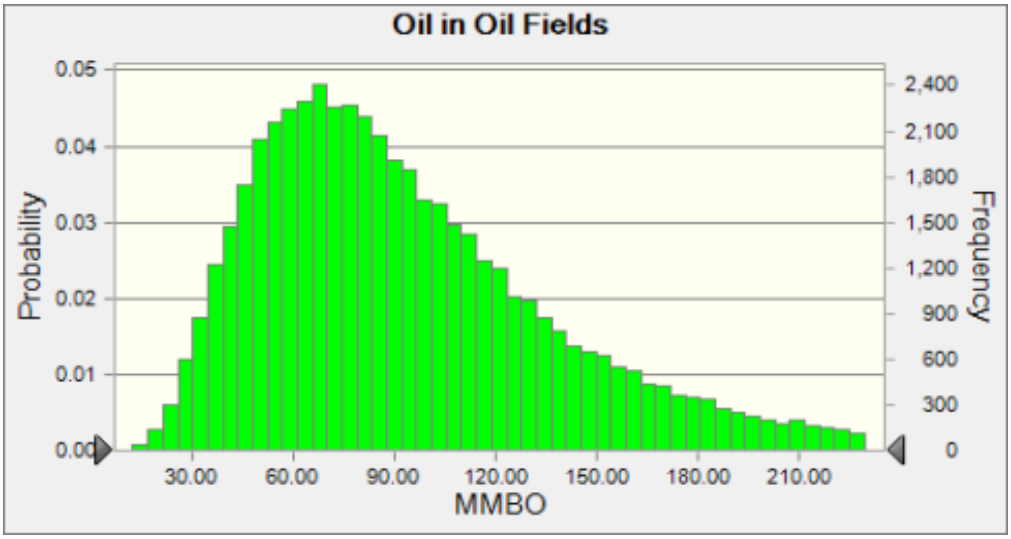
53020101
Cretaceous-Cenozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 12.51 to 473.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.21



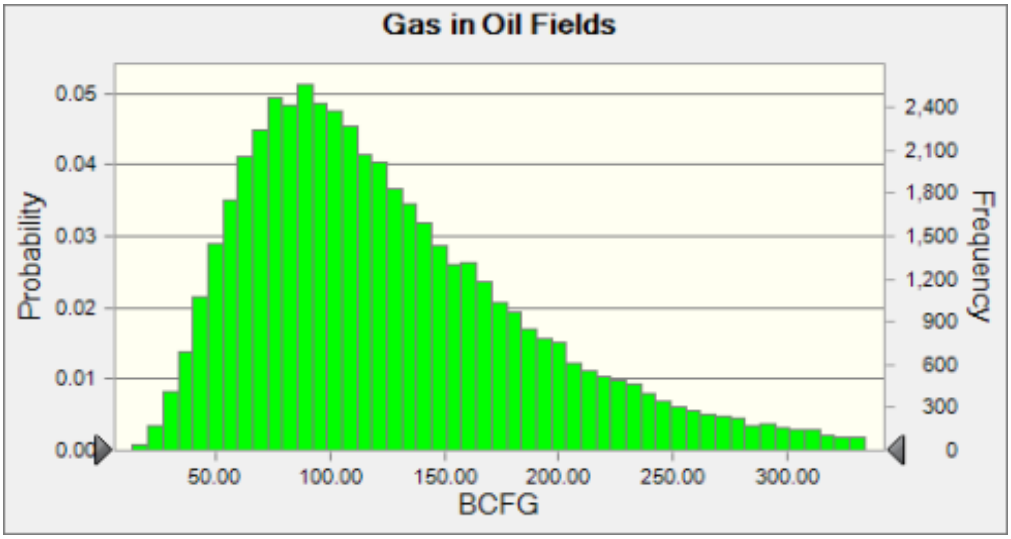
Statistics:	Forecast values
Trials	50,000
Mean	95.07
Median	84.78
Mode	---
Standard Deviation	47.91
Variance	2,295.82
Skewness	1.27
Kurtosis	5.30
Coefficient of Variability	0.5040
Minimum	12.51
Maximum	473.91
Range Width	461.40
Mean Standard Error	0.21

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	12.51
95%	36.76
90%	44.41
85%	50.35
80%	55.58
75%	60.54
70%	65.37
65%	69.94
60%	74.78
55%	79.73
50%	84.78
45%	90.39
40%	96.40
35%	103.08
30%	110.40
25%	118.74
20%	128.97
15%	141.79
10%	159.75
5%	188.77
0%	473.91

Forecast: Gas in Oil Fields

Summary:
Entire range is from 13.59 to 893.87
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.33



