

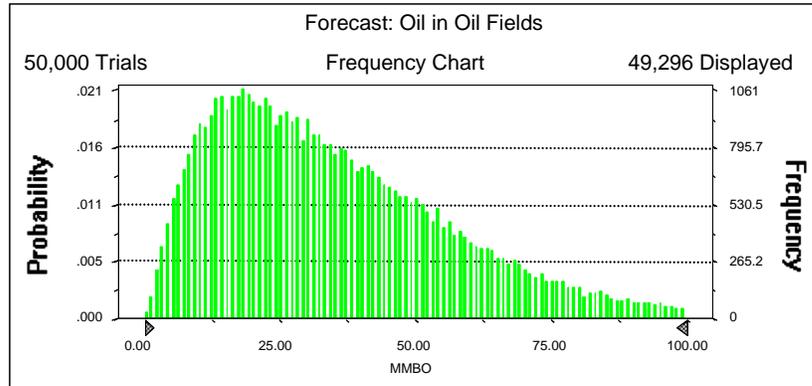
50300201
Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 100.00 MMBO
Entire range is from 0.51 to 184.30 MMBO
After 50,000 trials, the standard error of the mean is 0.10

Statistics:	Value
Trials	50000
Mean	35.65
Median	31.10
Mode	---
Standard Deviation	22.91
Variance	524.68
Skewness	1.07
Kurtosis	4.38
Coefficient of Variability	0.64
Range Minimum	0.51
Range Maximum	184.30
Range Width	183.79
Mean Standard Error	0.10



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Mesozoic-Cenozoic Conventional Oil and Gas
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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.51
95%	7.30
90%	10.44
85%	13.17
80%	15.64
75%	18.08
70%	20.48
65%	22.96
60%	25.61
55%	28.30
50%	31.10
45%	34.06
40%	37.26
35%	40.73
30%	44.39
25%	48.63
20%	53.41
15%	59.17
10%	66.95
5%	79.38
0%	184.30

End of Forecast

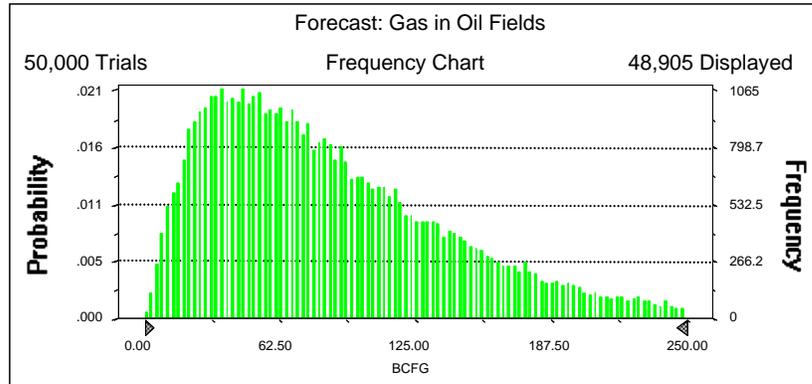
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 250.00 BCFG
Entire range is from 1.15 to 598.86 BCFG
After 50,000 trials, the standard error of the mean is 0.27

Statistics:	Value
Trials	50000
Mean	89.18
Median	75.32
Mode	---
Standard Deviation	61.42
Variance	3,772.27
Skewness	1.33
Kurtosis	5.57
Coefficient of Variability	0.69
Range Minimum	1.15
Range Maximum	598.86
Range Width	597.71
Mean Standard Error	0.27



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Mesozoic-Cenozoic Conventional Oil and Gas
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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	1.15
95%	17.28
90%	24.76
85%	31.11
80%	37.08
75%	43.30
70%	49.36
65%	55.35
60%	61.84
55%	68.47
50%	75.32
45%	82.84
40%	90.73
35%	99.71
30%	109.66
25%	120.45
20%	134.05
15%	149.87
10%	171.89
5%	207.56
0%	598.86

