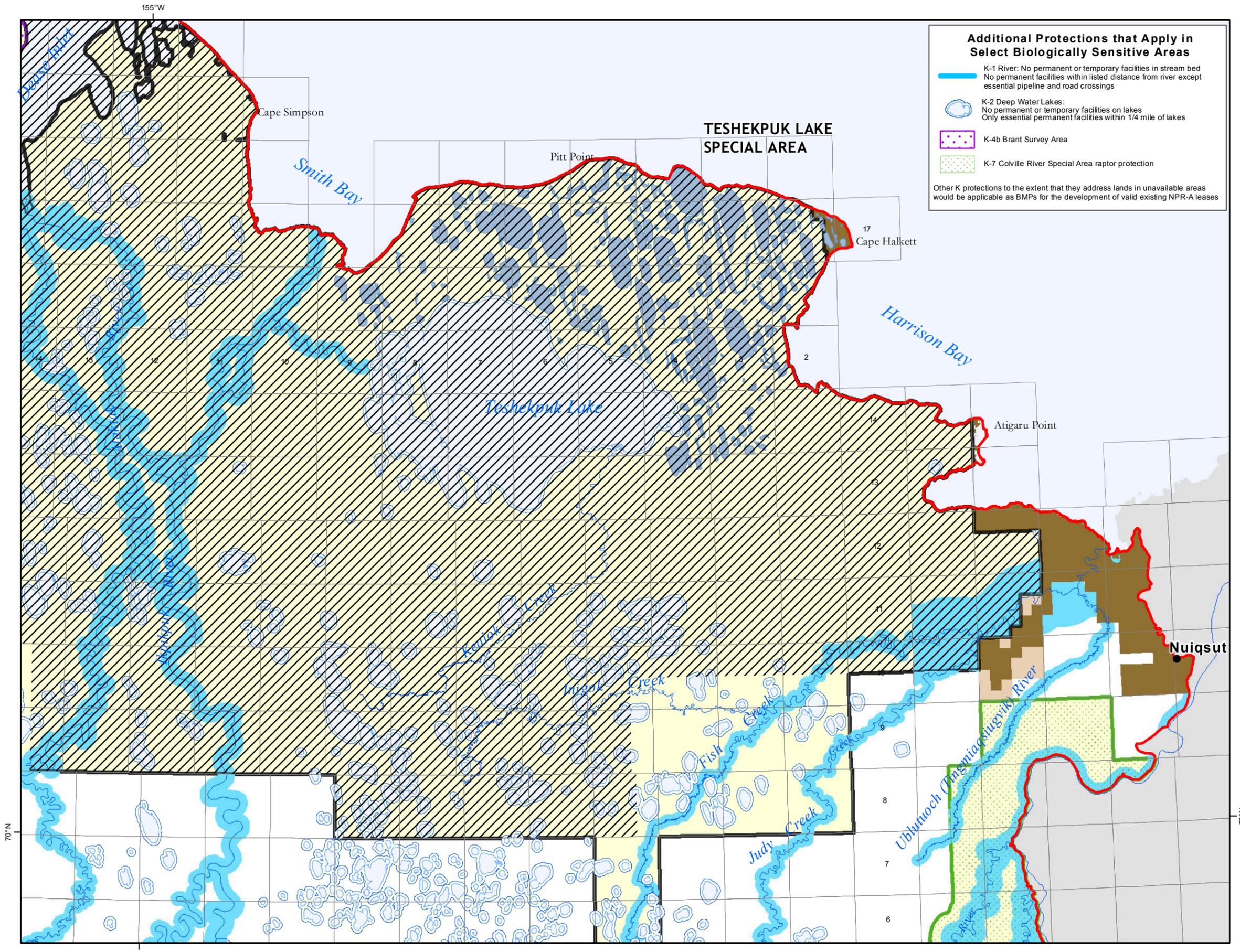
Projection: Albers Conic Equal Area
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Additional Protections that Apply in Select Biologically Sensitive Areas

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- K-2 Deep Water Lakes: No permanent or temporary facilities on lakes. Only essential permanent facilities within 1/4 mile of lakes.
- K-4b Brant Survey Area
- K-7 Colville River Special Area raptor protection

Other K protections to the extent that they address lands in unavailable areas would be applicable as BMPs for the development of valid existing NPR-A leases

MAP 2-2T
Alternative B

Special Areas

- Colville River
- Teshekpuk Lake

Oil & Gas

Unavailable

and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/ Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasagaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferral in Northwestern NPR-A until 2014 as depicted in Alternative A would be honored.

