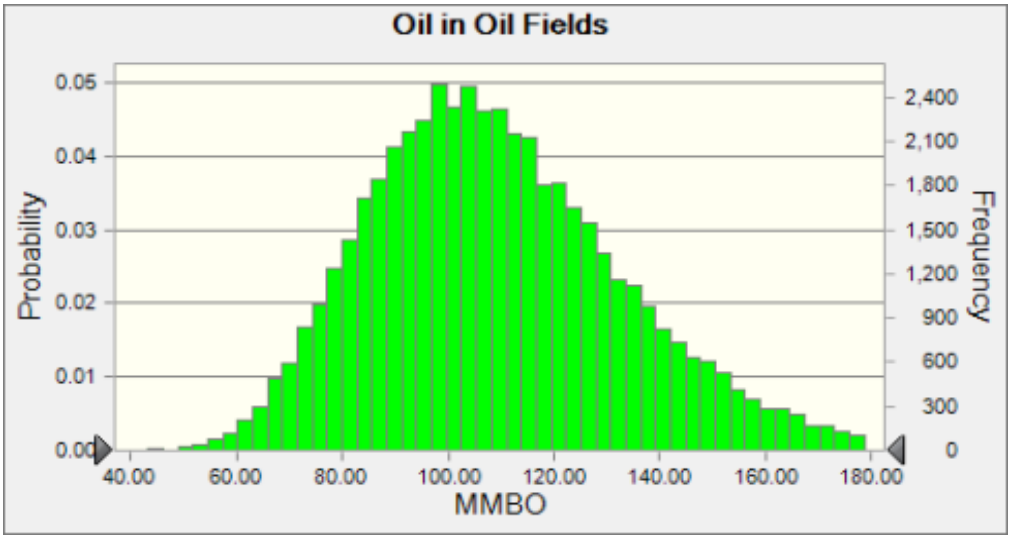
52430201
Triassic through Lower Cretaceous Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 222.27 to 1,117.80
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.57



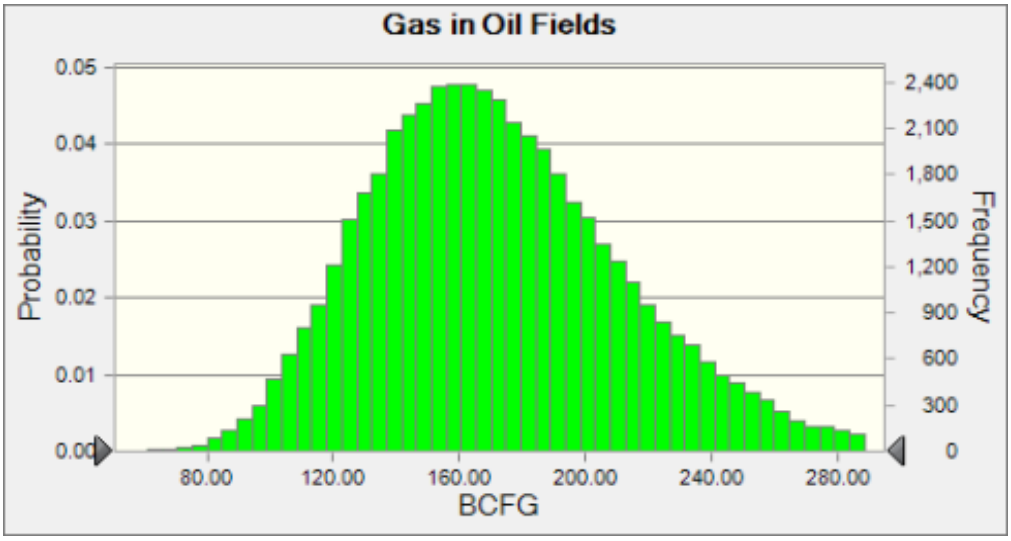
Statistics:	Forecast values
Trials	50,000
Mean	571.19
Median	557.35
Mode	---
Standard Deviation	128.46
Variance	16,501.47
Skewness	0.6162
Kurtosis	3.47
Coefficient of Variability	0.2249
Minimum	222.27
Maximum	1,117.80
Range Width	895.54
Mean Standard Error	0.57

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	222.27
95%	385.52
90%	418.29
85%	441.86
80%	461.56
75%	479.34
70%	495.65
65%	511.28
60%	526.67
55%	541.93
50%	557.35
45%	573.25
40%	590.00
35%	607.67
30%	627.01
25%	648.30
20%	672.99
15%	703.06
10%	742.55
5%	804.78
0%	1,117.80

Forecast: Gas in Oil Fields

Summary:
Entire range is from 460.48 to 2,435.27
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.22



