

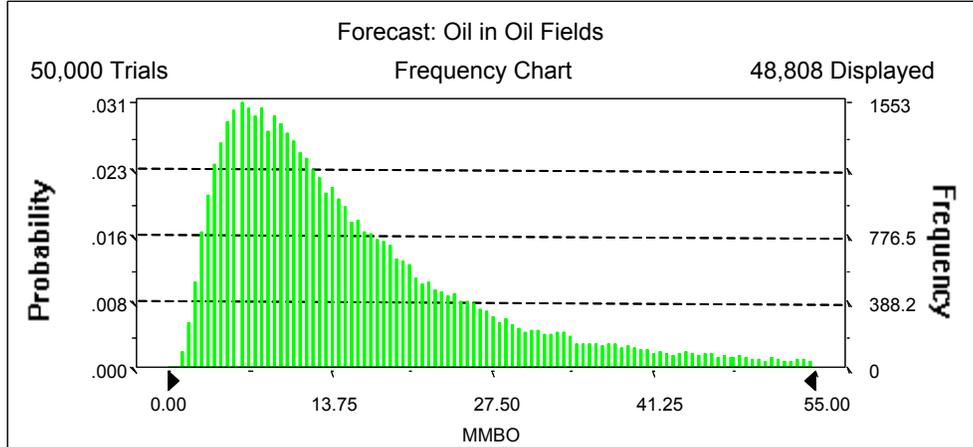
50370101  
Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Oil in Oil Fields**

Summary:

Display range is from 0.00 to 55.00 MMBO  
Entire range is from 1.17 to 163.97 MMBO  
After 50,000 trials, the standard error of the mean is 0.06

Statistics:	Value
Trials	50000
Mean	16.65
Median	12.70
Mode	---
Standard Deviation	13.71
Variance	187.92
Skewness	2.37
Kurtosis	11.46
Coefficient of Variability	0.82
Range Minimum	1.17
Range Maximum	163.97
Range Width	162.80
Mean Standard Error	0.06



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

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	1.17
95%	3.76
90%	4.87
85%	5.81
80%	6.70
75%	7.62
70%	8.55
65%	9.49
60%	10.48
55%	11.54
50%	12.70
45%	13.99
40%	15.36
35%	16.99
30%	18.80
25%	20.95
20%	23.80
15%	27.34
10%	33.04
5%	43.60
0%	163.97

End of Forecast

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**Forecast: Gas in Oil Fields**

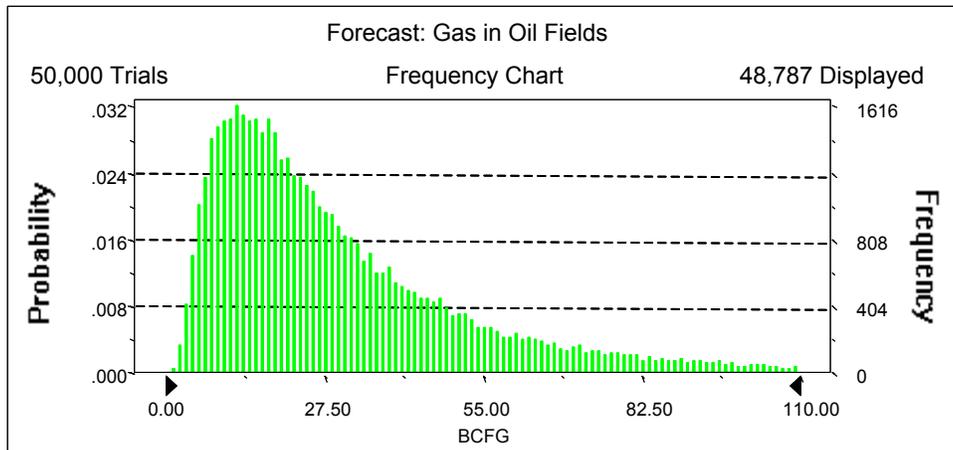
Summary:

Display range is from 0.00 to 110.00 BCFG

Entire range is from 1.38 to 376.73 BCFG

After 50,000 trials, the standard error of the mean is 0.12

Statistics:	Value
Trials	50000
Mean	32.23
Median	24.03
Mode	---
Standard Deviation	27.94
Variance	780.71
Skewness	2.59
Kurtosis	13.68
Coefficient of Variability	0.87
Range Minimum	1.38
Range Maximum	376.73
Range Width	375.36
Mean Standard Error	0.12



