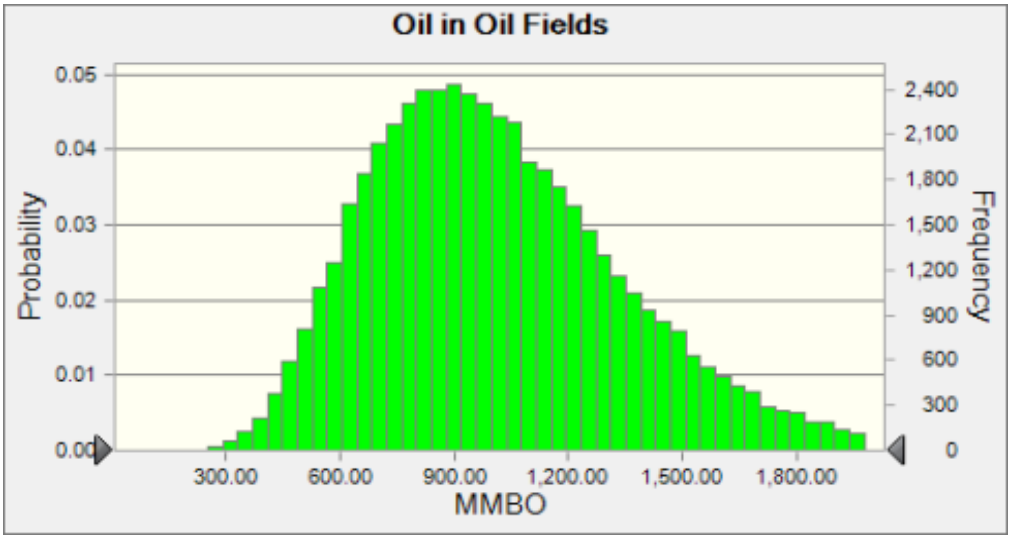
20560101
Illizi Paleozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 42.09 to 3,189.97
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.53



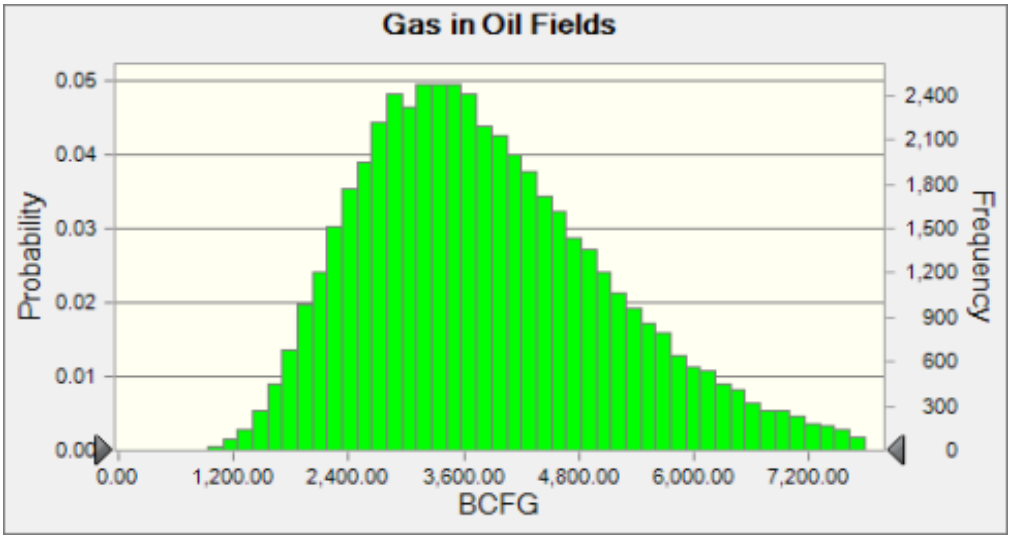
Statistics:	Forecast values
Trials	50,000
Mean	1,016.82
Median	973.43
Mode	---
Standard Deviation	343.15
Variance	117,749.70
Skewness	0.7529
Kurtosis	3.79
Coefficient of Variability	0.3375
Minimum	42.09
Maximum	3,189.97
Range Width	3,147.89
Mean Standard Error	1.53

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	42.09
95%	537.34
90%	615.91
85%	672.65
80%	721.28
75%	766.29
70%	808.37
65%	849.06
60%	890.50
55%	931.36
50%	973.43
45%	1,015.67
40%	1,060.51
35%	1,109.05
30%	1,162.00
25%	1,219.59
20%	1,287.62
15%	1,370.92
10%	1,478.10
5%	1,649.60
0%	3,189.97

Forecast: Gas in Oil Fields

Summary:
Entire range is from 146.27 to 13,293.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.22



