Supplementary Appendix 2. Assessment input data for the Northwest Greenland Rifted Margin Assessment Unit.

[MMBO, million barrels of oil; BCFG, billion cubic feet of gas; MMBNGL, million barrels of natural-gas liquids; MMBOE, million barrels of oil equivalent; NGL, natural gas liquids; CFG/BO, cubic feet of gas per barrel of oil; BNGL/MMCFG, barrels of natural gas liquids per million cubic feet of gas; BLIQ/MMCFG, barrels of liquids per million cubic feet of gas; AU, assessment unit; TPS, total petroleum system. F75 denotes a 75-percent chance; F25 denotes a 25-percent chance.]

CIRCUM-ARCTIC RESOURCE ASSESSMENT GEOLOGIC DATA FORM FOR CONVENTIONAL ASSESSMENT UNITS (Version 5.1, June 4, 2007)

IDENTIFICATION INFORMATION

Assessment Geologist:	C.J. Schenk	Date:	13-Dec-07
Region:	North America	Number:	5
Province:	West Greenland-East Canada	Number:	5208
Total Petroleum System:	Mesozoic-Cenozoic Composite	Number:	520801
Assessment Unit:	Northwest Greenland Rifted Margin	Number:	52080102
Scenario:		Number:	
Based on Data as of:			
Notes from Assessor:			

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit:		-	286,000 so	quare kilo	meters	
Minimum assessed accum	nulation size:	-	<u>50</u> M	MBOE (g	rown)	
No. of discovered accumu	lations exceeding mi	nimum size:	Oil:	0	Gas:	0
Uncertainty Class: Producing fields Discoveries Wells Seismic No seismic	Check One	Number 4				
Median size (grown) of dis		· · ·				
Madian aina (graym) of dia		st 3rd	2nd 3rd		3rd 3rd	
Median size (grown) of dis	•	· · ·	Oned Ord		Ord Ord	
	1	st 3rd	2nd 3rd		3rd 3rd	

ANALOGS USED IN ESTIMATING INPUT

Purpose	Analog or Analog Set	
1 Numbers of Accumulations	Rift-Sag	
2 Sizes of Accumulations	Rift-Sag	
3 Ancillary Data	World averages	
4		
Assessment Unit (name, no.) Scenario (name, no.)	Northwest Greenland Rifted Margin, 52080102	
Scenario Probability:	Probability o	f occurrence (0-1.0)
Assessment-Unit Probabilities:	(Adequacy for at least one undiscovered field of min	imum size)
<u>Attribute</u> 1. CHARGE: Adequate petroleum charge 2. ROCKS: Adequate reservoirs, traps, a 3. TIMING OF GEOLOGIC EVENTS: Fa	e: and seals:	f occurrence (0-1.0) 0.5 1.0 1.0
Assessment-Unit GEOLOGIC Probabil	ity (Product of 1, 2, and 3):	0.50

UNDISCOVERED ACCUMULATIONS

Number of Undiscovered Accumulations: How many undiscovered accumulations exist that are at least the minimum size?: (uncertainty of fixed but unknown values)

Total Accumulations:	minimum (>0)	1	median	60	maximum	250
Oil/Gas Mix:	minimum (>0) X no. of oil accu no. of oil accu no. of gas accu	umulations	s / no. of gas	accumu	lations	90
Oil Accumulations: Gas Accumulations:	minimum (>0) minimum (>0)	1 1	median median	30 27	maximum maximum	225 225

Sizes of Undiscovered Accumulations: What are the sizes (grown) of the above accumulations?: (variations in the sizes of undiscovered accumulations)

Oil in Oil Accumulations (MMBO):	minimum	50	median	110	maximum	10000
Gas in Gas Accumulations (BCFG):	minimum	300	median	660	maximum	60000

RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS

(variations in the properties of undiscovered accumulations)

<u>Oil Accumulations:</u> Gas/oil ratio (cfg/bo):	minimum 200	median 650	maximum 10000
NGL/gas ratio (bngl/mmcfg):	4	20	90
Gas Accumulations:	minimum	median	maximum
Liquids/gas ratio (bliq/mmcfg):	2	20	85

Assessment Unit (name, no.)	Northwest Greenland Rifted Margin, 52080102
Scenario (name, no.)	

