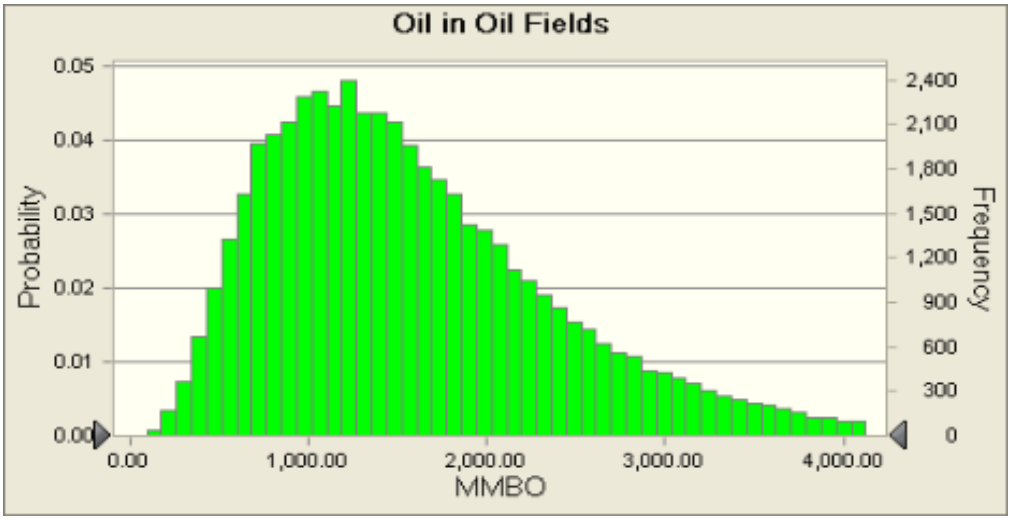
71920101
Agbada Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 2.49 to 8,522.02
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.01



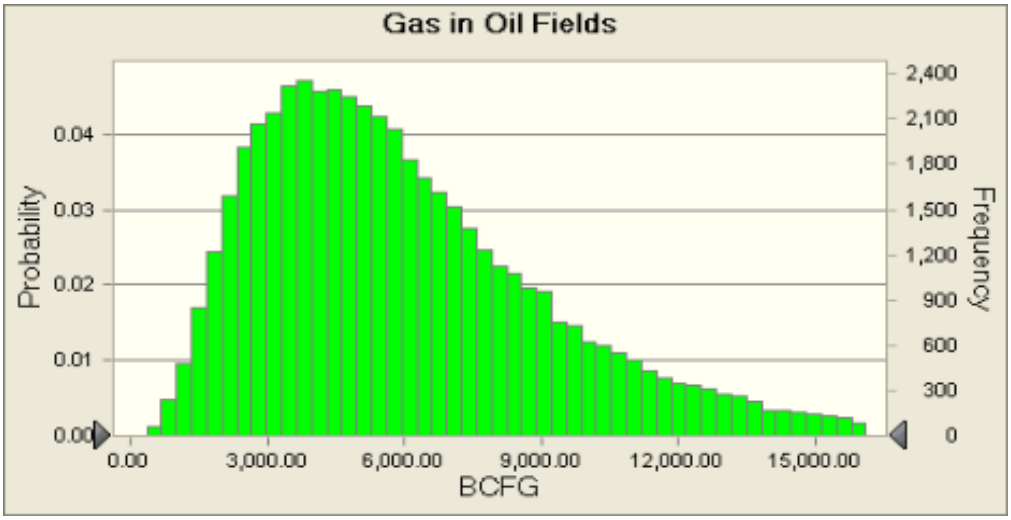
Statistics:	Forecast values
Trials	50,000
Mean	1,616.27
Median	1,436.71
Mode	---
Standard Deviation	896.98
Variance	804,581.92
Skewness	1.34
Kurtosis	5.81
Coefficient of Variability	0.5550
Minimum	2.49
Maximum	8,522.02
Range Width	8,519.52
Mean Standard Error	4.01

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	2.49
95%	525.81
90%	666.24
85%	773.53
80%	877.38
75%	972.70
70%	1,063.29
65%	1,155.92
60%	1,245.83
55%	1,341.35
50%	1,436.70
45%	1,537.50
40%	1,649.10
35%	1,769.16
30%	1,904.10
25%	2,054.83
20%	2,239.76
15%	2,470.94
10%	2,792.22
5%	3,326.15
0%	8,522.02

Forecast: Gas in Oil Fields

Summary:
Entire range is from 13.38 to 37,802.21
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 15.94