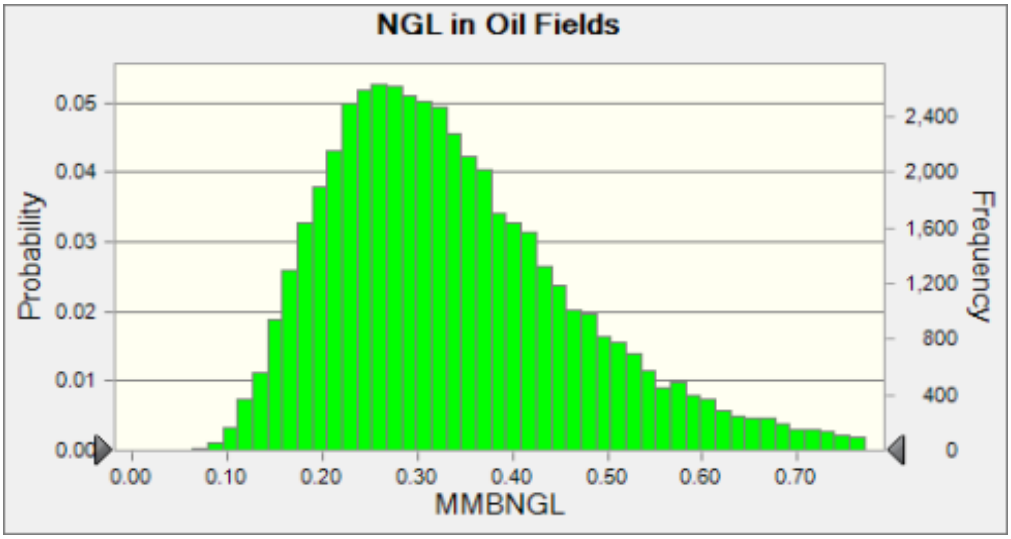
Statistics:	Forecast values
Trials	50,000
Mean	1,203.89
Median	1,174.61
Mode	---
Standard Deviation	272.75
Variance	74,392.84
Skewness	0.6136
Kurtosis	3.47
Coefficient of Variability	0.2266
Minimum	460.48
Maximum	2,435.27
Range Width	1,974.78
Mean Standard Error	1.22

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	460.48
95%	809.77
90%	879.25
85%	929.41
80%	971.37
75%	1,008.90
70%	1,043.88
65%	1,077.79
60%	1,109.25
55%	1,141.13
50%	1,174.61
45%	1,209.85
40%	1,243.79
35%	1,280.83
30%	1,321.82
25%	1,368.12
20%	1,419.89
15%	1,483.92
10%	1,568.48
5%	1,698.36
0%	2,435.27

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.58 to 4.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



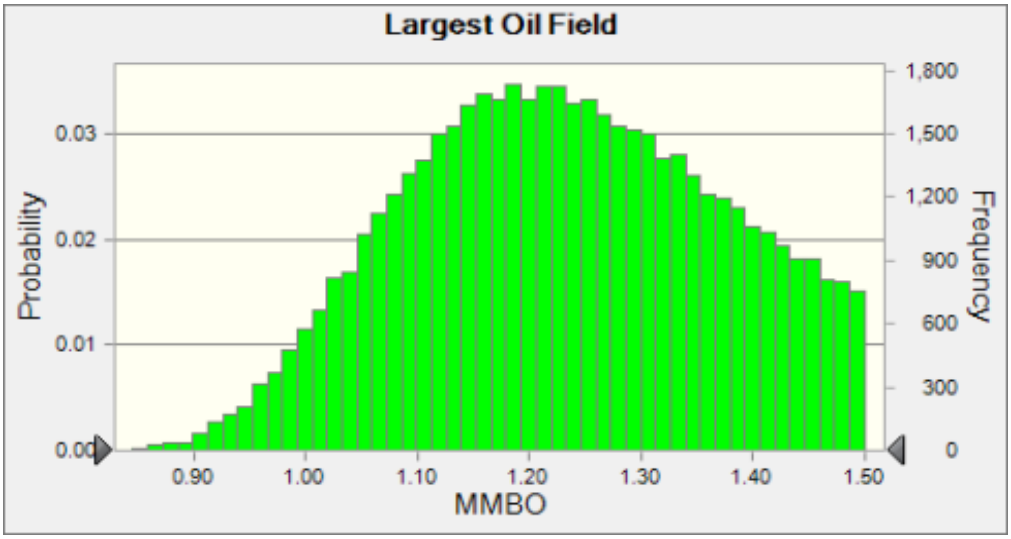
Statistics:	Forecast values
Trials	50,000
Mean	1.84
Median	1.79
Mode	---
Standard Deviation	0.46
Variance	0.21
Skewness	0.61
Kurtosis	3.51
Coefficient of Variability	0.2493
Minimum	0.58
Maximum	4.49
Range Width	3.90
Mean Standard Error	0.00

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.58
95%	1.17
90%	1.29
85%	1.38
80%	1.45
75%	1.51
70%	1.57
65%	1.63
60%	1.68
55%	1.74
50%	1.79
45%	1.85
40%	1.91
35%	1.97
30%	2.04
25%	2.12
20%	2.21
15%	2.31
10%	2.45
5%	2.67
0%	4.49

Forecast: Largest Oil Field

Summary:
Entire range is from 0.53 to 0.60
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