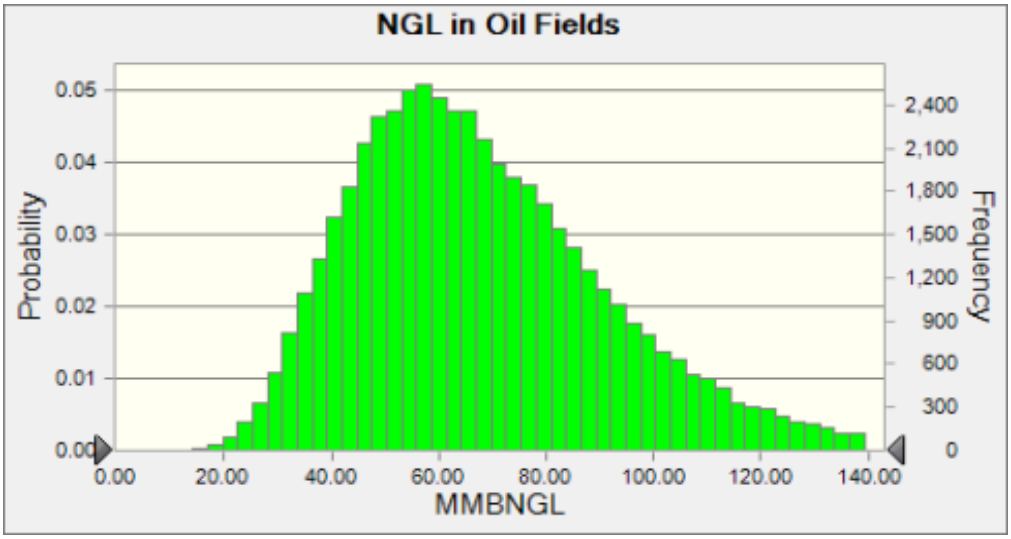
Statistics:	Forecast values
Trials	50,000
Mean	3,883.85
Median	3,672.68
Mode	---
Standard Deviation	1,391.20
Variance	1,935,427.11
Skewness	0.8946
Kurtosis	4.24
Coefficient of Variability	0.3582
Minimum	146.27
Maximum	13,293.53
Range Width	13,147.25
Mean Standard Error	6.22

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	146.27
95%	1,997.56
90%	2,295.68
85%	2,515.69
80%	2,703.59
75%	2,876.09
70%	3,036.80
65%	3,200.79
60%	3,356.97
55%	3,516.18
50%	3,672.61
45%	3,847.93
40%	4,027.41
35%	4,221.94
30%	4,433.22
25%	4,674.46
20%	4,952.78
15%	5,294.04
10%	5,736.83
5%	6,456.08
0%	13,293.53

Forecast: NGL in Oil Fields

Summary:
Entire range is from 3.00 to 245.79
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.11



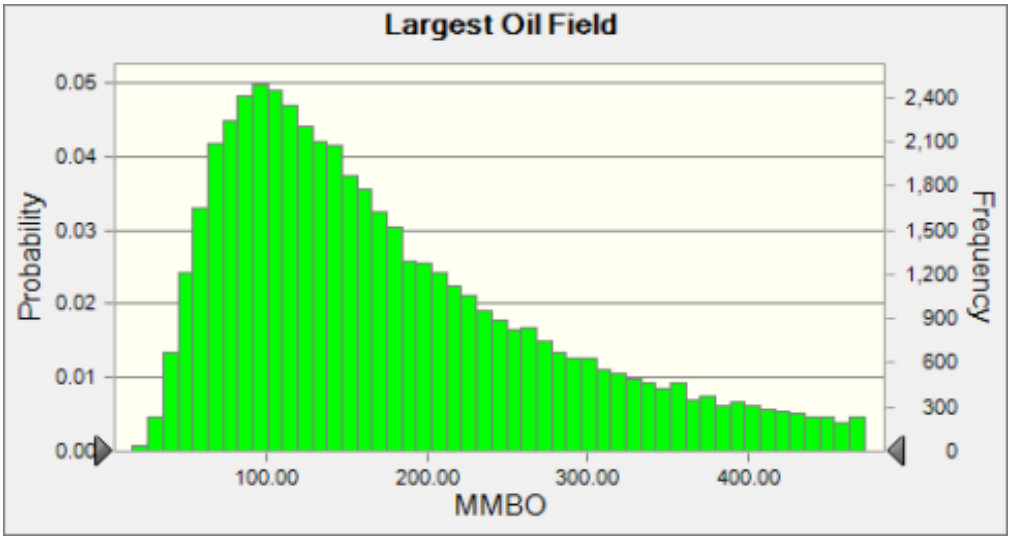
Statistics:	Forecast values
Trials	50,000
Mean	68.58
Median	64.68
Mode	---
Standard Deviation	25.23
Variance	636.77
Skewness	0.9876
Kurtosis	4.63
Coefficient of Variability	0.3679
Minimum	3.00
Maximum	245.79
Range Width	242.80
Mean Standard Error	0.11