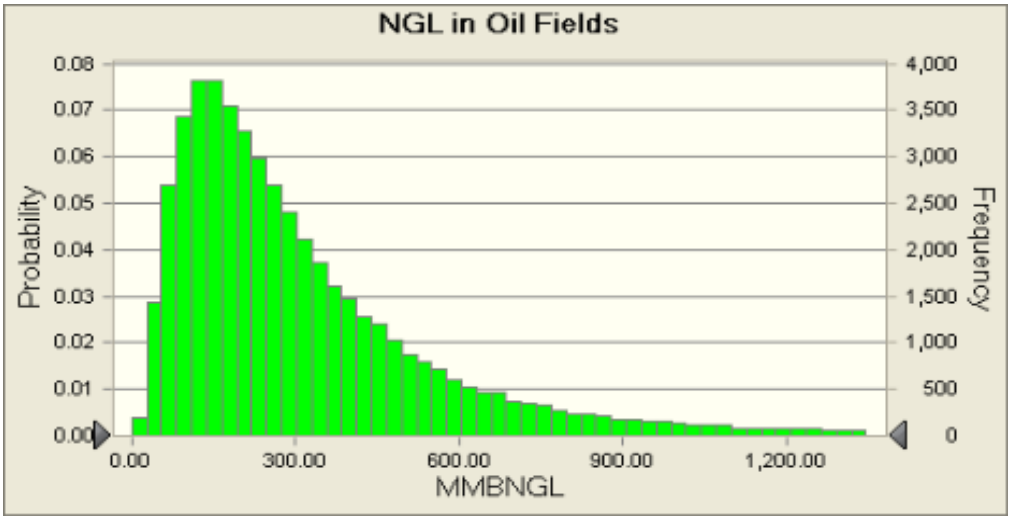
Statistics:	Forecast values
Trials	50,000
Mean	6,139.46
Median	5,387.31
Mode	---
Standard Deviation	3,563.27
Variance	12,696,891.63
Skewness	1.40
Kurtosis	6.02
Coefficient of Variability	0.5804
Minimum	13.38
Maximum	37,802.21
Range Width	37,788.82
Mean Standard Error	15.94

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	13.38
95%	1,904.39
90%	2,422.27
85%	2,830.95
80%	3,215.96
75%	3,574.27
70%	3,927.97
65%	4,284.21
60%	4,642.37
55%	5,008.40
50%	5,387.26
45%	5,778.52
40%	6,219.59
35%	6,699.55
30%	7,230.73
25%	7,854.94
20%	8,599.18
15%	9,522.10
10%	10,841.90
5%	13,010.80
0%	37,802.21

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.05 to 12,124.30
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.61



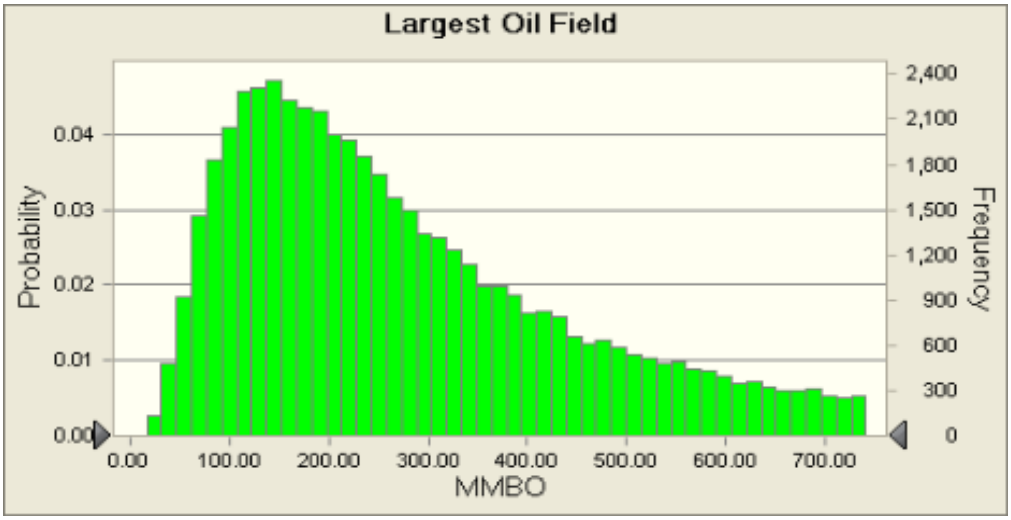
Statistics:	Forecast values
Trials	50,000
Mean	338.90
Median	245.35
Mode	---
Standard Deviation	359.67
Variance	129,362.62
Skewness	7.05
Kurtosis	127.81
Coefficient of Variability	1.06
Minimum	0.05
Maximum	12,124.30
Range Width	12,124.25
Mean Standard Error	1.61

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.05
95%	65.16
90%	87.87
85%	107.88
80%	126.20
75%	144.04
70%	162.06
65%	181.02
60%	200.64
55%	222.22
50%	245.35
45%	270.59
40%	298.56
35%	331.11
30%	368.56
25%	415.04
20%	471.33
15%	547.59
10%	667.82
5%	903.70
0%	12,124.30

Forecast: Largest Oil Field

Summary:
Entire range is from 1.28 to 750.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.75



