

Appendix 3. Input Data Form for the Wilcox Coalbed Gas Assessment Unit (50470381)

The input data form in this appendix was used for evaluating the Wilcox Coalbed Gas Assessment Unit (50470381). The form was prepared for the U.S. Geological Survey National Oil and Gas Assessment (NOGA) so that geologists would have a consistent format to use in assessing continuous accumulations of gas. Some spaces on the form are blank because the information is not applicable to this assessment unit. To estimate the potential additions to reserves of continuous accumulations, the USGS has developed a model called “FORSPAN” (acronym for FORecast SPAN; Schmoker, 1999). The FORSPAN model treats a continuous accumulation as a collection of petroleum-containing cells for assessment purposes. A cell is a subdivision or area within a continuous accumulation having dimensions related to the drainage areas of wells. Two sources cited in this appendix (IHS Energy Group, 2005a, b) are listed below and are discussed in the body of this report in the section “Methods.”

Some abbreviations used in the input form are lowercase, and that style differs from the uppercase abbreviations used in the body of this report. The meaning of the terms is the same: bcfg=BCFG; bliq/mmcfg=BLIQ/MMCFG. Definitions of the abbreviations follow: AU, assessment unit; bcfg, billion cubic feet of gas; bliq/mmcfg, barrels of liquid per million cubic feet of gas; bnlg/mmcfg, barrels of natural gas liquids per million cubic feet of gas; BTU, British thermal unit; CBM,

coalbed methane; cfg/bo, cubic feet of gas per barrel of oil; CO₂, carbon dioxide; disc., discovered; frac, fracture; incl., including; m, meter; Mid, Middle; min., minimum; mmbo, million barrels of oil; NGL, natural gas liquids; NO., no., number; pot., potential; SONRIS, Strategic Online Natural Resources Information System.

The input data form for appendix 3 is available at <https://doi.org/10.3133/ofr20171167>.

References Cited

IHS Energy Group, 2005a [includes data current as of December 2005], PI/Dwights PLUS U.S. production data: Englewood, Colo., IHS Energy Group database.

IHS Energy Group, 2005b [includes data current as of December 2005], PI/Dwights PLUS U.S. well data: Englewood, Colo., IHS Energy Group database.

Schmoker, J.W., 1999, U.S. Geological Survey assessment model for continuous (unconventional) oil and gas accumulations—The “FORSPAN” model: U.S. Geological Survey Bulletin 2168, 9 p., accessed September 23, 2009, at <https://pubs.er.usgs.gov/publication/b2168>.

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

IDENTIFICATION INFORMATION

Assessment Geologist:	<u>P.D. Warwick</u>	Date:	<u>1/26/2007</u>
Region:	<u>North America</u>	Number:	<u>5</u>
Province:	<u>Western Gulf</u>	Number:	<u>5047</u>
Total Petroleum System:	<u>Wilcox Coalbed Gas</u>	Number:	<u>504703</u>
Assessment Unit:	<u>Wilcox Coalbed Gas</u>	Number:	<u>50470381</u>
Based on Data as of:	<u>IHS Energy Group (2005a,b) (data current through 2005) and Louisiana Department of Natural Resources SONRIS website (http://www.sonris.com/)</u>		
Notes from Assessor:	<u>Analog: Raton Basin (50410181) and Powder River Basin (50330182)</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? 0.01 (mmbo for oil AU; bcfg for gas AU)

Number of tested cells: 53

Number of tested cells with total recovery per cell ≥ minimum: 10

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. CHARGE: Adequate petroleum charge for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
2. ROCKS: Adequate reservoirs, traps, seals for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
3. TIMING: Favorable geologic timing for an untested cell with total recovery ≥ minimum.	<u>1.0</u>
Assessment-Unit GEOLOGIC Probability (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 40,210,000 minimum 36,189,000 mode 40,210,000 maximum 44,231,000

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

calculated mean 57 minimum 10 mode 40 maximum 120

uncertainty of mean: minimum 40 maximum 74

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

calculated mean 100 minimum 100 mode 100 maximum 100

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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 0.1 mode 5 maximum 20

Geologic evidence for estimates:

At the mode, 15% of the AU has greatest potential for CBM and 30% of that would have recoveries > 0.01 bcfg.

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 0.07 minimum 0.01 median 0.05 maximum 0.5

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 (bnl/mmcf)	<u> </u>	<u> </u>	<u> </u>
<u>Gas assessment unit:</u>			
Liquids/gas ratio (bliq/mmcf)	<u>0</u>	<u>0</u>	<u>0</u>

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

Gas assessment unit:

		minimum	mode	maximum
Inert-gas content (%)		0.20	3.30	7.00
CO ₂ content (%)		0.05	0.90	2.50
Hydrogen sulfide content (%)		0.00	0.00	0.00
Heating value (BTU)		975	995	1200
Depth (m) of water (if applicable)		0	10	20

Drilling depth (m)

minimum	F75	mode	F25	maximum
460	600	910	1370	1830

Success ratios:

	calculated mean	minimum	mode	maximum
Future success ratio (%)	30	10	30	50

Historic success ratio, tested cells (%) 19

Completion practices:

