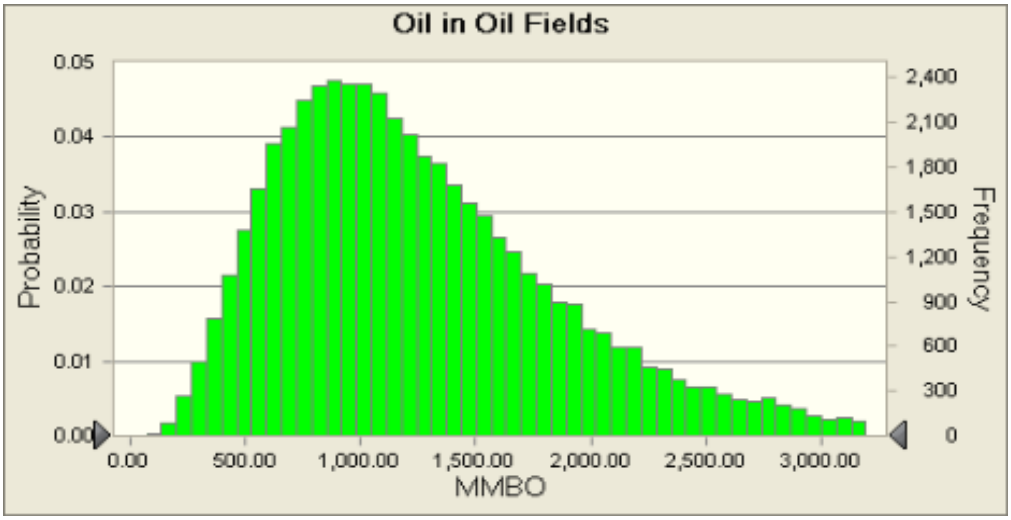
20350101
Nile Margin Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 5.41 to 6,541.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.05



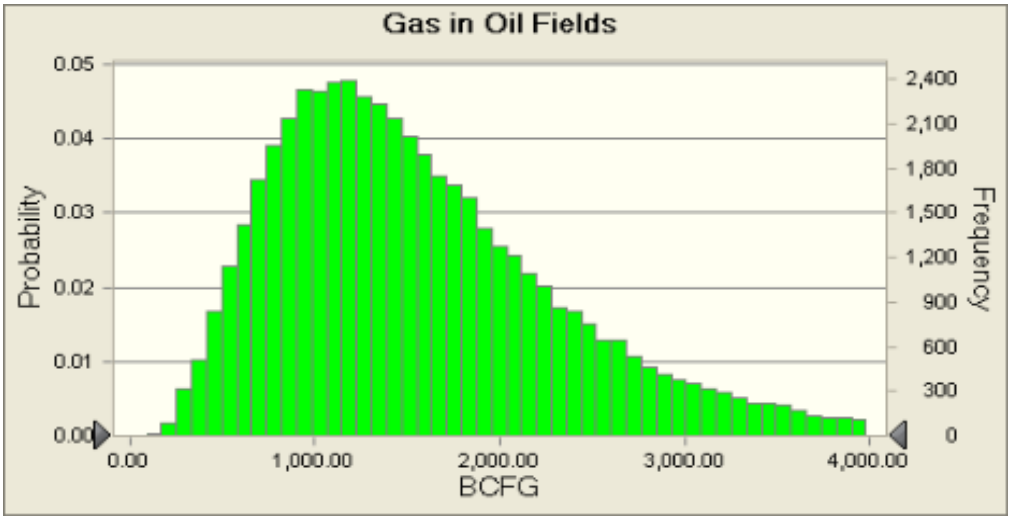
Statistics:	Forecast values
Trials	50,000
Mean	1,287.62
Median	1,149.99
Mode	---
Standard Deviation	681.09
Variance	463,879.84
Skewness	1.28
Kurtosis	5.39
Coefficient of Variability	0.5290
Minimum	5.41
Maximum	6,541.07
Range Width	6,535.67
Mean Standard Error	3.05

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	5.41
95%	448.87
90%	563.18
85%	650.09
80%	727.57
75%	798.51
70%	869.73
65%	937.53
60%	1,005.63
55%	1,075.88
50%	1,149.97
45%	1,229.73
40%	1,314.67
35%	1,407.78
30%	1,509.06
25%	1,626.06
20%	1,765.50
15%	1,941.10
10%	2,184.06
5%	2,600.43
0%	6,541.07

Forecast: Gas in Oil Fields

Summary:
Entire range is from 11.10 to 8,284.46
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.81