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	3.00
95%	34.89
90%	40.17
85%	44.09
80%	47.42
75%	50.40
70%	53.34
65%	56.10
60%	58.85
55%	61.70
50%	64.68
45%	67.66
40%	70.96
35%	74.58
30%	78.32
25%	82.51
20%	87.48
15%	93.61
10%	101.91
5%	115.36
0%	245.79

Forecast: Largest Oil Field

Summary:
Entire range is from 16.74 to 499.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.47



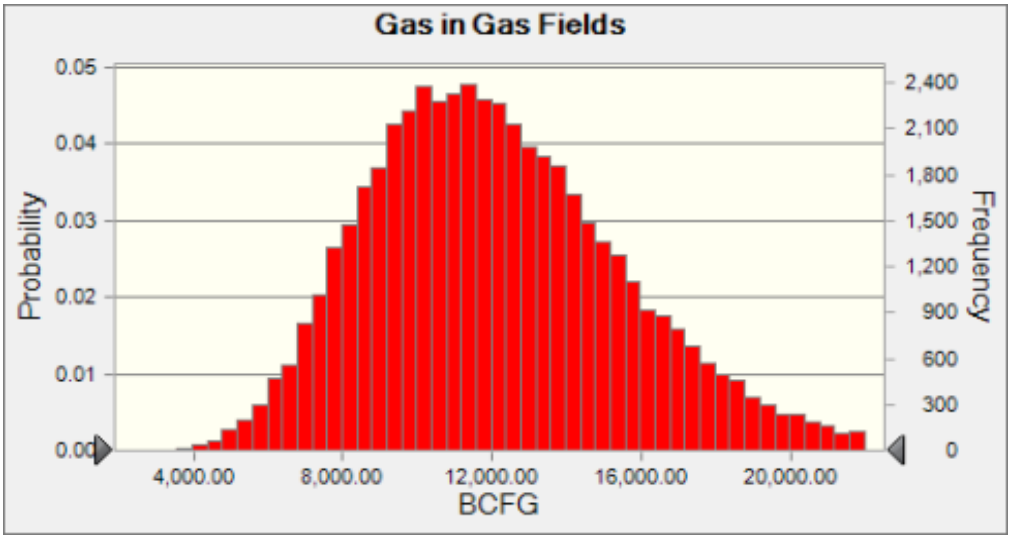
Statistics:	Forecast values
Trials	50,000
Mean	178.76
Median	150.90
Mode	---
Standard Deviation	104.82
Variance	10,988.09
Skewness	0.9957
Kurtosis	3.33
Coefficient of Variability	0.5864
Minimum	16.74
Maximum	499.98
Range Width	483.24
Mean Standard Error	0.47

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	16.74
95%	55.85
90%	68.71
85%	79.32
80%	89.02
75%	98.40
70%	107.78
65%	117.73
60%	128.10
55%	139.11
50%	150.89
45%	163.60
40%	177.98
35%	194.89
30%	213.87
25%	236.04
20%	262.59
15%	295.31
10%	338.49
5%	399.97
0%	499.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 522.47 to 32,243.13
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 15.67



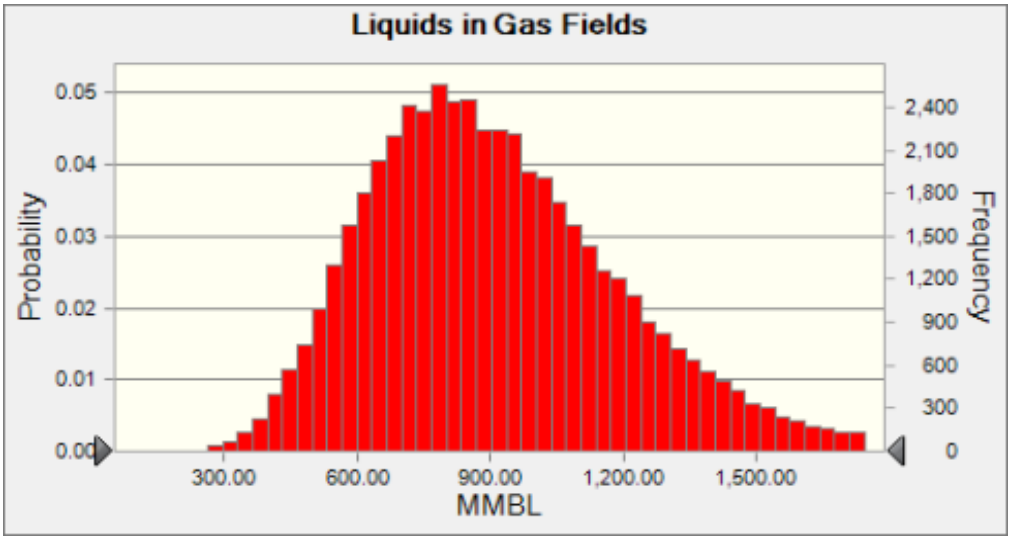
Statistics:	Forecast values
Trials	50,000
Mean	12,176.20
Median	11,800.02
Mode	---
Standard Deviation	3,503.75
Variance	12,276,293.45
Skewness	0.6109
Kurtosis	3.46
Coefficient of Variability	0.2878
Minimum	522.47
Maximum	32,243.13
Range Width	31,720.66
Mean Standard Error	15.67