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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	1.38
95%	6.74
90%	8.82
85%	10.66
80%	12.43
75%	14.17
70%	15.97
65%	17.80
60%	19.64
55%	21.76
50%	24.03
45%	26.48
40%	29.26
35%	32.45
30%	36.13
25%	40.67
20%	46.37
15%	53.46
10%	64.82
5%	85.88
0%	376.73

End of Forecast

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Monte Carlo Results

**Forecast: NGL in Oil Fields**

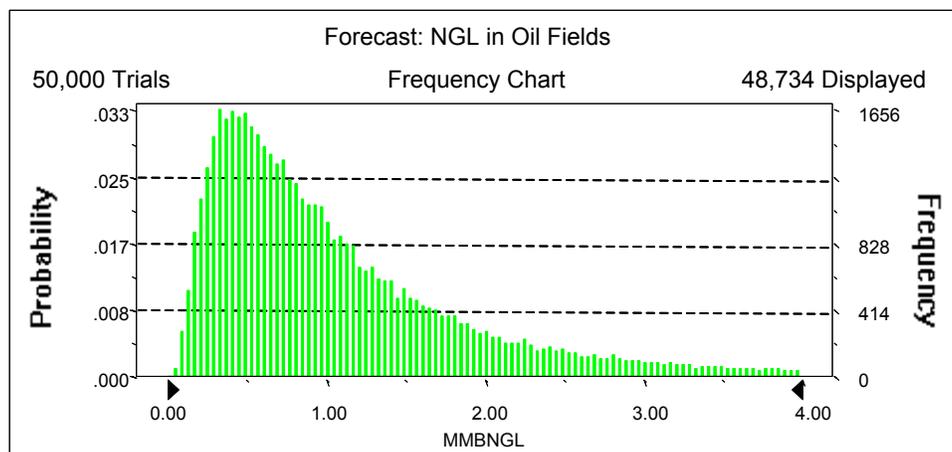
Summary:

Display range is from 0.00 to 4.00 MMBNGL

Entire range is from 0.04 to 19.01 MMBNGL

After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.16
Median	0.85
Mode	---
Standard Deviation	1.06
Variance	1.11
Skewness	2.84
Kurtosis	16.91
Coefficient of Variability	0.91
Range Minimum	0.04
Range Maximum	19.01
Range Width	18.98
Mean Standard Error	0.00



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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.04
95%	0.23
90%	0.30
85%	0.36
80%	0.43
75%	0.49
70%	0.55
65%	0.62
60%	0.69
55%	0.76
50%	0.85
45%	0.94
40%	1.04
35%	1.15
30%	1.29
25%	1.46
20%	1.67
15%	1.94
10%	2.37
5%	3.16
0%	19.01

End of Forecast

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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Oil Field**

Summary:

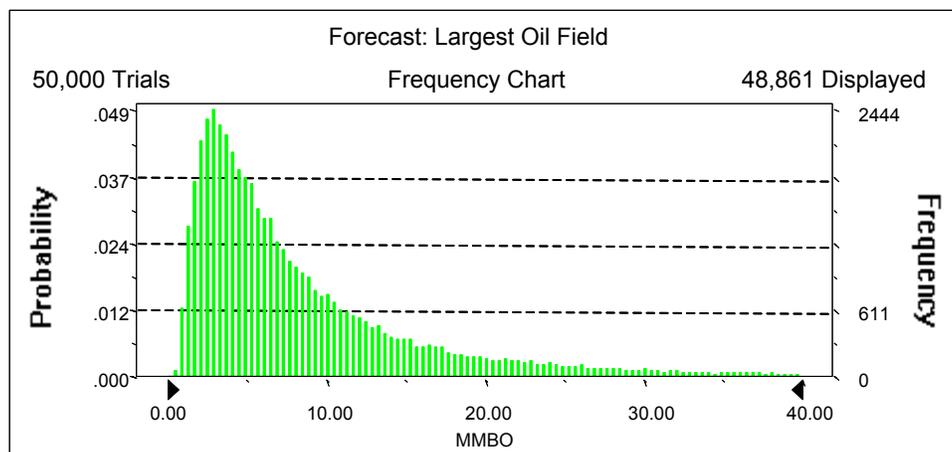
Display range is from 0.00 to 40.00 MMBO

