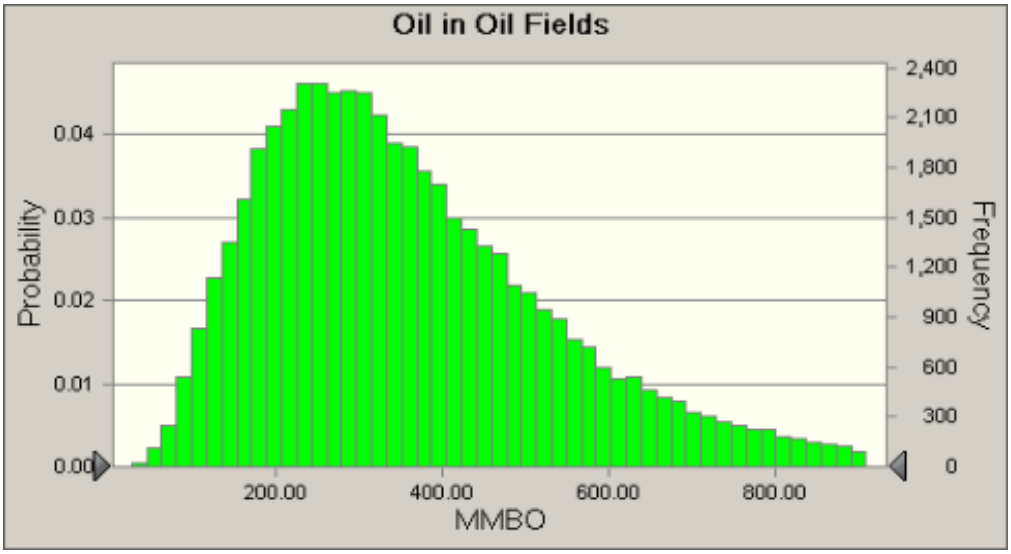
60120101
Paleozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 27.60 to 1,602.51
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.86



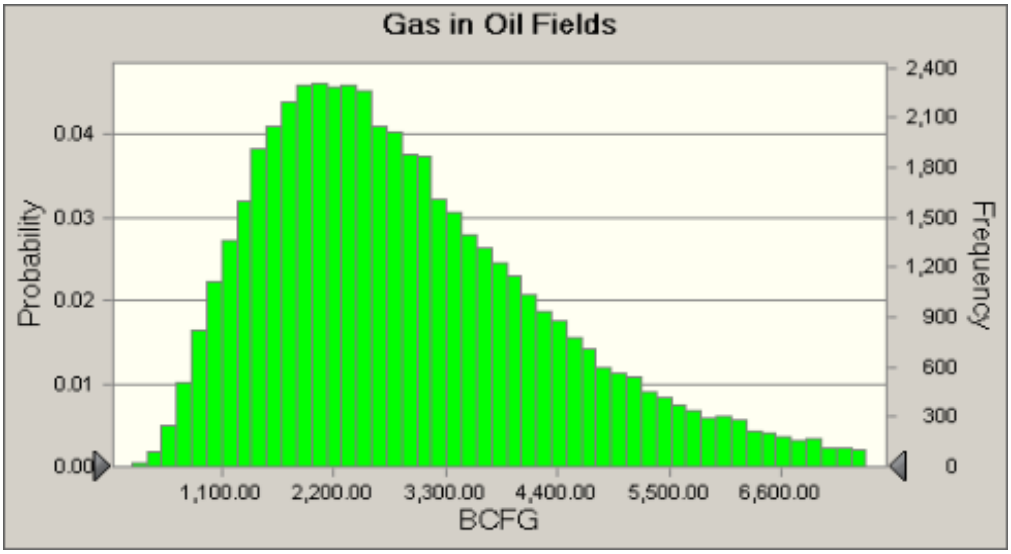
Statistics:	Forecast values
Trials	50,000
Mean	369.09
Median	330.20
Mode	---
Standard Deviation	193.16
Variance	37,310.16
Skewness	1.26
Kurtosis	5.32
Coefficient of Variability	0.5233
Minimum	27.60
Maximum	1,602.51
Range Width	1,574.91
Mean Standard Error	0.86

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	27.60
95%	130.29
90%	162.96
85%	187.48
80%	209.43
75%	230.24
70%	249.81
65%	269.26
60%	289.34
55%	309.12
50%	330.20
45%	352.95
40%	376.53
35%	402.94
30%	432.84
25%	466.59
20%	506.17
15%	555.27
10%	626.34
5%	742.48
0%	1,602.51

Forecast: Gas in Oil Fields

Summary:
Entire range is from 207.85 to 12,997.29
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.07



