

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

**IDENTIFICATION INFORMATION**

|                         |  |         |                  |
|-------------------------|--|---------|------------------|
| Assessment Geologist:   | <u>C.J. Schenk</u>                       | Date:   | <u>13-Dec-07</u> |
| Region:                 | <u>North America</u>                     | Number: | <u>5</u>         |
| Province:               | <u>West Greenland-East Canada</u>        | Number: | <u>5208</u>      |
| Total Petroleum System: | <u>Mesozoic-Cenozoic Composite</u>       | Number: | <u>520801</u>    |
| Assessment Unit:        | <u>Northwest Greenland Rifted Margin</u> | Number: | <u>52080102</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: 296,990 square kilometers

Minimum assessed accumulation size: 50 mmboe (grown)

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

| <b>Uncertainty Class:</b> | Check One | Number   |
|---------------------------|-----------|----------|
| Producing fields          | <u></u>   | <u></u>  |
| Discoveries               | <u></u>   | <u></u>  |
| Wells                     | <u>X</u>  | <u>4</u> |
| Seismic                   | <u></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> |
|---------|---------|---------|---------|---------|---------|

Median size (grown) of discovered gas accumulations (bcfg):

|         |         |         |         |         |         |
|---------|---------|---------|---------|---------|---------|
| 1st 3rd | <u></u> | 2nd 3rd | <u></u> | 3rd 3rd | <u></u> |
|---------|---------|---------|---------|---------|---------|

**ANALOGS USED IN ESTIMATING INPUT**

| <u>Purpose</u>                    | <u>Analog or Analog Set</u> |
|-----------------------------------|-----------------------------|
| 1 <u>Numbers of Accumulations</u> | <u>Rift-Sag</u>             |
|                                   | <u></u>                     |
|                                   | <u></u>                     |
| 2 <u>Sizes of Accumulations</u>   | <u>Rift-Sag</u>             |
|                                   | <u></u>                     |
|                                   | <u></u>                     |
| 3 <u>Ancillary Data</u>           | <u>World averages</u>       |
|                                   | <u></u>                     |
|                                   | <u></u>                     |
| 4 <u></u>                         | <u></u>                     |
|                                   | <u></u>                     |
|                                   | <u></u>                     |

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

Northwest Greenland Rifted Margin, 52080102

Probability of occurrence (0-1.0)

**Scenario Probability:**

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

| <u>Attribute</u>  | <u>Probability of occurrence (0-1.0)</u> |
|---|--|
| 1. <b>CHARGE:</b> Adequate petroleum charge:                          | <u>0.5</u>                               |
| 2. <b>ROCKS:</b> Adequate reservoirs, traps, and seals:               | <u>1.0</u>                               |
| 3. <b>TIMING OF GEOLOGIC EVENTS:</b> Favorable timing:                | <u>1.0</u>                               |
| <b>Assessment-Unit GEOLOGIC Probability</b> (Product of 1, 2, and 3): | <u>0.500</u>                             |

**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) <u>1</u>                                      | median <u>60</u> | maximum <u>250</u> |
| Oil/Gas Mix:         | minimum (>0) <u>0.1</u>                                    | mode <u>0.6</u>  | maximum <u>0.9</u> |
|                      | <u>X</u> # of oil accumulations / # of total accumulations |                  |                    |
|                      | # of oil accumulations / # of gas accumulations            |                  |                    |
|                      | # of gas accumulations / # of oil accumulations            |                  |                    |
| Oil Accumulations:   | minimum (>0) <u>1</u>                                      | median <u>30</u> | maximum <u>225</u> |
| Gas Accumulations:   | minimum (>0) <u>1</u>                                      | median <u>27</u> | maximum <u>225</u> |

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

|                                  |                    |                   |                      |
|----------------------------------|--------------------|-------------------|----------------------|
| Oil in Oil Accumulations (mmb):  | minimum <u>50</u>  | median <u>110</u> | maximum <u>10000</u> |
| Gas in Gas Accumulations (bcfg): | minimum <u>300</u> | median <u>660</u> | maximum <u>60000</u> |

**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):        | <u>200</u> | <u>650</u> | <u>10000</u> |
| NGL/gas ratio (bnlq/mmcf):     | <u>4</u>   | <u>20</u>  | <u>90</u>    |
| <u>Gas Accumulations:</u>      | minimum    | median     | maximum      |
| Liquids/gas ratio (bliq/mmcf): | <u>2</u>   | <u>20</u>  | <u>85</u>    |

**SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS**

(variations in the properties of undiscovered accumulations)

| <u>Oil Accumulations:</u>           | minimum     |  | median     |  | maximum     |
|-------------------------------------|-------------|--|------------|--|-------------|
| API gravity (degrees):              | <u>23</u>   |  | <u>40</u>  |  | <u>55</u>   |
| Viscosity (centipoise)              | <u>120</u>  |  | <u>280</u> |  | <u>8200</u> |
| Sulfur content of oil (%):          | <u>0.24</u> |  | <u>0.7</u> |  | <u>5</u>    |
| Depth (m) of water (if applicable): | <u>0</u>    |  | <u>400</u> |  | <u>800</u>  |

|                     | minimum    | F75 | median      | F25 | maximum     |
|---------------------|------------|-----|-------------|-----|-------------|
| Drilling Depth (m): | <u>500</u> |     | <u>2000</u> |     | <u>5000</u> |

| <u>Gas Accumulations:</u>           | minimum    |  | median     |  | maximum    |
|-------------------------------------|------------|--|------------|--|------------|
| Inert gas content (%):              | <u>1.5</u> |  | <u>3.8</u> |  | <u>17</u>  |
| Carbon dioxide content (%):         | <u>1.4</u> |  | <u>5</u>   |  | <u>28</u>  |
| Hydrogen sulfide content (%):       | <u>0.7</u> |  | <u>1.5</u> |  | <u>6</u>   |
| Depth (m) of water (if applicable): | <u>0</u>   |  | <u>400</u> |  | <u>800</u> |

|                     | minimum    | F75 | median      | F25 | maximum     |
|---------------------|------------|-----|-------------|-----|-------------|
| Drilling Depth (m): | <u>500</u> |     | <u>2500</u> |     | <u>9000</u> |

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

Northwest Greenland Rifted Margin, 52080102

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### ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ARCTIC AREA

1 North of Arctic Circle

54.83 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

45.17 area % of the AU

Oil in Oil Accumulations: 43.99 volume % of the AU

Gas in Gas Accumulations: 43.99 volume % of the AU

**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES**

1 Offshore

95.47 area % of the AU

Oil in Oil Accumulations: 94.99 volume % of the AU

Gas in Gas Accumulations: 94.99 volume % of the AU

2 Onshore portion of:

Greenland

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4.53 area % of the AU

Oil in Oil Accumulations: 5.01 volume % of the AU

Gas in Gas Accumulations: 5.01 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