



U.S. Geological Survey 2005 Oil and Gas Resource Assessment of the Central North Slope, Alaska: Play Maps and Results

By Christopher P. Garrity, David W. Houseknecht, Kenneth J. Bird, Christopher J. Potter, Thomas E. Moore, Philip H. Nelson, and Christopher J. Schenk

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Introduction

The U.S. Geological Survey (USGS) released in 2005 a summary of the estimated volume of technically recoverable, undiscovered petroleum resources for 24 plays in the central North Slope of Alaska (Bird and Houseknecht, 2005) — the area between the National Petroleum Reserve in Alaska (NPRA) and the Arctic National Wildlife Refuge (ANWR). The assessment study area includes mostly State and Native lands onshore and adjacent State offshore areas (plate 1). Results of the Central North Slope petroleum resource assessment are shown in table 1 for each play and for aggregated totals.

Twenty-four (24) plays (assessment units) were defined as a basis for the petroleum resource assessment. The stratigraphic extent of each play is shown in figure 1 and the areal extent of each play is shown in plates 2 through 22. Areal play boundaries were drawn on the basis of a variety of information, including seismic-reflection data, results of previous exploration drilling, and regional patterns of rock properties. Both the stratigraphic and areal boundaries of these 24 plays match similar plays that were assessed in the NPRA (Bird and Houseknecht, 2002; Garrity and others, 2002) and in the ANWR 1002 Area (Bird and Houseknecht, 2001; ANWR Assessment Team, 1999).

Play boundary polygons were captured by digitizing the play maps prepared by USGS geologists. Federal, Native, and State areas were later clipped from the play boundary polygons, allowing for acreages to be calculated for entire plays and for various subareas within plays.

References Cited

- ANWR Assessment Team, 1999, The oil and gas resource potential of the Arctic National Wildlife Refuge 1002 Area, Alaska: U.S. Geological Survey Open-File Report 98-34, CD-ROM.
- Bird, K.J., and Houseknecht, D.W., 2001, Arctic National Wildlife Refuge, 1002 Area, Petroleum Assessment, 1998, Including Economic Analysis: U.S. Geological Survey Fact Sheet 028-01, 6 p. Available online at: <http://geology.cr.usgs.gov/pub/factsheets/fs-0028-01/> (Accessed May 6, 2005).
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- Garrity, C.P., Houseknecht, D.W., and Bird, K.J., 2002, U.S. Geological Survey 2002 petroleum resource assessment of the National Petroleum Reserve in Alaska: GIS Play maps: U.S. Geological Survey Open-File Report 02-439, available online at: <http://pubs.usgs.gov/of/2002/of02-439/> (Accessed May 6, 2005).

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Play Label
in Fig. 1

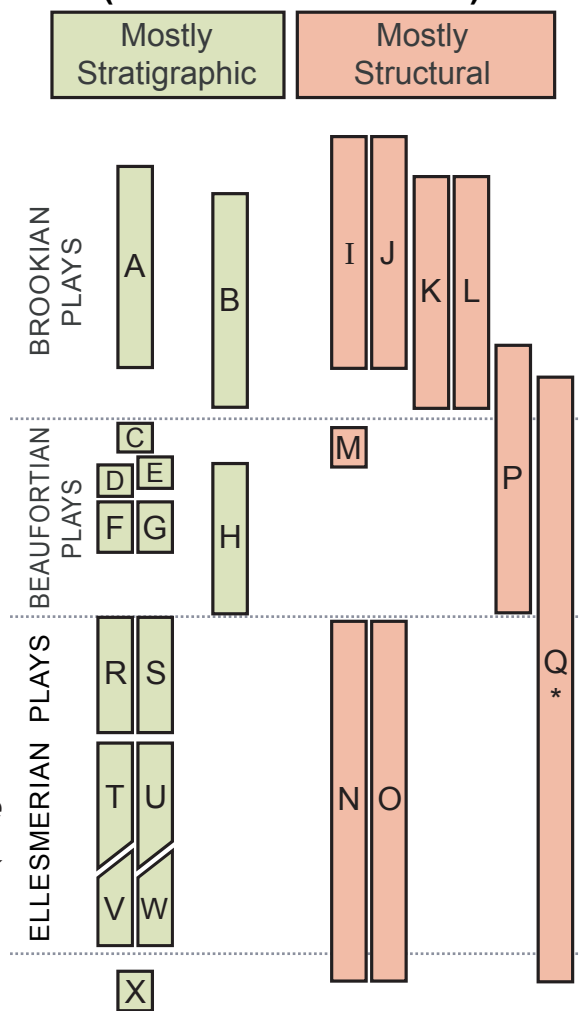
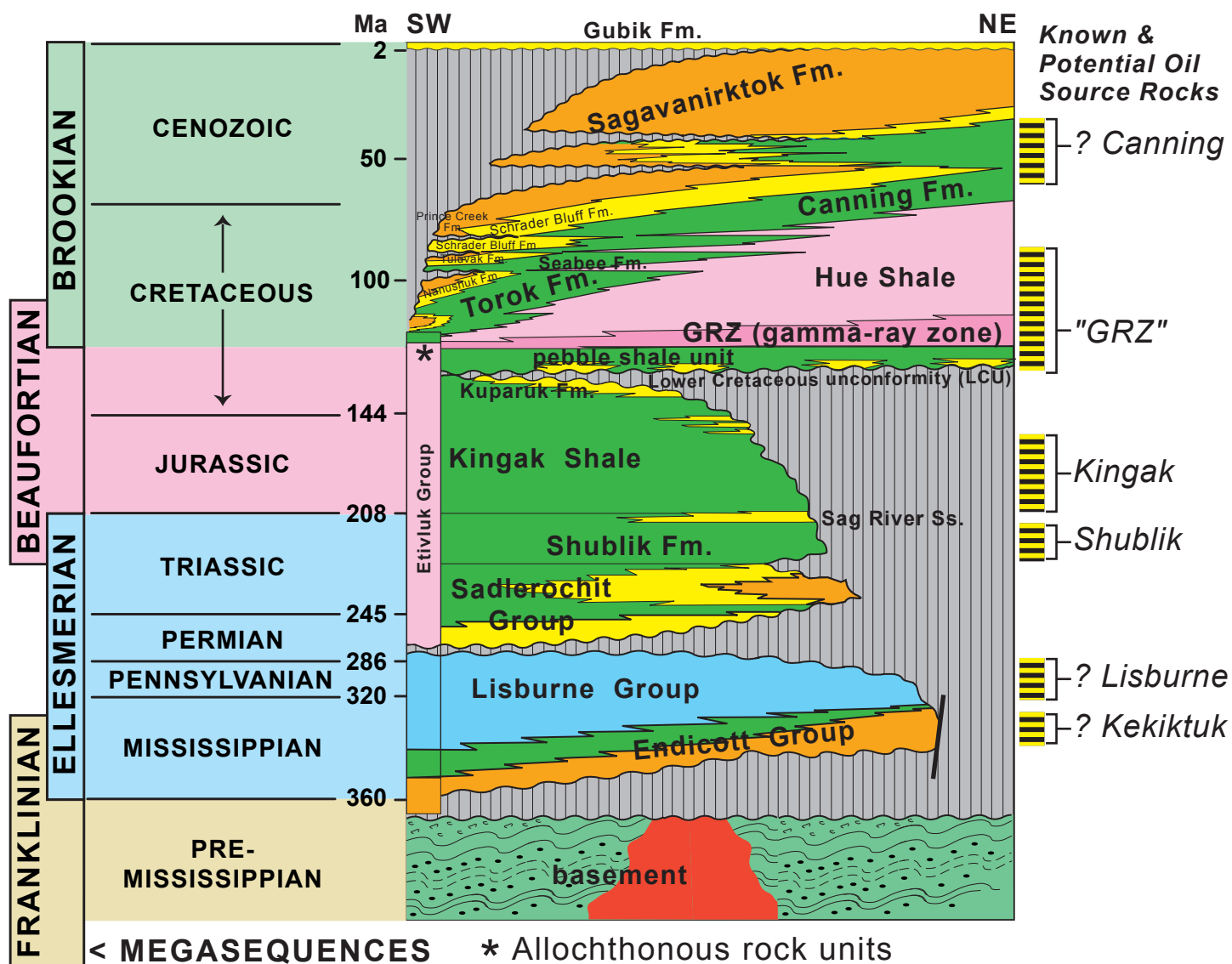
Play Label in Fig. 1	Play (Assessment Unit)	Accumulation type	Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)			
			F95	F50	F05	Mean	F95	F50	F05	Mean	F95	F50	F05	Mean
	BROOKIAN STRATIGRAPHIC UNITS													
A	Brookian Topset	Oil	190	417	772	441	144	316	588	335	2	4	7	4
		Gas					0	525	1,306	584	0	6	16	7
B	Brookian Clinoform	Oil	810	1,561	2,668	1,626	904	1,748	2,993	1,824	17	33	58	35
		Gas					2,913	6,133	10,967	6,436	36	75	134	79
BEAUFORTIAN STRATIGRAPHIC UNITS														
C	Kemik-Thomson	Oil	46	222	556	252	83	400	1,002	454	4	18	46	21
		Gas					466	2,075	4,931	2,308	6	27	64	30
D	Beaufortian Kuparuk Topset	Oil	78	166	305	175	60	477	238	136	1	2	4	2
		Gas					0	477	1,253	536	0	6	16	7
E	Beaufortian Cretaceous Shelf Margin	Oil	0	0	0	0	0	0	0	0	0	0	0	0
		Gas					0	522	1,415	598	0	7	18	8
F	Beaufortian Upper Jurassic Topset East	Oil	0	0	32	5	0	0	32	5	0	0	0	0
		Gas					0	0	605	141	0	0	8	2
G	Beaufortian Upper Jurassic Topset West	Oil	40	136	284	145	40	135	280	144	1	2	4	2
		Gas					0	246	771	288	0	3	10	4
H	Beaufortian Clinoform	Oil	0	94	340	114	0	138	503	168	0	3	12	4
		Gas					0	904	2,669	956	0	12	35	12
STRUCTURAL UNITS														
I	Brookian Topset Structural North	Oil	0	156	882	263	0	62	372	107	0	0	3	1
		Gas					0	0	1,338	288	0	0	7	1
J	Brookian Topset Structural South	Oil	0	0	119	21	0	0	50	9	0	0	0	0
		Gas					220	1,972	6,009	2,383	1	14	46	17
K	Brookian Clinoform Structural North	Oil	16	113	371	143	17	118	385	149	0	2	8	3
		Gas					0	145	910	248	0	1	10	3
L	Brookian Clinoform Structural South	Oil	0	0	91	17	0	0	43	8	0	0	1	0
		Gas					946	2,418	4,662	2,550	9	24	49	26
M	Beaufortian Structural	Oil	0	0	75	14	0	0	70	13	0	0	1	0
		Gas					0	1,803	5,321	2,124	0	19	57	22
N	Ellesmerian Structural	Oil	0	0	0	0	0	0	0	0	0	0	0	0
		Gas					0	1,370	3,456	1,502	0	18	45	20
O	Basement Involved Structural	Oil	0	0	115	24	0	0	71	14	0	0	2	0
		Gas					672	2,612	6,622	3,016	9	33	84	38
P	Thrust Belt Triangle Zone	Oil	0	15	217	50	0	9	134	31	0	0	2	0
		Gas					750	3,264	8,841	3,843	7	34	99	41
Q	Thrust Belt Lisburne	Oil	0	47	250	75	0	46	249	74	0	1	5	1
		Gas					964	3,250	7,355	3,589	12	40	92	45
ELLESMERIAN AND FRANKLINIAN STRATIGRAPHIC UNITS														
R	Triassic Barrow Arch	Oil	91	337	924	400	112	418	1,147	496	2	9	25	11
		Gas					0	0	0	0	0	0	0	0
S	Ivishak Barrow Flank	Oil	0	0	0	0	0	0	0	0	0	0	0	0
		Gas					0	294	1,183	387	0	4	15	5
T	Lisburne Barrow Arch	Oil	16	109	324	131	15	106	315	129	0	3	8	3
		Gas					0	0	0	0	0	0	0	0
U	Lisburne Barrow Flank	Oil	0	0	0	0	0	0	0	0	0	0	0	0
		Gas					0	796	2,929	1,035	0	10	38	13
V	Endicott Truncation	Oil	0	63	201	77	0	69	223	85	0	2	8	3
		Gas					0	0	0	0	0	0	0	0
W	Endicott	Oil	0	0	0	0	0	0	0	0	0	0	0	0
		Gas					0	425	1,310	500	0	6	17	6
X	Franklinian	Oil	0	6	48	12	0	8	66	17	0	0	2	1
		Gas					0	0	0	0	0	0	0	0
	Total Conventional Resources	Oil	2,565	3,851	5,854	3,984	2,681	4,080	6,092	4,198	55	88	138	91
		Gas					23,939	32,678	44,873	33,318	278	380	521	387

Table 1. Central North Slope assessment results for each play (assessment unit) and aggregated totals. Results shown are fully risked estimates for conventional, undiscovered resources. Two rows of results are shown for each play – the “Oil” row shows petroleum associated with oil accumulations and the “Gas” row shows petroleum associated with gas accumulations. For gas accumulations, all liquids are included under the NGL (natural-gas liquids) category. F95 denotes a 95% chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are not additive. Gray shading indicates not applicable. MMBO, million barrels of oil; BCFG, billion cubic feet of gas; MMBNGL, million barrels of natural-gas liquids.

CENTRAL NORTH SLOPE STRATIGRAPHY

PETROLEUM SYSTEMS

PETROLEUM PLAYS (Assessment Units)



Bars encompass reservoir rocks in each play. Letters refer to play labels in Table 1. *Q composed mostly of allochthonous rocks.

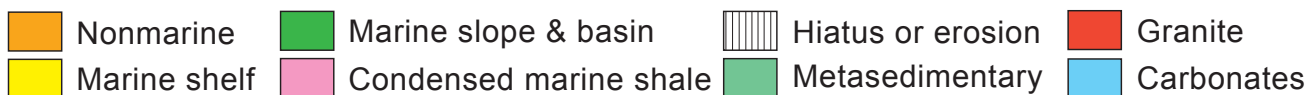


Figure 1. Summary of ages, names, and rock types present in the central North Slope assessment area. Colored bars at right show the stratigraphic position of the 24 petroleum plays evaluated in the 2005 assessment. Letters on colored bars refer to play labels in Table 1, which gives the name of each play and technically recoverable, undiscovered petroleum resources estimated for each play.

