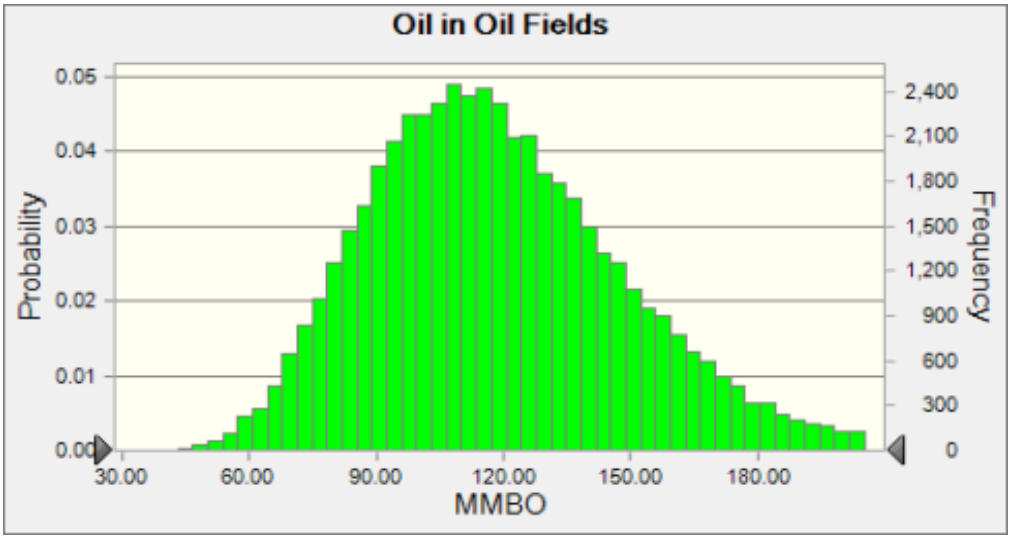
40600101
Mesozoic-Cenozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 12.46 to 282.17
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.14



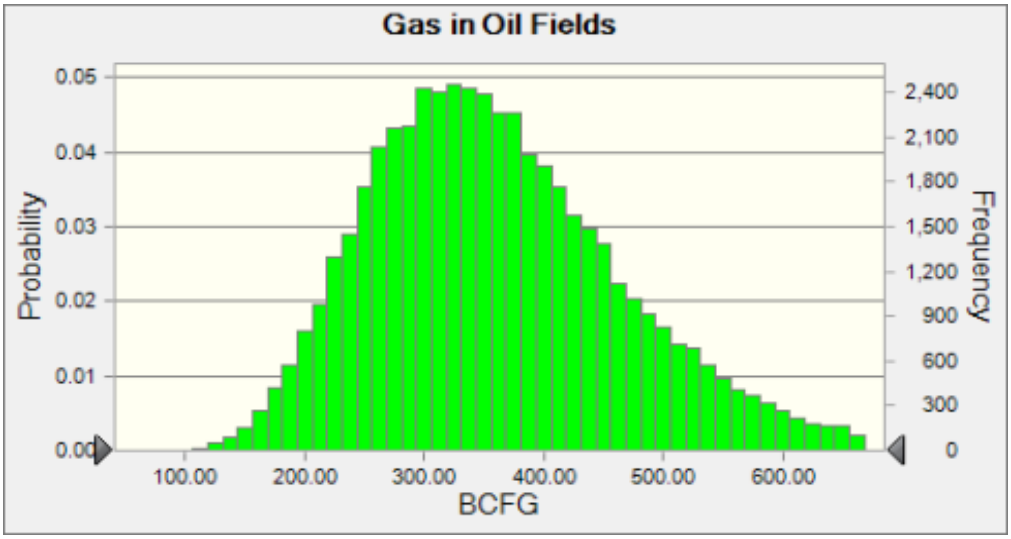
Statistics:	Forecast values
Trials	50,000
Mean	118.85
Median	115.53
Mode	---
Standard Deviation	30.84
Variance	951.36
Skewness	0.6272
Kurtosis	3.55
Coefficient of Variability	0.2595
Minimum	12.46
Maximum	282.17
Range Width	269.70
Mean Standard Error	0.14

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	12.46
95%	74.18
90%	82.01
85%	87.75
80%	92.52
75%	96.74
70%	100.76
65%	104.58
60%	108.23
55%	111.89
50%	115.53
45%	119.31
40%	123.33
35%	127.56
30%	132.31
25%	137.39
20%	143.36
15%	150.57
10%	159.84
5%	174.24
0%	282.17

Forecast: Gas in Oil Fields

Summary:
Entire range is from 13.85 to 1,048.11
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.49



