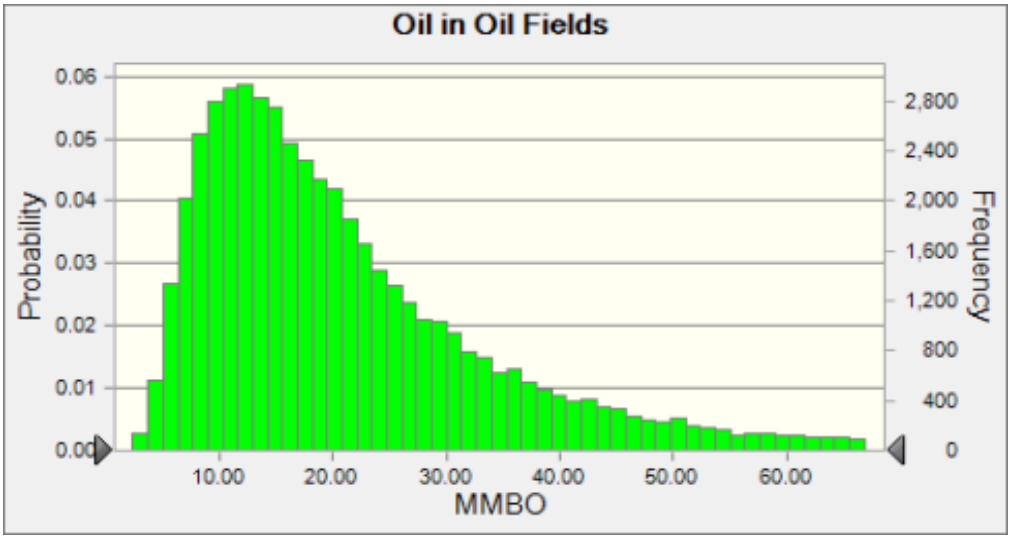
53060101
Mesozoic-Cenozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 2.35 to 221.72
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.07



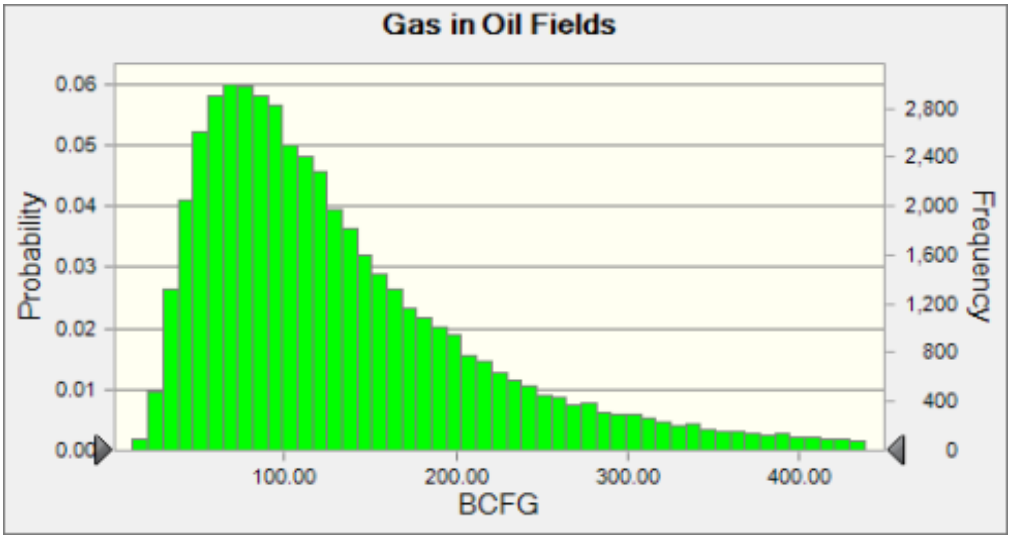
Statistics:	Forecast values
Trials	50,000
Mean	22.20
Median	17.76
Mode	---
Standard Deviation	15.93
Variance	253.88
Skewness	2.20
Kurtosis	10.17
Coefficient of Variability	0.7177
Minimum	2.35
Maximum	221.72
Range Width	219.37
Mean Standard Error	0.07

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	2.35
95%	6.64
90%	8.13
85%	9.37
80%	10.53
75%	11.63
70%	12.77
65%	13.92
60%	15.11
55%	16.39
50%	17.75
45%	19.26
40%	20.83
35%	22.67
30%	24.85
25%	27.51
20%	30.70
15%	35.12
10%	41.63
5%	53.40
0%	221.72

Forecast: Gas in Oil Fields

Summary:
Entire range is from 11.75 to 1,777.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.47