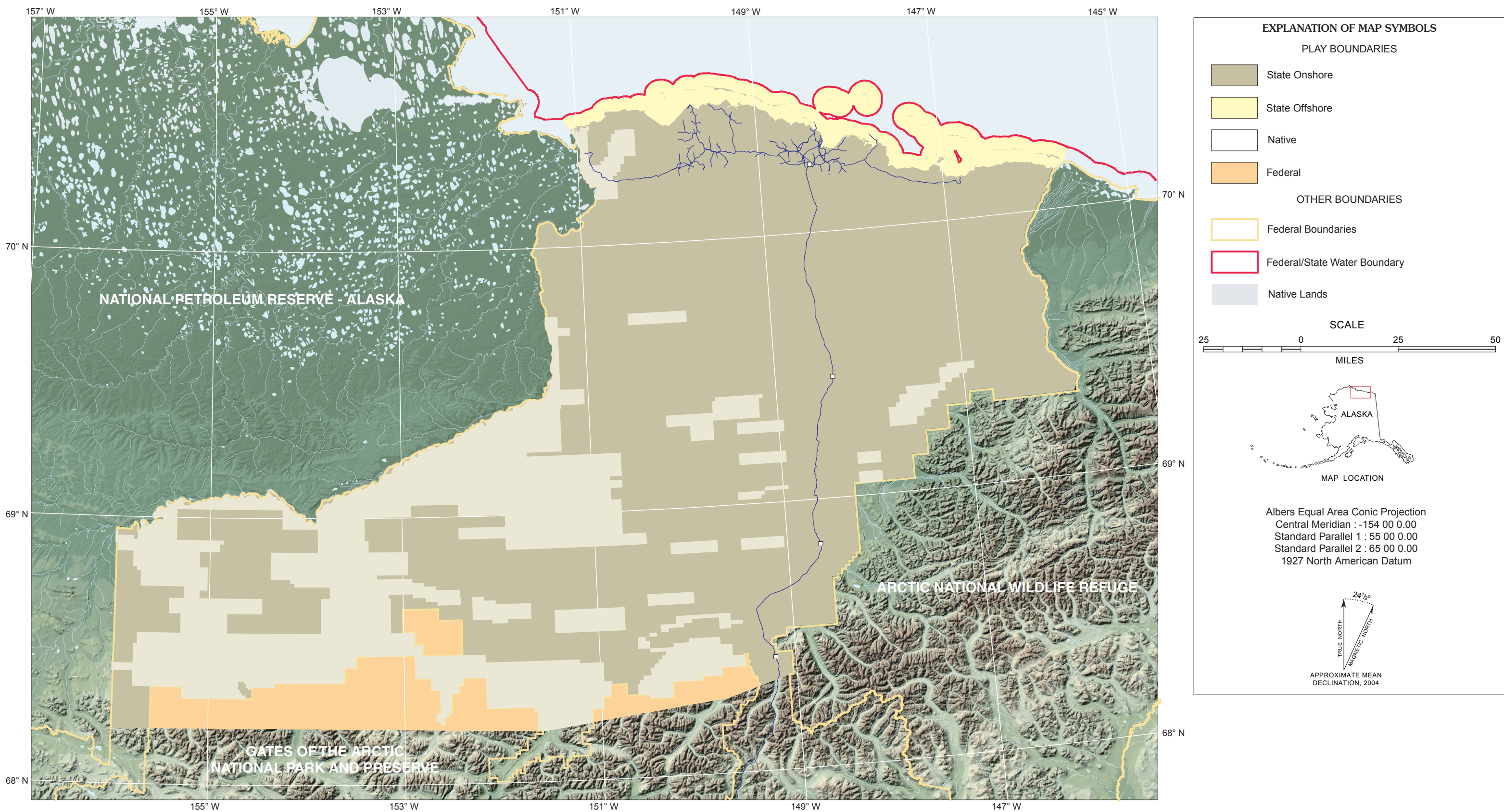
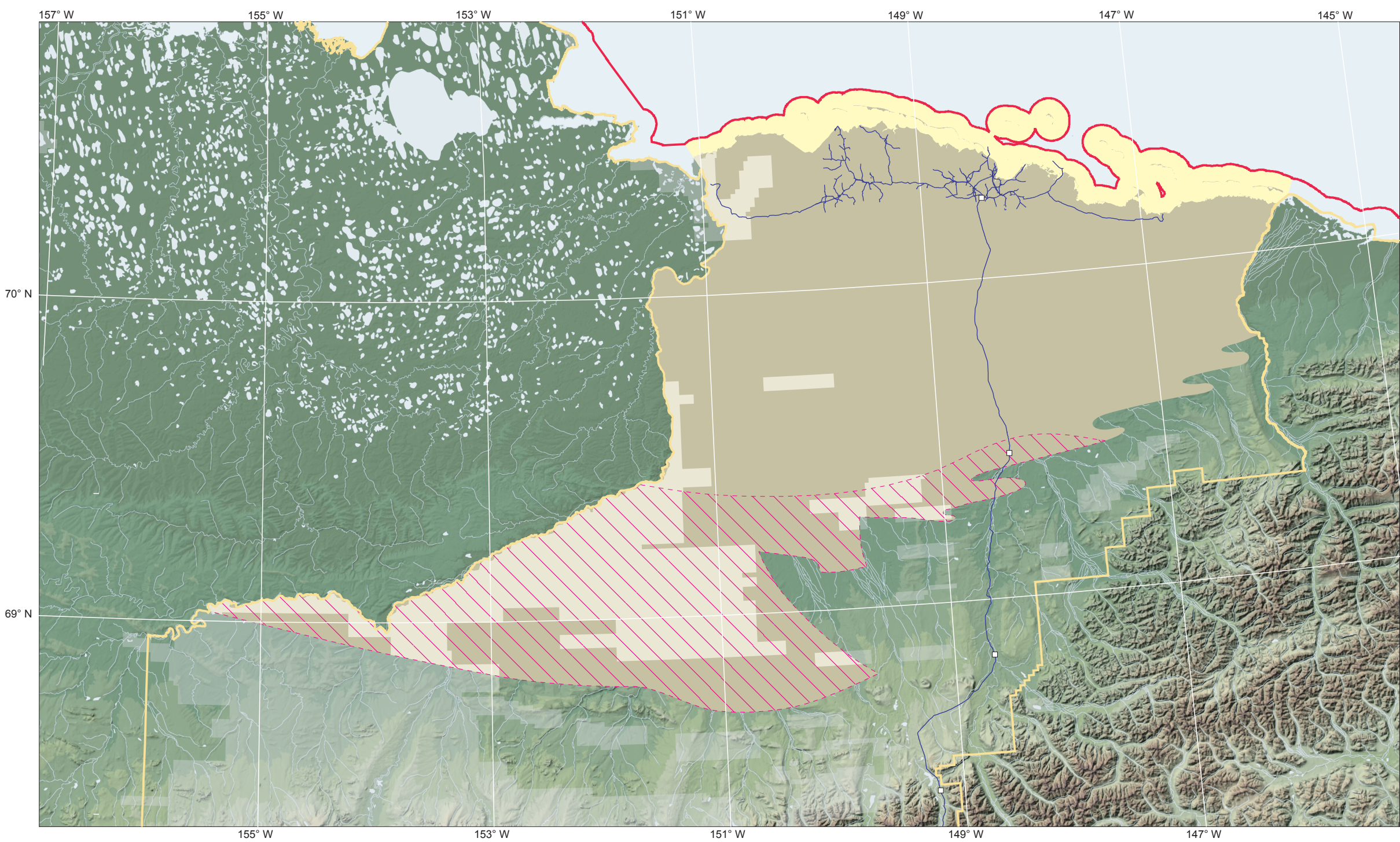


TABLE OF ACREAGES AND PERCENTAGES								
Acreages					Percentages			
State Onshore	State Offshore	Native Lands	Federal	Total	State Onshore	State Offshore	Native Lands	Federal
9,348,431	683,579	3,565,396	955,396	14,552,802	64 %	5 %	24 %	7 %



EXPLANATION OF MAP SYMBOLS

OIL

State Onshore

State Offshore

Native

Federal

GAS

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25 0 25 50

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection

Central Meridian : -154 00 0.00

Standard Parallel 1 : 55 00 0.00

Standard Parallel 2 : 65 00 0.00

1927 North American Datum

TRUE NORTH

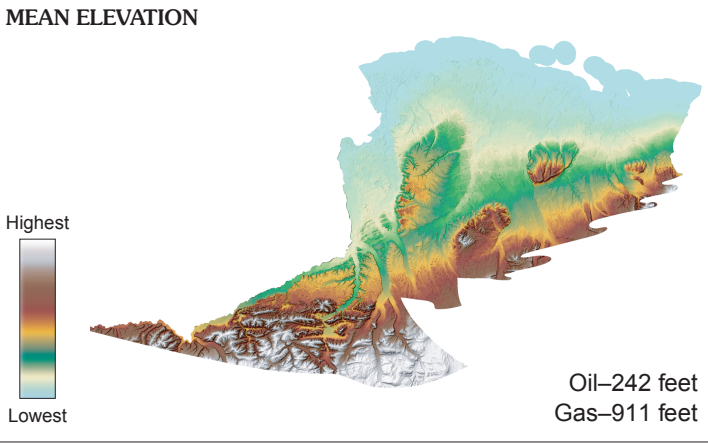
MAGNETIC NORTH

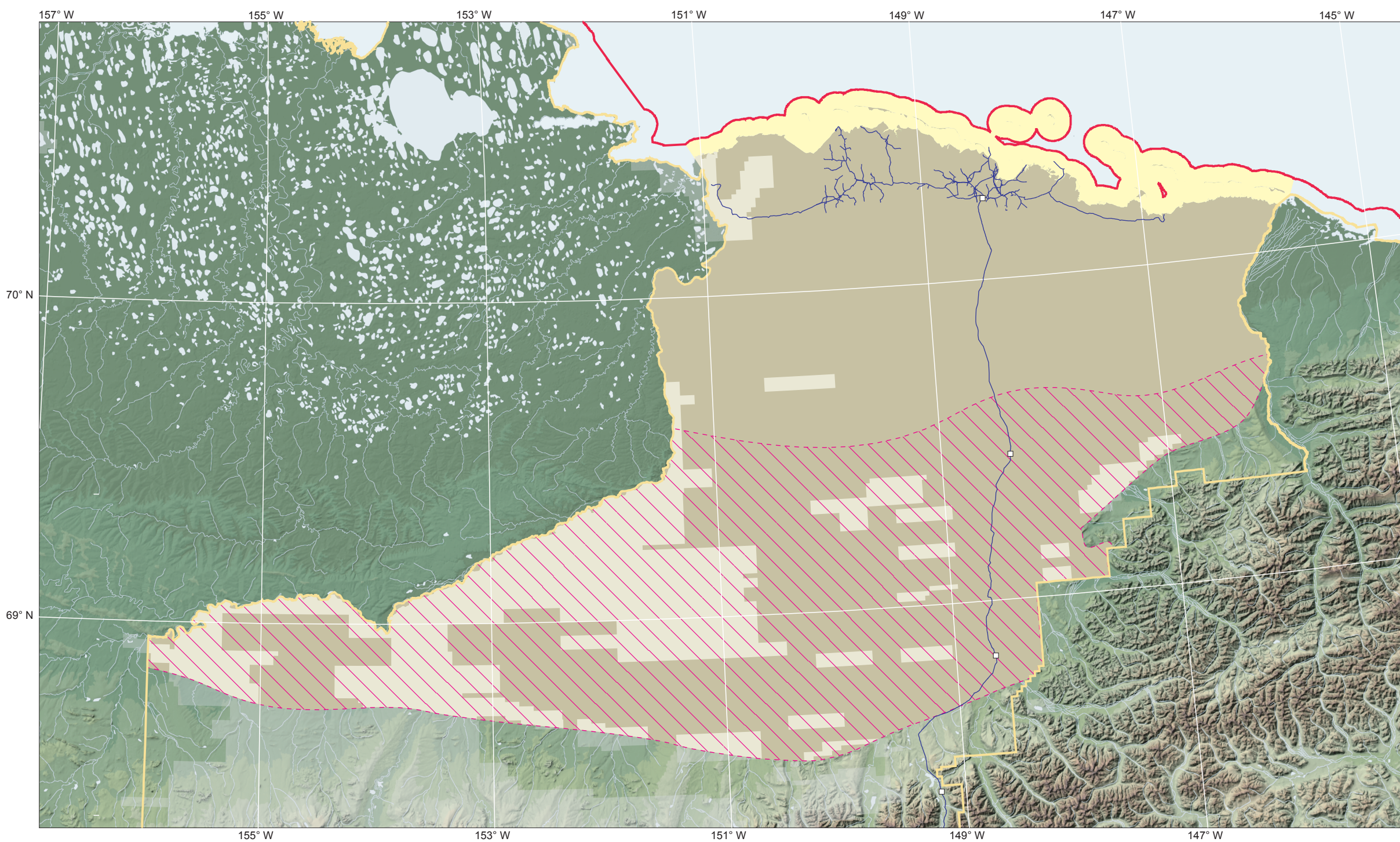
24 1/2°

APPROXIMATE MEAN DECLINATION, 2004

OIL PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
4,579,839	683,579	198,056	0	5,461,473
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
84%	12%	4%	0%	

GAS PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,249,505	0	1,264,006	0	2,513,511
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
50%	0%	50%	0%	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