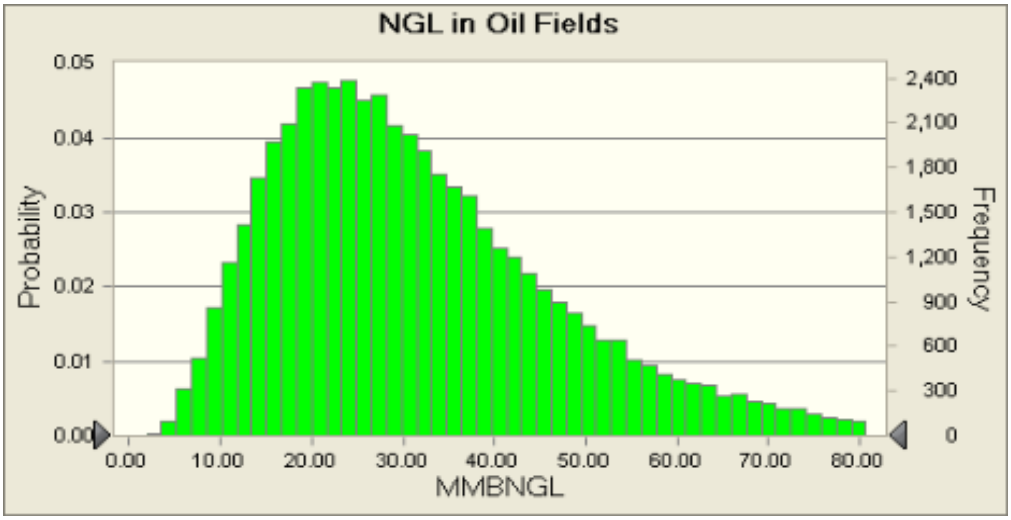
Statistics:	Forecast values
Trials	50,000
Mean	1,596.68
Median	1,424.53
Mode	---
Standard Deviation	851.83
Variance	725,618.54
Skewness	1.30
Kurtosis	5.49
Coefficient of Variability	0.5335
Minimum	11.10
Maximum	8,284.46
Range Width	8,273.36
Mean Standard Error	3.81

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	11.10
95%	550.86
90%	692.83
85%	800.61
80%	897.69
75%	985.17
70%	1,072.54
65%	1,157.48
60%	1,243.87
55%	1,331.20
50%	1,424.51
45%	1,524.11
40%	1,628.11
35%	1,744.10
30%	1,869.36
25%	2,016.66
20%	2,193.97
15%	2,414.70
10%	2,711.53
5%	3,237.11
0%	8,284.46

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.23 to 158.56
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



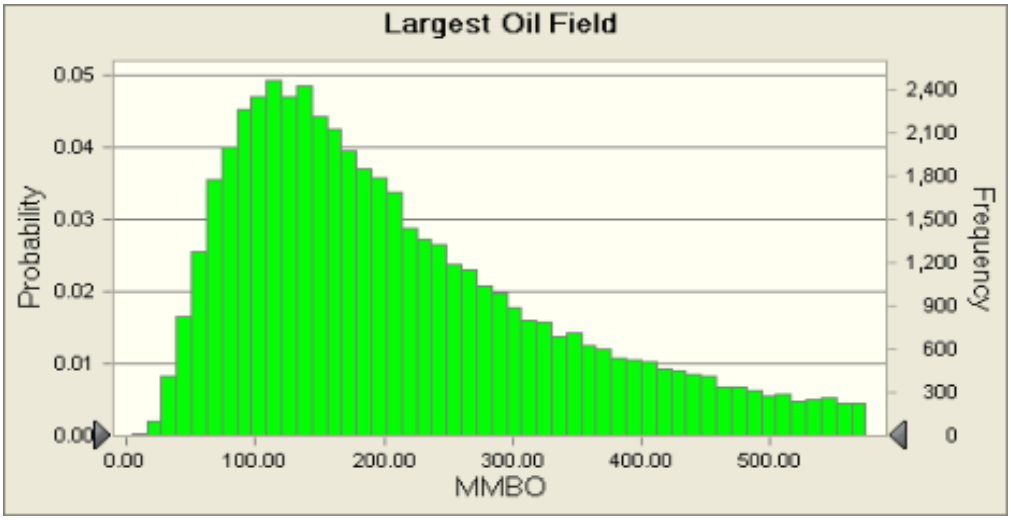
Statistics:	Forecast values
Trials	50,000
Mean	32.31
Median	28.84
Mode	---
Standard Deviation	17.27
Variance	298.35
Skewness	1.30
Kurtosis	5.49
Coefficient of Variability	0.5345
Minimum	0.23
Maximum	158.56
Range Width	158.33
Mean Standard Error	0.08

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.23
95%	11.16
90%	14.02
85%	16.16
80%	18.17
75%	19.93
70%	21.67
65%	23.43
60%	25.14
55%	26.95
50%	28.84
45%	30.84
40%	32.94
35%	35.31
30%	37.80
25%	40.83
20%	44.34
15%	48.86
10%	55.01
5%	65.66
0%	158.56

Forecast: Largest Oil Field

Summary:
Entire range is from 3.90 to 599.93
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.58