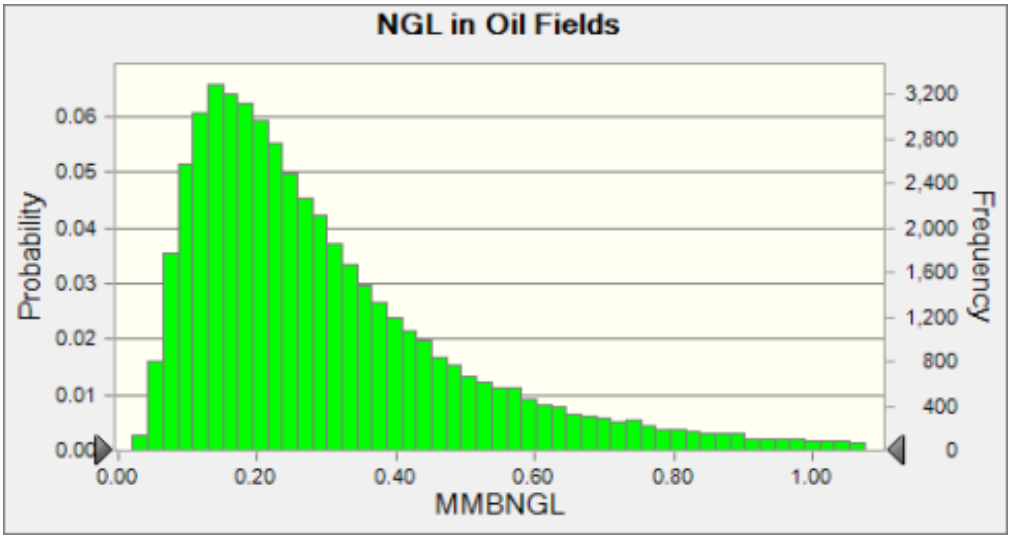
Statistics:	Forecast values
Trials	50,000
Mean	141.63
Median	112.10
Mode	---
Standard Deviation	105.73
Variance	11,178.74
Skewness	2.43
Kurtosis	12.75
Coefficient of Variability	0.7465
Minimum	11.75
Maximum	1,777.96
Range Width	1,766.21
Mean Standard Error	0.47

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	11.75
95%	40.61
90%	50.37
85%	58.21
80%	65.52
75%	72.75
70%	79.99
65%	87.36
60%	94.97
55%	103.24
50%	112.09
45%	121.35
40%	131.89
35%	144.05
30%	158.39
25%	175.31
20%	196.49
15%	223.83
10%	267.46
5%	345.40
0%	1,777.96

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.02 to 4.52
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



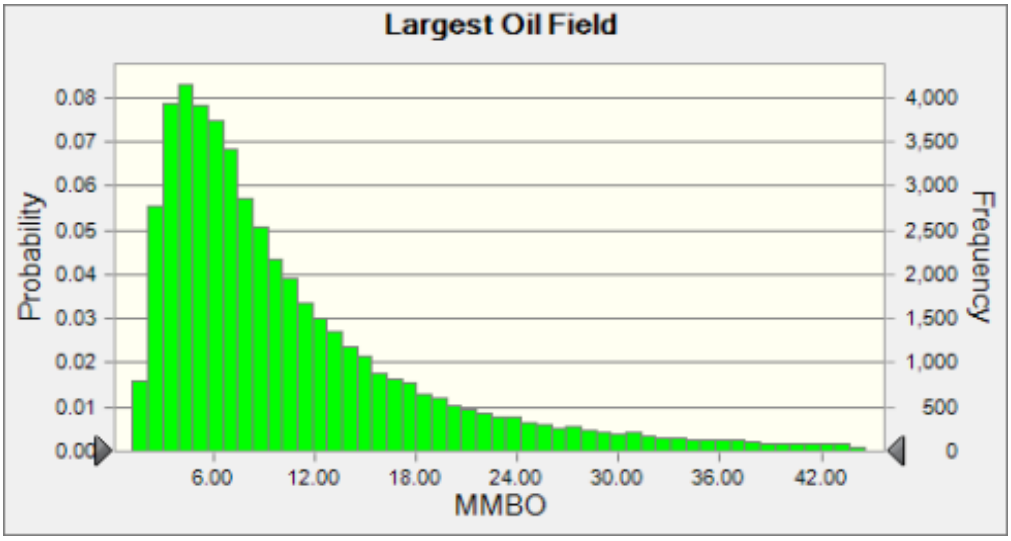
Statistics:	Forecast values
Trials	50,000
Mean	0.32
Median	0.25
Mode	---
Standard Deviation	0.27
Variance	0.07
Skewness	3.19
Kurtosis	22.76
Coefficient of Variability	0.8300
Minimum	0.02
Maximum	4.52
Range Width	4.50
Mean Standard Error	0.00

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.02
95%	0.08
90%	0.11
85%	0.12
80%	0.14
75%	0.16
70%	0.17
65%	0.19
60%	0.21
55%	0.23
50%	0.25
45%	0.27
40%	0.30
35%	0.32
30%	0.36
25%	0.40
20%	0.45
15%	0.52
10%	0.62
5%	0.82
0%	4.52