OIL

State Onshore

State Offshore

Native

Federal

GAS

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25 0 25 50

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

24 1/2°

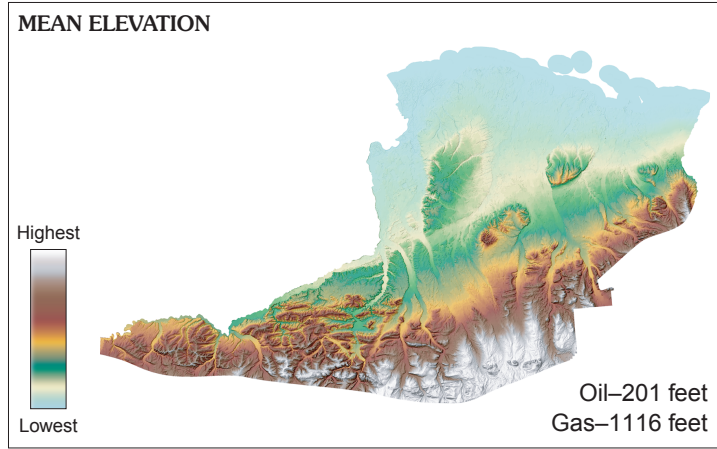
TRUE NORTH

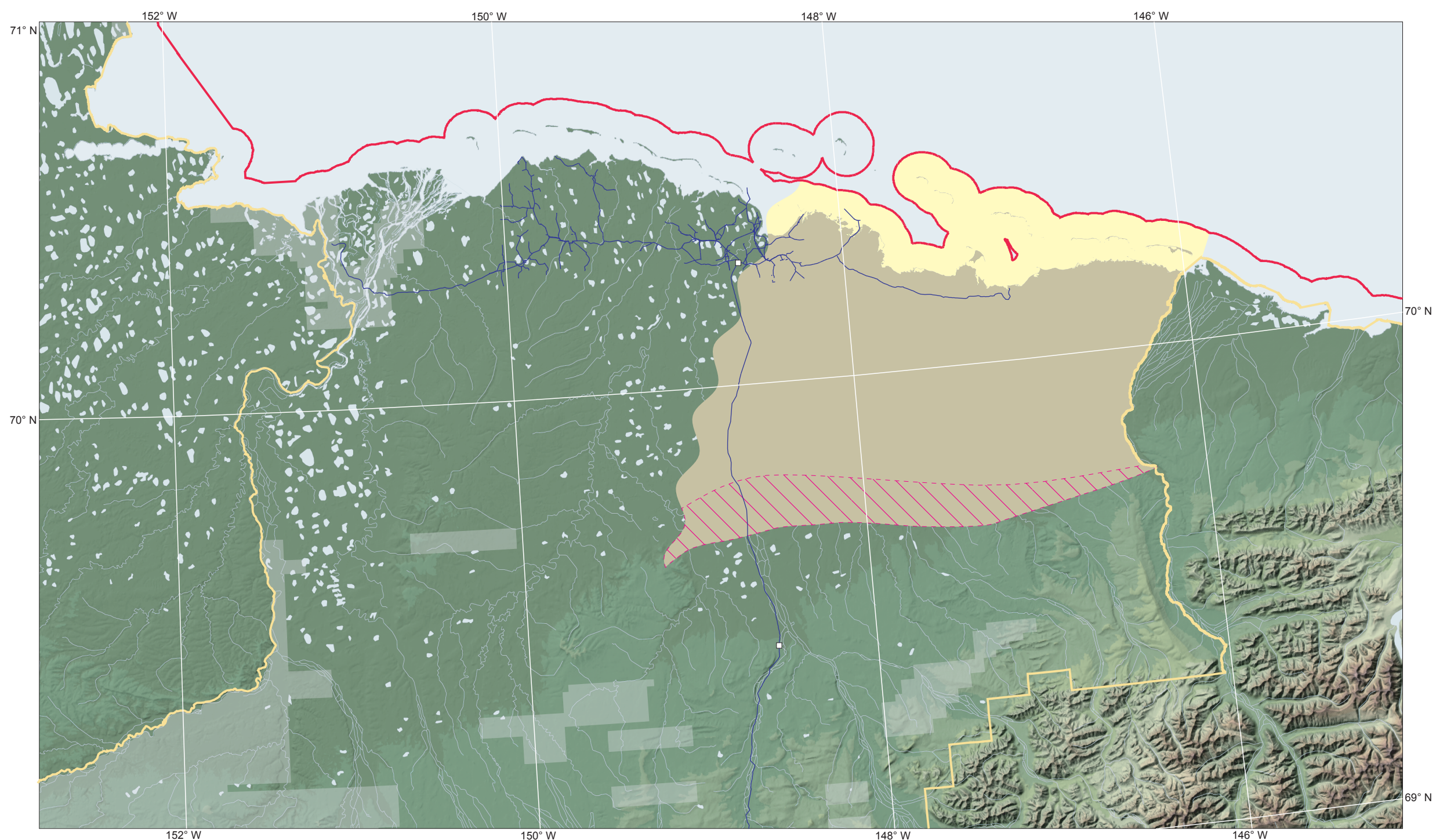
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 2004

OIL PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
3,969,621	683,587	144,364	0	4,797,572
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
83%	14%	3%	0%	

GAS PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
4,050,560	0	1,972,541	0	6,023,101
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
67%	0%	33%	0%	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

OIL	GAS
State Onshore	State Onshore
State Offshore	State Offshore
Native	Native
Federal	Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE 1:1 000 000

25 0 25
MILES

MAP LOCATION

ALASKA

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

APPROXIMATE MEAN DECLINATION, 2004

TRUE NORTH
MAGNETIC NORTH
24 1/2°

OIL PLAY ACREAGES AND PERCENTAGES

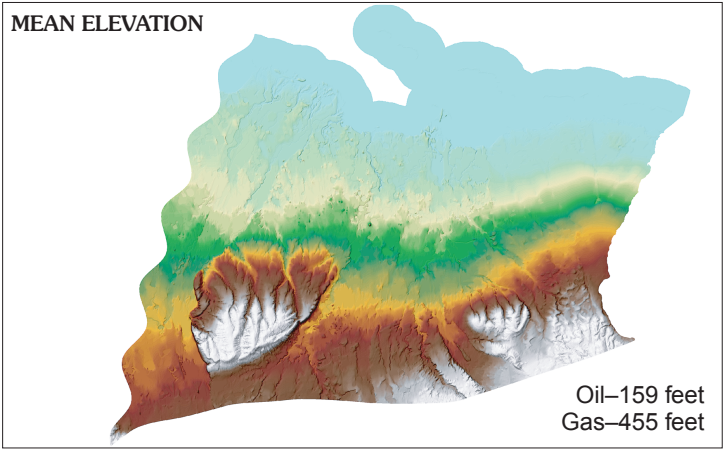
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,239,644	326,833	0	0	1,566,477

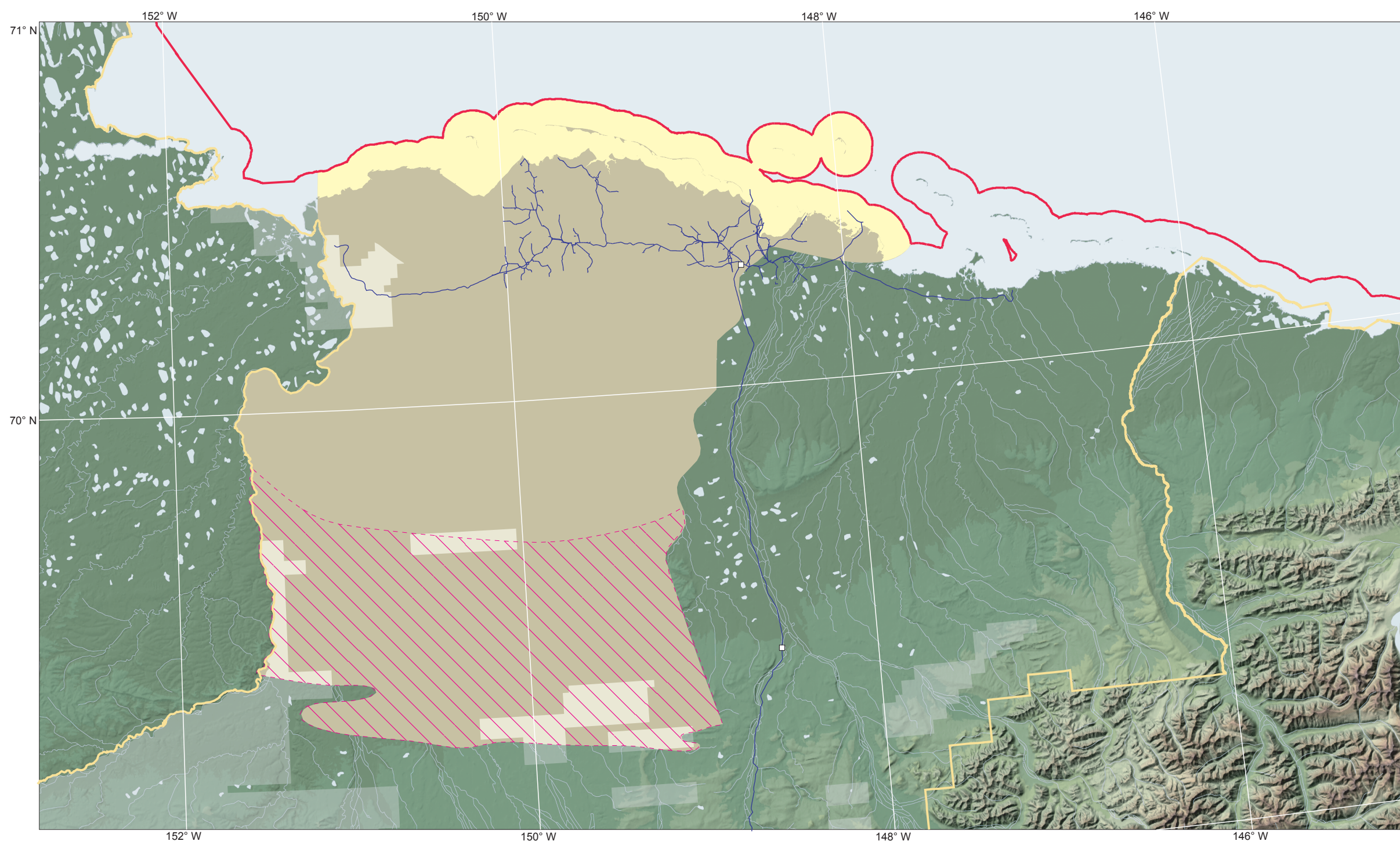
Percentages			
State Onshore	State Offshore	Native Lands	Federal
79%	21%	0%	0%

GAS PLAY ACREAGES AND PERCENTAGES

Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
237,039	0	0	0	237,039

Percentages			
State Onshore	State Offshore	Native Lands	Federal
100%	0%	0%	0%





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

OIL

State Onshore

State Offshore

Native

Federal

GAS

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25

0

25

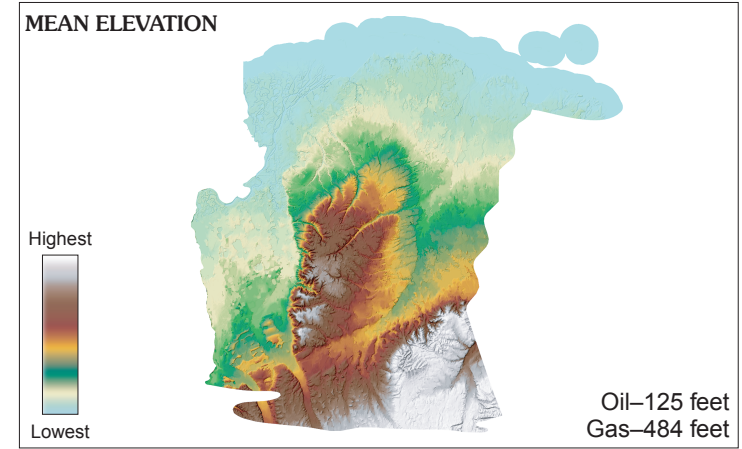
MILES**MAP LOCATION**

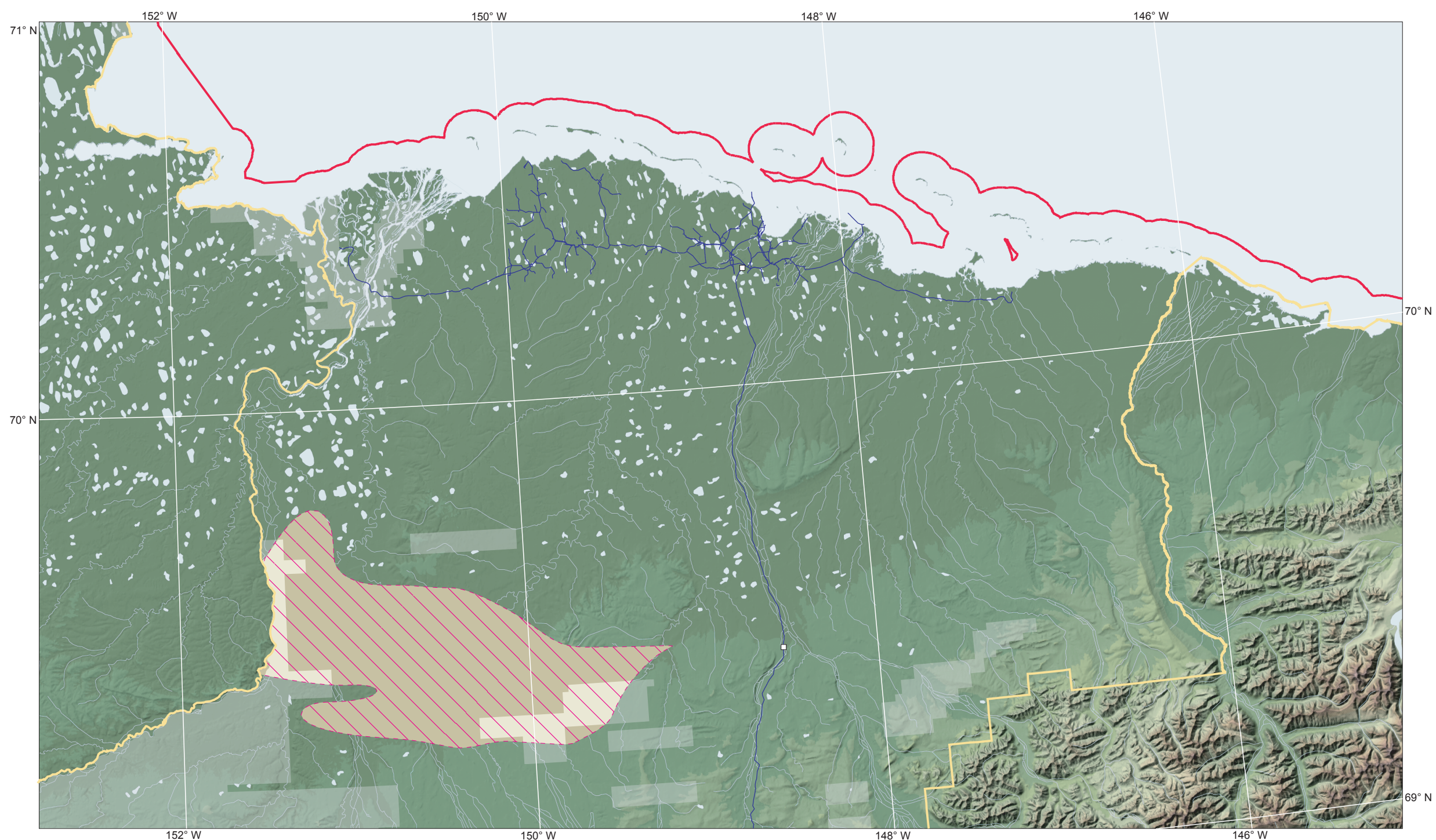
Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

APPROXIMATE MEAN DECLINATION, 2004

OIL PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,911,550	421,260	63,616	0	2,396,426
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
80%	18%	2%	0%	

GAS PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
974,486	0	152,423	0	1,126,910
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
86%	0%	14%	0%	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

