

**USGS WORLD PETROLEUM RESOURCES ASSESSMENT  
INPUT FORM FOR CONVENTIONAL ASSESSMENT UNITS (Version 6.0, September 2, 2008)**

**IDENTIFICATION INFORMATION**

Assessment Geologist:	<u>C.J. Schenk</u>	Date:	<u>8/12/2011</u>
Region:	<u>North America</u>	Number:	<u>5</u>
Province:	<u>Saline-Comalcalco Basin</u>	Number:	<u>5304</u>
Total Petroleum System:	<u>Mesozoic-Cenozoic Composite</u>	Number:	<u>530401</u>
Assessment Unit:	<u>Salt Basin Reservoirs</u>	Number:	<u>53040101</u>
Scenario:		Number:	
Based on Data as of:	<u>IHS (2009)</u>		
Notes from Assessor:	<u>NRG Field Reserve-Growth Function, 30 yrs</u>		

**CHARACTERISTICS OF ASSESSMENT UNIT**

Area of assessment unit: 27,979 square kilometers

Minimum assessed accumulation size: 1 MMBOE (grown)

No. of discovered accumulations exceeding minimum size: Oil: 70 Gas: 3

<b>Uncertainty Class:</b>	Check One	Number
Producing fields	<u>X</u>	<u>          </u>
Discoveries	<u>          </u>	<u>          </u>
Wells	<u>          </u>	<u>          </u>
Seismic	<u>          </u>	<u>          </u>
No seismic	<u>          </u>	<u>          </u>

Median size (grown) of discovered oil accumulations (MMBO):

1st 3rd	<u>36.5</u>	2nd 3rd	<u>20.7</u>	3rd 3rd	<u>32.7</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>Sizes</u>	<u>Salt</u>
	<u>          </u>
	<u>          </u>
2 <u>Numbers</u>	<u>Salt</u>
	<u>          </u>
	<u>          </u>
3 <u>          </u>	<u>          </u>
	<u>          </u>
	<u>          </u>
4 <u>          </u>	<u>          </u>
	<u>          </u>
	<u>          </u>

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

Salt Basin Reservoirs, 53040101

Probability of occurrence (0-1.0)

Scenario Probability:

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

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

### 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	mode	maximum
	number of oil accumulations / number of total accumulations		
	number of oil accumulations / number of gas accumulations		
	number of gas accumulations / number of oil accumulations		
Oil Accumulations:	minimum 1	median 140	maximum 280
Gas Accumulations:	minimum 1	median 15	maximum 30

**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 1	median 3	maximum 300
Gas in Gas Accumulations (BCFG):	minimum 6	median 18	maximum 1800

### 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):	200	1400	14500
NGL/gas ratio (BNGL/MMCFG):	1	70	200
<u>Gas Accumulations:</u>	minimum	median	maximum
Liquids/gas ratio (BLIQ/MMCFG):	1	4	120

**SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS**

(variations in the properties of undiscovered accumulations)

<u>Oil Accumulations:</u>	minimum		median		maximum
API gravity (degrees):	<u>15</u>		<u>32</u>		<u>45</u>
Viscosity (centipoise)	<u></u>		<u></u>		<u></u>
Sulfur content of oil (%):	<u>0.5</u>		<u>2</u>		<u>4</u>
Depth (m) of water (if applicable):	<u>0</u>		<u>50</u>		<u>1500</u>

	minimum	F75	median	F25	maximum
Drilling Depth (m):	<u>2000</u>		<u>3500</u>		<u>7500</u>

<u>Gas Accumulations:</u>	minimum		median		maximum
Inert gas content (%):	<u>0.1</u>		<u>0.5</u>		<u>3</u>
Carbon dioxide content (%):	<u>0.1</u>		<u>0.5</u>		<u>4</u>
Hydrogen sulfide content (%):	<u>0.1</u>		<u>0.5</u>		<u>2</u>
Depth (m) of water (if applicable):	<u>0</u>		<u>50</u>		<u>1500</u>

	minimum	F75	median	F25	maximum
Drilling Depth (m):	<u>2000</u>		<u>3500</u>		<u>7500</u>

Assessment Unit (name, no.)  
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Salt Basin Reservoirs, 53040101

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### ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

48.41 area % of the AU

Oil in Oil Accumulations: 48.00 volume % of the AU

Gas in Gas Accumulations: 48.00 volume % of the AU

2 Onshore portion of:

Mexico

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51.59 area % of the AU

Oil in Oil Accumulations: 52.00 volume % of the AU

Gas in Gas Accumulations: 52.00 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

Assessment Unit (name, no.)  
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Salt Basin Reservoirs, 53040101

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**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES**

1 ONSHORE portion of: Saline-Comalcalco Basin, 5304

51.59 area % of the AU

Oil in Oil Accumulations: 52.00 volume % of the AU

Gas in Gas Accumulations: 52.00 volume % of the AU

OFFSHORE portion of: Saline-Comalcalco Basin, 5304

48.41 area % of the AU

Oil in Oil Accumulations: 48.00 volume % of the AU

Gas in Gas Accumulations: 48.00 volume % of the AU

2 ONSHORE portion of: \_\_\_\_\_

\_\_\_\_\_ area % of the AU

Oil in Oil Accumulations: \_\_\_\_\_ volume % of the AU

Gas in Gas Accumulations: \_\_\_\_\_ volume % of the AU

OFFSHORE portion of: \_\_\_\_\_

\_\_\_\_\_ area % of the AU

Oil in Oil Accumulations: \_\_\_\_\_ volume % of the AU

Gas in Gas Accumulations: \_\_\_\_\_ 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

OFFSHORE portion of: \_\_\_\_\_

\_\_\_\_\_ area % of the AU

Oil in Oil Accumulations: \_\_\_\_\_ volume % of the AU

Gas in Gas Accumulations: \_\_\_\_\_ volume % of the AU

**ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES**

4 ONSHORE portion of: \_\_\_\_\_  
\_\_\_\_\_ area % of the AU  
Oil in Oil Accumulations: \_\_\_\_\_ volume % of the AU  
Gas in Gas Accumulations: \_\_\_\_\_ volume % of the AU

OFFSHORE 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

OFFSHORE 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

OFFSHORE portion of: \_\_\_\_\_  
\_\_\_\_\_ area % of the AU  
Oil in Oil Accumulations: \_\_\_\_\_ volume % of the AU  
Gas in Gas Accumulations: \_\_\_\_\_ volume % of the AU