Forecast: Largest Oil Field

Summary:
Entire range is from 1.22 to 99.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.05



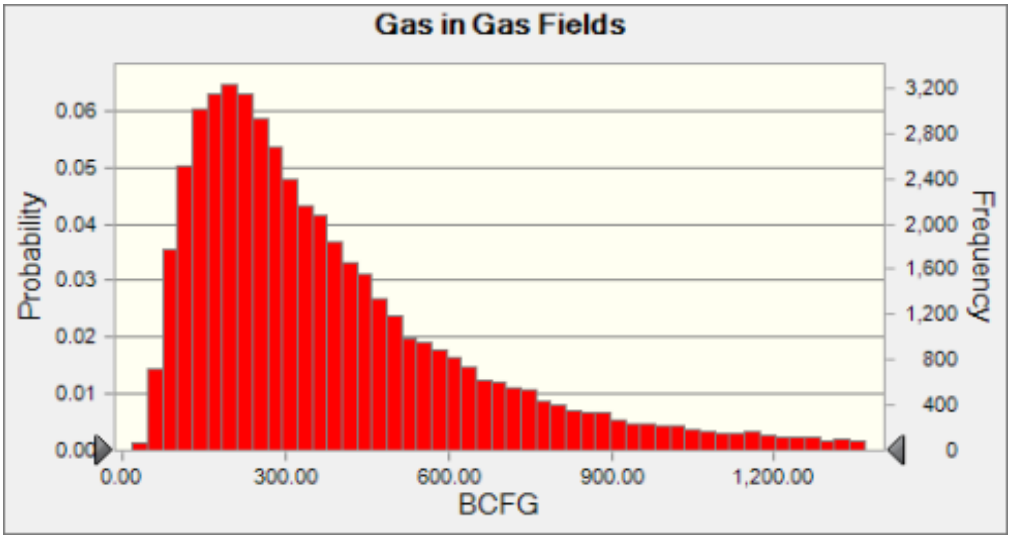
Statistics:	Forecast values
Trials	50,000
Mean	11.87
Median	8.09
Mode	---
Standard Deviation	11.66
Variance	136.07
Skewness	2.94
Kurtosis	14.62
Coefficient of Variability	0.9825
Minimum	1.22
Maximum	99.91
Range Width	98.69
Mean Standard Error	0.05

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	1.22
95%	2.70
90%	3.32
85%	3.87
80%	4.40
75%	4.94
70%	5.51
65%	6.08
60%	6.70
55%	7.35
50%	8.09
45%	8.95
40%	9.94
35%	11.07
30%	12.45
25%	14.11
20%	16.34
15%	19.40
10%	24.35
5%	34.32
0%	99.91

Forecast: Gas in Gas Fields

Summary:
Entire range is from 20.24 to 3,701.57
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.52



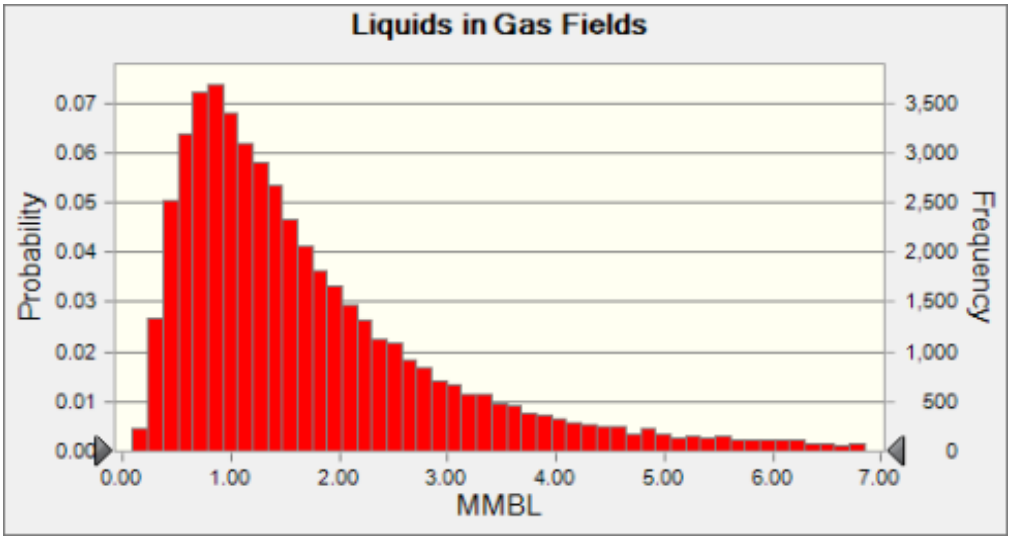
Statistics:	Forecast values
Trials	50,000
Mean	415.98
Median	314.54
Mode	---
Standard Deviation	338.87
Variance	114,833.09
Skewness	2.33
Kurtosis	10.69
Coefficient of Variability	0.8146
Minimum	20.24
Maximum	3,701.57
Range Width	3,681.34
Mean Standard Error	1.52

