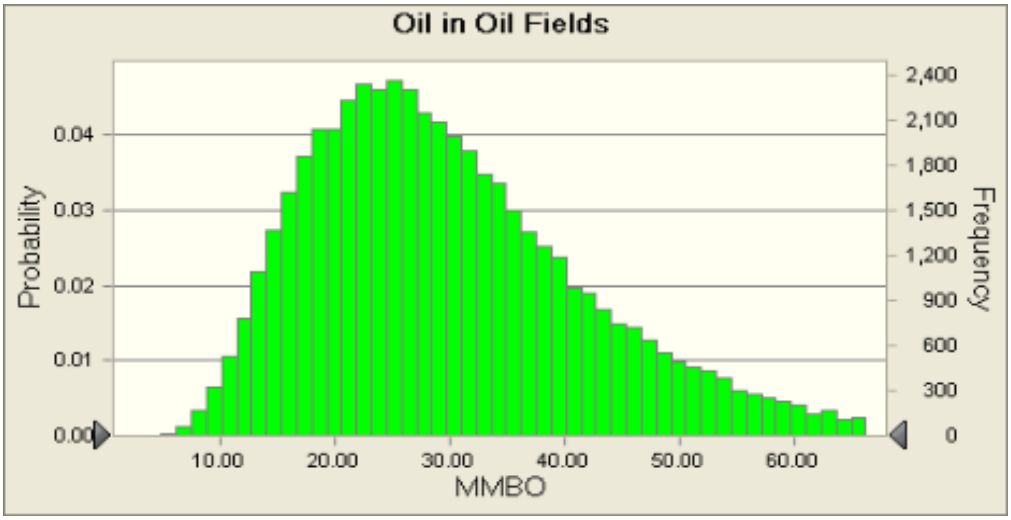
60550102
Neuquen Foothills Structures
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 2.27 to 126.26
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



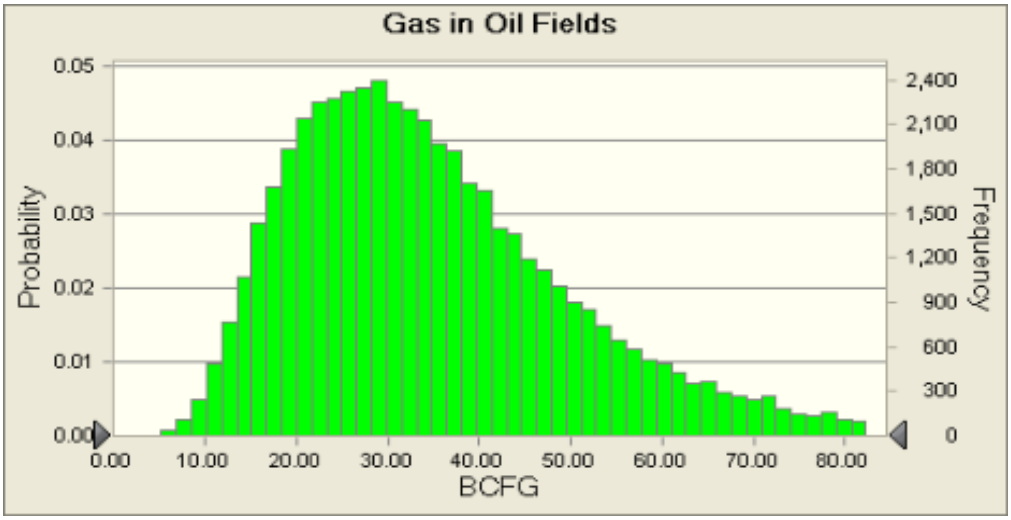
Statistics:	Forecast values
Trials	50,000
Mean	30.25
Median	28.01
Mode	---
Standard Deviation	12.87
Variance	165.57
Skewness	1.03
Kurtosis	4.51
Coefficient of Variability	0.4253
Minimum	2.27
Maximum	126.26
Range Width	124.00
Mean Standard Error	0.06

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	2.27
95%	13.53
90%	15.89
85%	17.73
80%	19.34
75%	20.92
70%	22.35
65%	23.78
60%	25.16
55%	26.56
50%	28.01
45%	29.59
40%	31.26
35%	32.98
30%	34.94
25%	37.20
20%	39.84
15%	43.18
10%	47.59
5%	54.64
0%	126.26

Forecast: Gas in Oil Fields

Summary:
Entire range is from 1.95 to 177.51
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.07