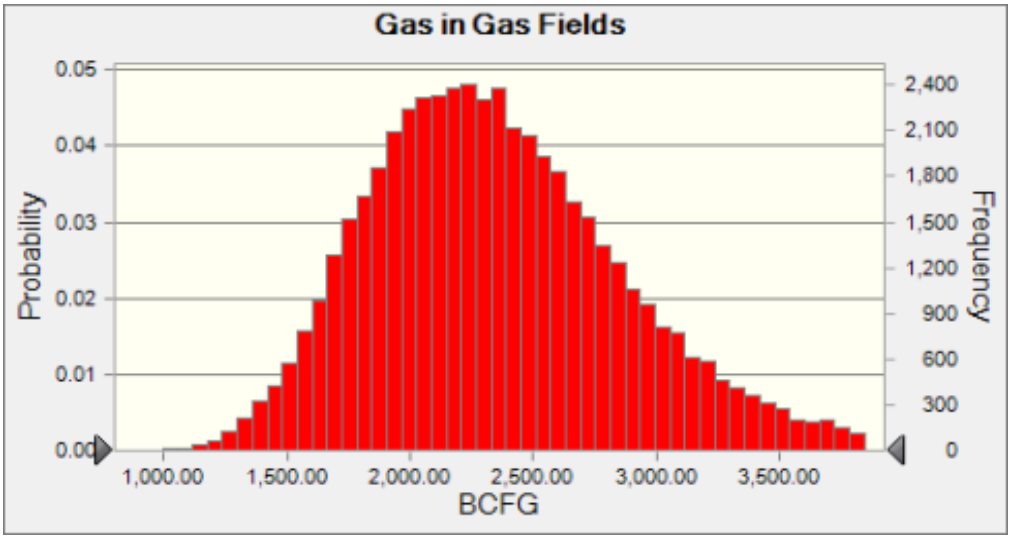
Statistics:	Forecast values
Trials	50,000
Mean	0.59
Median	0.59
Mode	---
Standard Deviation	0.01
Variance	0.00
Skewness	-0.9488
Kurtosis	3.59
Coefficient of Variability	0.0179
Minimum	0.53
Maximum	0.60
Range Width	0.07
Mean Standard Error	0.00

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	0.53
95%	0.57
90%	0.57
85%	0.57
80%	0.58
75%	0.58
70%	0.58
65%	0.58
60%	0.59
55%	0.59
50%	0.59
45%	0.59
40%	0.59
35%	0.59
30%	0.59
25%	0.59
20%	0.60
15%	0.60
10%	0.60
5%	0.60
0%	0.60

Forecast: Gas in Gas Fields

Summary:
Entire range is from 5,041.20 to 28,463.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.61



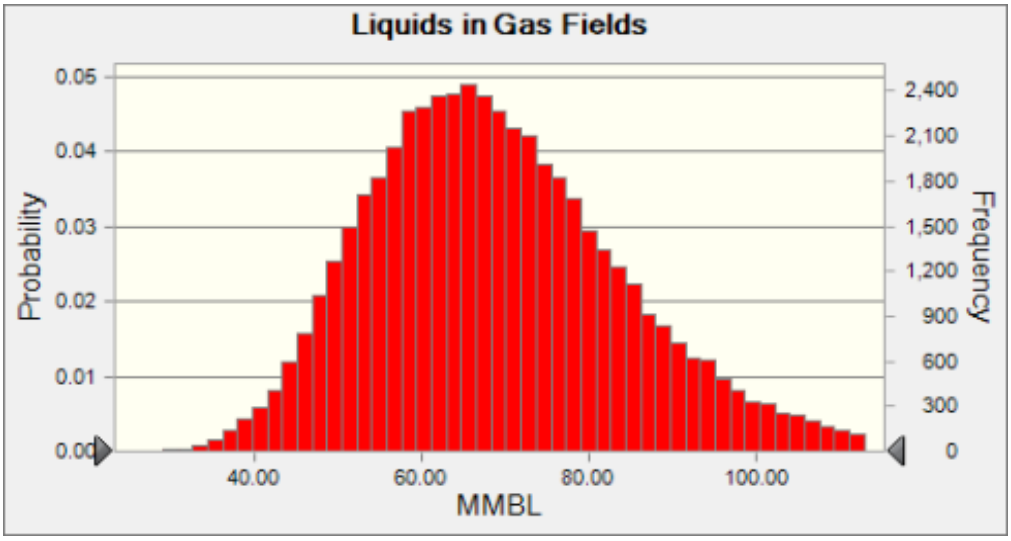
Statistics:	Forecast values
Trials	50,000
Mean	14,524.42
Median	14,172.59
Mode	---
Standard Deviation	3,267.61
Variance	10,677,296.22
Skewness	0.6151
Kurtosis	3.47
Coefficient of Variability	0.2250
Minimum	5,041.20
Maximum	28,463.03
Range Width	23,421.84
Mean Standard Error	14.61