OIL

State Onshore

State Offshore

Native

Federal

GAS

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25

0

25

MILES

MAP LOCATION

Albers Equal Area Conic Projection

Central Meridian : -154 00 0.00

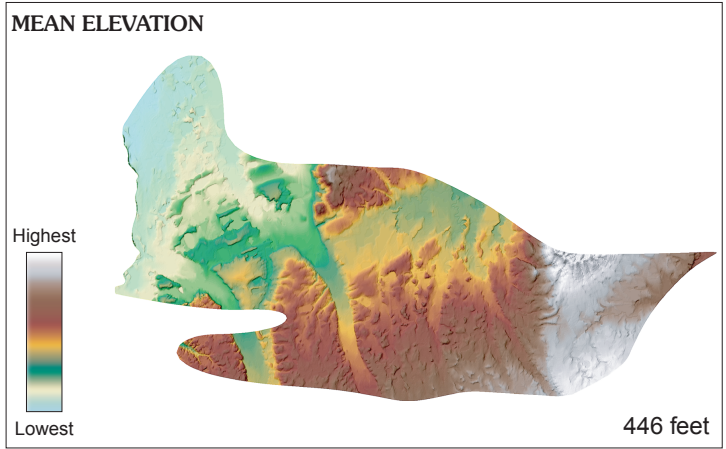
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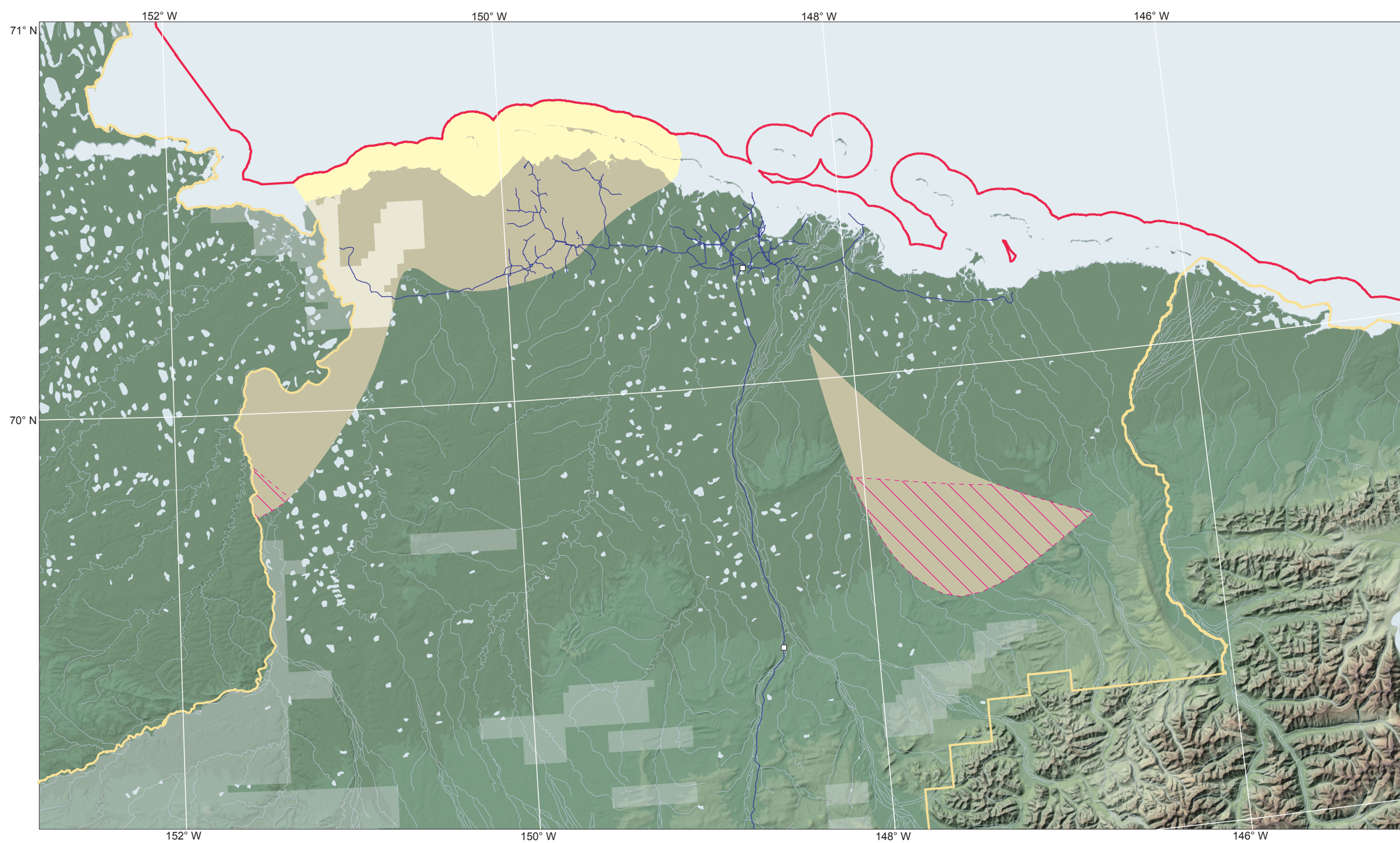
Standard Parallel 2 : 65 00 0.00

1927 North American Datum

APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
538,694	0	94,441	0	633,135
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
85 %	0 %	15 %	0 %	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

OIL

State Onshore

State Offshore

Native

Federal

GAS

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25

0

25

MILES

MAP LOCATION

Albers Equal Area Conic Projection

Central Meridian : -154 00 0.00

Standard Parallel 1 : 55 00 0.00

Standard Parallel 2 : 65 00 0.00

1927 North American Datum

24 1/2°

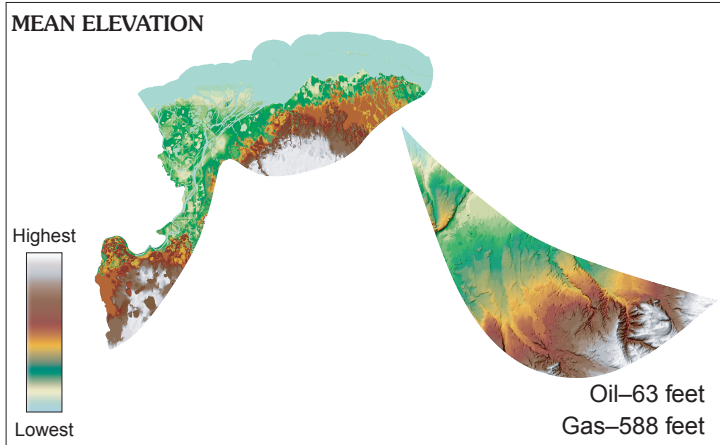
TRUE NORTH

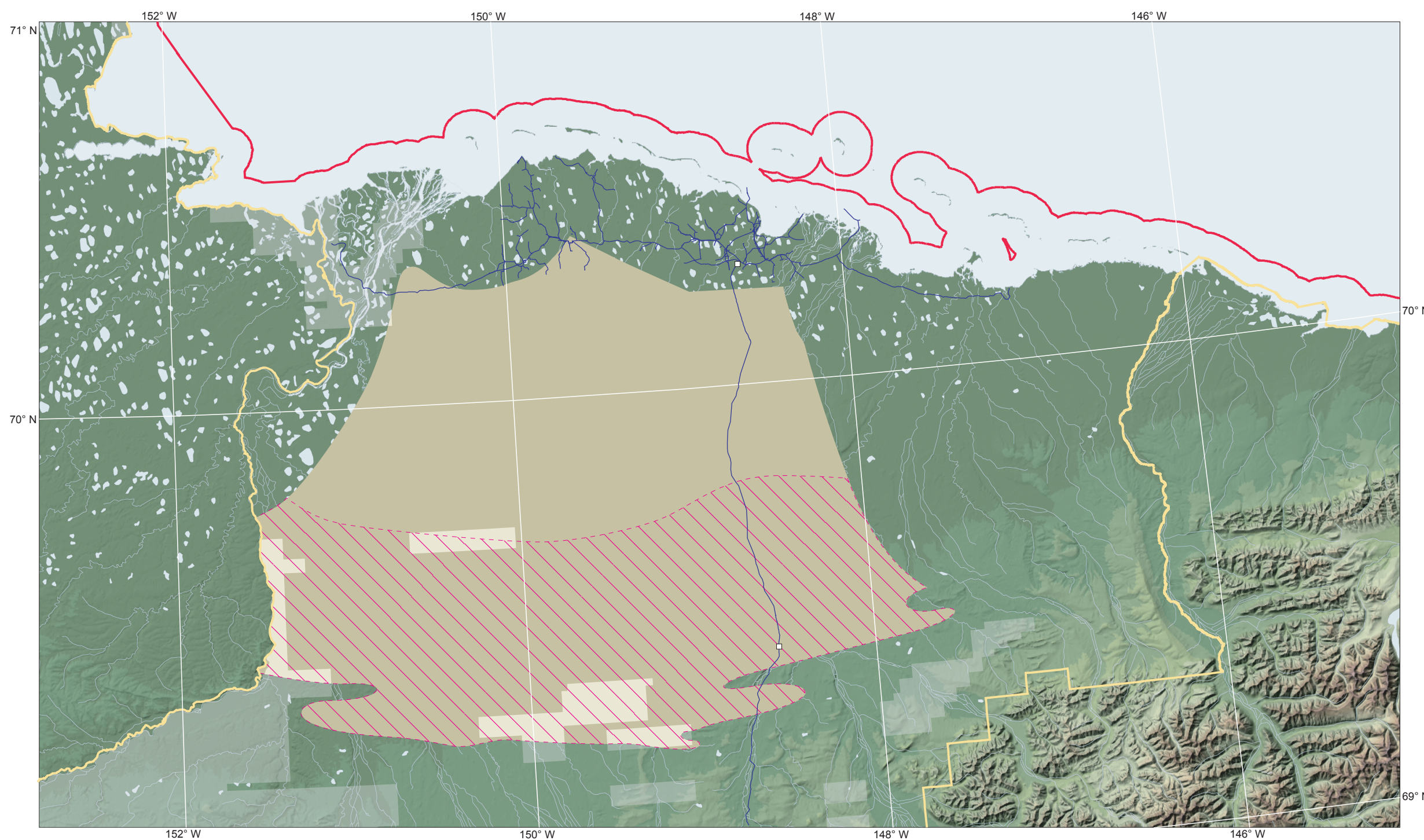
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 2004

OIL PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
604,018	224,531	94,079	0	922,628
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
66%	24%	10%	0%	

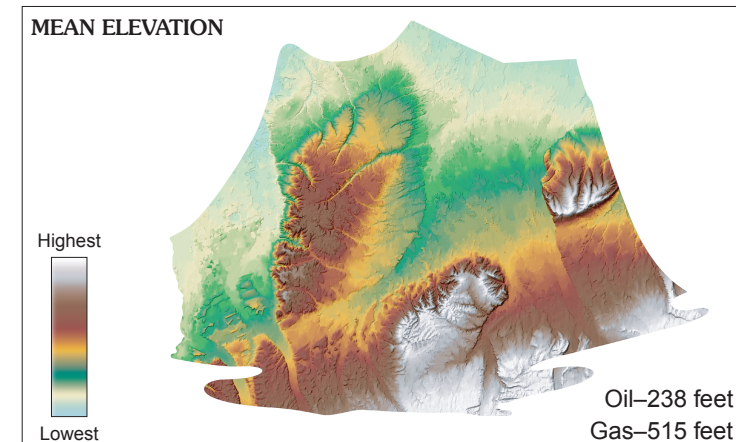
GAS PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
235,533	0	0	0	235,533
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
100%	0%	0%	0%	

