

**Late Cretaceous-Tertiary Slide Blocks and Turbidites, Assessment Unit 60340102**  
**Assessment Results Summary**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

Field Type	MFS	Prob. (0-1)	Undiscovered Resources												Largest Undiscovered Field (MMBO or BCFG)			
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)				F95	F50	F5	Mean
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean				
Oil Fields	6	1.00	285	2,035	5,948	2,437	599	4,336	13,619	5,365	34	252	843	322	98	511	2,062	708
Gas Fields	36						3,089	17,658	46,490	20,311	131	755	2,144	893	860	3,865	13,803	5,058
Total		1.00	285	2,035	5,948	2,437	3,688	21,994	60,109	25,677	165	1,007	2,986	1,215				

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**Forecast: Oil in Oil Fields**

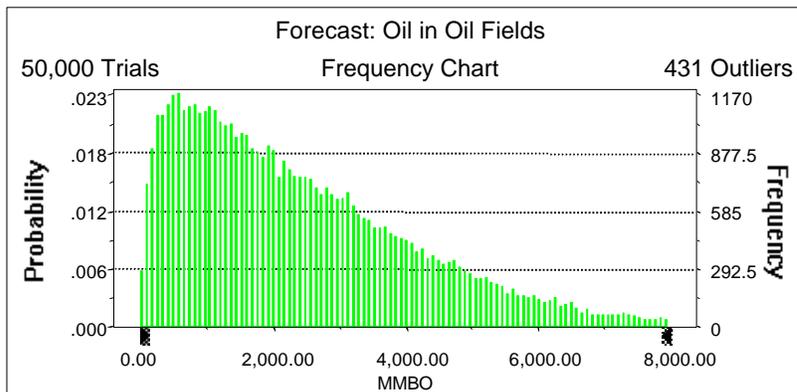
Summary:

Display range is from 0.00 to 8,000.00 MMBO

Entire range is from 6.56 to 12,907.66 MMBO

After 50,000 trials, the standard error of the mean is 8.08

Statistics:	Value
Trials	50000
Mean	2,437.15
Median	2,035.23
Mode	---
Standard Deviation	1,807.19
Variance	3,265,936.18
Skewness	1.05
Kurtosis	4.01
Coefficient of Variability	0.74
Range Minimum	6.56
Range Maximum	12,907.66
Range Width	12,901.11
Mean Standard Error	8.08



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**Forecast: Oil in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	6.56
95%	284.54
90%	470.03
85%	641.84
80%	823.94
75%	1,007.11
70%	1,190.08
65%	1,384.78
60%	1,589.66
55%	1,807.43
50%	2,035.23
45%	2,279.34
40%	2,545.27
35%	2,830.93
30%	3,136.58
25%	3,476.65
20%	3,878.87
15%	4,357.50
10%	4,972.52
5%	5,948.29
0%	12,907.66

End of Forecast

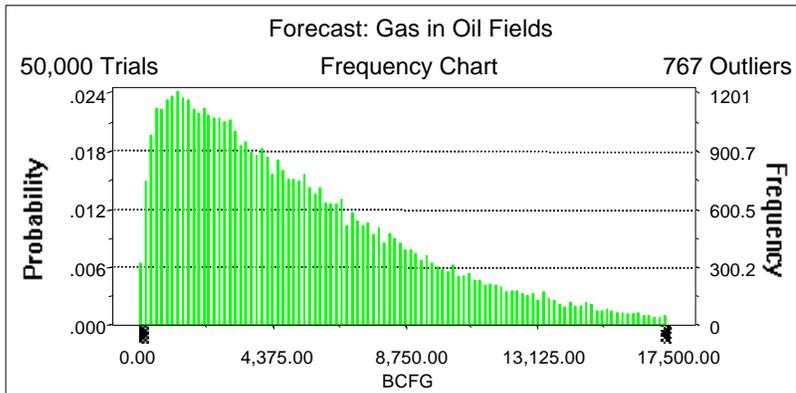
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**Monte Carlo Results**