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	20.24
95%	101.84
90%	129.28
85%	152.68
80%	174.04
75%	195.72
70%	216.86
65%	238.63
60%	262.10
55%	287.57
50%	314.54
45%	345.62
40%	379.42
35%	417.48
30%	461.16
25%	515.92
20%	588.49
15%	681.67
10%	821.14
5%	1,092.88
0%	3,701.57

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.09 to 30.81
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.01



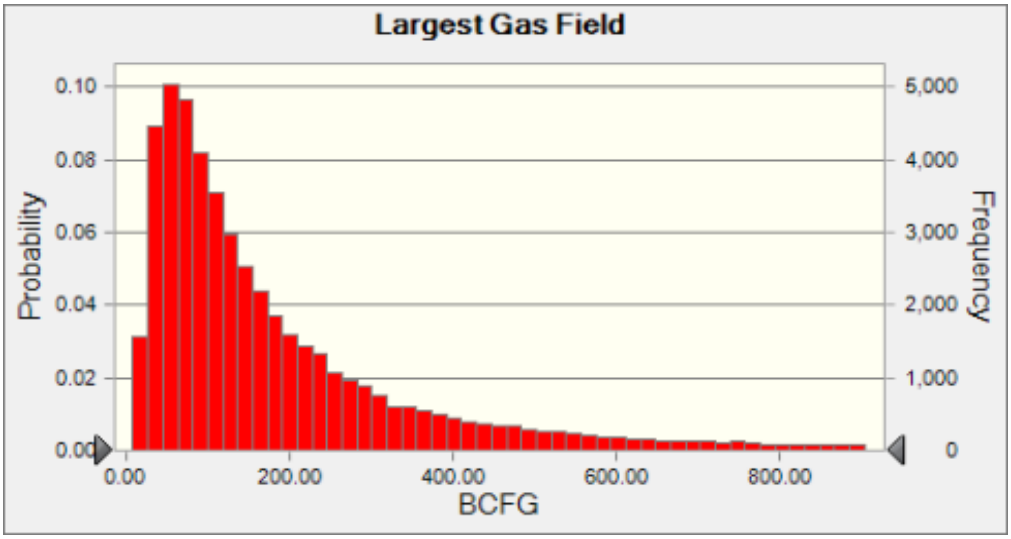
Statistics:	Forecast values
Trials	50,000
Mean	1.90
Median	1.39
Mode	---
Standard Deviation	1.76
Variance	3.11
Skewness	3.47
Kurtosis	24.51
Coefficient of Variability	0.9290
Minimum	0.09
Maximum	30.81
Range Width	30.72
Mean Standard Error	0.01

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.09
95%	0.43
90%	0.55
85%	0.66
80%	0.75
75%	0.84
70%	0.94
65%	1.04
60%	1.15
55%	1.26
50%	1.39
45%	1.52
40%	1.68
35%	1.85
30%	2.07
25%	2.32
20%	2.64
15%	3.08
10%	3.76
5%	5.09
0%	30.81

Forecast: Largest Gas Field

Summary:
Entire range is from 7.69 to 1,999.48
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.11



Statistics:	Forecast values
Trials	50,000
Mean	210.37
Median	126.51
Mode	---
Standard Deviation	248.00
Variance	61,503.93
Skewness	3.08
Kurtosis	15.20
Coefficient of Variability	1.18
Minimum	7.69
Maximum	1,999.48
Range Width	1,991.79
Mean Standard Error	1.11

Forecast: Largest Gas Field (continued)

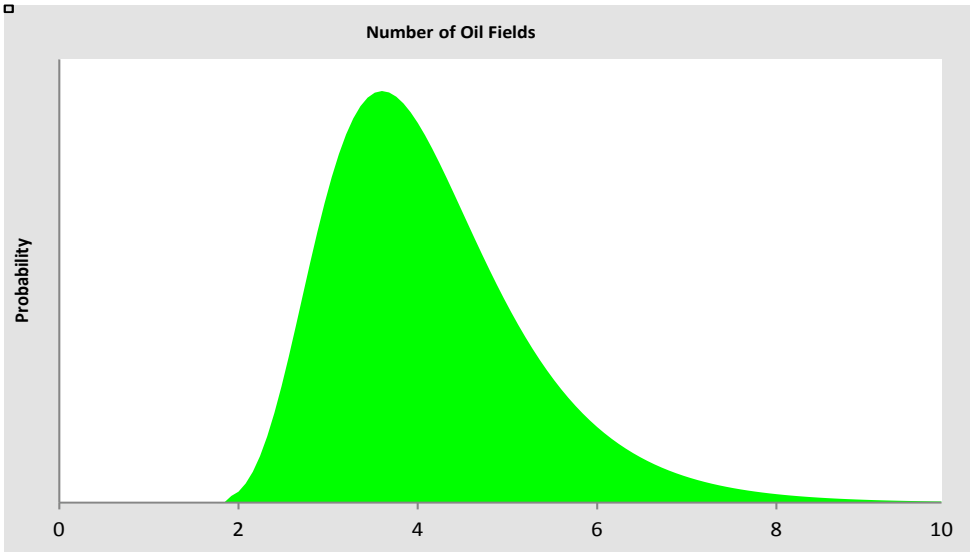
Percentiles:	BCFG
100%	7.69
95%	30.43
90%	40.38
85%	49.63
80%	58.63
75%	67.85
70%	77.52
65%	87.75
60%	99.29
55%	111.97
50%	126.51
45%	142.73
40%	161.84
35%	184.36
30%	213.22
25%	246.84
20%	293.11
15%	361.39
10%	469.60
5%	696.47
0%	1,999.48