End of Forecast

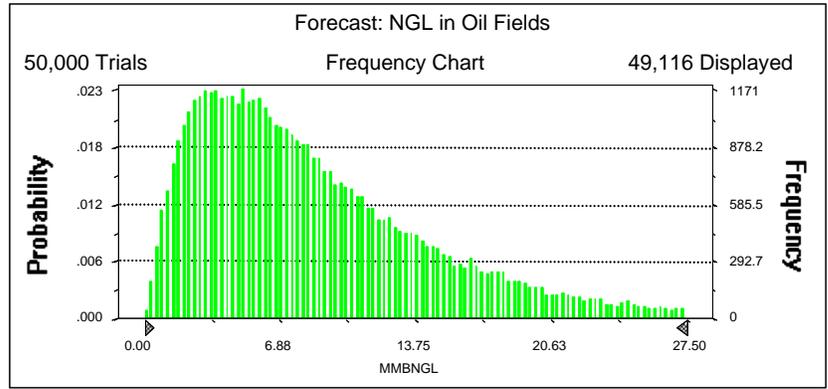
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 27.50 MMBNGL
Entire range is from 0.09 to 67.84 MMBNGL
After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	8.91
Median	7.32
Mode	---
Standard Deviation	6.53
Variance	42.59
Skewness	1.56
Kurtosis	6.79
Coefficient of Variability	0.73
Range Minimum	0.09
Range Maximum	67.84
Range Width	67.75
Mean Standard Error	0.03



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Mesozoic-Cenozoic Conventional Oil and Gas
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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.09
95%	1.62
90%	2.34
85%	2.95
80%	3.55
75%	4.14
70%	4.75
65%	5.36
60%	5.97
55%	6.63
50%	7.32
45%	8.07
40%	8.86
35%	9.78
30%	10.79
25%	11.97
20%	13.40
15%	15.15
10%	17.64
5%	21.61
0%	67.84

End of Forecast

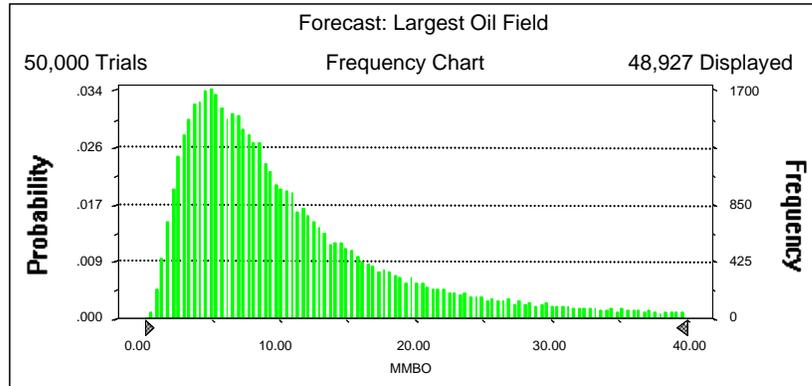
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 40.00 MMBO
Entire range is from 0.51 to 59.96 MMBO
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	Value
Trials	50000
Mean	11.27
Median	8.43
Mode	---
Standard Deviation	9.29
Variance	86.33
Skewness	2.01
Kurtosis	7.89
Coefficient of Variability	0.82
Range Minimum	0.51
Range Maximum	59.96
Range Width	59.45
Mean Standard Error	0.04



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Mesozoic-Cenozoic Conventional Oil and Gas
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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.51
95%	2.43
90%	3.21
85%	3.86
80%	4.48
75%	5.07
70%	5.67
65%	6.32
60%	6.98
55%	7.68
50%	8.43
45%	9.25
40%	10.24
35%	11.31
30%	12.60
25%	14.22
20%	16.17
15%	18.89
10%	23.09
5%	30.59
0%	59.96