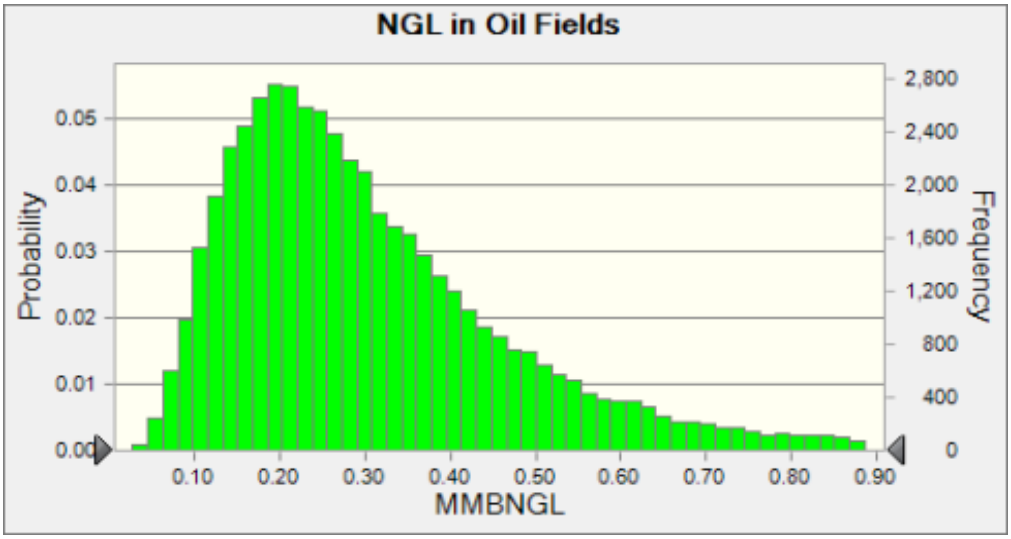
Statistics:	Forecast values
Trials	50,000
Mean	130.18
Median	113.54
Mode	---
Standard Deviation	72.78
Variance	5,297.37
Skewness	1.70
Kurtosis	8.12
Coefficient of Variability	0.5591
Minimum	13.59
Maximum	893.87
Range Width	880.28
Mean Standard Error	0.33

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	13.59
95%	46.99
90%	57.30
85%	65.45
80%	72.79
75%	79.35
70%	86.14
65%	92.46
60%	99.19
55%	106.17
50%	113.53
45%	121.56
40%	130.29
35%	139.67
30%	150.59
25%	163.07
20%	177.77
15%	196.60
10%	223.22
5%	269.50
0%	893.87

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.03 to 6.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



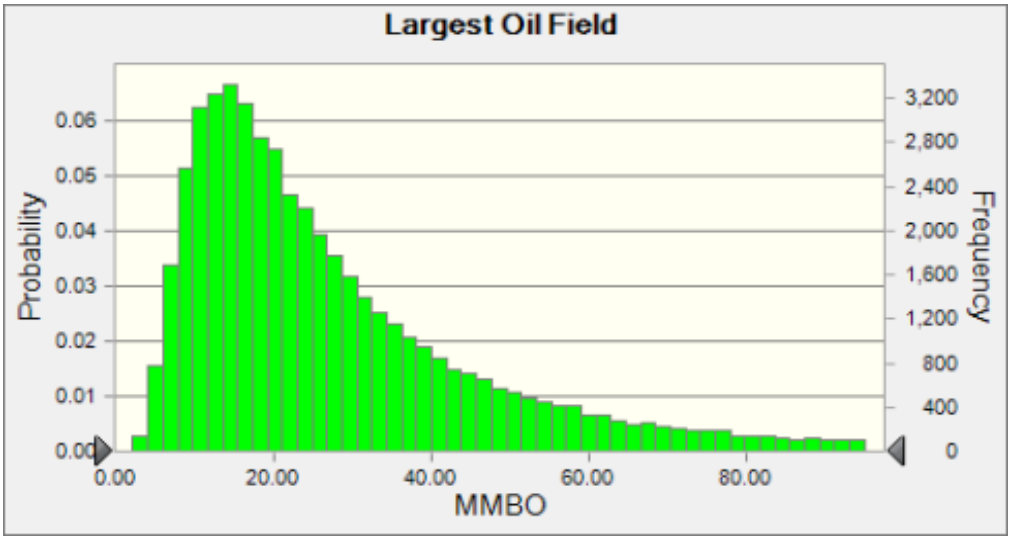
Statistics:	Forecast values
Trials	50,000
Mean	0.32
Median	0.27
Mode	---
Standard Deviation	0.20
Variance	0.04
Skewness	3.16
Kurtosis	35.60
Coefficient of Variability	0.6451
Minimum	0.03
Maximum	6.49
Range Width	6.46
Mean Standard Error	0.00

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.03
95%	0.11
90%	0.13
85%	0.15
80%	0.17
75%	0.18
70%	0.20
65%	0.22
60%	0.23
55%	0.25
50%	0.27
45%	0.29
40%	0.31
35%	0.33
30%	0.36
25%	0.39
20%	0.43
15%	0.48
10%	0.55
5%	0.68
0%	6.49

