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

IDENTIFICATION INFORMATION

Assessment Geologist:	J.K. Pitman	Date:	3-May-11
Region:	Middle East and North Africa	Number:	2
Province:	Mesopotamian Foredeep Basin	Number:	2024
Total Petroleum System:	Mesozoic-Cenozoic Composite	Number:	202401
Assessment Unit:	Mesopotamian Basin Anticlines	Number:	20240101
Scenario:		Number:	
Based on Data as of:	IHS (2009)		
Notes from Assessor:	NRG Field Reserve Growth Factor, 30 yrs		

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit: 259,192 square kilometers

Minimum assessed accumulation size: 5 MMBOE (grown)

No. of discovered accumulations exceeding minimum size: Oil: 106 Gas: 3

Uncertainty Class:	Check One	Number
Producing fields	X	
Discoveries		
Wells		
Seismic		
No seismic		

Median size (grown) of discovered oil accumulations (MMBO):
1st 3rd 2556.1 2nd 3rd 512.3 3rd 3rd 369.2

Median size (grown) of discovered gas accumulations (BCFG):
1st 3rd 2nd 3rd 3rd 3rd

ANALOGS USED IN ESTIMATING INPUT

	Purpose	Analog or Analog Set
1	Numbers	Foreland basins, carbonate reservoirs
2		
3		
4		

Assessment Unit (name, no.) Mesopotamian Basin Anticlines, 20240101
Scenario (name, no.)

Scenario Probability: Probability of occurrence (0-1.0) _____

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	
		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	200	maximum	600
Gas Accumulations:	minimum	1	median	5	maximum	20

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	5	median	14	maximum	15000
Gas in Gas Accumulations (BCFG):	minimum	30	median	84	maximum	90000

RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum	median	maximum
Gas/oil ratio (CFG/BO):	30	600	14000
NGL/gas ratio (BNGL/MMCFG):	1	30	150

Gas Accumulations:	minimum	median	maximum
Liquids/gas ratio (BLIQ/MMCFG):	10	150	250

Assessment Unit (name, no.) Mesopotamian Basin Anticlines, 20240101
Scenario (name, no.)

SELECTED ANCILLARY DATA FOR UNDISCOVERED ACCUMULATIONS
(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum		median		maximum
API gravity (degrees):	14		30		50
Viscosity (centipoise):	0.3		0.8		145
Sulfur content of oil (%):	0		3		10
Depth (m) of water (if applicable):	0		30		70

	minimum	F75	median	F25	maximum
Drilling Depth (m):	300		2600		5200

Gas Accumulations:	minimum		median		maximum
Inert gas content (%):	0		1		2
Carbon dioxide content (%):	0		2		4.5
Hydrogen sulfide content (%):	0		0.2		4.5
Depth (m) of water (if applicable):	0		30		70

	minimum	F75	median	F25	maximum
Drilling Depth (m):	1000		4500		5200

Assessment Unit (name, no.) Mesopotamian Basin Anticlines, 20240101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO COUNTRIES

1 Offshore

28.44 area % of the AU

Oil in Oil Accumulations: 28.00 volume % of the AU
Gas in Gas Accumulations: 50.00 volume % of the AU

2 Onshore portion of: Iran

6.56 area % of the AU

Oil in Oil Accumulations: 7.00 volume % of the AU
Gas in Gas Accumulations: 0 volume % of the AU

3 Onshore portion of: Iraq

54.13 area % of the AU

Oil in Oil Accumulations: 56.00 volume % of the AU
Gas in Gas Accumulations: 0 volume % of the AU

4 Onshore portion of: Kuwait

5.70 area % of the AU

Oil in Oil Accumulations: 4.00 volume % of the AU
Gas in Gas Accumulations: 50.00 volume % of the AU

5 Onshore portion of: Saudi Arabia

5.16 area % of the AU

Oil in Oil Accumulations: 5.00 volume % of the AU
Gas in Gas Accumulations: 0 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.) Mesopotamian Basin Anticlines, 20240101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

1 ONSHORE portion of: Widyan Basin-Interior Platform, 2023

3.64 area % of the AU

Oil in Oil Accumulations: 3.00 volume % of the AU
Gas in Gas Accumulations: 0 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: Mesopotamian Foredeep Basin, 2024

64.91 area % of the AU

Oil in Oil Accumulations: 66.00 volume % of the AU
Gas in Gas Accumulations: 50.00 volume % of the AU

OFFSHORE portion of: Mesopotamian Foredeep Basin, 2024

28.39 area % of the AU

Oil in Oil Accumulations: 28.00 volume % of the AU
Gas in Gas Accumulations: 50.00 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

OFFSHORE portion of: Zagros Fold Belt, 2030

0.05 area % of the AU

Oil in Oil Accumulations: 0 volume % of the AU
Gas in Gas Accumulations: 0 volume % of the AU

Assessment Unit (name, no.) Mesopotamian Basin Anticlines, 20240101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

4 ONSHORE portion of: Khleisha Uplift, 2074

2.69 area % of the AU

Oil in Oil Accumulations: 3.00 volume % of the AU
Gas in Gas Accumulations: 0 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: Anah Graben, 2089

0.32 area % of the AU

Oil in Oil Accumulations: 0 volume % of the AU
Gas in Gas Accumulations: 0 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