

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

IDENTIFICATION INFORMATION

Assessment Geologist:	<u>D.L. Gautier</u>	Date:	<u>3-Aug-07</u>
Region:	<u>North America</u>	Number:	<u>5</u>
Province:	<u>East Greenland Rift Basins</u>	Number:	<u>5200</u>
Total Petroleum System:	<u>Upper Jurassic Marine Shales</u>	Number:	<u>520001</u>
Assessment Unit:	<u>North Danmarkshavn Salt Basin</u>	Number:	<u>52000101</u>
Scenario:	<u></u>	Number:	<u></u>
Based on Data as of:	<u></u>		
Notes from Assessor:	<u></u>		

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit: 69,219 square kilometers

Minimum assessed accumulation size: 50 mmboe (grown)

No. of discovered accumulations exceeding minimum size: Oil: 0 Gas: 0

Uncertainty Class:	Check One	Number
Producing fields	<u></u>	<u></u>
Discoveries	<u></u>	<u></u>
Wells	<u></u>	<u></u>
Seismic	<u>X</u>	<u></u>
No seismic	<u></u>	<u></u>

Median size (grown) of discovered oil accumulations (mmbo):

1st 3rd	<u></u>	2nd 3rd	<u></u>	3rd 3rd	<u></u>
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Median size (grown) of discovered gas accumulations (bcfg):

1st 3rd	<u></u>	2nd 3rd	<u></u>	3rd 3rd	<u></u>
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ANALOGS USED IN ESTIMATING INPUT

<u>Purpose</u>	<u>Analog or Analog Set</u>
1 <u>Number and sizes</u>	<u>Major Trap Type = Salt-induced structures</u>
2 <u>Coproducts</u>	<u>Halten Terrace-Trondelag Platform (40170101)</u>
3 <u>Ancillary</u>	<u>Halten Terrace-Trondelag Platform (40170101)</u>
4 <u></u>	<u></u>

Assessment Unit (name, no.)
Scenario (name, no.)

North Danmarkshavn Salt Basin, 52000101

Probability of occurrence (0-1.0)

Scenario Probability:

Assessment-Unit Probabilities: (Adequacy for at least one undiscovered field of minimum size)

Attribute	Probability of occurrence (0-1.0)
1. CHARGE: Adequate petroleum charge:	0.8
2. ROCKS: Adequate reservoirs, traps, and seals:	0.9
3. TIMING OF GEOLOGIC EVENTS: Favorable timing:	0.9
Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3):	0.648

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	35	maximum	100
Oil/Gas Mix:	minimum (>0)	0.1	mode	0.4	maximum	0.6
	X	# of oil accumulations / # of total accumulations				
		# of oil accumulations / # of gas accumulations				
		# of gas accumulations / # of oil accumulations				
Oil Accumulations:	minimum (>0)	0	median	13	maximum	60
Gas Accumulations:	minimum (>0)	1	median	22	maximum	90

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

Oil in Oil Accumulations (mmbb):	minimum	50	median	110	maximum	18000
Gas in Gas Accumulations (bcfg):	minimum	300	median	660	maximum	110000

RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS

(variations in the properties of undiscovered accumulations)

<u>Oil Accumulations:</u>	minimum	median	maximum
Gas/oil ratio (cfg/bo):	0	1600	20000
NGL/gas ratio (bnlq/mmcf):	0	60	600
<u>Gas Accumulations:</u>	minimum	median	maximum
Liquids/gas ratio (bliq/mmcf):	0	90	350

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:

	minimum	median	maximum
API gravity (degrees):	<u>25</u>	<u>44</u>	<u>55</u>
Viscosity (centipoise)	<u>0.5</u>	<u>0.7</u>	<u>2.3</u>
Sulfur content of oil (%):	<u>0.05</u>	<u>0.09</u>	<u>0.3</u>
Depth (m) of water (if applicable):	<u>200</u>	<u>350</u>	<u>500</u>

	minimum	F75	median	F25	maximum
Drilling Depth (m):	<u>500</u>		<u>2250</u>		<u>4000</u>

Gas Accumulations:

	minimum	median	maximum
Inert gas content (%):	<u>0.1</u>	<u>0.6</u>	<u>3</u>
Carbon dioxide content (%):	<u>0.1</u>	<u>3</u>	<u>6</u>
Hydrogen sulfide content (%):	<u>0.5</u>	<u>3</u>	<u>10</u>
Depth (m) of water (if applicable):	<u>200</u>	<u>350</u>	<u>500</u>

	minimum	F75	median	F25	maximum
Drilling Depth (m):	<u>500</u>		<u>2500</u>		<u>4500</u>

Assessment Unit (name, no.)
Scenario (name, no.)

North Danmarkshavn Salt Basin, 52000101

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ARCTIC AREA

1 North of Arctic Circle

100 area % of the AU

Oil in Oil Accumulations: 100 volume % of the AU

Gas in Gas Accumulations: 100 volume % of the AU

2 South of Arctic Circle

 area % of the AU

Oil in Oil Accumulations: volume % of the AU

Gas in Gas Accumulations: volume % of the AU

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

98.21 area % of the AU

Oil in Oil Accumulations: 100 volume % of the AU
Gas in Gas Accumulations: 100 volume % of the AU

2 Onshore portion of:

Greenland

1.79 area % of the AU

Oil in Oil Accumulations: 0 volume % of the AU
Gas in Gas Accumulations: 0 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

4 Onshore portion of:

 area % of the AU

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

5 Onshore portion of:

 area % of the AU

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

6 Onshore portion of:

 area % of the AU

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