

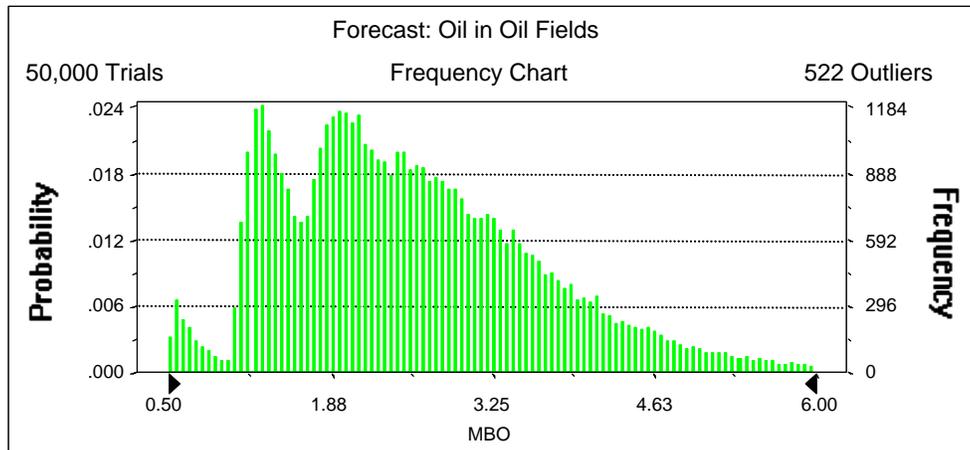
50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.50 to 6.00 MBO
Entire range is from 0.51 to 11.29 MBO
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	2.59
Median	2.42
Mode	---
Standard Deviation	1.14
Variance	1.30
Skewness	0.96
Kurtosis	4.58
Coefficient of Variability	0.44
Range Minimum	0.51
Range Maximum	11.29
Range Width	10.78
Mean Standard Error	0.01



50390201
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Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.51
95%	1.16
90%	1.29
85%	1.41
80%	1.58
75%	1.77
70%	1.90
65%	2.02
60%	2.14
55%	2.27
50%	2.42
45%	2.56
40%	2.72
35%	2.88
30%	3.05
25%	3.25
20%	3.47
15%	3.73
10%	4.10
5%	4.68
0%	11.29

End of Forecast

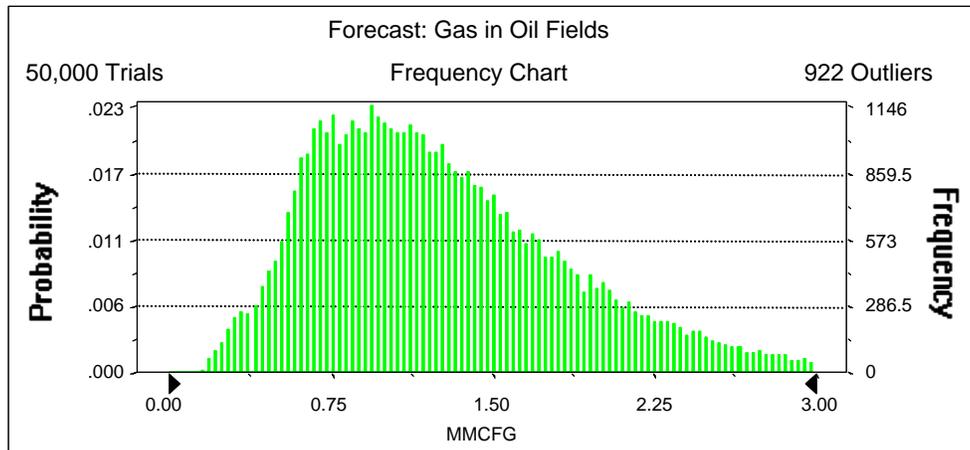
50390201
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Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 3.00 MMCFG
Entire range is from 0.15 to 6.45 MMCFG
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.30
Median	1.18
Mode	---
Standard Deviation	0.64
Variance	0.41
Skewness	1.15
Kurtosis	5.08
Coefficient of Variability	0.49
Range Minimum	0.15
Range Maximum	6.45
Range Width	6.30
Mean Standard Error	0.00



50390201
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Monte Carlo Results

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMCFG</u>
100%	0.15
95%	0.49
90%	0.60
85%	0.68
80%	0.75
75%	0.83
70%	0.90
65%	0.97
60%	1.03
55%	1.11
50%	1.18
45%	1.26
40%	1.34
35%	1.43
30%	1.52
25%	1.64
20%	1.77
15%	1.93
10%	2.14
5%	2.49
0%	6.45