**Forecast: Gas in Oil Fields**

Summary:

Display range is from 0.00 to 17,500.00 BCFG  
Entire range is from 12.33 to 37,118.24 BCFG  
After 50,000 trials, the standard error of the mean is 18.84

Statistics:	Value
Trials	50000
Mean	5,365.19
Median	4,336.11
Mode	---
Standard Deviation	4,212.15
Variance	17,742,203.95
Skewness	1.29
Kurtosis	5.04
Coefficient of Variability	0.79
Range Minimum	12.33
Range Maximum	37,118.24
Range Width	37,105.91
Mean Standard Error	18.84



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**Forecast: Gas in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	12.33
95%	599.39
90%	986.01
85%	1,350.60
80%	1,730.03
75%	2,124.65
70%	2,523.07
65%	2,935.78
60%	3,365.65
55%	3,844.26
50%	4,336.11
45%	4,881.37
40%	5,460.52
35%	6,077.72
30%	6,758.72
25%	7,563.96
20%	8,480.75
15%	9,622.38
10%	11,175.88
5%	13,618.86
0%	37,118.24

End of Forecast

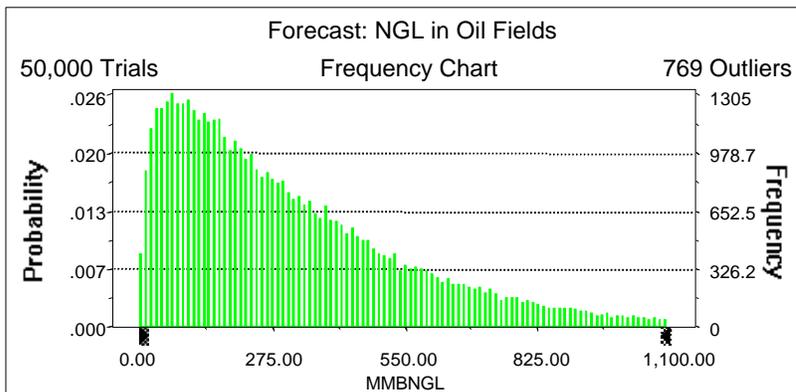
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**Forecast: NGL in Oil Fields**

Summary:

Display range is from 0.00 to 1,100.00 MMBNGL  
Entire range is from 0.49 to 2,530.71 MMBNGL  
After 50,000 trials, the standard error of the mean is 1.19

Statistics:	Value
Trials	50000
Mean	321.59
Median	252.06
Mode	---
Standard Deviation	265.71
Variance	70,599.20
Skewness	1.52
Kurtosis	6.30
Coefficient of Variability	0.83
Range Minimum	0.49
Range Maximum	2,530.71
Range Width	2,530.22
Mean Standard Error	1.19



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**Forecast: NGL in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.49
95%	34.08
90%	56.45
85%	77.90
80%	99.78
75%	121.94
70%	145.36
65%	169.55
60%	195.03
55%	222.75
50%	252.06
45%	284.50
40%	319.55
35%	358.23
30%	400.63
25%	448.61
20%	506.87
15%	582.47
10%	682.42
5%	842.73
0%	2,530.71

End of Forecast

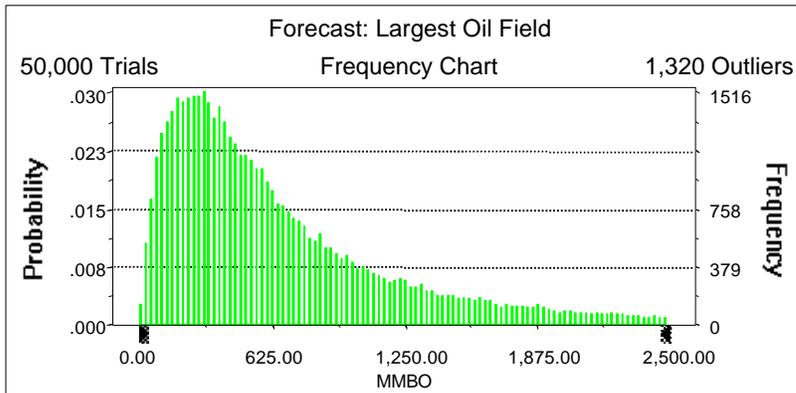
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**Monte Carlo Results**

