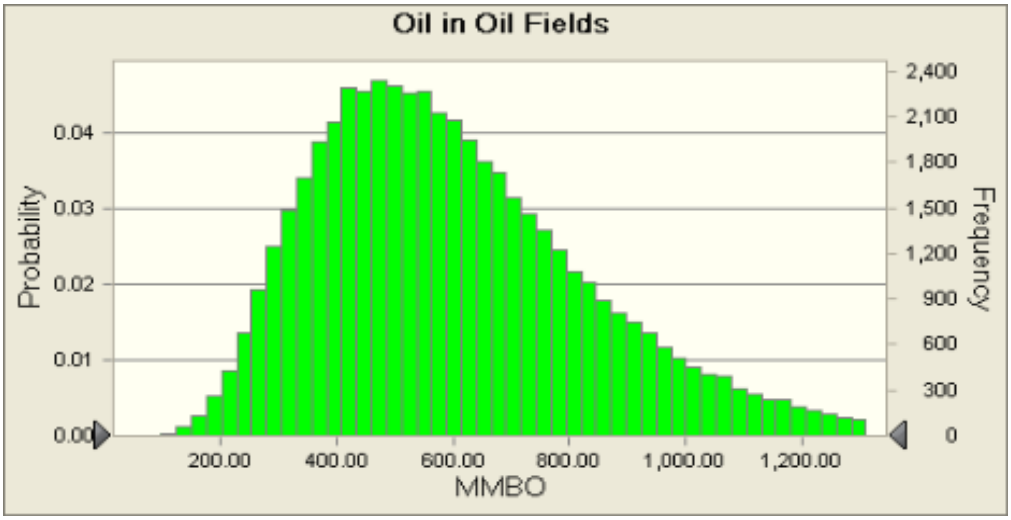
31300101
Eocene-Miocene Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 46.82 to 2,361.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.12



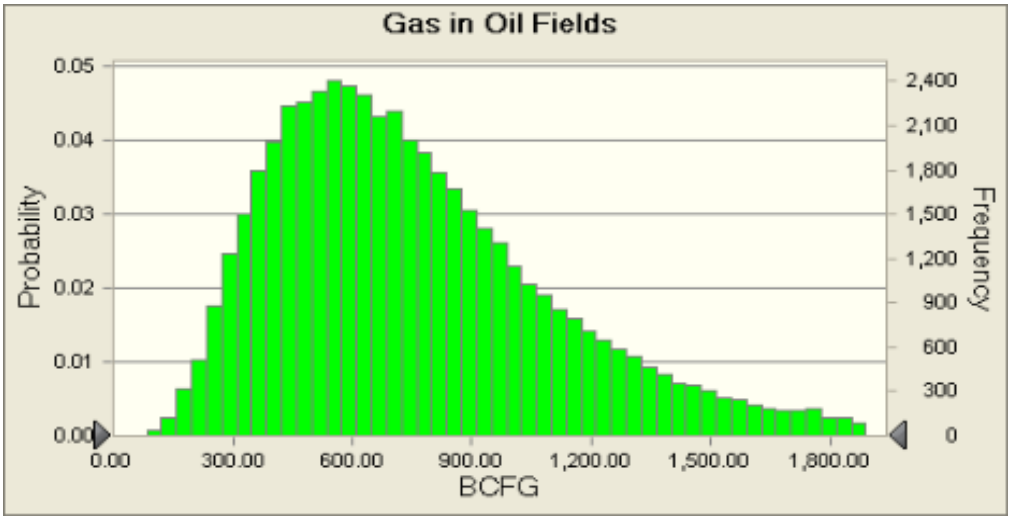
Statistics:	Forecast values
Trials	50,000
Mean	607.87
Median	566.53
Mode	---
Standard Deviation	250.95
Variance	62,974.33
Skewness	1.01
Kurtosis	4.50
Coefficient of Variability	0.4128
Minimum	46.82
Maximum	2,361.91
Range Width	2,315.10
Mean Standard Error	1.12

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	46.82
95%	278.56
90%	326.22
85%	363.86
80%	395.73
75%	425.42
70%	453.42
65%	481.43
60%	509.24
55%	537.70
50%	566.52
45%	596.45
40%	628.59
35%	663.72
30%	702.10
25%	745.51
20%	795.55
15%	859.62
10%	942.69
5%	1,079.06
0%	2,361.91

Forecast: Gas in Oil Fields

Summary:
Entire range is from 44.39 to 4,424.68
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.78