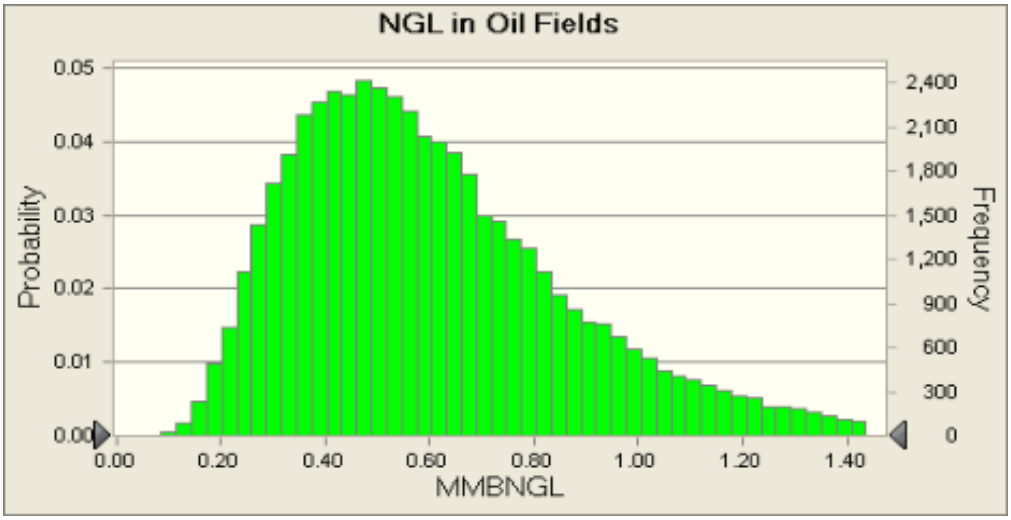
Statistics:	Forecast values
Trials	50,000
Mean	35.52
Median	32.39
Mode	---
Standard Deviation	16.71
Variance	279.39
Skewness	1.33
Kurtosis	6.11
Coefficient of Variability	0.4706
Minimum	1.95
Maximum	177.51
Range Width	175.56
Mean Standard Error	0.07

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	1.95
95%	14.83
90%	17.57
85%	19.80
80%	21.71
75%	23.52
70%	25.32
65%	27.05
60%	28.77
55%	30.55
50%	32.39
45%	34.31
40%	36.34
35%	38.51
30%	40.97
25%	43.85
20%	47.29
15%	51.46
10%	57.39
5%	67.19
0%	177.51

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.03 to 3.38
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



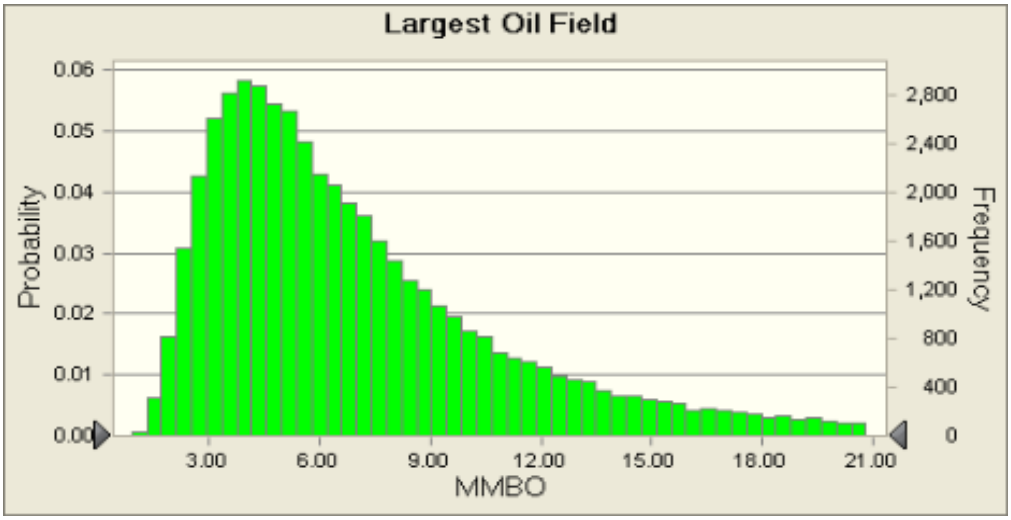
Statistics:	Forecast values
Trials	50,000
Mean	0.62
Median	0.56
Mode	---
Standard Deviation	0.29
Variance	0.09
Skewness	1.37
Kurtosis	6.38
Coefficient of Variability	0.4763
Minimum	0.03
Maximum	3.38
Range Width	3.35
Mean Standard Error	0.00

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.03
95%	0.25
90%	0.30
85%	0.34
80%	0.37
75%	0.41
70%	0.44
65%	0.47
60%	0.50
55%	0.53
50%	0.56
45%	0.59
40%	0.63
35%	0.67
30%	0.71
25%	0.76
20%	0.82
15%	0.89
10%	1.00
5%	1.17
0%	3.38

Forecast: Largest Oil Field

Summary:
Entire range is from 0.89 to 30.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