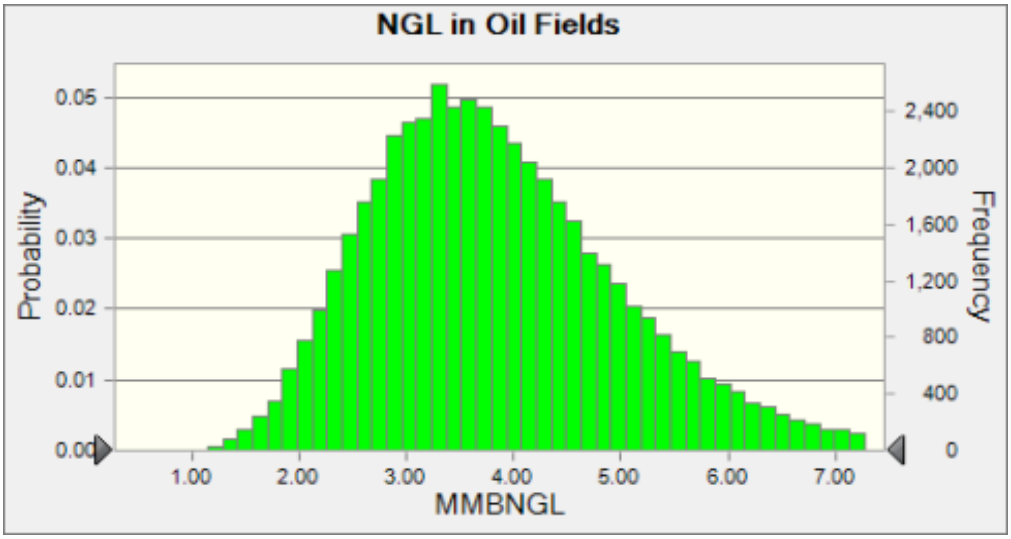
Statistics:	Forecast values
Trials	50,000
Mean	362.09
Median	348.63
Mode	---
Standard Deviation	109.06
Variance	11,893.14
Skewness	0.7422
Kurtosis	3.87
Coefficient of Variability	0.3012
Minimum	13.85
Maximum	1,048.11
Range Width	1,034.26
Mean Standard Error	0.49

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	13.85
95%	208.05
90%	234.01
85%	253.61
80%	269.08
75%	283.71
70%	297.47
65%	310.34
60%	322.95
55%	335.87
50%	348.63
45%	362.21
40%	376.08
35%	391.13
30%	407.32
25%	426.10
20%	446.73
15%	473.15
10%	508.48
5%	561.79
0%	1,048.11

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.13 to 18.16
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.01



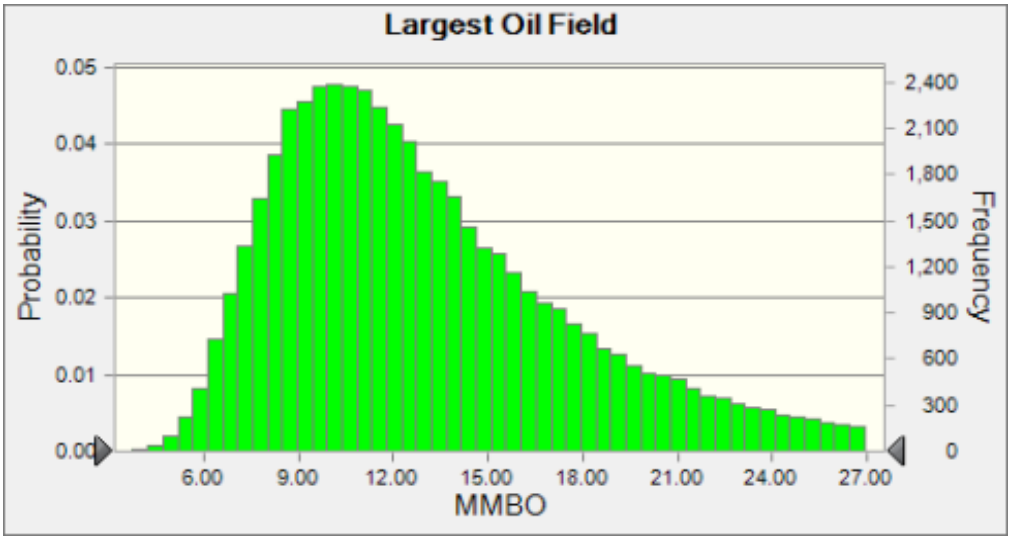
Statistics:	Forecast values
Trials	50,000
Mean	3.86
Median	3.70
Mode	---
Standard Deviation	1.22
Variance	1.49
Skewness	0.8676
Kurtosis	4.70
Coefficient of Variability	0.3164
Minimum	0.13
Maximum	18.16
Range Width	18.04
Mean Standard Error	0.01

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.13
95%	2.16
90%	2.44
85%	2.65
80%	2.83
75%	2.98
70%	3.13
65%	3.28
60%	3.42
55%	3.56
50%	3.70
45%	3.85
40%	4.00
35%	4.17
30%	4.35
25%	4.55
20%	4.79
15%	5.08
10%	5.46
5%	6.08
0%	18.16