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	522.47
95%	7,124.10
90%	7,987.91
85%	8,618.97
80%	9,177.66
75%	9,646.23
70%	10,084.26
65%	10,511.97
60%	10,950.81
55%	11,374.10
50%	11,800.01
45%	12,244.64
40%	12,697.40
35%	13,210.60
30%	13,735.54
25%	14,294.67
20%	14,983.20
15%	15,792.24
10%	16,875.51
5%	18,514.73
0%	32,243.13

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 93.87 to 2,956.40
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.32



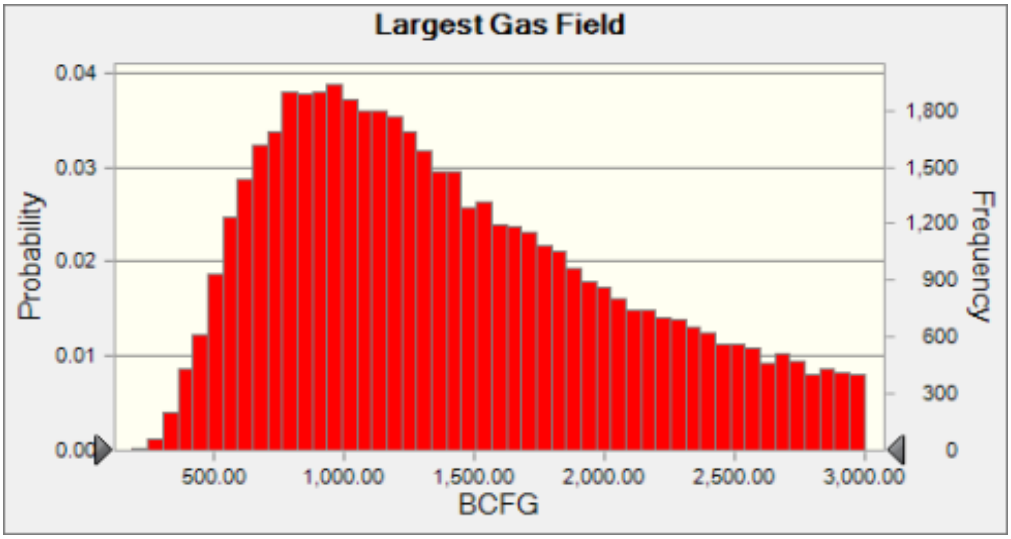
Statistics:	Forecast values
Trials	50,000
Mean	917.75
Median	878.50
Mode	---
Standard Deviation	294.82
Variance	86,919.60
Skewness	0.8052
Kurtosis	4.04
Coefficient of Variability	0.3212
Minimum	93.87
Maximum	2,956.40
Range Width	2,862.52
Mean Standard Error	1.32

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	93.87
95%	509.18
90%	576.41
85%	625.95
80%	667.59
75%	705.56
70%	740.36
65%	775.19
60%	808.52
55%	843.01
50%	878.50
45%	915.16
40%	953.38
35%	994.71
30%	1,038.83
25%	1,089.17
20%	1,147.29
15%	1,216.90
10%	1,311.58
5%	1,457.53
0%	2,956.40

Forecast: Largest Gas Field

Summary:
Entire range is from 188.91 to 2,999.84
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.90



Statistics:	Forecast values
Trials	50,000
Mean	1,410.81
Median	1,287.54
Mode	---
Standard Deviation	648.84
Variance	420,990.39
Skewness	0.5661
Kurtosis	2.44
Coefficient of Variability	0.4599
Minimum	188.91
Maximum	2,999.84
Range Width	2,810.93
Mean Standard Error	2.90

Forecast: Largest Gas Field (continued)

