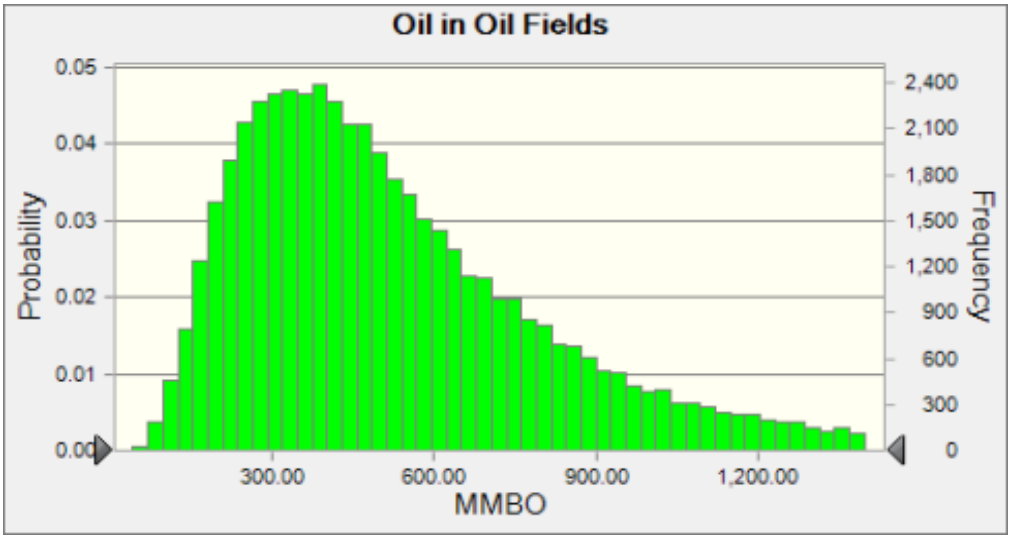
40680101
Provencal Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 41.79 to 3,052.43
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.38



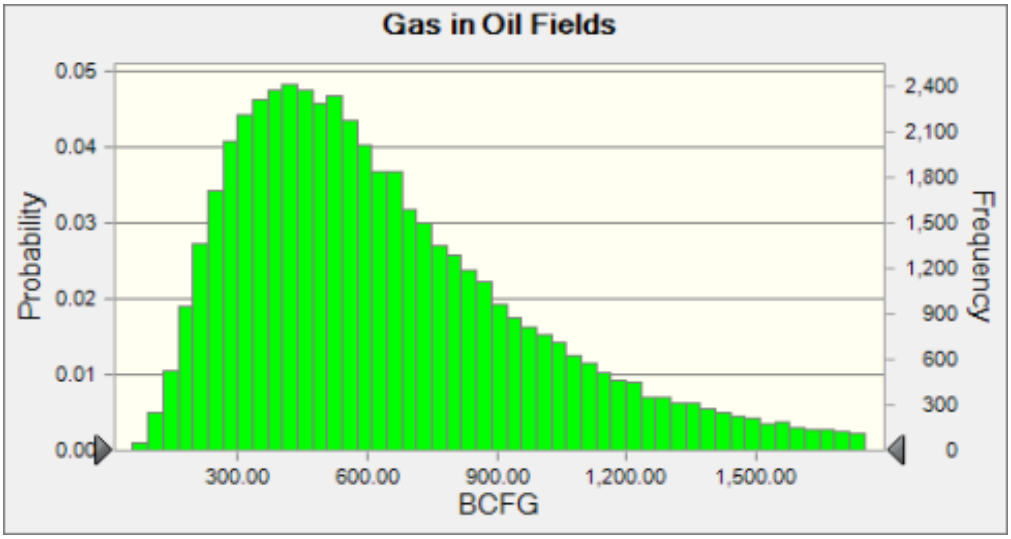
Statistics:	Forecast values
Trials	50,000
Mean	534.79
Median	463.73
Mode	---
Standard Deviation	308.19
Variance	94,982.85
Skewness	1.41
Kurtosis	5.86
Coefficient of Variability	0.5763
Minimum	41.79
Maximum	3,052.43
Range Width	3,010.64
Mean Standard Error	1.38

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	41.79
95%	175.98
90%	218.16
85%	252.24
80%	283.16
75%	313.22
70%	342.29
65%	372.25
60%	401.09
55%	431.47
50%	463.73
45%	497.32
40%	534.65
35%	577.45
30%	624.42
25%	681.39
20%	747.30
15%	829.82
10%	946.83
5%	1,147.96
0%	3,052.43

Forecast: Gas in Oil Fields

Summary:
Entire range is from 56.09 to 4,044.41
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.74