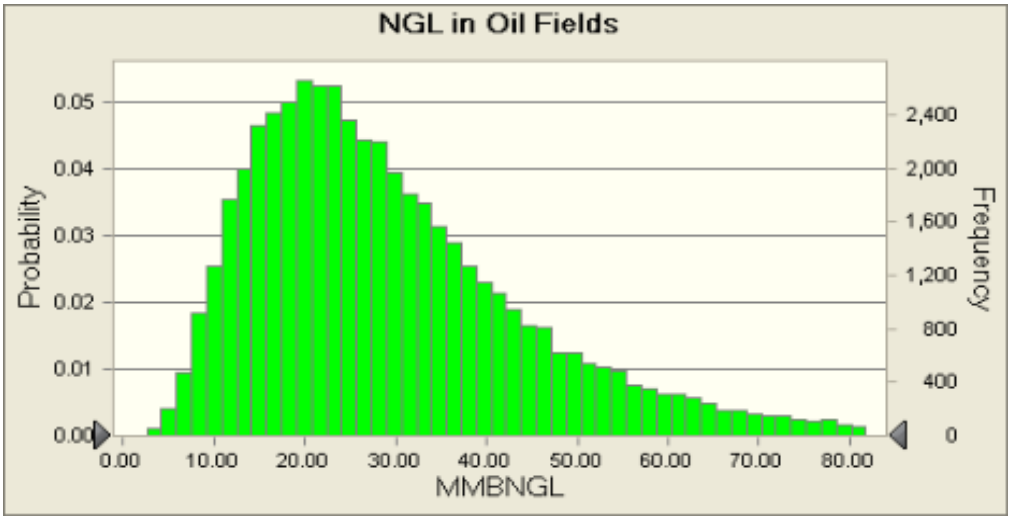
Statistics:	Forecast values
Trials	50,000
Mean	772.80
Median	694.48
Mode	---
Standard Deviation	399.14
Variance	159,310.58
Skewness	1.48
Kurtosis	7.01
Coefficient of Variability	0.5165
Minimum	44.39
Maximum	4,424.68
Range Width	4,380.29
Mean Standard Error	1.78

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	44.39
95%	289.56
90%	354.52
85%	405.31
80%	448.17
75%	490.02
70%	531.05
65%	570.28
60%	609.57
55%	650.56
50%	694.45
45%	737.86
40%	786.54
35%	838.09
30%	896.87
25%	963.73
20%	1,044.36
15%	1,148.53
10%	1,288.92
5%	1,526.23
0%	4,424.68

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.92 to 315.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



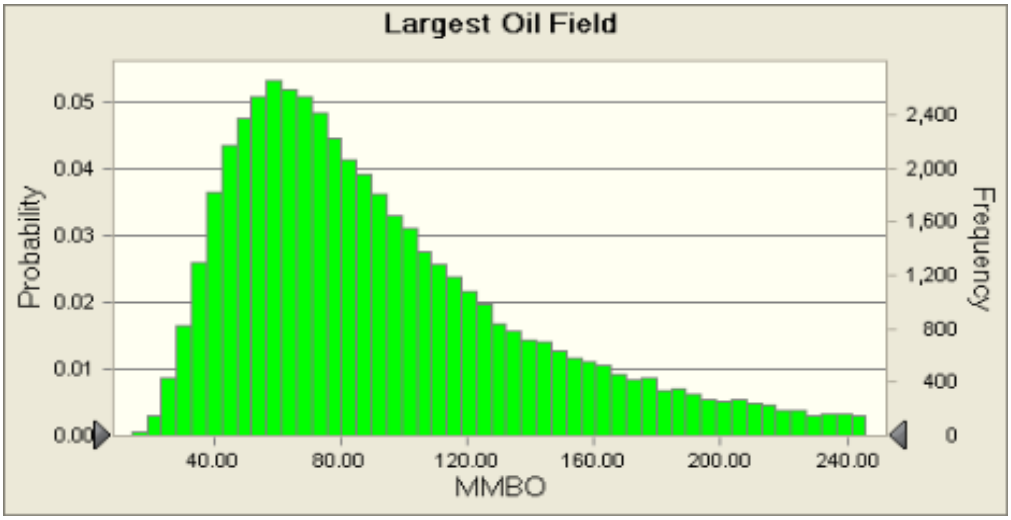
Statistics:	Forecast values
Trials	50,000
Mean	30.33
Median	26.30
Mode	---
Standard Deviation	18.38
Variance	337.67
Skewness	2.56
Kurtosis	18.94
Coefficient of Variability	0.6058
Minimum	0.92
Maximum	315.96
Range Width	315.04
Mean Standard Error	0.08

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.92
95%	10.34
90%	12.75
85%	14.72
80%	16.47
75%	18.13
70%	19.74
65%	21.30
60%	22.85
55%	24.48
50%	26.30
45%	28.18
40%	30.16
35%	32.42
30%	34.85
25%	37.74
20%	41.25
15%	45.80
10%	52.31
5%	63.19
0%	315.96

Forecast: Largest Oil Field

Summary:
Entire range is from 13.88 to 299.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.24



