

50370201
Mowry Conventional Oil and Gas
Monte Carlo Results

Forecast: Oil in Oil Fields

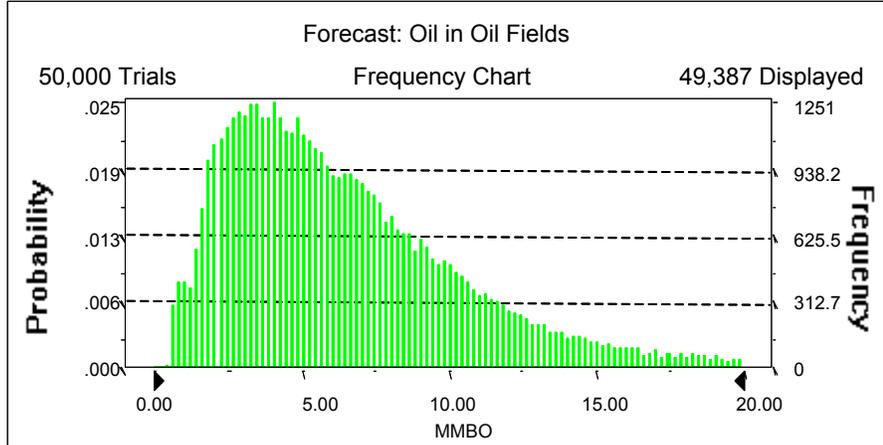
Summary:

Display range is from 0.00 to 20.00 MMBO

Entire range is from 0.55 to 37.17 MMBO

After 50,000 trials, the standard error of the mean is 0.02

Statistics:	Value
Trials	50000
Mean	6.63
Median	5.68
Mode	---
Standard Deviation	4.25
Variance	18.09
Skewness	1.43
Kurtosis	6.15
Coefficient of Variability	0.64
Range Minimum	0.55
Range Maximum	37.17
Range Width	36.62
Mean Standard Error	0.02



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.55
95%	1.72
90%	2.22
85%	2.67
80%	3.08
75%	3.50
70%	3.91
65%	4.32
60%	4.76
55%	5.21
50%	5.68
45%	6.21
40%	6.76
35%	7.33
30%	7.97
25%	8.72
20%	9.60
15%	10.67
10%	12.16
5%	14.81
0%	37.17

End of Forecast

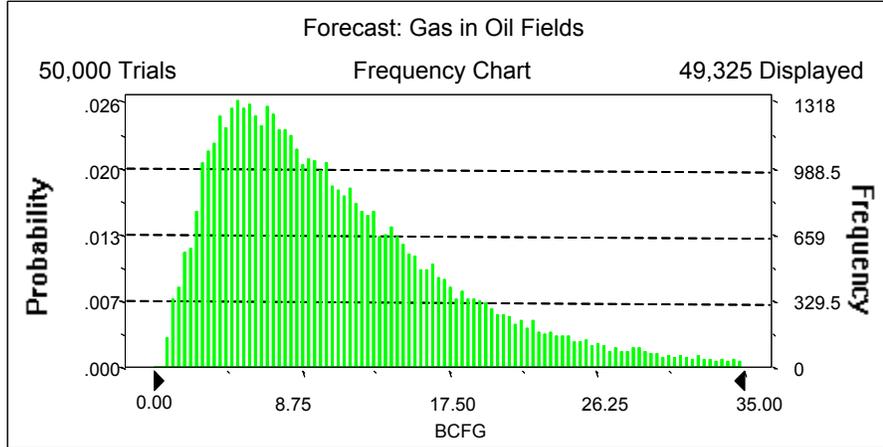
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 35.00 BCFG
Entire range is from 0.64 to 86.09 BCFG
After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	11.15
Median	9.36
Mode	---
Standard Deviation	7.63
Variance	58.15
Skewness	1.62
Kurtosis	7.31
Coefficient of Variability	0.68
Range Minimum	0.64
Range Maximum	86.09
Range Width	85.45
Mean Standard Error	0.03