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	5,041.20
95%	9,799.40
90%	10,631.35
85%	11,233.18
80%	11,734.28
75%	12,190.36
70%	12,602.93
65%	13,004.21
60%	13,395.53
55%	13,782.71
50%	14,172.59
45%	14,581.57
40%	15,002.87
35%	15,452.91
30%	15,938.11
25%	16,481.05
20%	17,110.13
15%	17,880.46
10%	18,887.75
5%	20,459.44
0%	28,463.03

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 140.49 to 780.17
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.40



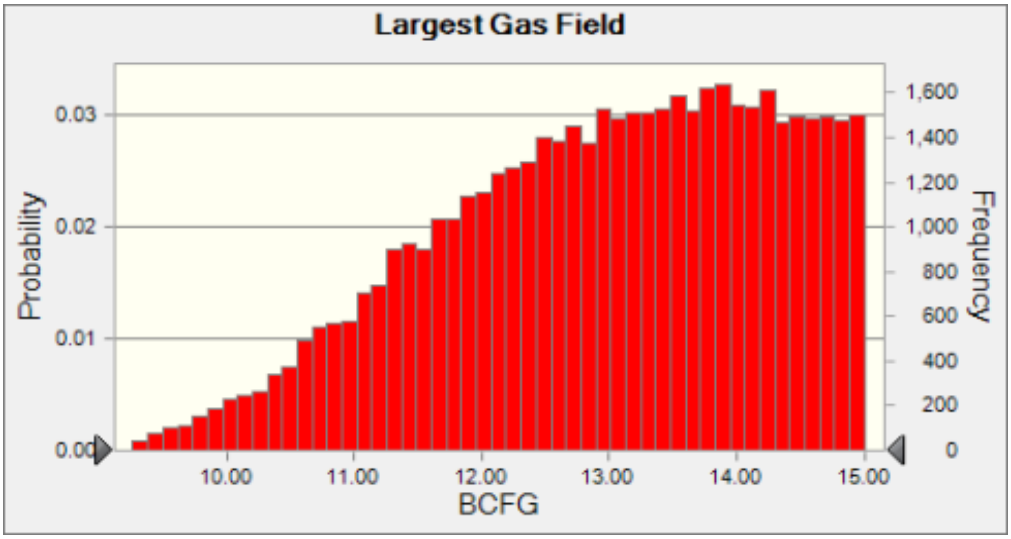
Statistics:	Forecast values
Trials	50,000
Mean	397.72
Median	388.02
Mode	---
Standard Deviation	89.56
Variance	8,020.25
Skewness	0.6157
Kurtosis	3.47
Coefficient of Variability	0.2252
Minimum	140.49
Maximum	780.17
Range Width	639.68
Mean Standard Error	0.40

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	140.49
95%	268.26
90%	291.24
85%	307.47
80%	321.38
75%	333.60
70%	345.12
65%	356.06
60%	366.58
55%	377.33
50%	388.02
45%	399.16
40%	410.81
35%	423.32
30%	436.54
25%	451.44
20%	468.68
15%	489.55
10%	517.11
5%	560.35
0%	780.17

Forecast: Largest Gas Field

Summary:
Entire range is from 11.31 to 15.00
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	14.43
Median	14.57
Mode	---
Standard Deviation	0.49
Variance	0.24
Skewness	-1.3628
Kurtosis	5.09
Coefficient of Variability	0.0341
Minimum	11.31
Maximum	15.00
Range Width	3.69
Mean Standard Error	0.00

Forecast: Largest Gas Field (continued)

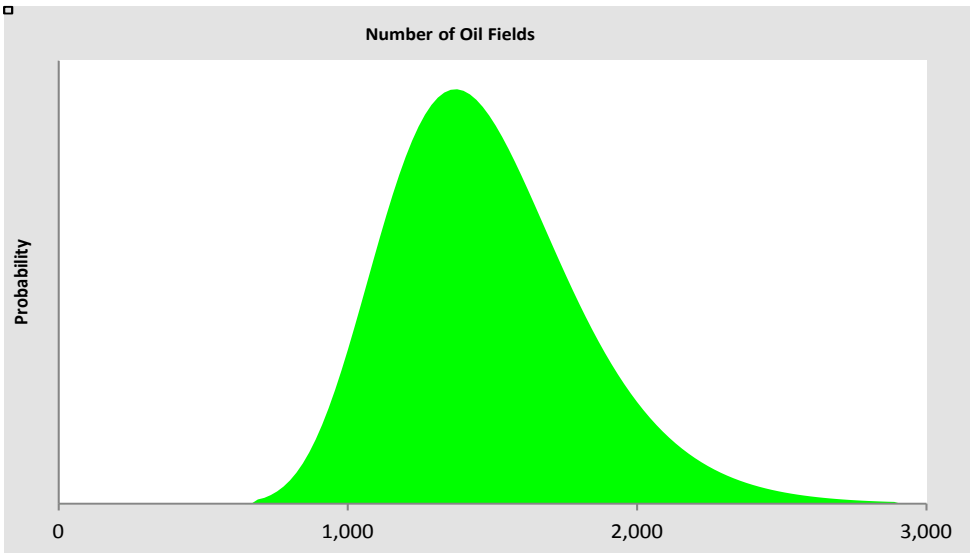
Percentiles:	BCFG
100%	11.31
95%	13.45
90%	13.75
85%	13.93
80%	14.08
75%	14.19
70%	14.28
65%	14.37
60%	14.44
55%	14.51
50%	14.57
45%	14.63
40%	14.68
35%	14.72
30%	14.77
25%	14.81
20%	14.85
15%	14.89
10%	14.93
5%	14.97
0%	15.00