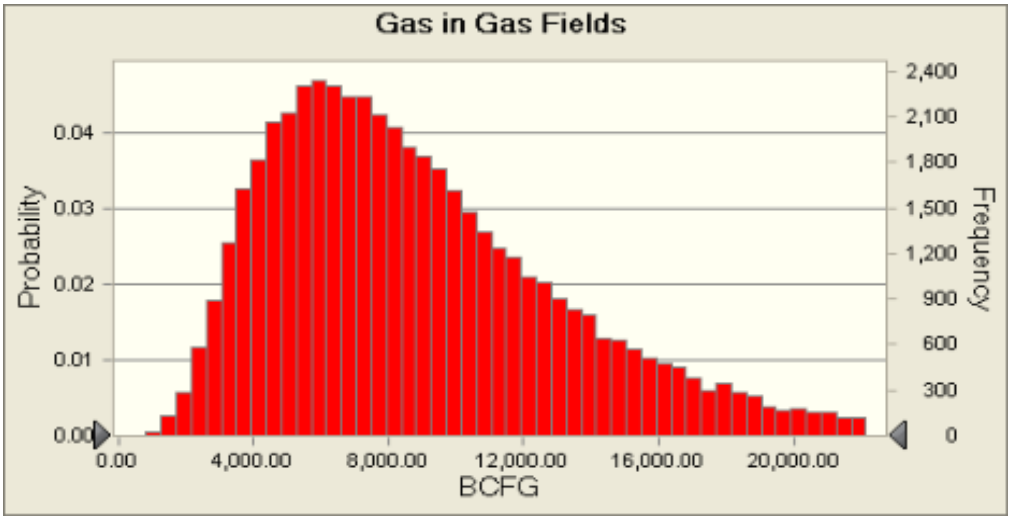
Statistics:	Forecast values
Trials	50,000
Mean	96.60
Median	82.34
Mode	---
Standard Deviation	53.33
Variance	2,844.48
Skewness	1.30
Kurtosis	4.53
Coefficient of Variability	0.5521
Minimum	13.88
Maximum	299.96
Range Width	286.08
Mean Standard Error	0.24

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	13.88
95%	36.89
90%	43.39
85%	48.64
80%	53.54
75%	58.07
70%	62.52
65%	67.07
60%	71.85
55%	76.80
50%	82.34
45%	88.08
40%	94.70
35%	102.10
30%	110.48
25%	120.52
20%	133.35
15%	149.94
10%	172.39
5%	209.47
0%	299.96

Forecast: Gas in Gas Fields

Summary:
Entire range is from 391.26 to 42,519.76
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 20.94



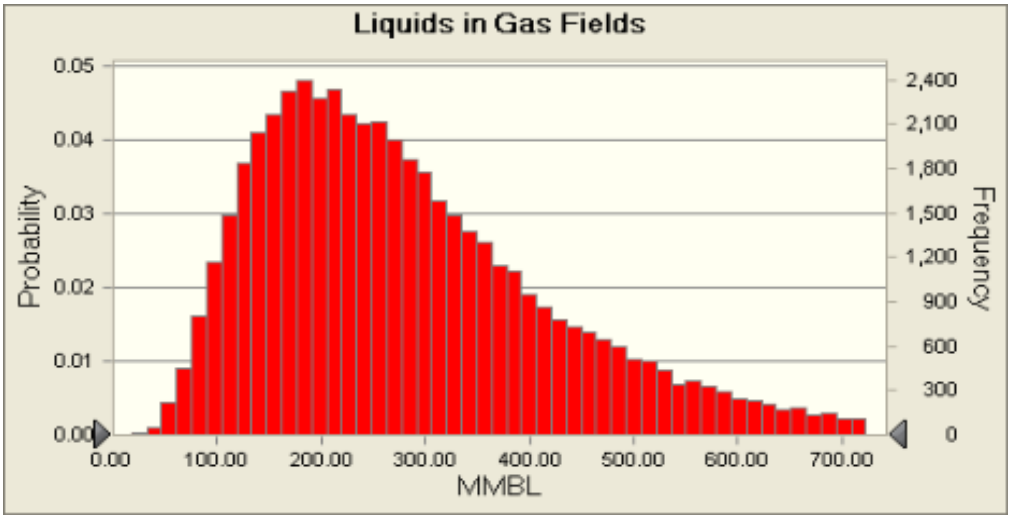
Statistics:	Forecast values
Trials	50,000
Mean	9,034.71
Median	8,077.72
Mode	---
Standard Deviation	4,681.38
Variance	21,915,273.24
Skewness	1.19
Kurtosis	4.94
Coefficient of Variability	0.5182
Minimum	391.26
Maximum	42,519.76
Range Width	42,128.51
Mean Standard Error	20.94