Forecast: Largest Oil Field

Summary:
Entire range is from 3.74 to 30.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



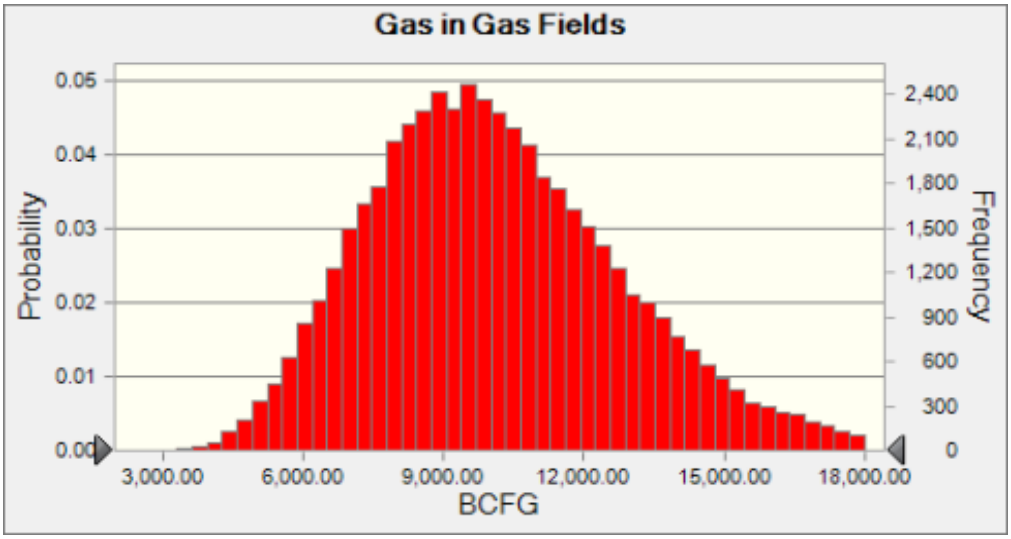
Statistics:	Forecast values
Trials	50,000
Mean	13.16
Median	12.08
Mode	---
Standard Deviation	4.91
Variance	24.12
Skewness	0.9913
Kurtosis	3.68
Coefficient of Variability	0.3731
Minimum	3.74
Maximum	30.00
Range Width	26.26
Mean Standard Error	0.02

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	3.74
95%	7.04
90%	7.86
85%	8.49
80%	9.01
75%	9.53
70%	10.04
65%	10.53
60%	11.03
55%	11.54
50%	12.08
45%	12.66
40%	13.32
35%	14.01
30%	14.82
25%	15.76
20%	16.89
15%	18.29
10%	20.25
5%	23.21
0%	30.00

Forecast: Gas in Gas Fields

Summary:
Entire range is from 22.70 to 26,497.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 12.50



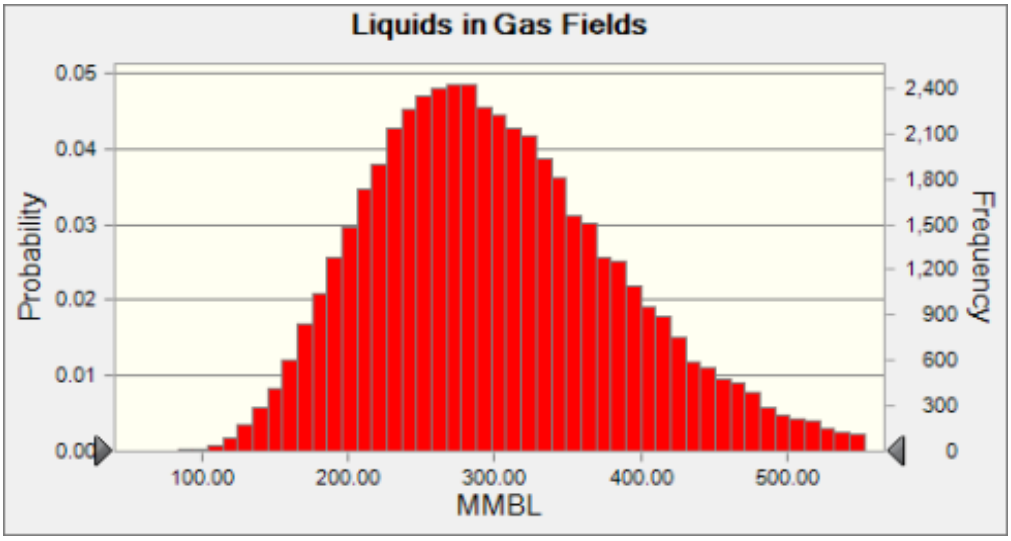
Statistics:	Forecast values
Trials	50,000
Mean	10,170.24
Median	9,876.05
Mode	---
Standard Deviation	2,794.80
Variance	7,810,897.95
Skewness	0.6175
Kurtosis	3.52
Coefficient of Variability	0.2748
Minimum	22.70
Maximum	26,497.03
Range Width	26,474.33
Mean Standard Error	12.50