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1.00
Mean	1,409.05	1,410.05
Standard Deviation	320.27	320.27
Selected range is from -Infinity to 2,749.00		1.00 to 2,750.00



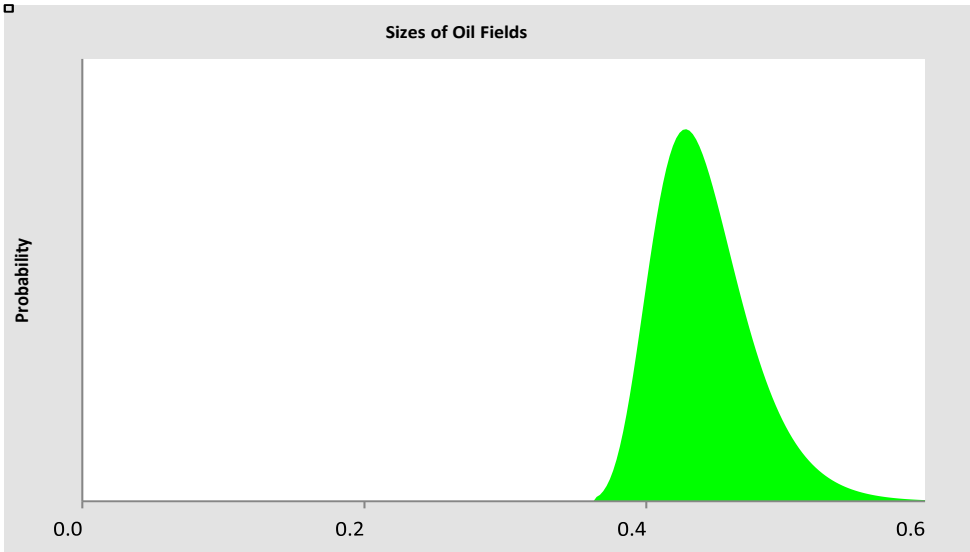
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,408.52	1,408.52
Median	1,374.61	1,374.61
Mode	---	---
Standard Deviation	316.73	316.75
Variance	100,321.06	100,329.59
Skewness	0.6163	0.6161
Kurtosis	3.47	3.47
Coefficient of Variability	0.2249	0.2249
Minimum	547.10	1.00
Maximum	2,748.35	2,750.00
Range Width	2,201.24	2,749.00
Mean Standard Error	1.42	1.42

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	547.10	1.00
95%	950.74	950.76
90%	1,031.42	1,031.42
85%	1,089.67	1,089.68
80%	1,138.30	1,138.32
75%	1,181.77	1,181.77
70%	1,222.20	1,222.20
65%	1,260.89	1,260.90
60%	1,298.74	1,298.75
55%	1,336.45	1,336.45
50%	1,374.61	1,374.61
45%	1,413.86	1,413.86
40%	1,454.88	1,454.88
35%	1,498.52	1,498.52
30%	1,545.90	1,545.92
25%	1,598.70	1,598.72
20%	1,659.59	1,659.60
15%	1,733.40	1,733.43
10%	1,830.77	1,830.80
5%	1,984.42	1,984.45
0%	2,748.35	2,750.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.25
Mean	0.16	0.41
Standard Deviation	0.04	0.04
Selected range is from -Infinity to 0.35		0.25 to 0.60



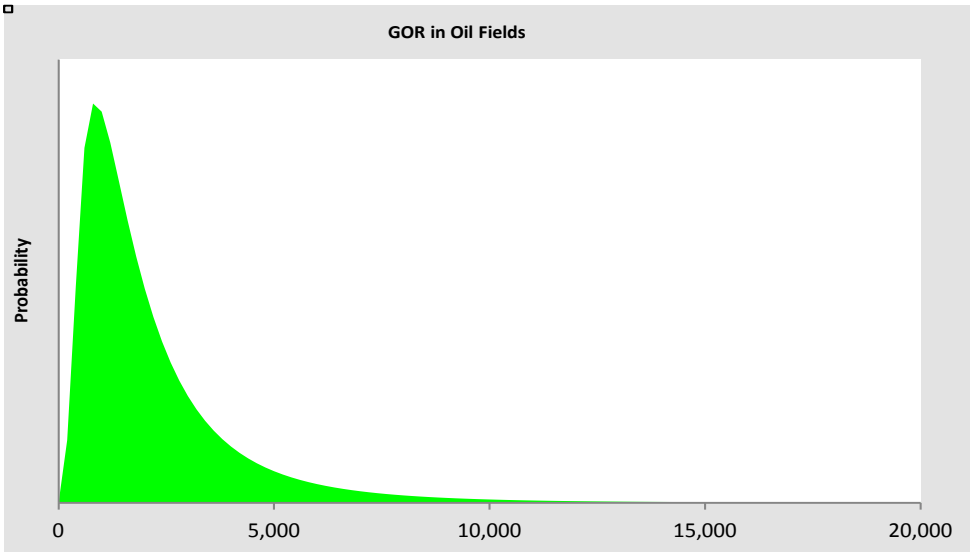
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	0.41	0.41
Median	0.40	0.40
Mode	---	---
Standard Deviation	0.04	0.04
Variance	0.00	0.00
Skewness	0.76	0.76
Kurtosis	3.78	3.78
Coefficient of Variability	0.1059	0.1059
Minimum	0.30	0.25
Maximum	0.60	0.60
Range Width	0.30	0.35
Mean Standard Error	0.00	0.00