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	391.26
95%	3,278.69
90%	3,993.17
85%	4,576.29
80%	5,114.15
75%	5,600.90
70%	6,071.73
65%	6,551.30
60%	7,052.99
55%	7,556.49
50%	8,077.66
45%	8,640.79
40%	9,241.38
35%	9,874.48
30%	10,616.78
25%	11,481.47
20%	12,484.82
15%	13,716.60
10%	15,370.74
5%	18,046.50
0%	42,519.76

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 17.59 to 1,520.94
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.69



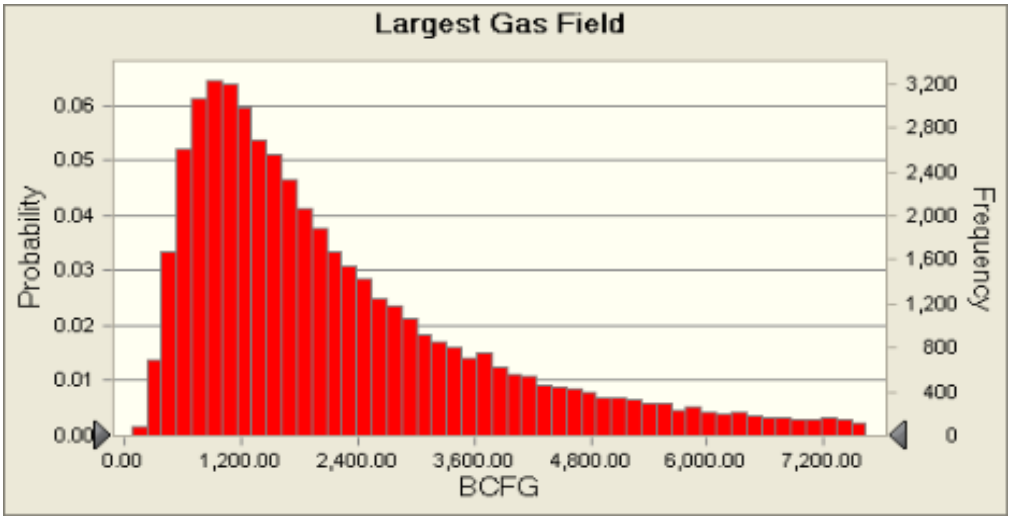
Statistics:	Forecast values
Trials	50,000
Mean	288.60
Median	255.94
Mode	---
Standard Deviation	155.27
Variance	24,108.81
Skewness	1.30
Kurtosis	5.44
Coefficient of Variability	0.5380
Minimum	17.59
Maximum	1,520.94
Range Width	1,503.35
Mean Standard Error	0.69

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	17.59
95%	101.66
90%	125.07
85%	143.33
80%	160.16
75%	175.73
70%	190.81
65%	206.48
60%	222.27
55%	238.91
50%	255.94
45%	273.62
40%	292.82
35%	313.87
30%	338.06
25%	365.43
20%	398.26
15%	441.85
10%	497.35
5%	588.37
0%	1,520.94

Forecast: Largest Gas Field

Summary:
Entire range is from 64.64 to 9,997.11
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.41



Statistics:	Forecast values
Trials	50,000
Mean	2,371.41
Median	1,758.05
Mode	---
Standard Deviation	1,880.66
Variance	3,536,897.29
Skewness	1.62
Kurtosis	5.51
Coefficient of Variability	0.7931
Minimum	64.64
Maximum	9,997.11
Range Width	9,932.47
Mean Standard Error	8.41

Forecast: Largest Gas Field (continued)

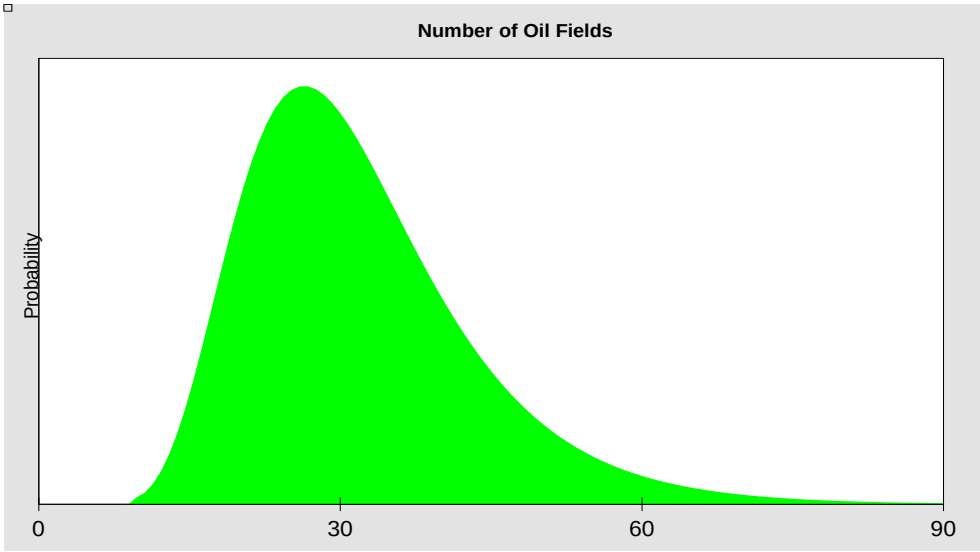
Percentiles:	BCFG
100%	64.64
95%	532.92
90%	680.30
85%	807.58
80%	928.18
75%	1,048.19
70%	1,169.79
65%	1,300.90
60%	1,443.92
55%	1,594.53
50%	1,758.01
45%	1,947.00
40%	2,162.07
35%	2,411.06
30%	2,701.97
25%	3,059.58
20%	3,523.82
15%	4,122.22
10%	5,022.61
5%	6,518.64
0%	9,997.11