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.64
95%	2.65
90%	3.52
85%	4.27
80%	4.97
75%	5.64
70%	6.33
65%	7.03
60%	7.75
55%	8.51
50%	9.36
45%	10.22
40%	11.17
35%	12.20
30%	13.33
25%	14.66
20%	16.24
15%	18.27
10%	21.05
5%	25.88
0%	86.09

End of Forecast

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Forecast: NGL in Oil Fields

Summary:

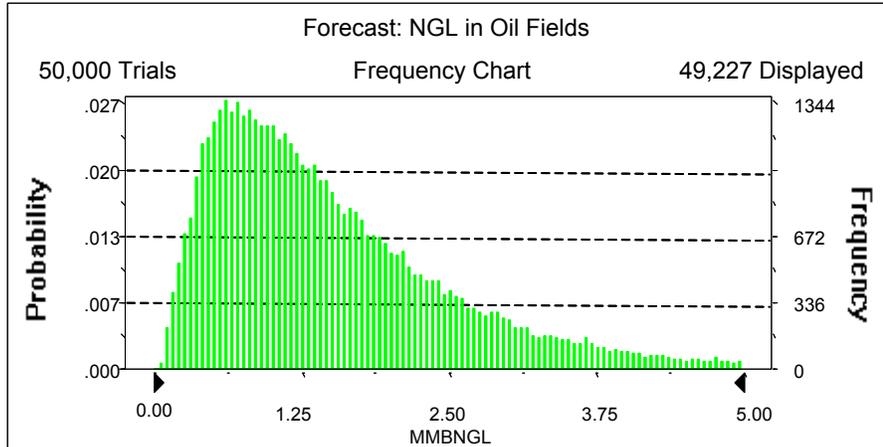
Display range is from 0.00 to 5.00 MMBNGL

Entire range is from 0.06 to 16.09 MMBNGL

After 50,000 trials, the standard error of the mean is 0.01

Statistics:

	<u>Value</u>
Trials	50000
Mean	1.56
Median	1.28
Mode	---
Standard Deviation	1.13
Variance	1.28
Skewness	1.82
Kurtosis	8.83
Coefficien of Variability	0.72
Range Minimum	0.06
Range Maximum	16.09
Range Width	16.02
Mean Standard Error	0.01



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.06
95%	0.34
90%	0.46
85%	0.57
80%	0.66
75%	0.75
70%	0.85
65%	0.95
60%	1.06
55%	1.16
50%	1.28
45%	1.40
40%	1.54
35%	1.69
30%	1.86
25%	2.05
20%	2.29
15%	2.59
10%	3.01
5%	3.74
0%	16.09

End of Forecast

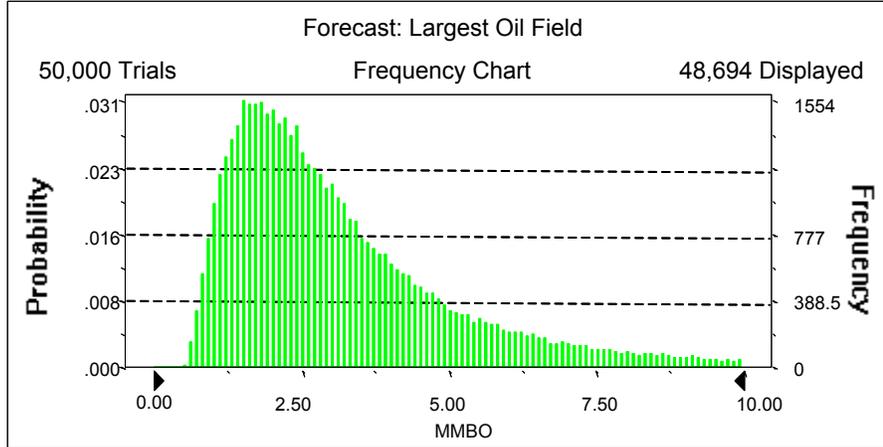
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Mowry Conventional Oil and Gas
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Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 10.00 MMBO
Entire range is from 0.55 to 19.97 MMBO
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	3.38
Median	2.69
Mode	---
Standard Deviation	2.42
Variance	5.85
Skewness	2.29
Kurtosis	10.46
Coefficient of Variability	0.72
Range Minimum	0.55
Range Maximum	19.97
Range Width	19.42
Mean Standard Error	0.01