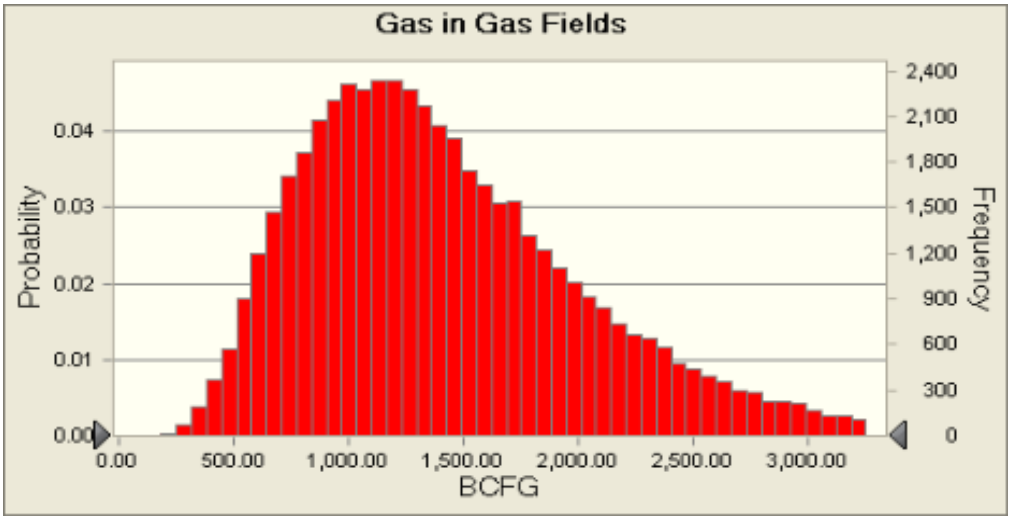
Statistics:	Forecast values
Trials	50,000
Mean	7.36
Median	5.98
Mode	---
Standard Deviation	4.80
Variance	23.06
Skewness	1.74
Kurtosis	6.54
Coefficient of Variability	0.6522
Minimum	0.89
Maximum	30.00
Range Width	29.11
Mean Standard Error	0.02

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	0.89
95%	2.47
90%	2.95
85%	3.34
80%	3.70
75%	4.04
70%	4.40
65%	4.77
60%	5.14
55%	5.55
50%	5.98
45%	6.47
40%	7.00
35%	7.57
30%	8.27
25%	9.10
20%	10.16
15%	11.60
10%	13.65
5%	17.42
0%	30.00

Forecast: Gas in Gas Fields

Summary:
Entire range is from 58.33 to 5,678.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.90



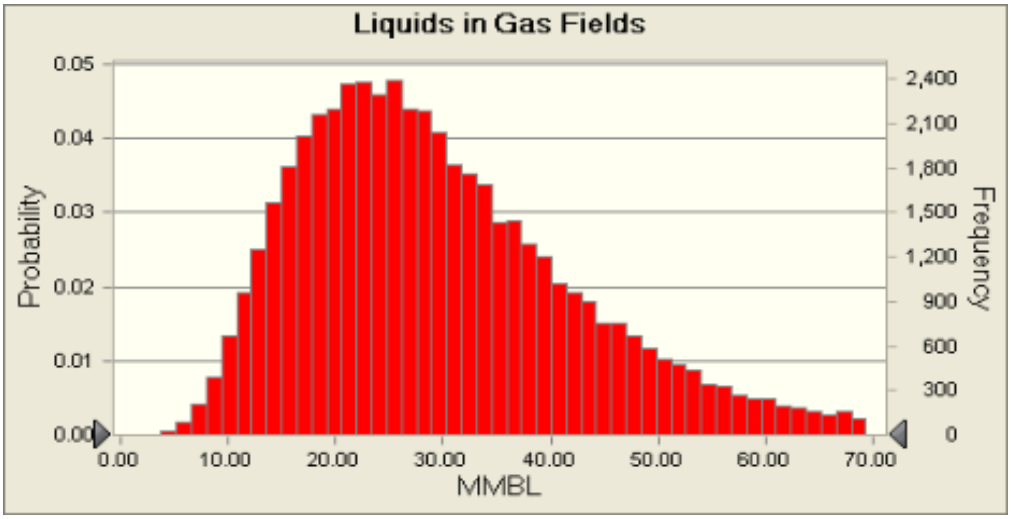
Statistics:	Forecast values
Trials	50,000
Mean	1,439.99
Median	1,323.55
Mode	---
Standard Deviation	648.49
Variance	420,534.87
Skewness	1.06
Kurtosis	4.61
Coefficient of Variability	0.4503
Minimum	58.33
Maximum	5,678.53
Range Width	5,620.21
Mean Standard Error	2.90