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	30.97	31.97
Standard Deviation	11.62	11.62
Selected range is from -Infinity to 89.00		1.00 to 90.00



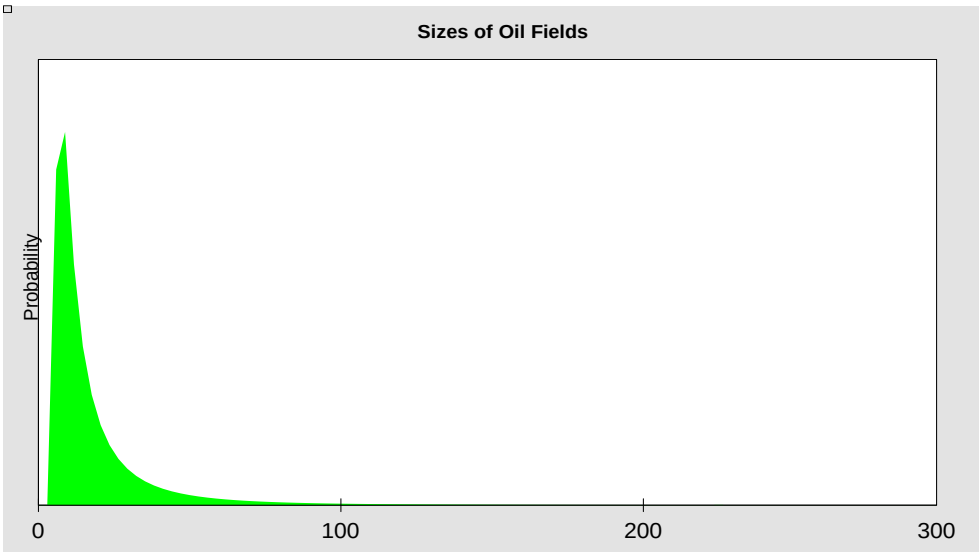
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.78	31.91
Median	29.83	29.99
Mode	---	---
Standard Deviation	11.40	11.42
Variance	129.96	130.46
Skewness	1.04	1.03
Kurtosis	4.55	4.53
Coefficient of Variability	0.3587	0.3580
Minimum	7.50	1.00
Maximum	89.82	90.00
Range Width	82.32	89.00
Mean Standard Error	0.05	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	7.50	1.00
95%	16.91	16.96
90%	19.19	19.21
85%	20.81	20.90
80%	22.26	22.36
75%	23.57	23.70
70%	24.85	24.97
65%	26.06	26.21
60%	27.28	27.44
55%	28.54	28.70
50%	29.83	29.99
45%	31.19	31.34
40%	32.65	32.77
35%	34.24	34.33
30%	35.94	36.05
25%	37.88	38.01
20%	40.17	40.32
15%	43.01	43.19
10%	46.93	47.09
5%	53.37	53.50
0%	89.82	90.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	14.57	19.57
Standard Deviation	26.59	26.59
Selected range is from -Infinity to 295.00		5.00 to 300.00