Entire range is from 0.62 to 89.87 MMBO

After 50,000 trials, the standard error of the mean is 0.05

Statistics:

	<u>Value</u>
Trials	50000
Mean	9.44
Median	6.13
Mode	---
Standard Deviation	10.14
Variance	102.81
Skewness	3.10
Kurtosis	16.25
Coefficient of Variability	1.07
Range Minimum	0.62
Range Maximum	89.87
Range Width	89.26
Mean Standard Error	0.05



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

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.62
95%	1.70
90%	2.21
85%	2.65
80%	3.05
75%	3.49
70%	3.93
65%	4.41
60%	4.94
55%	5.50
50%	6.13
45%	6.83
40%	7.67
35%	8.65
30%	9.84
25%	11.30
20%	13.18
15%	15.87
10%	20.24
5%	28.74
0%	89.87

End of Forecast

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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Gas in Gas Fields**

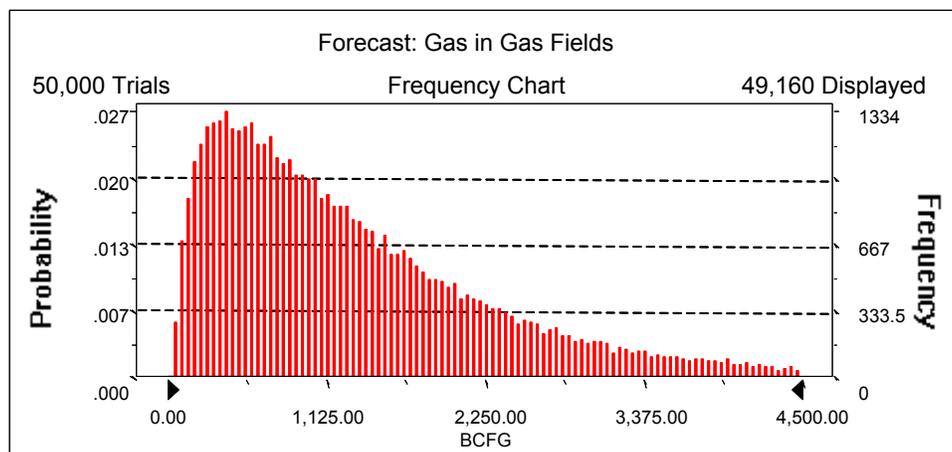
Summary:

Display range is from 0.00 to 4,500.00 BCFG

Entire range is from 32.94 to 8,858.76 BCFG

After 50,000 trials, the standard error of the mean is 4.76

Statistics:	Value
Trials	50000
Mean	1,350.66
Median	1,068.99
Mode	---
Standard Deviation	1,064.59
Variance	1,133,343.63
Skewness	1.55
Kurtosis	6.20
Coefficient of Variability	0.79
Range Minimum	32.94
Range Maximum	8,858.76
Range Width	8,825.83
Mean Standard Error	4.76



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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	32.94
95%	206.24
90%	300.96
85%	388.39
80%	474.88
75%	564.43
70%	655.40
65%	749.86
60%	851.69
55%	958.62
50%	1,068.99
45%	1,193.74
40%	1,326.62
35%	1,473.50
30%	1,642.57
25%	1,836.28
20%	2,071.11
15%	2,366.67
10%	2,778.69
5%	3,480.04
0%	8,858.76

End of Forecast

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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Forecast: NGL in Gas Fields**

