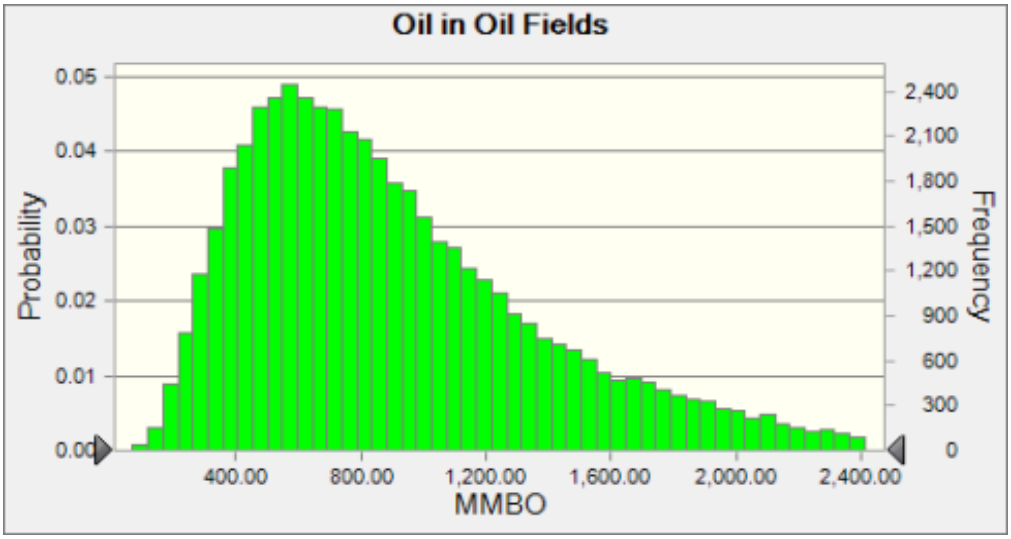
52150103
Flemish Pass Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 70.06 to 4,709.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.37



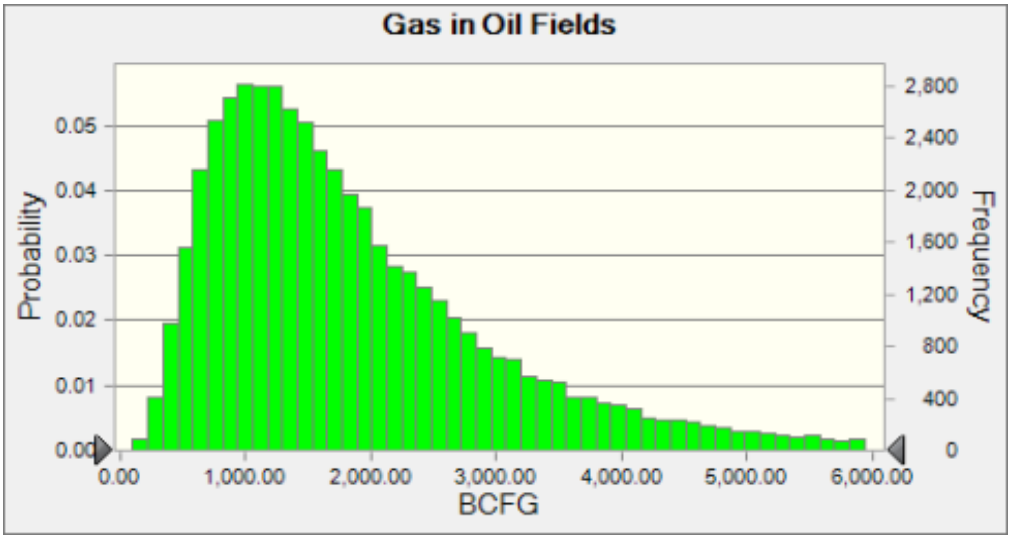
Statistics:	Forecast values
Trials	50,000
Mean	926.87
Median	805.98
Mode	---
Standard Deviation	529.72
Variance	280,608.52
Skewness	1.38
Kurtosis	5.69
Coefficient of Variability	0.5715
Minimum	70.06
Maximum	4,709.22
Range Width	4,639.17
Mean Standard Error	2.37

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	70.06
95%	305.48
90%	381.57
85%	441.20
80%	493.66
75%	544.44
70%	593.41
65%	644.28
60%	695.99
55%	750.10
50%	805.94
45%	865.15
40%	930.45
35%	1,001.11
30%	1,084.66
25%	1,179.20
20%	1,294.20
15%	1,444.89
10%	1,651.84
5%	1,964.50
0%	4,709.22

Forecast: Gas in Oil Fields

Summary:
Entire range is from 103.15 to 21,496.60
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.37