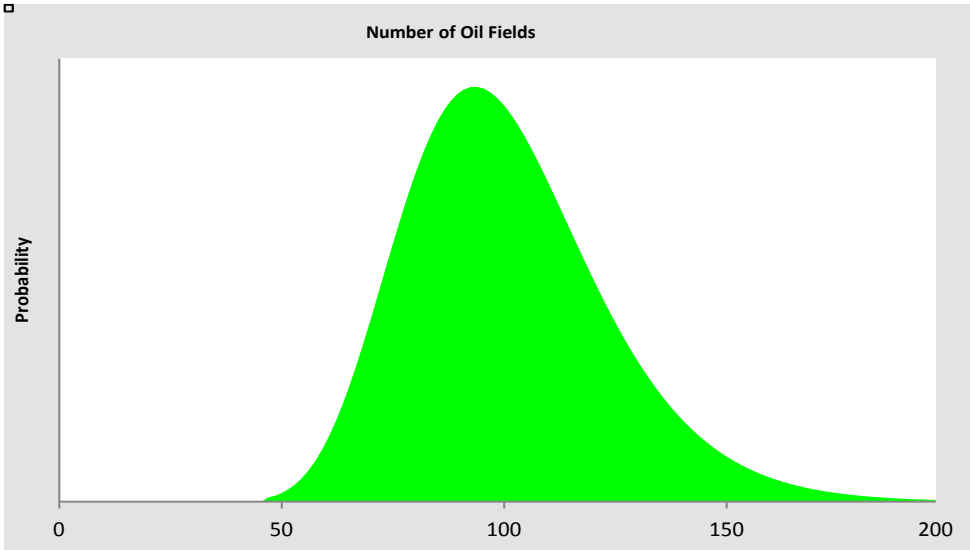
Percentiles:	BCFG
100%	188.91
95%	545.08
90%	650.61
85%	737.58
80%	816.44
75%	892.93
70%	966.83
65%	1,042.27
60%	1,122.97
55%	1,203.15
50%	1,287.51
45%	1,380.07
40%	1,482.06
35%	1,594.29
30%	1,716.23
25%	1,848.00
20%	2,003.03
15%	2,190.47
10%	2,403.23
5%	2,669.02
0%	2,999.84

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	101.56	102.56
Standard Deviation	23.24	23.24
Selected range is from -Infinity to 199.00		1.00 to 200.00



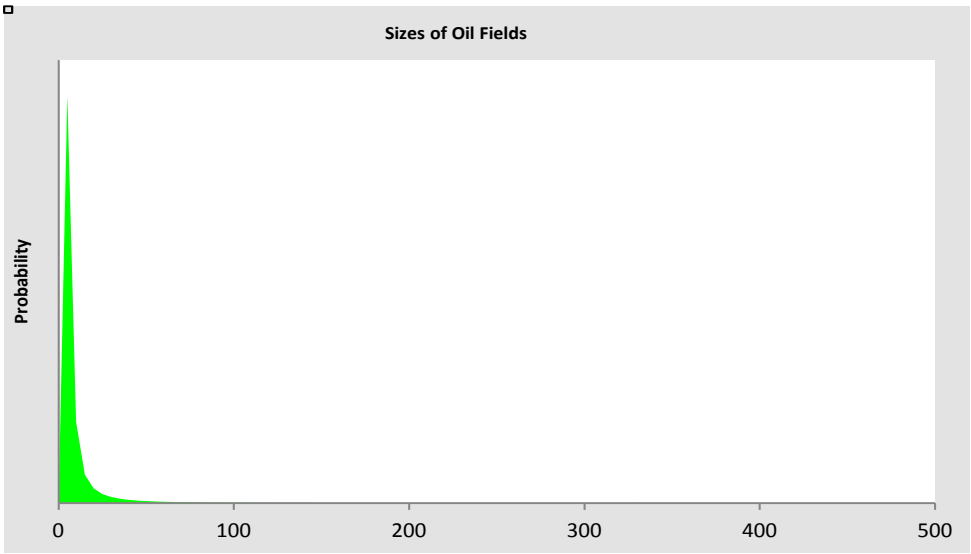
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	102.46	102.45
Median	100.02	99.97
Mode	---	---
Standard Deviation	22.82	22.99
Variance	520.77	528.38
Skewness	0.6066	0.6205
Kurtosis	3.46	3.48
Coefficient of Variability	0.2227	0.2244
Minimum	34.24	1.00
Maximum	199.61	200.00
Range Width	165.37	199.00
Mean Standard Error	0.10	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	34.24	1.00
95%	69.35	69.26
90%	75.39	75.10
85%	79.53	79.32
80%	83.03	82.84
75%	86.10	85.99
70%	88.98	88.92
65%	91.80	91.73
60%	94.60	94.47
55%	97.36	97.20
50%	100.02	99.97
45%	102.80	102.82
40%	105.86	105.80
35%	108.98	108.96
30%	112.34	112.40
25%	116.06	116.24
20%	120.54	120.66
15%	126.00	126.02
10%	132.83	133.10
5%	143.86	144.27
0%	199.61	200.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	9.86	10.86
Standard Deviation	47.60	47.6
Selected range is from -Infinity to 499.00		1.00 to 500.00