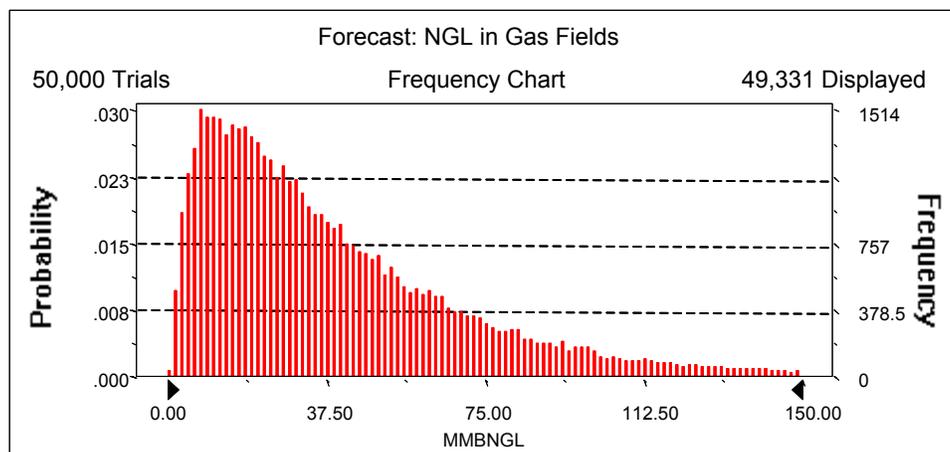
Summary:

Display range is from 0.00 to 150.00 MMBNGL

Entire range is from 0.88 to 324.55 MMBNGL

After 50,000 trials, the standard error of the mean is 0.15

Statistics:	Value
Trials	50000
Mean	40.57
Median	31.20
Mode	---
Standard Deviation	33.70
Variance	1,135.36
Skewness	1.78
Kurtosis	7.63
Coefficient of Variability	0.83
Range Minimum	0.88
Range Maximum	324.55
Range Width	323.66
Mean Standard Error	0.15



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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.88
95%	5.86
90%	8.60
85%	11.11
80%	13.67
75%	16.31
70%	19.01
65%	21.74
60%	24.67
55%	27.90
50%	31.20
45%	34.93
40%	39.04
35%	43.62
30%	48.85
25%	54.88
20%	62.43
15%	71.56
10%	84.43
5%	107.16
0%	324.55

End of Forecast

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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Gas Field**

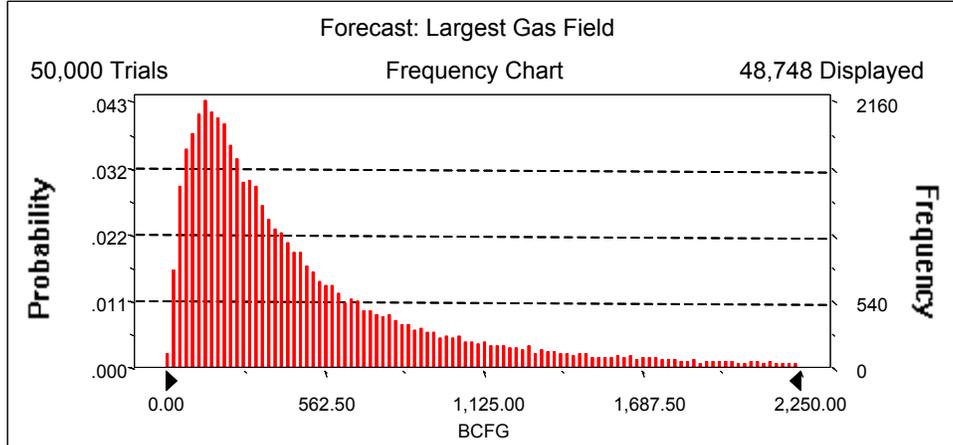
Summary:

Display range is from 0.00 to 2,250.00 BCFG

Entire range is from 9.49 to 3,595.26 BCFG

After 50,000 trials, the standard error of the mean is 2.52

Statistics:	Value
Trials	50000
Mean	541.65
Median	347.53
Mode	---
Standard Deviation	562.75
Variance	316,688.02
Skewness	2.28
Kurtosis	9.10
Coefficient of Variability	1.04
Range Minimum	9.49
Range Maximum	3,595.26
Range Width	3,585.77
Mean Standard Error	2.52



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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	9.49
95%	69.23
90%	100.13
85%	128.31
80%	154.63
75%	181.86
70%	209.60
65%	239.43
60%	272.09
55%	309.16
50%	347.53
45%	394.26
40%	446.39
35%	507.91
30%	584.18
25%	679.32
20%	801.75
15%	969.72
10%	1,236.14
5%	1,734.86
0%	3,595.26

End of Forecast

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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