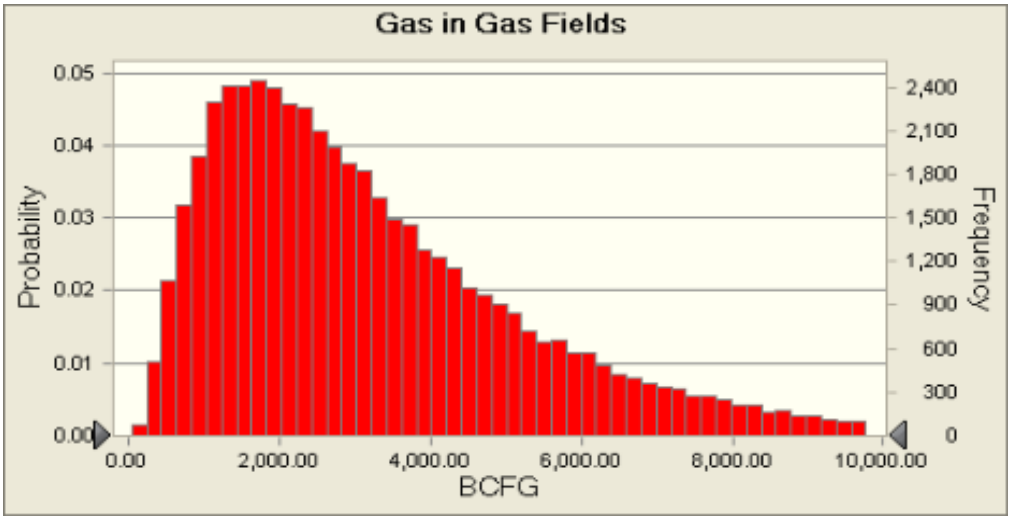
Statistics:	Forecast values
Trials	50,000
Mean	274.00
Median	232.56
Mode	---
Standard Deviation	166.84
Variance	27,837.25
Skewness	0.8781
Kurtosis	3.02
Coefficient of Variability	0.6089
Minimum	1.28
Maximum	750.00
Range Width	748.71
Mean Standard Error	0.75

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	1.28
95%	72.31
90%	92.94
85%	110.96
80%	127.63
75%	143.60
70%	160.18
65%	177.14
60%	194.83
55%	213.45
50%	232.56
45%	253.77
40%	277.64
35%	304.70
30%	334.64
25%	370.74
20%	412.61
15%	465.04
10%	531.89
5%	620.61
0%	750.00

Forecast: Gas in Gas Fields

Summary:
Entire range is from 40.72 to 23,151.20
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 10.31



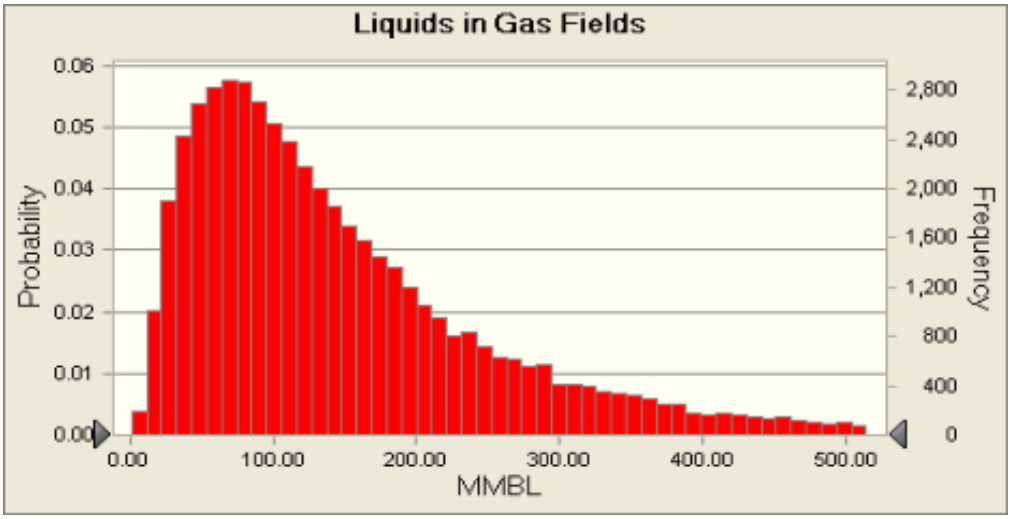
Statistics:	Forecast values
Trials	50,000
Mean	3,315.14
Median	2,742.11
Mode	---
Standard Deviation	2,305.21
Variance	5,314,013.30
Skewness	1.58
Kurtosis	6.80
Coefficient of Variability	0.6954
Minimum	40.72
Maximum	23,151.20
Range Width	23,110.48
Mean Standard Error	10.31

