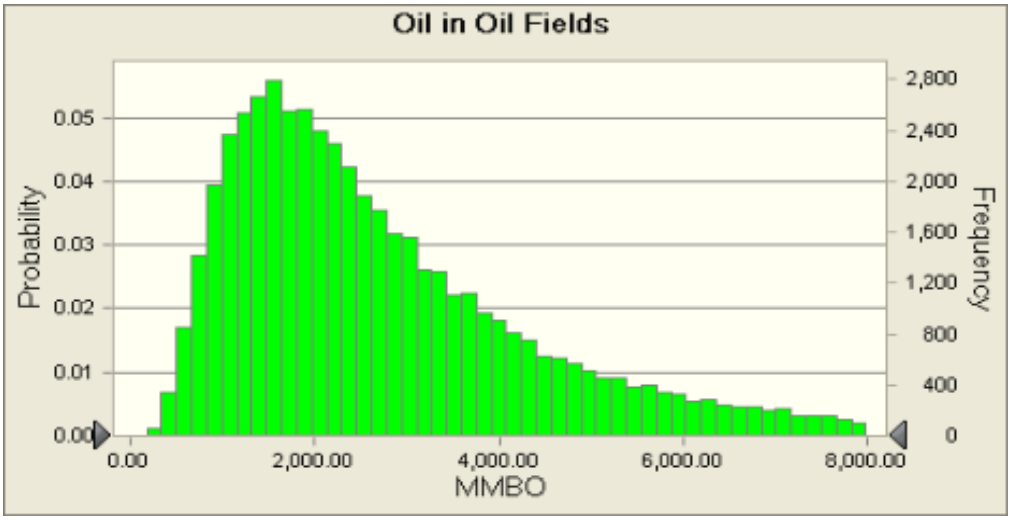
60360101
Santos Shelf
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 11.97 to 19,322.25
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.27



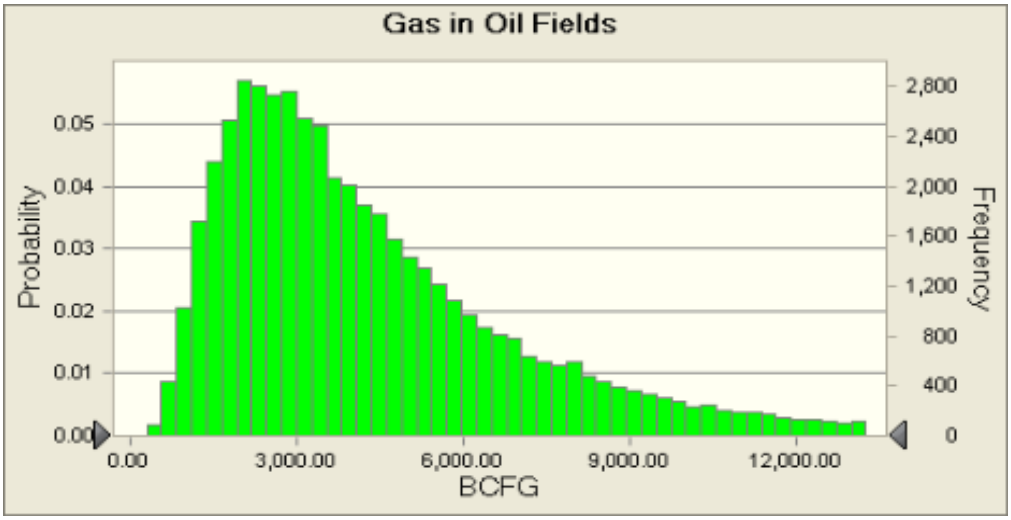
Statistics:	Forecast values
Trials	50,000
Mean	2,808.07
Median	2,307.76
Mode	---
Standard Deviation	1,849.64
Variance	3,421,175.38
Skewness	1.60
Kurtosis	6.53
Coefficient of Variability	0.6587
Minimum	11.97
Maximum	19,322.25
Range Width	19,310.27
Mean Standard Error	8.27

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	11.97
95%	810.39
90%	1,014.74
85%	1,183.51
80%	1,344.46
75%	1,496.08
70%	1,640.94
65%	1,800.87
60%	1,959.31
55%	2,128.44
50%	2,307.74
45%	2,502.06
40%	2,726.79
35%	2,982.08
30%	3,267.16
25%	3,607.82
20%	4,008.15
15%	4,550.64
10%	5,317.76
5%	6,573.12
0%	19,322.25

Forecast: Gas in Oil Fields

Summary:
Entire range is from 12.93 to 33,959.67
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 13.98



