Supplementary Appendix 4. Assessment input data for the Baffin Bay Basin 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.]

Appendix 7. 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 Greenlan	d-East Canada			Number:	5208
Total Petroleum System:	Mesozoic-Cend	zoic Composite			Number:	520801
Assessment Unit:	Baffin Bay Bas				Number:	52080104
Scenario:					Number:	
Based on Data as of:					_	
Notes from Assessor:						
	CHARACTE	RISTICS OF ASSI	ESSMENT UN	IIT		
Area of assessment unit:			252,000 so	quare kil	ometers	
Minimum assessed accumu	llation size:		50N	IMBOE ((grown)	
No. of discovered accumula	ations exceeding m	inimum size:	Oil:	0	_ Gas	:0
Uncertainty Class:	Check One	Number				
Producing fields						
Discoveries			_			
Wells			_			
Seismic	X					
No seismic						
Median size (grown) of disc	overed oil accumu	lations (MMBO):				
		1st 3rd	2nd 3rd		3rd 3rd	d
Median size (grown) of disc	overed gas accum	ulations (BCFG):				
		1st 3rd	2nd 3rd		3rd 3rd	t

ANALOGS USED IN ESTIMATING INPUT

<u>Purpose</u>	Analog or Analog Set		
1 Number of Accumulations	Deltas		
2 Sizes of Accumulations	Deltas		
3 Ancillary Data	World averages		
4			
Assessment Unit (name, no.) Scenario (name, no.)	Baffin Bay Basin, 52080104		
Occurate Bushak Was	Probability of	f occurrence (0-1.0)	
Scenario Probability:			
Assessment-Unit Probabilities:	(Adequacy for at least one undiscovered field of min	imum size)	
Attribute	Probability of	f occurrence (0-1.0)	
CHARGE: Adequate petroleum char		0.4	
2. ROCKS: Adequate reservoirs, traps,		0.7	
3. TIMING OF GEOLOGIC EVENTS: F	avorable timing:	1.0	
Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3):			

UNDISCOVERED ACCUMULATIONS

Number of Undiscovered Accumulations: How many undiscovered accumulations exist that are at least the minimum size?: (uncertainty of fixed but unknown values) minimum (>0) 1 median Total Accumulations: maximum minimum (>0) 10 Oil/Gas Mix: 90 mode maximum no. of oil accumulations / no. of total accumulations no. of oil accumulations / no. of gas accumulations no. of gas accumulations / no. of oil accumulations minimum (>0) Oil Accumulations: median maximum minimum (>0) 1 Gas Accumulations: median 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 minimum ___ median ___ 720 maximum Gas in Gas Accumulations (BCFG): RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS (variations in the properties of undiscovered accumulations) Oil Accumulations: minimum median maximum Gas/oil ratio (CFG/BO): 500 1600 10000 NGL/gas ratio (BNGL/MMCFG): 4 22 15 Gas Accumulations: minimum median maximum Liquids/gas ratio (BLIQ/MMCFG): 3 20 80 Assessment Unit (name, no.) Baffin Bay Basin, 52080104 Scenario (name, no.)

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS

(variations in the properties of undiscovered accumulations)

Oil Accumulations: API gravity (degrees): Viscosity (centipoise) Sulfur content of oil (%): Depth (m) of water (if appli	icable):	minimum 23 120 0.24 700		median 40 280 0.7 1500		maximum 55 8200 5 2200	
Drilling Depth (m):		minimum 500	F75	median 2000	F25	maximum 5000	
Gas Accumulations: Inert gas content (%): Carbon dioxide content (% Hydrogen sulfide content (Depth (m) of water (if appli	(%):	minimum 1.5 1.4 0.7 700		median 3.8 5 1.5 1500		maximum 17 28 6 2200	
Drilling Depth (m):		minimum 500	F75	median 2500	F25	maximum 9000	
Assessment Unit (name, no.) Scenario (name, no.)							
ALLOCATION	S OF POTENTIAL AD	DITIONS TO	RESERV	ES TO ARC	ΓIC AREA		
1 North of Arctic Circle							
	100 area % of	the AU					
	Oil in Oil Accumulatio Gas in Gas Accumula	_		volume % of volume % of			
2 South of Arctic Circle							
	0 area % of	the AU					
	Oil in Oil Accumulatio Gas in Gas Accumula	_	0	volume % of volume % of			
Assessment Unit (name, no.) Scenario (name, no.)	Baffin Bay	Basin (52080)104)				

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1	Offshore portion of		
		area % of the AU	
		Oil in Oil Accumulations: 10 Gas in Gas Accumulations: 10	
2	Onshore portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
3	Offshore portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
4	Onshore portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
5	Onshore portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
6	Onshore portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	sessment Unit (name, no.) enario (name, no.)	Baffin Bay Basin, 52080104	

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

1 ONSHORE portion of:	West Greenland-East Canada	
	0 area % of the AU	
	Oil in Oil Accumulations:	0 volume % of the AU
	Gas in Gas Accumulations:	0 volume % of the AU
OFFSHORE portion of:	West Greenland-East Canada	_
	100 area % of the AU	
	Oil in Oil Accumulations:	100 volume % of the AU
	Gas in Gas Accumulations:	volume % of the AU
2 ONSHORE portion of:		_
	area % of the AU	
	Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
OFFSHORE portion of:		
	area % of the AU	
	Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
3 ONSHORE portion of:		
	area % of the AU	
	Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
OFFSHORE naming of		
OFFSHORE portion of:	area % of the AU	
		volume 0/ of the ALL
	Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
Assessment Unit (name, no.) Scenario (name, no.)	Baffin Bay Basin, 520	080104
Journalio (Hailie, Ho.)		

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

4	ONSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	OFFSHORE portion of:		
	·	area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
5	ONSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	OFFSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
6	ONSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	OFFSHORE portion of:		
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	sessment Unit (name, no.) enario (name, no.)	Baffin Bay Basin, 52	2080104

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ICE CONDITIONS

1	Province:	West Greenland-East Canada		
Permanent sea ice			0 area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	0 volume % of the volume % of the	
	Semi-permanent se	ea ice	100 area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	100 volume % of the volume % of the	
2	Province:			
	Permanent sea ice		area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the	
	Semi-permanent se	ea ice	area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the	
3	Province:			
	Permanent sea ice		area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the	
	Semi-permanent sea ice		area % of the A	U
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the	