Forecast: Largest Oil Field

Summary:
Entire range is from 2.06 to 149.97
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.10



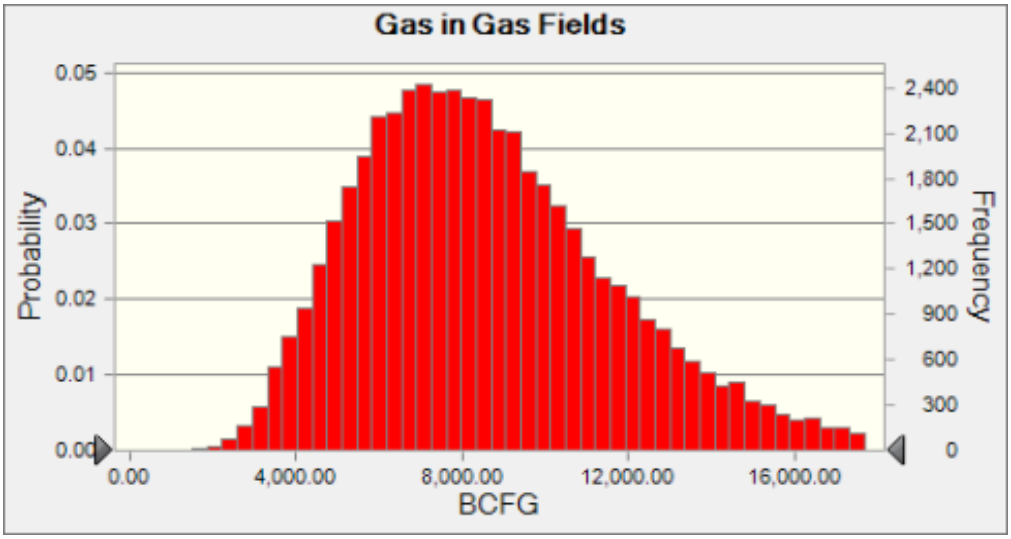
Statistics:	Forecast values
Trials	50,000
Mean	29.50
Median	22.20
Mode	---
Standard Deviation	23.40
Variance	547.69
Skewness	2.03
Kurtosis	7.90
Coefficient of Variability	0.7932
Minimum	2.06
Maximum	149.97
Range Width	147.91
Mean Standard Error	0.10

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	2.06
95%	7.66
90%	9.53
85%	11.06
80%	12.54
75%	13.99
70%	15.44
65%	16.95
60%	18.57
55%	20.26
50%	22.20
45%	24.29
40%	26.67
35%	29.39
30%	32.67
25%	36.69
20%	41.71
15%	48.68
10%	58.81
5%	78.18
0%	149.97

Forecast: Gas in Gas Fields

Summary:
Entire range is from 77.74 to 28,626.60
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.35



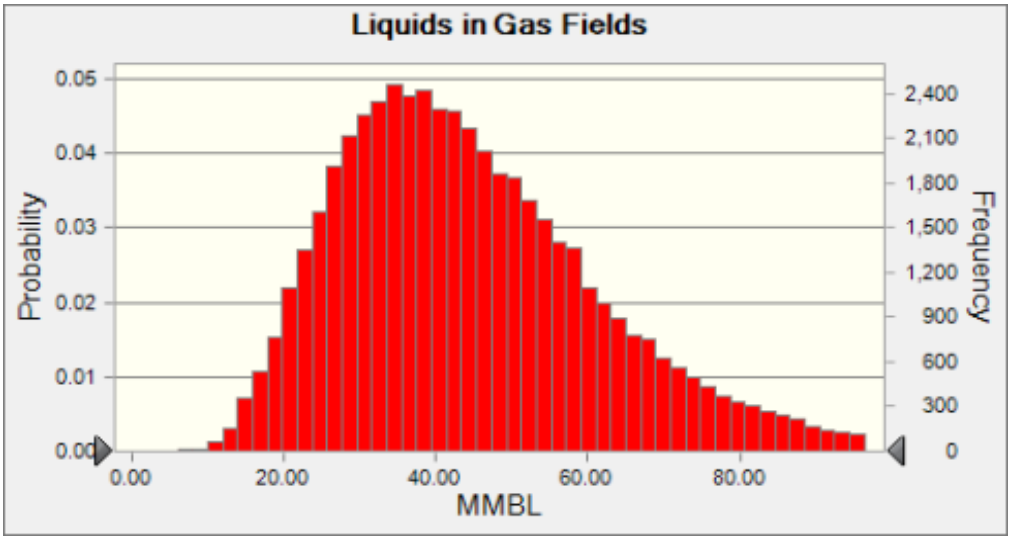
Statistics:	Forecast values
Trials	50,000
Mean	8,682.92
Median	8,239.13
Mode	---
Standard Deviation	3,207.91
Variance	10,290,716.36
Skewness	0.8192
Kurtosis	3.91
Coefficient of Variability	0.3695
Minimum	77.74
Maximum	28,626.60
Range Width	28,548.86
Mean Standard Error	14.35