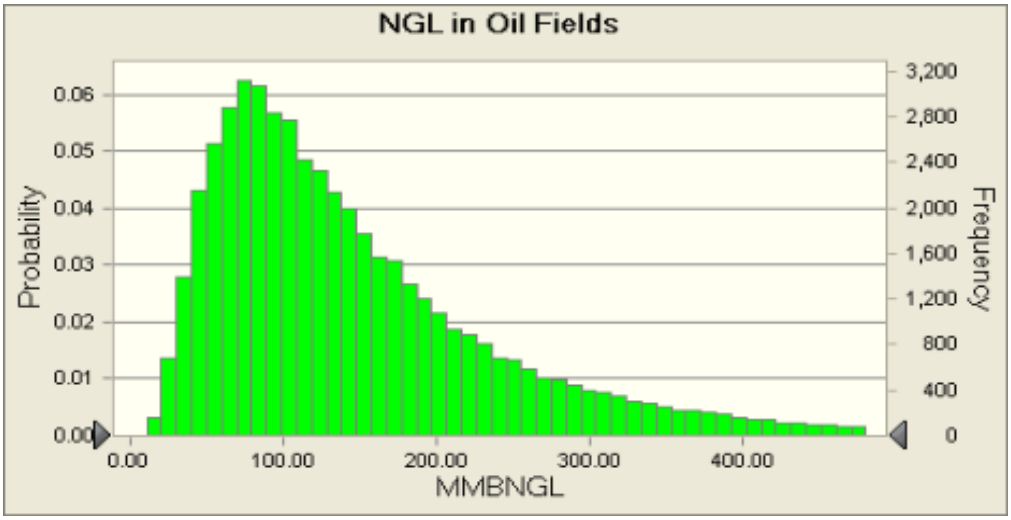
Statistics:	Forecast values
Trials	50,000
Mean	4,494.85
Median	3,630.52
Mode	---
Standard Deviation	3,125.99
Variance	9,771,839.50
Skewness	1.87
Kurtosis	8.21
Coefficient of Variability	0.6955
Minimum	12.93
Maximum	33,959.67
Range Width	33,946.73
Mean Standard Error	13.98

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	12.93
95%	1,254.30
90%	1,581.64
85%	1,853.43
80%	2,095.73
75%	2,333.73
70%	2,573.87
65%	2,821.33
60%	3,077.74
55%	3,341.08
50%	3,630.51
45%	3,958.12
40%	4,321.94
35%	4,710.02
30%	5,168.44
25%	5,698.85
20%	6,382.69
15%	7,268.12
10%	8,510.05
5%	10,695.19
0%	33,959.67

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.44 to 1,910.89
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.52



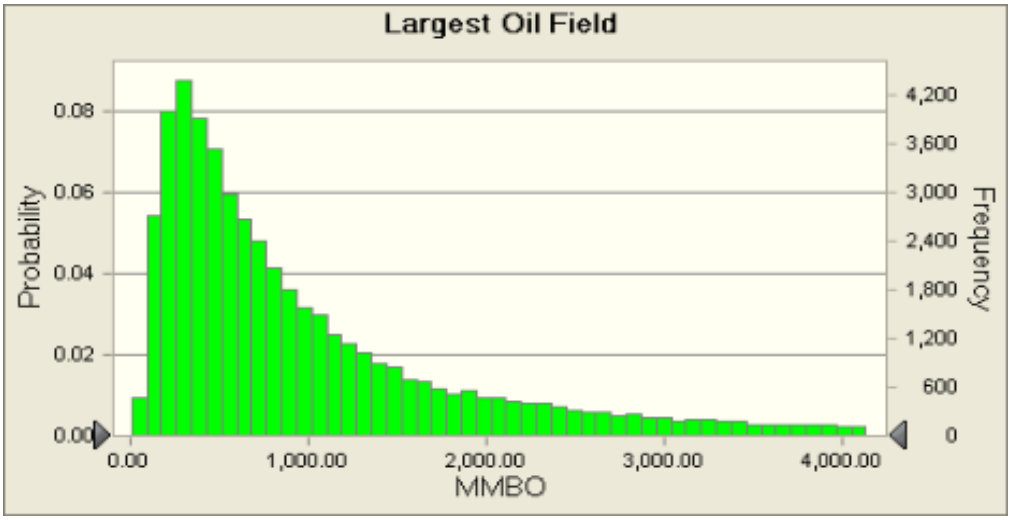
Statistics:	Forecast values
Trials	50,000
Mean	153.72
Median	121.84
Mode	---
Standard Deviation	116.50
Variance	13,572.12
Skewness	2.53
Kurtosis	14.86
Coefficient of Variability	0.7579
Minimum	0.44
Maximum	1,910.89
Range Width	1,910.45
Mean Standard Error	0.52

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.44
95%	41.03
90%	51.79
85%	61.07
80%	69.46
75%	77.34
70%	85.26
65%	93.68
60%	102.29
55%	111.42
50%	121.84
45%	132.52
40%	144.63
35%	158.36
30%	173.93
25%	192.71
20%	216.17
15%	247.33
10%	293.54
5%	374.95
0%	1,910.89