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.55
95%	1.07
90%	1.29
85%	1.48
80%	1.64
75%	1.80
70%	1.97
65%	2.13
60%	2.31
55%	2.49
50%	2.69
45%	2.91
40%	3.15
35%	3.42
30%	3.75
25%	4.13
20%	4.61
15%	5.28
10%	6.26
5%	8.11
0%	19.97

End of Forecast

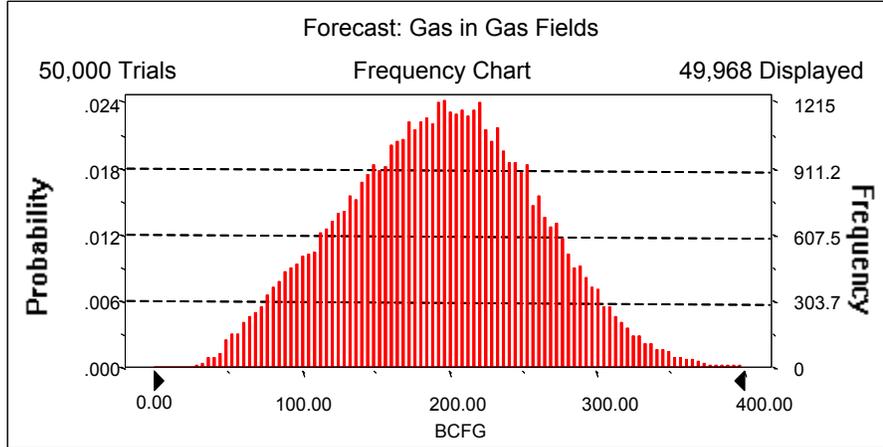
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Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 400.00 BCFG
Entire range is from 23.67 to 471.52 BCFG
After 50,000 trials, the standard error of the mean is 0.29

Statistics:	Value
Trials	50000
Mean	195.15
Median	196.27
Mode	---
Standard Deviation	65.23
Variance	4,254.38
Skewness	0.04
Kurtosis	2.66
Coefficient of Variability	0.33
Range Minimum	23.67
Range Maximum	471.52
Range Width	447.85
Mean Standard Error	0.29



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	23.67
95%	85.75
90%	107.06
85%	123.48
80%	137.19
75%	148.87
70%	159.87
65%	169.70
60%	178.68
55%	187.67
50%	196.27
45%	204.75
40%	213.31
35%	221.81
30%	230.98
25%	240.62
20%	251.46
15%	263.62
10%	279.08
5%	301.41
0%	471.52

End of Forecast

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Forecast: NGL in Gas Fields

Summary:

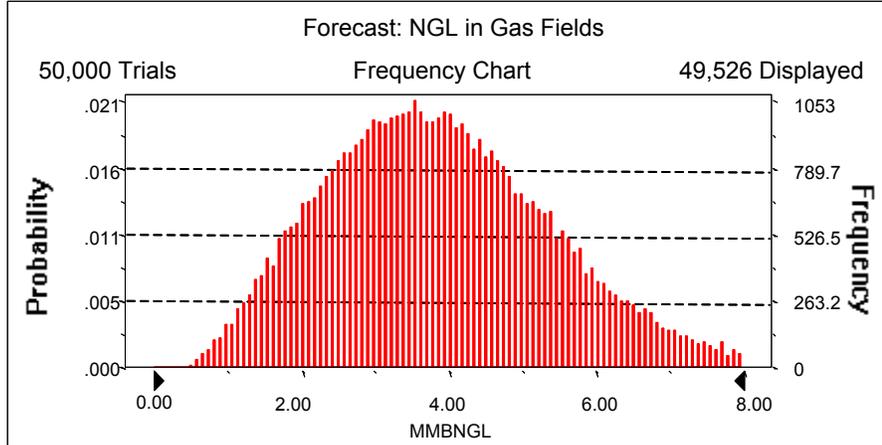
Display range is from 0.00 to 8.00 MMBNGL