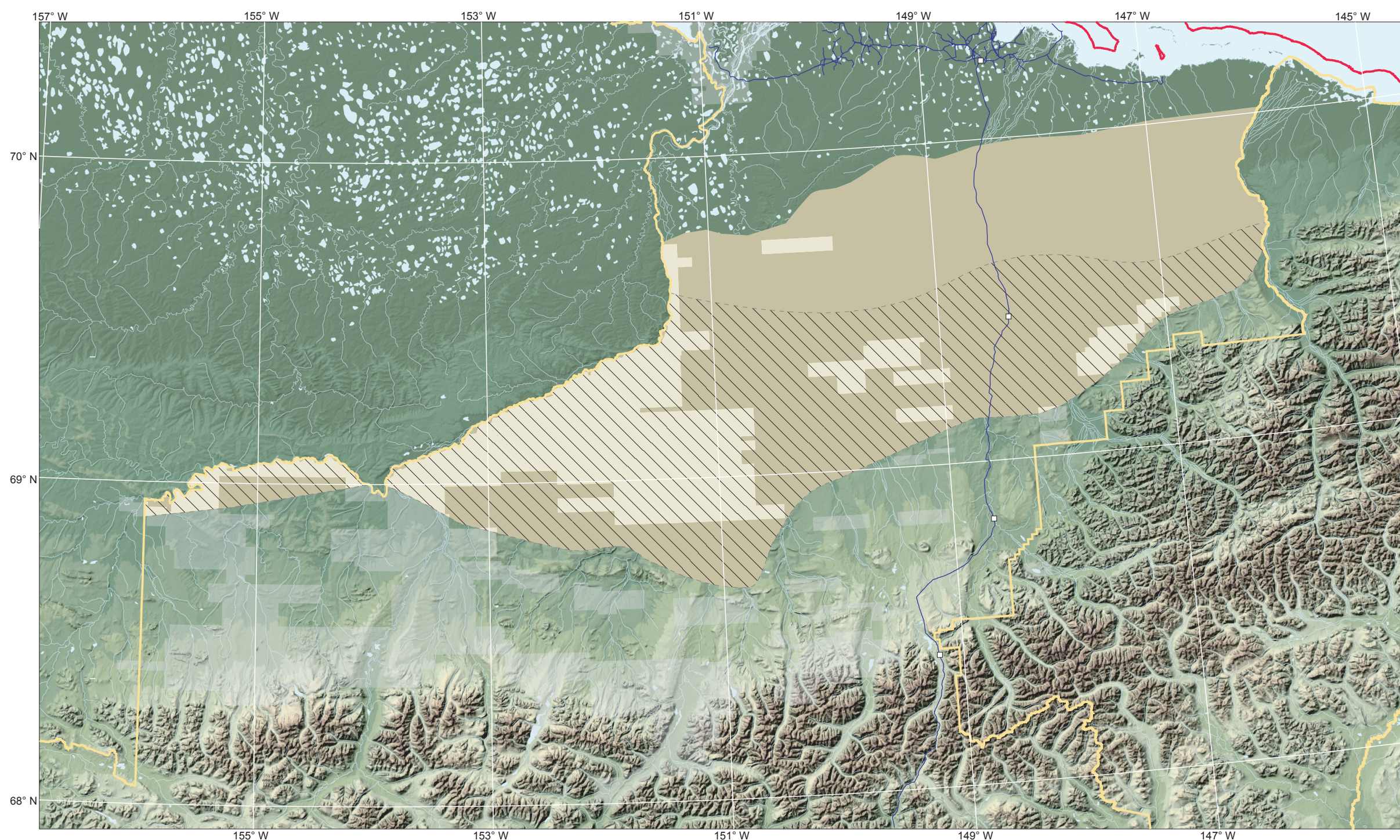




OIL PLAY ACREAGES AND PERCENTAGES

GAS PLAY ACREAGES AND PERCENTAGES





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

NORTH

SOUTH

State Onshore

State Onshore

State Offshore

State Offshore

Native

Native

Federal

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25 0 25 50

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection

Central Meridian : -154 00 0.00

Standard Parallel 1 : 55 00 0.00

Standard Parallel 2 : 65 00 0.00

1927 North American Datum

24.1°

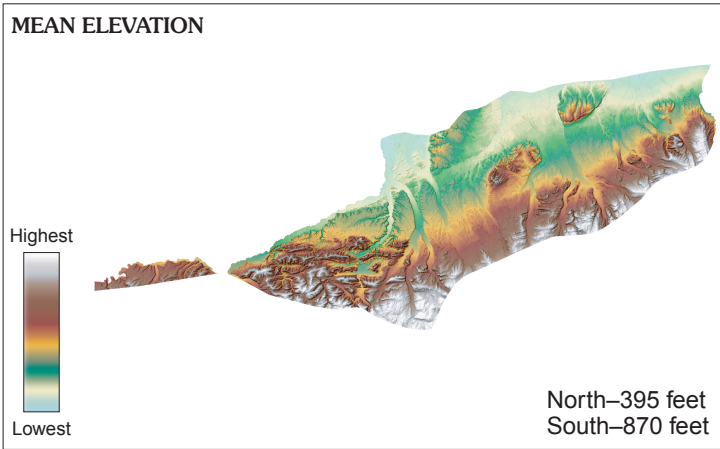
TRUE NORTH

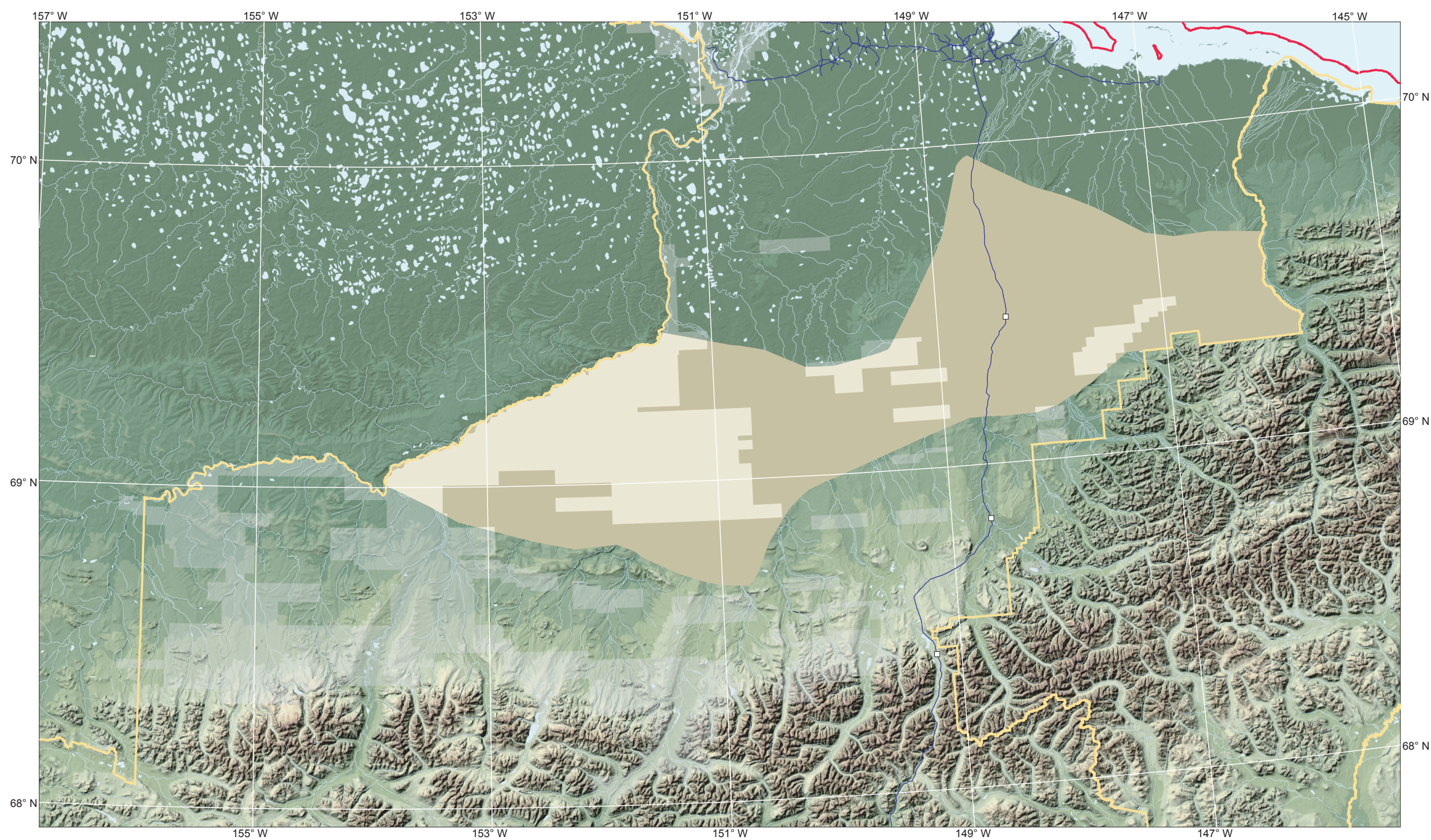
MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 2004

NORTHERN ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,910,287	0	48,501	0	1,958,788
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
98%	0%	2%	0%	

SOUTHERN ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
2,523,219	0	1,384,925	0	3,908,144
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
65%	0%	35%	0%	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25050

MILES

MAP LOCATION

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

24 1/2°

TRUE NORTH

MAGNETIC NORTH

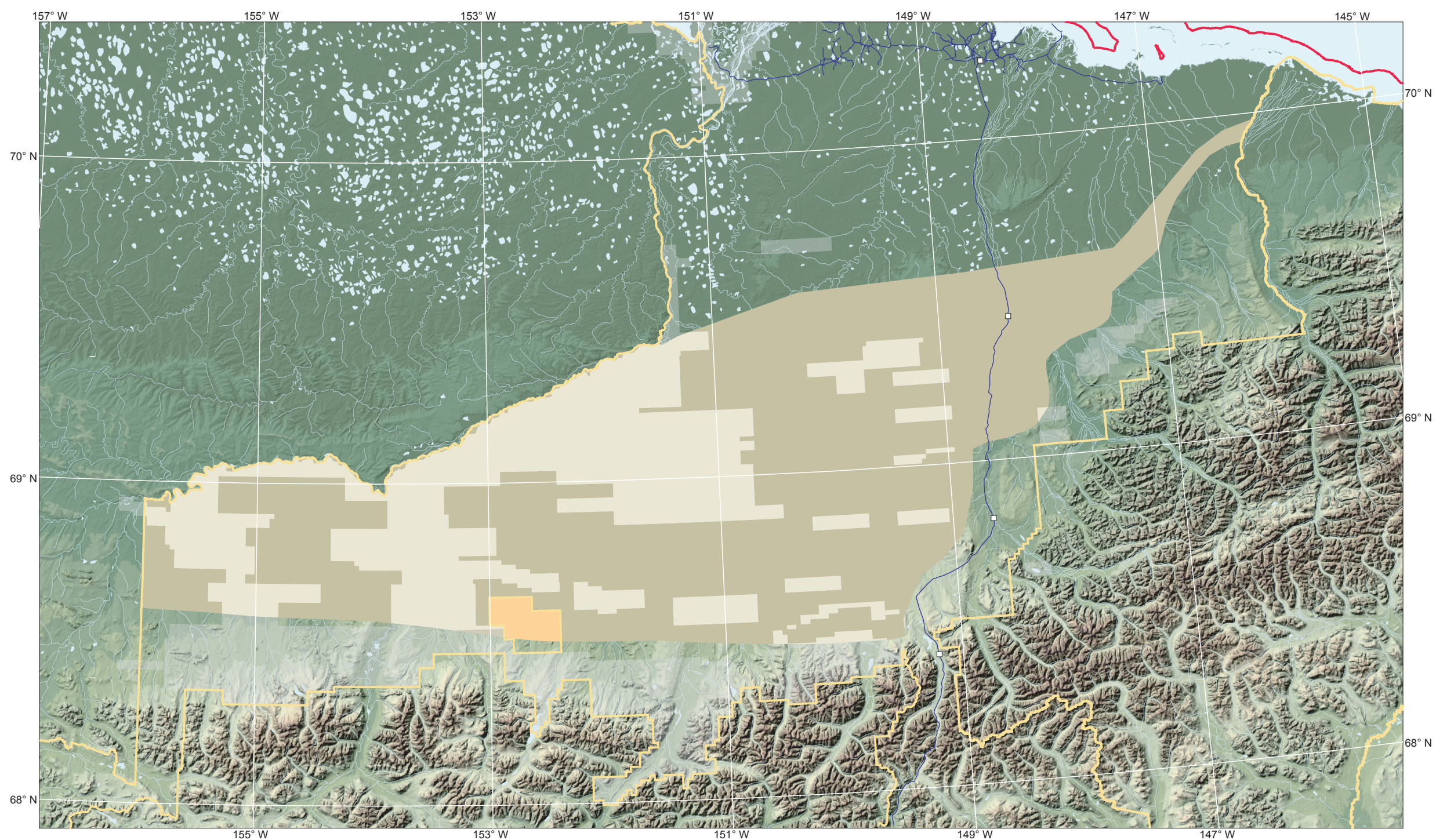
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
2,802,662	0	1,251,674	0	4,054,335
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
69 %	0 %	31 %	0 %	

MEAN ELEVATION



894 feet



EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

2502550

MILES

MAP LOCATION

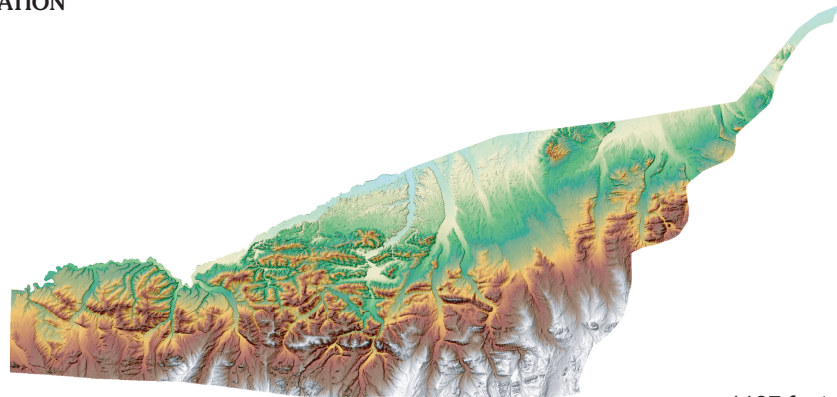
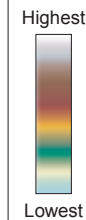
Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

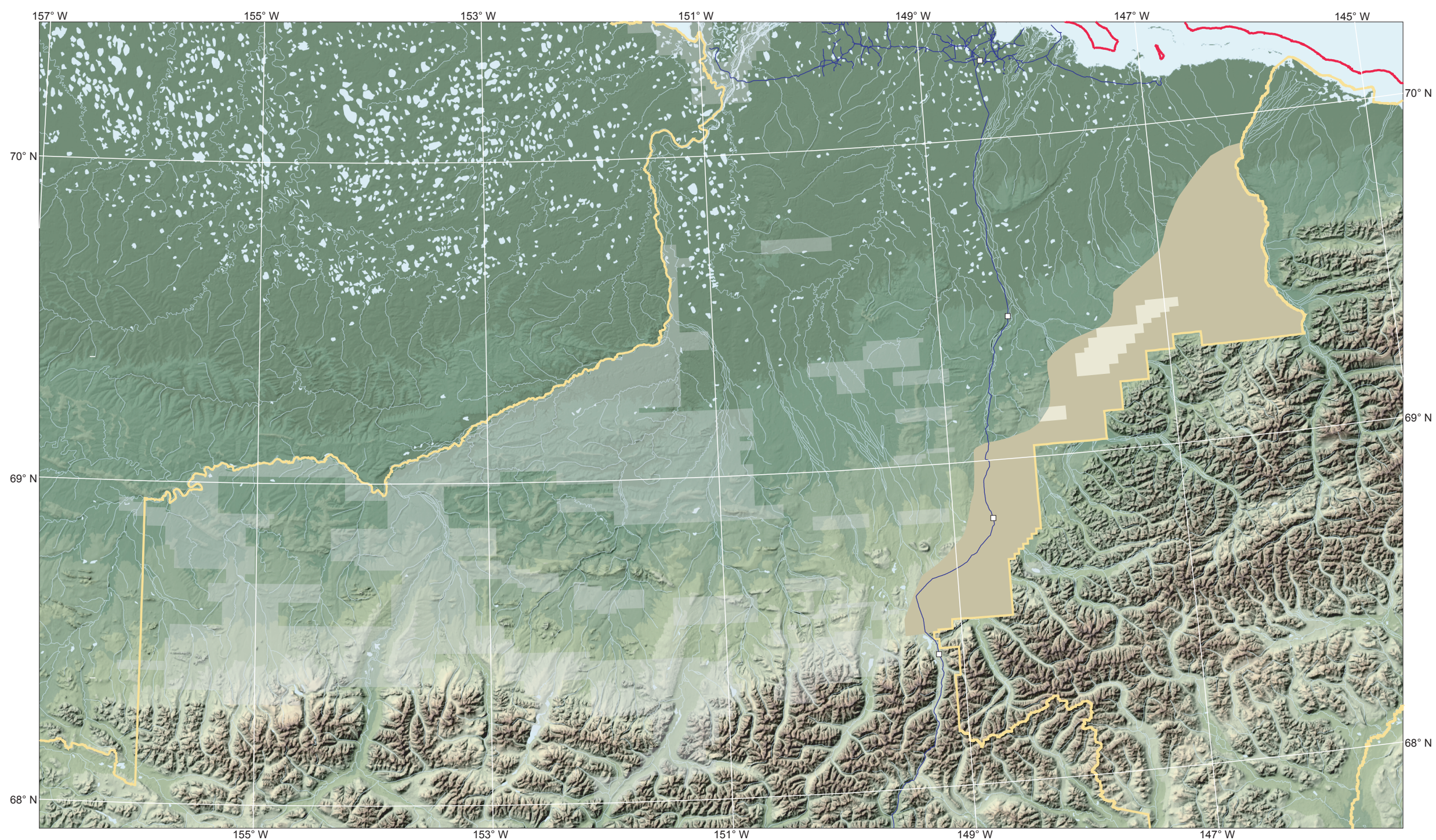
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES

		Acreages		
State Onshore	State Offshore	Native Lands	Federal	Total
4,158,205	0	2,209,171	70,659	6,438,036
		Percentages		
State Onshore	State Offshore	Native Lands	Federal	
65%	0%	34%	1%	

