

**FORSPAN ASSESSMENT MODEL FOR CONTINUOUS  
ACCUMULATIONS--BASIC INPUT DATA FORM (NOGA, Version 9, 2-10-03)**

**IDENTIFICATION INFORMATION**

Assessment Geologist:	<u>M.A. Kirschbaum and S.M. Condon</u>	Date:	<u>19-Feb-08</u>
Region:	<u>North America</u>	Number:	<u>5</u>
Province:	<u>Bighorn Basin</u>	Number:	<u>5034</u>
Total Petroleum System:	<u>Cretaceous-Tertiary Composite</u>	Number:	<u>503402</u>
Assessment Unit:	<u>Muddy-Frontier Sandstone and Mowry Fractured Shale Continuous Gas</u>	Number:	<u>50340261</u>
Based on Data as of:	<u>IHS Energy (2007); Cardinal and others (1989)</u>		
Notes from Assessor:	<u></u>		

**CHARACTERISTICS OF ASSESSMENT UNIT**

**Assessment-unit type:** Oil (<20,000 cfg/bo) or Gas (≥20,000 cfg/bo), incl. disc. & pot. additions Gas

**What is the minimum total recovery per cell?** 0.02 (mmbo for oil AU; bcfg for gas AU)

Number of tested cells: 23

Number of tested cells with total recovery per cell ≥ minimum: 5

Established (discovered cells): X Hypothetical (no cells):

Median total recovery per cell (for cells ≥ min.): (mmbo for oil AU; bcfg for gas AU)

1st 3rd discovered  2nd 3rd  3rd 3rd

**Assessment-Unit Probabilities:**

<u>Attribute</u>	<u>Probability of occurrence (0-1.0)</u>
1. <b>CHARGE:</b> Adequate petroleum charge for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
2. <b>ROCKS:</b> Adequate reservoirs, traps, seals for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
3. <b>TIMING:</b> Favorable geologic timing for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
<b>Assessment-Unit GEOLOGIC Probability</b> (Product of 1, 2, and 3):	<u>1.0</u>

**NO. OF UNTESTED CELLS WITH POTENTIAL FOR ADDITIONS TO RESERVES**

1. Total assessment-unit area (acres): (uncertainty of a fixed value)

calculated mean 969,000 minimum 872,000 mode 969,000 maximum 1,066,000

2. Area per cell of untested cells having potential for additions to reserves (acres): (values are inherently variable)

calculated mean 130 minimum 40 mode 50 maximum 300

uncertainty of mean: minimum 100 maximum 160

3. Percentage of total assessment-unit area that is untested (%): (uncertainty of a fixed value)

calculated mean 99.6 minimum 99.2 mode 99.7 maximum 99.9

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**NO. OF UNTESTED CELLS WITH POTENTIAL FOR ADDITIONS TO RESERVES**  
**(Continued)**

4. Percentage of untested assessment-unit area that has potential for additions to reserves (%):  
( a necessary criterion is that total recovery per cell  $\geq$  minimum; uncertainty of a fixed value)

calculated mean 8.4    minimum 0.6    mode 2    maximum 22.5

Geologic evidence for estimates:

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**TOTAL RECOVERY PER CELL**

Total recovery per cell for untested cells having potential for additions to reserves:  
(values are inherently variable; mmbo for oil AU; bcfg for gas AU)

calculated mean 0.57    minimum 0.02    median 0.35    maximum 7.5

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**AVERAGE COPRODUCT RATIOS FOR UNTESTED CELLS, TO ASSESS COPRODUCTS**

(uncertainty of fixed but unknown values)

<u>Oil assessment unit:</u>	minimum	mode	maximum
Gas/oil ratio (cfg/bo)	<u>                    </u>	<u>                    </u>	<u>                    </u>
NGL/gas ratio (bnlg/mmcf)	<u>                    </u>	<u>                    </u>	<u>                    </u>
<u>Gas assessment unit:</u>			
Liquids/gas ratio (bliq/mmcf)	<u>0</u>	<u>0.5</u>	<u>2</u>

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**SELECTED ANCILLARY DATA FOR UNTESTED CELLS**

(values are inherently variable)

<u>Oil assessment unit:</u>		minimum	mode	maximum
API gravity of oil (degrees)		_____	_____	_____
Sulfur content of oil (%)		_____	_____	_____
Depth (m) of water (if applicable)		_____	_____	_____