End of Forecast

50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

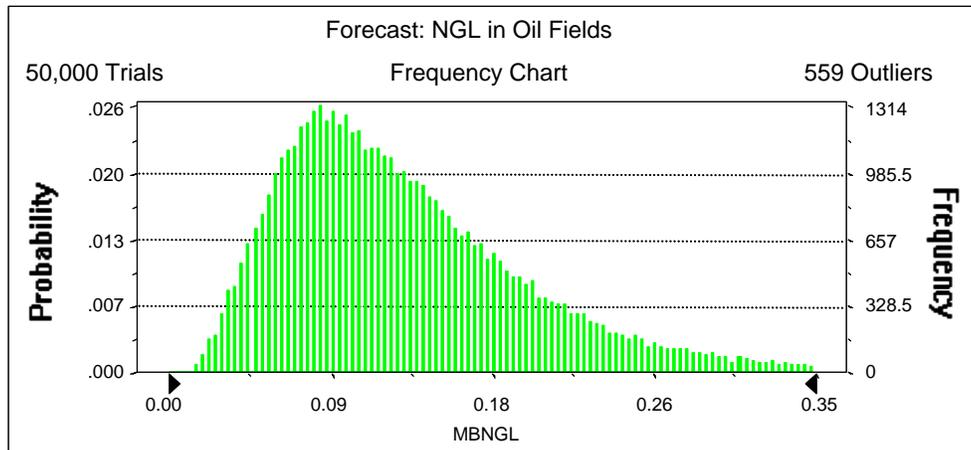
Display range is from 0.00 to 0.35 MBNGL

Entire range is from 0.01 to 0.66 MBNGL

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

Statistics:

	<u>Value</u>
Trials	50000
Mean	0.13
Median	0.11
Mode	---
Standard Deviation	0.07
Variance	0.00
Skewness	1.34
Kurtosis	5.87
Coefficient of Variability	0.54
Range Minimum	0.01
Range Maximum	0.66
Range Width	0.65
Mean Standard Error	0.00



50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBNGL</u>
100%	0.01
95%	0.04
90%	0.06
85%	0.06
80%	0.07
75%	0.08
70%	0.09
65%	0.09
60%	0.10
55%	0.11
50%	0.11
45%	0.12
40%	0.13
35%	0.14
30%	0.15
25%	0.16
20%	0.18
15%	0.20
10%	0.22
5%	0.26
0%	0.66

End of Forecast

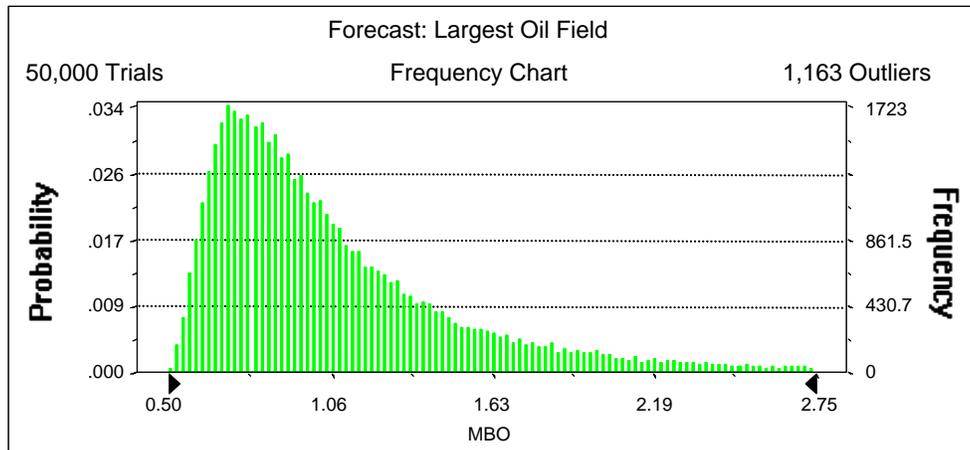
50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.50 to 2.75 MBO
Entire range is from 0.51 to 4.99 MBO
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.12
Median	0.96
Mode	---
Standard Deviation	0.55
Variance	0.31
Skewness	2.50
Kurtosis	11.76
Coefficient of Variability	0.49
Range Minimum	0.51
Range Maximum	4.99
Range Width	4.48
Mean Standard Error	0.00



50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.51
95%	0.62
90%	0.67
85%	0.70
80%	0.73
75%	0.77
70%	0.80
65%	0.84
60%	0.87
55%	0.91
50%	0.96
45%	1.01
40%	1.06
35%	1.12
30%	1.19
25%	1.28
20%	1.39
15%	1.53
10%	1.76
5%	2.20
0%	4.99