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	40.72
95%	750.82
90%	1,017.82
85%	1,235.22
80%	1,441.77
75%	1,646.42
70%	1,853.64
65%	2,058.46
60%	2,277.98
55%	2,506.12
50%	2,742.10
45%	3,006.77
40%	3,284.89
35%	3,603.76
30%	3,960.77
25%	4,374.23
20%	4,872.37
15%	5,513.60
10%	6,362.29
5%	7,816.78
0%	23,151.20

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.03 to 2,020.31
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.57



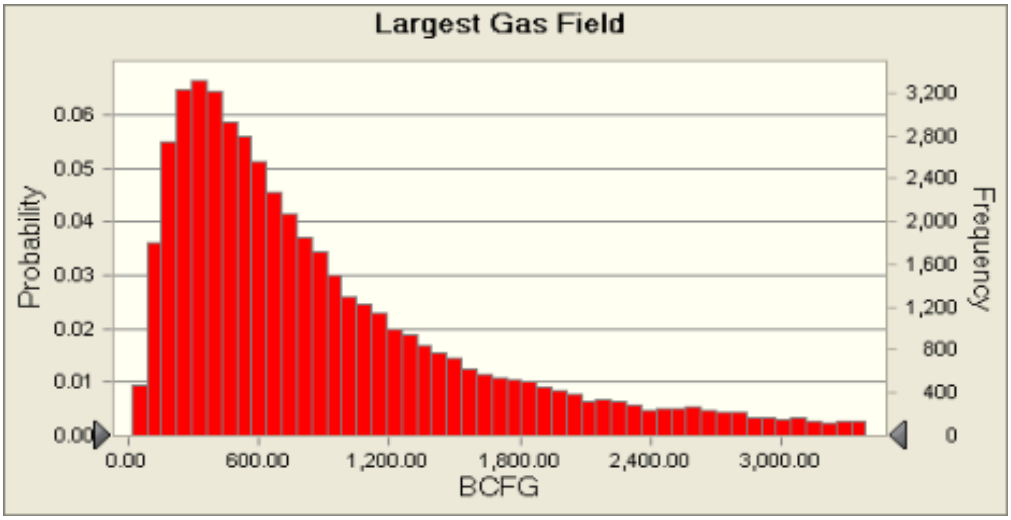
Statistics:	Forecast values
Trials	50,000
Mean	154.70
Median	119.58
Mode	---
Standard Deviation	128.47
Variance	16,504.74
Skewness	2.51
Kurtosis	14.87
Coefficient of Variability	0.8304
Minimum	1.03
Maximum	2,020.31
Range Width	2,019.29
Mean Standard Error	0.57

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.03
95%	29.73
90%	40.85
85%	50.75
80%	60.21
75%	69.21
70%	78.48
65%	87.64
60%	97.52
55%	108.13
50%	119.58
45%	131.64
40%	145.61
35%	160.84
30%	178.46
25%	198.72
20%	225.47
15%	260.93
10%	310.74
5%	396.51
0%	2,020.31

Forecast: Largest Gas Field

Summary:
Entire range is from 17.50 to 4,496.74
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.84



Statistics:	Forecast values
Trials	50,000
Mean	981.29
Median	695.01
Mode	---
Standard Deviation	859.41
Variance	738,580.70
Skewness	1.67
Kurtosis	5.66
Coefficient of Variability	0.8758
Minimum	17.50
Maximum	4,496.74
Range Width	4,479.24
Mean Standard Error	3.84

Forecast: Largest Gas Field (continued)

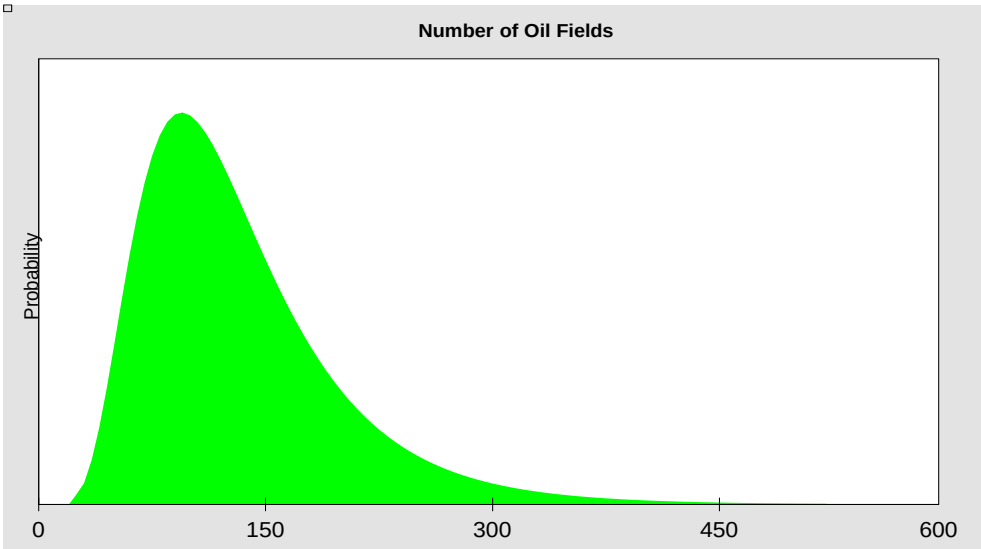
Percentiles:	BCFG
100%	17.50
95%	161.38
90%	223.03
85%	276.82
80%	328.69
75%	380.04
70%	435.09
65%	492.94
60%	554.03
55%	620.90
50%	695.00
45%	777.00
40%	870.50
35%	981.54
30%	1,117.09
25%	1,279.13
20%	1,488.98
15%	1,778.96
10%	2,192.61
5%	2,885.20
0%	4,496.74