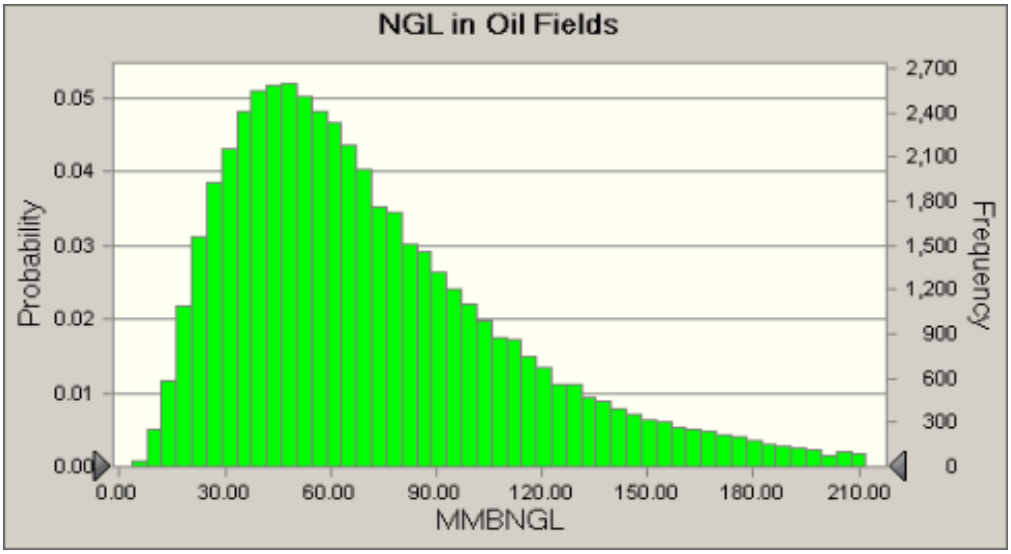
Statistics:	Forecast values
Trials	50,000
Mean	3,005.37
Median	2,683.68
Mode	---
Standard Deviation	1,580.94
Variance	2,499,371.13
Skewness	1.26
Kurtosis	5.34
Coefficient of Variability	0.5260
Minimum	207.85
Maximum	12,997.29
Range Width	12,789.44
Mean Standard Error	7.07

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	207.85
95%	1,057.33
90%	1,318.55
85%	1,522.70
80%	1,702.92
75%	1,867.31
70%	2,028.09
65%	2,189.11
60%	2,348.06
55%	2,510.95
50%	2,683.60
45%	2,869.13
40%	3,066.14
35%	3,278.37
30%	3,522.95
25%	3,804.01
20%	4,133.07
15%	4,534.21
10%	5,103.41
5%	6,060.91
0%	12,997.29

Forecast: NGL in Oil Fields

Summary:
Entire range is from 3.38 to 652.41
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.22



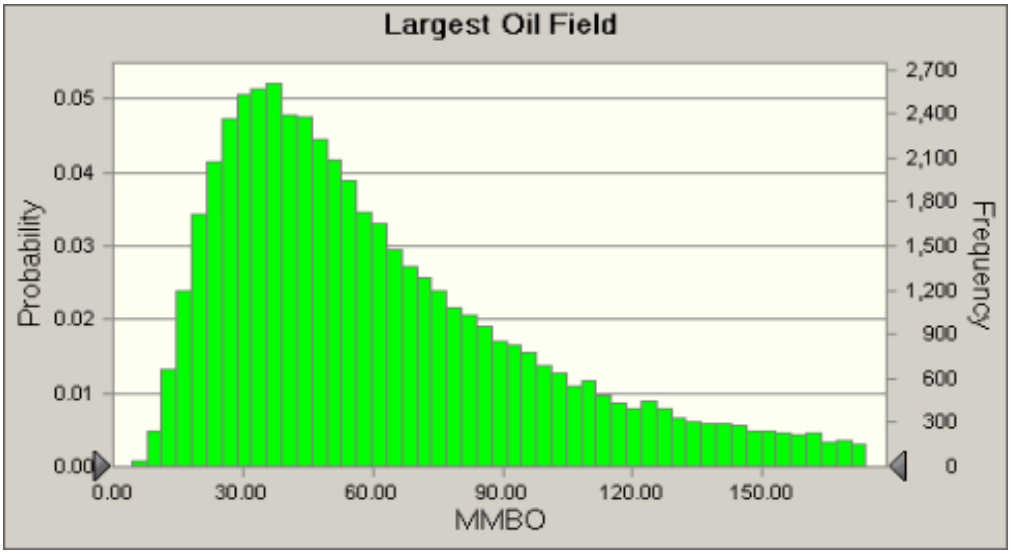
Statistics:	Forecast values
Trials	50,000
Mean	74.84
Median	63.00
Mode	---
Standard Deviation	49.01
Variance	2,402.23
Skewness	2.14
Kurtosis	12.04
Coefficient of Variability	0.6549
Minimum	3.38
Maximum	652.41
Range Width	649.02
Mean Standard Error	0.22

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	3.38
95%	22.13
90%	27.96
85%	33.00
80%	37.42
75%	41.60
70%	45.70
65%	49.84
60%	54.02
55%	58.45
50%	63.00
45%	67.91
40%	73.37
35%	79.47
30%	86.60
25%	94.59
20%	104.28
15%	116.74
10%	135.10
5%	167.76
0%	652.41