Land Status

- Native Patent or IC
- Native Selected
- Lakes
- NPR-A Boundary

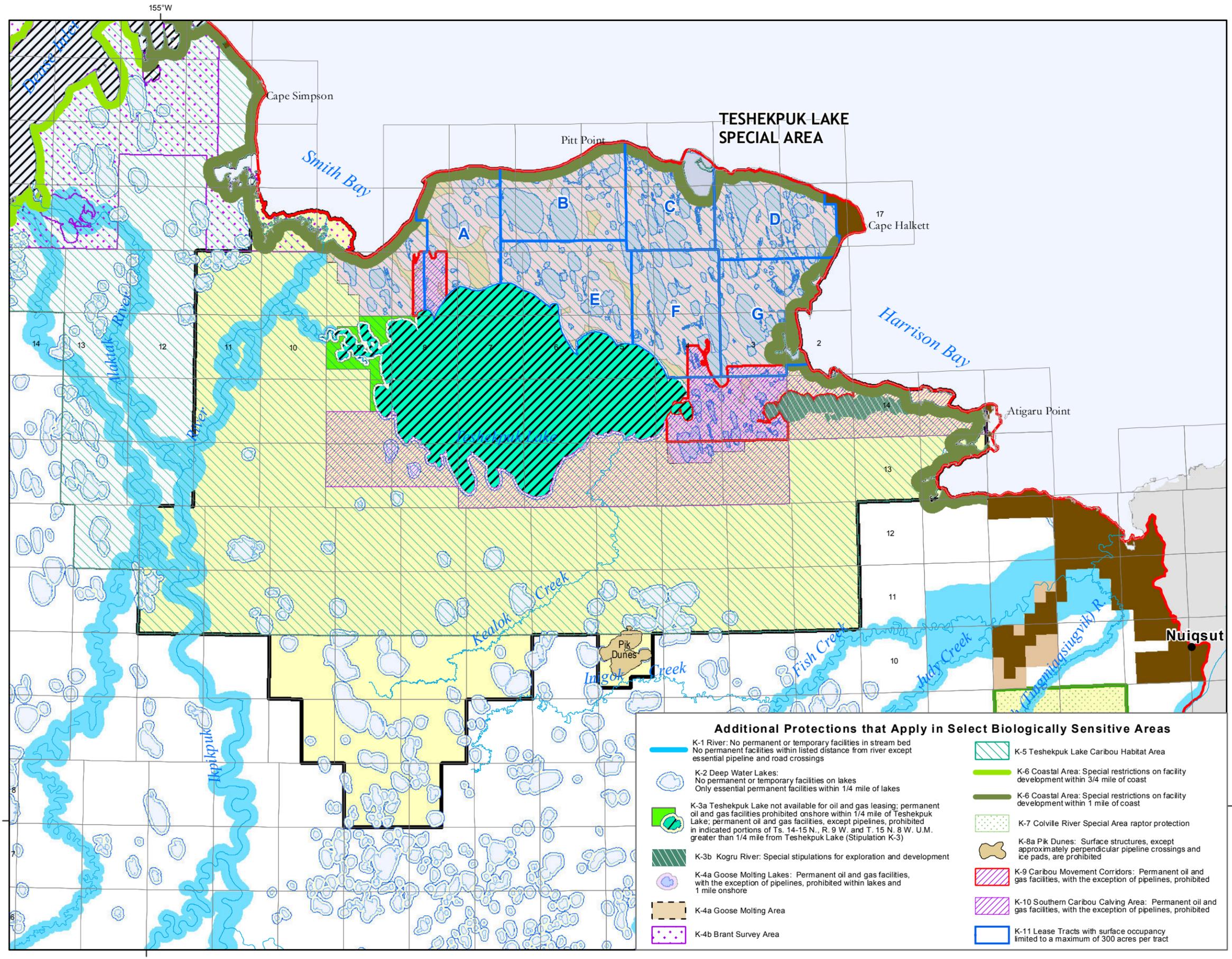


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Projection: Albers Conic Equal Area referencing NAD83



MAP 2-3T Alternative C



Special Areas

- Colville River
- Teshekpuk Lake

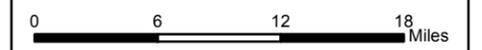
Oil & Gas

Unavailable and no exploratory drilling or non-subsistence permanent infrastructure (including for potential offshore development), except for valid existing NPR-A leases and Wainwright Inlet/Kuk River subsurface pipeline; unavailable areas include the coastal waterbodies' islands and 1-mile inland from Kasegaluk Lagoon and Peard Bay

All other BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Land Status

- Native Patent or IC
- Native Selected
- NPR-A Boundary



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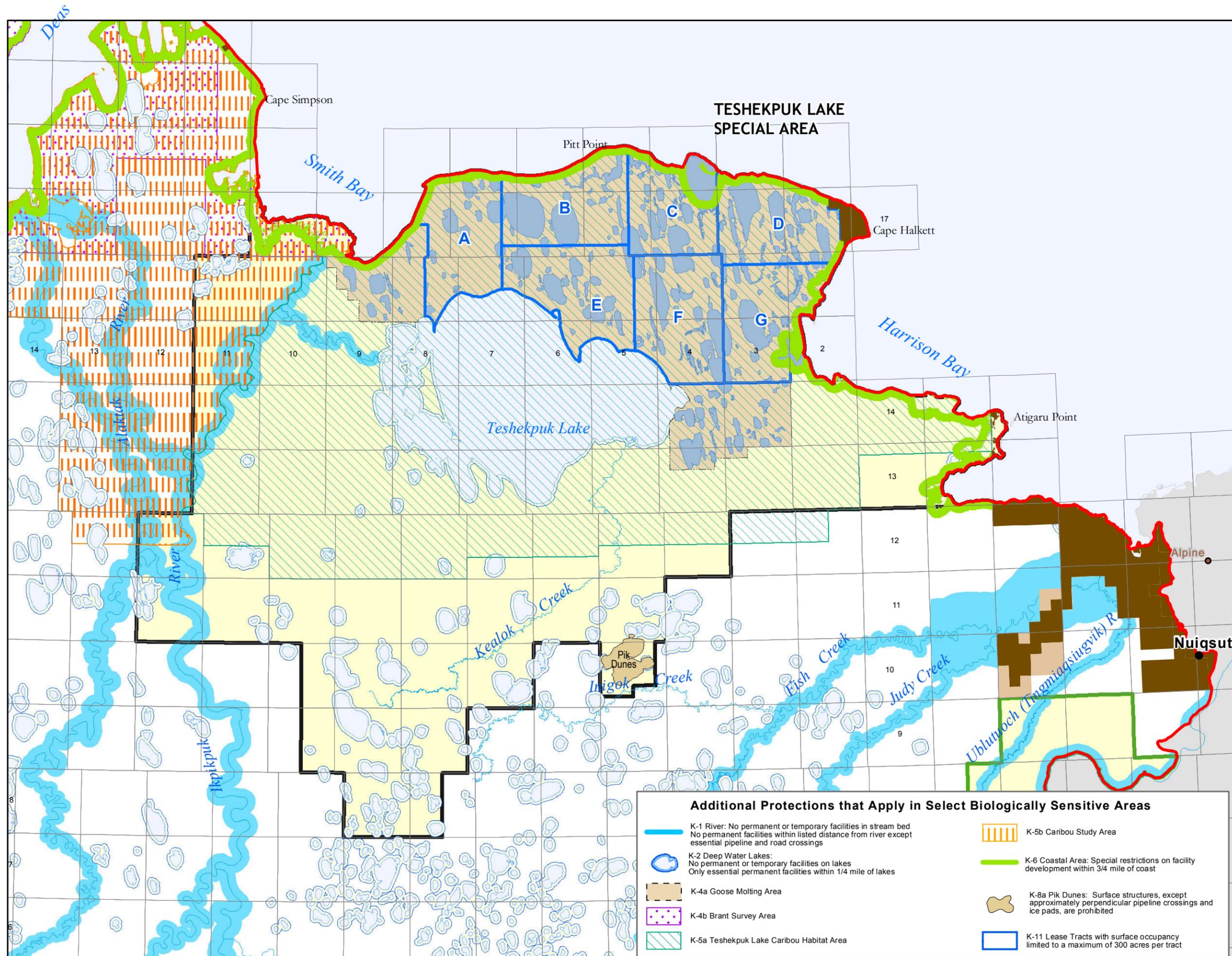
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Draft IAP/EIS