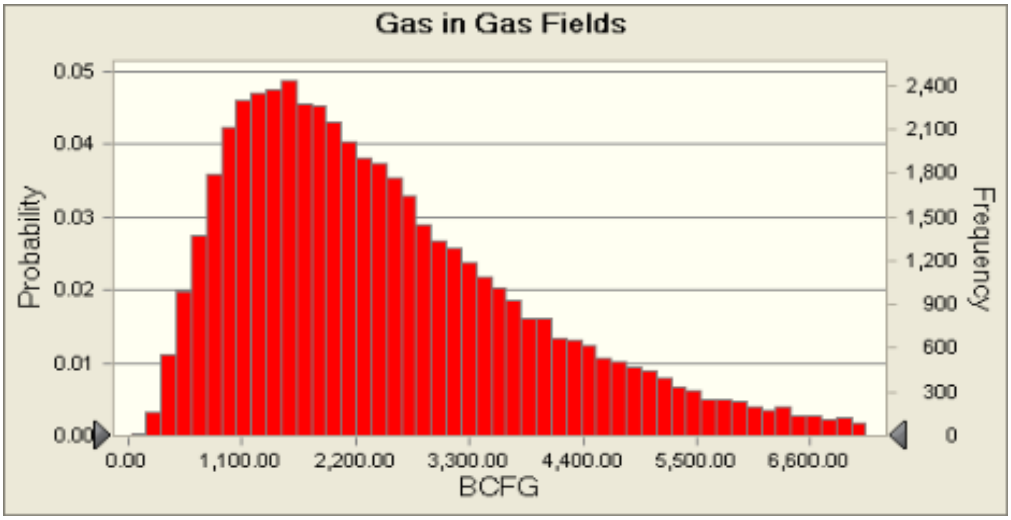
Statistics:	Forecast values
Trials	50,000
Mean	214.13
Median	181.15
Mode	---
Standard Deviation	128.58
Variance	16,534.07
Skewness	0.9572
Kurtosis	3.25
Coefficient of Variability	0.6005
Minimum	3.90
Maximum	599.93
Range Width	596.02
Mean Standard Error	0.58

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	3.90
95%	61.06
90%	77.37
85%	91.14
80%	103.56
75%	115.51
70%	127.69
65%	139.89
60%	152.69
55%	166.38
50%	181.15
45%	197.11
40%	214.31
35%	234.96
30%	258.23
25%	285.03
20%	317.57
15%	357.70
10%	410.73
5%	482.80
0%	599.93

Forecast: Gas in Gas Fields

Summary:
Entire range is from 31.49 to 13,849.74
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.29



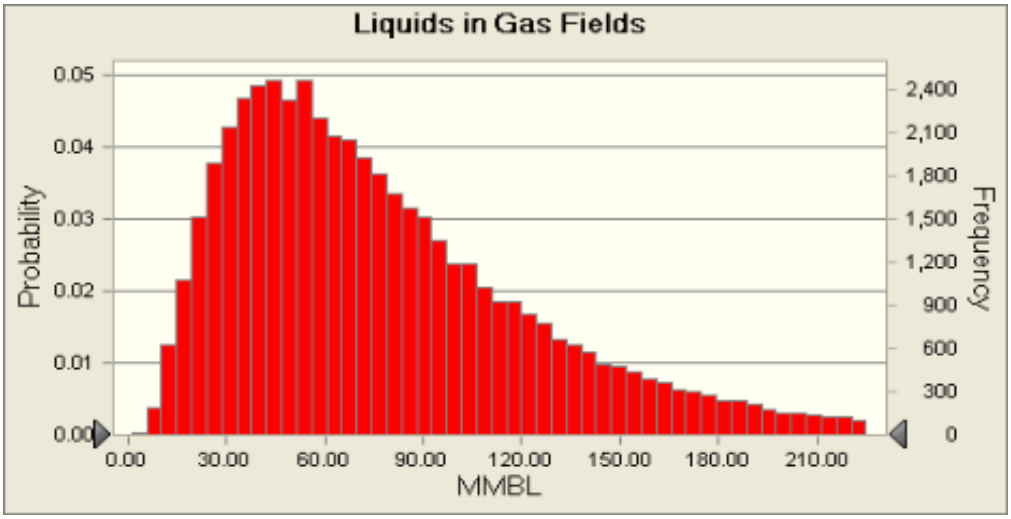
Statistics:	Forecast values
Trials	50,000
Mean	2,573.72
Median	2,193.01
Mode	---
Standard Deviation	1,629.55
Variance	2,655,434.56
Skewness	1.44
Kurtosis	6.01
Coefficient of Variability	0.6331
Minimum	31.49
Maximum	13,849.74
Range Width	13,818.24
Mean Standard Error	7.29