Drilling depth (m)

minimum	F75	mode	F25	maximum
_____	_____	_____	_____	_____

<u>Gas assessment unit:</u>		minimum	mode	maximum
Inert-gas content (%)		0.00	0.50	2.00
CO <sub>2</sub> content (%)		0.00	3.00	5.00
Hydrogen sulfide content (%)		0.00	0.00	0.00
Heating value (BTU)		950	1000	1100
Depth (m) of water (if applicable)		_____	_____	_____

Drilling depth (m)

minimum	F75	mode	F25	maximum
3000	3500	4000	5800	6700

<u>Success ratios:</u>	calculated mean	minimum	mode	maximum
Future success ratio (%)	35	10	20	75

Historic success ratio, tested cells (%) 22

Completion practices:

1. Typical well-completion practices (conventional, open hole, open cavity, other)	conventional
2. Fraction of wells drilled that are typically stimulated	100
3. Predominant type of stimulation (none, frac, acid, other)	hydrofrac
4. Fraction of wells drilled that are horizontal	0

**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO STATES**  
**Surface Allocations** (uncertainty of a fixed value)

1. <u>Wyoming</u>	represents	<u>100</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>100</u>	_____
2. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
3. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
4. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
5. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
6. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

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7. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

8. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

9. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

10. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

11. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

12. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO GENERAL LAND OWNERSHIPS**  
**Surface Allocations** (uncertainty of a fixed value)

1. <u>Federal Lands</u>	represents	<u>75.09</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>75</u>	_____
2. <u>Private Lands</u>	represents	<u>19.95</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>20</u>	_____
3. <u>Tribal Lands</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
4. <u>Other Lands</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
5. <u>WY State Lands</u>	represents	<u>4.96</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>5</u>	_____
6. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

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7. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

8. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

9. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

10. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

11. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

12. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

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**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO FEDERAL LAND SUBDIVISIONS**  
**Surface Allocations** (uncertainty of a fixed value)

1.	<u>Bureau of Land Management (BLM)</u>	represents	<u>72.58</u>	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	<u>74.9</u>	_____
2.	<u>BLM Wilderness Areas (BLMW)</u>	represents	_____	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	_____	_____
3.	<u>BLM Roadless Areas (BLMR)</u>	represents	_____	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	_____	_____
4.	<u>National Park Service (NPS)</u>	represents	_____	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	_____	_____
5.	<u>NPS Wilderness Areas (NPSW)</u>	represents	_____	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	_____	_____
6.	<u>NPS Protected Withdrawals (NPSP)</u>	represents	_____	area % of the AU
	<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
	Volume % in entity	_____	_____	_____
	<u>Gas in gas assessment unit:</u>			
	Volume % in entity	_____	_____	_____

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7. <u>US Forest Service (FS)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____
8. <u>USFS Wilderness Areas (FSW)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____
9. <u>USFS Roadless Areas (FSR)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____
10. <u>USFS Protected Withdrawals (FSP)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____
11. <u>US Fish and Wildlife Service (FWS)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____
12. <u>USFWS Wilderness Areas (FWSW)</u>	_____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum		mode	maximum
Volume % in entity	_____		_____	_____
<u>Gas in gas assessment unit:</u>				
Volume % in entity	_____		_____	_____

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<u>13. USFWS Protected Withdrawals (FWSP)</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
<u>14. Wilderness Study Areas (WS)</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
<u>15. Department of Energy (DOE)</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
<u>16. Department of Defense (DOD)</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
<u>17. Bureau of Reclamation (BOR)</u>	represents	2.51	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	0.1	_____
<u>18. Tennessee Valley Authority (TVA)</u>	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

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19. Other Federal represents \_\_\_\_\_ area % of the AU

<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____

<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

20. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____

<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO ECOSYSTEMS**  
**Surface Allocations** (uncertainty of a fixed value)

1. <u>Bighorn Basin (BHBA)</u>	represents	<u>85.95</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>80</u>	_____
2. <u>Yellowstone Highlands (YSHL)</u>	represents	<u>14.05</u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	<u>20</u>	_____
3. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
4. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
5. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____
6. _____	represents	_____	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	_____	_____	_____
<u>Gas in gas assessment unit:</u>			
Volume % in entity	_____	_____	_____

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7. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

8. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

9. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

10. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

11. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

12. \_\_\_\_\_ represents \_\_\_\_\_ area % of the AU

Oil in oil assessment unit:                    minimum                    mode                    maximum  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_

Gas in gas assessment unit:  
Volume % in entity                    \_\_\_\_\_                    \_\_\_\_\_                    \_\_\_\_\_