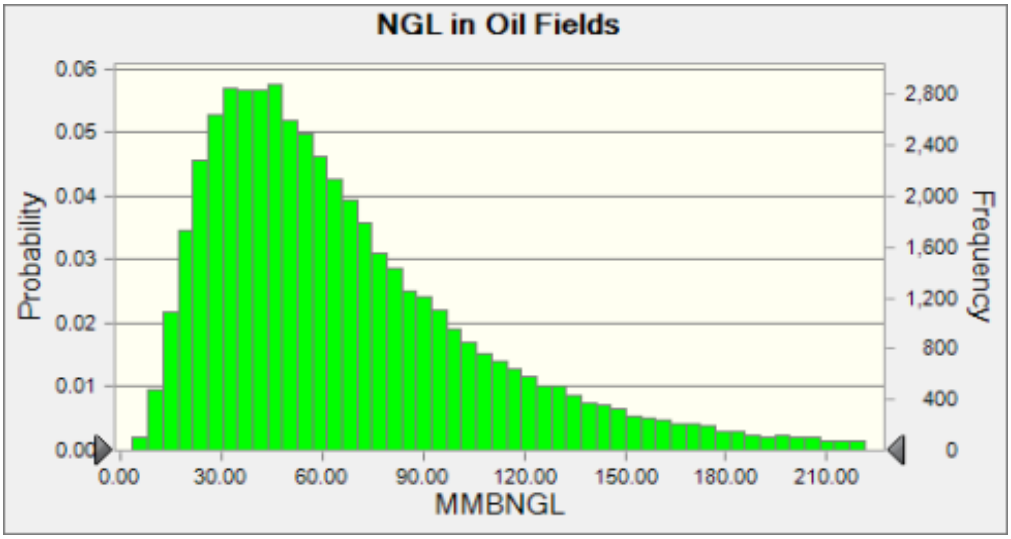
Statistics:	Forecast values
Trials	50,000
Mean	1,949.80
Median	1,583.05
Mode	---
Standard Deviation	1,423.70
Variance	2,026,909.53
Skewness	2.68
Kurtosis	16.98
Coefficient of Variability	0.7302
Minimum	103.15
Maximum	21,496.60
Range Width	21,393.45
Mean Standard Error	6.37

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	103.15
95%	542.58
90%	687.64
85%	807.07
80%	918.00
75%	1,023.55
70%	1,129.58
65%	1,234.23
60%	1,345.03
55%	1,461.63
50%	1,582.98
45%	1,715.81
40%	1,861.22
35%	2,023.15
30%	2,219.70
25%	2,444.12
20%	2,711.88
15%	3,081.42
10%	3,609.09
5%	4,559.76
0%	21,496.60

Forecast: NGL in Oil Fields

Summary:
Entire range is from 3.76 to 1,174.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.24



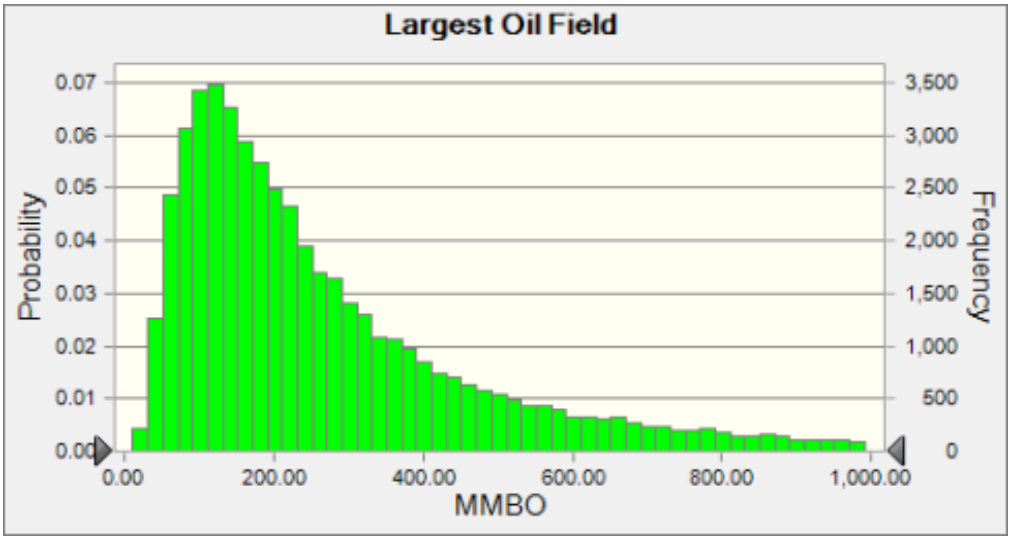
Statistics:	Forecast values
Trials	50,000
Mean	71.14
Median	57.37
Mode	---
Standard Deviation	53.55
Variance	2,867.86
Skewness	3.04
Kurtosis	23.17
Coefficient of Variability	0.7528
Minimum	3.76
Maximum	1,174.07
Range Width	1,170.31
Mean Standard Error	0.24

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	3.76
95%	19.34
90%	24.69
85%	29.08
80%	33.02
75%	36.86
70%	40.67
65%	44.68
60%	48.59
55%	52.84
50%	57.37
45%	62.22
40%	67.55
35%	73.35
30%	80.50
25%	88.88
20%	98.83
15%	112.74
10%	131.89
5%	167.54
0%	1,174.07