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	3.20	4.2
Standard Deviation	1.17	1.17
Selected range is from -Infinity to 9.00		1.00 to 10.00



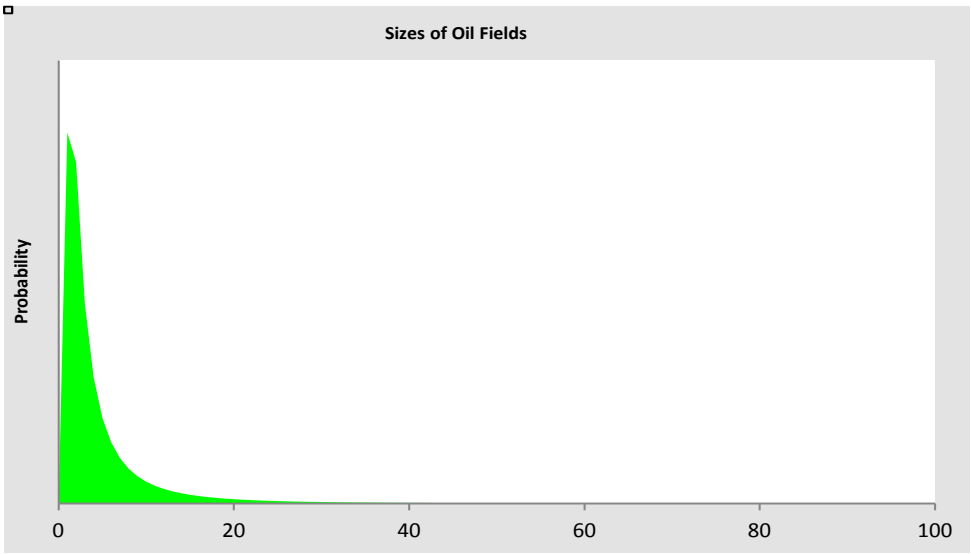
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.19	4.19
Median	4.00	4.00
Mode	---	---
Standard Deviation	1.15	1.15
Variance	1.32	1.33
Skewness	1.01	1.01
Kurtosis	4.46	4.46
Coefficient of Variability	0.2741	0.2754
Minimum	1.57	1.00
Maximum	9.99	10.00
Range Width	8.42	9.00
Mean Standard Error	0.01	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.57	1.00
95%	2.67	2.67
90%	2.90	2.90
85%	3.08	3.07
80%	3.23	3.22
75%	3.37	3.36
70%	3.49	3.49
65%	3.62	3.62
60%	3.74	3.74
55%	3.87	3.87
50%	4.00	4.00
45%	4.14	4.14
40%	4.29	4.28
35%	4.44	4.44
30%	4.61	4.61
25%	4.80	4.81
20%	5.03	5.04
15%	5.33	5.33
10%	5.72	5.72
5%	6.36	6.37
0%	9.99	10.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.44	5.44
Standard Deviation	8.80	8.8
Selected range is from -Infinity to 99.00		1.00 to 100.00