Forecast: Largest Oil Field

Summary:
Entire range is from 4.01 to 199.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.18



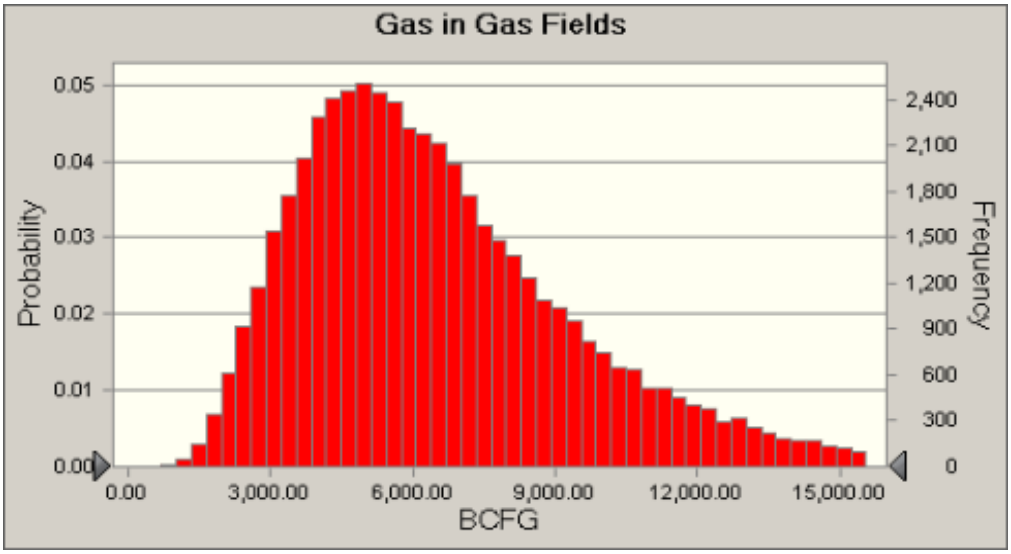
Statistics:	Forecast values
Trials	50,000
Mean	63.36
Median	52.44
Mode	---
Standard Deviation	39.55
Variance	1,564.26
Skewness	1.19
Kurtosis	4.00
Coefficient of Variability	0.6243
Minimum	4.01
Maximum	199.99
Range Width	195.97
Mean Standard Error	0.18

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	4.01
95%	18.74
90%	23.35
85%	27.17
80%	30.68
75%	33.98
70%	37.33
65%	40.89
60%	44.50
55%	48.31
50%	52.44
45%	57.01
40%	62.14
35%	68.06
30%	74.74
25%	82.59
20%	92.26
15%	104.22
10%	121.79
5%	147.94
0%	199.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 58.13 to 26,586.58
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.21



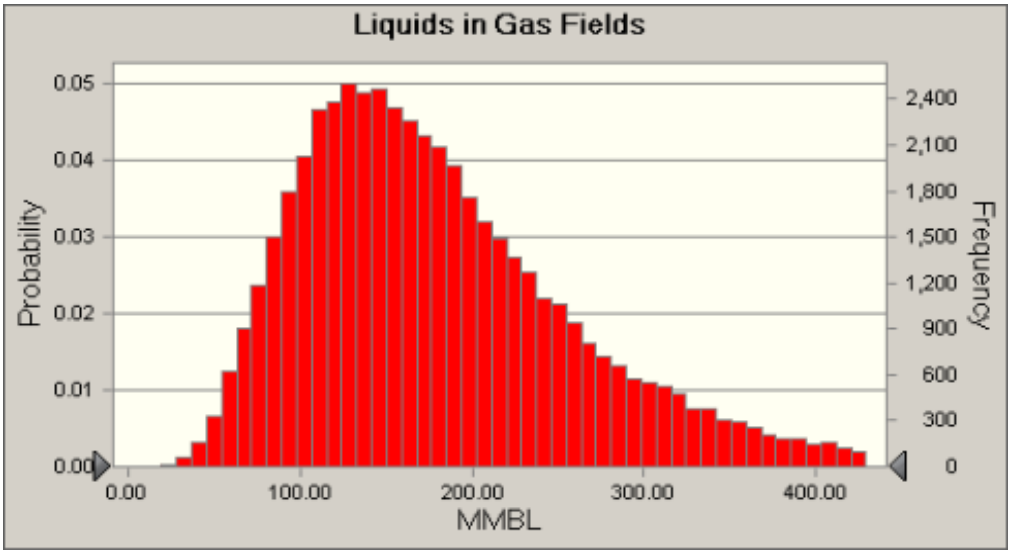
Statistics:	Forecast values
Trials	50,000
Mean	6,647.84
Median	6,023.85
Mode	---
Standard Deviation	3,178.53
Variance	10,103,039.71
Skewness	1.27
Kurtosis	5.43
Coefficient of Variability	0.4781
Minimum	58.13
Maximum	26,586.58
Range Width	26,528.45
Mean Standard Error	14.21