**Forecast: Largest Oil Field**

Summary:

Display range is from 0.00 to 2,500.00 MMBO  
 Entire range is from 6.56 to 3,498.53 MMBO  
 After 50,000 trials, the standard error of the mean is 2.80

Statistics:	<u>Value</u>
Trials	50000
Mean	708.11
Median	510.79
Mode	---
Standard Deviation	625.52
Variance	391,280.01
Skewness	1.74
Kurtosis	6.17
Coefficient of Variability	0.88
Range Minimum	6.56
Range Maximum	3,498.53
Range Width	3,491.97
Mean Standard Error	2.80



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**Monte Carlo Results**

**Forecast: Largest Oil Field (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	6.56
95%	98.31
90%	147.41
85%	191.99
80%	234.29
75%	276.20
70%	318.00
65%	361.56
60%	407.19
55%	456.77
50%	510.79
45%	571.68
40%	637.25
35%	715.57
30%	808.22
25%	923.67
20%	1,071.65
15%	1,270.17
10%	1,562.43
5%	2,061.78
0%	3,498.53

End of Forecast

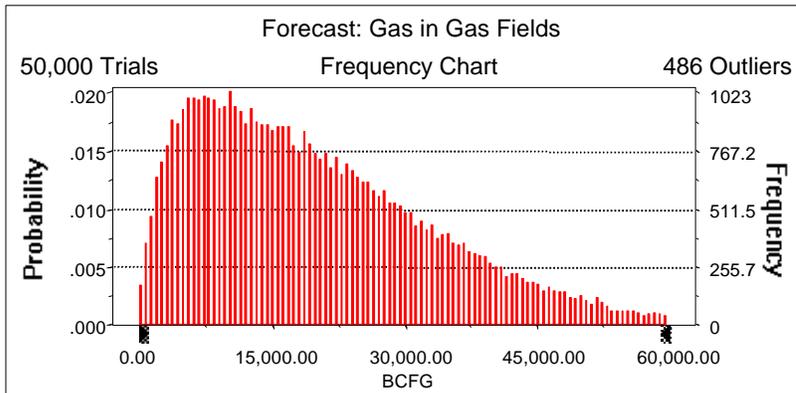
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**Monte Carlo Results**

**Forecast: Gas in Gas Fields**

Summary:

Display range is from 0.00 to 60,000.00 BCFG  
 Entire range is from 59.35 to 102,088.96 BCFG  
 After 50,000 trials, the standard error of the mean is 61.42

Statistics:	<u>Value</u>
Trials	50000
Mean	20,311.46
Median	17,657.61
Mode	---
Standard Deviation	13,734.58
Variance	188,638,653.17
Skewness	0.91
Kurtosis	3.65
Coefficient of Variability	0.68
Range Minimum	59.35
Range Maximum	102,088.96
Range Width	102,029.61
Mean Standard Error	61.42



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**Monte Carlo Results**

**Forecast: Gas in Gas Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	59.35
95%	3,089.02
90%	4,843.58
85%	6,381.72
80%	7,872.19
75%	9,396.31
70%	10,910.01
65%	12,550.67
60%	14,186.44
55%	15,918.08
50%	17,657.61
45%	19,567.33
40%	21,550.77
35%	23,714.02
30%	25,991.59
25%	28,584.95
20%	31,559.54
15%	35,084.58
10%	39,538.09
5%	46,490.09
0%	102,088.96