End of Forecast

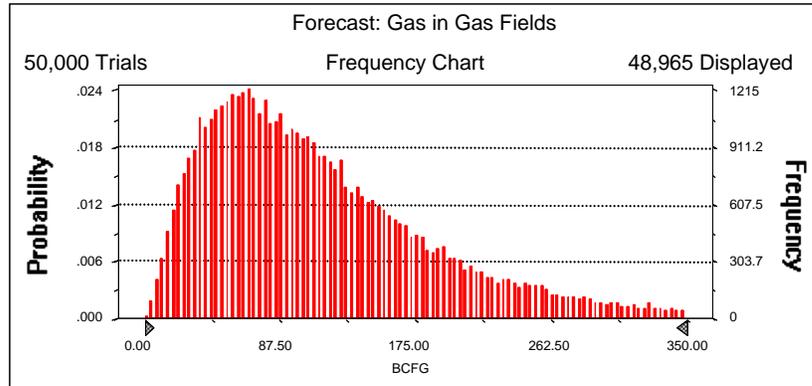
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 350.00 BCFG
Entire range is from 3.11 to 775.87 BCFG
After 50,000 trials, the standard error of the mean is 0.37

Statistics:	Value
Trials	50000
Mean	118.08
Median	98.83
Mode	---
Standard Deviation	82.57
Variance	6,818.24
Skewness	1.61
Kurtosis	6.92
Coefficient of Variability	0.70
Range Minimum	3.11
Range Maximum	775.87
Range Width	772.76
Mean Standard Error	0.37



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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.11
95%	25.04
90%	35.38
85%	43.73
80%	51.66
75%	59.25
70%	66.55
65%	73.96
60%	81.88
55%	90.15
50%	98.83
45%	107.90
40%	117.62
35%	128.35
30%	140.82
25%	154.92
20%	171.72
15%	193.98
10%	225.41
5%	278.47
0%	775.87

End of Forecast

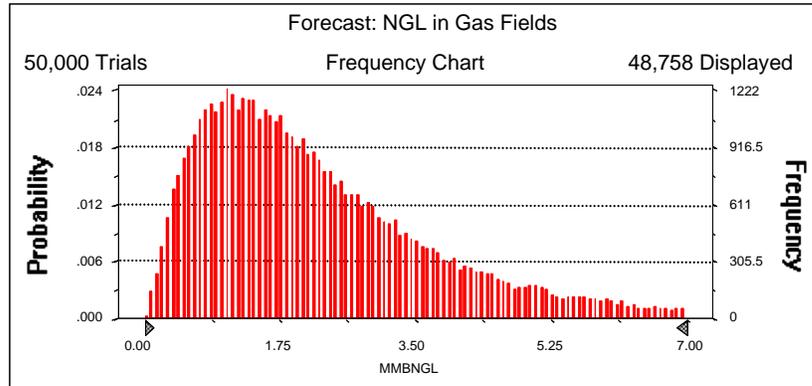
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 7.00 MMBNGL
Entire range is from 0.05 to 19.59 MMBNGL
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	2.36
Median	1.92
Mode	---
Standard Deviation	1.76
Variance	3.08
Skewness	1.83
Kurtosis	8.48
Coefficient of Variability	0.74
Range Minimum	0.05
Range Maximum	19.59
Range Width	19.54
Mean Standard Error	0.01



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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.05
95%	0.46
90%	0.66
85%	0.83
80%	0.98
75%	1.13
70%	1.28
65%	1.43
60%	1.59
55%	1.75
50%	1.92
45%	2.11
40%	2.31
35%	2.54
30%	2.80
25%	3.09
20%	3.45
15%	3.92
10%	4.58
5%	5.77
0%	19.59

End of Forecast

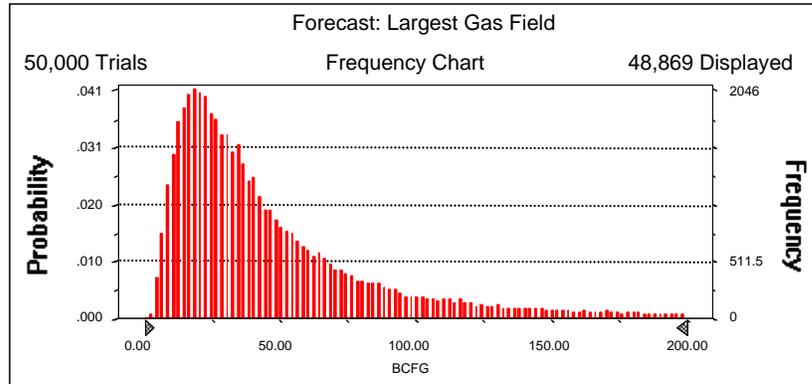
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 200.00 BCFG
Entire range is from 3.11 to 359.16 BCFG
After 50,000 trials, the standard error of the mean is 0.21