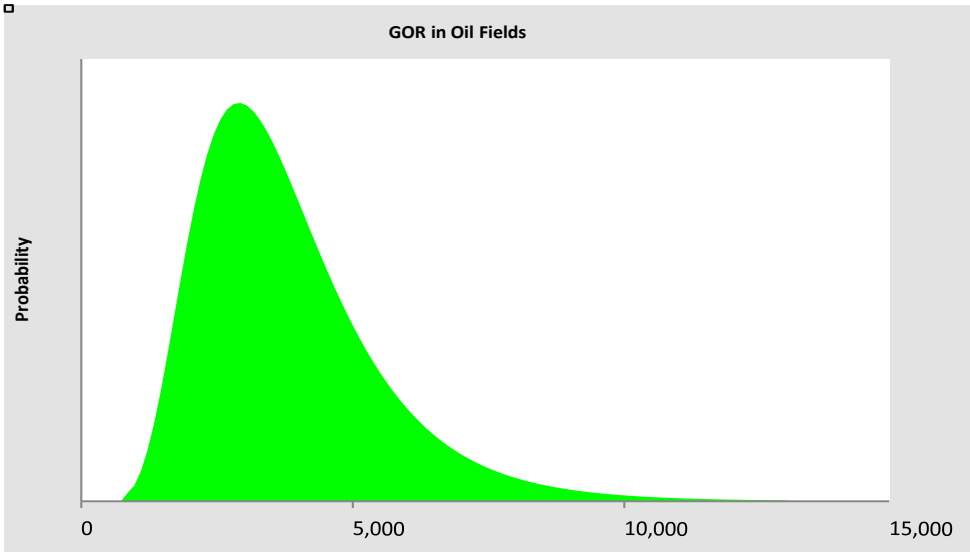
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	9.78	10.04
Median	2.99	3.00
Mode	---	---
Standard Deviation	25.11	25.75
Variance	630.48	662.86
Skewness	8.19	8.29
Kurtosis	96.75	98.71
Coefficient of Variability	2.57	2.56
Minimum	1.00	1.00
Maximum	496.14	500.00
Range Width	495.14	499.00
Mean Standard Error	0.11	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.11	1.11
90%	1.20	1.20
85%	1.32	1.31
80%	1.44	1.44
75%	1.59	1.60
70%	1.78	1.78
65%	2.00	2.00
60%	2.27	2.27
55%	2.59	2.59
50%	2.99	3.00
45%	3.50	3.50
40%	4.11	4.14
35%	4.95	4.97
30%	6.04	6.08
25%	7.60	7.64
20%	9.92	9.95
15%	13.54	13.65
10%	20.38	20.55
5%	37.56	38.15
0%	496.14	500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	3,829.26	3,830.26
Standard Deviation	1,702.56	1,702.56
Selected range is from -Infinity to 12,999.00		1.00 to 13,000.00



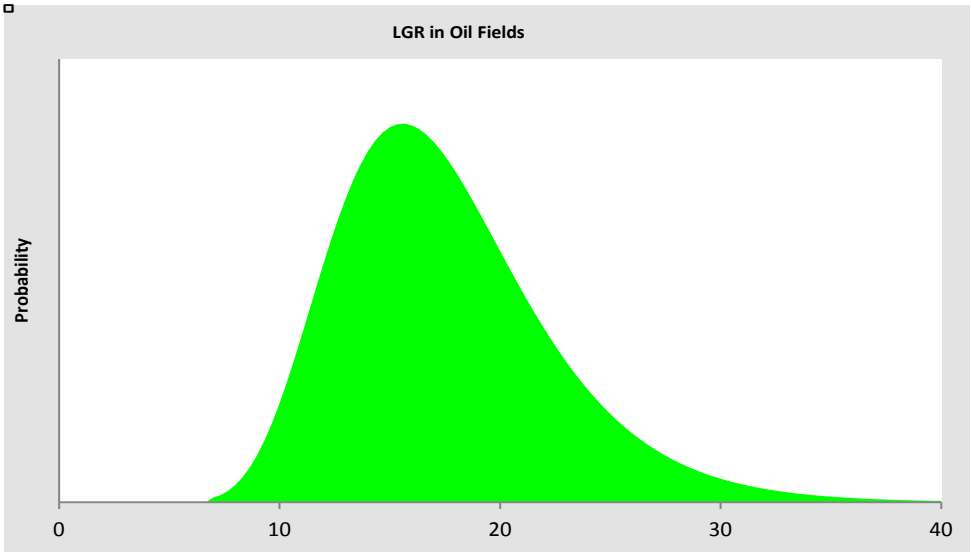
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,809.56	3,819.35
Median	3,489.72	3,498.14
Mode	---	---
Standard Deviation	1,666.69	1,667.23
Variance	2,777,850.74	2,779,671.00
Skewness	1.23	1.23
Kurtosis	5.16	5.22
Coefficient of Variability	0.4375	0.4365
Minimum	637.22	1.00
Maximum	12,945.43	13,000.00
Range Width	12,308.21	12,999.00
Mean Standard Error	7.45	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	637.22	1.00
95%	1,730.27	1,740.61
90%	2,026.83	2,030.79
85%	2,250.62	2,253.42
80%	2,441.22	2,447.64
75%	2,620.31	2,627.55
70%	2,789.10	2,800.34
65%	2,959.77	2,970.58
60%	3,133.87	3,141.67
55%	3,311.65	3,316.55
50%	3,489.71	3,498.14
45%	3,678.83	3,689.64
40%	3,875.03	3,894.93
35%	4,098.32	4,119.08
30%	4,349.57	4,369.18
25%	4,640.16	4,656.02
20%	4,980.94	4,997.41
15%	5,419.18	5,426.60
10%	6,024.75	6,018.12
5%	7,010.74	7,010.03
0%	12,945.43	13,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	16.68	17.68
Standard Deviation	4.91	4.91
Selected range is from -Infinity to 39.00		1.00 to 40.00