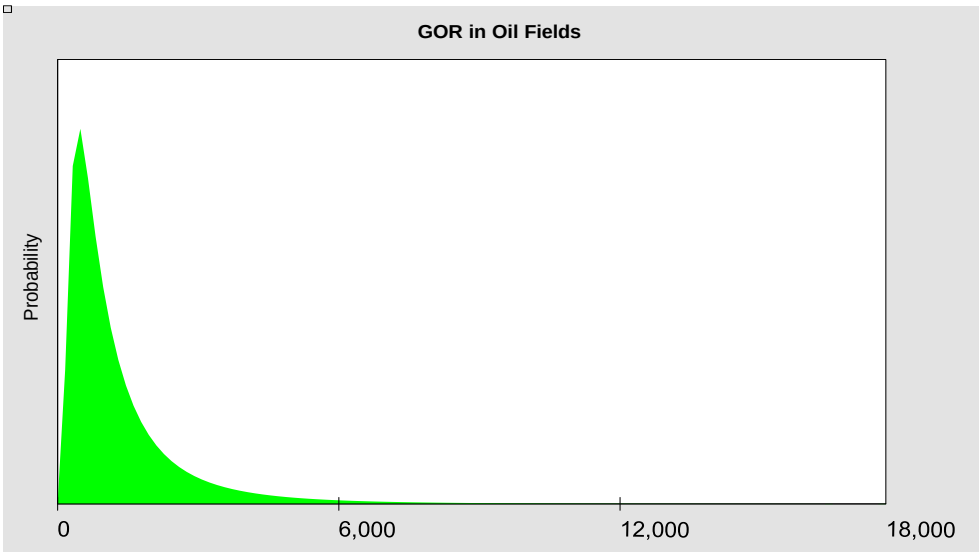
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	19.19	19.14
Median	12.04	11.99
Mode	---	---
Standard Deviation	22.09	22.10
Variance	488.04	488.36
Skewness	4.63	4.66
Kurtosis	34.54	35.09
Coefficient of Variability	1.15	1.15
Minimum	5.04	5.00
Maximum	297.87	300.00
Range Width	292.83	295.00
Mean Standard Error	0.10	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.04	5.00
95%	5.95	5.95
90%	6.49	6.48
85%	7.01	6.99
80%	7.52	7.52
75%	8.09	8.09
70%	8.72	8.71
65%	9.42	9.39
60%	10.19	10.14
55%	11.05	11.00
50%	12.04	11.99
45%	13.19	13.14
40%	14.54	14.49
35%	16.18	16.14
30%	18.25	18.18
25%	20.94	20.79
20%	24.48	24.33
15%	29.56	29.44
10%	37.95	37.83
5%	55.83	55.72
0%	297.87	300.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,281.13	1,291.13
Standard Deviation	1,635.57	1,635.57
Selected range is from -Infinity to 16,490.00		10.00 to 16,500.00



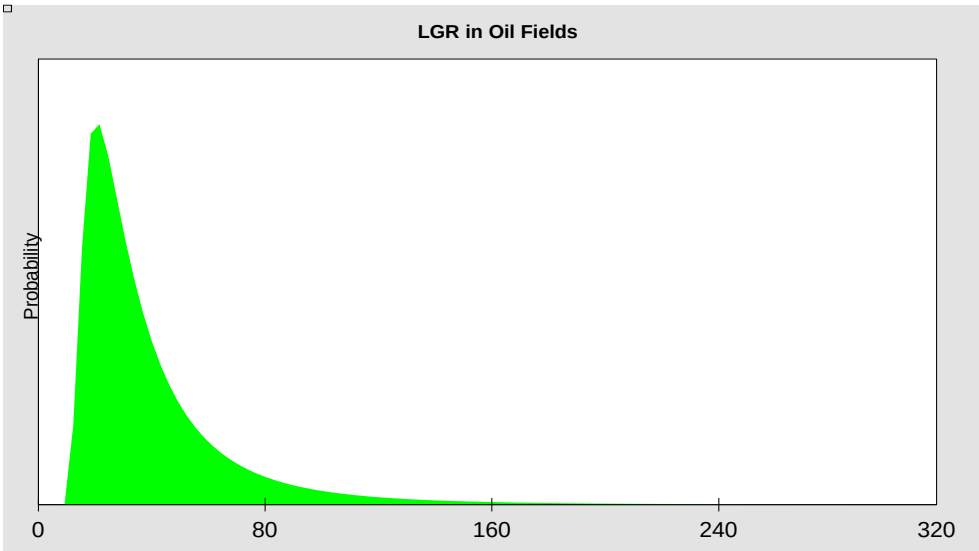
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,271.12	1,269.86
Median	801.44	799.03
Mode	---	---
Standard Deviation	1,462.72	1,472.82
Variance	2,139,552.97	2,169,204.21
Skewness	3.38	3.47
Kurtosis	20.17	21.03
Coefficient of Variability	1.15	1.16
Minimum	27.83	10.00
Maximum	16,490.41	16,500.00
Range Width	16,462.58	16,490.00
Mean Standard Error	6.54	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	27.83	10.00
95%	166.60	166.67
90%	232.98	233.92
85%	292.88	294.93
80%	353.24	355.07
75%	415.13	416.68
70%	481.21	481.32
65%	550.29	550.34
60%	625.46	625.17
55%	708.92	707.39
50%	801.42	799.03
45%	902.64	902.68
40%	1,024.95	1,021.94
35%	1,166.28	1,161.94
30%	1,331.19	1,330.43
25%	1,541.88	1,539.90
20%	1,820.48	1,812.29
15%	2,210.02	2,191.14
10%	2,800.28	2,781.61
5%	3,984.99	3,956.02
0%	16,490.41	16,500.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	29.64	39.64
Standard Deviation	32.42	32.42
Selected range is from -Infinity to 310.00		10.00 to 320.00