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	133.51	134.51
Standard Deviation	67.92	67.92
Selected range is from -Infinity to 524.00		1.00 to 525.00



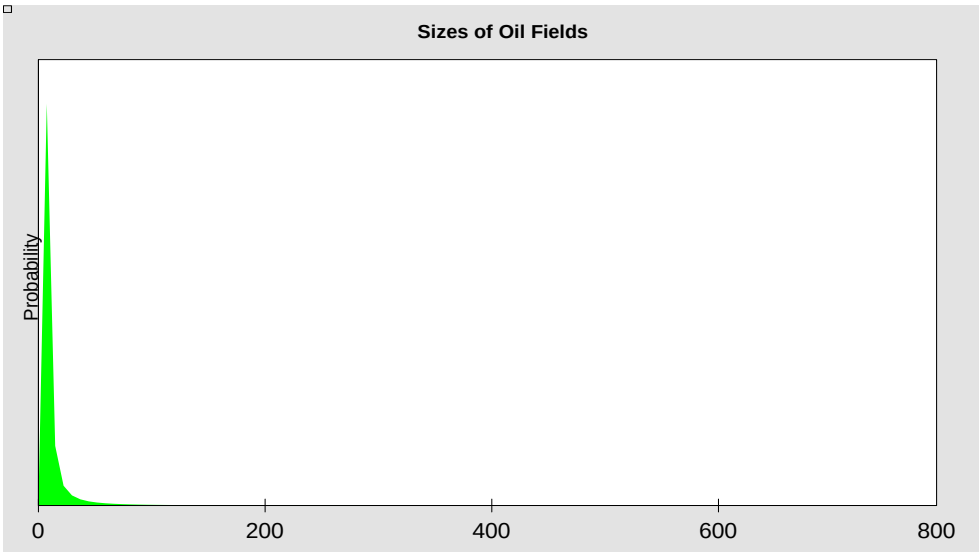
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	134.05	134.04
Median	120.31	119.93
Mode	---	---
Standard Deviation	65.80	66.25
Variance	4,329.44	4,389.13
Skewness	1.40	1.41
Kurtosis	5.99	5.95
Coefficient of Variability	0.4909	0.4943
Minimum	13.00	1.00
Maximum	524.86	525.00
Range Width	511.86	524.00
Mean Standard Error	0.29	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.00	1.00
95%	55.10	55.04
90%	65.55	65.33
85%	73.62	73.36
80%	80.73	80.44
75%	87.22	87.07
70%	93.68	93.49
65%	100.18	99.87
60%	106.76	106.33
55%	113.43	112.98
50%	120.31	119.93
45%	127.63	127.31
40%	135.66	135.28
35%	144.28	144.04
30%	153.96	153.89
25%	165.20	165.28
20%	179.13	178.95
15%	195.97	196.31
10%	219.78	220.53
5%	260.92	261.82
0%	524.86	525.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	12.58	13.58
Standard Deviation	78.08	78.08
Selected range is from -Infinity to 749.00		1.00 to 750.00