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- K-3b Kogru River:** Special stipulations for exploration and development.
- K-4a Goose Molting Lakes:** Permanent oil and gas facilities, with the exception of pipelines, prohibited within lakes and 1 mile onshore.
- K-4a Goose Molting Area**
- K-4b Brant Survey Area**
- K-5 Teshekpuk Lake Caribou Habitat Area**
- K-6 Coastal Area:** Special restrictions on facility development within 3/4 mile of coast.
- K-6 Coastal Area:** Special restrictions on facility development within 1 mile of coast.
- K-7 Colville River Special Area raptor protection**
- K-8a Pk Dunes:** Surface structures, except approximately perpendicular pipeline crossings and ice pads, are prohibited.
- K-9 Caribou Movement Corridors:** Permanent oil and gas facilities, with the exception of pipelines, prohibited.
- K-10 Southern Caribou Calving Area:** Permanent oil and gas facilities, with the exception of pipelines, prohibited.
- K-11 Lease Tracts:** with surface occupancy limited to a maximum of 300 acres per tract.

MAP 2-4 T Alternative D



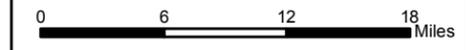
- Special Areas**
- Colville River
 - Teshekpuk Lake
 - Utukok River Uplands
 - Kasegaluk Lagoon

Oil & Gas

All BLM-managed subsurface would be available for leasing, but the leasing deferrals as depicted in Alternative A would be honored.

Infrastructure in support of offshore development may be allowed, subject to future permitting decisions.

- Land Status**
- Native Patent or IC
 - Native Selected
 - Lakes
 - NPR-A Boundary



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 - K-5b Caribou Study Area
 - K-6 Coastal Area: Special restrictions on facility development within 3/4 mile of coast
 - K-8a Pik Dunes: Surface structures, except approximately perpendicular pipeline crossings and ice pads, are prohibited
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NPR-A IAP/EIS

Land Allocation Summary

Land Allocation	Alternative A	Alternative B	Alternative C	Alternative D
Lands that Could be Offered for O&G Leasing	13 million acres (57% of NPR-A subsurface available; 1.57 million deferred until 2014; 425,000 deferred until 2018)	11 million acres (48% of NPR-A subsurface; current deferrals honored until expiration)	17.9 million acres (76% of NPR-A subsurface; current deferrals honored until expiration)	22.8 million acres (100% of NPR-A subsurface; current deferrals honored until expiration)
USGS-estimated Undiscovered Oil and Gas available	Oil: 453 mb; 92% Gas: 9.6 tcf; 56%	Oil: 235 mb; 48% Gas: 7.2 tcf; 43%	Oil: 437 mb; 89% Gas: 14.5 tcf; 86%	Oil: 491 mb; 100% Gas: 16.9 tcf; 100%
Special Areas	4 (8.3 million acres) TLSA: 1.75 million acres CRSA: 2.44 million acres URUSA: 3.97 million acres KLSA: 97,000 acres	5 (15.5 million acres) TLSA: 3.76 million acres CRSA: 2.44 million acres URUSA: 7.06 million acres KLSA: 364,000 acres PBSA: 1.6 million acres	5 (9.0 million acres) TLSA: 1.87 million acres CRSA: 2.44 million acres URUSA: 4.44 million acres KLSA: 97,000 acres PBSA: 107,000 acres	4 (8.3 million acres) TLSA: 1.75 million acres CRSA: 2.44 million acres URUSA: 3.97 million acres KLSA: 97,000 acres
Wild and Scenic River Recommendations	0	12 Wild River designation	3 Scenic River designation	0