Statistics:	Value
Trials	50000
Mean	50.68
Median	35.38
Mode	---
Standard Deviation	48.07
Variance	2,310.94
Skewness	2.58
Kurtosis	11.65
Coefficient of Variability	0.95
Range Minimum	3.11
Range Maximum	359.16
Range Width	356.05
Mean Standard Error	0.21



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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.11
95%	10.20
90%	13.37
85%	16.02
80%	18.49
75%	20.94
70%	23.43
65%	26.15
60%	28.98
55%	32.08
50%	35.38
45%	38.98
40%	43.13
35%	48.24
30%	54.30
25%	61.67
20%	71.18
15%	84.77
10%	105.95
5%	146.58
0%	359.16

End of Forecast

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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

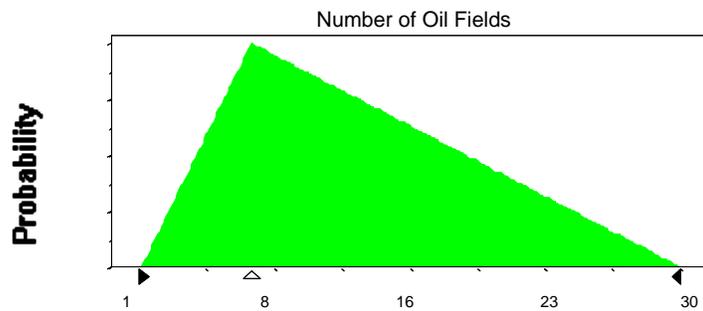
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	7
Maximum	30

Selected range is from 1 to 30



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

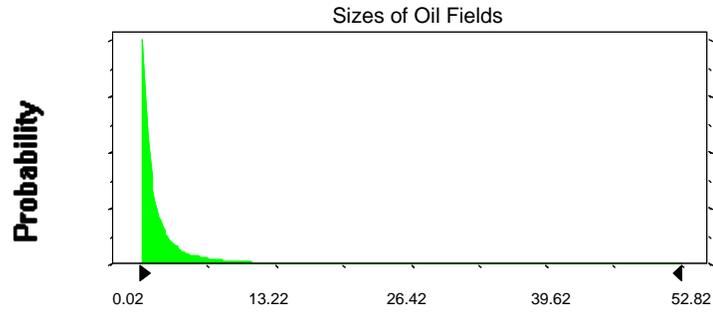
Mean	2.40	Shifted parameters	2.90
Standard Deviation	5.22		5.22

Selected range is from 0.00 to 59.50

0.50 to 60.00

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Assumption: Sizes of Oil Fields (cont'd)

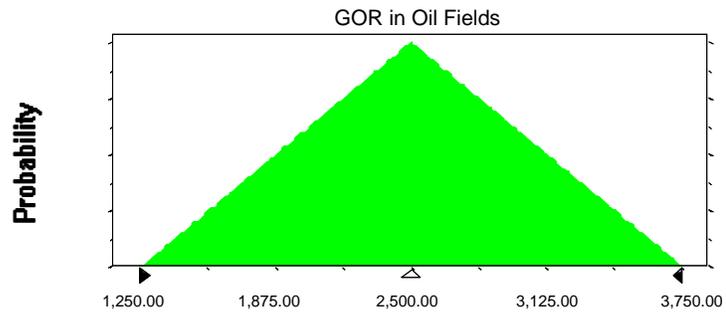


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,250.00
Likeliest	2,500.00
Maximum	3,750.00