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	77.74
95%	4,273.94
90%	4,974.33
85%	5,497.14
80%	5,943.00
75%	6,342.41
70%	6,732.55
65%	7,105.63
60%	7,480.31
55%	7,860.74
50%	8,239.12
45%	8,629.59
40%	9,045.36
35%	9,478.58
30%	9,965.18
25%	10,520.00
20%	11,176.39
15%	11,977.36
10%	12,989.05
5%	14,642.06
0%	28,626.60

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.20 to 185.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



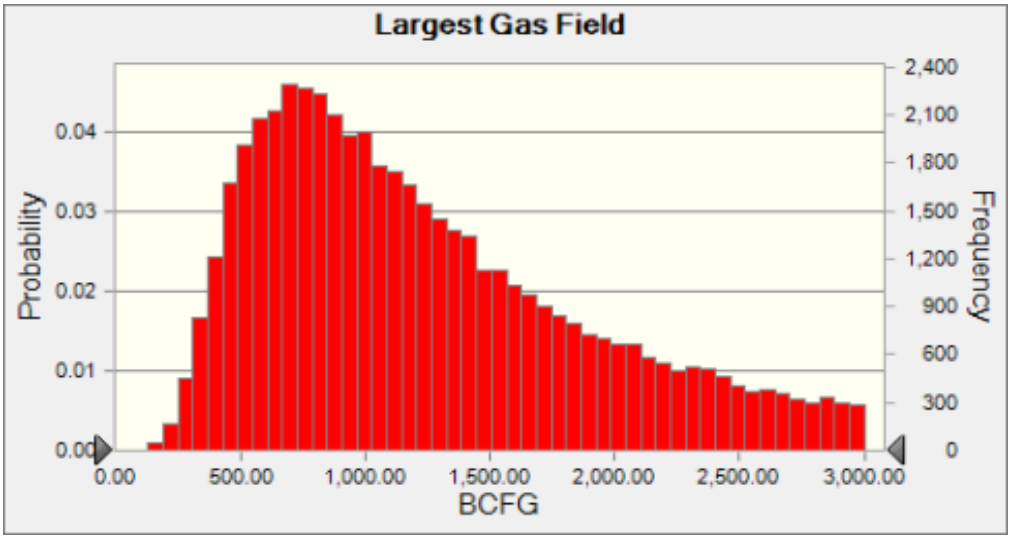
Statistics:	Forecast values
Trials	50,000
Mean	45.03
Median	42.09
Mode	---
Standard Deviation	18.32
Variance	335.49
Skewness	1.04
Kurtosis	4.80
Coefficient of Variability	0.4068
Minimum	0.20
Maximum	185.96
Range Width	185.77
Mean Standard Error	0.08

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.20
95%	20.95
90%	24.51
85%	27.30
80%	29.63
75%	31.79
70%	33.87
65%	35.87
60%	37.87
55%	39.96
50%	42.09
45%	44.28
40%	46.66
35%	49.21
30%	51.94
25%	54.99
20%	58.51
15%	63.09
10%	69.28
5%	79.33
0%	185.96

Forecast: Largest Gas Field

Summary:
Entire range is from 66.75 to 2,999.89
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	1,226.11
Median	1,078.79
Mode	---
Standard Deviation	648.31
Variance	420,305.51
Skewness	0.7772
Kurtosis	2.82
Coefficient of Variability	0.5288
Minimum	66.75
Maximum	2,999.89
Range Width	2,933.14
Mean Standard Error	2.90

Forecast: Largest Gas Field (continued)

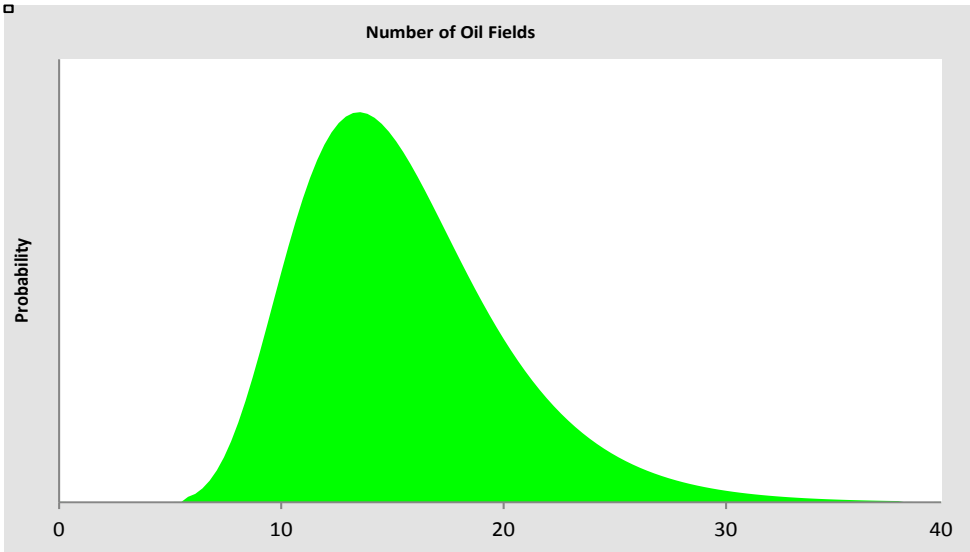
Percentiles:	BCFG
100%	66.75
95%	417.14
90%	505.69
85%	581.47
80%	651.27
75%	717.37
70%	783.27
65%	850.42
60%	921.49
55%	997.93
50%	1,078.78
45%	1,165.41
40%	1,259.94
35%	1,364.12
30%	1,481.82
25%	1,619.25
20%	1,782.00
15%	1,980.95
10%	2,225.19
5%	2,544.64
0%	2,999.89