Forecast: Largest Oil Field

Summary:
Entire range is from 6.29 to 5,998.76
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.87



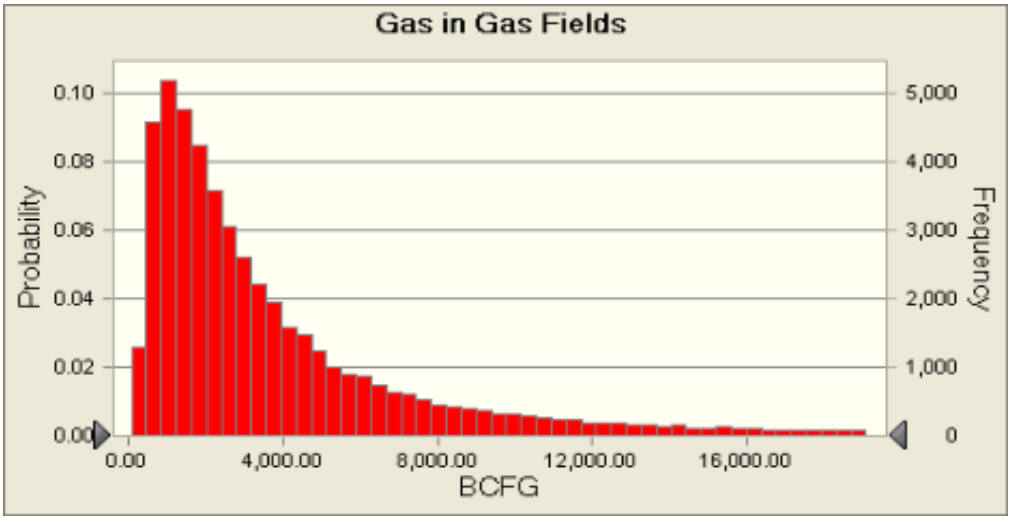
Statistics:	Forecast values
Trials	50,000
Mean	1,082.78
Median	691.16
Mode	---
Standard Deviation	1,088.82
Variance	1,185,537.05
Skewness	2.00
Kurtosis	7.08
Coefficient of Variability	1.01
Minimum	6.29
Maximum	5,998.76
Range Width	5,992.47
Mean Standard Error	4.87

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	6.29
95%	158.96
90%	214.36
85%	265.01
80%	312.23
75%	363.06
70%	417.29
65%	474.34
60%	539.41
55%	609.92
50%	691.15
45%	780.33
40%	888.95
35%	1,015.66
30%	1,167.01
25%	1,359.49
20%	1,625.49
15%	2,001.76
10%	2,541.10
5%	3,531.84
0%	5,998.76

Forecast: Gas in Gas Fields

Summary:
Entire range is from 68.14 to 66,469.41
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 23.60



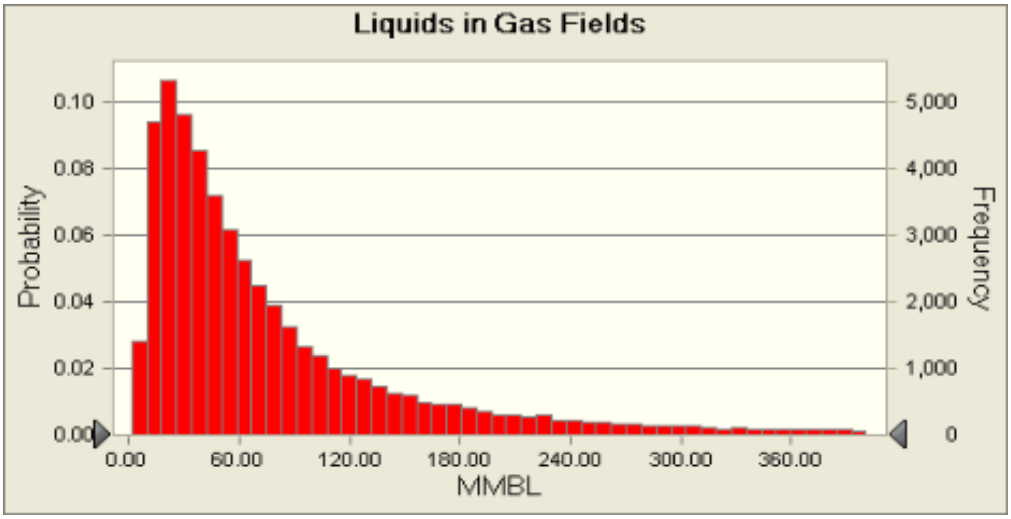
Statistics:	Forecast values
Trials	50,000
Mean	4,332.85
Median	2,559.15
Mode	---
Standard Deviation	5,276.10
Variance	27,837,206.66
Skewness	3.24
Kurtosis	17.16
Coefficient of Variability	1.22
Minimum	68.14
Maximum	66,469.41
Range Width	66,401.28
Mean Standard Error	23.60