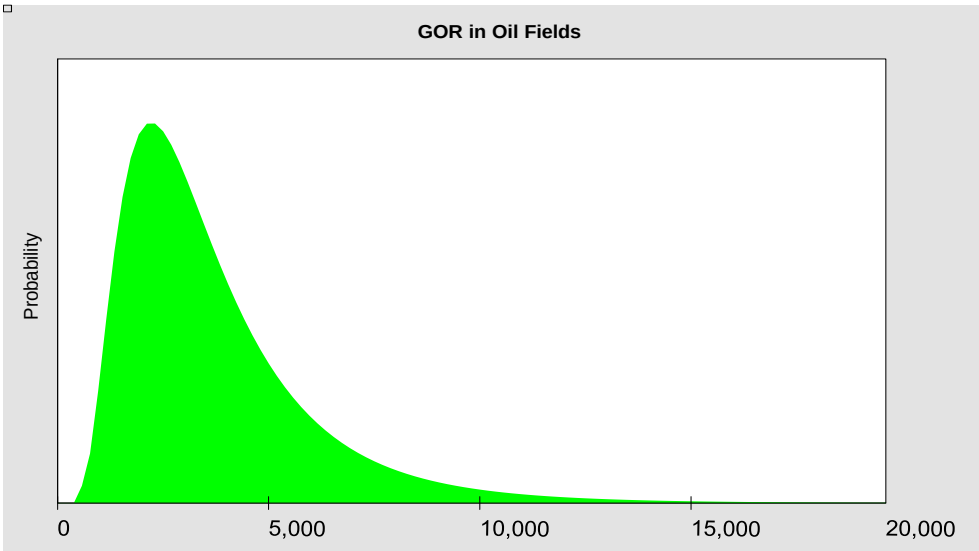
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	11.93	12.35
Median	3.00	3.00
Mode	---	---
Standard Deviation	35.51	36.05
Variance	1,260.66	1,299.79
Skewness	9.06	9.19
Kurtosis	114.64	119.04
Coefficient of Variability	2.98	2.92
Minimum	1.00	1.00
Maximum	747.97	750.00
Range Width	746.97	749.00
Mean Standard Error	0.16	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.08	1.09
90%	1.17	1.17
85%	1.27	1.27
80%	1.39	1.40
75%	1.55	1.55
70%	1.73	1.73
65%	1.95	1.95
60%	2.23	2.23
55%	2.57	2.57
50%	3.00	3.00
45%	3.55	3.54
40%	4.23	4.24
35%	5.13	5.17
30%	6.39	6.45
25%	8.15	8.26
20%	10.87	10.99
15%	15.55	15.49
10%	24.11	24.13
5%	46.71	47.06
0%	747.97	750.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	3,615.00	3,815.00
Standard Deviation	2,430.46	2,430.46
Selected range is from -Infinity to 19,800.00		200.00 to 20,000.00



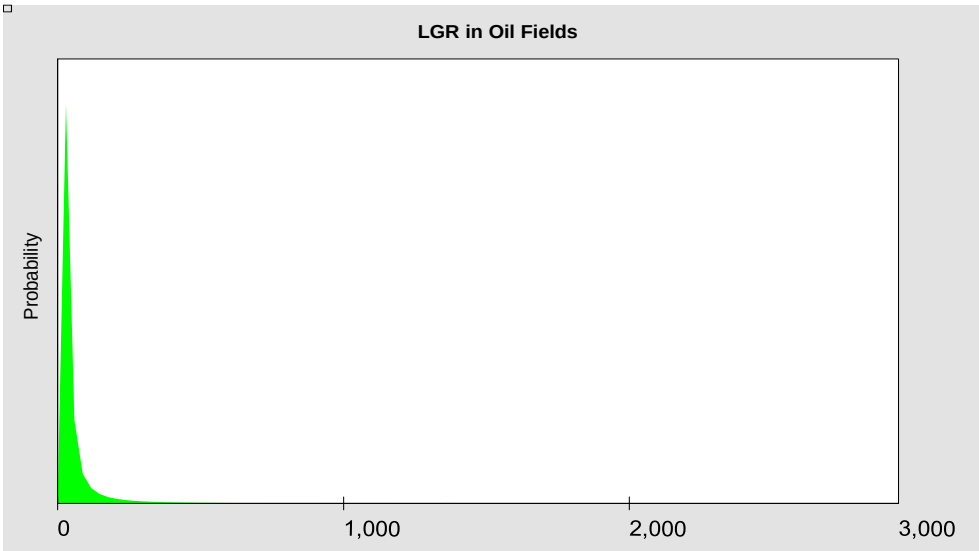
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,795.39	3,794.79
Median	3,199.19	3,197.70
Mode	---	---
Standard Deviation	2,337.41	2,342.31
Variance	5,463,505.79	5,486,407.04
Skewness	1.88	1.87
Kurtosis	8.41	8.28
Coefficient of Variability	0.6159	0.6172
Minimum	446.53	200.00
Maximum	19,908.99	20,000.00
Range Width	19,462.46	19,800.00
Mean Standard Error	10.45	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	446.53	200.00
95%	1,296.85	1,298.34
90%	1,577.22	1,571.11
85%	1,797.24	1,792.44
80%	1,995.54	1,993.55
75%	2,186.10	2,186.19
70%	2,380.32	2,376.75
65%	2,569.94	2,569.59
60%	2,771.66	2,768.34
55%	2,982.76	2,976.46
50%	3,198.95	3,197.70
45%	3,447.88	3,436.54
40%	3,712.17	3,698.67
35%	4,000.39	3,991.86
30%	4,334.26	4,327.35
25%	4,735.54	4,722.58
20%	5,222.01	5,207.05
15%	5,822.89	5,836.94
10%	6,734.57	6,741.29
5%	8,267.14	8,346.11
0%	19,908.99	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	60.87	61.07
Standard Deviation	283.01	283.01
Selected range is from -Infinity to 2,999.80		0.20 to 3,000.00



