

**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>27-Jan-12</u>
Region:	<u>Middle East and North Africa</u>	Number:	<u>2</u>
Province:	<u>Trias/Ghadames Basin</u>	Number:	<u>2054</u>
Total Petroleum System:	<u>Paleozoic Composite</u>	Number:	<u>205401</u>
Assessment Unit:	<u>Berkine Paleozoic and Mesozoic Reservoirs</u>	Number:	<u>20540103</u>
Scenario:	<u></u>	Number:	<u></u>
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: 163,144 square kilometers

Minimum assessed accumulation size: 1 MMBOE (grown)

No. of discovered accumulations exceeding minimum size: Oil: 142 Gas: 45

Uncertainty Class:	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>5</u>	2nd 3rd <u>20</u>	3rd 3rd <u>5.1</u>
Median size (grown) of discovered gas accumulations (BCFG):			
	1st 3rd <u>400</u>	2nd 3rd <u>75</u>	3rd 3rd <u>80</u>

ANALOGS USED IN ESTIMATING INPUT

<u>Purpose</u>	<u>Analog or Analog Set</u>
1 <u>Numbers and sizes</u>	<u>Between Compressional and Craton Interior</u>
2 <u></u>	<u></u>
3 <u></u>	<u></u>
4 <u></u>	<u></u>

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

Berkine Paleozoic and Mesozoic Reservoirs, 20540103

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. CHARGE: Adequate petroleum charge:	1.0
2. ROCKS: Adequate reservoirs, traps, and seals:	1.0
3. TIMING OF GEOLOGIC EVENTS: Favorable timing:	1.0
Assessment-Unit GEOLOGIC Probability (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	_____
		_____				_____
		_____				_____
		_____				_____
Oil Accumulations:	minimum	1	median	200	maximum	400
Gas Accumulations:	minimum	1	median	50	maximum	100

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	400
Gas in Gas Accumulations (BCFG):	minimum	6	median	18	maximum	1500

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):		100		1900		15000
NGL/gas ratio (BNGL/MMCFG):		1		50		150
<u>Gas Accumulations:</u>	minimum	_____	median	_____	maximum	_____
Liquids/gas ratio (BLIQ/MMCFG):		1		60		170

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:

	minimum	median	maximum
API gravity (degrees):	35	42	48
Viscosity (centipoise)	1	8	32
Sulfur content of oil (%):	0	0.2	1
Depth (m) of water (if applicable):			

	minimum	F75	median	F25	maximum
Drilling Depth (m):	2000		3000		4500

Gas Accumulations:

	minimum	median	maximum
Inert gas content (%):	0	0.1	2
Carbon dioxide content (%):	0	0.1	2
Hydrogen sulfide content (%):	0	0	0.1
Depth (m) of water (if applicable):			

	minimum	F75	median	F25	maximum
Drilling Depth (m):	2000		3500		5500

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

0 area % of the AU

Oil in Oil Accumulations: 0 volume % of the AU

Gas in Gas Accumulations: 0 volume % of the AU

2 Onshore portion of:

Algeria

62.08 area % of the AU

Oil in Oil Accumulations: 62.00 volume % of the AU

Gas in Gas Accumulations: 62.00 volume % of the AU

3 Onshore portion of:

Libya

17.74 area % of the AU

Oil in Oil Accumulations: 18.00 volume % of the AU

Gas in Gas Accumulations: 18.00 volume % of the AU

4 Onshore portion of:

Tunisia

20.18 area % of the AU

Oil in Oil Accumulations: 20.00 volume % of the AU

Gas in Gas Accumulations: 20.00 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

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

1 ONSHORE portion of: Trias/Ghadames Basin, 2054

91.80 area % of the AU

Oil in Oil Accumulations: 92.00 volume % of the AU

Gas in Gas Accumulations: 92.00 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

2 ONSHORE portion of: Illizi Basin, 2056

1.51 area % of the AU

Oil in Oil Accumulations: 2.00 volume % of the AU

Gas in Gas Accumulations: 2.00 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: Hamra Basin, 2047

3.01 area % of the AU

Oil in Oil Accumulations: 3.00 volume % of the AU

Gas in Gas Accumulations: 3.00 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: Pelagian Basin, 2048

3.69 area % of the AU

Oil in Oil Accumulations: 3.00 volume % of the AU

Gas in Gas Accumulations: 3.00 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