MEAN ELEVATION





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE 1:1 500 000

25000000

0

25000000

50000000

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

APPROXIMATE MEAN DECLINATION, 2004

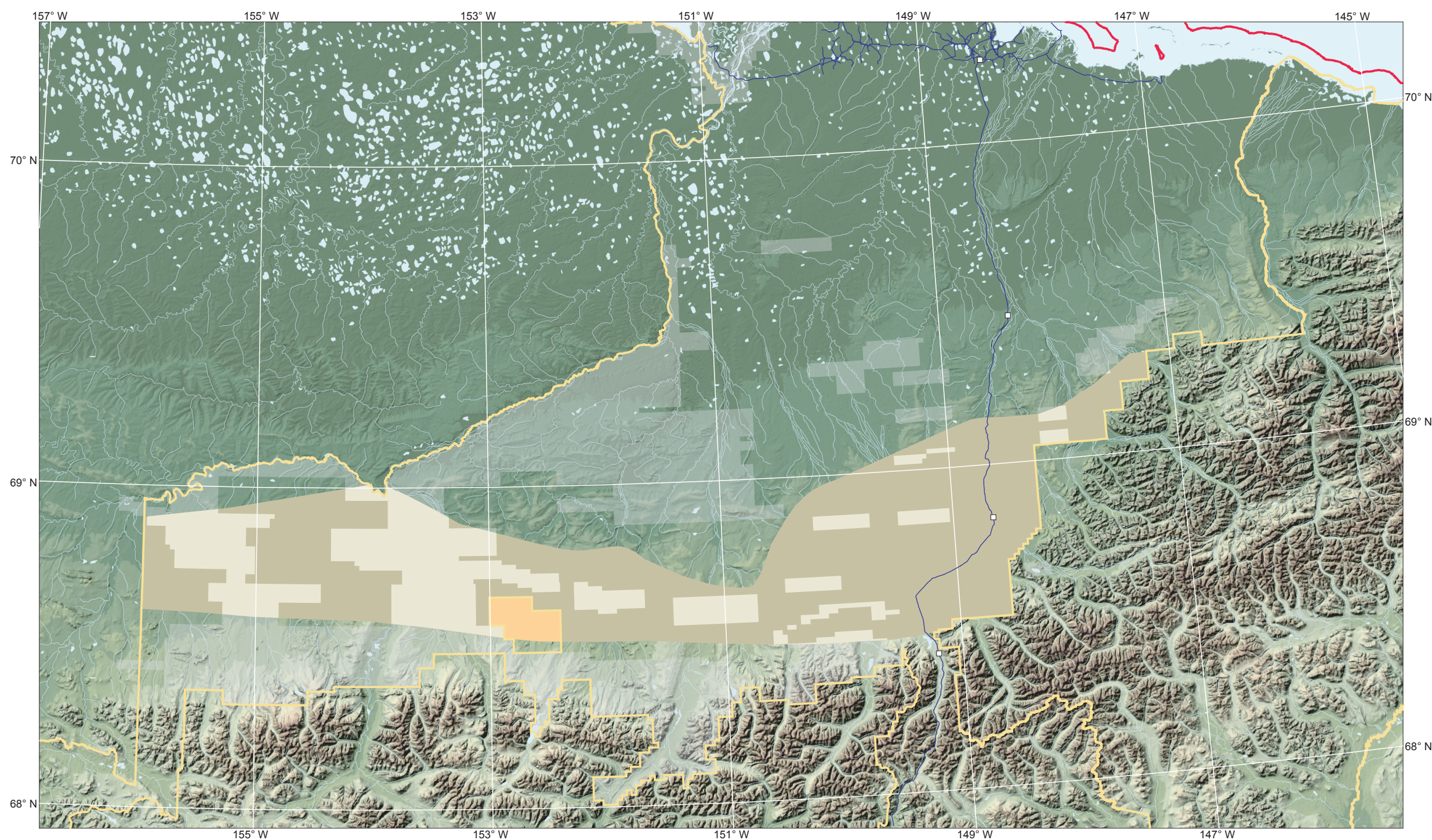
TABLE OF PLAY ACREAGES AND PERCENTAGES

Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,186,599	0	98,261	0	1,284,860

Percentages			
State Onshore	State Offshore	Native Lands	Federal
92%	0%	8 %	0 %

MEAN ELEVATION





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25000

0

25000

50000

MILES

MAP LOCATION

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

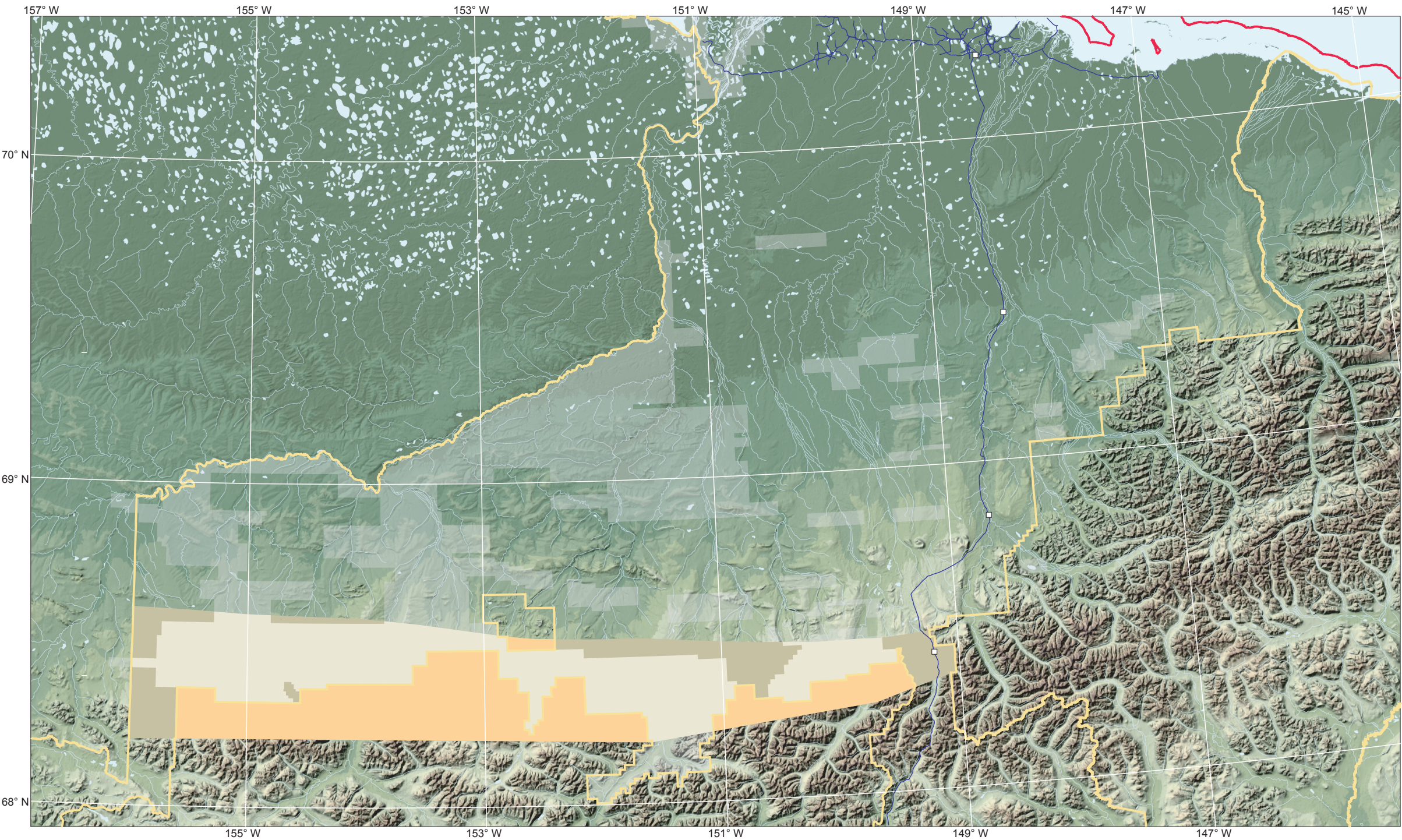
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES

		Acreages		
State Onshore	State Offshore	Native Lands	Federal	Total
2,282,144	0	937,339	71,377	3,290,860
		Percentages		
State Onshore	State Offshore	Native Lands	Federal	
70%	0%	28%	2%	

MEAN ELEVATION





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25 50
MILES

MAP LOCATION

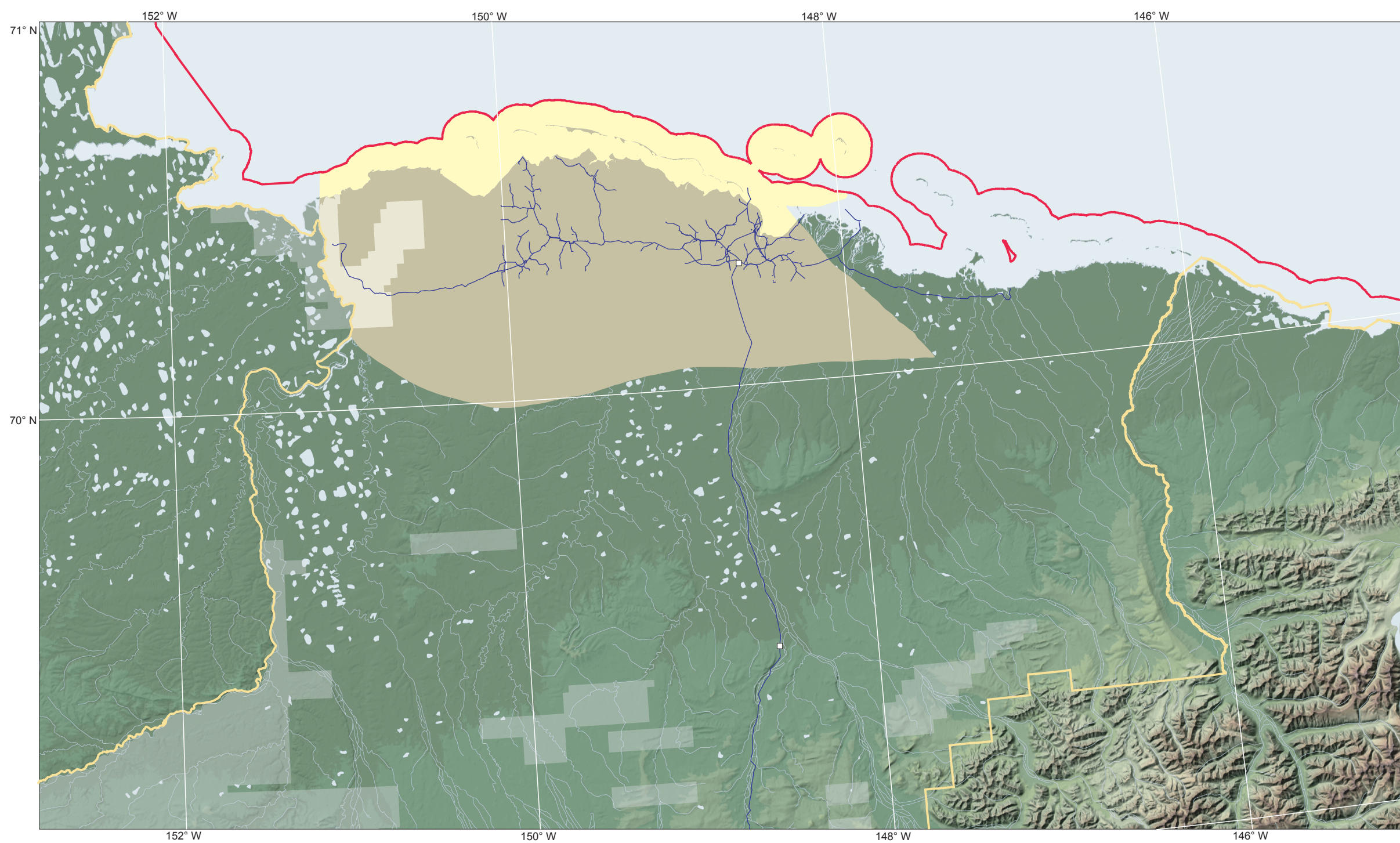
ALASKA

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

24 1/2°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
395,877	0	1,092,698	883,997	2,372,572
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
17%	0%	46%	37%	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25
MILES

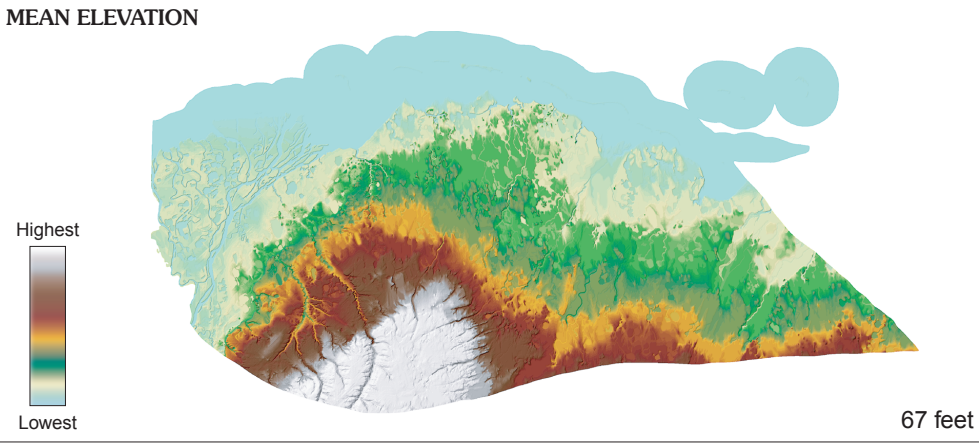
MAP LOCATION

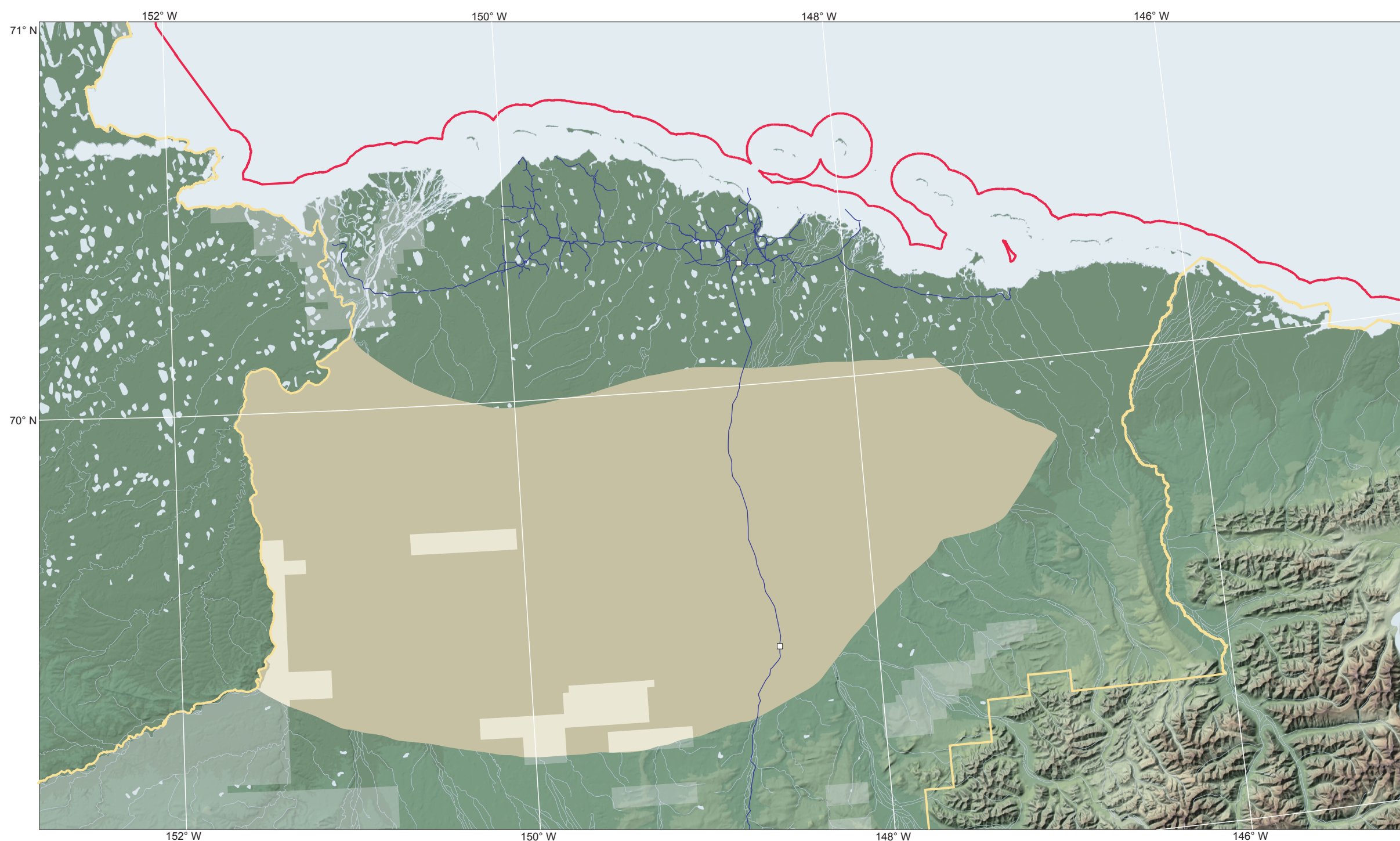
ALASKA

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

24 1/2°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,231,911	371,141	93,187	0	1,696,240
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
73 %	22 %	5 %	0 %	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25025