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	14.71	15.71
Standard Deviation	4.74	4.74
Selected range is from -Infinity to 37.00		1.00 to 38.00



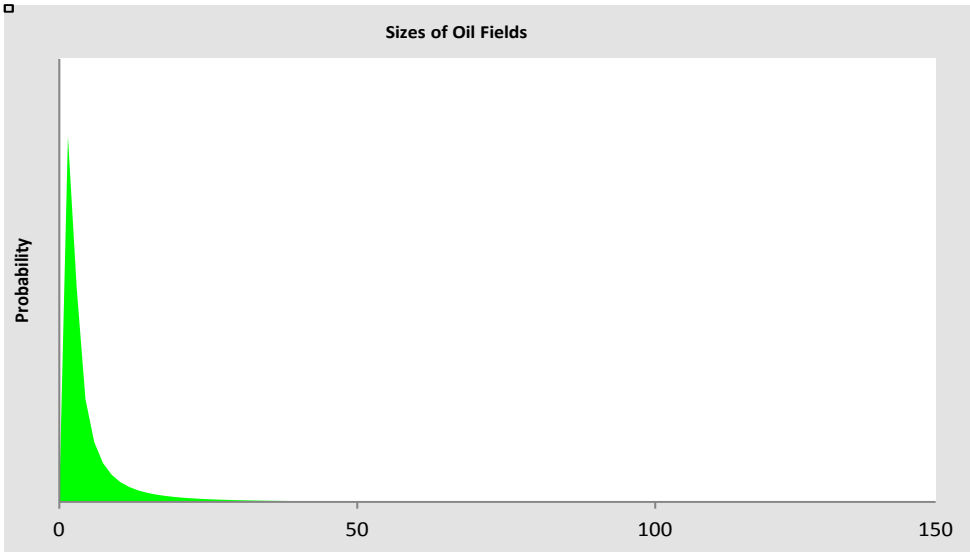
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.71	15.68
Median	15.03	14.99
Mode	---	---
Standard Deviation	4.66	4.67
Variance	21.74	21.84
Skewness	0.8718	0.8847
Kurtosis	4.06	4.09
Coefficient of Variability	0.2968	0.2980
Minimum	4.75	1.00
Maximum	37.92	38.00
Range Width	33.17	37.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.75	1.00
95%	9.37	9.34
90%	10.37	10.35
85%	11.13	11.10
80%	11.77	11.74
75%	12.36	12.32
70%	12.91	12.87
65%	13.43	13.40
60%	13.95	13.92
55%	14.48	14.45
50%	15.03	14.99
45%	15.59	15.56
40%	16.20	16.15
35%	16.83	16.80
30%	17.55	17.50
25%	18.35	18.30
20%	19.27	19.23
15%	20.45	20.37
10%	21.92	21.92
5%	24.39	24.42
0%	37.92	38.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	5.29	6.29
Standard Deviation	12.97	12.97
Selected range is from -Infinity to 149.00		1.00 to 150.00