Entire range is from 0.38 to 11.88 MMBNGL

After 50,000 trials, the standard error of the mean is 0.01

Statistics:

	<u>Value</u>
Trials	50000
Mean	3.90
Median	3.78
Mode	---
Standard Deviation	1.55
Variance	2.41
Skewness	0.46
Kurtosis	3.05
Coefficient of Variability	0.40
Range Minimum	0.38
Range Maximum	11.88
Range Width	11.51
Mean Standard Error	0.01



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.38
95%	1.56
90%	1.96
85%	2.26
80%	2.53
75%	2.76
70%	2.98
65%	3.19
60%	3.39
55%	3.58
50%	3.78
45%	3.99
40%	4.19
35%	4.41
30%	4.64
25%	4.90
20%	5.20
15%	5.54
10%	5.97
5%	6.67
0%	11.88

End of Forecast

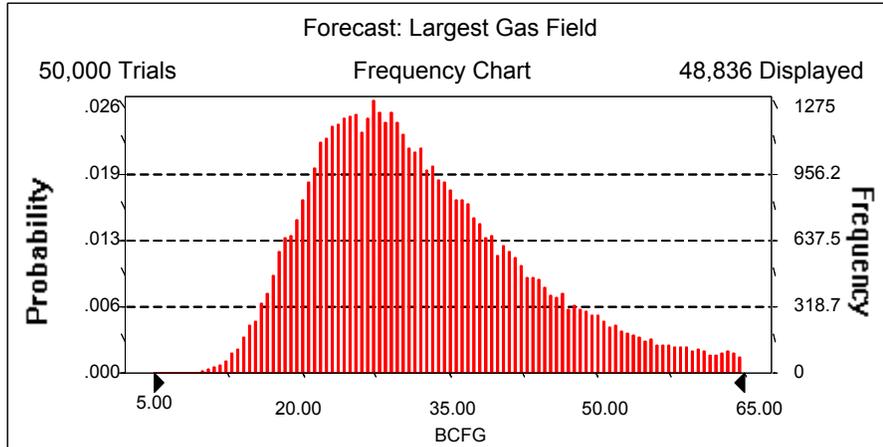
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Forecast: Largest Gas Field

Summary:

Display range is from 5.00 to 65.00 BCFG
Entire range is from 7.70 to 80.00 BCFG
After 50,000 trials, the standard error of the mean is 0.05

Statistics:	Value
Trials	50000
Mean	33.17
Median	30.74
Mode	---
Standard Deviation	12.08
Variance	145.93
Skewness	1.05
Kurtosis	4.12
Coefficient of Variability	0.36
Range Minimum	7.70
Range Maximum	80.00
Range Width	72.30
Mean Standard Error	0.05



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	7.70
95%	17.90
90%	20.16
85%	21.83
80%	23.17
75%	24.47
70%	25.72
65%	26.99
60%	28.19
55%	29.45
50%	30.74
45%	32.16
40%	33.67
35%	35.34
30%	37.17
25%	39.35
20%	41.90
15%	45.17
10%	49.73
5%	57.45
0%	80.00

End of Forecast

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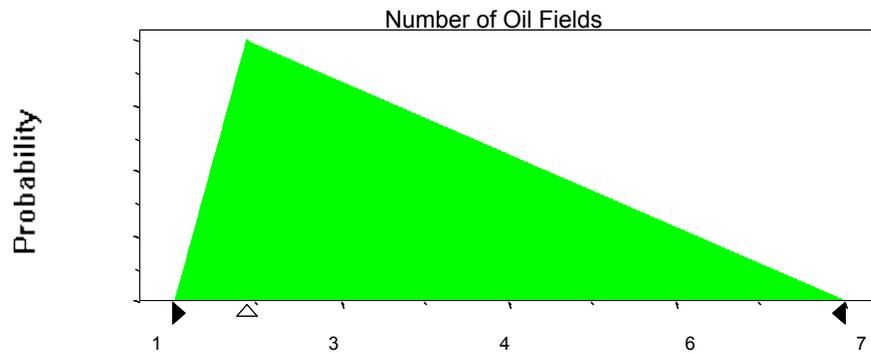
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	7