Selected range is from 1,250.00 to 3,750.00



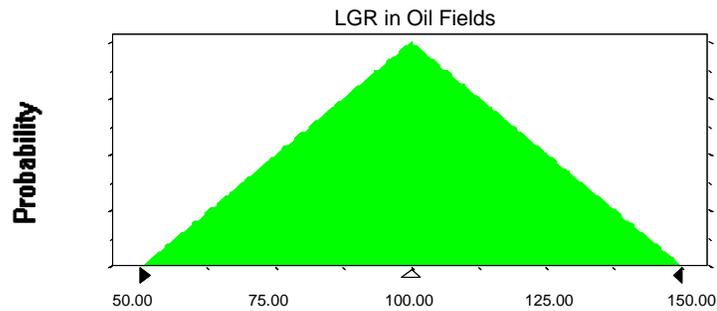
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Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	50.00
Likeliest	100.00
Maximum	150.00

Selected range is from 50.00 to 150.00



Assumption: Number of Gas Fields

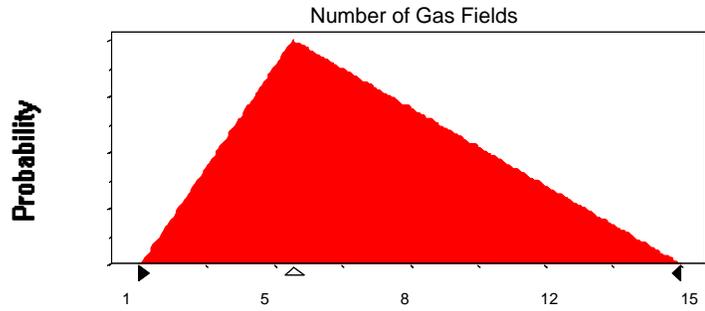
Triangular distribution with parameters:

Minimum	1
Likeliest	5
Maximum	15

Selected range is from 1 to 15

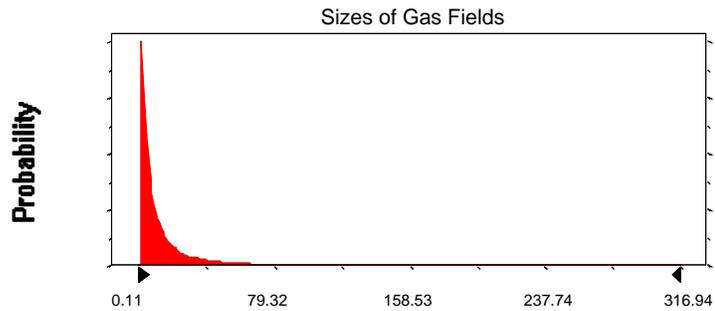
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Mesozoic-Cenozoic Conventional Oil and Gas
Monte Carlo Results

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	14.38	17.38
Standard Deviation	31.33	31.33
Selected range is from 0.00 to 357.00		3.00 to 360



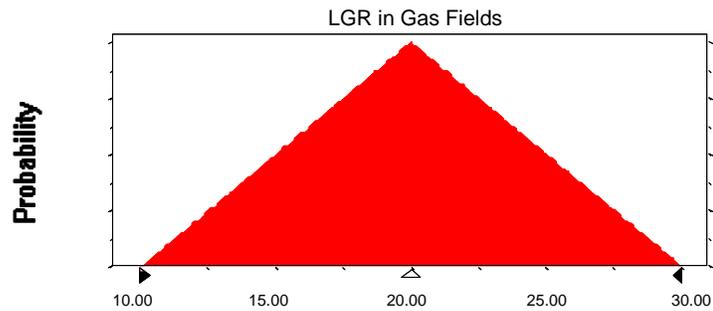
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Mesozoic-Cenozoic Conventional Oil and Gas
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Assumption: LGR in Gas Fields

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 4/20/05 at 16:54:42

Simulation stopped on 4/20/05 at 16:56:28



***Click here to return to
Chapter 3***