End of Forecast

50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: G-Risk Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	0.00
45%	0.00
40%	1.31
35%	1.66
30%	1.97
25%	2.24
20%	2.56
15%	2.92
10%	3.36
5%	3.99
0%	9.45

End of Forecast

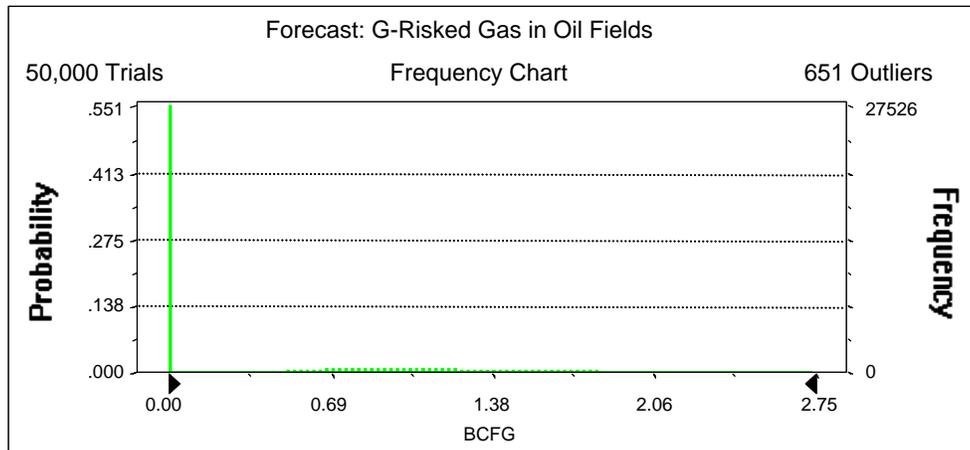
50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 2.75 BCFG
Entire range is from 0.00 to 5.78 BCFG
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	<u>Value</u>
Trials	50000
Mean	0.58
Median	0.00
Mode	0.00
Standard Deviation	0.77
Variance	0.59
Skewness	1.26
Kurtosis	4.19
Coefficient of Variability	1.33
Range Minimum	0.00
Range Maximum	5.78
Range Width	5.78
Mean Standard Error	0.00



50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: G-Risk Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	0.00
45%	0.00
40%	0.62
35%	0.78
30%	0.94
25%	1.09
20%	1.26
15%	1.45
10%	1.70
5%	2.08
0%	5.78

End of Forecast

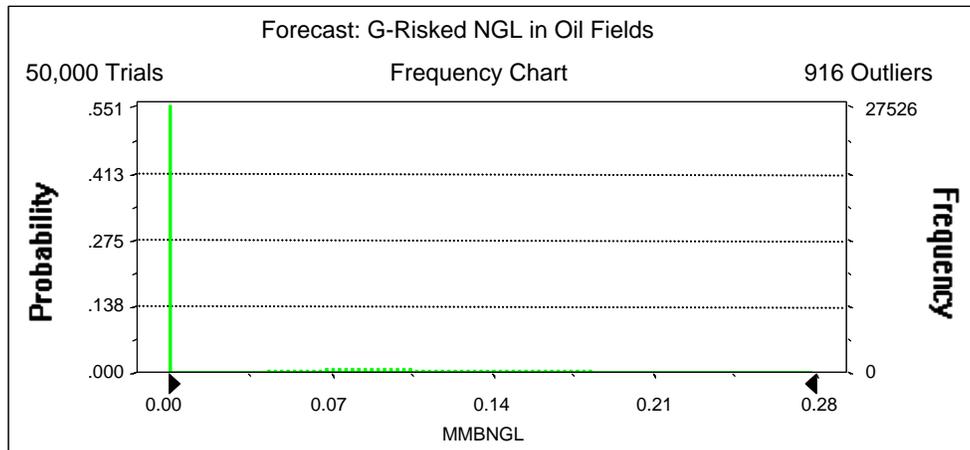
50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: G-Risked NGL in Oil Fields

Summary:

Display range is from 0.00 to 0.28 MMBNGL
Entire range is from 0.00 to 0.63 MMBNGL
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	<u>Value</u>
Trials	50000
Mean	0.06
Median	0.00
Mode	0.00
Standard Deviation	0.08
Variance	0.01
Skewness	1.45
Kurtosis	5.12
Coefficient of Variability	1.37
Range Minimum	0.00
Range Maximum	0.63
Range Width	0.63
Mean Standard Error	0.00