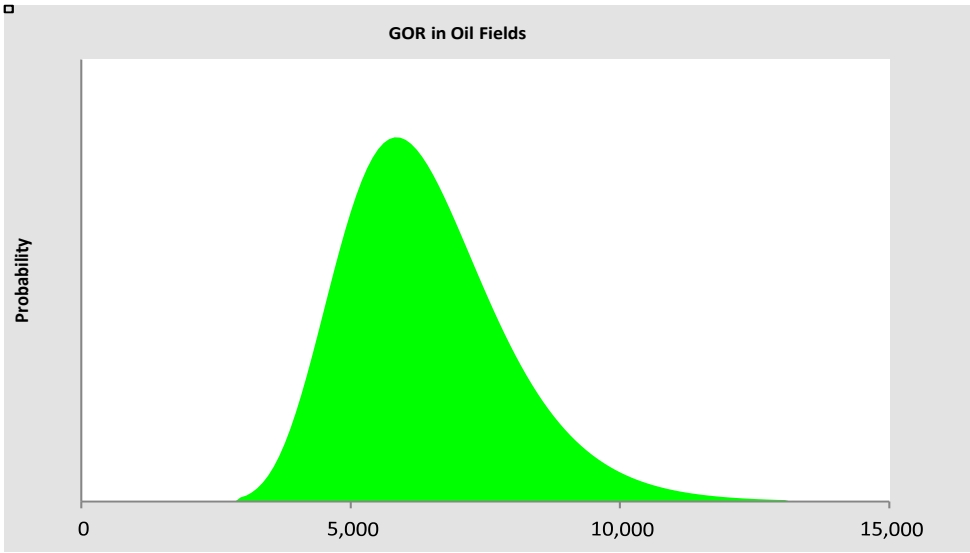
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.30	5.29
Median	2.98	3.00
Mode	---	---
Standard Deviation	7.20	7.14
Variance	51.84	50.94
Skewness	4.95	4.96
Kurtosis	38.47	39.13
Coefficient of Variability	1.36	1.35
Minimum	1.01	1.00
Maximum	99.72	100.00
Range Width	98.71	99.00
Mean Standard Error	0.03	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.01	1.00
95%	1.25	1.25
90%	1.39	1.40
85%	1.53	1.54
80%	1.68	1.69
75%	1.85	1.85
70%	2.03	2.03
65%	2.23	2.23
60%	2.45	2.45
55%	2.70	2.70
50%	2.98	3.00
45%	3.33	3.34
40%	3.72	3.75
35%	4.23	4.25
30%	4.85	4.87
25%	5.65	5.67
20%	6.75	6.77
15%	8.35	8.37
10%	11.06	11.02
5%	16.75	16.78
0%	99.72	100.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	500
Mean	5,887.06	6,387.06
Standard Deviation	1,520.56	1,520.56
Selected range is from -Infinity to 12,500.00		500.00 to 13,000.00



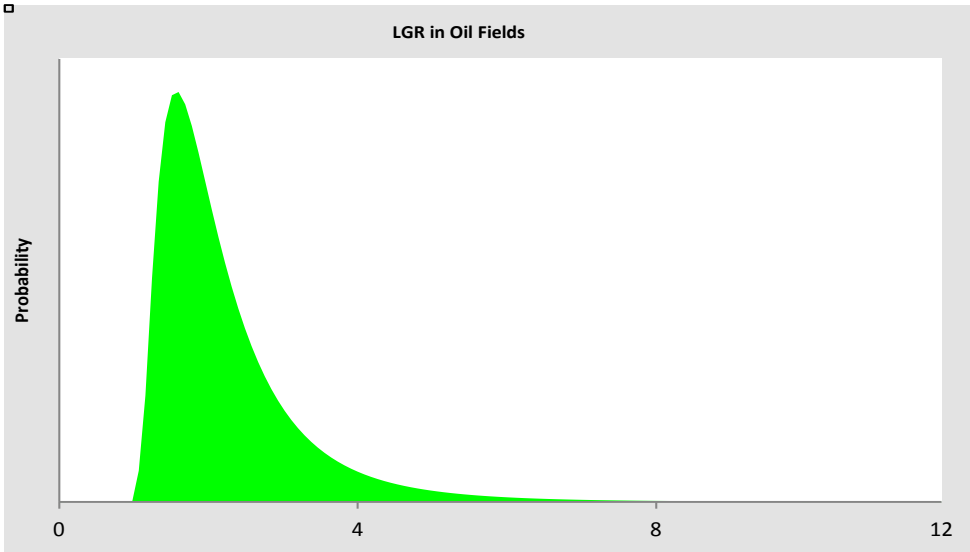
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6,370.78	6,379.49
Median	6,190.91	6,198.18
Mode	---	---
Standard Deviation	1,494.49	1,502.15
Variance	2,233,492.67	2,256,464.03
Skewness	0.7033	0.7036
Kurtosis	3.66	3.65
Coefficient of Variability	0.2346	0.2355
Minimum	2,433.94	500.00
Maximum	12,966.70	13,000.00
Range Width	10,532.75	12,500.00
Mean Standard Error	6.68	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2,433.94	500.00
95%	4,251.90	4,252.18
90%	4,617.35	4,615.01
85%	4,883.10	4,879.41
80%	5,101.69	5,101.60
75%	5,297.80	5,301.16
70%	5,485.16	5,487.73
65%	5,664.61	5,667.06
60%	5,835.77	5,843.17
55%	6,005.80	6,019.25
50%	6,190.89	6,198.18
45%	6,373.65	6,382.88
40%	6,562.41	6,576.66
35%	6,770.84	6,783.59
30%	6,998.95	7,009.23
25%	7,248.84	7,261.70
20%	7,546.31	7,554.19
15%	7,899.83	7,910.74
10%	8,357.56	8,384.09
5%	9,119.20	9,137.80
0%	12,966.70	13,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	1.29	2.29
Standard Deviation	1.04	1.04
Selected range is from -Infinity to 9.00		1.00 to 10.00