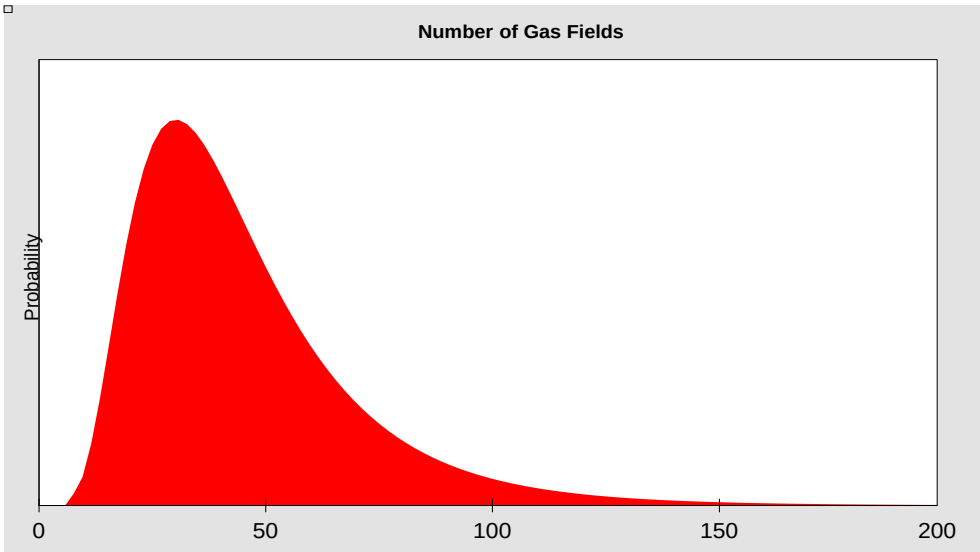
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	55.26	56.16
Median	12.96	12.97
Mode	---	---
Standard Deviation	158.35	156.52
Variance	25,073.95	24,497.97
Skewness	8.14	8.16
Kurtosis	94.76	95.76
Coefficient of Variability	2.87	2.79
Minimum	0.21	0.20
Maximum	2,996.56	3,000.00
Range Width	2,996.36	2,999.80
Mean Standard Error	0.71	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.21	0.20
95%	0.89	0.90
90%	1.51	1.53
85%	2.22	2.25
80%	3.08	3.09
75%	4.05	4.08
70%	5.22	5.26
65%	6.67	6.67
60%	8.32	8.37
55%	10.39	10.43
50%	12.96	12.97
45%	16.08	16.14
40%	20.02	20.17
35%	25.16	25.40
30%	32.00	32.40
25%	41.60	42.15
20%	55.46	56.50
15%	77.98	79.51
10%	120.56	122.15
5%	225.73	230.19
0%	2,996.56	3,000.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	44.82	45.82
Standard Deviation	25.38	25.38
Selected range is from -Infinity to 199.00		1.00 to 200.00



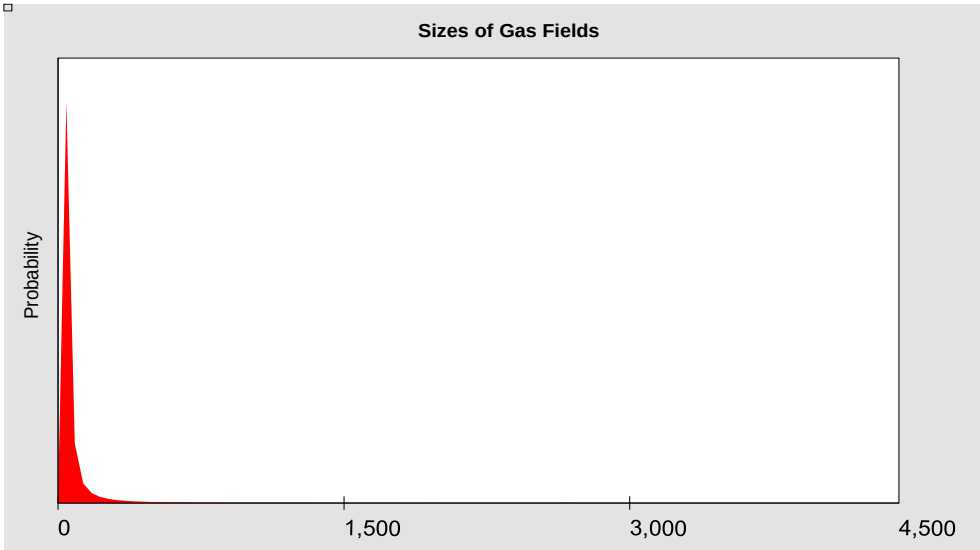
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	45.64	45.63
Median	40.00	39.97
Mode	---	---
Standard Deviation	24.60	24.66
Variance	605.29	608.25
Skewness	1.55	1.57
Kurtosis	6.59	6.70
Coefficient of Variability	0.5390	0.5405
Minimum	5.25	1.00
Maximum	199.40	200.00
Range Width	194.16	199.00
Mean Standard Error	0.11	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.25	1.00
95%	17.29	17.38
90%	20.75	20.83
85%	23.55	23.57
80%	26.04	26.01
75%	28.30	28.31
70%	30.58	30.56
65%	32.83	32.81
60%	35.16	35.10
55%	37.52	37.48
50%	40.00	39.97
45%	42.72	42.64
40%	45.61	45.54
35%	48.82	48.74
30%	52.52	52.37
25%	56.59	56.59
20%	61.79	61.70
15%	68.32	68.24
10%	77.71	77.46
5%	93.08	93.41
0%	199.40	200.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	75.46	81.46
Standard Deviation	468.51	468.51
Selected range is from -Infinity to 4,494.00		6.00 to 4,500.00