Forecast: Largest Oil Field

Summary:
Entire range is from 11.92 to 1,499.38
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.12



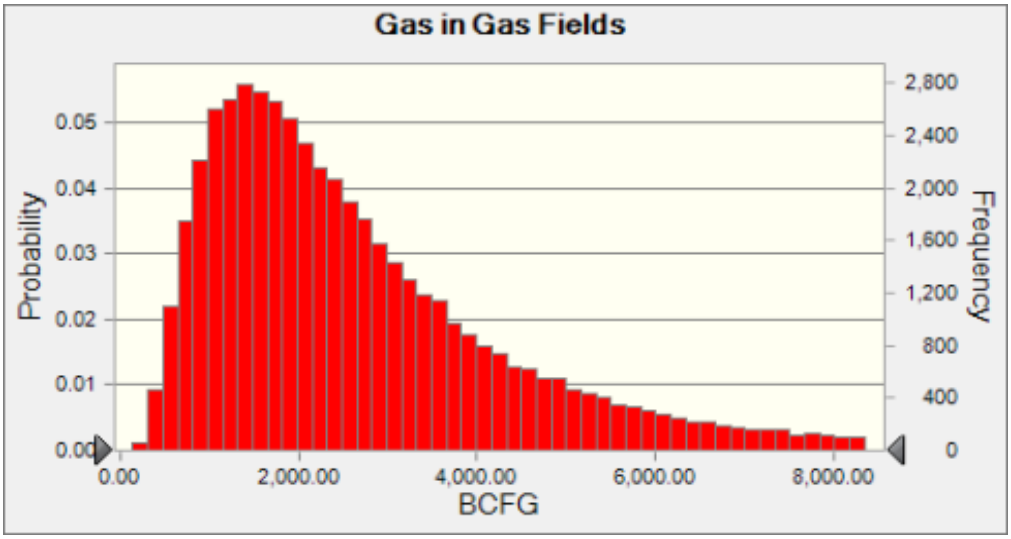
Statistics:	Forecast values
Trials	50,000
Mean	290.56
Median	208.73
Mode	---
Standard Deviation	249.89
Variance	62,446.72
Skewness	1.97
Kurtosis	7.33
Coefficient of Variability	0.8600
Minimum	11.92
Maximum	1,499.38
Range Width	1,487.46
Mean Standard Error	1.12

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	11.92
95%	61.07
90%	79.54
85%	94.68
80%	109.56
75%	123.99
70%	138.30
65%	154.03
60%	171.05
55%	188.96
50%	208.73
45%	230.31
40%	256.28
35%	285.49
30%	321.68
25%	365.61
20%	421.65
15%	499.07
10%	617.65
5%	829.86
0%	1,499.38

Forecast: Gas in Gas Fields

Summary:
Entire range is from 138.07 to 22,150.73
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.90



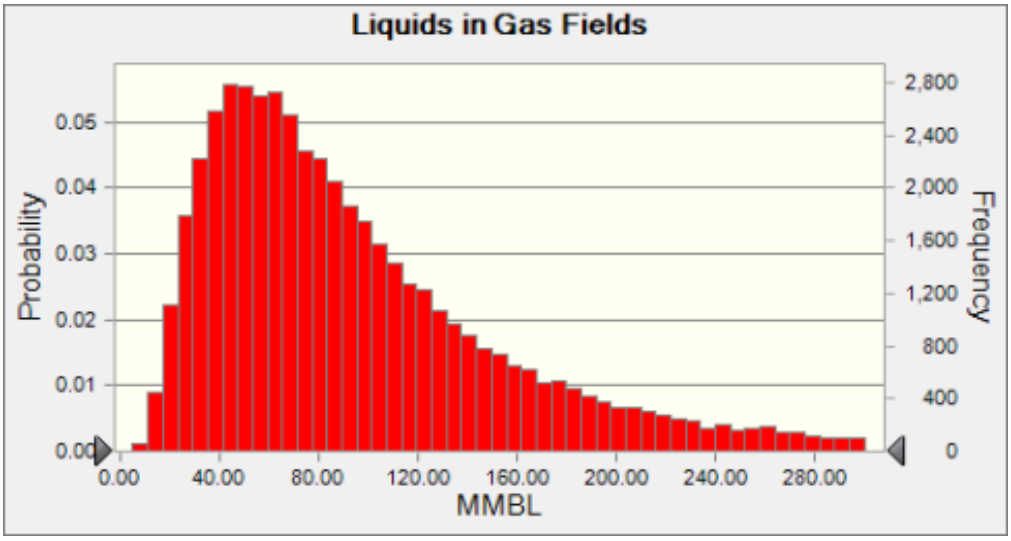
Statistics:	Forecast values
Trials	50,000
Mean	2,777.79
Median	2,234.81
Mode	---
Standard Deviation	1,989.29
Variance	3,957,282.92
Skewness	1.89
Kurtosis	8.07
Coefficient of Variability	0.7161
Minimum	138.07
Maximum	22,150.73
Range Width	22,012.66
Mean Standard Error	8.90