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	31.49
95%	698.48
90%	909.82
85%	1,079.39
80%	1,230.78
75%	1,387.63
70%	1,537.09
65%	1,692.97
60%	1,849.96
55%	2,018.22
50%	2,192.96
45%	2,383.81
40%	2,581.27
35%	2,805.12
30%	3,062.31
25%	3,356.96
20%	3,705.28
15%	4,147.91
10%	4,756.03
5%	5,750.01
0%	13,849.74

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.12 to 446.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.23



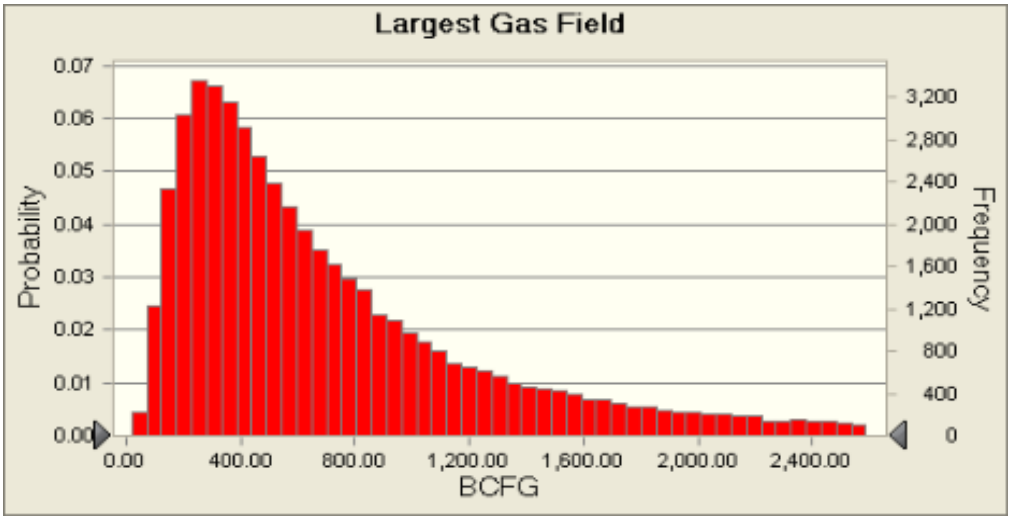
Statistics:	Forecast values
Trials	50,000
Mean	80.19
Median	67.94
Mode	---
Standard Deviation	51.71
Variance	2,673.54
Skewness	1.50
Kurtosis	6.31
Coefficient of Variability	0.6448
Minimum	1.12
Maximum	446.91
Range Width	445.79
Mean Standard Error	0.23

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.12
95%	21.44
90%	27.84
85%	33.27
80%	38.17
75%	42.78
70%	47.50
65%	52.37
60%	57.09
55%	62.43
50%	67.94
45%	73.80
40%	80.07
35%	87.18
30%	94.87
25%	104.28
20%	115.61
15%	129.27
10%	148.88
5%	181.47
0%	446.91

Forecast: Largest Gas Field

Summary:
Entire range is from 18.98 to 3,599.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.91



Statistics:	Forecast values
Trials	50,000
Mean	765.51
Median	552.95
Mode	---
Standard Deviation	650.76
Variance	423,490.32
Skewness	1.78
Kurtosis	6.27
Coefficient of Variability	0.8501
Minimum	18.98
Maximum	3,599.53
Range Width	3,580.56
Mean Standard Error	2.91

Forecast: Largest Gas Field (continued)

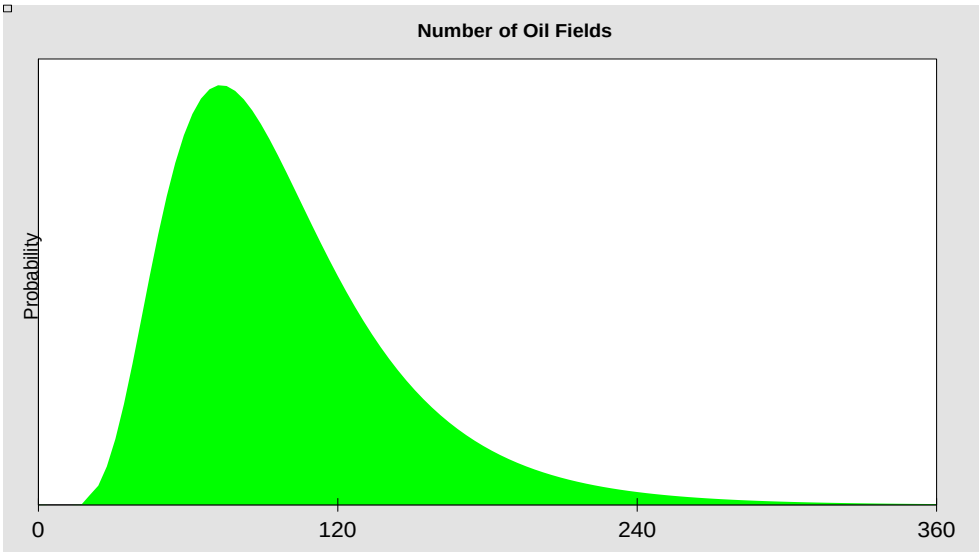
Percentiles:	BCFG
100%	18.98
95%	149.47
90%	198.56
85%	239.04
80%	278.20
75%	317.42
70%	358.35
65%	401.43
60%	447.17
55%	496.90
50%	552.94
45%	614.82
40%	686.30
35%	768.22
30%	859.38
25%	981.19
20%	1,130.65
15%	1,344.15
10%	1,650.65
5%	2,188.70
0%	3,599.53