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	58.33
95%	603.63
90%	719.40
85%	812.62
80%	893.01
75%	968.62
70%	1,038.65
65%	1,110.55
60%	1,179.35
55%	1,251.17
50%	1,323.54
45%	1,399.72
40%	1,483.67
35%	1,575.44
30%	1,679.12
25%	1,789.94
20%	1,924.64
15%	2,090.89
10%	2,317.28
5%	2,672.59
0%	5,678.53

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.08 to 134.41
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



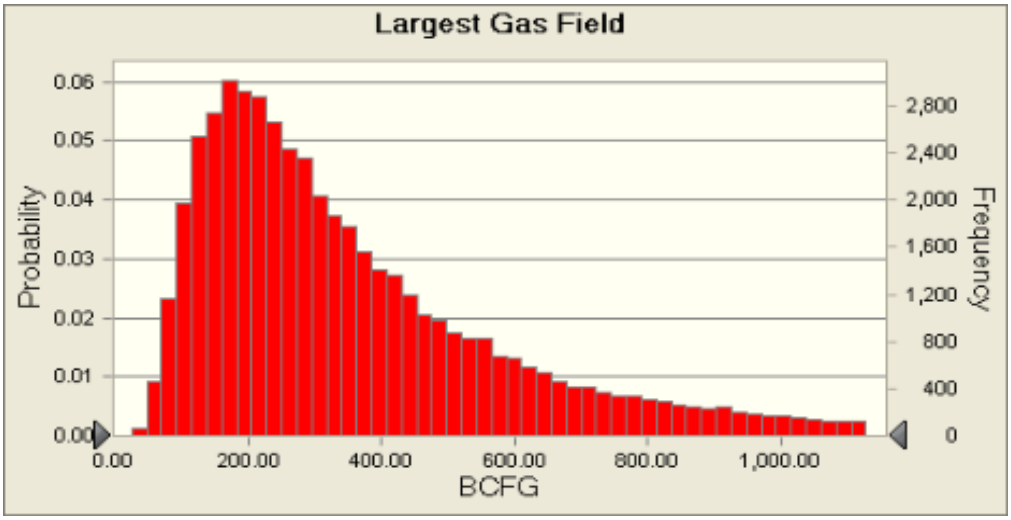
Statistics:	Forecast values
Trials	50,000
Mean	30.14
Median	27.56
Mode	---
Standard Deviation	13.98
Variance	195.43
Skewness	1.16
Kurtosis	5.07
Coefficient of Variability	0.4639
Minimum	1.08
Maximum	134.41
Range Width	133.33
Mean Standard Error	0.06

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.08
95%	12.38
90%	14.86
85%	16.78
80%	18.43
75%	20.02
70%	21.56
65%	23.01
60%	24.51
55%	25.98
50%	27.56
45%	29.15
40%	30.91
35%	32.88
30%	35.02
25%	37.48
20%	40.29
15%	43.97
10%	48.74
5%	56.62
0%	134.41

Forecast: Largest Gas Field

Summary:
Entire range is from 24.85 to 1,499.56
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.20



Statistics:	Forecast values
Trials	50,000
Mean	375.25
Median	293.39
Mode	---
Standard Deviation	268.72
Variance	72,211.87
Skewness	1.61
Kurtosis	5.64
Coefficient of Variability	0.7161
Minimum	24.85
Maximum	1,499.56
Range Width	1,474.72
Mean Standard Error	1.20

Forecast: Largest Gas Field (continued)

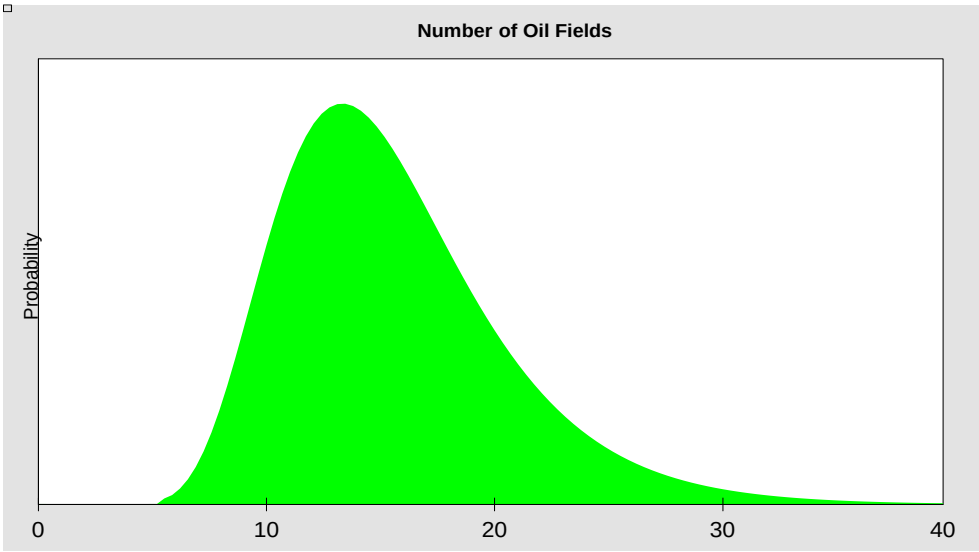
Percentiles:	BCFG
100%	24.85
95%	102.51
90%	127.13
85%	148.77
80%	167.84
75%	186.69
70%	205.96
65%	225.61
60%	246.54
55%	269.24
50%	293.39
45%	320.88
40%	351.36
35%	386.36
30%	427.17
25%	477.54
20%	540.21
15%	619.98
10%	744.97
5%	954.51
0%	1,499.56