End of Forecast

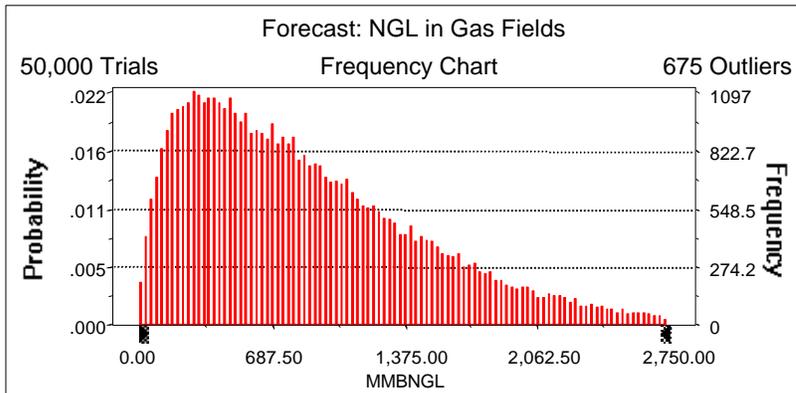
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**Monte Carlo Results**

**Forecast: NGL in Gas Fields**

Summary:

Display range is from 0.00 to 2,750.00 MMBNGL  
 Entire range is from 2.07 to 5,512.72 MMBNGL  
 After 50,000 trials, the standard error of the mean is 2.87

Statistics:	<u>Value</u>
Trials	50000
Mean	893.41
Median	755.04
Mode	---
Standard Deviation	641.50
Variance	411,522.65
Skewness	1.14
Kurtosis	4.50
Coefficient of Variability	0.72
Range Minimum	2.07
Range Maximum	5,512.72
Range Width	5,510.64
Mean Standard Error	2.87



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**Monte Carlo Results**

**Forecast: NGL in Gas Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	2.07
95%	130.67
90%	202.20
85%	268.52
80%	332.11
75%	397.14
70%	462.24
65%	529.51
60%	601.64
55%	677.30
50%	755.04
45%	834.91
40%	924.47
35%	1,021.62
30%	1,125.42
25%	1,245.64
20%	1,388.55
15%	1,553.77
10%	1,774.82
5%	2,143.77
0%	5,512.72

End of Forecast

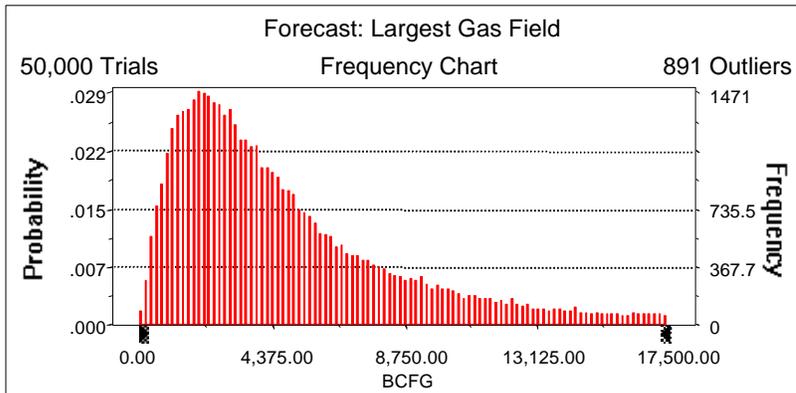
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**Forecast: Largest Gas Field**

Summary:

Display range is from 0.00 to 17,500.00 BCFG  
 Entire range is from 45.00 to 20,997.81 BCFG  
 After 50,000 trials, the standard error of the mean is 18.02

Statistics:	<u>Value</u>
Trials	50000
Mean	5,057.86
Median	3,865.39
Mode	---
Standard Deviation	4,029.01
Variance	16,232,951.43
Skewness	1.49
Kurtosis	5.10
Coefficient of Variability	0.80
Range Minimum	45.00
Range Maximum	20,997.81
Range Width	20,952.80
Mean Standard Error	18.02