50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Forecast: G-Riskd NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	0.00
45%	0.00
40%	0.06
35%	0.07
30%	0.09
25%	0.11
20%	0.12
15%	0.14
10%	0.17
5%	0.21
0%	0.63

End of Forecast

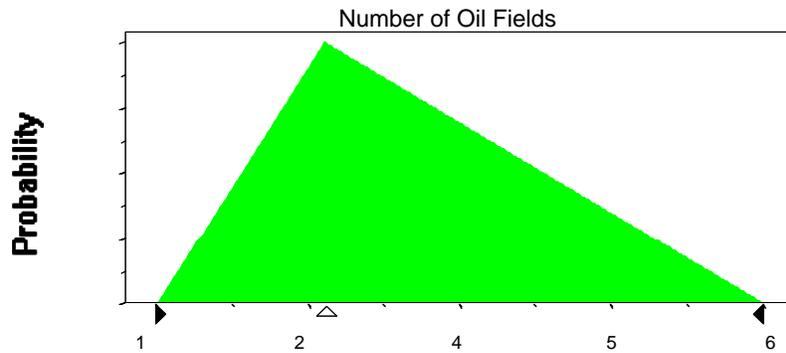
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	6

Selected range is from 1 to 6



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

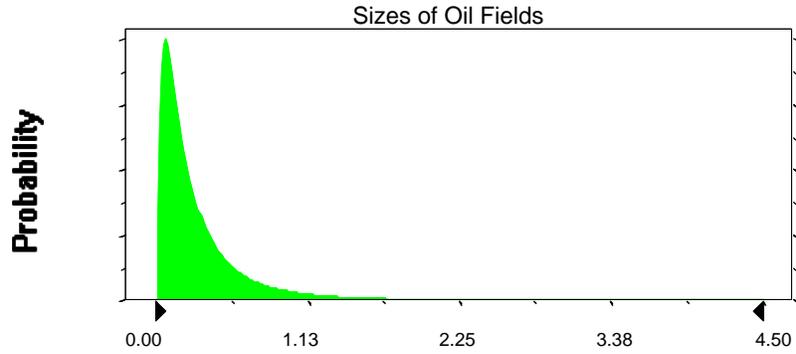
Mean	0.33	Shifted parameters	0.83
Standard Deviation	0.44		0.44

Selected range is from 0.00 to 4.50

0.50 to 5.00

50390201
Fractured Niobrara Limestone Transitional
Monte Carlo Results

Assumption: Sizes of Oil Fields (cont'd)

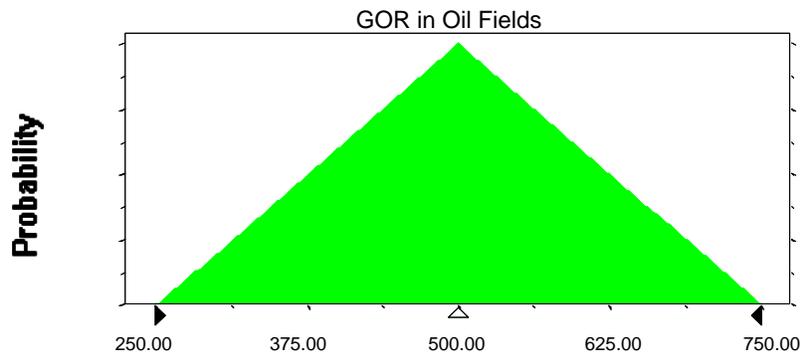


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	250.00
Likeliest	500.00
Maximum	750.00

Selected range is from 250.00 to 750.00



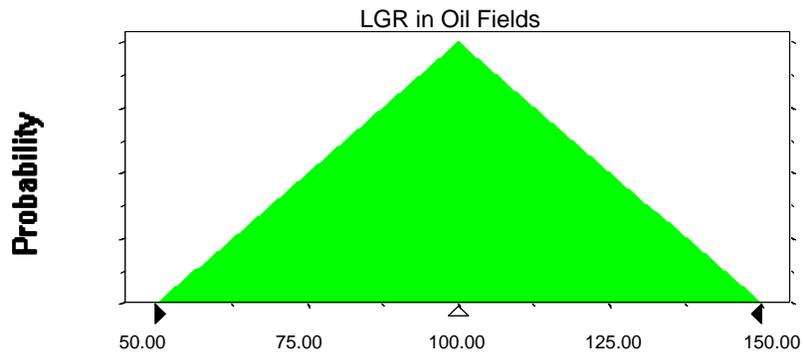
50390201
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Monte Carlo Results

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



End of Assumptions

Simulation started on 4/20/01 at 16:13:30
Simulation stopped on 4/20/01 at 16:24:06