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	138.07
95%	731.39
90%	936.97
85%	1,100.56
80%	1,259.31
75%	1,411.09
70%	1,563.54
65%	1,718.48
60%	1,878.84
55%	2,048.29
50%	2,234.65
45%	2,434.74
40%	2,651.31
35%	2,892.87
30%	3,180.40
25%	3,522.78
20%	3,945.14
15%	4,516.90
10%	5,325.12
5%	6,775.27
0%	22,150.73

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 4.72 to 853.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.32



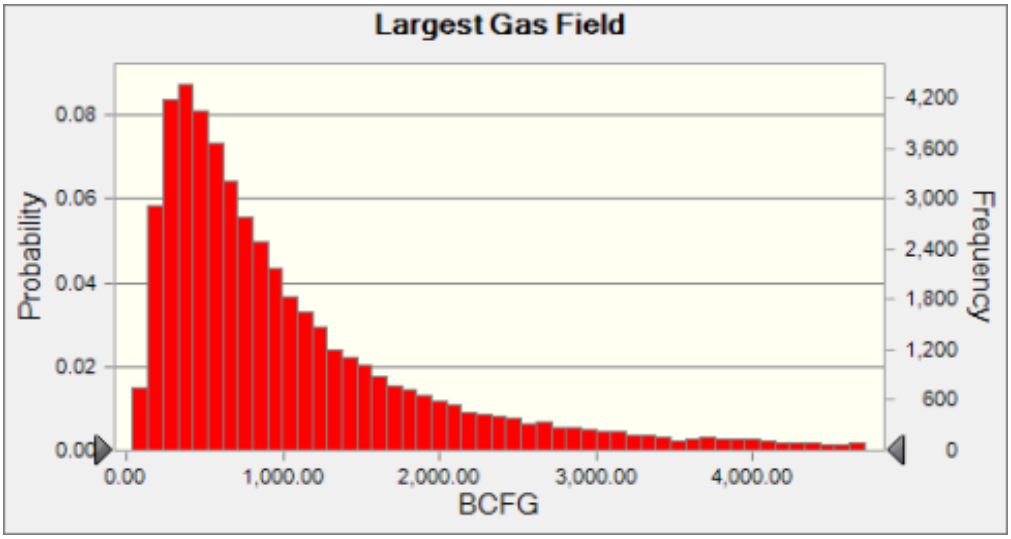
Statistics:	Forecast values
Trials	50,000
Mean	99.33
Median	79.59
Mode	---
Standard Deviation	71.85
Variance	5,162.28
Skewness	1.94
Kurtosis	8.53
Coefficient of Variability	0.7233
Minimum	4.72
Maximum	853.96
Range Width	849.24
Mean Standard Error	0.32

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	4.72
95%	25.92
90%	33.32
85%	39.13
80%	44.85
75%	50.19
70%	55.71
65%	61.22
60%	66.80
55%	72.98
50%	79.59
45%	86.75
40%	94.58
35%	103.32
30%	113.59
25%	125.75
20%	141.09
15%	161.30
10%	190.20
5%	243.67
0%	853.96

Forecast: Largest Gas Field

Summary:
Entire range is from 39.29 to 8,999.21
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.63



Statistics:	Forecast values
Trials	50,000
Mean	1,193.42
Median	769.74
Mode	---
Standard Deviation	1,258.17
Variance	1,582,982.79
Skewness	2.63
Kurtosis	11.49
Coefficient of Variability	1.05
Minimum	39.29
Maximum	8,999.21
Range Width	8,959.93
Mean Standard Error	5.63

Forecast: Largest Gas Field (continued)