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	22.70
95%	6,116.37
90%	6,826.16
85%	7,343.01
80%	7,792.17
75%	8,170.63
70%	8,536.80
65%	8,871.08
60%	9,208.27
55%	9,538.14
50%	9,876.02
45%	10,213.48
40%	10,575.74
35%	10,959.15
30%	11,388.14
25%	11,864.85
20%	12,400.80
15%	13,051.04
10%	13,894.94
5%	15,212.50
0%	26,497.03

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.39 to 837.43
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.40



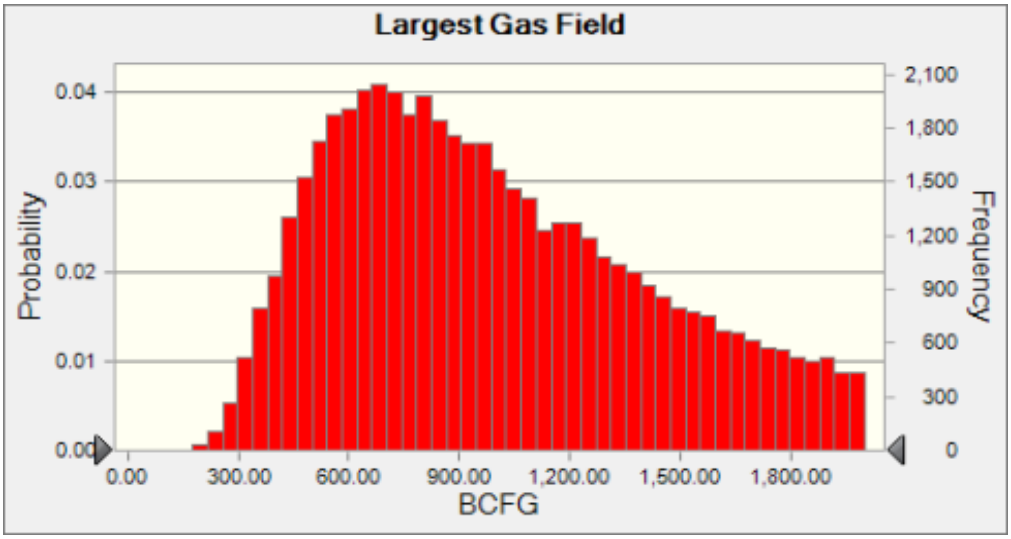
Statistics:	Forecast values
Trials	50,000
Mean	302.72
Median	292.41
Mode	---
Standard Deviation	89.03
Variance	7,925.90
Skewness	0.6969
Kurtosis	3.74
Coefficient of Variability	0.2941
Minimum	0.39
Maximum	837.43
Range Width	837.04
Mean Standard Error	0.40

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.39
95%	175.76
90%	197.32
85%	213.41
80%	226.76
75%	238.65
70%	249.76
65%	260.49
60%	270.96
55%	281.52
50%	292.41
45%	303.63
40%	315.19
35%	327.49
30%	340.62
25%	355.86
20%	373.19
15%	394.17
10%	420.99
5%	464.91
0%	837.43

Forecast: Largest Gas Field

Summary:
Entire range is from 13.35 to 2,000.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.88



Statistics:	Forecast values
Trials	50,000
Mean	986.19
Median	916.19
Mode	---
Standard Deviation	420.35
Variance	176,695.64
Skewness	0.5056
Kurtosis	2.39
Coefficient of Variability	0.4262
Minimum	13.35
Maximum	2,000.00
Range Width	1,986.65
Mean Standard Error	1.88

Forecast: Largest Gas Field (continued)

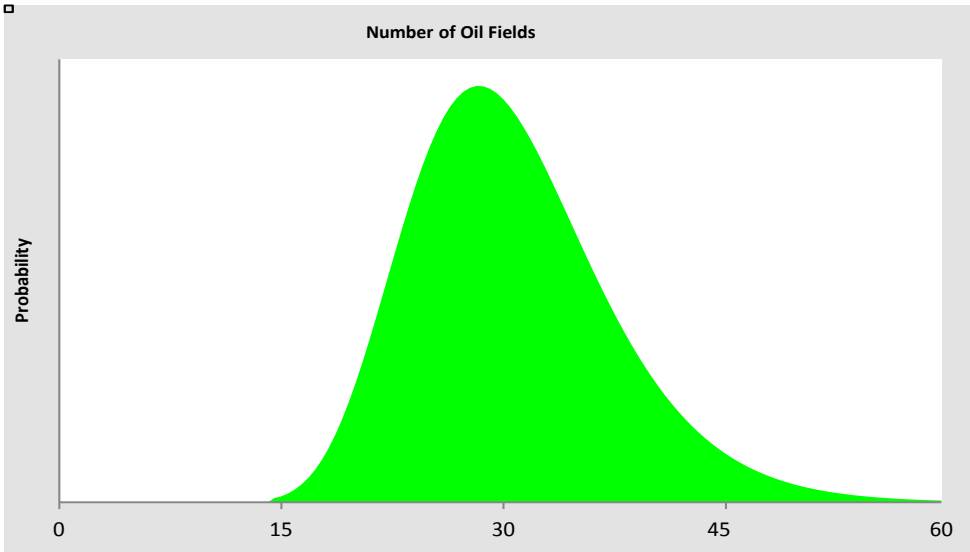
Percentiles:	BCFG
100%	13.35
95%	411.84
90%	486.79
85%	545.56
80%	599.55
75%	651.28
70%	701.05
65%	751.76
60%	805.03
55%	858.46
50%	916.19
45%	975.04
40%	1,040.03
35%	1,111.59
30%	1,192.51
25%	1,275.16
20%	1,372.77
15%	1,486.12
10%	1,623.34
5%	1,789.07
0%	2,000.00