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS

(variations in the properties of undiscovered accumulations)

<u>Oil Accumulations:</u> API gravity (degrees): Viscosity (centipoise) Sulfur content of oil (%): Depth (m) of water (if applicable):	minimum 23 120 0.24 0		median 40 280 0.7 400		maximum 55 8200 5 800
Drilling Depth (m):	minimum 500	F75	median 2000	F25	maximum 5000
<u>Gas Accumulations</u> : Inert gas content (%): Carbon dioxide content (%): Hydrogen sulfide content (%): Depth (m) of water (if applicable):	minimum 1.5 1.4 0.7 0		median <u>3.8</u> <u>5</u> <u>1.5</u> 400		maximum 17 28 6 800
Drilling Depth (m):	minimum 500	F75	median 2500	F25	maximum 9000
Assessment Unit (name, no.) <u>North</u>	hwest Greenland Ri	fted Marg	gin, 52080102	2	

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ARCTIC AREA

1 North of Arctic Circle

56.01 area % of the AU

Oil in Oil Accumulations:	56.01	volume % of the AU
Gas in Gas Accumulations:	56.01	volume % of the AU

2 South of Arctic Circle

43.93 area % of the AU

Oil in Oil Accumulations: Gas in Gas Accumulations: 43.93volume % of the AU43.93volume % of the AU

Assessment Unit (name, no.) Scenario (name, no.) Northwest Greenland Rifted Margin, 52080102

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

94.99 area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	94.99 volume % of the AU 94.99 volume % of the AU
Greenland	
5.01 area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	5.01 volume % of the AU 5.01 volume % of the AU
Canada	
0area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	0 volume % of the AU 0 volume % of the AU
area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
area % of the AU	
Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
Northwest Greenland	d Rifted Margin, 52080102
	Oil in Oil Accumulations: Gas in Gas Accumulations: Greenland

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

1	ONSHORE portion of:	West Greenland-East Canada	
		5.01 area % of the AU	
		Oil in Oil Accumulations:5.01 volume % of the AUGas in Gas Accumulations:5.01 volume % of the AU	
	OFFSHORE portion of:	West Greenland-East Canada	
		94.99area % of the AU	
		Oil in Oil Accumulations:94.99 volume % of the AUGas in Gas Accumulations:94.99 volume % of the AU	
2	ONSHORE portion of:		
-		area % of the AU	
		Oil in Oil Accumulations: volume % of the AU Gas in Gas Accumulations: volume % of the AU	
	OFFSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: volume % of the AU Gas in Gas Accumulations: volume % of the AU	
3	ONSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: volume % of the AU Gas in Gas Accumulations: volume % of the AU	
	OFFSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: volume % of the AU Gas in Gas Accumulations: volume % of the AU	
	sessment Unit (name, no.) enario (name, no.)	Northwest Greenland Rifted Margin, 52080102	

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

4	ONSHORE portion of:					
			area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
	OFFSHORE portion of:					
			area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
5	ONSHORE portion of:					
			area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
	OFFSHORE portion of:					
		;	area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
6	ONSHORE portion of:					
			area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
	OFFSHORE portion of:					
			area % of the AU			
			cumulations: Accumulations:		volume % of the AU volume % of the AU	
	essment Unit (name, no.) enario (name, no.)		Northwest Greenlar	d Rifted Marg	in, 52080102	

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ICE CONDITIONS

1	Province:	West Greenland-East Canada		
	Permanent sea ice		ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		olume % of the AU Jume % of the AU
	Semi-permanent se	a ice	<u> 100 </u> ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		olume % of the AU Jume % of the AU
2	Province:			
	Permanent sea ice		ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		olume % of the AU olume % of the AU
	Semi-permanent se	a ice	ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		olume % of the AU Jume % of the AU
3	Province:			
	Permanent sea ice		ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		lume % of the AU lume % of the AU
	Semi-permanent se	a ice	ar	ea % of the AU
		Oil in Oil Accumulations: Gas in Gas Accumulations:		lume % of the AU lume % of the AU