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	14.79	15.79
Standard Deviation	5.04	5.04
Selected range is from -Infinity to 39.00		1.00 to 40.00



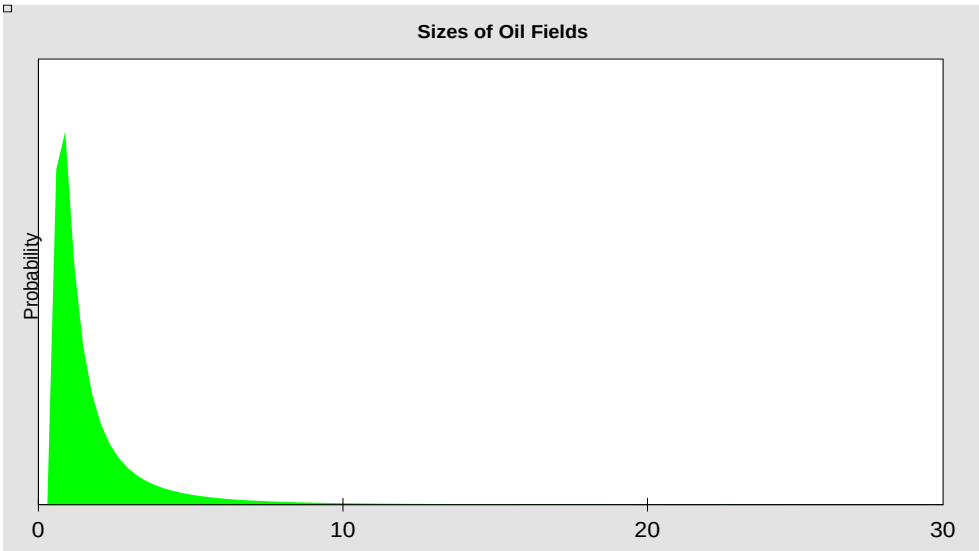
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.80	15.76
Median	15.05	14.99
Mode	---	---
Standard Deviation	4.96	4.96
Variance	24.65	24.64
Skewness	0.9045	0.9368
Kurtosis	4.08	4.24
Coefficient of Variability	0.3142	0.3149
Minimum	4.92	1.00
Maximum	39.95	40.00
Range Width	35.03	39.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.92	1.00
95%	9.13	9.11
90%	10.16	10.15
85%	10.93	10.93
80%	11.60	11.59
75%	12.21	12.19
70%	12.77	12.76
65%	13.34	13.32
60%	13.90	13.87
55%	14.46	14.42
50%	15.05	14.99
45%	15.65	15.59
40%	16.28	16.22
35%	16.95	16.90
30%	17.72	17.65
25%	18.59	18.49
20%	19.57	19.49
15%	20.80	20.72
10%	22.44	22.38
5%	25.17	25.08
0%	39.95	40.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1.46	1.96
Standard Deviation	2.66	2.66
Selected range is from -Infinity to 29.50		0.50 to 30.00