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**Forecast: Largest Gas Field (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	45.00
95%	859.70
90%	1,240.65
85%	1,566.10
80%	1,880.51
75%	2,181.82
70%	2,484.51
65%	2,798.47
60%	3,126.01
55%	3,478.70
50%	3,865.39
45%	4,280.79
40%	4,741.41
35%	5,268.98
30%	5,892.42
25%	6,665.23
20%	7,646.95
15%	8,948.06
10%	10,714.34
5%	13,802.84
0%	20,997.81

End of Forecast

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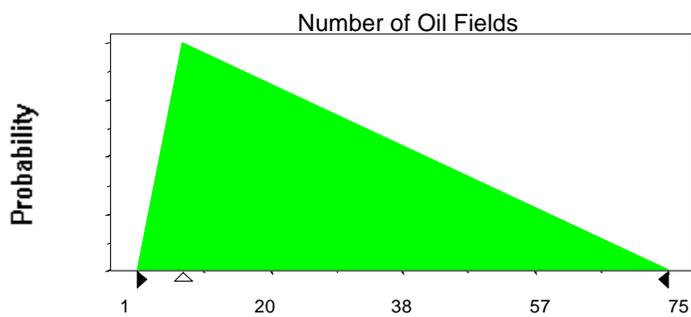
Assumptions

**Assumption: Number of Oil Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	7
Maximum	75

Selected range is from 1 to 75  
Mean value in simulation was 28



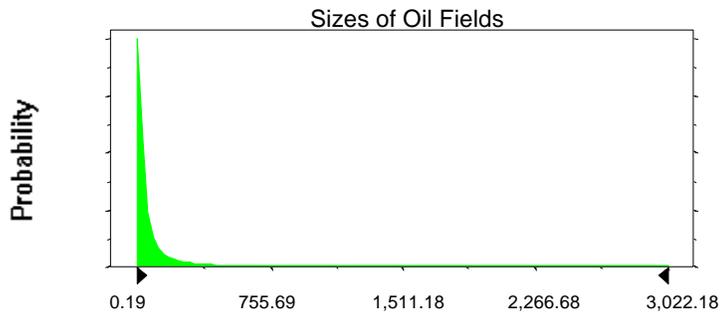
**Assumption: Sizes of Oil Fields**

Lognormal distribution with parameters:	Shifted parameters	
Mean	87.98	93.98
Standard Deviation	310.32	310.32

Selected range is from 0.00 to 3,494.00	6.00 to 3,500.00
Mean value in simulation was 81.72	87.72

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Assumption: Sizes of Oil Fields (cont'd)

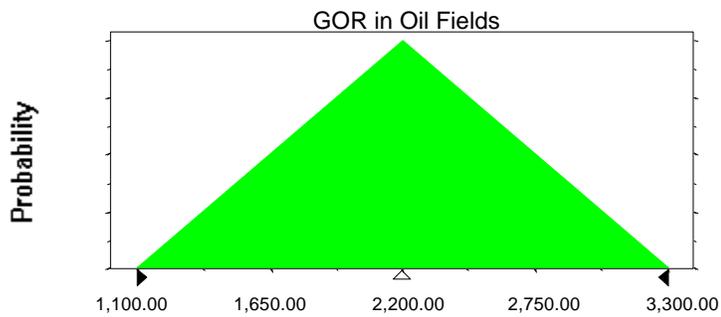


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,100.00
Likeliest	2,200.00
Maximum	3,300.00

Selected range is from 1,100.00 to 3,300.00  
Mean value in simulation was 2,200.12