1. Typical well-completion practices (conventional, open hole, open cavity, other)	<u>conventional</u>
2. Fraction of wells drilled that are typically stimulated	<u>100%</u>
3. Predominant type of stimulation (none, frac, acid, other)	<u>frac</u>
4. Fraction of wells drilled that are horizontal	<u>0.01</u>

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

1. <u>Texas</u>	represents	<u>16.35</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>16.35</u>	_____
2. <u>Louisiana</u>	represents	<u>28.28</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>28.28</u>	_____
3. <u>Mississippi</u>	represents	<u>37.39</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>37.39</u>	_____
4. <u>Alabama</u>	represents	<u>4.45</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>4.45</u>	_____
5. <u>Arkansas</u>	represents	<u>13.54</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>13.54</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	_____	_____	_____

7. _____ represents _____ area % of the AU

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

8. _____ represents _____ area % of the AU

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

9. _____ represents _____ area % of the AU

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

10. _____ represents _____ area % of the AU

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

11. _____ represents _____ area % of the AU

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

12. _____ represents _____ area % of the AU

<u>Oil in oil assessment unit:</u> Volume % in entity	minimum _____	mode _____	maximum _____
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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>7.44</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>7.44</u>	_____
2. <u>Private lands</u>		represents	<u>71.34</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>71.34</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	<u>17.06</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>17.06</u>	_____
5. <u>Tex. State lands</u>		represents	<u>0.06</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>0.06</u>	_____
6. <u>La. State lands</u>		represents	<u>0.82</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>0.82</u>	_____

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7. <u>Miss. State lands</u>		represents	<u>0.30</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>			<u>0.30</u>	
Volume % in entity	_____		_____	_____
8. <u>Ark. State lands</u>		represents	<u>0.21</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>			<u>0.21</u>	
Volume % in entity	_____		_____	_____
9. <u>La. offshore</u>		represents	<u>0.40</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>			<u>0.40</u>	
Volume % in entity	_____		_____	_____
10. <u>Miss. offshore</u>		represents	<u>1.25</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>			<u>1.25</u>	
Volume % in entity	_____		_____	_____
11. <u>Ala. offshore</u>		represents	<u>1.12</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>			<u>1.12</u>	
Volume % in entity	_____		_____	_____
12. _____		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 FEDERAL LAND SUBDIVISIONS
Surface Allocations (uncertainty of a fixed value)

1. <u>Bureau of Land Management (BLM)</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	_____		_____	_____
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	0.14	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	_____		0.14	_____
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>United States (U.S.) Forest Service (FS)</u>	represents	<u>5.83</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>5.83</u>	_____
8. <u>U.S.FS 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>U.S.FS 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>U.S.FS 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>U.S. Fish and Wildlife Service (FWS)</u>	represents	<u>1.33</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>1.33</u>	_____
12. <u>U.S.FWS 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. U.S.FWS protected withdrawals (FWSP)</u>	represents	<u> </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>14. Wilderness study areas (WS)</u>	represents	<u> </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>15. U.S. Department of Energy (DOE)</u>	represents	<u> </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>16. U.S. Department of Defense (DOD)</u>	represents	<u> 0.14 </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> 0.14 </u>	<u> </u>
<u>17. Bureau of Reclamation (BOR)</u>	represents	<u> </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>18. Tennessee Valley Authority (TVA)</u>	represents	<u> </u>	area % of the AU
<u>Oil in oil assessment unit:</u>	minimum	mode	maximum
Volume % in entity	<u> </u>	<u> </u>	<u> </u>
<u>Gas in gas assessment unit:</u>			
Volume % in entity	<u> </u>	<u> </u>	<u> </u>

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19. Other Federal represents _____ area % of the AU

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

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

20. _____ represents _____ area % of the AU

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

<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)

<u>1. Arkansas valley (ARVL)</u>	represents	<u>0.12</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>0.12</u>	_____
<u>2. Coastal plains and flatwoods, lower (CPFL)</u>	represents	<u>19.28</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>19.28</u>	_____
<u>3. Coastal plains and flatwoods, western Gulf (CPFV)</u>	represents	<u>8.12</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>8.12</u>	_____
<u>4. Coastal plains, middle (CPMD)</u>	represents	<u>14.90</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>14.90</u>	_____
<u>5. Louisiana coast prairies and marshes (LCPM)</u>	represents	<u>1.23</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>1.23</u>	_____
<u>6. Mid coastal plains, western (MCPW)</u>	represents	<u>12.58</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>12.58</u>	_____

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7.	<u>Mississippi alluvial basin (MABA)</u>	represents	<u>31.16</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>31.16</u>	_____
8.	<u>Oak woods and prairies (OWPR)</u>	represents	<u>7.65</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>7.65</u>	_____
9.	<u>Rio Grande plain (RGPL)</u>	represents	<u>2.19</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>2.19</u>	_____
10.	_____	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.	_____	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.	_____	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	_____	_____	_____