Selected range is from 1 to 7



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

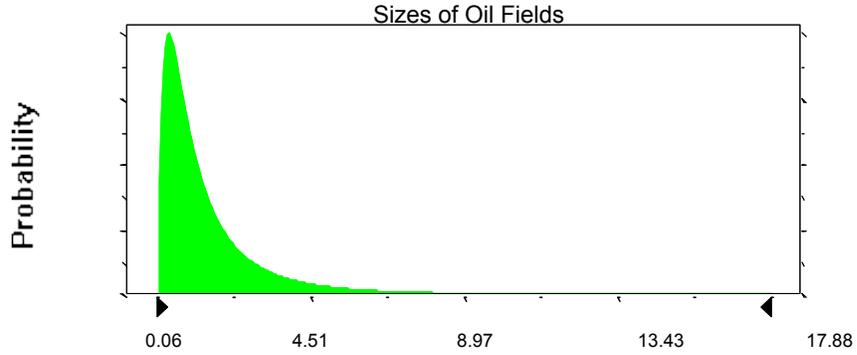
Mean	1.59	Shifted parameters	2.09
Standard Deviation	1.96		1.96

Selected range is from 0.00 to 19.50

0.50 to 20.00

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Assumption: Sizes of Oil Fields (cont'd)

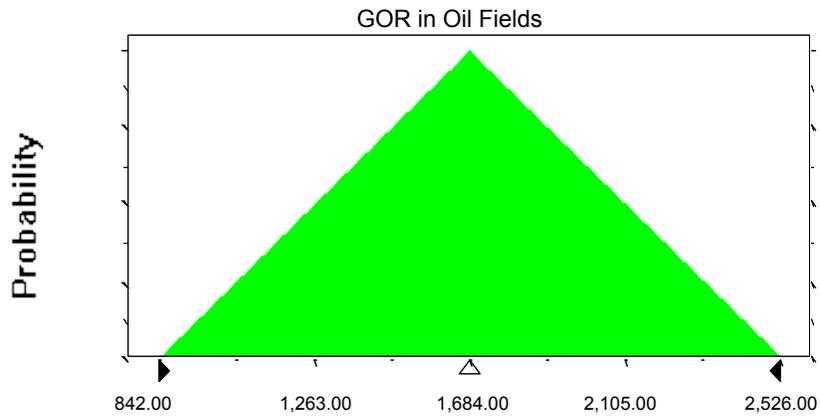


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	842.00
Likeliest	1,684.00
Maximum	2,526.00

Selected range is from 842.00 to 2,526.00



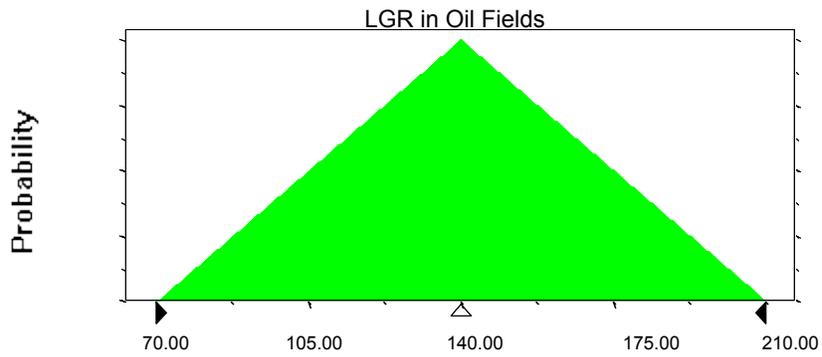
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Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	70.00
Likeliest	140.00
Maximum	210.00