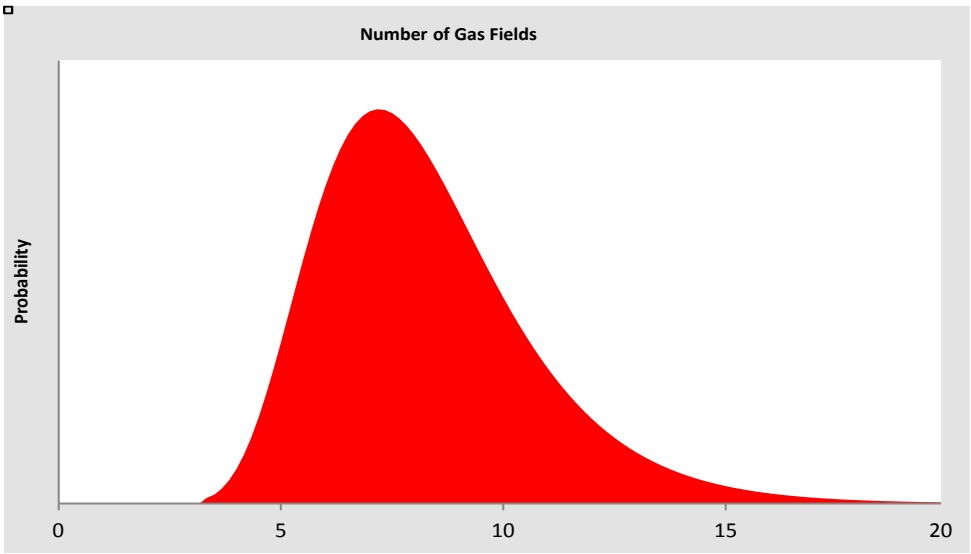
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2.28	2.28
Median	2.00	2.00
Mode	---	---
Standard Deviation	0.99	0.99
Variance	0.99	0.99
Skewness	2.24	2.26
Kurtosis	10.54	10.70
Coefficient of Variability	0.4364	0.4364
Minimum	1.05	1.00
Maximum	9.90	10.00
Range Width	8.85	9.00
Mean Standard Error	0.00	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.05	1.00
95%	1.31	1.31
90%	1.41	1.40
85%	1.48	1.48
80%	1.55	1.55
75%	1.62	1.62
70%	1.69	1.69
65%	1.76	1.76
60%	1.83	1.83
55%	1.91	1.91
50%	2.00	2.00
45%	2.10	2.09
40%	2.20	2.20
35%	2.32	2.31
30%	2.45	2.45
25%	2.61	2.61
20%	2.82	2.82
15%	3.09	3.08
10%	3.48	3.48
5%	4.21	4.20
0%	9.90	10.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	7.38	8.38
Standard Deviation	2.45	2.45
Selected range is from -Infinity to 19.00		1.00 to 20.00



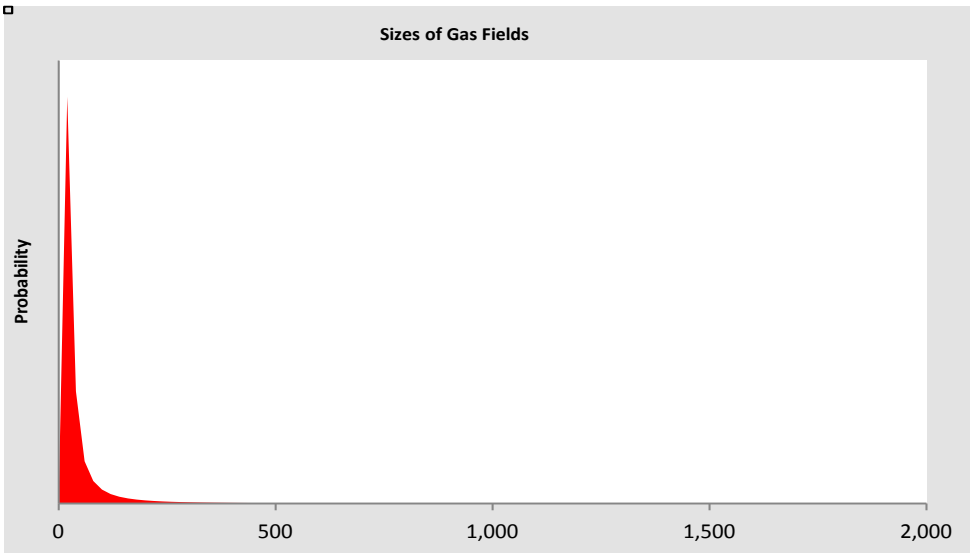
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	8.38	8.36
Median	8.02	8.00
Mode	---	---
Standard Deviation	2.41	2.41
Variance	5.79	5.81
Skewness	0.9012	0.9111
Kurtosis	4.09	4.16
Coefficient of Variability	0.2871	0.2882
Minimum	2.73	1.00
Maximum	19.88	20.00
Range Width	17.15	19.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.73	1.00
95%	5.14	5.11
90%	5.65	5.63
85%	6.03	6.01
80%	6.35	6.33
75%	6.64	6.63
70%	6.92	6.91
65%	7.19	7.18
60%	7.46	7.45
55%	7.74	7.72
50%	8.02	8.00
45%	8.31	8.29
40%	8.61	8.59
35%	8.95	8.92
30%	9.32	9.29
25%	9.73	9.70
20%	10.20	10.18
15%	10.80	10.77
10%	11.58	11.57
5%	12.89	12.88
0%	19.88	20.00