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	58.13
95%	2,709.30
90%	3,259.43
85%	3,685.66
80%	4,050.15
75%	4,387.33
70%	4,705.82
65%	5,025.34
60%	5,342.31
55%	5,672.37
50%	6,023.84
45%	6,390.56
40%	6,767.56
35%	7,184.39
30%	7,668.23
25%	8,218.03
20%	8,888.11
15%	9,701.48
10%	10,860.98
5%	12,733.71
0%	26,586.58

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.49 to 731.85
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.39



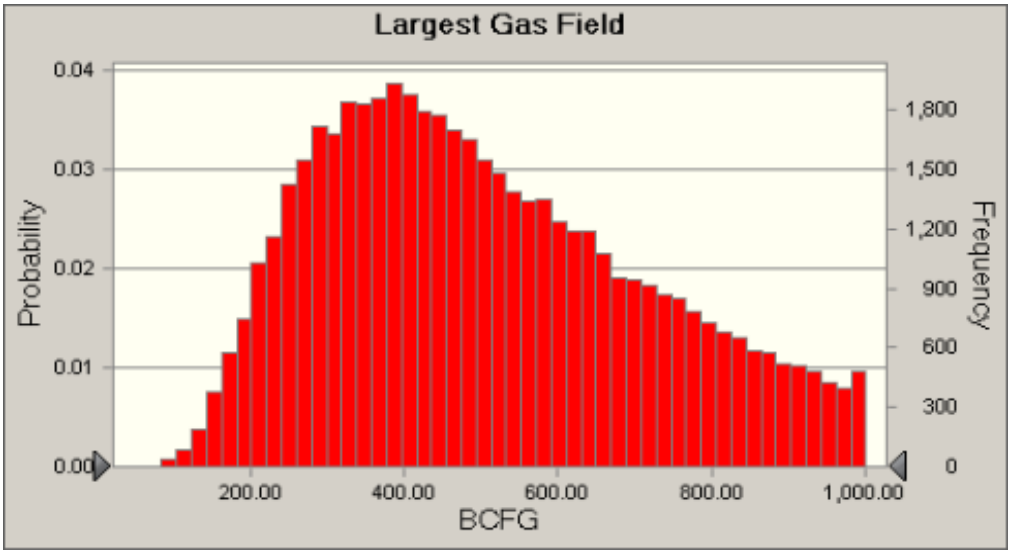
Statistics:	Forecast values
Trials	50,000
Mean	183.52
Median	166.10
Mode	---
Standard Deviation	87.87
Variance	7,720.56
Skewness	1.27
Kurtosis	5.43
Coefficient of Variability	0.4788
Minimum	1.49
Maximum	731.85
Range Width	730.36
Mean Standard Error	0.39

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.49
95%	74.53
90%	90.06
85%	101.64
80%	111.77
75%	121.00
70%	129.78
65%	138.40
60%	147.44
55%	156.61
50%	166.10
45%	176.34
40%	186.95
35%	198.33
30%	211.81
25%	227.11
20%	245.18
15%	267.66
10%	300.60
5%	351.43
0%	731.85

Forecast: Largest Gas Field

Summary:
Entire range is from 46.10 to 999.87
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.93



Statistics:	Forecast values
Trials	50,000
Mean	503.50
Median	472.17
Mode	---
Standard Deviation	208.14
Variance	43,320.85
Skewness	0.4479
Kurtosis	2.36
Coefficient of Variability	0.4134
Minimum	46.10
Maximum	999.87
Range Width	953.77
Mean Standard Error	0.93

Forecast: Largest Gas Field (continued)

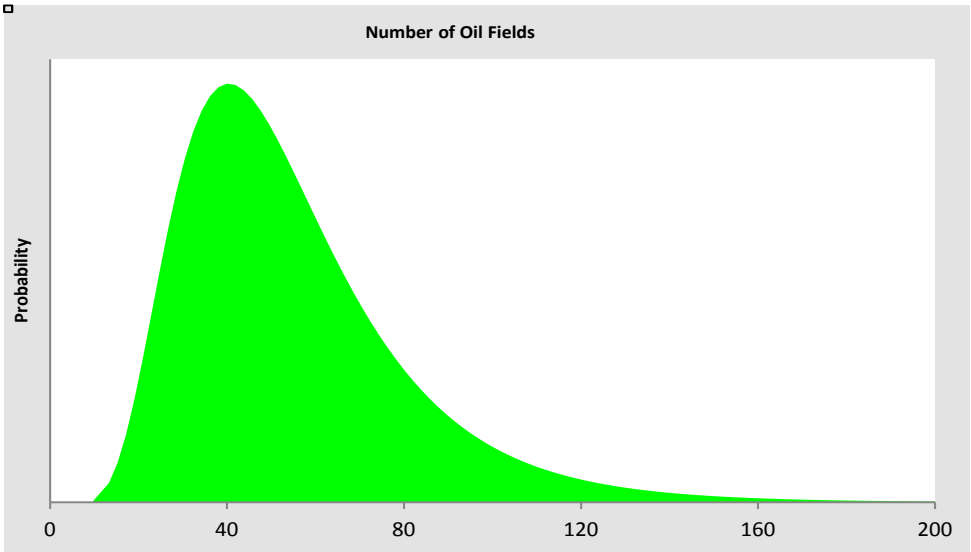
Percentiles:	BCFG
100%	46.10
95%	211.65
90%	251.92
85%	283.50
80%	311.85
75%	338.98
70%	365.33
65%	390.91
60%	416.68
55%	444.12
50%	472.15
45%	501.61
40%	534.36
35%	570.01
30%	607.62
25%	648.07
20%	696.09
15%	750.12
10%	813.99
5%	894.66
0%	999.87