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	29.78	30.78
Standard Deviation	6.94	6.94
Selected range is from -Infinity to 59.00		1.00 to 60.00



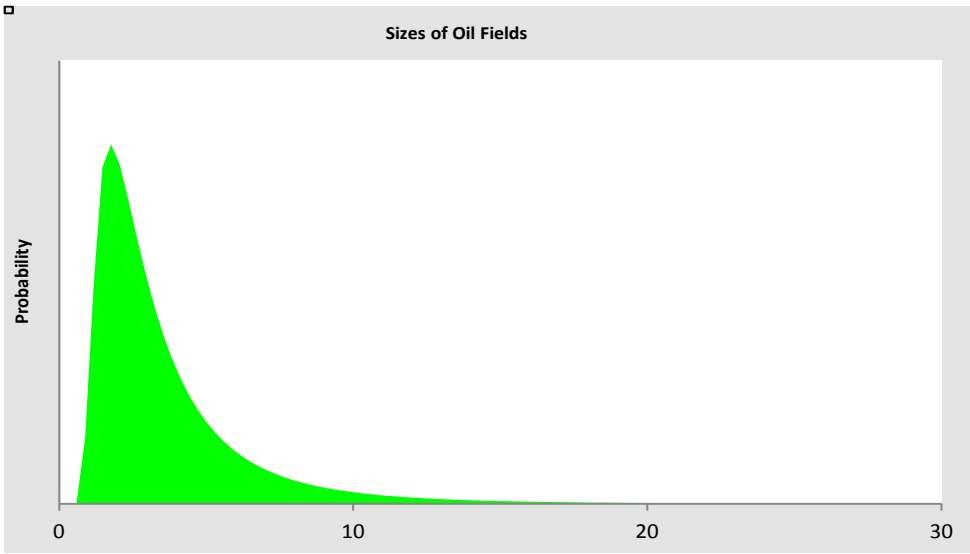
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.72	30.74
Median	29.96	29.99
Mode	---	---
Standard Deviation	6.85	6.86
Variance	46.87	47.03
Skewness	0.6438	0.6320
Kurtosis	3.52	3.50
Coefficient of Variability	0.2229	0.2231
Minimum	13.22	1.00
Maximum	59.98	60.00
Range Width	46.77	59.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.22	1.00
95%	20.86	20.87
90%	22.61	22.60
85%	23.84	23.85
80%	24.87	24.90
75%	25.82	25.83
70%	26.66	26.70
65%	27.48	27.54
60%	28.29	28.35
55%	29.11	29.17
50%	29.96	29.99
45%	30.82	30.84
40%	31.69	31.73
35%	32.62	32.67
30%	33.66	33.70
25%	34.85	34.84
20%	36.15	36.17
15%	37.71	37.77
10%	39.84	39.89
5%	43.17	43.24
0%	59.98	60.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	2.91	3.91
Standard Deviation	3.07	3.07
Selected range is from -Infinity to 29.00		1.00 to 30.00