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	98.54	99.54
Standard Deviation	46.84	46.84
Selected range is from -Infinity to 359.00		1.00 to 360.00



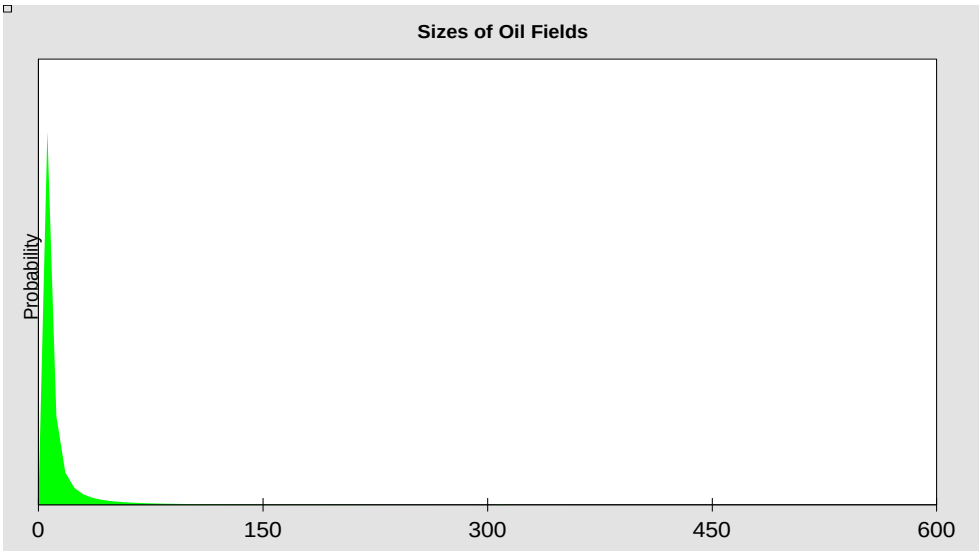
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	99.45	99.23
Median	90.00	89.95
Mode	---	---
Standard Deviation	46.30	45.79
Variance	2,143.41	2,096.52
Skewness	1.35	1.32
Kurtosis	5.64	5.56
Coefficient of Variability	0.4655	0.4614
Minimum	15.08	1.00
Maximum	359.59	360.00
Range Width	344.51	359.00
Mean Standard Error	0.21	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	15.08	1.00
95%	43.44	43.35
90%	50.81	50.90
85%	56.79	56.73
80%	61.90	61.85
75%	66.67	66.62
70%	71.23	71.21
65%	75.86	75.76
60%	80.49	80.35
55%	85.07	85.05
50%	90.00	89.95
45%	94.95	95.13
40%	100.49	100.71
35%	106.77	106.82
30%	113.60	113.66
25%	121.75	121.54
20%	131.23	130.96
15%	143.23	142.85
10%	159.95	159.34
5%	189.04	187.22
0%	359.59	360.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	13.04	14.04
Standard Deviation	55.13	55.13
Selected range is from -Infinity to 599.00		1.00 to 600.00