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	68.14
95%	574.62
90%	777.54
85%	972.36
80%	1,153.64
75%	1,345.23
70%	1,549.65
65%	1,774.62
60%	2,004.32
55%	2,270.58
50%	2,559.15
45%	2,901.54
40%	3,285.26
35%	3,742.99
30%	4,315.32
25%	5,027.72
20%	6,021.15
15%	7,436.35
10%	9,763.09
5%	14,396.19
0%	66,469.41

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.35 to 1,595.70
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.50



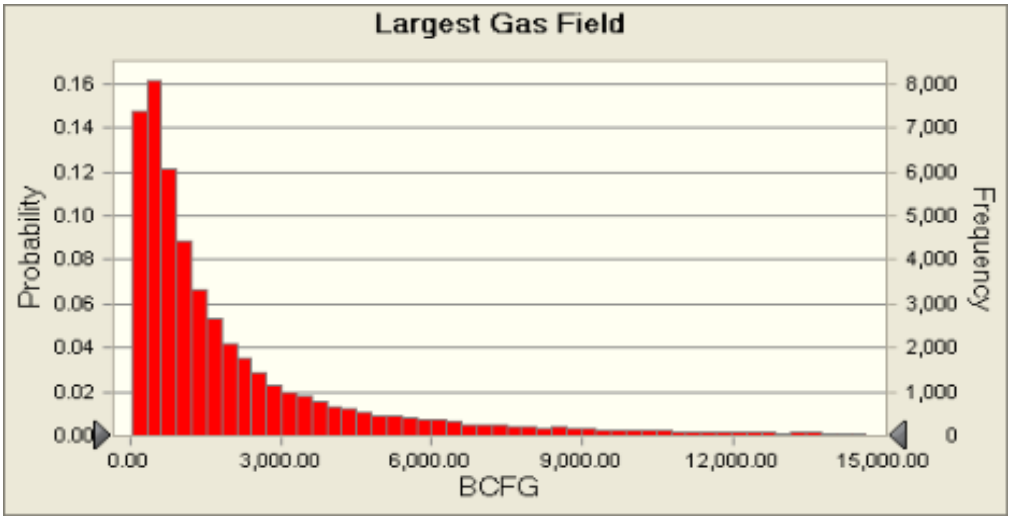
Statistics:	Forecast values
Trials	50,000
Mean	89.45
Median	52.59
Mode	---
Standard Deviation	111.13
Variance	12,350.10
Skewness	3.45
Kurtosis	19.67
Coefficient of Variability	1.24
Minimum	1.35
Maximum	1,595.70
Range Width	1,594.35
Mean Standard Error	0.50

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.35
95%	11.71
90%	15.93
85%	19.80
80%	23.55
75%	27.57
70%	31.83
65%	36.32
60%	41.07
55%	46.44
50%	52.59
45%	59.52
40%	67.45
35%	76.80
30%	88.42
25%	103.45
20%	124.23
15%	153.45
10%	200.19
5%	296.66
0%	1,595.70

Forecast: Largest Gas Field

Summary:
Entire range is from 33.04 to 35,986.34
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 19.15



Statistics:	Forecast values
Trials	50,000
Mean	2,659.68
Median	1,156.02
Mode	---
Standard Deviation	4,281.60
Variance	18,332,076.24
Skewness	3.71
Kurtosis	20.06
Coefficient of Variability	1.61
Minimum	33.04
Maximum	35,986.34
Range Width	35,953.30
Mean Standard Error	19.15

Forecast: Largest Gas Field (continued)

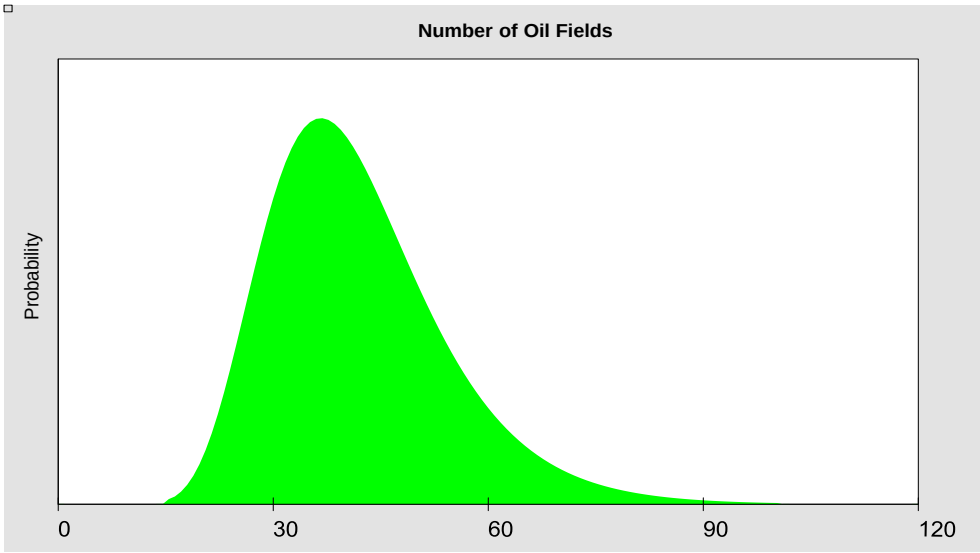
Percentiles:	BCFG
100%	33.04
95%	173.87
90%	256.01
85%	334.67
80%	418.68
75%	510.79
70%	609.81
65%	717.53
60%	843.30
55%	982.89
50%	1,155.89
45%	1,358.25
40%	1,594.69
35%	1,894.12
30%	2,274.32
25%	2,767.54
20%	3,518.79
15%	4,613.77
10%	6,426.22
5%	10,541.10
0%	35,986.34