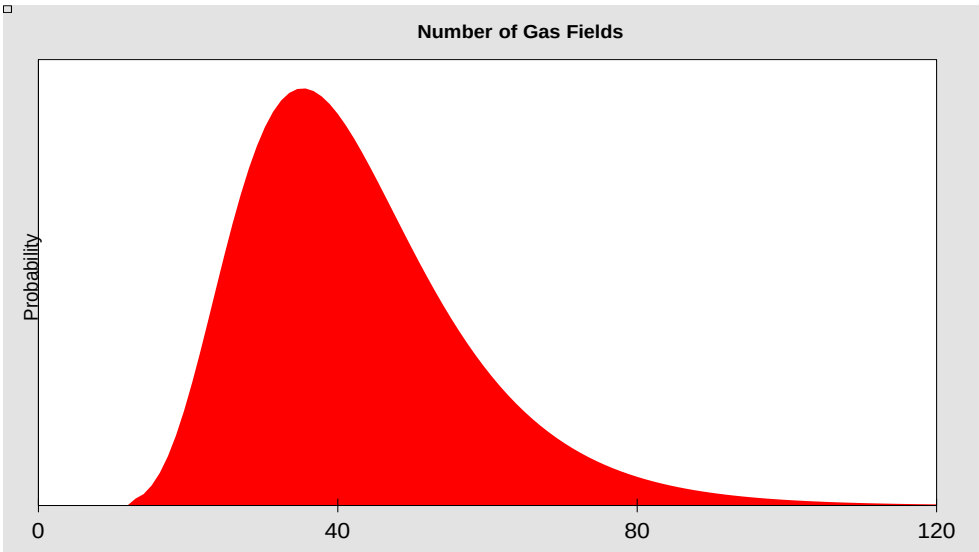
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	39.15	39.26
Median	29.87	29.98
Mode	---	---
Standard Deviation	29.88	29.89
Variance	892.87	893.65
Skewness	3.04	3.01
Kurtosis	16.85	16.66
Coefficient of Variability	0.76	0.76
Minimum	10.37	10.00
Maximum	319.24	320.00
Range Width	308.87	310.00
Mean Standard Error	0.13	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.37	10.00
95%	14.67	14.65
90%	16.41	16.41
85%	18.00	17.97
80%	19.47	19.47
75%	20.97	20.99
70%	22.58	22.55
65%	24.20	24.20
60%	25.94	25.96
55%	27.79	27.87
50%	29.87	29.98
45%	32.18	32.33
40%	34.87	35.00
35%	37.91	38.11
30%	41.55	41.79
25%	46.21	46.30
20%	51.86	52.09
15%	59.55	59.99
10%	71.74	72.05
5%	94.61	95.34
0%	319.24	320.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	41.63	42.63
Standard Deviation	15.53	15.53
Selected range is from -Infinity to 119.00		1.00 to 120.00



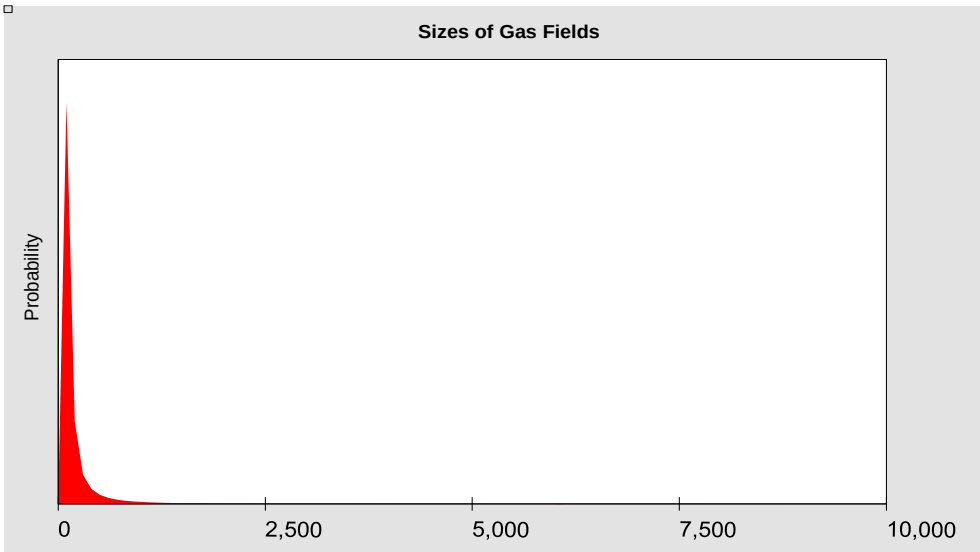
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	42.45	42.54
Median	39.87	39.98
Mode	---	---
Standard Deviation	15.18	15.27
Variance	230.45	233.08
Skewness	1.03	1.03
Kurtosis	4.55	4.51
Coefficient of Variability	0.3576	0.3589
Minimum	9.42	1.00
Maximum	119.91	120.00
Range Width	110.49	119.00
Mean Standard Error	0.07	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.42	1.00
95%	22.57	22.53
90%	25.57	25.55
85%	27.77	27.82
80%	29.72	29.77
75%	31.55	31.56
70%	33.26	33.26
65%	34.91	34.92
60%	36.56	36.58
55%	38.14	38.25
50%	39.87	39.98
45%	41.67	41.79
40%	43.60	43.71
35%	45.70	45.79
30%	47.96	48.09
25%	50.57	50.71
20%	53.66	53.79
15%	57.55	57.62
10%	62.59	62.83
5%	70.92	71.39
0%	119.91	120.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	201.21	231.21
Standard Deviation	942.67	942.67
Selected range is from -Infinity to 9,970.00		30.00 to 10,000.00