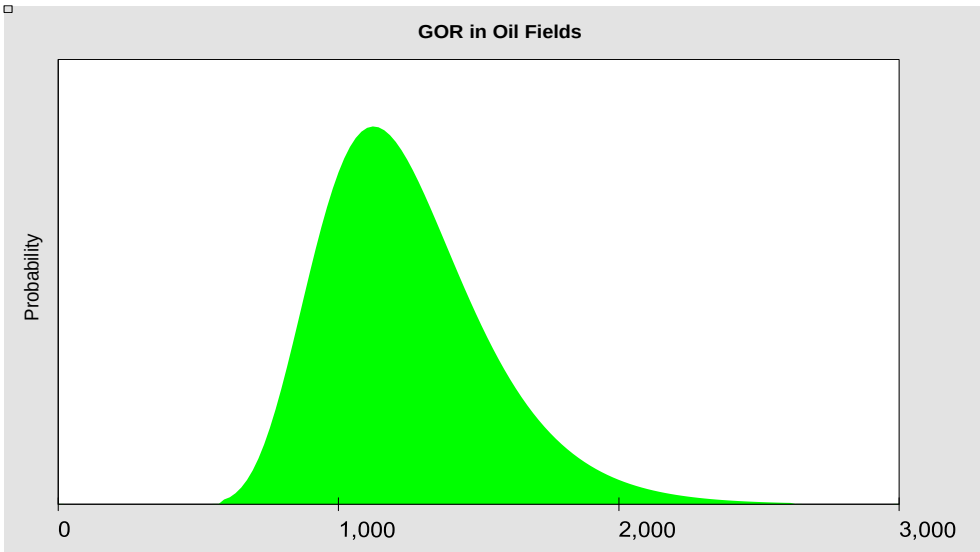
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	13.00	13.06
Median	3.98	3.99
Mode	---	---
Standard Deviation	32.20	32.18
Variance	1,037.12	1,035.68
Skewness	7.63	7.81
Kurtosis	84.50	88.44
Coefficient of Variability	2.48	2.46
Minimum	1.00	1.00
Maximum	594.43	600.00
Range Width	593.43	599.00
Mean Standard Error	0.14	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.18	1.18
90%	1.33	1.33
85%	1.50	1.51
80%	1.70	1.71
75%	1.93	1.94
70%	2.20	2.22
65%	2.53	2.55
60%	2.93	2.94
55%	3.41	3.41
50%	3.98	3.99
45%	4.72	4.71
40%	5.62	5.62
35%	6.80	6.79
30%	8.35	8.35
25%	10.49	10.49
20%	13.58	13.63
15%	18.73	18.62
10%	27.89	27.75
5%	50.99	50.52
0%	594.43	600.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,040.95	1,240.95
Standard Deviation	300.94	300.94
Selected range is from -Infinity to 2,400.00		200.00 to 2,600.00



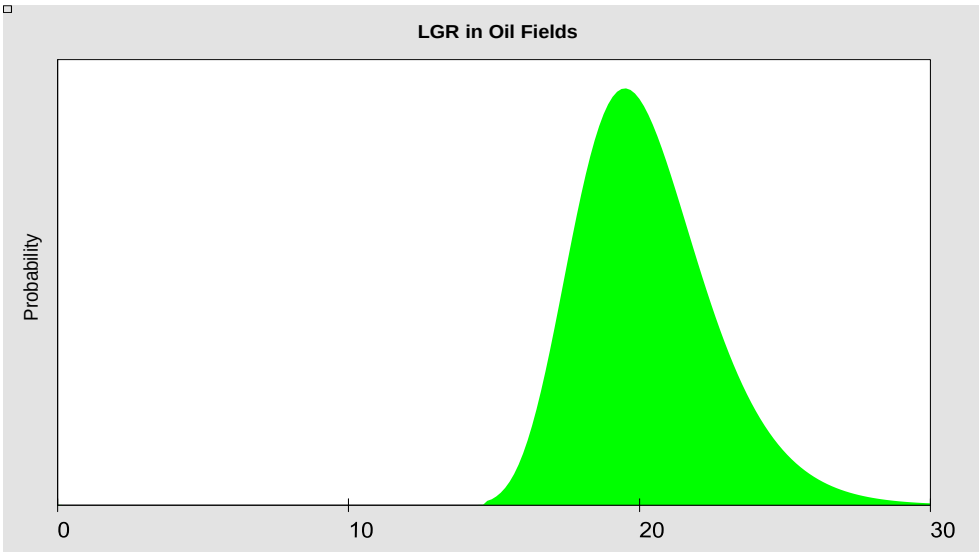
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,237.54	1,239.39
Median	1,198.07	1,199.64
Mode	---	---
Standard Deviation	293.94	296.94
Variance	86,401.05	88,174.88
Skewness	0.7813	0.7906
Kurtosis	3.83	3.85
Coefficient of Variability	0.2375	0.2396
Minimum	512.36	200.00
Maximum	2,594.41	2,600.00
Range Width	2,082.05	2,400.00
Mean Standard Error	1.31	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	512.36	200.00
95%	828.71	827.41
90%	896.46	895.41
85%	945.81	945.40
80%	987.58	987.69
75%	1,025.00	1,025.87
70%	1,060.85	1,061.72
65%	1,095.30	1,096.34
60%	1,128.38	1,130.46
55%	1,162.94	1,164.71
50%	1,198.06	1,199.64
45%	1,234.63	1,235.84
40%	1,273.62	1,273.95
35%	1,313.83	1,314.80
30%	1,358.35	1,359.52
25%	1,408.45	1,409.77
20%	1,465.85	1,468.25
15%	1,536.62	1,539.93
10%	1,631.17	1,635.69
5%	1,780.19	1,789.52
0%	2,594.41	2,600.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.25	20.25
Standard Deviation	2.33	2.33
Selected range is from -Infinity to 20.00		10.00 to 30.00