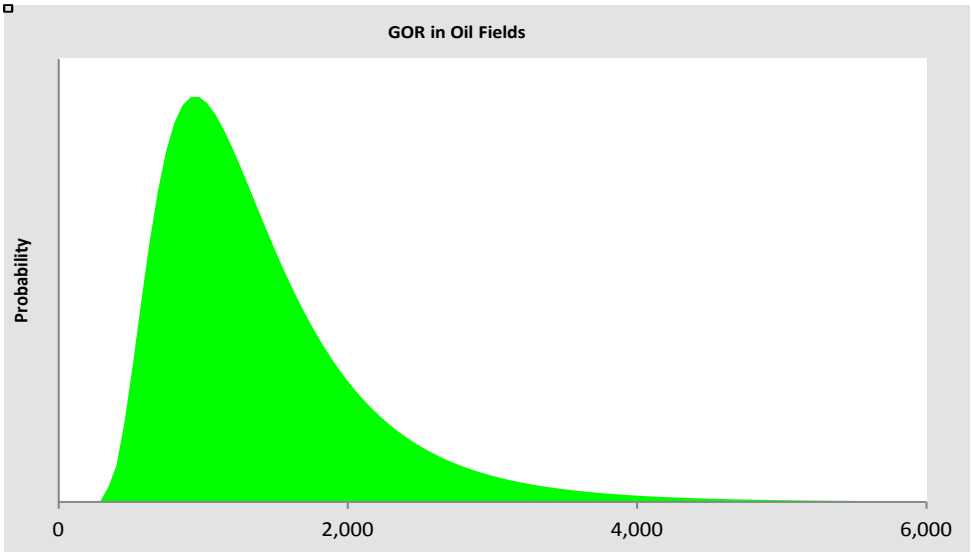
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.07	6.06
Median	3.00	3.00
Mode	---	---
Standard Deviation	9.73	9.78
Variance	94.76	95.70
Skewness	5.71	5.75
Kurtosis	50.89	50.89
Coefficient of Variability	1.60	1.61
Minimum	1.01	1.00
Maximum	149.51	150.00
Range Width	148.51	149.00
Mean Standard Error	0.04	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.01	1.00
95%	1.20	1.20
90%	1.33	1.33
85%	1.47	1.47
80%	1.62	1.62
75%	1.79	1.78
70%	1.97	1.96
65%	2.17	2.17
60%	2.41	2.40
55%	2.69	2.68
50%	3.00	3.00
45%	3.38	3.38
40%	3.83	3.84
35%	4.40	4.42
30%	5.15	5.15
25%	6.14	6.11
20%	7.51	7.44
15%	9.54	9.45
10%	13.03	12.87
5%	20.72	20.59
0%	149.51	150.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	150
Mean	1,225.43	1,375.43
Standard Deviation	737.35	737.35
Selected range is from -Infinity to 5,850.00		150.00 to 6,000.00



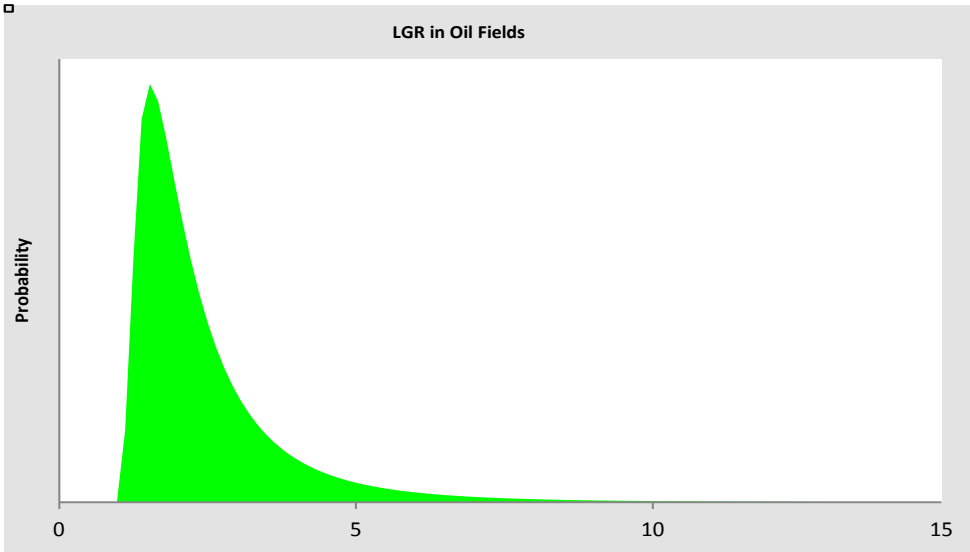
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,374.97	1,369.74
Median	1,201.36	1,199.27
Mode	---	---
Standard Deviation	718.54	714.60
Variance	516,295.28	510,646.67
Skewness	1.68	1.67
Kurtosis	7.21	7.20
Coefficient of Variability	0.5226	0.5217
Minimum	239.16	150.00
Maximum	5,997.72	6,000.00
Range Width	5,758.56	5,850.00
Mean Standard Error	3.21	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	239.16	150.00
95%	573.71	570.71
90%	667.78	664.84
85%	744.77	739.96
80%	812.15	807.41
75%	879.30	871.39
70%	939.71	934.12
65%	1,000.88	997.11
60%	1,063.77	1,061.54
55%	1,129.73	1,128.54
50%	1,201.32	1,199.27
45%	1,277.29	1,275.10
40%	1,359.85	1,357.75
35%	1,452.29	1,449.53
30%	1,557.68	1,553.78
25%	1,680.79	1,675.63
20%	1,826.23	1,823.70
15%	2,019.00	2,014.31
10%	2,295.35	2,284.70
5%	2,772.11	2,756.57
0%	5,997.72	6,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	1.44	2.44
Standard Deviation	1.49	1.49
Selected range is from -Infinity to 14.00		1.00 to 15.00