Selected range is from 70.00 to 210.00



Assumption: Number of Gas Fields

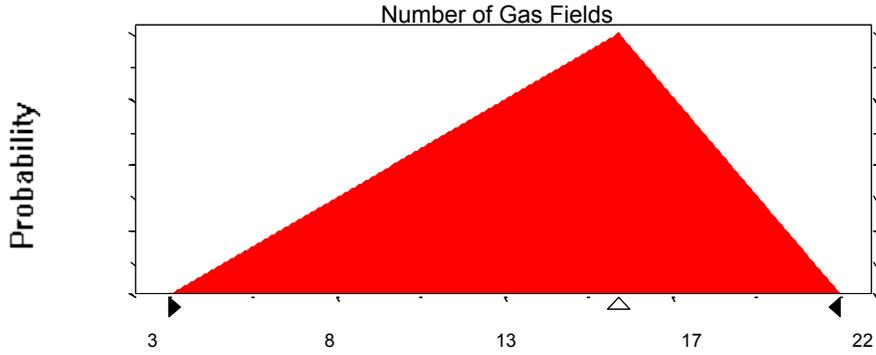
Triangular distribution with parameters:

Minimum	3
Likeliest	16
Maximum	22

Selected range is from 3 to 22

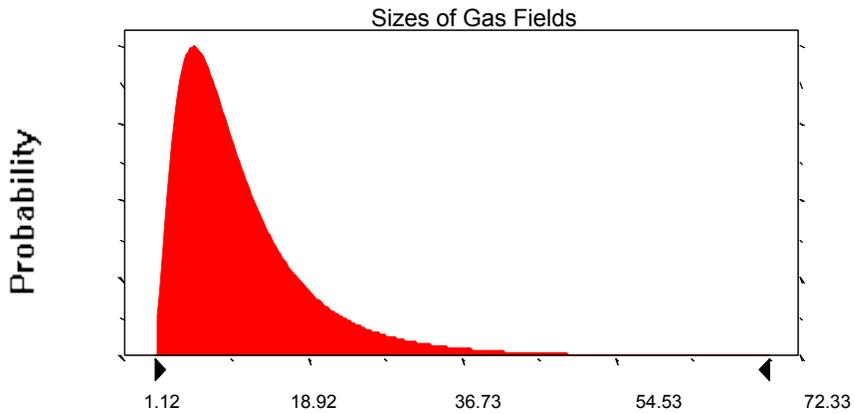
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Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:	Shifted parameters	
Mean	11.46	14.46
Standard Deviation	9.02	9.02
Selected range is from 0.00 to 77.00	3.00 to 80.00	



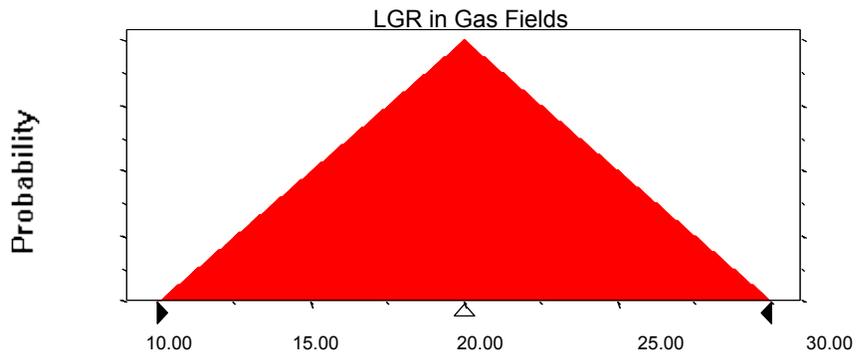
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Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	10.00
Likeliest	20.00
Maximum	30.00

Selected range is from 10.00 to 30.00



End of Assumptions

Simulation started on 8/27/02 at 15:34:46
Simulation stopped on 8/27/02 at 15:48:47



Click here to return to
Chapter 28