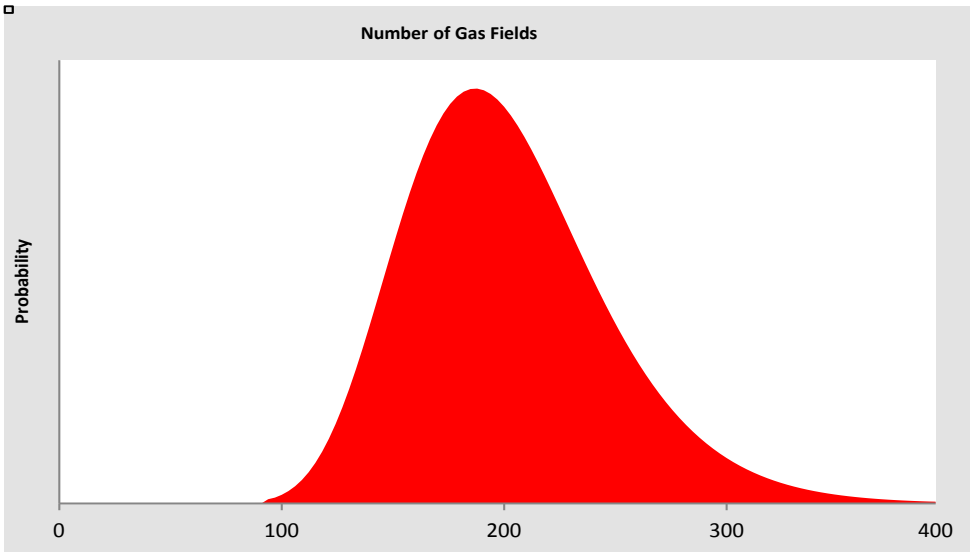
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.67	17.65
Median	16.99	16.99
Mode	---	---
Standard Deviation	4.84	4.84
Variance	23.46	23.47
Skewness	0.7886	0.8056
Kurtosis	3.79	3.88
Coefficient of Variability	0.2742	0.2744
Minimum	5.44	1.00
Maximum	39.89	40.00
Range Width	34.45	39.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.44	1.00
95%	10.97	10.96
90%	12.06	12.06
85%	12.85	12.86
80%	13.54	13.55
75%	14.16	14.17
70%	14.77	14.75
65%	15.31	15.31
60%	15.87	15.87
55%	16.43	16.43
50%	16.99	16.99
45%	17.59	17.58
40%	18.23	18.20
35%	18.90	18.87
30%	19.62	19.60
25%	20.43	20.42
20%	21.42	21.38
15%	22.59	22.55
10%	24.17	24.12
5%	26.67	26.64
0%	39.89	40.00

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



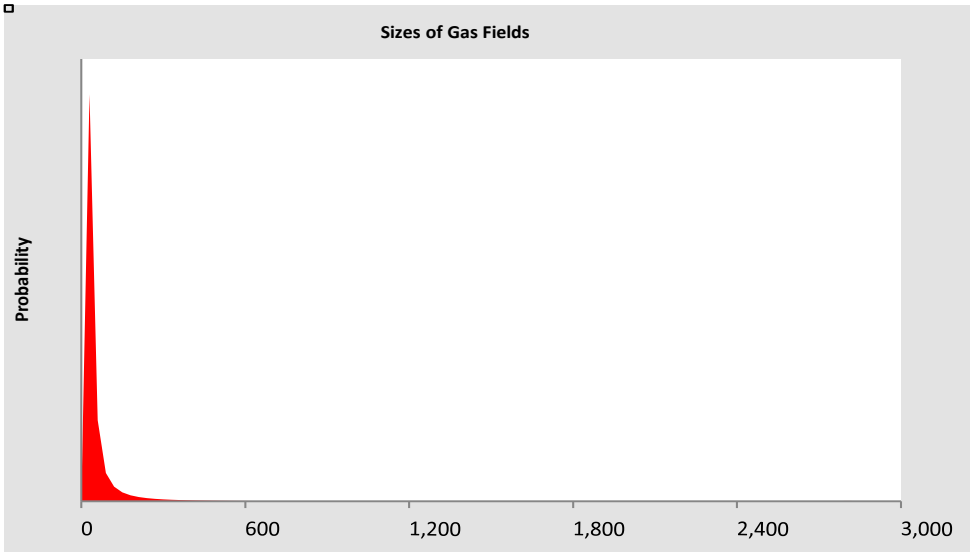
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	204.50	204.89
Median	199.70	199.94
Mode	---	---
Standard Deviation	45.89	46.03
Variance	2,105.71	2,118.44
Skewness	0.6090	0.6181
Kurtosis	3.49	3.48
Coefficient of Variability	0.2244	0.2246
Minimum	72.89	1.00
Maximum	399.85	400.00
Range Width	326.96	399.00
Mean Standard Error	0.21	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	72.89	1.00
95%	137.93	138.40
90%	149.69	150.11
85%	158.16	158.56
80%	165.55	165.62
75%	171.75	171.93
70%	177.70	177.81
65%	183.18	183.43
60%	188.75	188.92
55%	194.16	194.40
50%	199.70	199.94
45%	205.21	205.65
40%	211.24	211.61
35%	217.56	217.95
30%	224.53	224.84
25%	232.21	232.51
20%	240.78	241.36
15%	251.43	252.09
10%	265.72	266.25
5%	287.34	288.60
0%	399.85	400.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	59.16	65.16
Standard Deviation	285.58	285.58
Selected range is from -Infinity to 2,994.00		6.00 to 3,000.00