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	40.81	41.81
Standard Deviation	12.59	12.59
Selected range is from -Infinity to 99.00		1.00 to 100.00



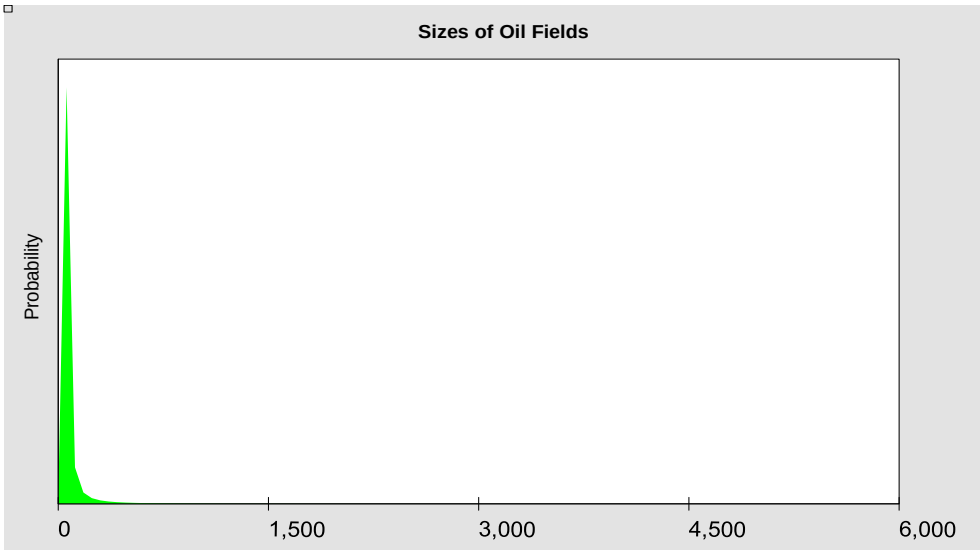
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	41.67	41.75
Median	39.89	39.99
Mode	---	---
Standard Deviation	12.36	12.41
Variance	152.87	154.05
Skewness	0.8318	0.8452
Kurtosis	3.91	3.99
Coefficient of Variability	0.2967	0.2973
Minimum	11.13	1.00
Maximum	99.17	100.00
Range Width	88.04	99.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.13	1.00
95%	24.70	24.75
90%	27.47	27.50
85%	29.48	29.53
80%	31.15	31.25
75%	32.70	32.82
70%	34.20	34.29
65%	35.64	35.71
60%	37.03	37.12
55%	38.40	38.54
50%	39.89	39.99
45%	41.47	41.49
40%	43.04	43.08
35%	44.72	44.78
30%	46.55	46.65
25%	48.66	48.76
20%	51.15	51.22
15%	54.15	54.25
10%	58.27	58.30
5%	64.79	64.86
0%	99.17	100.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	76.23	81.23
Standard Deviation	826.74	826.74
Selected range is from -Infinity to 5,995.00		5.00 to 6,000.00



