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

IDENTIFICATION INFORMATION

Assessment Geologist:	C.J. Wandrey	Date:	3/20/2009
Region:	South Asia	Number:	8
Province:	Farah	Number:	8023
Total Petroleum System:	Upper Mesozoic-Paleogene	Number:	802301
Assessment Unit:	Tirpul	Number:	80230101
Scenario:		Number:	
Based on Data as of:			
Notes from Assessor:			

CHARACTERISTICS OF ASSESSMENT UNIT

Area of assessment unit: 8,725 square kilometers

Minimum assessed accumulation size: 5 MMBOE (grown)

No. of discovered accumulations exceeding minimum size: Oil: 0 Gas: 0

Uncertainty Class:	Check One	Number
Producing fields		
Discoveries		
Wells	X	5
Seismic		
No seismic		

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

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		
2		
3		
4		

Assessment Unit (name, no.) Tirpul, 80230101
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:	0.6
2. **ROCKS:** Adequate reservoirs, traps, and seals:	0.7
3. **TIMING OF GEOLOGIC EVENTS:** Favorable timing:	0.8

Assessment-Unit GEOLOGIC Probability (Product of 1, 2, and 3): 0.336

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	3	maximum	12
Gas Accumulations:	minimum	0	median	1	maximum	4

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	200
Gas in Gas Accumulations (BCFG):	minimum	30	median	84	maximum	1200

RATIOS FOR UNDISCOVERED ACCUMULATIONS, TO ASSESS COPRODUCTS

(variations in the properties of undiscovered accumulations)

Oil Accumulations:	minimum	median	maximum
Gas/oil ratio (CFG/BO):	100	1000	20000
NGL/gas ratio (BNGL/MMCFG):	5	25	85

Gas Accumulations:	minimum	median	maximum
Liquids/gas ratio (BLIQ/MMCFG):	5	25	75

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

Oil Accumulations:	minimum		median		maximum
API gravity (degrees):	20		38		55
Viscosity (centipoise)	0.01		3		30
Sulfur content of oil (%):	0		0.3		1.5
Depth (m) of water (if applicable):					
	minimum	F75	median	F25	maximum
Drilling Depth (m):	350		2000		7000

Gas Accumulations:	minimum		median		maximum
Inert gas content (%):	0		2		10
Carbon dioxide content (%):	0		1.5		10
Hydrogen sulfide content (%):	0		0.5		3.5
Depth (m) of water (if applicable):					
	minimum	F75	median	F25	maximum
Drilling Depth (m):	350		2000		7000

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Scenario (name, no.)

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: Afghanistan

98.94 area % of the AU

Oil in Oil Accumulations: 100 volume % of the AU
Gas in Gas Accumulations: 100 volume % of the AU

3 Onshore portion of: Iran

1.06 area % of the AU

Oil in Oil Accumulations: 0 volume % of the AU
Gas in Gas Accumulations: 0 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.) Tirpul, 80230101
Scenario (name, no.)

ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

1 ONSHORE portion of: Kopet-Dag Foldbelt, 1155

1.66 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

2 ONSHORE portion of: Central Iranian Basins, 2091

39.98 area % of the AU

Oil in Oil Accumulations: 41.00 volume % of the AU
Gas in Gas Accumulations: 41.00 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: Lut Block and Depression, 2093

1.64 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

Assessment Unit (name, no.) Tirpul, 80230101
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ALLOCATIONS OF POTENTIAL ADDITIONS TO RESERVES TO PROVINCES

4 ONSHORE portion of: Farah, 8023

56.71 area % of the AU

Oil in Oil Accumulations: 59.00 volume % of the AU
Gas in Gas Accumulations: 59.00 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