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	54.31	55.31
Standard Deviation	25.95	25.95
Selected range is from -Infinity to 199.00		1.00 to 200.00



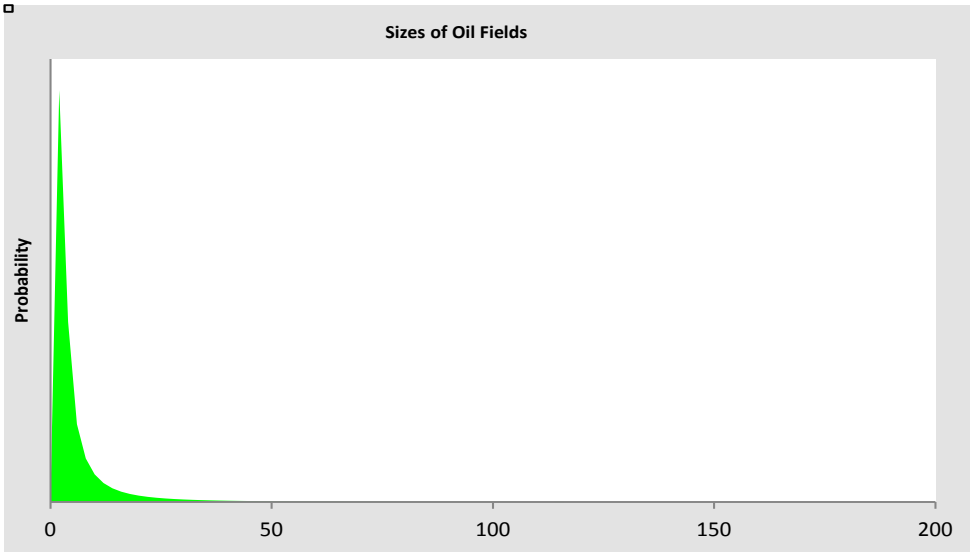
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	54.96	55.13
Median	49.79	49.97
Mode	---	---
Standard Deviation	25.41	25.37
Variance	645.64	643.44
Skewness	1.33	1.32
Kurtosis	5.58	5.59
Coefficient of Variability	0.4623	0.4601
Minimum	9.53	1.00
Maximum	199.98	200.00
Range Width	190.45	199.00
Mean Standard Error	0.11	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.53	1.00
95%	24.01	24.23
90%	28.24	28.39
85%	31.50	31.61
80%	34.31	34.44
75%	36.92	37.07
70%	39.47	39.61
65%	41.91	42.13
60%	44.44	44.66
55%	47.05	47.26
50%	49.79	49.97
45%	52.63	52.84
40%	55.64	55.93
35%	58.99	59.31
30%	62.79	63.10
25%	67.15	67.46
20%	72.39	72.68
15%	79.14	79.28
10%	88.48	88.42
5%	104.42	103.89
0%	199.98	200.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	6.06	7.06
Standard Deviation	17.32	17.32
Selected range is from -Infinity to 199.00		1.00 to 200.00