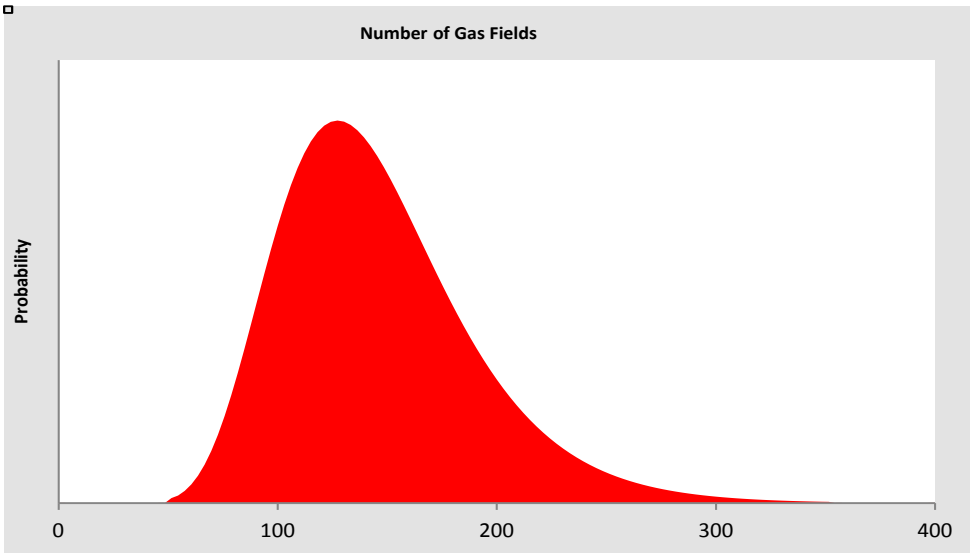
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2.42	2.42
Median	1.99	2.00
Mode	---	---
Standard Deviation	1.37	1.39
Variance	1.89	1.92
Skewness	2.83	2.86
Kurtosis	15.15	15.36
Coefficient of Variability	0.5686	0.5719
Minimum	1.03	1.00
Maximum	14.92	15.00
Range Width	13.89	14.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.03	1.00
95%	1.25	1.25
90%	1.33	1.33
85%	1.41	1.41
80%	1.48	1.49
75%	1.56	1.56
70%	1.64	1.64
65%	1.72	1.72
60%	1.80	1.80
55%	1.89	1.90
50%	1.99	2.00
45%	2.11	2.11
40%	2.24	2.24
35%	2.39	2.39
30%	2.56	2.56
25%	2.77	2.78
20%	3.03	3.05
15%	3.41	3.42
10%	3.96	3.97
5%	5.03	5.04
0%	14.92	15.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	145.31	146.31
Standard Deviation	44.27	44.27
Selected range is from -Infinity to 349.00		1.00 to 350.00



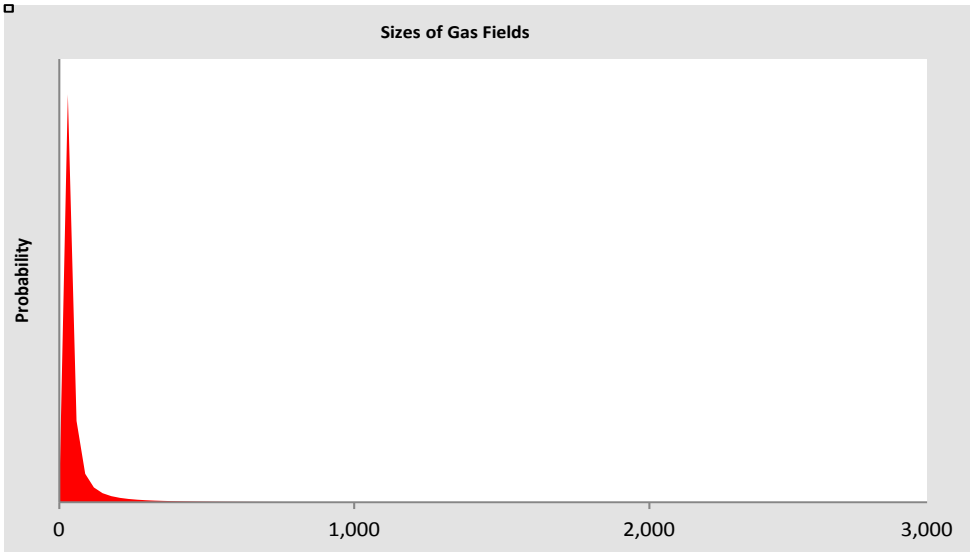
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	146.12	146.07
Median	140.00	139.95
Mode	---	---
Standard Deviation	43.69	43.65
Variance	1,908.76	1,905.59
Skewness	0.8361	0.8345
Kurtosis	3.99	3.96
Coefficient of Variability	0.2990	0.2988
Minimum	36.70	1.00
Maximum	349.50	350.00
Range Width	312.80	349.00
Mean Standard Error	0.20	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	36.70	1.00
95%	86.31	86.14
90%	95.81	95.87
85%	102.91	103.05
80%	109.01	109.15
75%	114.68	114.67
70%	119.84	119.86
65%	124.76	124.89
60%	129.94	129.85
55%	134.86	134.85
50%	140.00	139.95
45%	145.19	145.24
40%	150.87	150.83
35%	157.09	156.83
30%	163.73	163.41
25%	171.12	170.82
20%	179.72	179.46
15%	190.23	190.08
10%	204.06	204.32
5%	226.90	227.29
0%	349.50	350.00