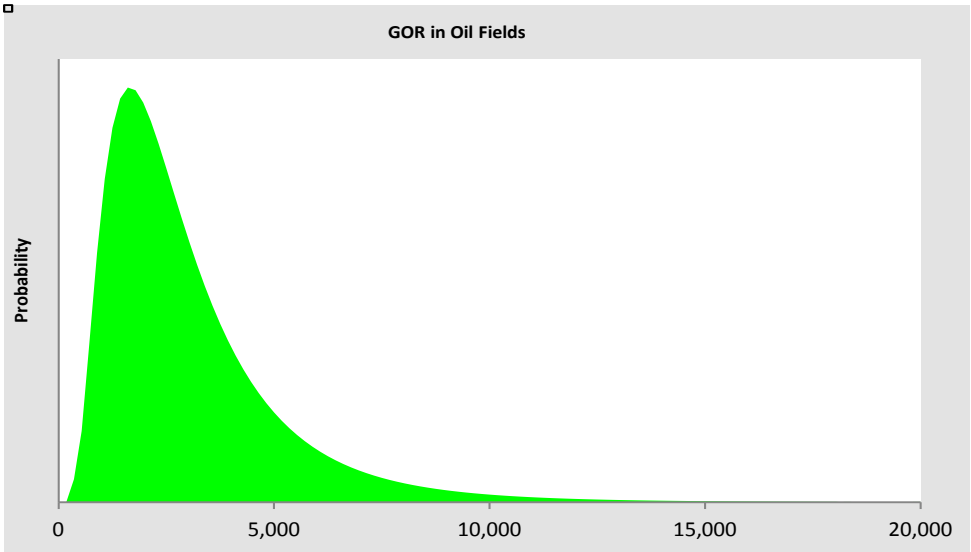
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3.85	3.87
Median	2.98	3.00
Mode	---	---
Standard Deviation	2.81	2.84
Variance	7.88	8.09
Skewness	2.89	2.91
Kurtosis	15.62	15.80
Coefficient of Variability	0.7296	0.7345
Minimum	1.05	1.00
Maximum	29.98	30.00
Range Width	28.92	29.00
Mean Standard Error	0.01	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.05	1.00
95%	1.48	1.48
90%	1.66	1.66
85%	1.81	1.82
80%	1.96	1.96
75%	2.11	2.11
70%	2.27	2.27
65%	2.42	2.43
60%	2.60	2.60
55%	2.78	2.79
50%	2.98	3.00
45%	3.21	3.23
40%	3.47	3.49
35%	3.76	3.79
30%	4.12	4.14
25%	4.55	4.58
20%	5.10	5.13
15%	5.84	5.89
10%	6.95	7.04
5%	9.15	9.24
0%	29.98	30.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	2,965.05	3,065.05
Standard Deviation	2,151.05	2,151.05
Selected range is from -Infinity to 17,900.00		100.00 to 18,000.00



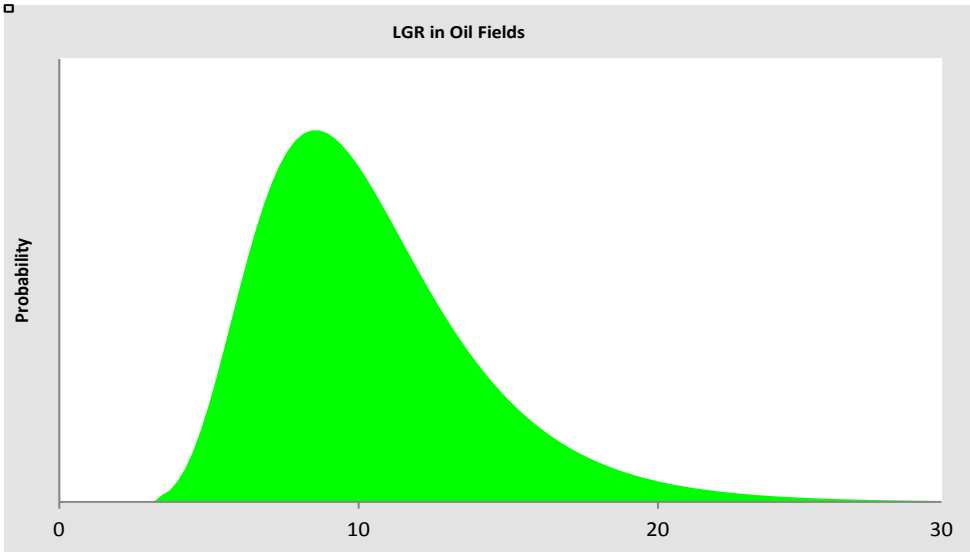
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,055.20	3,046.20
Median	2,498.76	2,498.04
Mode	---	---
Standard Deviation	2,075.76	2,063.57
Variance	4,308,800.08	4,258,309.46
Skewness	2.07	2.02
Kurtosis	9.47	9.16
Coefficient of Variability	0.6794	0.6774
Minimum	265.30	100.00
Maximum	17,886.70	18,000.00
Range Width	17,621.40	17,900.00
Mean Standard Error	9.28	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	265.30	100.00
95%	927.92	923.29
90%	1,156.49	1,142.63
85%	1,333.89	1,322.73
80%	1,498.97	1,487.80
75%	1,659.99	1,647.06
70%	1,812.52	1,805.58
65%	1,974.53	1,966.92
60%	2,143.47	2,134.10
55%	2,313.94	2,310.05
50%	2,498.74	2,498.04
45%	2,710.13	2,701.99
40%	2,932.76	2,926.96
35%	3,183.34	3,179.88
30%	3,469.88	3,470.84
25%	3,824.07	3,815.58
20%	4,246.34	4,240.81
15%	4,803.10	4,797.65
10%	5,596.19	5,604.11
5%	7,059.19	7,052.61
0%	17,886.70	18,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	9.67	10.67
Standard Deviation	3.80	3.8
Selected range is from -Infinity to 29.00		1.00 to 30.00