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.30	0.25
95%	0.35	0.35
90%	0.36	0.36
85%	0.36	0.36
80%	0.37	0.37
75%	0.37	0.37
70%	0.38	0.38
65%	0.38	0.38
60%	0.39	0.39
55%	0.39	0.39
50%	0.40	0.40
45%	0.41	0.41
40%	0.41	0.41
35%	0.42	0.42
30%	0.42	0.42
25%	0.43	0.43
20%	0.44	0.44
15%	0.45	0.45
10%	0.46	0.46
5%	0.48	0.48
0%	0.60	0.60

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1.00
Mean	2,130.42	2,131.42
Standard Deviation	2,151.49	2,151.49
Selected range is from -Infinity to 19,999.00		1.00 to 20,000.00



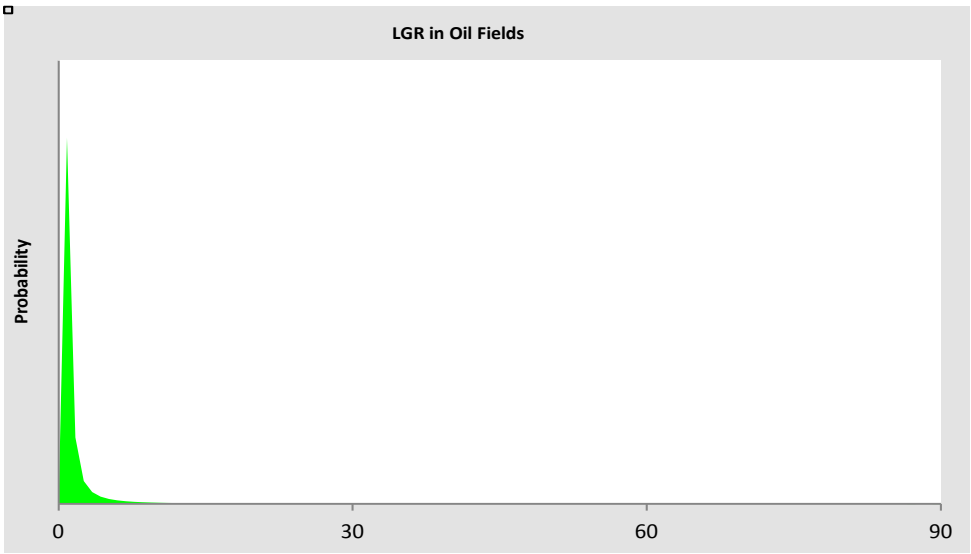
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,107.59	2,107.58
Median	1,498.36	1,498.42
Mode	---	---
Standard Deviation	2,003.97	2,004.03
Variance	4,015,892.58	4,016,118.85
Skewness	2.79	2.79
Kurtosis	14.78	14.78
Coefficient of Variability	0.95	0.95
Minimum	39.93	1.00
Maximum	19,928.11	20,000.00
Range Width	19,888.18	19,999.00
Mean Standard Error	8.96	8.96

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	39.93	1.00
95%	378.22	378.28
90%	512.58	512.59
85%	629.24	629.28
80%	740.71	740.72
75%	851.93	851.95
70%	965.99	966.00
65%	1,085.28	1,085.29
60%	1,212.06	1,212.07
55%	1,348.81	1,348.81
50%	1,498.36	1,498.42
45%	1,664.60	1,664.62
40%	1,852.33	1,852.36
35%	2,068.62	2,068.64
30%	2,323.82	2,323.88
25%	2,634.57	2,634.63
20%	3,029.39	3,029.54
15%	3,564.38	3,564.59
10%	4,371.97	4,372.28
5%	5,908.04	5,908.92
0%	19,928.11	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.10
Mean	1.59	1.69
Standard Deviation	8.30	8.30
Selected range is from -Infinity to 84.90		0.10 to 85.00



