

Supplementary Appendix 1. Assessment input data for the Northwest Izhma Depression 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:	<u>C.J. Schenk</u>	Date:	<u>26-Feb-08</u>
Region:	<u>Former Soviet Union</u>	Number:	<u>1</u>
Province:	<u>Timan-Pechora</u>	Number:	<u>1008</u>
Total Petroleum System:	<u>Domanik-Paleozoic</u>	Number:	<u>100801</u>
Assessment Unit:	<u>Northwest Izhma Depression</u>	Number:	<u>10080101</u>
Scenario:	_____	Number:	_____
Based on Data as of:	_____		
Notes from Assessor:	<u>Not quantitatively assessed</u>		

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit: 81,000 square kilometers

Minimum assessed accumulation size: 50 MMBOE (grown)

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

Uncertainty Class:	Check One	Number
Producing fields	_____	_____
Discoveries	_____	_____
Wells	_____	_____
Seismic	_____	_____
No seismic	_____	_____

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>None</u>
2 _____	_____
3 _____	_____
4 _____	_____

Assessment Unit (name, no.) Northwest Izhma Depression, 10080101
 Scenario (name, no.) _____

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. CHARGE: Adequate petroleum charge:	<u>0.2</u>
2. ROCKS: Adequate reservoirs, traps, and seals:	<u>0.5</u>
3. TIMING OF GEOLOGIC EVENTS: Favorable timing:	<u>0.2</u>
Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3):	<u>0.05</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) _____ median _____ maximum _____

Oil/Gas Mix: minimum (>0) _____ mode _____ maximum _____

x no. of oil accumulations / no. of total accumulations

_____ no. of oil accumulations / no. of gas accumulations

_____ no. of gas accumulations / no. of oil accumulations

Oil Accumulations: minimum (>0) _____ median _____ maximum _____

Gas Accumulations: minimum (>0) _____ median _____ maximum _____

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 _____ median _____ maximum _____

Gas in Gas Accumulations (BCFG): minimum _____ median _____ maximum _____

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):	_____	_____	_____
NGL/gas ratio (BNGL/MMCFG):	_____	_____	_____
<u>Gas Accumulations:</u>	minimum	median	maximum
Liquids/gas ratio (BLIQ/MMCFG):	_____	_____	_____

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

Northwest Izhma Depression, 10080101

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS
(variations in the properties of undiscovered accumulations)

<u>Oil Accumulations:</u>	minimum		median		maximum
API gravity (degrees):	_____		_____		_____
Viscosity (centipoise)	_____		_____		_____
Sulfur content of oil (%):	_____		_____		_____
Depth (m) of water (if applicable):	_____		_____		_____

Drilling depth (m):	minimum	F75	median	F25	maximum
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<u>Gas Accumulations:</u>	minimum		median		maximum
Inert gas content (%):	_____		_____		_____
Carbon dioxide content (%):	_____		_____		_____
Hydrogen sulfide content (%):	_____		_____		_____
Depth (m) of water (if applicable):	_____		_____		_____

Drilling depth (m):	minimum	F75	median	F25	maximum
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