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



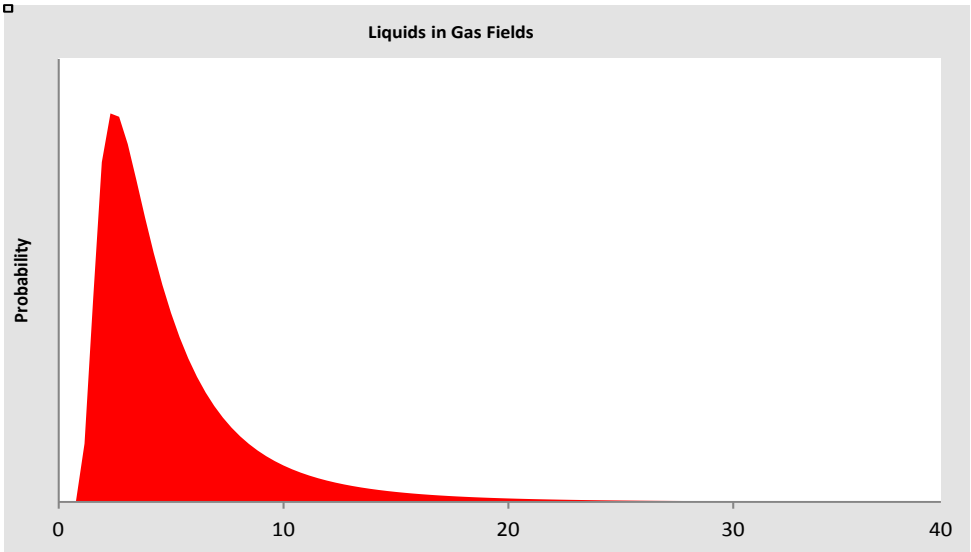
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	58.82	60.25
Median	18.00	17.97
Mode	---	---
Standard Deviation	152.90	154.48
Variance	23,377.10	23,862.89
Skewness	8.48	8.29
Kurtosis	103.86	98.71
Coefficient of Variability	2.60	2.56
Minimum	6.01	6.00
Maximum	2,998.50	3,000.00
Range Width	2,992.49	2,994.00
Mean Standard Error	0.68	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.01	6.00
95%	6.64	6.64
90%	7.24	7.21
85%	7.93	7.88
80%	8.72	8.67
75%	9.65	9.59
70%	10.75	10.70
65%	12.09	12.02
60%	13.68	13.62
55%	15.59	15.57
50%	18.00	17.97
45%	20.96	20.98
40%	24.74	24.82
35%	29.65	29.81
30%	36.46	36.51
25%	45.87	45.86
20%	59.38	59.69
15%	81.95	81.92
10%	122.51	123.32
5%	222.70	228.88
0%	2,998.50	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.23	5.23
Standard Deviation	4.22	4.22
Selected range is from -Infinity to 39.00		1.00 to 40.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.19	5.19
Median	4.00	4.00
Mode	---	---
Standard Deviation	3.91	3.93
Variance	15.28	15.48
Skewness	2.67	2.76
Kurtosis	13.65	14.47
Coefficient of Variability	0.7530	0.7583
Minimum	1.08	1.00
Maximum	39.79	40.00
Range Width	38.71	39.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.08	1.00
95%	1.77	1.77
90%	2.03	2.03
85%	2.26	2.27
80%	2.49	2.49
75%	2.71	2.71
70%	2.94	2.94
65%	3.18	3.18
60%	3.44	3.43
55%	3.70	3.70
50%	4.00	4.00
45%	4.33	4.33
40%	4.71	4.70
35%	5.13	5.12
30%	5.65	5.63
25%	6.25	6.24
20%	7.02	7.02
15%	8.09	8.07
10%	9.66	9.66
5%	12.70	12.66
0%	39.79	40.00

End of Assumptions

Simulation started on 9/13/2011 at 1:50 PM
Simulation stopped on 9/13/2011 at 2:04 PM