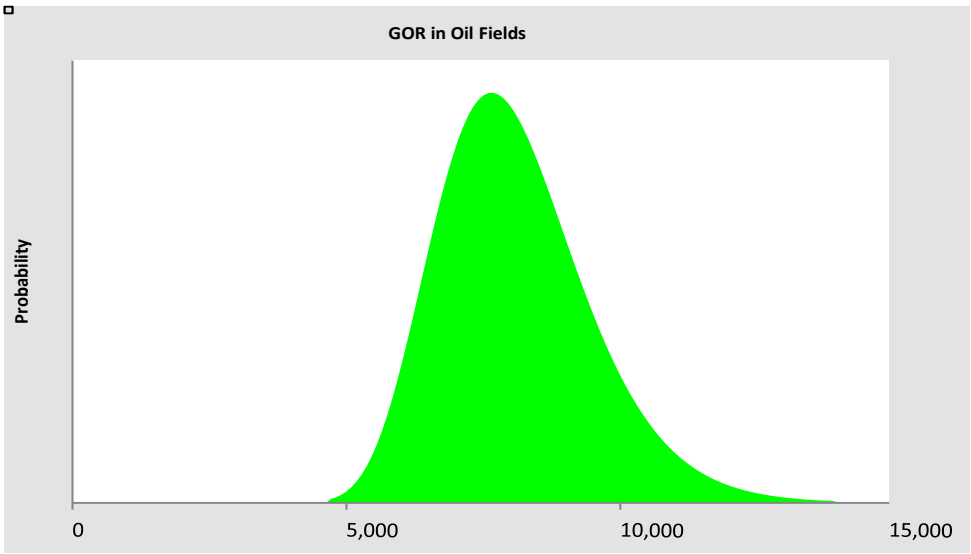
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.61	6.74
Median	2.96	3.00
Mode	---	---
Standard Deviation	11.96	12.27
Variance	143.03	150.63
Skewness	6.37	6.33
Kurtosis	61.72	60.55
Coefficient of Variability	1.81	1.82
Minimum	1.00	1.00
Maximum	197.43	200.00
Range Width	196.43	199.00
Mean Standard Error	0.05	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.17	1.17
90%	1.29	1.30
85%	1.42	1.43
80%	1.56	1.57
75%	1.72	1.73
70%	1.91	1.92
65%	2.12	2.13
60%	2.36	2.37
55%	2.64	2.66
50%	2.96	3.00
45%	3.36	3.41
40%	3.87	3.91
35%	4.48	4.54
30%	5.29	5.35
25%	6.35	6.44
20%	7.89	7.97
15%	10.22	10.31
10%	14.18	14.38
5%	23.25	23.83
0%	197.43	200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1,600.00
Mean	6,548.30	8,148.30
Standard Deviation	1,417.84	1,417.84
Selected range is from -Infinity to 12,400.00		1600.00 to 14,000.00



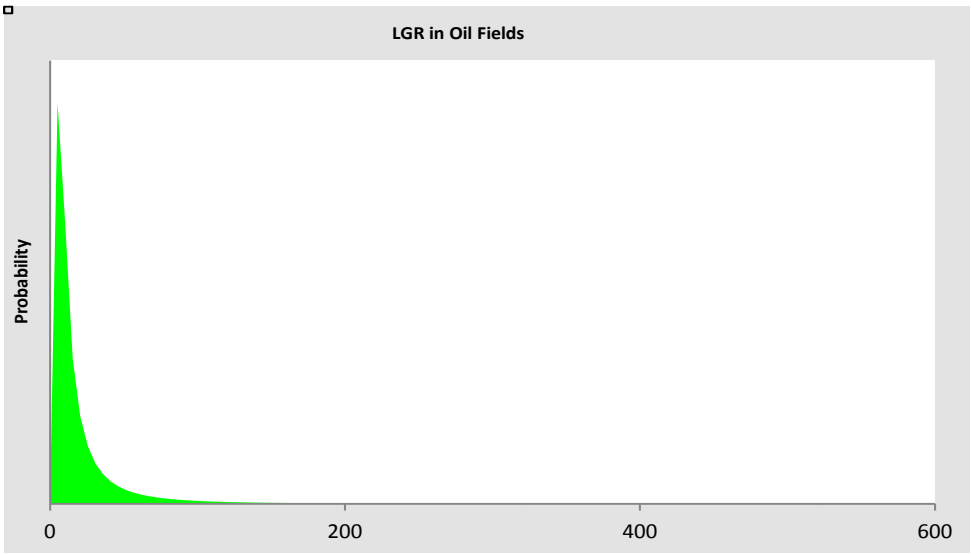
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	8,140.65	8,141.66
Median	7,987.92	7,998.28
Mode	---	---
Standard Deviation	1,411.56	1,402.76
Variance	1,992,488.66	1,967,742.22
Skewness	0.6218	0.5857
Kurtosis	3.51	3.42
Coefficient of Variability	0.1734	0.1723
Minimum	4,323.68	1,600.00
Maximum	13,980.16	14,000.00
Range Width	9,656.47	12,400.00
Mean Standard Error	6.31	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4,323.68	1,600.00
95%	6,097.00	6,100.20
90%	6,463.27	6,464.03
85%	6,722.30	6,725.96
80%	6,940.00	6,944.14
75%	7,131.30	7,138.69
70%	7,313.51	7,319.42
65%	7,482.00	7,492.14
60%	7,650.66	7,660.84
55%	7,818.28	7,828.64
50%	7,987.87	7,998.28
45%	8,166.62	8,172.52
40%	8,345.84	8,354.39
35%	8,540.47	8,547.61
30%	8,756.75	8,757.15
25%	8,991.53	8,990.27
20%	9,257.28	9,258.62
15%	9,568.95	9,583.38
10%	10,008.06	10,010.77
5%	10,711.02	10,683.07
0%	13,980.16	14,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	19.64	25.64
Standard Deviation	44.03	44.03
Selected range is from -Infinity to 503.00		6.00 to 509.00