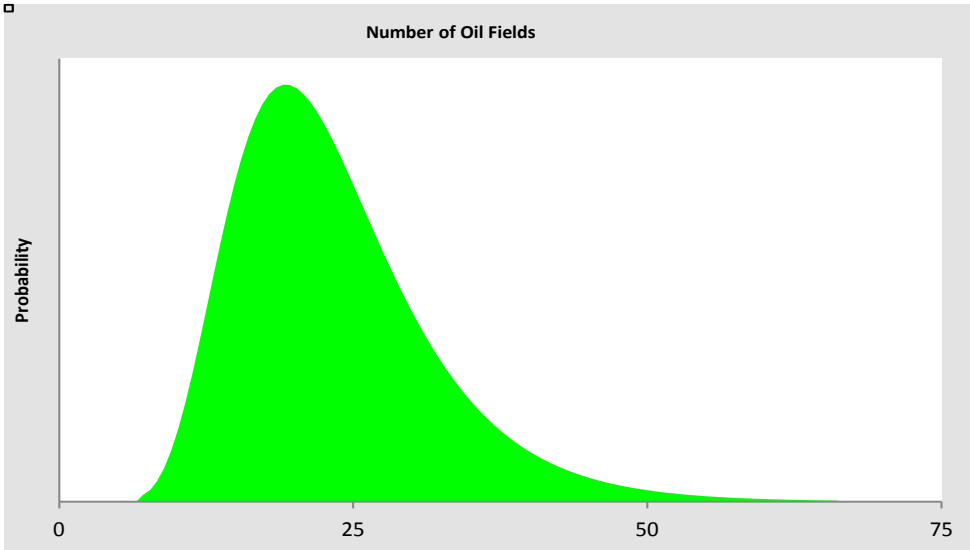
Percentiles:	BCFG
100%	39.29
95%	198.16
90%	261.43
85%	317.95
80%	371.84
75%	427.78
70%	484.48
65%	548.16
60%	614.47
55%	687.73
50%	769.69
45%	862.89
40%	967.47
35%	1,093.69
30%	1,241.74
25%	1,440.48
20%	1,692.37
15%	2,052.77
10%	2,623.82
5%	3,766.14
0%	8,999.21

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	22.45	23.45
Standard Deviation	8.49	8.49
Selected range is from -Infinity to 65.00		1.00 to 66.00



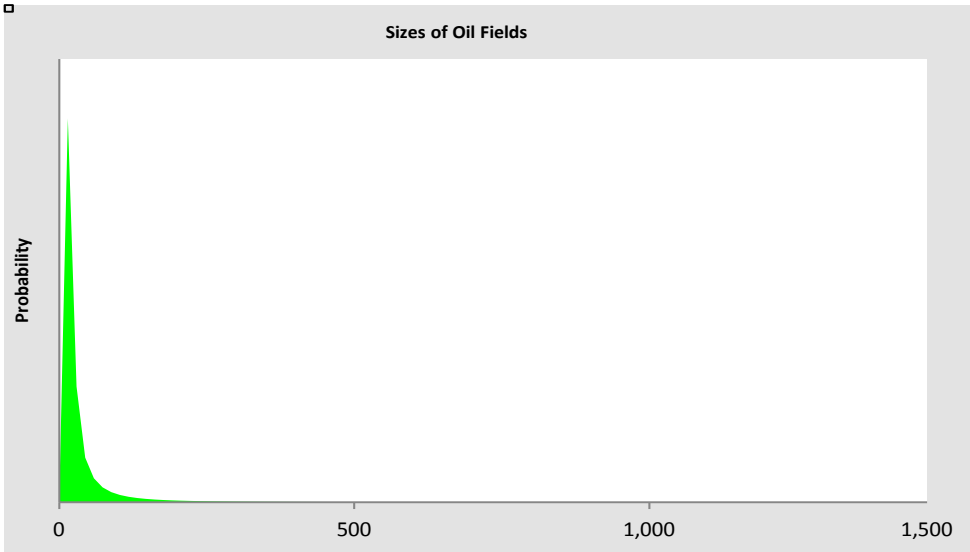
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	23.44	23.40
Median	22.03	21.99
Mode	---	---
Standard Deviation	8.36	8.35
Variance	69.90	69.64
Skewness	1.05	1.04
Kurtosis	4.61	4.56
Coefficient of Variability	0.3567	0.3566
Minimum	6.18	1.00
Maximum	65.95	66.00
Range Width	59.77	65.00
Mean Standard Error	0.04	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.18	1.00
95%	12.53	12.51
90%	14.16	14.14
85%	15.41	15.37
80%	16.48	16.43
75%	17.46	17.41
70%	18.39	18.33
65%	19.28	19.23
60%	20.18	20.13
55%	21.10	21.05
50%	22.03	21.99
45%	22.98	22.98
40%	24.02	24.03
35%	25.17	25.16
30%	26.42	26.42
25%	27.86	27.85
20%	29.61	29.54
15%	31.70	31.64
10%	34.49	34.49
5%	39.26	39.19
0%	65.95	66.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	37.17	42.17
Standard Deviation	133.09	133.09
Selected range is from -Infinity to 1,495.00		5.00 to 1,500.00