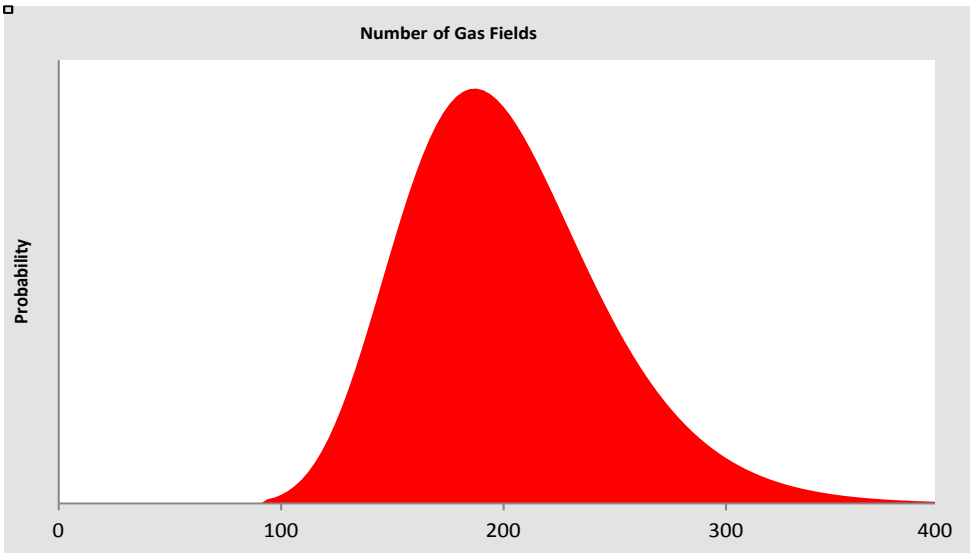
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.67	10.65
Median	10.01	10.00
Mode	---	---
Standard Deviation	3.74	3.73
Variance	13.96	13.90
Skewness	1.08	1.08
Kurtosis	4.64	4.69
Coefficient of Variability	0.3502	0.3502
Minimum	3.14	1.00
Maximum	29.98	30.00
Range Width	26.85	29.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.14	1.00
95%	5.85	5.83
90%	6.54	6.54
85%	7.07	7.08
80%	7.54	7.54
75%	7.98	7.97
70%	8.40	8.38
65%	8.80	8.78
60%	9.19	9.17
55%	9.59	9.58
50%	10.01	10.00
45%	10.44	10.43
40%	10.90	10.90
35%	11.41	11.41
30%	11.98	11.97
25%	12.63	12.61
20%	13.42	13.36
15%	14.38	14.31
10%	15.66	15.59
5%	17.72	17.72
0%	29.98	30.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	204.11	205.11
Standard Deviation	46.54	46.54
Selected range is from -Infinity to 399.00		1.00 to 400.00



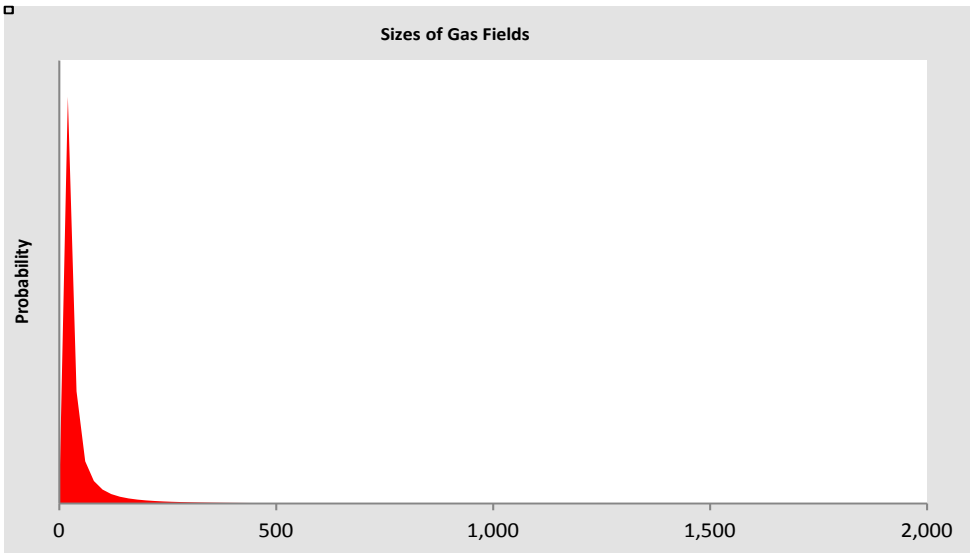
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	204.83	204.89
Median	200.05	199.94
Mode	---	---
Standard Deviation	46.04	46.03
Variance	2,119.86	2,118.44
Skewness	0.6111	0.6181
Kurtosis	3.48	3.48
Coefficient of Variability	0.2248	0.2246
Minimum	80.73	1.00
Maximum	399.85	400.00
Range Width	319.11	399.00
Mean Standard Error	0.21	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	80.73	1.00
95%	137.97	138.40
90%	149.80	150.11
85%	158.63	158.56
80%	165.71	165.62
75%	172.17	171.93
70%	177.86	177.81
65%	183.50	183.43
60%	189.01	188.92
55%	194.49	194.40
50%	200.05	199.94
45%	205.66	205.65
40%	211.64	211.61
35%	217.89	217.95
30%	224.67	224.84
25%	232.37	232.51
20%	241.10	241.36
15%	251.91	252.09
10%	266.03	266.25
5%	288.69	288.60
0%	399.85	400.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	47.18	53.18
Standard Deviation	179.37	179.37
Selected range is from -Infinity to 1,994.00		6.00 to 2,000.00