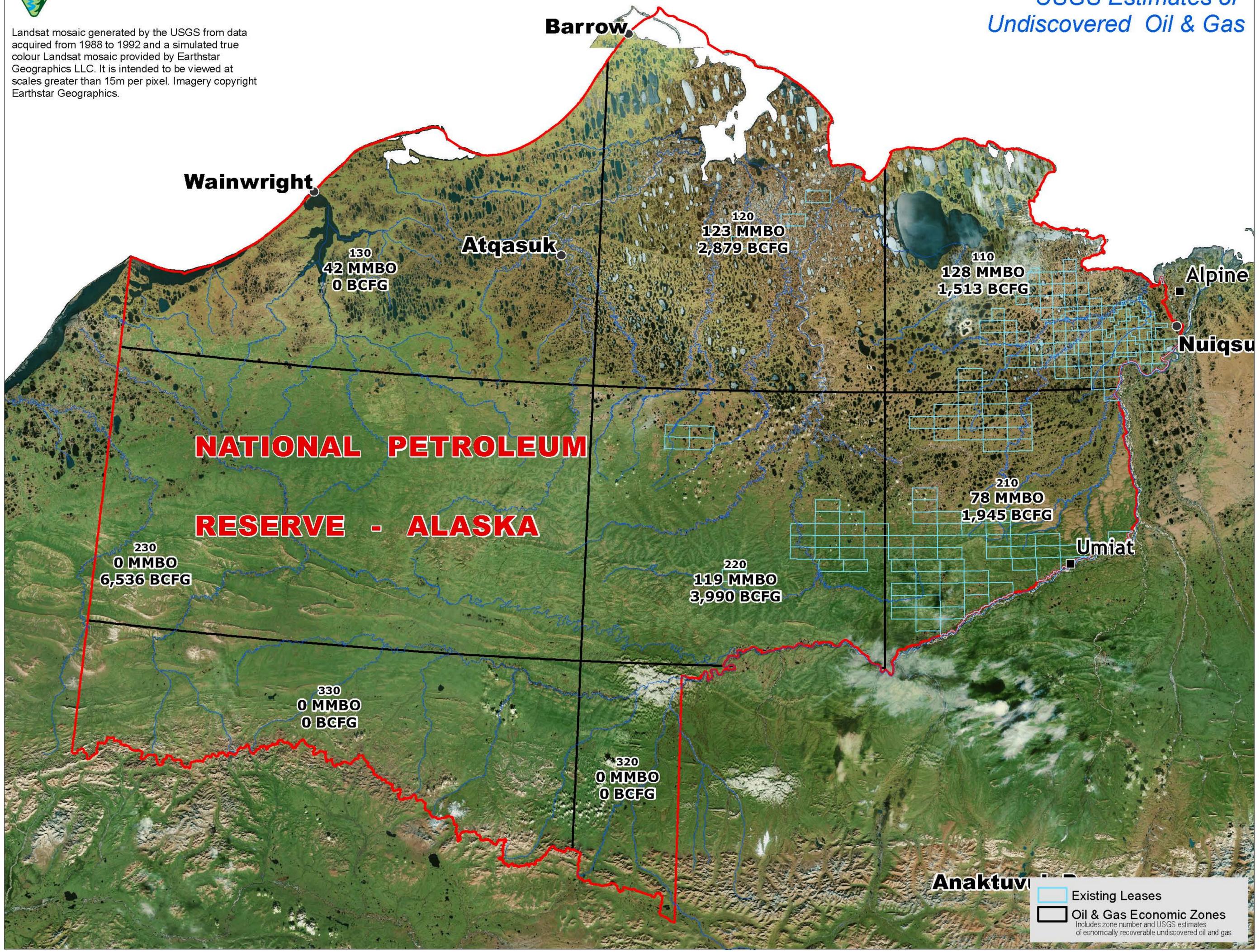
Estimates of Discovered Oil and Gas

Greater Mooses Tooth and Bears Tooth: 120 mb oil and 1.5 tcf gas

Umiat: 150 mb oil, no gas



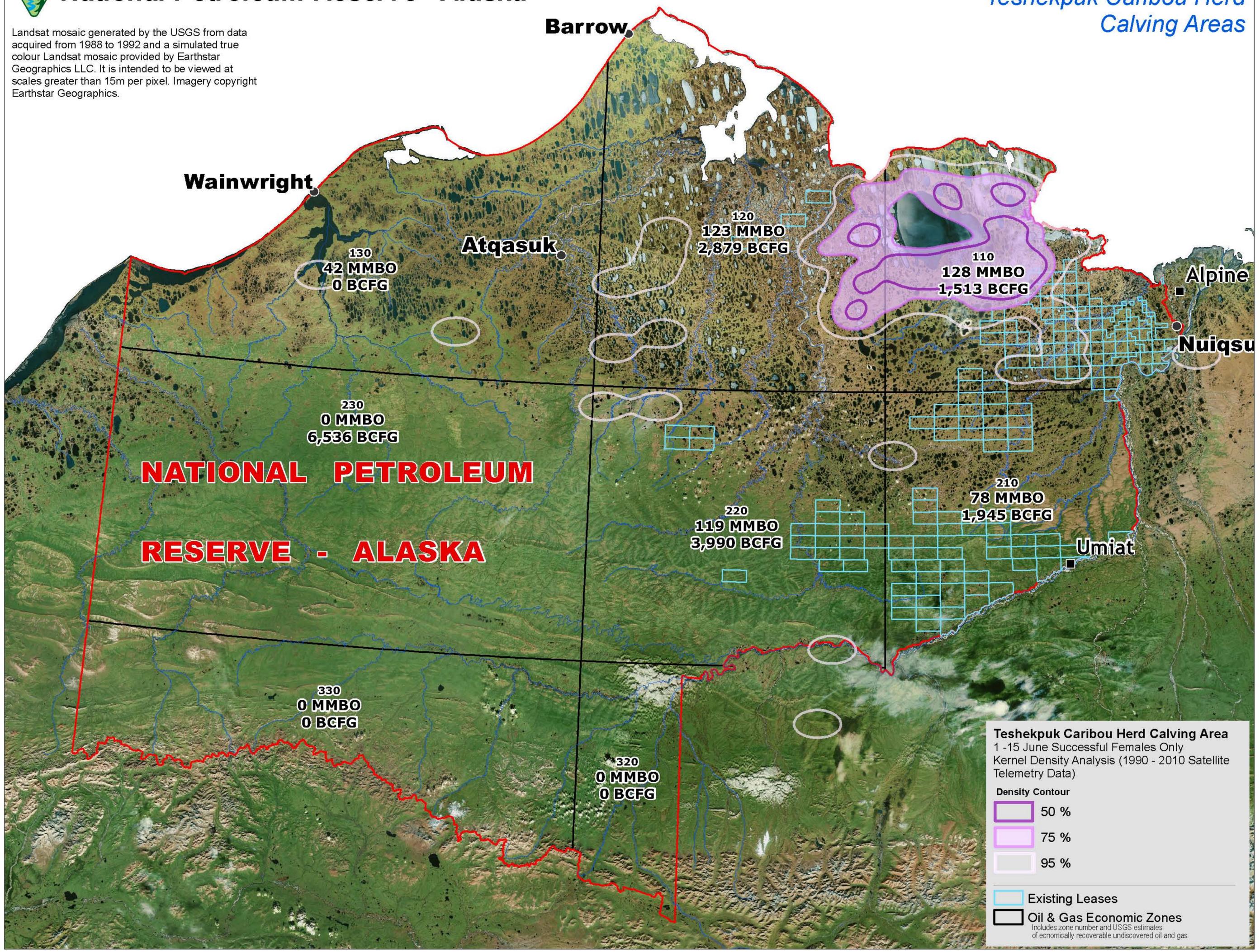
Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



Existing Leases

Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.

Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



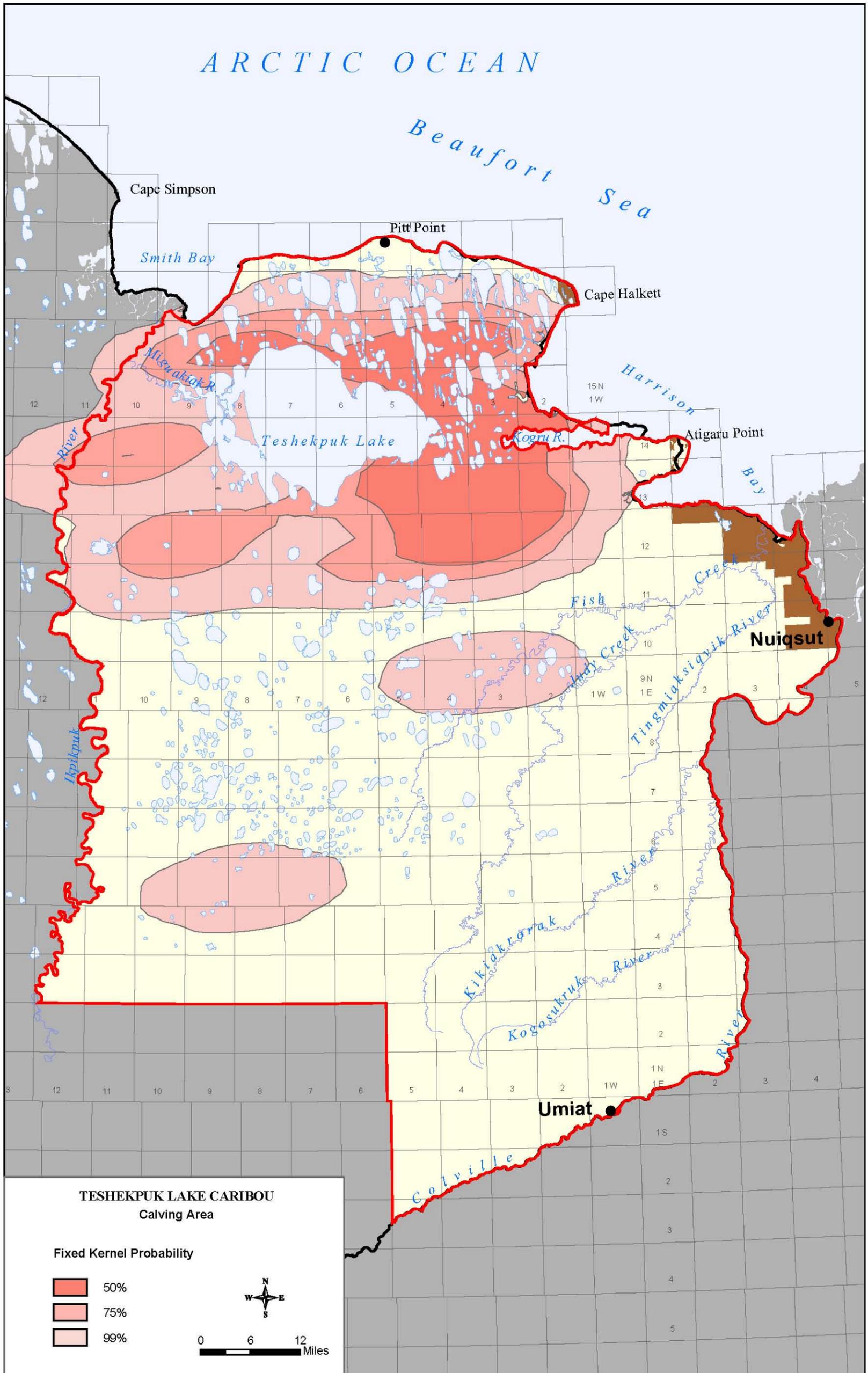
**NATIONAL PETROLEUM
RESERVE - ALASKA**

Teshekpuk Caribou Herd Calving Area
1 -15 June Successful Females Only
Kernel Density Analysis (1990 - 2010 Satellite Telemetry Data)

Density Contour

-  50 %
-  75 %
-  95 %

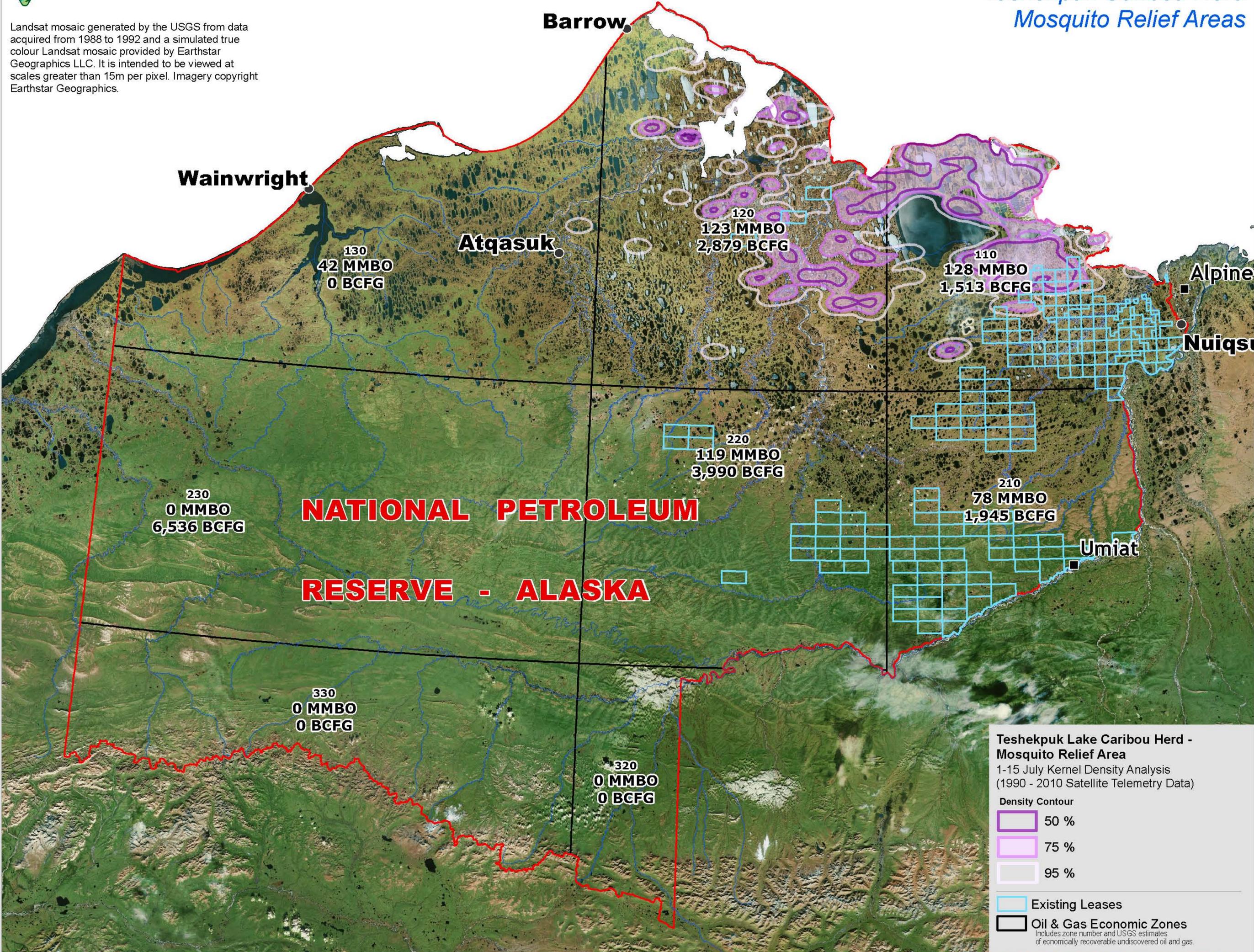
-  Existing Leases
-  Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.