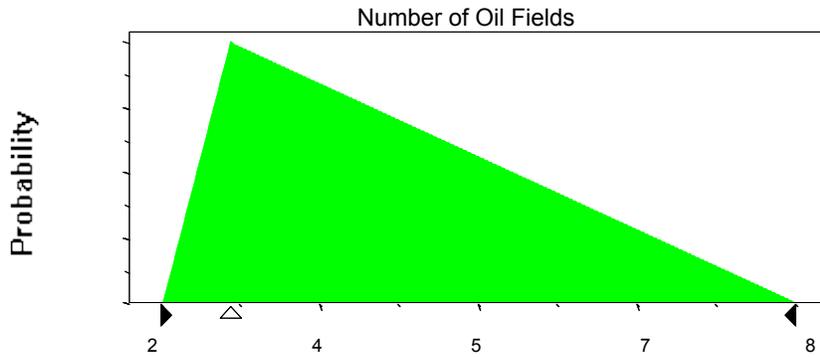
**Assumptions**

**Assumption: Number of Oil Fields**

Triangular distribution with parameters:

Minimum	2
Likeliest	3
Maximum	8

Selected range is from 2 to 8



**Assumption: Sizes of Oil Fields**

Lognormal distribution with parameters:

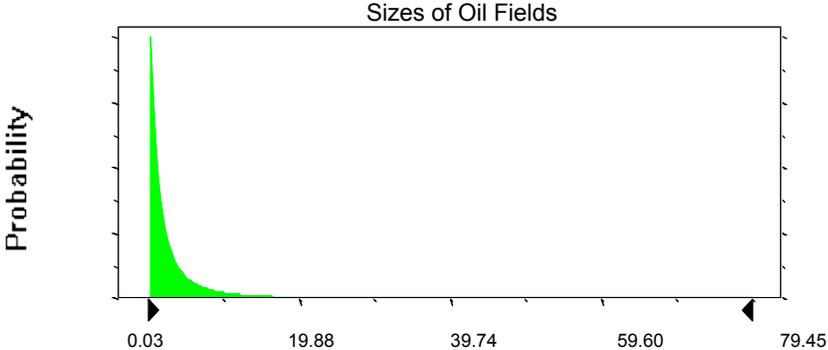
Mean	3.60	Shifted parameters	4.10
Standard Deviation	7.85		7.85

Selected range is from 0.00 to 89.50

0.50 to 90.00

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Monte Carlo Results

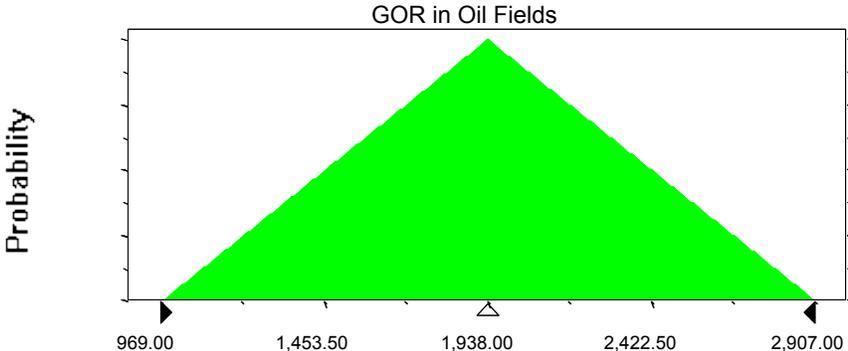
**Assumption: Sizes of Oil Fields (cont'd)**



**Assumption: GOR in Oil Fields**

Triangular distribution with parameters:  
Minimum 969.00  
Likeliest 1,938.00  
Maximum 2,907.00

Selected range is from 969.00 to 2,907.00



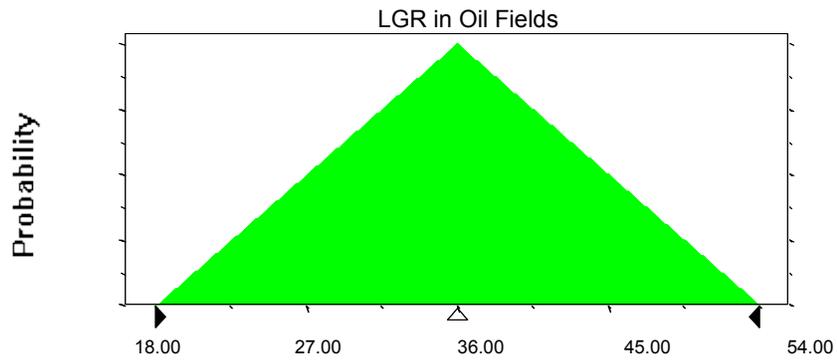
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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Assumption: LGR in Oil Fields**