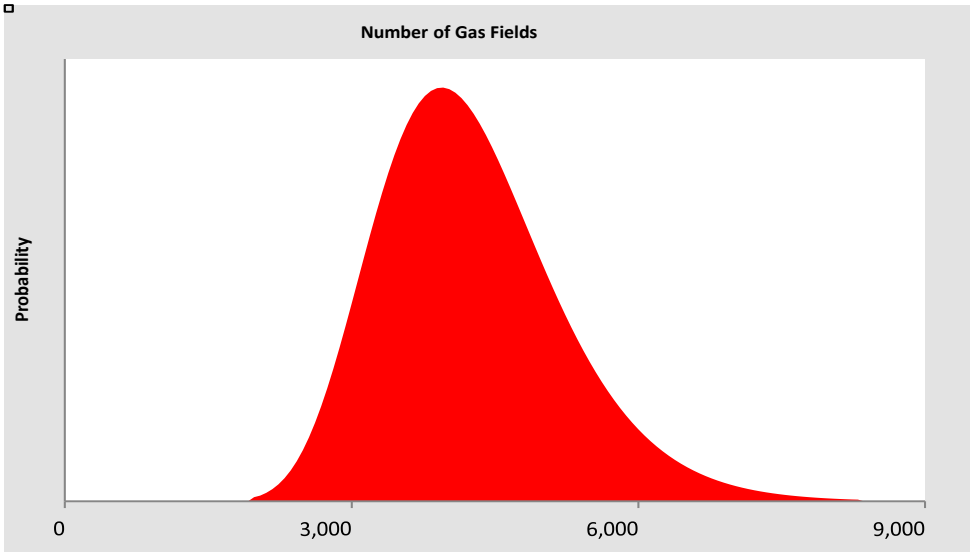
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1.53	1.53
Median	0.40	0.40
Mode	---	---
Standard Deviation	4.29	4.29
Variance	18.41	18.42
Skewness	8.55	8.55
Kurtosis	104.34	104.42
Coefficient of Variability	2.81	2.81
Minimum	0.10	0.10
Maximum	84.74	85.00
Range Width	84.64	84.90
Mean Standard Error	0.02	0.02

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.10	0.10
95%	0.11	0.11
90%	0.13	0.13
85%	0.15	0.15
80%	0.16	0.16
75%	0.19	0.19
70%	0.21	0.21
65%	0.25	0.25
60%	0.29	0.29
55%	0.34	0.34
50%	0.40	0.40
45%	0.48	0.48
40%	0.58	0.58
35%	0.70	0.70
30%	0.88	0.88
25%	1.12	1.12
20%	1.49	1.49
15%	2.08	2.08
10%	3.19	3.19
5%	6.05	6.06
0%	84.74	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1.00
Mean	4,254.75	4,255.75
Standard Deviation	966.73	966.73
Selected range is from -Infinity to 8,299.00		1.00 to 8,300.00



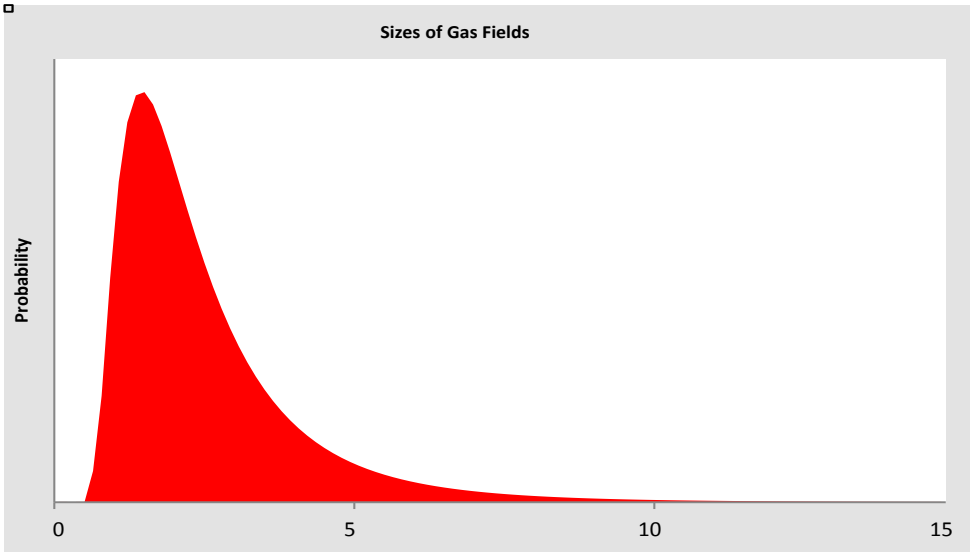
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4,251.15	4,251.15
Median	4,148.81	4,148.83
Mode	---	---
Standard Deviation	956.08	956.11
Variance	914,087.75	914,148.40
Skewness	0.6159	0.6159
Kurtosis	3.47	3.47
Coefficient of Variability	0.2249	0.2249
Minimum	1,461.58	1.00
Maximum	8,293.70	8,300.00
Range Width	6,832.12	8,299.00
Mean Standard Error	4.28	4.28