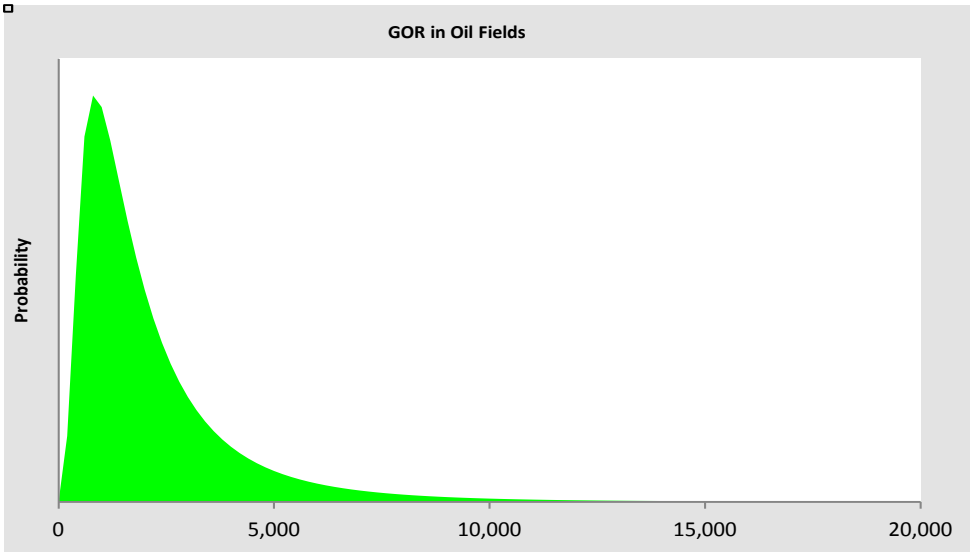
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	39.62	39.75
Median	14.90	14.98
Mode	---	---
Standard Deviation	85.71	84.88
Variance	7,345.76	7,204.21
Skewness	7.28	7.18
Kurtosis	78.15	76.06
Coefficient of Variability	2.16	2.14
Minimum	5.01	5.00
Maximum	1,485.57	1,500.00
Range Width	1,480.56	1,495.00
Mean Standard Error	0.38	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.01	5.00
95%	5.70	5.70
90%	6.25	6.25
85%	6.86	6.86
80%	7.55	7.55
75%	8.33	8.35
70%	9.25	9.27
65%	10.33	10.35
60%	11.58	11.62
55%	13.09	13.14
50%	14.90	14.98
45%	17.07	17.23
40%	19.87	20.04
35%	23.47	23.62
30%	28.09	28.32
25%	34.46	34.72
20%	43.78	43.93
15%	57.85	58.31
10%	84.95	84.13
5%	146.75	146.63
0%	1,485.57	1,500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	2,099.51	2,129.51
Standard Deviation	2,140.96	2,140.96
Selected range is from -Infinity to 19,970.00		30.00 to 20,000.00



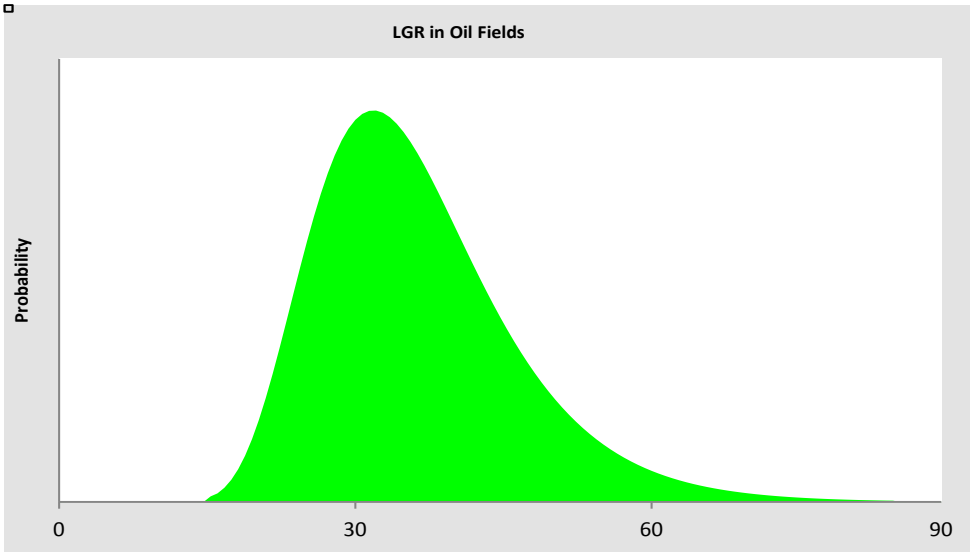
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,112.34	2,105.62
Median	1,507.37	1,498.44
Mode	---	---
Standard Deviation	1,981.69	1,991.93
Variance	3,927,087.96	3,967,782.64
Skewness	2.71	2.82
Kurtosis	13.97	14.99
Coefficient of Variability	0.9381	0.9460
Minimum	72.19	30.00
Maximum	19,954.05	20,000.00
Range Width	19,881.86	19,970.00
Mean Standard Error	8.86	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	72.19	30.00
95%	395.18	396.43
90%	527.89	527.94
85%	645.12	642.40
80%	756.15	751.85
75%	860.47	861.19
70%	975.67	973.43
65%	1,097.20	1,090.91
60%	1,221.54	1,215.87
55%	1,356.77	1,350.75
50%	1,507.36	1,498.44
45%	1,672.76	1,662.62
40%	1,860.37	1,848.22
35%	2,071.00	2,062.19
30%	2,322.08	2,314.91
25%	2,632.78	2,622.85
20%	3,021.80	3,014.56
15%	3,569.54	3,545.83
10%	4,374.91	4,348.86
5%	5,971.58	5,879.35
0%	19,954.05	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	31.55	36.55
Standard Deviation	10.27	10.27
Selected range is from -Infinity to 80.00		5.00 to 85.00