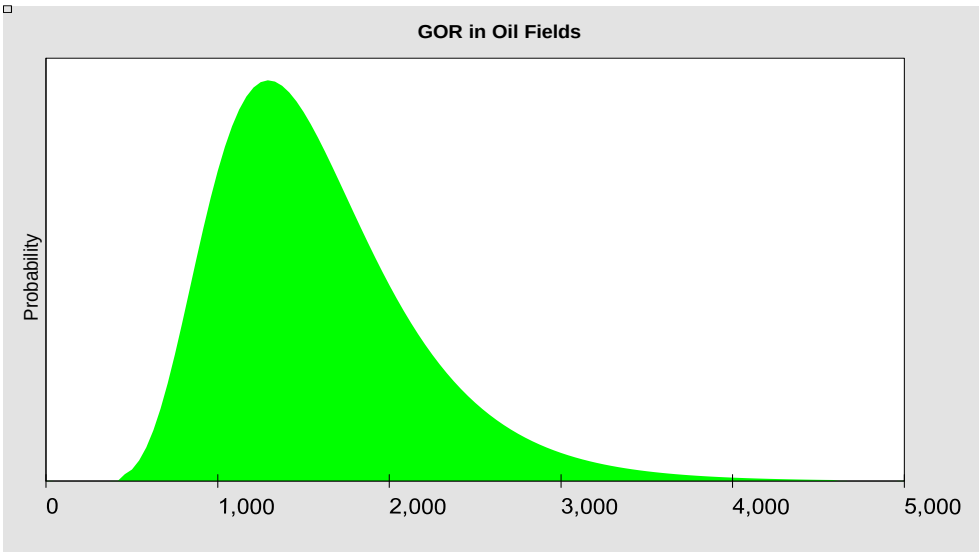
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	66.42	71.09
Median	12.01	11.98
Mode	---	---
Standard Deviation	250.76	254.53
Variance	62,878.84	64,784.01
Skewness	11.10	11.04
Kurtosis	168.22	166.22
Coefficient of Variability	3.78	3.58
Minimum	5.00	5.00
Maximum	5,889.62	6,000.00
Range Width	5,884.62	5,995.00
Mean Standard Error	1.12	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.00	5.00
95%	5.19	5.19
90%	5.42	5.42
85%	5.73	5.73
80%	6.12	6.11
75%	6.60	6.60
70%	7.21	7.22
65%	8.00	8.01
60%	9.01	9.01
55%	10.29	10.31
50%	12.01	11.98
45%	14.24	14.18
40%	17.25	17.14
35%	21.33	21.19
30%	27.32	26.92
25%	35.63	35.41
20%	49.24	48.77
15%	71.56	71.88
10%	117.64	118.91
5%	249.92	254.76
0%	5,889.62	6,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,552.78	1,602.78
Standard Deviation	594.91	594.91
Selected range is from -Infinity to 4,550.00		50.00 to 4,600.00



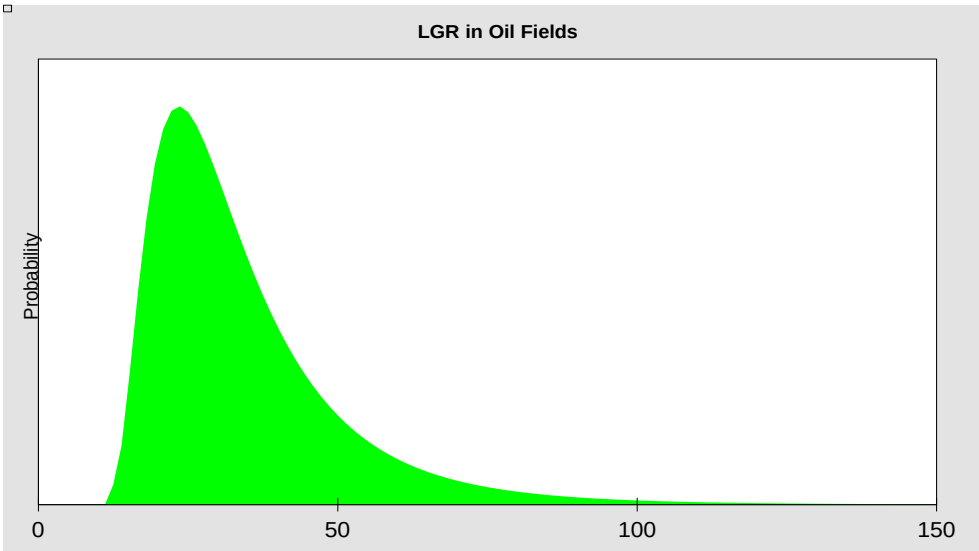
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,593.82	1,599.26
Median	1,495.12	1,499.33
Mode	---	---
Standard Deviation	583.68	584.50
Variance	340,683.13	341,636.31
Skewness	1.04	1.06
Kurtosis	4.48	4.60
Coefficient of Variability	0.3662	0.3655
Minimum	366.33	50.00
Maximum	4,596.84	4,600.00
Range Width	4,230.51	4,550.00
Mean Standard Error	2.61	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	366.33	50.00
95%	833.16	838.71
90%	947.16	952.19
85%	1,032.84	1,037.83
80%	1,108.38	1,111.65
75%	1,174.37	1,179.36
70%	1,238.36	1,243.84
65%	1,300.27	1,306.85
60%	1,363.14	1,369.72
55%	1,426.30	1,433.53
50%	1,495.11	1,499.33
45%	1,562.04	1,568.24
40%	1,633.77	1,641.61
35%	1,715.50	1,721.16
30%	1,802.57	1,809.26
25%	1,902.92	1,909.50
20%	2,024.08	2,027.79
15%	2,172.11	2,175.03
10%	2,369.40	2,375.54
5%	2,706.27	2,706.25
0%	4,596.84	4,600.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	24.39	34.39
Standard Deviation	17.01	17.01
Selected range is from -Infinity to 140.00		10.00 to 150.00