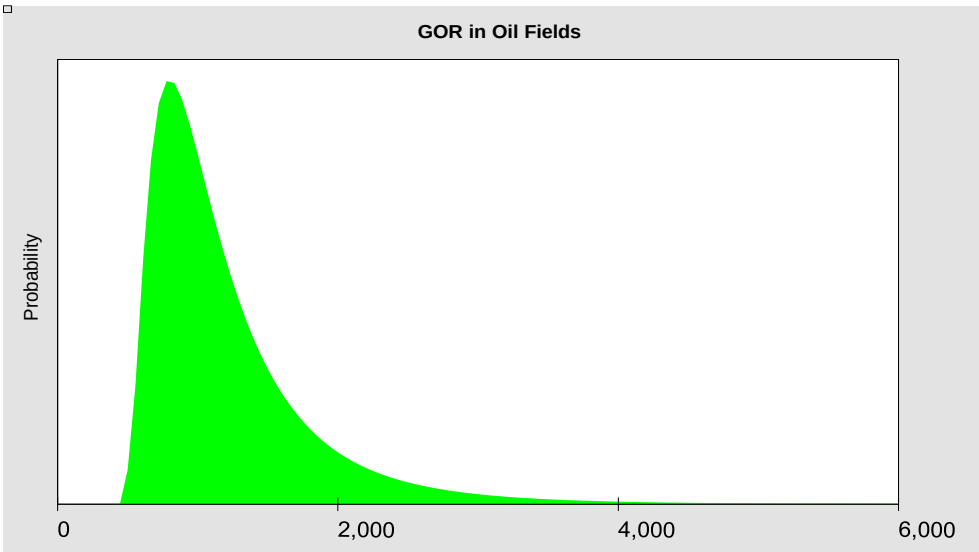
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1.93	1.91
Median	1.21	1.20
Mode	---	---
Standard Deviation	2.21	2.21
Variance	4.90	4.88
Skewness	4.59	4.66
Kurtosis	34.42	35.09
Coefficient of Variability	1.15	1.15
Minimum	0.50	0.50
Maximum	29.93	30.00
Range Width	29.43	29.50
Mean Standard Error	0.01	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.50	0.50
95%	0.60	0.60
90%	0.65	0.65
85%	0.70	0.70
80%	0.75	0.75
75%	0.81	0.81
70%	0.88	0.87
65%	0.95	0.94
60%	1.02	1.01
55%	1.11	1.10
50%	1.21	1.20
45%	1.33	1.31
40%	1.46	1.45
35%	1.63	1.61
30%	1.83	1.82
25%	2.09	2.08
20%	2.45	2.43
15%	2.95	2.94
10%	3.83	3.78
5%	5.67	5.57
0%	29.93	30.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	779.13	1,179.13
Standard Deviation	645.43	645.43
Selected range is from -Infinity to 5,600.00		400.00 to 6,000.00



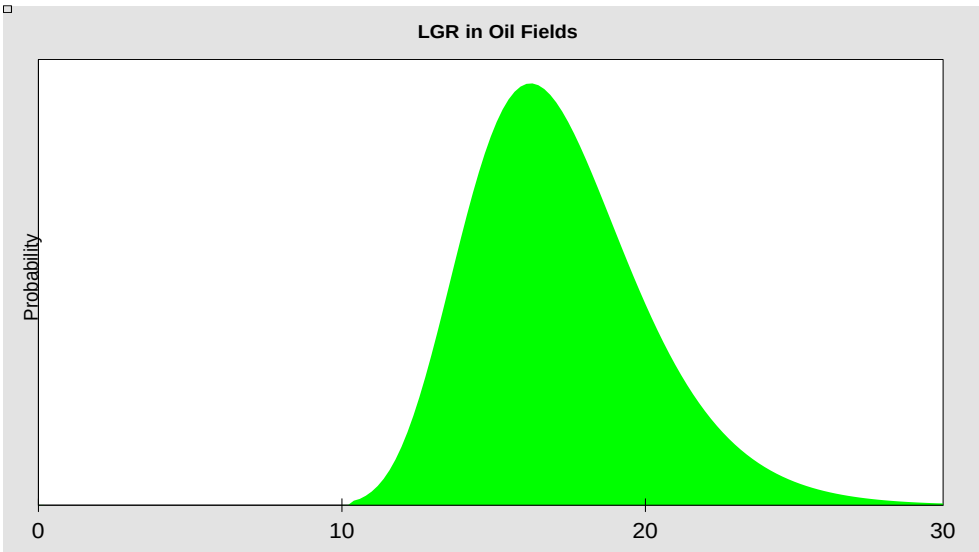
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,172.72	1,172.92
Median	996.78	999.46
Mode	---	---
Standard Deviation	613.14	613.18
Variance	375,938.04	375,992.53
Skewness	2.30	2.31
Kurtosis	10.91	11.03
Coefficient of Variability	0.5228	0.5228
Minimum	434.29	400.00
Maximum	5,985.30	6,000.00
Range Width	5,551.02	5,600.00
Mean Standard Error	2.74	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	434.29	400.00
95%	583.19	582.66
90%	639.06	637.50
85%	683.75	683.52
80%	725.30	726.38
75%	768.22	768.27
70%	810.53	810.45
65%	853.74	853.83
60%	898.14	899.22
55%	946.88	947.45
50%	996.77	999.46
45%	1,055.34	1,056.39
40%	1,118.40	1,119.77
35%	1,190.27	1,191.70
30%	1,273.98	1,275.27
25%	1,376.57	1,375.33
20%	1,501.61	1,500.18
15%	1,664.79	1,665.82
10%	1,905.59	1,909.59
5%	2,357.22	2,357.24
0%	5,985.30	6,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	12.34	17.34
Standard Deviation	2.97	2.97
Selected range is from -Infinity to 25.00		5.00 to 30.00