Triangular distribution with parameters:

Minimum	18.00
Likeliest	36.00
Maximum	54.00

Selected range is from 18.00 to 54.00



**Assumption: Number of Gas Fields**

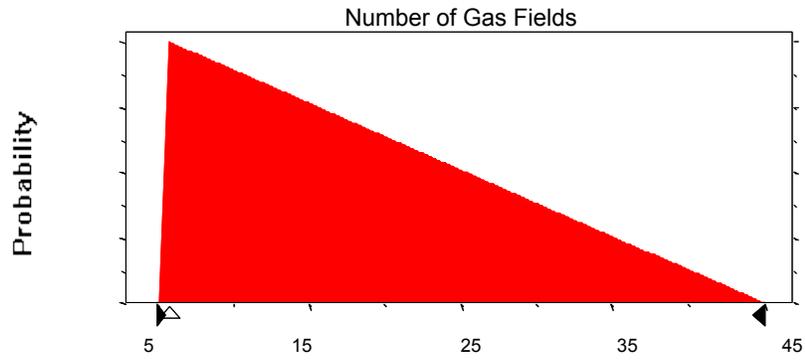
Triangular distribution with parameters:

Minimum	5
Likeliest	6
Maximum	45

Selected range is from 5 to 45

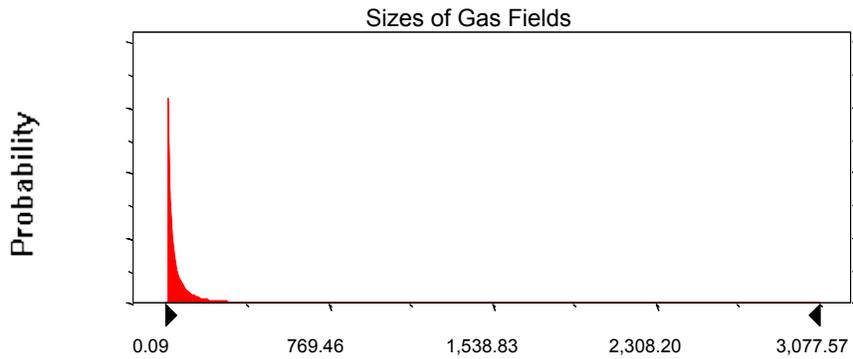
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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Assumption: Number of Gas Fields (cont'd)**



**Assumption: Sizes of Gas Fields**

Lognormal distribution with parameters:	Shifted parameters	
Mean	76.30	79.30
Standard Deviation	333.84	333.84
Selected range is from 0.00 to 3,597.00	3.00 to 3,600.00	



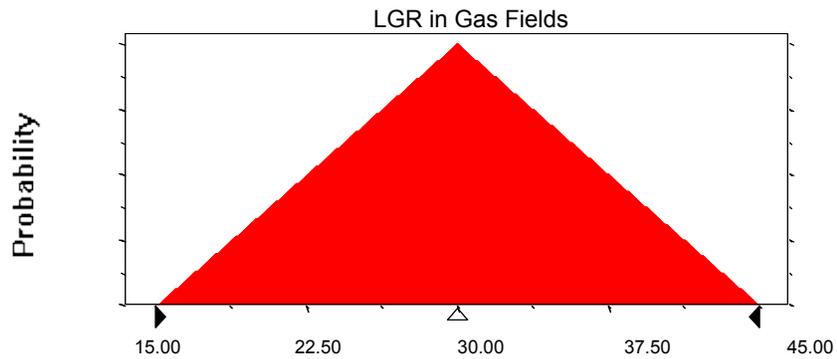
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Sub-Cretaceous Conventional Oil and Gas  
Monte Carlo Results

**Assumption: LGR in Gas Fields**

Triangular distribution with parameters:

Minimum	15.00
Likeliest	30.00
Maximum	45.00

Selected range is from 15.00 to 45.00



End of Assumptions

Simulation started on 8/27/02 at 15:12:46  
Simulation stopped on 8/27/02 at 15:29:05



***Click here to return to***  
**Chapter 28**