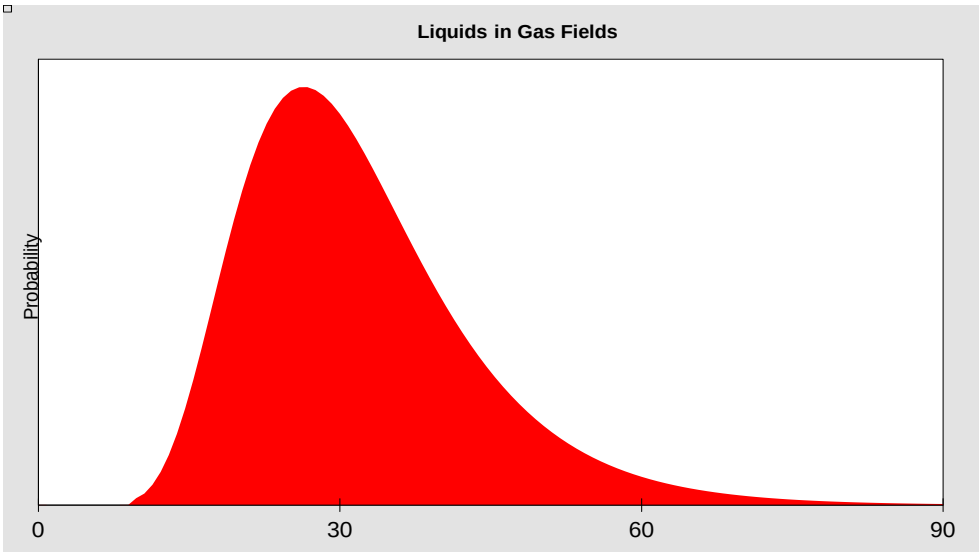
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	211.28	214.87
Median	72.36	71.91
Mode	---	---
Standard Deviation	509.26	519.00
Variance	259,350.67	269,361.78
Skewness	8.14	8.18
Kurtosis	96.40	96.36
Coefficient of Variability	2.41	2.42
Minimum	30.02	30.00
Maximum	9,532.85	10,000.00
Range Width	9,502.83	9,970.00
Mean Standard Error	2.28	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.02	30.00
95%	32.31	32.28
90%	34.34	34.34
85%	36.71	36.70
80%	39.44	39.46
75%	42.72	42.71
70%	46.58	46.57
65%	51.25	51.20
60%	57.02	56.77
55%	64.00	63.56
50%	72.36	71.91
45%	82.42	82.33
40%	95.82	95.59
35%	113.13	112.82
30%	136.10	135.89
25%	168.18	168.02
20%	216.78	215.38
15%	294.84	291.34
10%	433.31	432.27
5%	784.50	789.80
0%	9,532.85	10,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	30.97	31.97
Standard Deviation	11.62	11.62
Selected range is from -Infinity to 89.00		1.00 to 90.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.98	31.91
Median	30.08	29.99
Mode	---	---
Standard Deviation	11.45	11.42
Variance	131.14	130.46
Skewness	1.03	1.03
Kurtosis	4.53	4.53
Coefficient of Variability	0.3580	0.3580
Minimum	6.61	1.00
Maximum	89.85	90.00
Range Width	83.24	89.00
Mean Standard Error	0.05	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.61	1.00
95%	16.99	16.96
90%	19.22	19.21
85%	20.93	20.90
80%	22.38	22.36
75%	23.73	23.70
70%	25.03	24.97
65%	26.32	26.21
60%	27.54	27.44
55%	28.81	28.70
50%	30.08	29.99
45%	31.43	31.34
40%	32.89	32.77
35%	34.43	34.33
30%	36.14	36.05
25%	38.09	38.01
20%	40.38	40.32
15%	43.27	43.19
10%	47.22	47.09
5%	53.57	53.50
0%	89.85	90.00

End of Assumptions

Simulation started on 10/5/2009 at 12:18:47
Simulation stopped on 10/5/2009 at 12:39:45