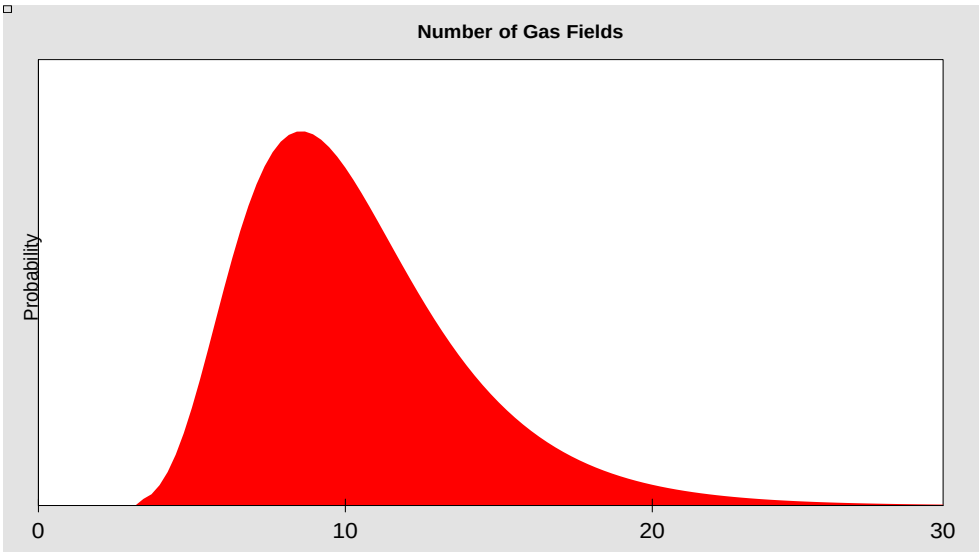
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	34.12	34.24
Median	29.92	29.98
Mode	---	---
Standard Deviation	16.28	16.36
Variance	264.94	267.69
Skewness	1.97	1.94
Kurtosis	8.94	8.69
Coefficient of Variability	0.4771	0.4778
Minimum	11.85	10.00
Maximum	150.00	150.00
Range Width	138.15	140.00
Mean Standard Error	0.07	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.85	10.00
95%	17.08	17.10
90%	18.91	18.92
85%	20.39	20.41
80%	21.76	21.77
75%	23.05	23.07
70%	24.35	24.37
65%	25.66	25.68
60%	26.96	27.04
55%	28.37	28.47
50%	29.92	29.98
45%	31.53	31.63
40%	33.38	33.44
35%	35.40	35.46
30%	37.65	37.79
25%	40.36	40.54
20%	43.59	43.92
15%	47.93	48.33
10%	54.32	54.68
5%	65.45	66.03
0%	150.00	150.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	9.67	10.67
Standard Deviation	3.80	3.8
Selected range is from -Infinity to 29.00		1.00 to 30.00



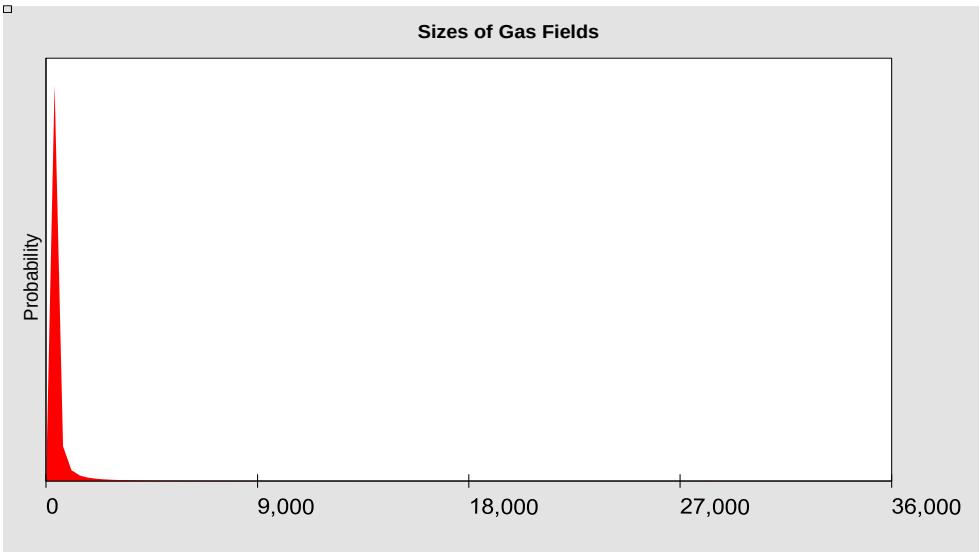
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.63	10.65
Median	9.98	10.00
Mode	---	---
Standard Deviation	3.72	3.73
Variance	13.82	13.90
Skewness	1.08	1.08
Kurtosis	4.72	4.69
Coefficient of Variability	0.3499	0.3502
Minimum	2.73	1.00
Maximum	29.88	30.00
Range Width	27.15	29.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.73	1.00
95%	5.80	5.83
90%	6.53	6.54
85%	7.07	7.08
80%	7.53	7.54
75%	7.95	7.97
70%	8.37	8.38
65%	8.77	8.78
60%	9.17	9.17
55%	9.57	9.58
50%	9.98	10.00
45%	10.42	10.43
40%	10.88	10.90
35%	11.39	11.41
30%	11.93	11.97
25%	12.59	12.61
20%	13.36	13.36
15%	14.29	14.31
10%	15.52	15.59
5%	17.69	17.72
0%	29.88	30.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	457.41	487.41
Standard Deviation	4,960.42	4,960.42
Selected range is from -Infinity to 35,970.00		30.00 to 36,000.00