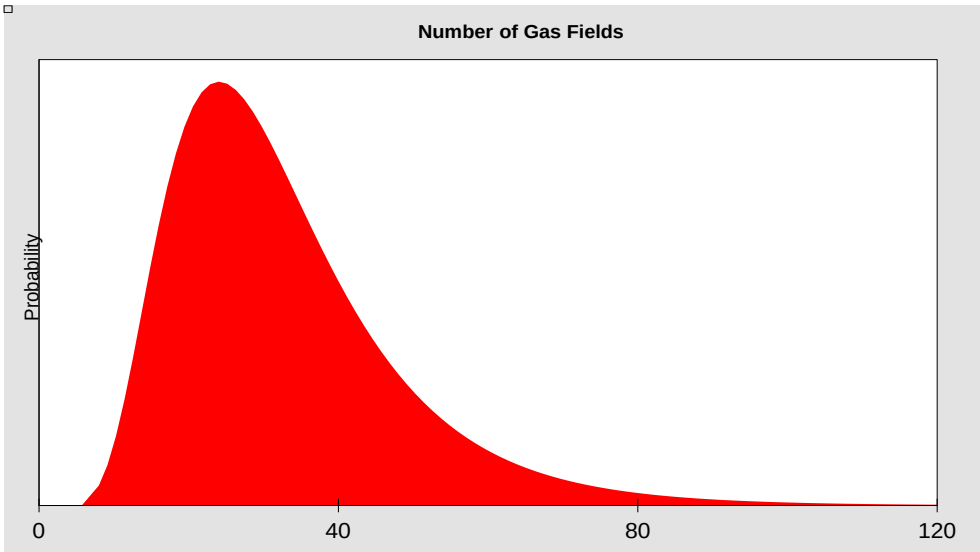
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.23	20.24
Median	20.00	20.00
Mode	---	---
Standard Deviation	2.31	2.30
Variance	5.32	5.31
Skewness	0.5945	0.6157
Kurtosis	3.43	3.47
Coefficient of Variability	0.1140	0.1138
Minimum	13.92	10.00
Maximum	30.00	30.00
Range Width	16.08	20.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.92	10.00
95%	16.88	16.91
90%	17.47	17.50
85%	17.90	17.92
80%	18.26	18.28
75%	18.59	18.59
70%	18.88	18.89
65%	19.17	19.17
60%	19.44	19.45
55%	19.72	19.72
50%	20.00	20.00
45%	20.28	20.28
40%	20.59	20.58
35%	20.90	20.90
30%	21.24	21.24
25%	21.62	21.63
20%	22.07	22.07
15%	22.60	22.61
10%	23.31	23.32
5%	24.41	24.43
0%	30.00	30.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	32.19	33.19
Standard Deviation	15.51	15.51
Selected range is from -Infinity to 119.00		1.00 to 120.00



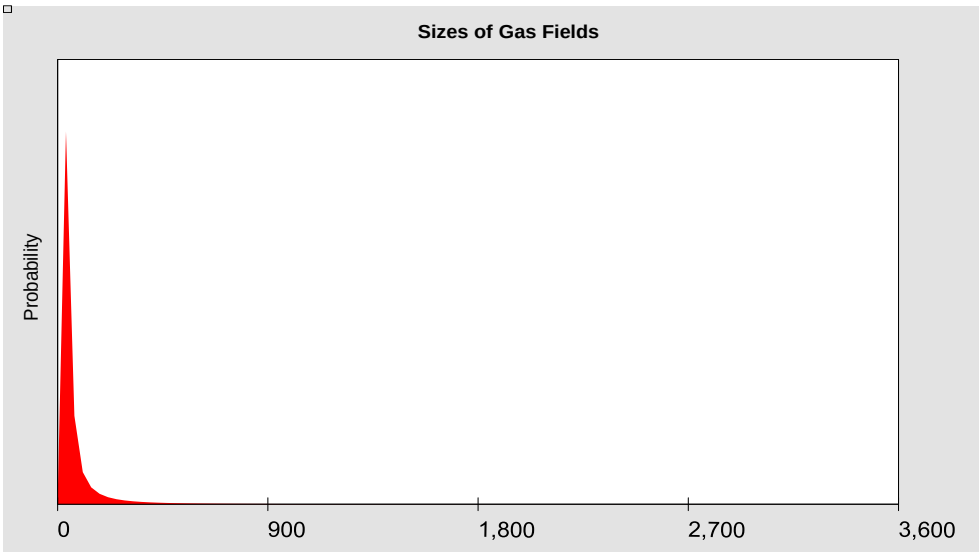
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	33.15	33.09
Median	30.07	29.98
Mode	---	---
Standard Deviation	15.19	15.15
Variance	230.86	229.67
Skewness	1.33	1.34
Kurtosis	5.59	5.63
Coefficient of Variability	0.4583	0.4580
Minimum	4.32	1.00
Maximum	119.67	120.00
Range Width	115.35	119.00
Mean Standard Error	0.07	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.32	1.00
95%	14.67	14.67
90%	17.14	17.14
85%	19.03	19.06
80%	20.73	20.74
75%	22.33	22.30
70%	23.82	23.81
65%	25.37	25.31
60%	26.92	26.82
55%	28.45	28.37
50%	30.07	29.98
45%	31.77	31.69
40%	33.68	33.54
35%	35.70	35.55
30%	37.91	37.82
25%	40.48	40.42
20%	43.54	43.54
15%	47.50	47.49
10%	52.97	52.96
5%	62.61	62.23
0%	119.67	120.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	78.22	84.22
Standard Deviation	330.76	330.76
Selected range is from -Infinity to 3,594.00		6.00 to 3,600.00