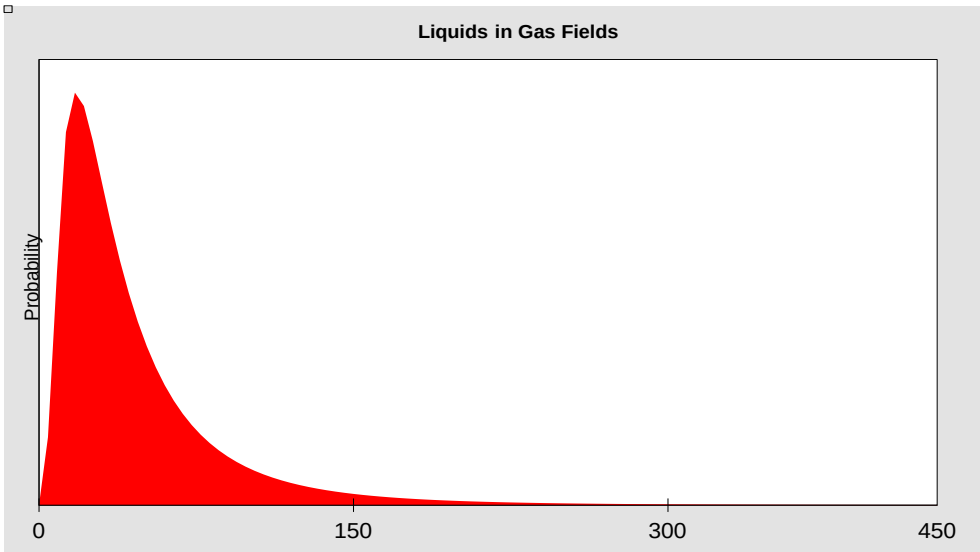
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	74.01	74.07
Median	18.07	17.97
Mode	---	---
Standard Deviation	221.80	216.32
Variance	49,193.28	46,792.49
Skewness	9.02	9.19
Kurtosis	113.97	119.04
Coefficient of Variability	3.00	2.92
Minimum	6.00	6.00
Maximum	4,489.03	4,500.00
Range Width	4,483.03	4,494.00
Mean Standard Error	0.99	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.00	6.00
95%	6.51	6.51
90%	7.02	7.03
85%	7.63	7.64
80%	8.36	8.39
75%	9.25	9.29
70%	10.34	10.38
65%	11.72	11.72
60%	13.43	13.37
55%	15.49	15.41
50%	18.07	17.97
45%	21.44	21.23
40%	25.82	25.45
35%	31.41	31.04
30%	39.27	38.68
25%	50.55	49.55
20%	67.00	65.94
15%	93.80	92.96
10%	147.07	144.75
5%	292.63	282.34
0%	4,489.03	4,500.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	46.97	47.17
Standard Deviation	48.14	48.14
Selected range is from -Infinity to 449.80		0.20 to 450.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	46.45	46.63
Median	32.84	32.97
Mode	---	---
Standard Deviation	44.47	44.76
Variance	1,977.72	2,003.30
Skewness	2.83	2.83
Kurtosis	15.20	15.11
Coefficient of Variability	0.9574	0.9599
Minimum	1.45	0.20
Maximum	448.11	450.00
Range Width	446.66	449.80
Mean Standard Error	0.20	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.45	0.20
95%	8.30	8.34
90%	11.23	11.27
85%	13.82	13.82
80%	16.24	16.27
75%	18.71	18.71
70%	21.16	21.22
65%	23.75	23.84
60%	26.57	26.64
55%	29.60	29.66
50%	32.84	32.97
45%	36.57	36.64
40%	40.73	40.80
35%	45.32	45.60
30%	50.84	51.26
25%	57.86	58.17
20%	66.63	66.96
15%	79.00	78.90
10%	97.43	96.94
5%	130.94	131.37
0%	448.11	450.00

End of Assumptions

Simulation started on 8/4/2009 at 0:27:14
Simulation stopped on 8/4/2009 at 10:54:16