Source: Alaska Department of Fish & Game, North Slope Borough, USDOI - BLM and ABR Inc. - Environmental Research and Services

Map 3-23. Teshekpuk Lake Caribou Herd Calving Areas (successful females only) in the Northeast National Petroleum Reserve-Alaska (1990 - 2005 Satellite Telemetry Data)

Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



Teshekpuk Lake Caribou Herd - Mosquito Relief Area
 1-15 July Kernel Density Analysis
 (1990 - 2010 Satellite Telemetry Data)

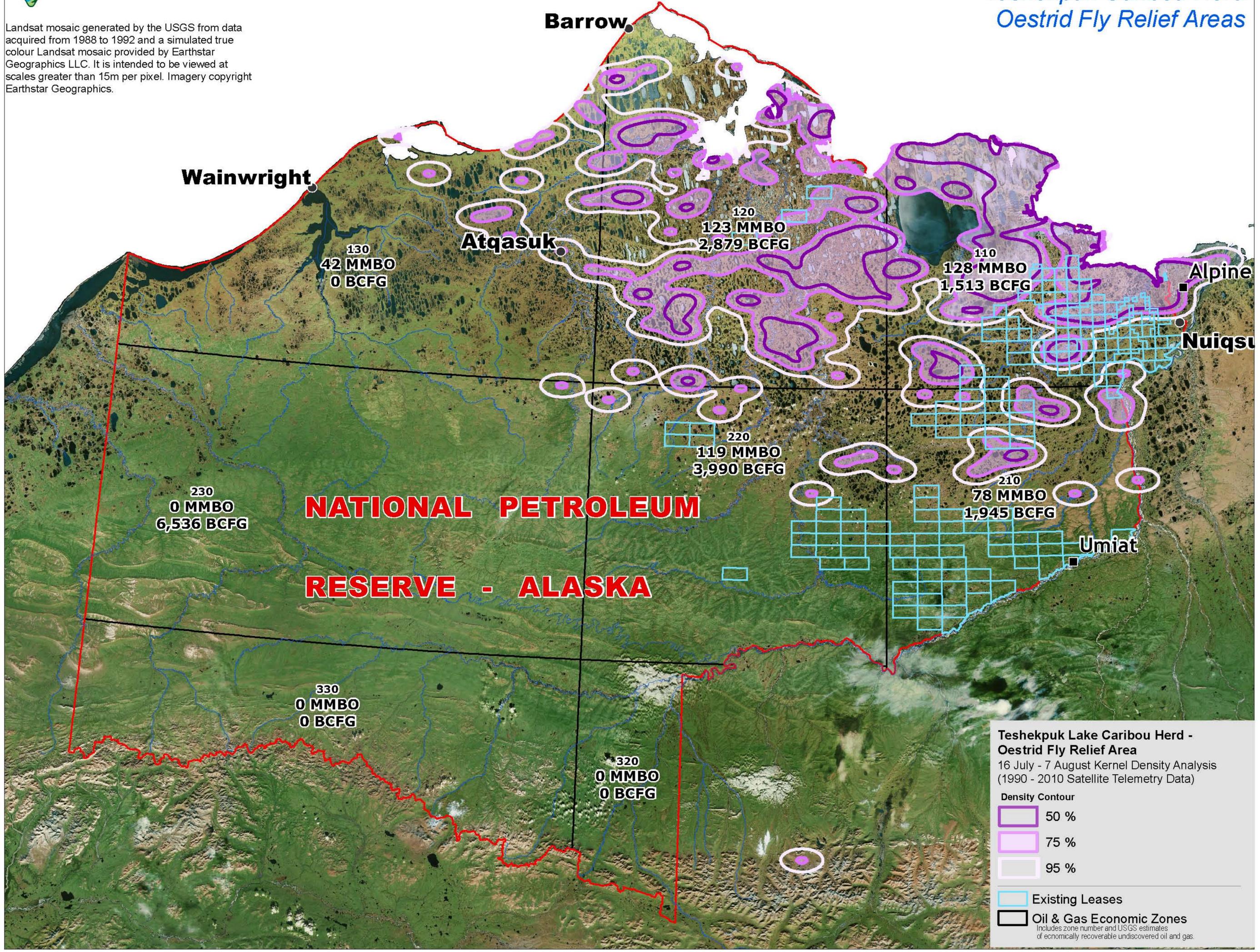
Density Contour

- 50 %
- 75 %
- 95 %

 Existing Leases

 Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.

Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



Teshekpuk Lake Caribou Herd - Oestrid Fly Relief Area
 16 July - 7 August Kernel Density Analysis (1990 - 2010 Satellite Telemetry Data)

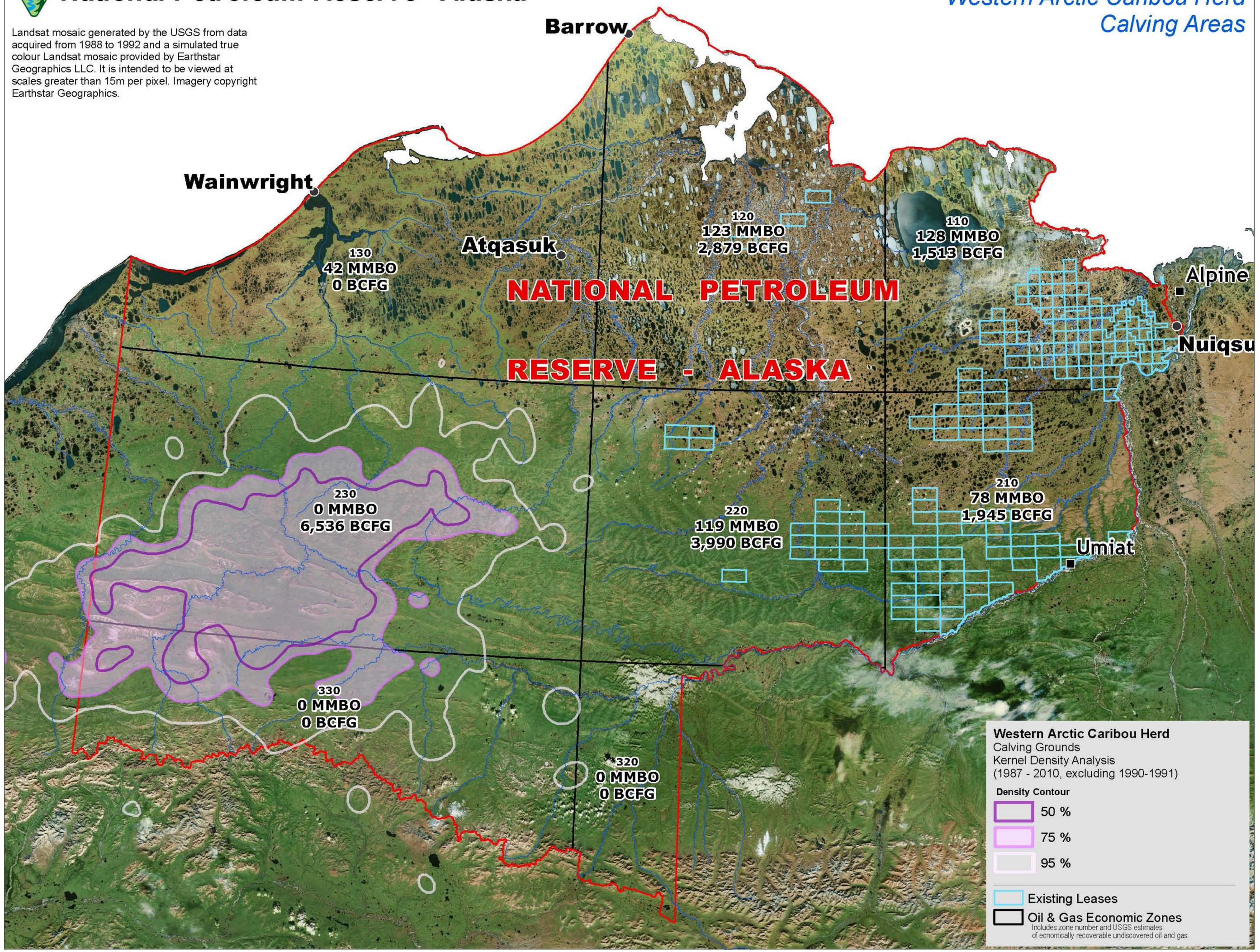
Density Contour

- 50 %
- 75 %
- 95 %

Existing Leases

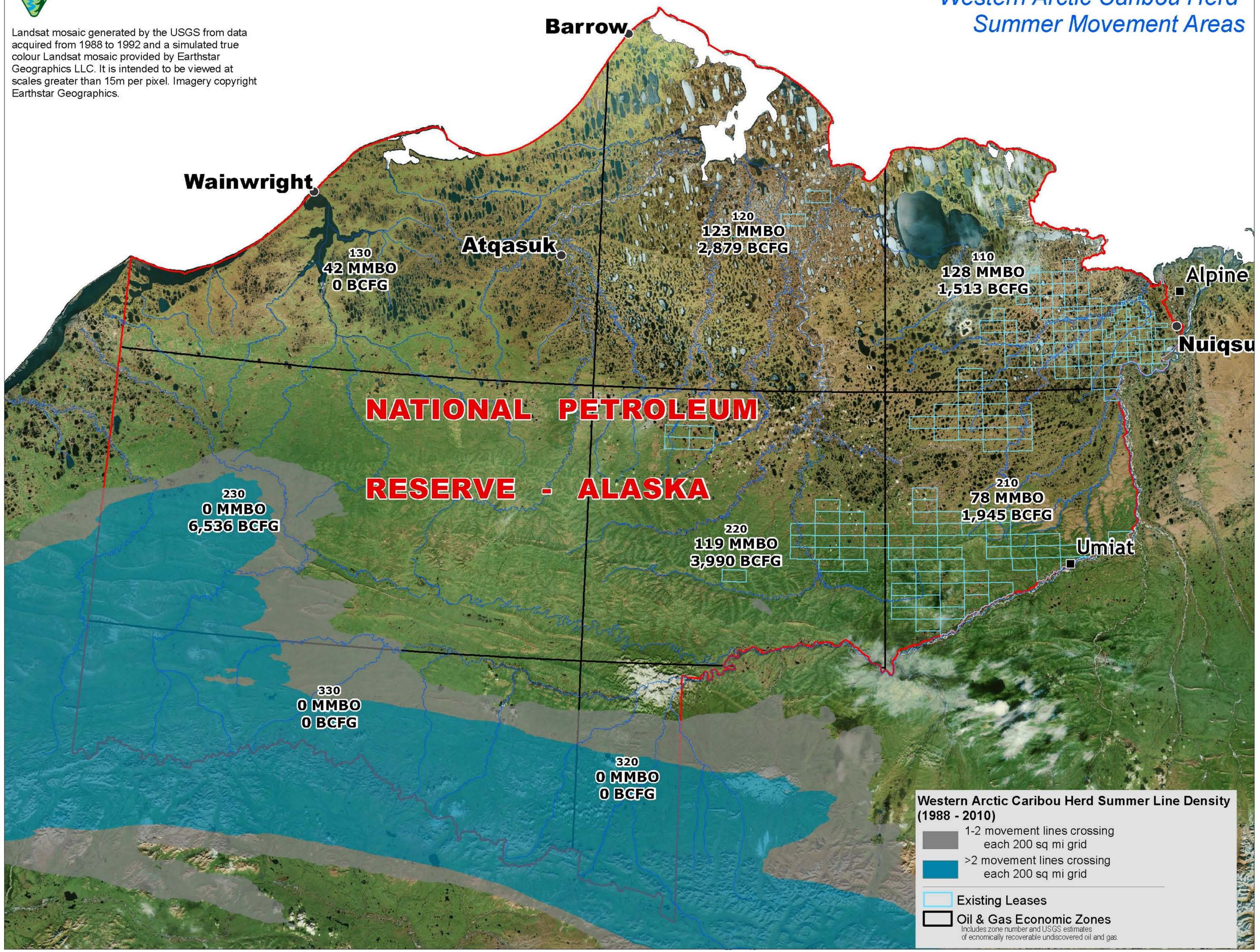
Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.

Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.





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NATIONAL PETROLEUM RESERVE - ALASKA

130
42 MMBO
0 BCFG

120
123 MMBO
2,879 BCFG

110
128 MMBO
1,513 BCFG

230
0 MMBO
6,536 BCFG

220
119 MMBO
3,990 BCFG

210
78 MMBO
1,945 BCFG

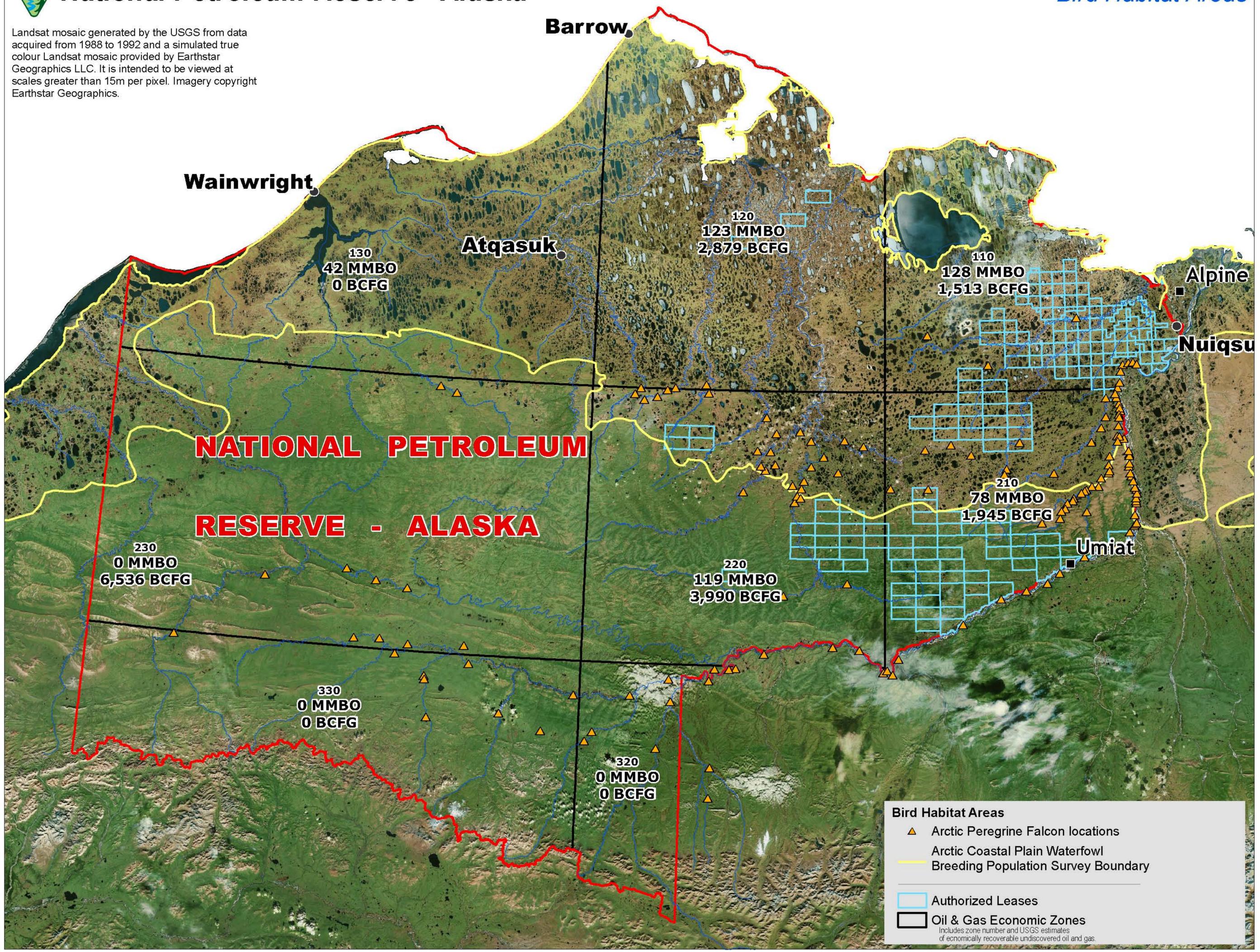
330
0 MMBO
0 BCFG

320
0 MMBO
0 BCFG

Western Arctic Caribou Herd Summer Line Density (1988 - 2010)

- 1-2 movement lines crossing each 200 sq mi grid
- >2 movement lines crossing each 200 sq mi grid
- Existing Leases
- Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.

Landsat mosaic generated by the USGS from data acquired from 1988 to 1992 and a simulated true colour Landsat mosaic provided by Earthstar Geographics LLC. It is intended to be viewed at scales greater than 15m per pixel. Imagery copyright Earthstar Geographics.



Bird Habitat Areas

-  Arctic Peregrine Falcon locations
-  Arctic Coastal Plain Waterfowl
-  Breeding Population Survey Boundary

-  Authorized Leases
-  Oil & Gas Economic Zones
Includes zone number and USGS estimates of economically recoverable undiscovered oil and gas.