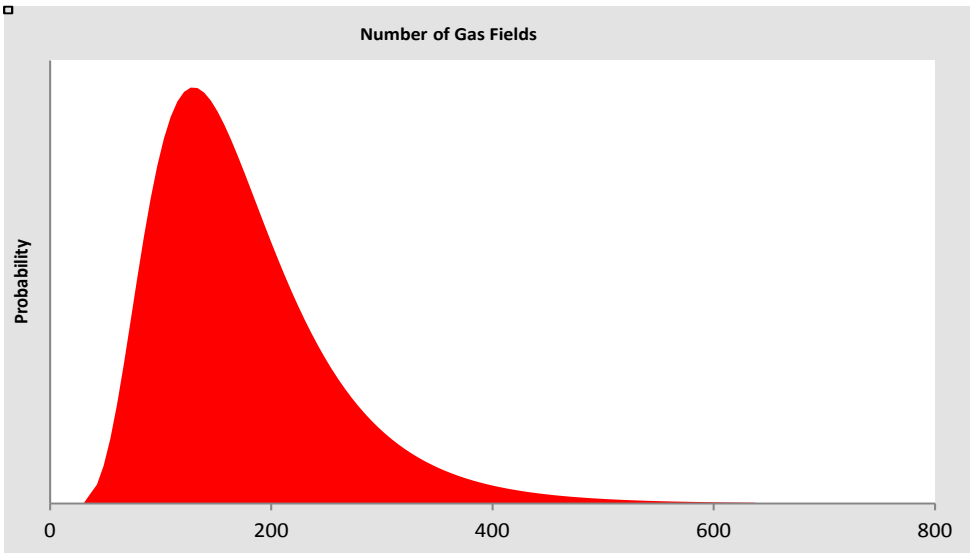
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	24.90	24.87
Median	13.93	13.99
Mode	---	---
Standard Deviation	34.91	34.31
Variance	1,218.41	1,176.95
Skewness	5.49	5.41
Kurtosis	46.23	45.74
Coefficient of Variability	1.40	1.38
Minimum	6.03	6.00
Maximum	506.41	509.00
Range Width	500.38	503.00
Mean Standard Error	0.16	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.03	6.00
95%	6.87	6.88
90%	7.42	7.44
85%	8.00	7.99
80%	8.58	8.59
75%	9.23	9.24
70%	9.94	9.96
65%	10.76	10.77
60%	11.64	11.69
55%	12.71	12.75
50%	13.93	13.99
45%	15.40	15.45
40%	17.15	17.21
35%	19.22	19.38
30%	21.98	22.11
25%	25.52	25.69
20%	30.44	30.62
15%	37.97	37.93
10%	50.30	50.26
5%	76.83	77.63
0%	506.41	509.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	175.95	176.95
Standard Deviation	83.40	83.4
Selected range is from -Infinity to 639.00		1.00 to 640.00



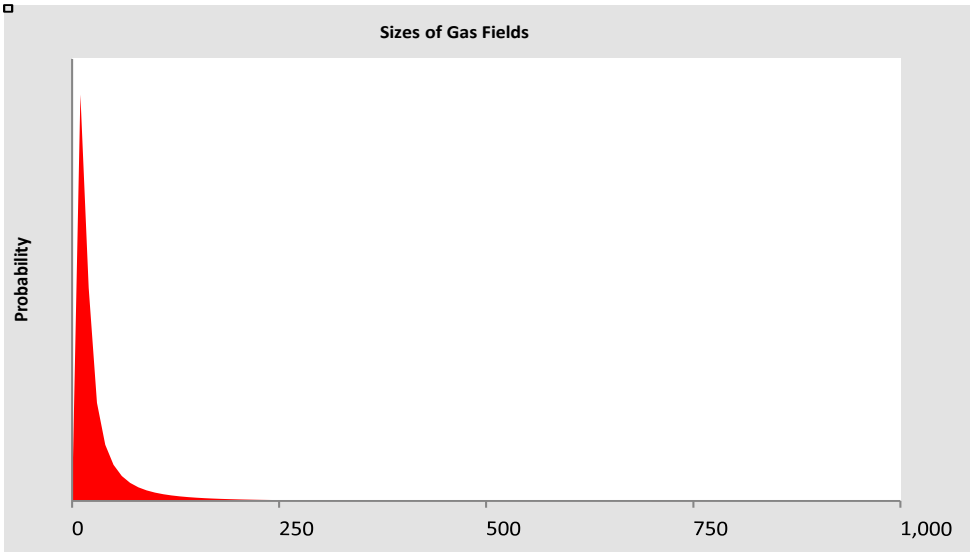
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	176.27	176.40
Median	159.91	159.91
Mode	---	---
Standard Deviation	81.17	81.52
Variance	6,588.38	6,646.28
Skewness	1.30	1.31
Kurtosis	5.49	5.54
Coefficient of Variability	0.4605	0.4622
Minimum	22.60	1.00
Maximum	634.14	640.00
Range Width	611.54	639.00
Mean Standard Error	0.36	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	22.60	1.00
95%	76.69	76.81
90%	90.49	90.28
85%	101.16	100.69
80%	110.06	109.82
75%	118.75	118.32
70%	126.48	126.52
65%	134.55	134.62
60%	142.75	142.80
55%	151.19	151.18
50%	159.91	159.91
45%	169.06	169.15
40%	178.69	179.08
35%	189.51	189.97
30%	201.86	202.15
25%	215.78	216.18
20%	233.37	232.94
15%	254.17	254.11
10%	283.06	283.45
5%	332.87	333.03
0%	634.14	640.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	33.33	39.33
Standard Deviation	86.37	86.37
Selected range is from -Infinity to 994.00		6.00 to 1,000.00