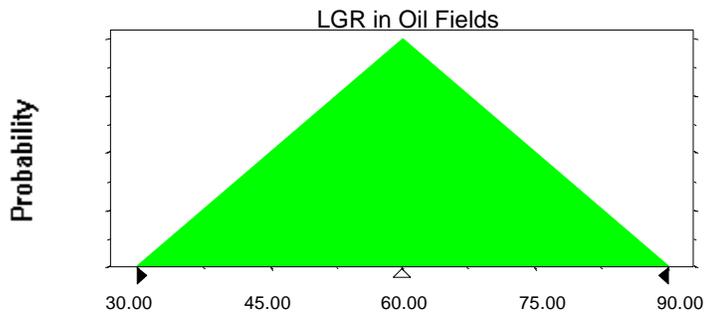
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**Assumption: LGR in Oil Fields**

Triangular distribution with parameters:

Minimum	30.00
Likeliest	60.00
Maximum	90.00

Selected range is from 30.00 to 90.00  
Mean value in simulation was 59.91



**Assumption: Number of Gas Fields**

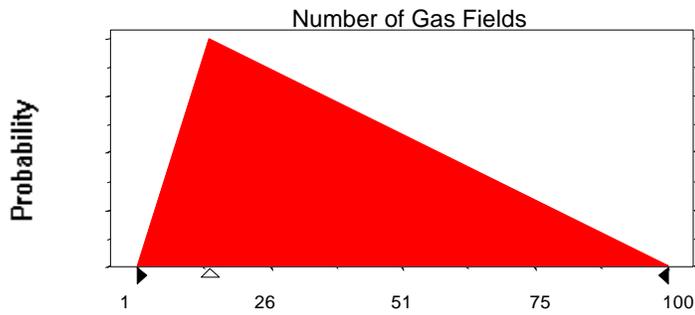
Triangular distribution with parameters:

Minimum	1
Likeliest	15
Maximum	100

Selected range is from 1 to 100  
Mean value in simulation was 38

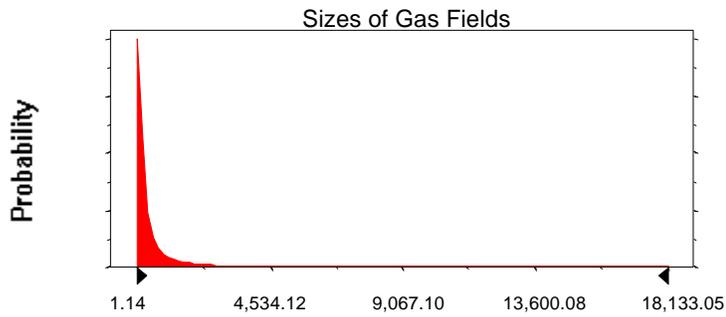
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Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:	Shifted parameters	
Mean	527.90	563.9
Standard Deviation	1,861.90	1,861.90
Selected range is from 0.00 to 20,964.00	36.00 to 21,000.00	
Mean value in simulation was 495.49	531.49	



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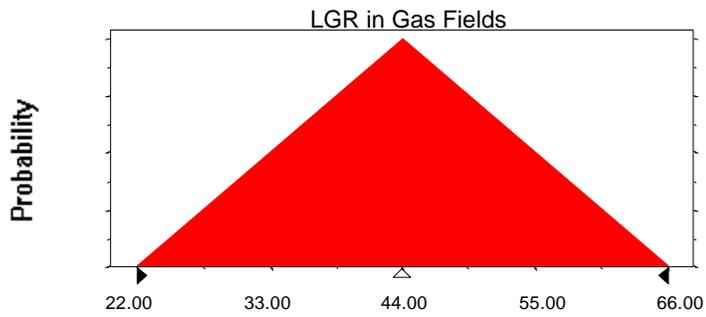
**Assumption: LGR in Gas Fields**

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00

Mean value in simulation was 44.02



End of Assumptions

Simulation started on 11/17/99 at 16:14:10  
Simulation stopped on 11/17/99 at 17:00:16