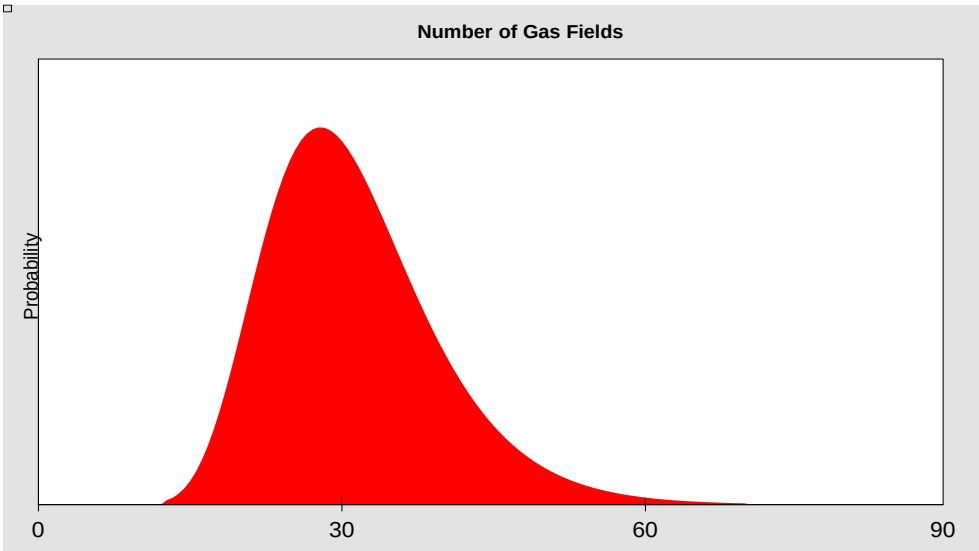
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.32	17.33
Median	16.99	17.00
Mode	---	---
Standard Deviation	2.94	2.94
Variance	8.66	8.64
Skewness	0.6680	0.6545
Kurtosis	3.57	3.55
Coefficient of Variability	0.1699	0.1696
Minimum	9.61	5.00
Maximum	30.00	30.00
Range Width	20.39	25.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.61	5.00
95%	13.11	13.12
90%	13.85	13.85
85%	14.36	14.38
80%	14.80	14.82
75%	15.20	15.22
70%	15.57	15.59
65%	15.93	15.95
60%	16.29	16.30
55%	16.63	16.64
50%	16.99	17.00
45%	17.34	17.36
40%	17.73	17.74
35%	18.13	18.14
30%	18.57	18.59
25%	19.06	19.08
20%	19.63	19.65
15%	20.34	20.34
10%	21.24	21.25
5%	22.72	22.70
0%	30.00	30.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	30.16	31.16
Standard Deviation	8.63	8.63
Selected range is from -Infinity to 69.00		1.00 to 70.00



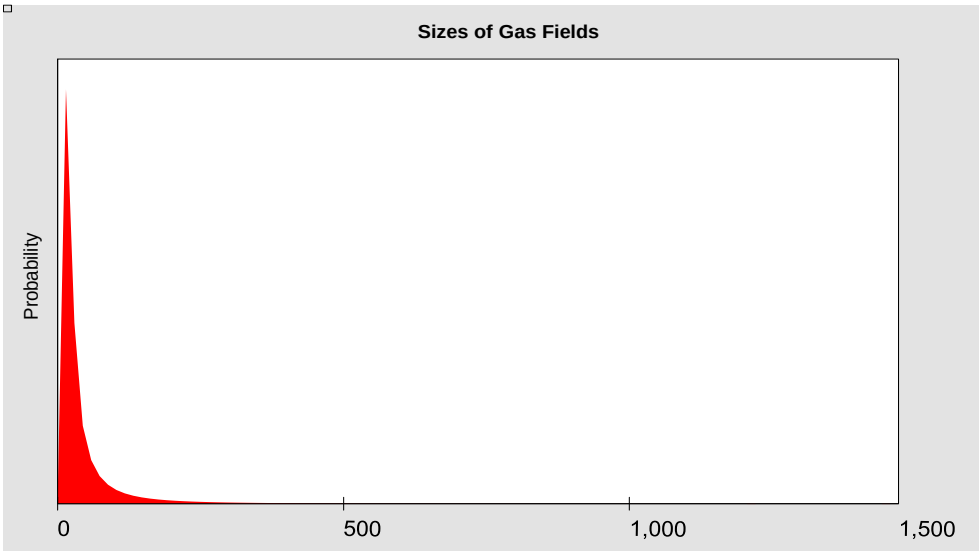
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.24	31.12
Median	30.09	29.99
Mode	---	---
Standard Deviation	8.60	8.52
Variance	73.89	72.54
Skewness	0.8087	0.7822
Kurtosis	3.90	3.83
Coefficient of Variability	0.2751	0.2737
Minimum	10.00	1.00
Maximum	69.89	70.00
Range Width	59.89	69.00
Mean Standard Error	0.04	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.00	1.00
95%	19.31	19.28
90%	21.33	21.24
85%	22.76	22.68
80%	24.00	23.90
75%	25.10	25.00
70%	26.13	26.03
65%	27.14	27.02
60%	28.11	28.00
55%	29.07	28.99
50%	30.09	29.99
45%	31.13	31.03
40%	32.21	32.12
35%	33.35	33.29
30%	34.65	34.58
25%	36.11	36.02
20%	37.81	37.69
15%	39.87	39.75
10%	42.68	42.49
5%	47.18	46.89
0%	69.89	70.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	45.50	48.5
Standard Deviation	130.28	130.28
Selected range is from -Infinity to 1,497.00		3.00 to 1,500.00