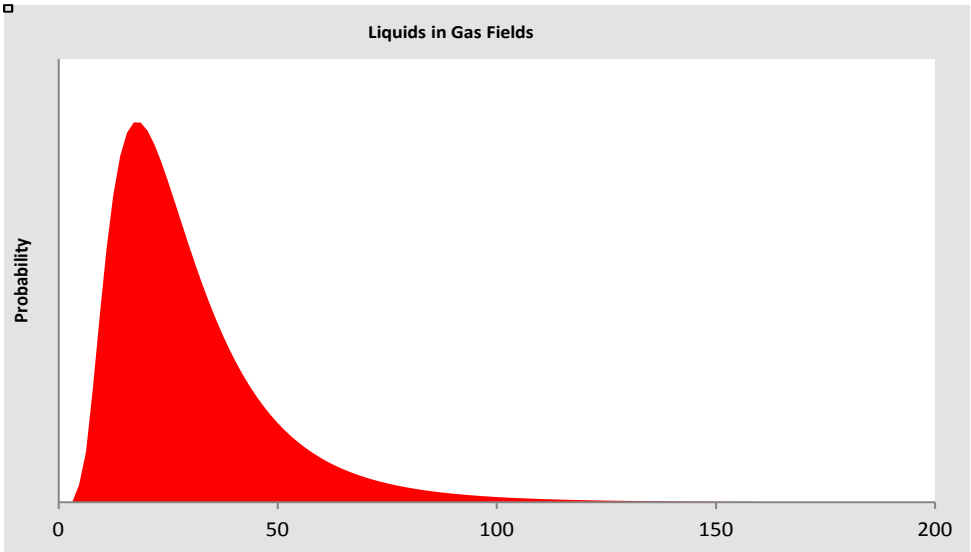
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	49.55	49.93
Median	18.02	17.98
Mode	---	---
Standard Deviation	113.22	110.91
Variance	12,818.19	12,301.09
Skewness	7.60	7.41
Kurtosis	83.25	80.45
Coefficient of Variability	2.28	2.22
Minimum	6.01	6.00
Maximum	1,985.35	2,000.00
Range Width	1,979.33	1,994.00
Mean Standard Error	0.51	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.01	6.00
95%	6.78	6.79
90%	7.43	7.44
85%	8.16	8.16
80%	8.98	8.98
75%	9.89	9.93
70%	10.96	11.03
65%	12.27	12.33
60%	13.84	13.88
55%	15.72	15.73
50%	18.02	17.98
45%	20.77	20.74
40%	23.98	24.20
35%	28.40	28.64
30%	34.10	34.48
25%	42.15	42.49
20%	53.39	54.08
15%	71.21	72.28
10%	103.11	105.19
5%	184.86	185.74
0%	1,985.35	2,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	28.94	29.94
Standard Deviation	19.50	19.5
Selected range is from -Infinity to 159.00		1.00 to 160.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	29.77	29.78
Median	24.90	24.98
Mode	---	---
Standard Deviation	18.81	18.79
Variance	353.69	353.25
Skewness	1.88	1.88
Kurtosis	8.32	8.30
Coefficient of Variability	0.6318	0.6311
Minimum	2.90	1.00
Maximum	159.93	160.00
Range Width	157.02	159.00
Mean Standard Error	0.08	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.90	1.00
95%	9.81	9.77
90%	12.02	11.95
85%	13.75	13.72
80%	15.33	15.33
75%	16.86	16.88
70%	18.39	18.40
65%	20.00	19.95
60%	21.56	21.54
55%	23.17	23.21
50%	24.90	24.98
45%	26.83	26.90
40%	28.90	29.00
35%	31.22	31.35
30%	33.97	34.04
25%	37.06	37.21
20%	41.03	41.10
15%	46.19	46.15
10%	53.57	53.41
5%	66.63	66.30
0%	159.93	160.00

End of Assumptions

Simulation started on 1/31/2012 at 2:12 PM
Simulation stopped on 1/31/2012 at 2:19 PM