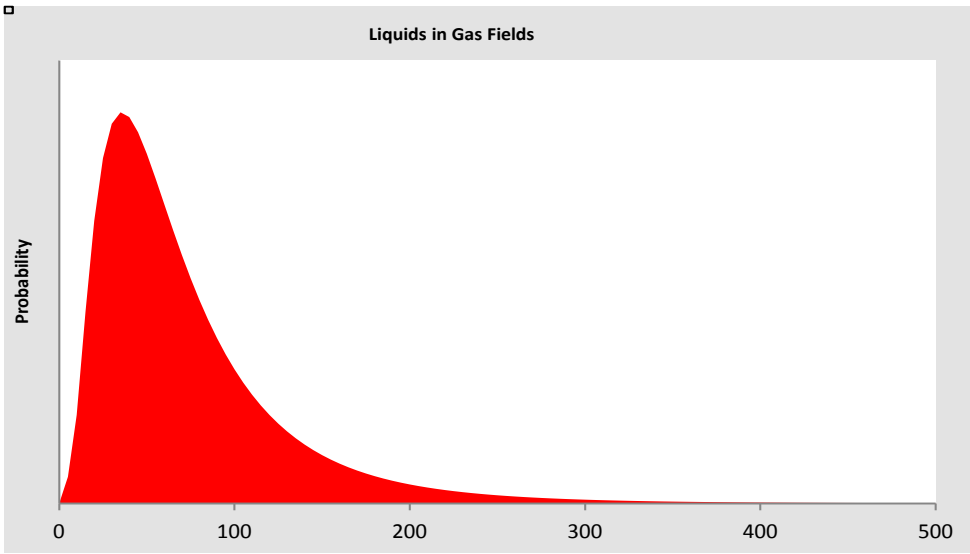
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	59.88	60.25
Median	17.97	17.97
Mode	---	---
Standard Deviation	154.13	154.48
Variance	23,756.07	23,862.89
Skewness	7.92	8.29
Kurtosis	88.95	98.71
Coefficient of Variability	2.57	2.56
Minimum	6.01	6.00
Maximum	2,956.68	3,000.00
Range Width	2,950.67	2,994.00
Mean Standard Error	0.69	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.01	6.00
95%	6.65	6.64
90%	7.23	7.21
85%	7.87	7.88
80%	8.63	8.67
75%	9.53	9.59
70%	10.66	10.70
65%	11.97	12.02
60%	13.57	13.62
55%	15.51	15.57
50%	17.97	17.97
45%	21.02	20.98
40%	24.83	24.82
35%	30.03	29.81
30%	36.73	36.51
25%	46.33	45.86
20%	60.25	59.69
15%	82.64	81.92
10%	124.17	123.32
5%	232.44	228.88
0%	2,956.68	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	74.91	75.91
Standard Deviation	58.60	58.6
Selected range is from -Infinity to 499.00		1.00 to 500.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	75.45	75.37
Median	60.17	59.95
Mode	---	---
Standard Deviation	55.94	55.92
Variance	3,129.06	3,127.03
Skewness	2.20	2.18
Kurtosis	10.39	10.17
Coefficient of Variability	0.7414	0.7420
Minimum	4.76	1.00
Maximum	497.46	500.00
Range Width	492.70	499.00
Mean Standard Error	0.25	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.76	1.00
95%	20.03	19.93
90%	25.30	25.33
85%	29.82	29.82
80%	34.00	33.97
75%	37.99	38.00
70%	42.11	42.04
65%	46.39	46.18
60%	50.74	50.49
55%	55.35	55.05
50%	60.17	59.95
45%	65.51	65.29
40%	71.63	71.21
35%	78.21	77.90
30%	85.70	85.65
25%	94.70	94.87
20%	106.26	106.33
15%	121.07	121.44
10%	143.48	143.52
5%	184.07	183.68
0%	497.46	500.00

End of Assumptions

Simulation started on 1/31/2012 at 4:44 PM
Simulation stopped on 1/31/2012 at 4:55 PM