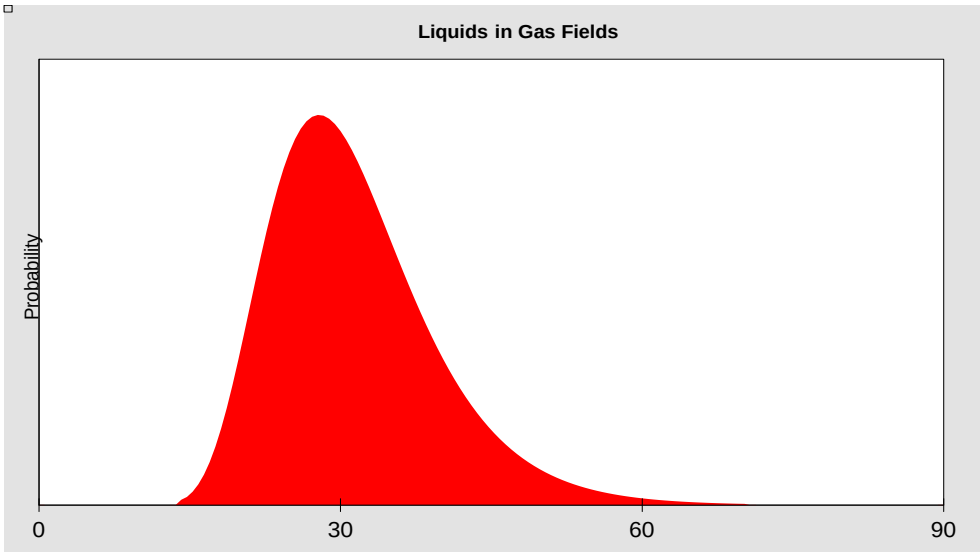
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	78.12	78.34
Median	23.78	23.96
Mode	---	---
Standard Deviation	196.38	193.09
Variance	38,563.78	37,284.64
Skewness	7.71	7.81
Kurtosis	85.63	88.44
Coefficient of Variability	2.51	2.46
Minimum	6.02	6.00
Maximum	3,573.03	3,600.00
Range Width	3,567.01	3,594.00
Mean Standard Error	0.88	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.02	6.00
95%	7.09	7.07
90%	8.03	8.00
85%	9.09	9.04
80%	10.26	10.25
75%	11.65	11.66
70%	13.33	13.32
65%	15.36	15.28
60%	17.62	17.64
55%	20.41	20.48
50%	23.78	23.96
45%	28.00	28.27
40%	33.45	33.72
35%	40.39	40.74
30%	49.63	50.07
25%	62.08	62.97
20%	80.83	81.80
15%	111.33	111.71
10%	166.14	166.51
5%	306.62	303.13
0%	3,573.03	3,600.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	26.22	31.22
Standard Deviation	8.31	8.31
Selected range is from -Infinity to 65.00		5.00 to 70.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.19	31.18
Median	30.02	29.99
Mode	---	---
Standard Deviation	8.19	8.19
Variance	67.12	67.03
Skewness	0.8592	0.8687
Kurtosis	4.03	4.05
Coefficient of Variability	0.2627	0.2626
Minimum	10.87	5.00
Maximum	69.89	70.00
Range Width	59.02	65.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.87	5.00
95%	20.00	20.03
90%	21.83	21.82
85%	23.14	23.14
80%	24.25	24.27
75%	25.27	25.29
70%	26.22	26.25
65%	27.16	27.19
60%	28.09	28.11
55%	29.06	29.04
50%	30.02	29.99
45%	31.01	30.98
40%	32.09	32.02
35%	33.25	33.15
30%	34.45	34.38
25%	35.83	35.78
20%	37.41	37.40
15%	39.38	39.41
10%	42.04	42.10
5%	46.42	46.46
0%	69.89	70.00

End of Assumptions

Simulation started on 11/17/2009 at 12:33:18
Simulation stopped on 11/17/2009 at 13:59:35