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1,461.58	1.00
95%	2,869.24	2,869.31
90%	3,112.76	3,112.83
85%	3,288.66	3,288.71
80%	3,435.54	3,435.54
75%	3,566.71	3,566.71
70%	3,688.73	3,688.76
65%	3,805.54	3,805.58
60%	3,919.80	3,919.83
55%	4,033.60	4,033.63
50%	4,148.81	4,148.83
45%	4,267.27	4,267.31
40%	4,391.09	4,391.13
35%	4,522.85	4,522.86
30%	4,665.91	4,665.91
25%	4,825.24	4,825.30
20%	5,009.04	5,009.07
15%	5,231.81	5,231.90
10%	5,525.77	5,525.80
5%	5,989.35	5,989.56
0%	8,293.70	8,300.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1.50
Mean	1.93	3.43
Standard Deviation	1.57	1.57
Selected range is from -Infinity to 13.50		1.50 to 15.00



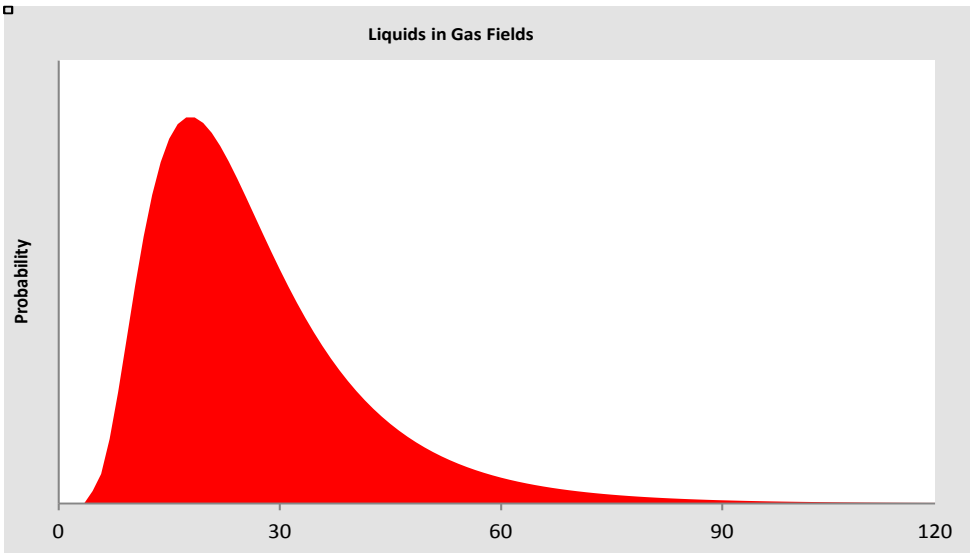
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3.42	3.42
Median	3.00	3.00
Mode	---	---
Standard Deviation	1.49	1.49
Variance	2.22	2.22
Skewness	2.26	2.26
Kurtosis	10.71	10.71
Coefficient of Variability	0.4364	0.4364
Minimum	1.54	1.50
Maximum	14.98	15.00
Range Width	13.44	13.50
Mean Standard Error	0.01	0.01

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.54	1.50
95%	1.97	1.97
90%	2.10	2.10
85%	2.22	2.22
80%	2.32	2.32
75%	2.43	2.43
70%	2.53	2.53
65%	2.64	2.64
60%	2.75	2.75
55%	2.87	2.87
50%	3.00	3.00
45%	3.14	3.14
40%	3.29	3.29
35%	3.47	3.47
30%	3.67	3.67
25%	3.92	3.92
20%	4.22	4.22
15%	4.63	4.63
10%	5.22	5.22
5%	6.30	6.30
0%	14.98	15.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1.00
Mean	26.50	27.50
Std. Dev.	15.15	15.15
Selected range is from -Infinity to 119.00		1.00 to 120.00



Statistics:	Assumption values	Distribution
Trials	50,000	---
Mean	27.38	27.38
Median	23.98	23.98
Mode	---	---
Standard Deviation	14.72	14.72
Variance	216.55	216.56
Skewness	1.59	1.59
Kurtosis	6.78	6.78
Coeff. of Variability	0.5374	0.5374
Minimum	2.72	1.00
Maximum	119.77	120.00
Range Width	117.05	119.00
Mean Std. Error	0.07	0.07

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Assumption values	Distribution
P100	2.72	1.00
P95	10.59	10.59
P90	12.63	12.63
P85	14.25	14.25
P80	15.69	15.69
P75	17.06	17.06
P70	18.39	18.39
P65	19.73	19.73
P60	21.09	21.09
P55	22.50	22.50
P50	23.98	23.98
P45	25.57	25.57
P40	27.30	27.30
P35	29.20	29.21
P30	31.37	31.37
P25	33.88	33.88
P20	36.93	36.93
P15	40.84	40.84
P10	46.35	46.35
P5	55.90	55.90
P0	119.77	120.00

End of Assumptions

Simulation started on 2/13/2012 at 4:25 PM
Simulation stopped on 2/13/2012 at 7:28 PM