Supplementary Appendix 3. Assessment input data for the Foredeep Basins 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:	27-Feb-08		
Region:	Former Sovi					Number:	1		
Province:	Timan-Pechora					Number:	1008		
Total Petroleum System:	Domanik-Pa	leozoic			Nur Nur		100801		
Assessment Unit:	Foredeep Ba	asins					10080103		
Scenario:						Number:			
Based on Data as of:									
Notes from Assessor:									
	CHAR	ACTERIS	STICS OF A	SSESSM	ENT UNIT				
Area of assessment unit:				88,000	88,000 square kilometers				
Minimum assessed accumula	ation size:			50	50 MMBOE (grown)				
No. of discovered accumulation	ions exceeding	g minimur	n size:	O	il:	_ Gas	2		
Uncertainty Class:	Check One		Number						
Producing fields	X		2						
Discoveries				=					
Wells				=					
Seismic									
No seismic									
Median size (grown) of disco	vered oil accur	mulations	(MMBO):						
		1st 3rd		2nd 3r	rd	3rd 3rd	I		
Median size (grown) of disco	vered gas acci			_					
		1st 3rd		2nd 3r	·d	3rd 3rd	1		
	ANA	ALOGS U	SED IN ES	TIMATING	INPUT				
<u>Purpose</u>	<u>A</u>	nalog or	Analog Set						
1 Numbers of Accumulation	<u>n</u> s <u>C</u>	Compress	ional; archit	ecture, for	reland basin	s			
2 Sizes of Accumulations Compressional; archite		ecture, for	reland basin	S					
3 Ancillary Data	<u></u>	Vorld ave	rages; data	from 2000)				
4 Co-Products World averages; data			from 2000)					

Assessment Unit (name, no.) Scenario (name, no.)	Foredeep Basins, 10080103					
Scenario Probability:					Probability of	occurrence (0-1.0)
Assessment-Unit Probabilities:	(Adequacy	for at least	one undisco	overed fiel	d of minimum s	ize)
Attribute 1. CHARGE: Adequate petroleum char 2. ROCKS: Adequate reservoirs, traps 3. TIMING OF GEOLOGIC EVENTS: F	, and seals:	ing:			Probability of	1.0 0.6 0.9
Assessment-Unit GEOLOGIC Probab	oility (Product	t of 1, 2, and	I 3):			0.54
	UNDISCOV	ERED ACC	UMULATIO	NS		_
Number of Undiscovered Accumulati						
Total Accumulations:	minimum (>0)	1	median_	16	maximum	55
Oil/Gas Mix: r	no. of oil ac no. of oil ac	0 ccumulation ccumulation accumulatio	s / no. of tota s / no. of ga	al accumu s accumu	lations	15
Oil Accumulations: r Gas Accumulations: r	minimum (>0) minimum (>0)	1	median _ median _	1 15	maximum maximum	8 55
Sizes of Undiscovered Accumulation (vari	s: What are stations in the s	, •	,			
Oil in Oil Accumulations (MMBO): Gas in Gas Accumulations (BCFG)	minimum : minimum		median _ median _	110 660	maximum maximum	1,200 5,000
RATIOS FOR UNDIS (variation	SCOVERED A		•			S
Oil Accumulations: Gas/oil ratio (CFG/BO): NGL/gas ratio (BNGL/MMCFG):		minimum 500 5	<u>-</u>	median 1,000 20	- <u>-</u>	maximum 12,000 110
Gas Accumulations: Liquids/gas ratio (BLIQ/MMCFG):		minimum 5	_	median 20	_	maximum 80

Foredeep Basins, 1	00801	103
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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 applicable):	minimum 30 0.01 0.1 0		median 35 2.9 0.4 10		maximum 40 30 1 20
Drilling depth (m):	minimum 2,000	F75	median 4,000	F25	maximum 5,500
Gas Accumulations: Inert gas content (%): Carbon dioxide content (%): Hydrogen sulfide content (%): Depth (m) of water (if applicable):	minimum 2 0.5 0		median 4 3 0.5 10		maximum 7 6 2 20
Drilling depth (m):	minimum 2,500	F75	median 4,000	F25	maximum 7,000
Assessment Unit (name, no.) Scenario (name, no.)	Foredeep Basins, 1008	0103			

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ARCTIC AREA

1	North of Arctic Circle			
		srea % of the AU		
		Oil in Oil Accumulations: Gas in Gas Accumulations:	57 57	volume % of the AU volume % of the AU
2	South of Arctic Circle			
		43 area % of the AU		
		Oil in Oil Accumulations: Gas in Gas Accumulations:	43	volume % of the AU volume % of the AU

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

Foredeep Basins,	10080103		

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1	Offshore		
		12.9 area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	12.9 volume % of the AU 12.9 volume % of the AU
2	Onshore portion of:	Russian Federation 87.1 area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	87.1 volume % of the AU 87.1 volume % of the AU
	sessment Unit (name, no.) enario (name, no.)	Foredeep Basins, 10	0080103
	ALLOCA	TIONS OF POTENTIAL ADDITIO	ONS TO RESERVES TO PROVINCES
1	ONSHORE portion of:	None	.
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU
	OFFSHORE portion of:	None	
		area % of the AU	
		Oil in Oil Accumulations: Gas in Gas Accumulations:	volume % of the AU volume % of the AU