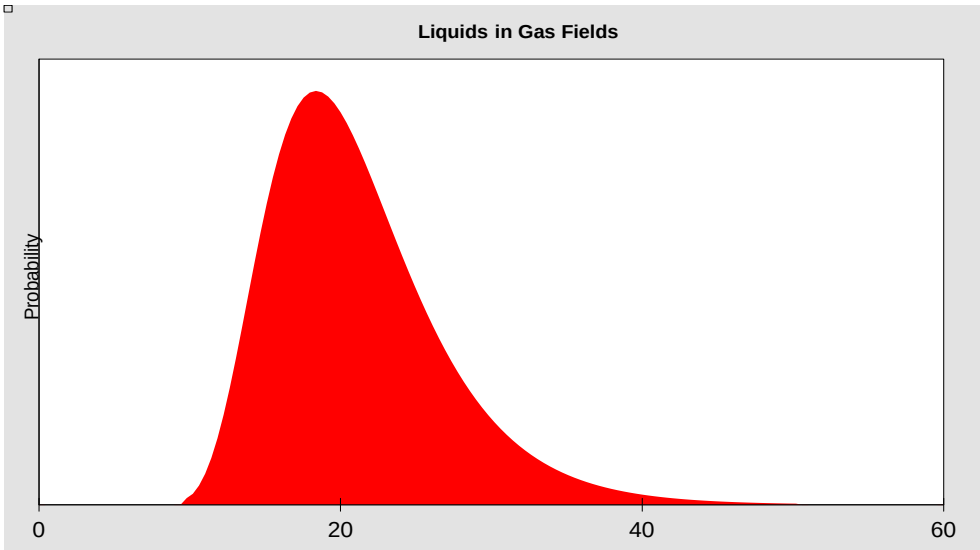
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	46.15	46.12
Median	18.01	17.97
Mode	---	---
Standard Deviation	92.31	92.27
Variance	8,520.28	8,513.52
Skewness	6.29	6.34
Kurtosis	59.44	60.66
Coefficient of Variability	2.00	2.00
Minimum	3.01	3.00
Maximum	1,495.72	1,500.00
Range Width	1,492.71	1,497.00
Mean Standard Error	0.41	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.01	3.00
95%	4.30	4.29
90%	5.20	5.22
85%	6.19	6.20
80%	7.27	7.28
75%	8.45	8.49
70%	9.81	9.86
65%	11.41	11.44
60%	13.23	13.27
55%	15.41	15.42
50%	18.01	17.97
45%	21.21	21.05
40%	25.02	24.83
35%	29.95	29.56
30%	36.03	35.66
25%	44.21	43.83
20%	55.76	55.33
15%	72.74	72.87
10%	103.42	103.44
5%	175.09	174.53
0%	1,495.72	1,500.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	15.98	20.98
Standard Deviation	5.87	5.87
Selected range is from -Infinity to 45.00		5.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.92	20.94
Median	19.98	19.99
Mode	---	---
Standard Deviation	5.72	5.77
Variance	32.73	33.26
Skewness	0.9999	1.01
Kurtosis	4.42	4.46
Coefficient of Variability	0.2735	0.2754
Minimum	8.39	5.00
Maximum	49.93	50.00
Range Width	41.54	45.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.39	5.00
95%	13.37	13.36
90%	14.52	14.51
85%	15.37	15.37
80%	16.12	16.12
75%	16.80	16.80
70%	17.46	17.44
65%	18.08	18.08
60%	18.70	18.70
55%	19.32	19.34
50%	19.98	19.99
45%	20.67	20.68
40%	21.39	21.40
35%	22.16	22.19
30%	23.01	23.06
25%	23.99	24.05
20%	25.15	25.21
15%	26.58	26.66
10%	28.55	28.61
5%	31.69	31.83
0%	49.93	50.00

End of Assumptions

Simulation started on 10/20/2008 at 16:24:10
Simulation stopped on 10/20/2008 at 16:38:32