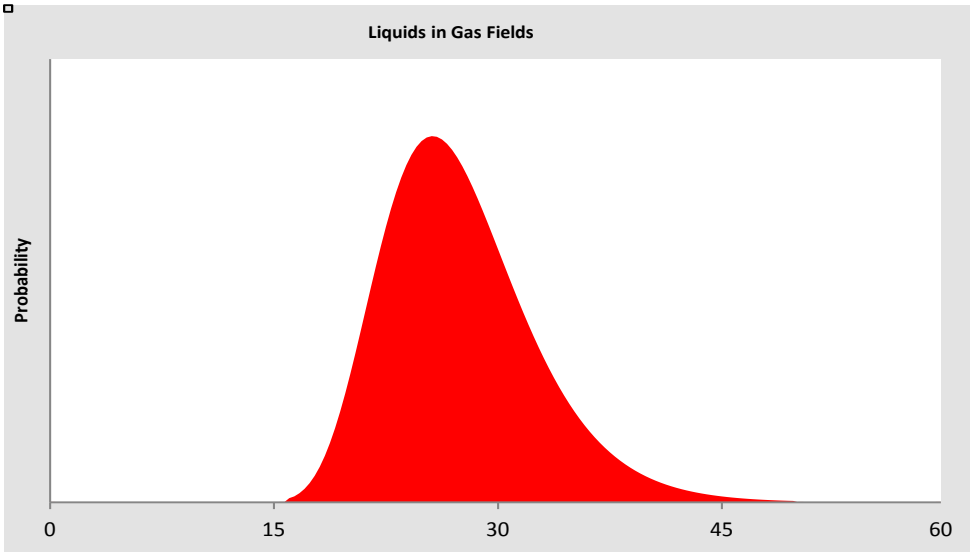
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	38.12	37.78
Median	18.06	17.98
Mode	---	---
Standard Deviation	65.20	63.76
Variance	4,251.08	4,065.35
Skewness	5.88	5.96
Kurtosis	51.94	54.30
Coefficient of Variability	1.71	1.69
Minimum	6.03	6.00
Maximum	990.36	1,000.00
Range Width	984.33	994.00
Mean Standard Error	0.29	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.03	6.00
95%	7.13	7.14
90%	7.92	7.92
85%	8.73	8.73
80%	9.62	9.60
75%	10.57	10.57
70%	11.65	11.66
65%	12.89	12.91
60%	14.36	14.34
55%	16.06	16.01
50%	18.06	17.98
45%	20.33	20.33
40%	23.19	23.20
35%	26.75	26.76
30%	31.35	31.32
25%	37.42	37.36
20%	45.95	45.80
15%	58.63	58.52
10%	80.33	80.40
5%	131.86	130.33
0%	990.36	1,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	8
Mean	19.64	27.64
Standard Deviation	5.13	5.13
Selected range is from -Infinity to 42.00		8.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.63	27.61
Median	27.00	26.99
Mode	---	---
Standard Deviation	5.09	5.06
Variance	25.90	25.63
Skewness	0.7331	0.7112
Kurtosis	3.74	3.67
Coefficient of Variability	0.1842	0.1834
Minimum	15.23	8.00
Maximum	49.93	50.00
Range Width	34.70	42.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	15.23	8.00
95%	20.46	20.45
90%	21.69	21.67
85%	22.57	22.56
80%	23.31	23.31
75%	23.96	23.98
70%	24.61	24.60
65%	25.22	25.21
60%	25.80	25.80
55%	26.40	26.39
50%	27.00	26.99
45%	27.63	27.62
40%	28.28	28.27
35%	28.98	28.97
30%	29.74	29.73
25%	30.59	30.58
20%	31.56	31.56
15%	32.77	32.77
10%	34.42	34.37
5%	36.98	36.91
0%	49.93	50.00

End of Assumptions

Simulation started on 4/1/2011 at 3:45 PM
Simulation stopped on 4/1/2011 at 10:05 PM