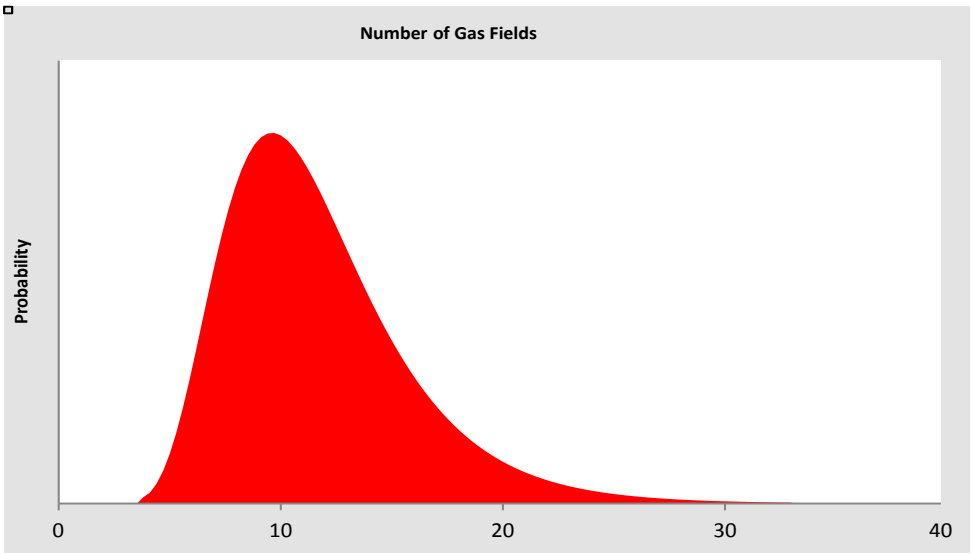
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	36.50	36.49
Median	34.98	34.99
Mode	---	---
Standard Deviation	10.11	10.12
Variance	102.14	102.41
Skewness	0.8961	0.8936
Kurtosis	4.13	4.11
Coefficient of Variability	0.2769	0.2773
Minimum	12.50	5.00
Maximum	84.99	85.00
Range Width	72.49	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.50	5.00
95%	22.80	22.80
90%	24.94	24.97
85%	26.60	26.59
80%	27.98	27.96
75%	29.25	29.21
70%	30.44	30.39
65%	31.57	31.54
60%	32.69	32.67
55%	33.83	33.82
50%	34.98	34.99
45%	36.20	36.21
40%	37.47	37.50
35%	38.89	38.88
30%	40.39	40.41
25%	42.14	42.13
20%	44.18	44.15
15%	46.65	46.64
10%	49.84	49.99
5%	55.43	55.42
0%	84.99	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	10.73	11.73
Standard Deviation	4.19	4.19
Selected range is from -Infinity to 32.00		1.00 to 33.00



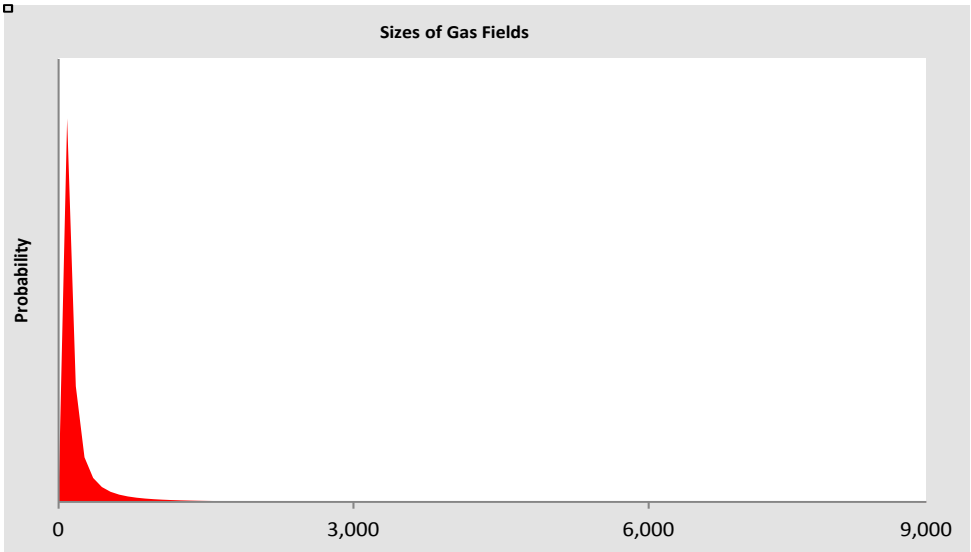
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	11.71	11.71
Median	10.98	11.00
Mode	---	---
Standard Deviation	4.11	4.11
Variance	16.91	16.92
Skewness	1.10	1.08
Kurtosis	4.74	4.67
Coefficient of Variability	0.3510	0.3513
Minimum	3.27	1.00
Maximum	32.96	33.00
Range Width	29.70	32.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.27	1.00
95%	6.41	6.38
90%	7.18	7.17
85%	7.80	7.77
80%	8.31	8.28
75%	8.78	8.76
70%	9.22	9.21
65%	9.65	9.65
60%	10.09	10.09
55%	10.53	10.53
50%	10.98	11.00
45%	11.47	11.48
40%	11.99	11.99
35%	12.54	12.55
30%	13.15	13.17
25%	13.86	13.88
20%	14.69	14.71
15%	15.74	15.75
10%	17.17	17.17
5%	19.52	19.51
0%	32.96	33.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	223.04	253.04
Standard Deviation	798.51	798.51
Selected range is from -Infinity to 8,970.00		30.00 to 9,000.00