MILES

MAP LOCATION

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

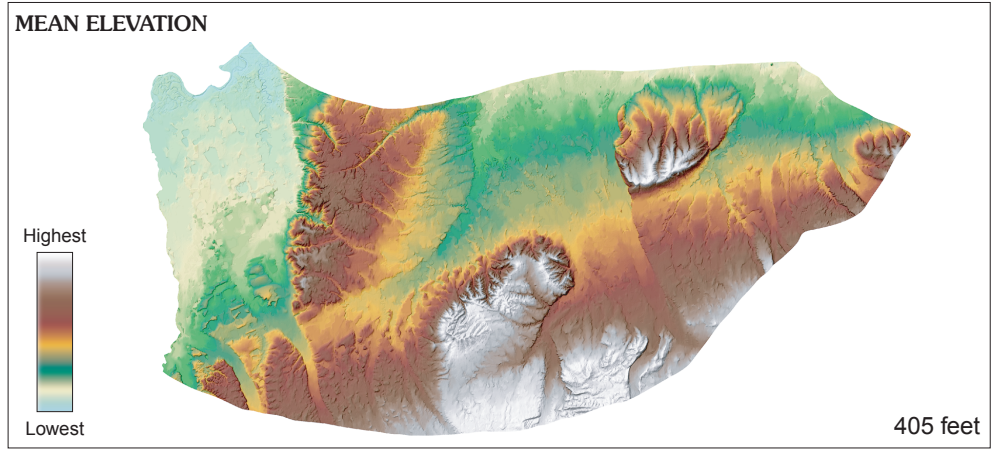
24 1/2°

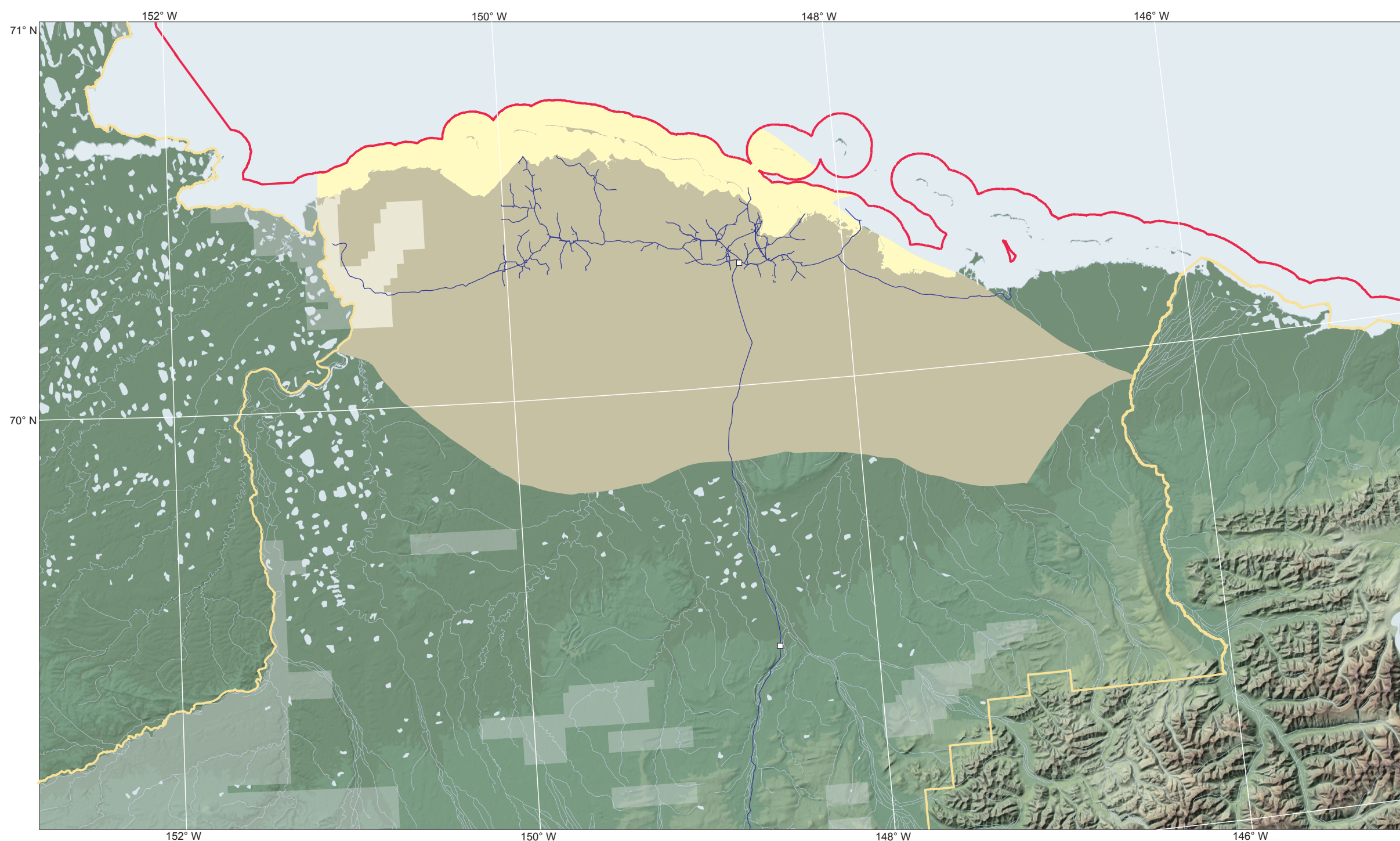
TRUE NORTH

MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
2,911,831	0	184,515	0	3,096,346
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
94 %	0 %	6 %	0 %	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25
MILES

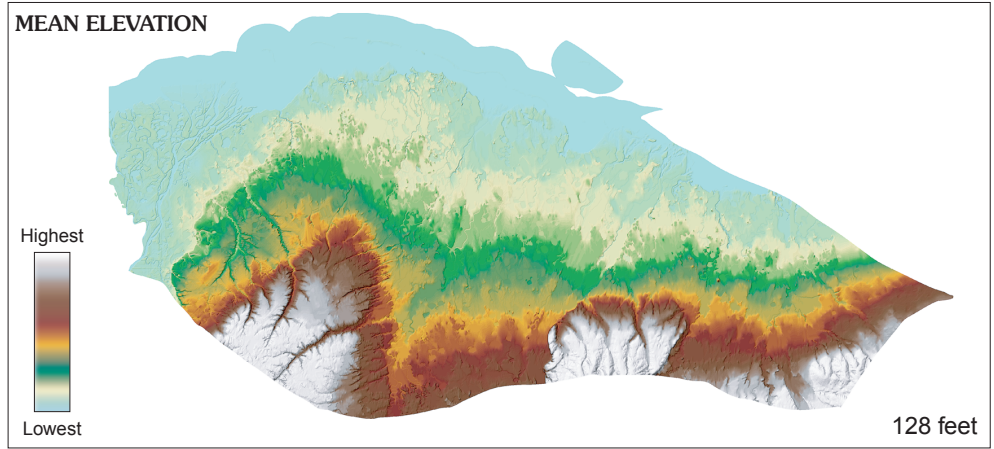
MAP LOCATION

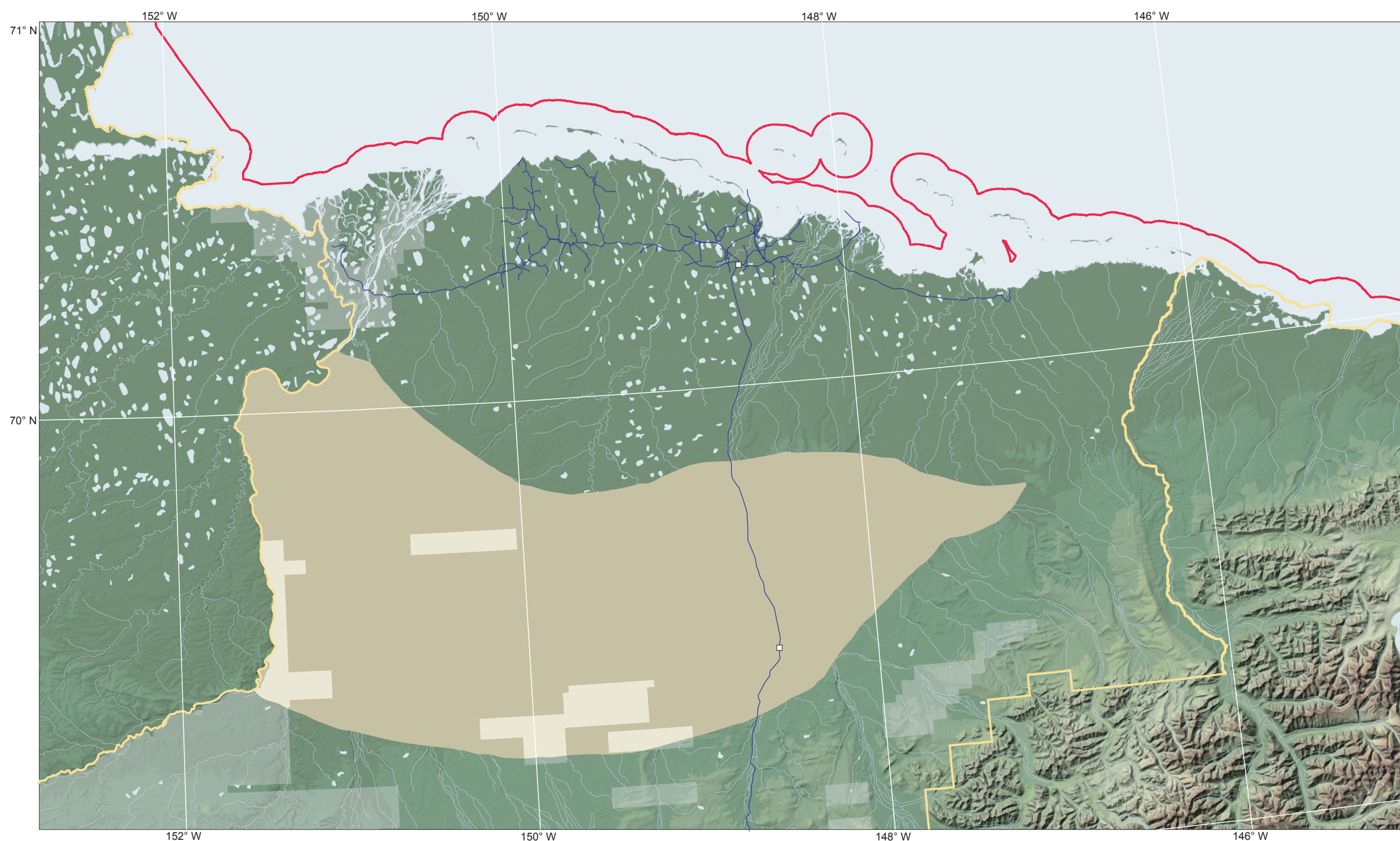
ALASKA

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

24 1/2°
TRUE NORTH
MAGNETIC NORTH
APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
1,875,953	352,734	93,293	0	2,321,980
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
81 %	15 %	4 %	0 %	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25
MILES

MAP LOCATION

ALASKA

Albers Equal Area Conic Projection
 Central Meridian : -154 00 0.00
 Standard Parallel 1 : 55 00 0.00
 Standard Parallel 2 : 65 00 0.00
 1927 North American Datum