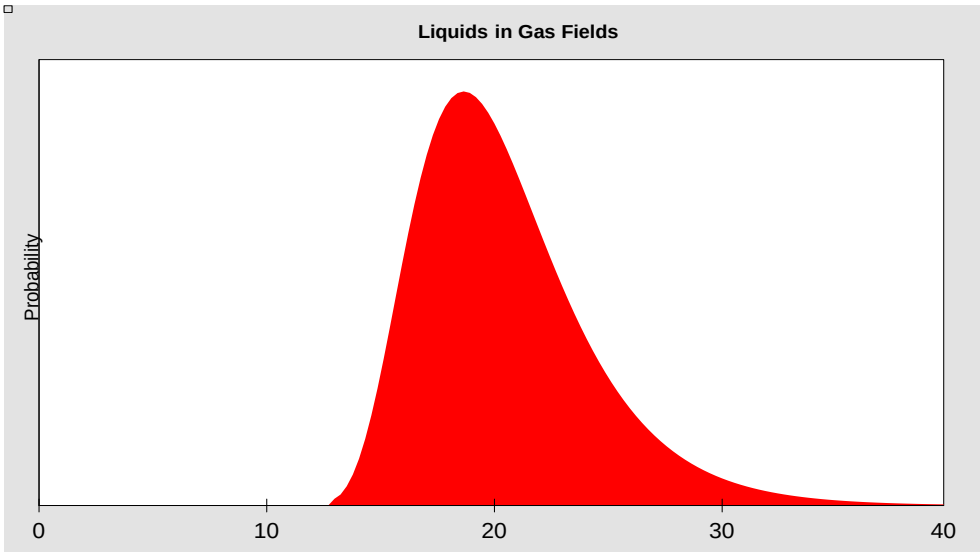
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	411.65	426.57
Median	71.61	71.89
Mode	---	---
Standard Deviation	1,579.45	1,527.16
Variance	2,494,649.14	2,332,224.50
Skewness	10.83	11.04
Kurtosis	159.77	166.22
Coefficient of Variability	3.84	3.58
Minimum	30.01	30.00
Maximum	35,677.70	36,000.00
Range Width	35,647.70	35,970.00
Mean Standard Error	7.06	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.01	30.00
95%	31.16	31.15
90%	32.57	32.55
85%	34.37	34.35
80%	36.65	36.66
75%	39.55	39.60
70%	43.27	43.33
65%	48.10	48.06
60%	54.10	54.09
55%	61.68	61.84
50%	71.61	71.89
45%	84.86	85.11
40%	102.69	102.82
35%	126.60	127.12
30%	160.84	161.54
25%	210.59	212.46
20%	290.88	292.61
15%	431.91	431.29
10%	711.59	713.44
5%	1,513.00	1,528.59
0%	35,677.70	36,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.65	20.65
Standard Deviation	3.91	3.91
Selected range is from -Infinity to 30.00		10.00 to 40.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.63	20.63
Median	19.98	20.00
Mode	---	---
Standard Deviation	3.85	3.84
Variance	14.83	14.78
Skewness	1.02	1.01
Kurtosis	4.54	4.46
Coefficient of Variability	0.1867	0.1864
Minimum	12.39	10.00
Maximum	39.99	40.00
Range Width	27.60	30.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.39	10.00
95%	15.55	15.57
90%	16.31	16.34
85%	16.89	16.92
80%	17.42	17.41
75%	17.87	17.87
70%	18.31	18.30
65%	18.72	18.72
60%	19.15	19.14
55%	19.57	19.56
50%	19.98	20.00
45%	20.44	20.45
40%	20.94	20.94
35%	21.46	21.46
30%	22.03	22.04
25%	22.70	22.70
20%	23.47	23.47
15%	24.45	24.44
10%	25.77	25.74
5%	27.83	27.89
0%	39.99	40.00

End of Assumptions

Simulation started on 8/24/2009 at 18:58:27
Simulation stopped on 8/24/2009 at 19:26:10