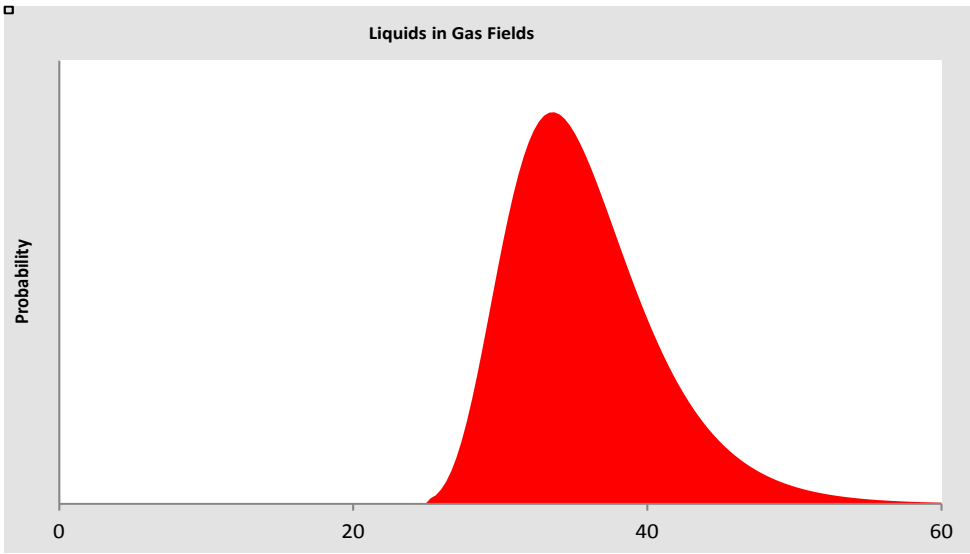
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	237.87	238.48
Median	89.29	89.88
Mode	---	---
Standard Deviation	516.61	509.27
Variance	266,880.82	259,351.48
Skewness	7.22	7.18
Kurtosis	75.87	76.06
Coefficient of Variability	2.17	2.14
Minimum	30.06	30.00
Maximum	8,990.33	9,000.00
Range Width	8,960.27	8,970.00
Mean Standard Error	2.31	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.06	30.00
95%	34.13	34.17
90%	37.47	37.51
85%	41.02	41.18
80%	45.34	45.32
75%	50.21	50.09
70%	55.62	55.61
65%	62.06	62.09
60%	69.29	69.73
55%	78.38	78.86
50%	89.29	89.88
45%	102.67	103.39
40%	119.32	120.23
35%	140.19	141.71
30%	168.19	169.89
25%	206.24	208.31
20%	261.77	263.59
15%	347.28	349.89
10%	504.30	504.75
5%	895.22	879.78
0%	8,990.33	9,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	20
Mean	15.78	35.78
Standard Deviation	5.14	5.14
Selected range is from -Infinity to 40.00		20.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	35.74	35.75
Median	34.97	34.99
Mode	---	---
Standard Deviation	5.04	5.06
Variance	25.42	25.60
Skewness	0.9047	0.8936
Kurtosis	4.16	4.11
Coefficient of Variability	0.1411	0.1416
Minimum	23.84	20.00
Maximum	59.99	60.00
Range Width	36.14	40.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	23.84	20.00
95%	28.89	28.90
90%	29.99	29.98
85%	30.80	30.79
80%	31.51	31.48
75%	32.15	32.11
70%	32.72	32.70
65%	33.30	33.27
60%	33.85	33.84
55%	34.39	34.41
50%	34.97	34.99
45%	35.58	35.60
40%	36.22	36.25
35%	36.90	36.94
30%	37.65	37.71
25%	38.51	38.57
20%	39.55	39.58
15%	40.80	40.82
10%	42.47	42.49
5%	45.11	45.21
0%	59.99	60.00

End of Assumptions

Simulation started on 9/26/2011 at 3:59 PM
Simulation stopped on 9/26/2011 at 4:03 PM