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



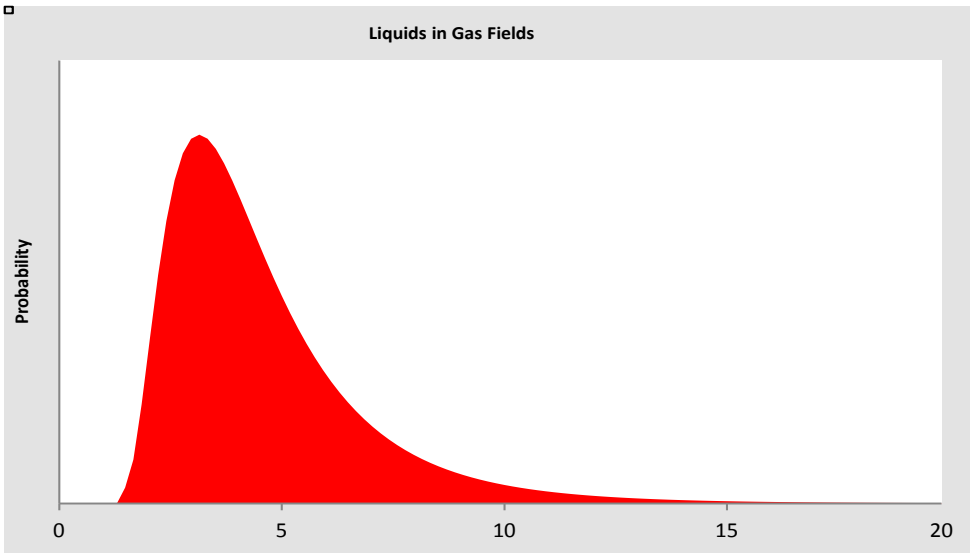
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	49.93	49.93
Median	17.97	17.98
Mode	---	---
Standard Deviation	113.14	110.91
Variance	12,801.70	12,301.09
Skewness	7.67	7.41
Kurtosis	86.18	80.45
Coefficient of Variability	2.27	2.22
Minimum	6.02	6.00
Maximum	1,982.08	2,000.00
Range Width	1,976.06	1,994.00
Mean Standard Error	0.51	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.02	6.00
95%	6.80	6.79
90%	7.44	7.44
85%	8.16	8.16
80%	8.96	8.98
75%	9.94	9.93
70%	11.07	11.03
65%	12.38	12.33
60%	13.95	13.88
55%	15.77	15.73
50%	17.97	17.98
45%	20.74	20.74
40%	24.23	24.20
35%	28.59	28.64
30%	34.45	34.48
25%	42.45	42.49
20%	54.16	54.08
15%	72.87	72.28
10%	106.41	105.19
5%	186.16	185.74
0%	1,982.08	2,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	3.59	4.59
Standard Deviation	2.35	2.35
Selected range is from -Infinity to 19.00		1.00 to 20.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.56	4.57
Median	3.98	4.00
Mode	---	---
Standard Deviation	2.26	2.27
Variance	5.10	5.14
Skewness	1.80	1.82
Kurtosis	7.90	8.00
Coefficient of Variability	0.4956	0.4963
Minimum	1.22	1.00
Maximum	19.96	20.00
Range Width	18.74	19.00
Mean Standard Error	0.01	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.22	1.00
95%	2.12	2.12
90%	2.39	2.39
85%	2.60	2.61
80%	2.80	2.81
75%	2.99	3.00
70%	3.18	3.19
65%	3.37	3.38
60%	3.57	3.58
55%	3.76	3.78
50%	3.98	4.00
45%	4.22	4.23
40%	4.47	4.49
35%	4.78	4.77
30%	5.10	5.10
25%	5.48	5.48
20%	5.93	5.95
15%	6.56	6.56
10%	7.41	7.43
5%	8.96	8.97
0%	19.96	20.00

End of Assumptions

Simulation started on 9/13/2011 at 3:10 PM
Simulation stopped on 9/13/2011 at 3:14 PM