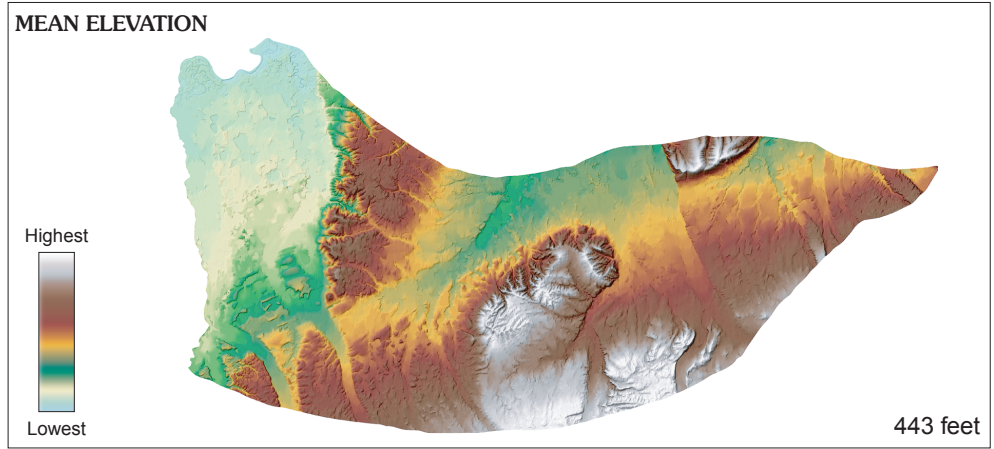
APPROXIMATE MEAN DECLINATION, 2004

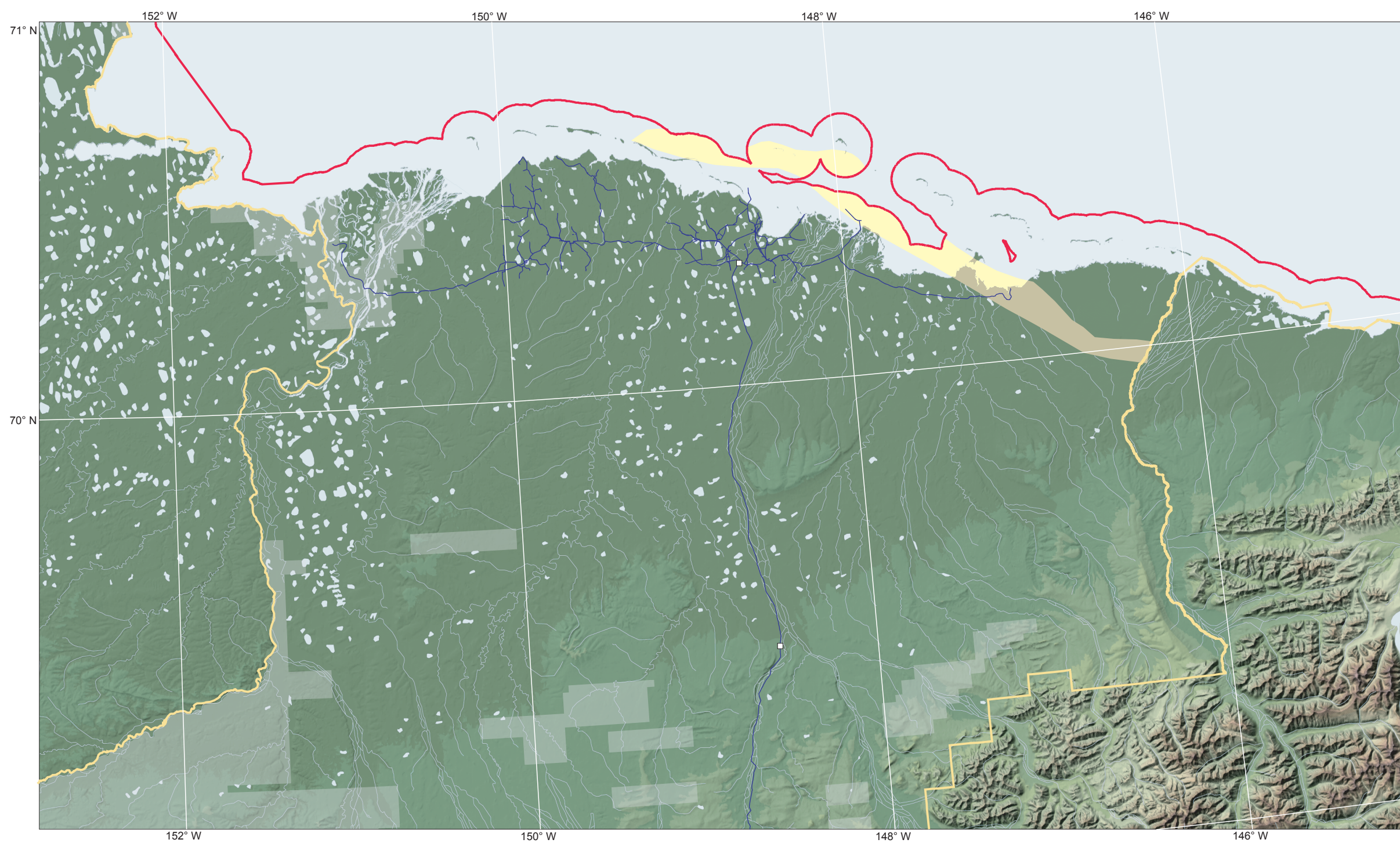
TRUE NORTH
 MAGNETIC NORTH
 24 1/2°

TABLE OF PLAY ACREAGES AND PERCENTAGES

		Acreages		
State Onshore	State Offshore	Native Lands	Federal	Total
2,209,080	0	186,445	0	2,395,525

Percentages			
State Onshore	State Offshore	Native Lands	Federal
92 %	0 %	8 %	0 %





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25
MILES

MAP LOCATION

ALASKA

Albers Equal Area Conic Projection
Central Meridian : -154 00 0.00
Standard Parallel 1 : 55 00 0.00
Standard Parallel 2 : 65 00 0.00
1927 North American Datum

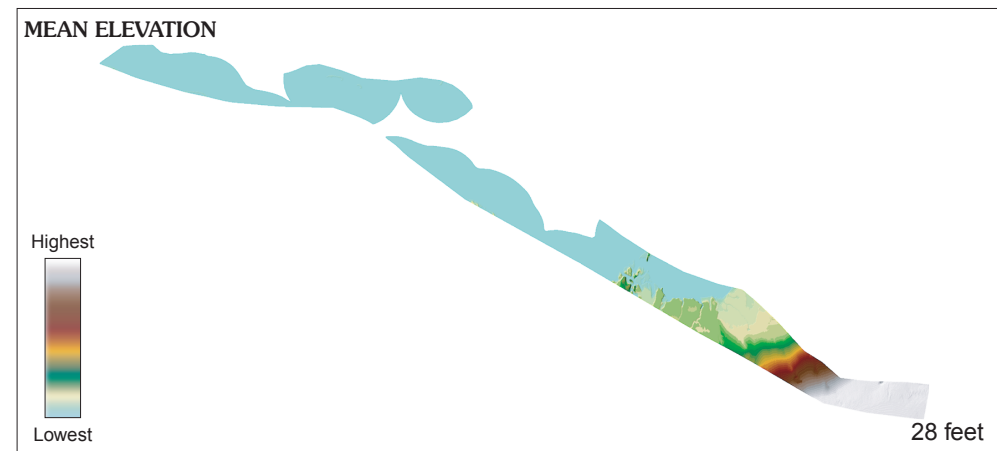
APPROXIMATE MEAN DECLINATION, 2004

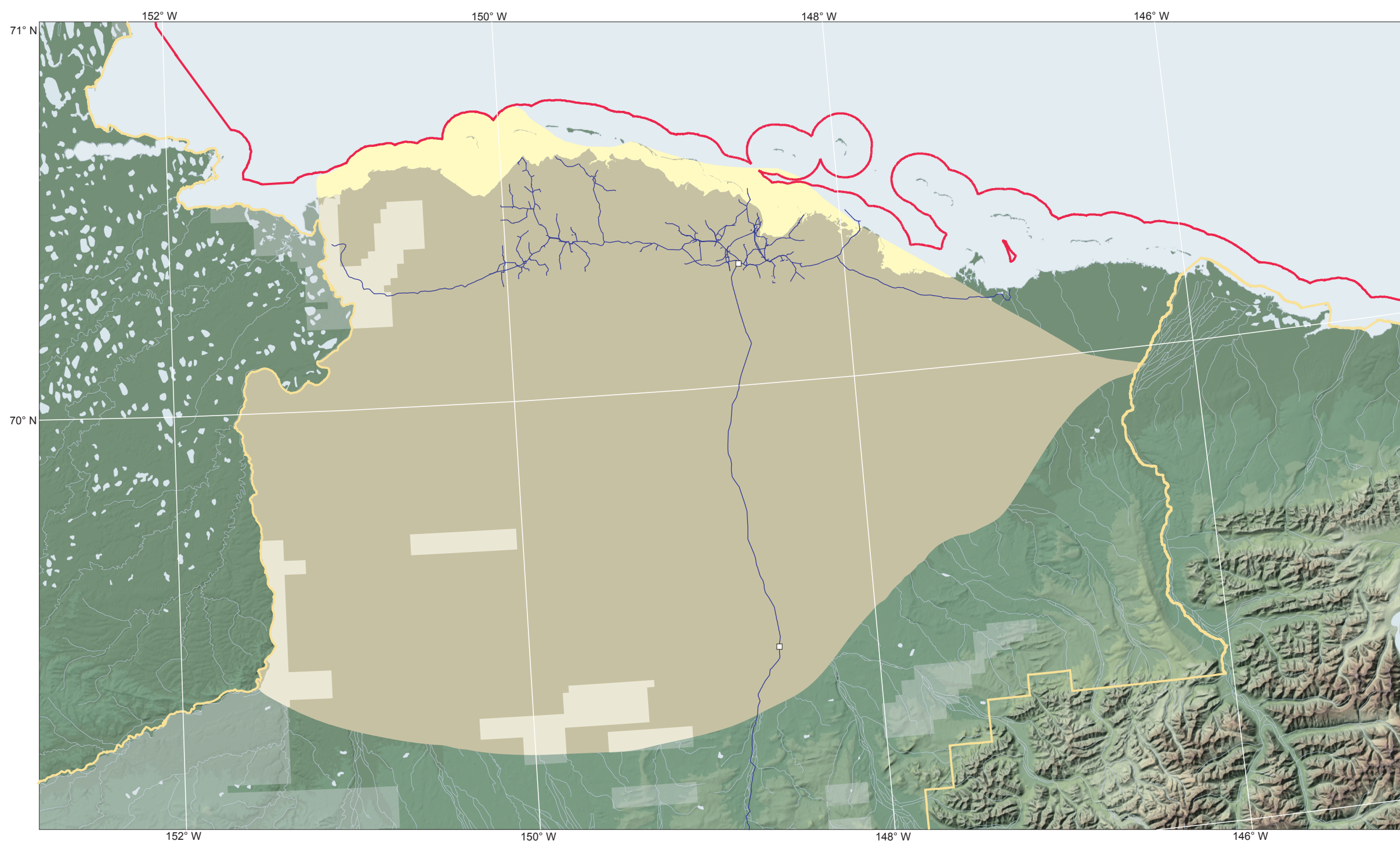
24 1/2°
TRUE NORTH
MAGNETIC NORTH

TABLE OF PLAY ACREAGES AND PERCENTAGES

Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
60,438	112,287	0	0	172,725

Percentages			
State Onshore	State Offshore	Native Lands	Federal
35 %	65 %	0 %	0 %





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

- State Onshore
- State Offshore
- Native
- Federal

OTHER BOUNDARIES

- Federal Boundaries
- Federal/State Water Boundary
- Native Lands

SCALE

25 0 25

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection
 Central Meridian : -154 00 0.00
 Standard Parallel 1 : 55 00 0.00
 Standard Parallel 2 : 65 00 0.00
 1927 North American Datum

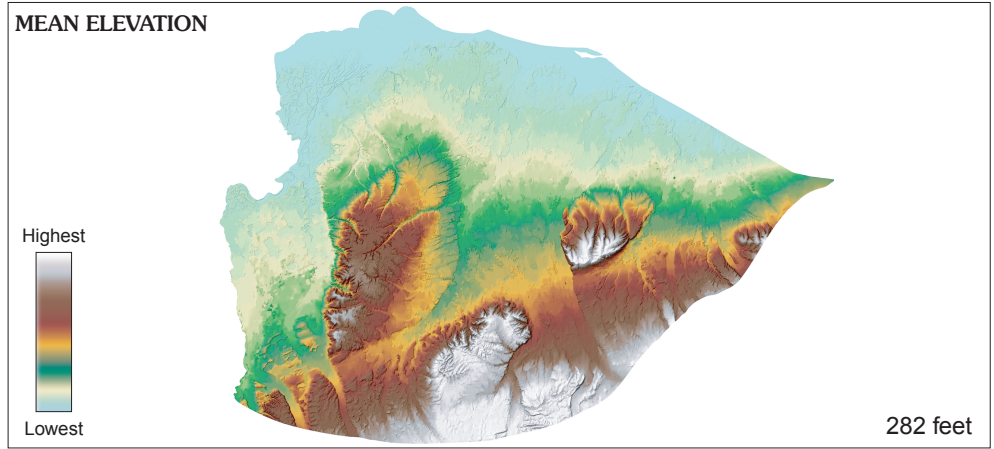
TRUE NORTH

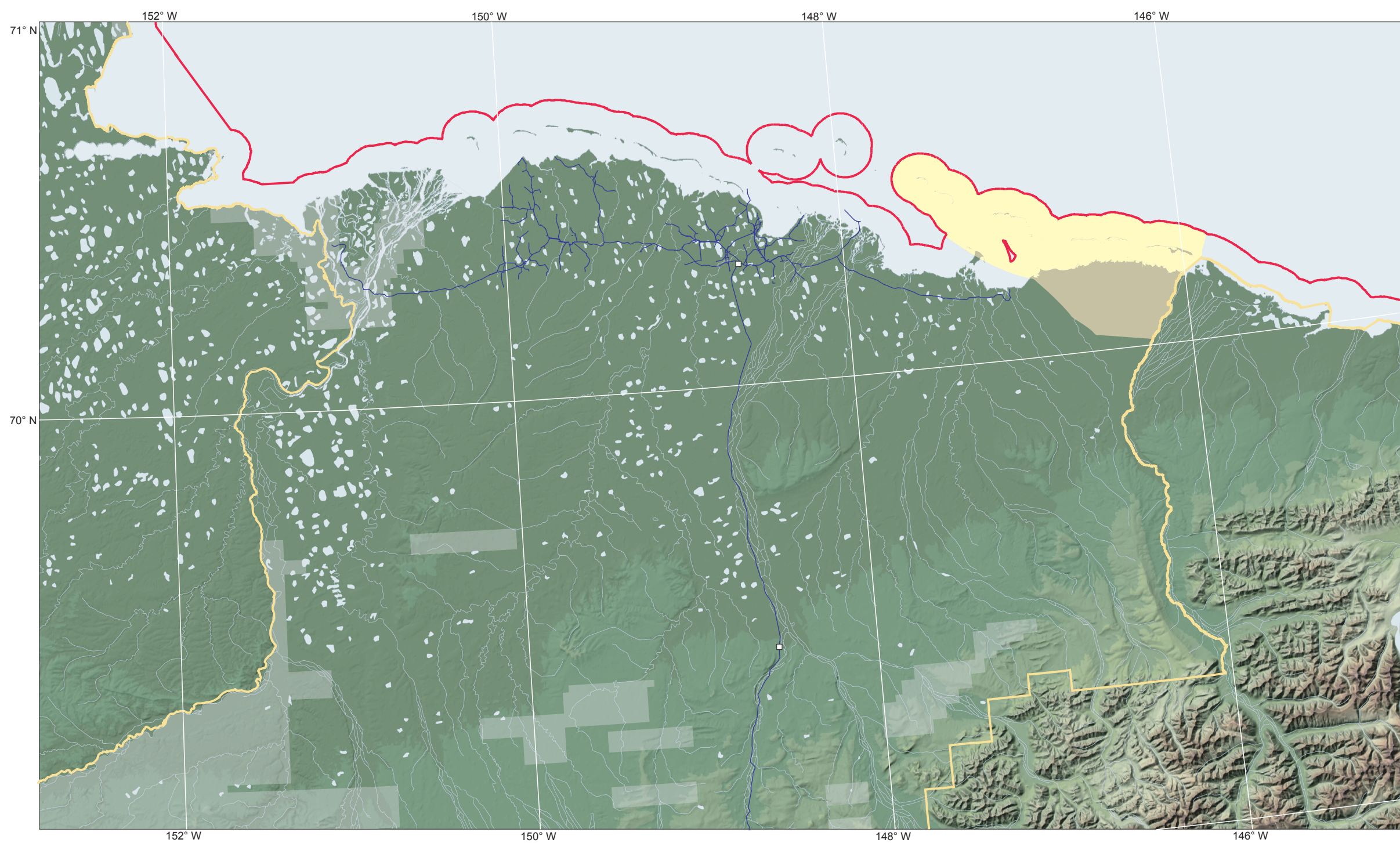
MAGNETIC NORTH

24 1/2°

APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
4,413,422	245,077	275,565	0	4,934,064
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
89 %	5 %	6 %	0 %	





EXPLANATION OF MAP SYMBOLS

PLAY BOUNDARIES

State Onshore

State Offshore

Native

Federal

OTHER BOUNDARIES

Federal Boundaries

Federal/State Water Boundary

Native Lands

SCALE

25025

MILES

ALASKA

MAP LOCATION

Albers Equal Area Conic Projection

Central Meridian : -154 00 0.00

Standard Parallel 1 : 55 00 0.00

Standard Parallel 2 : 65 00 0.00

1927 North American Datum

24½°

TRUE NORTH

MAGNETIC NORTH

APPROXIMATE MEAN DECLINATION, 2004

TABLE OF PLAY ACREAGES AND PERCENTAGES				
Acreages				
State Onshore	State Offshore	Native Lands	Federal	Total
103,371	227,305	0	0	330,677
Percentages				
State Onshore	State Offshore	Native Lands	Federal	
31 %	69 %	0 %	0 %	