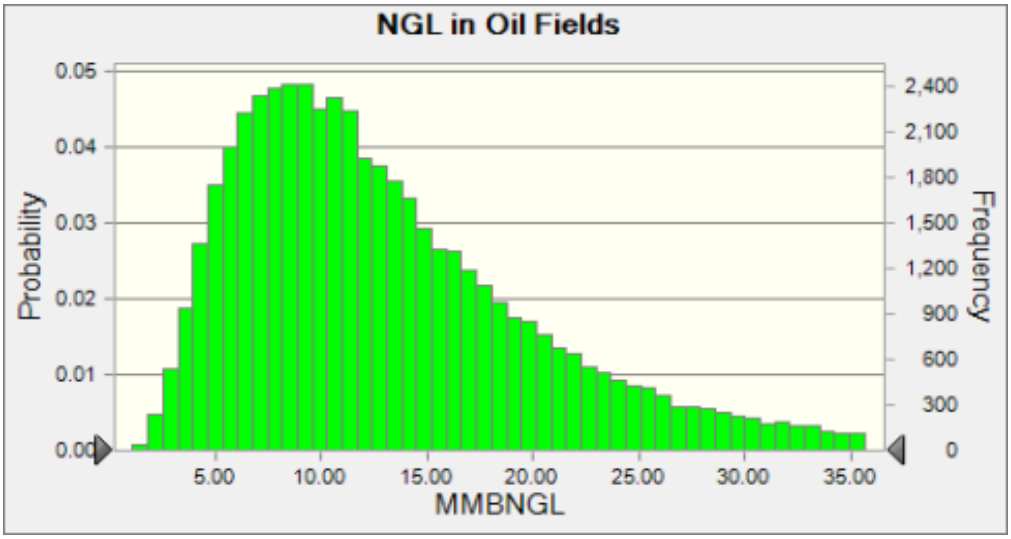
Statistics:	Forecast values
Trials	50,000
Mean	662.22
Median	571.13
Mode	---
Standard Deviation	389.49
Variance	151,706.00
Skewness	1.50
Kurtosis	6.35
Coefficient of Variability	0.5882
Minimum	56.09
Maximum	4,044.41
Range Width	3,988.32
Mean Standard Error	1.74

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	56.09
95%	214.84
90%	267.05
85%	308.96
80%	347.23
75%	384.09
70%	420.05
65%	456.55
60%	494.61
55%	531.51
50%	571.11
45%	613.92
40%	660.35
35%	712.64
30%	772.16
25%	840.74
20%	923.85
15%	1,030.72
10%	1,177.50
5%	1,430.69
0%	4,044.41

Forecast: NGL in Oil Fields

Summary:
Entire range is from 1.09 to 89.43
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.04



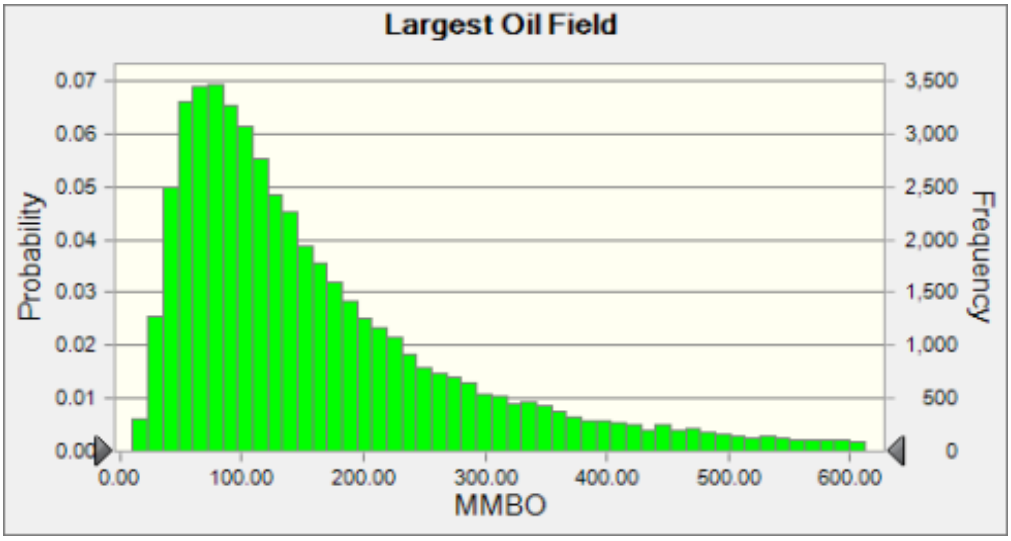
Statistics:	Forecast values
Trials	50,000
Mean	13.41
Median	11.52
Mode	---
Standard Deviation	7.93
Variance	62.95
Skewness	1.53
Kurtosis	6.61
Coefficient of Variability	0.5918
Minimum	1.09
Maximum	89.43
Range Width	88.34
Mean Standard Error	0.04

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	1.09
95%	4.32
90%	5.37
85%	6.23
80%	7.02
75%	7.76
70%	8.48
65%	9.21
60%	9.99
55%	10.74
50%	11.52
45%	12.42
40%	13.37
35%	14.41
30%	15.66
25%	17.04
20%	18.72
15%	20.84
10%	23.89
5%	29.02
0%	89.43

Forecast: Largest Oil Field

Summary:
Entire range is from 10.34 to 999.90
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.69



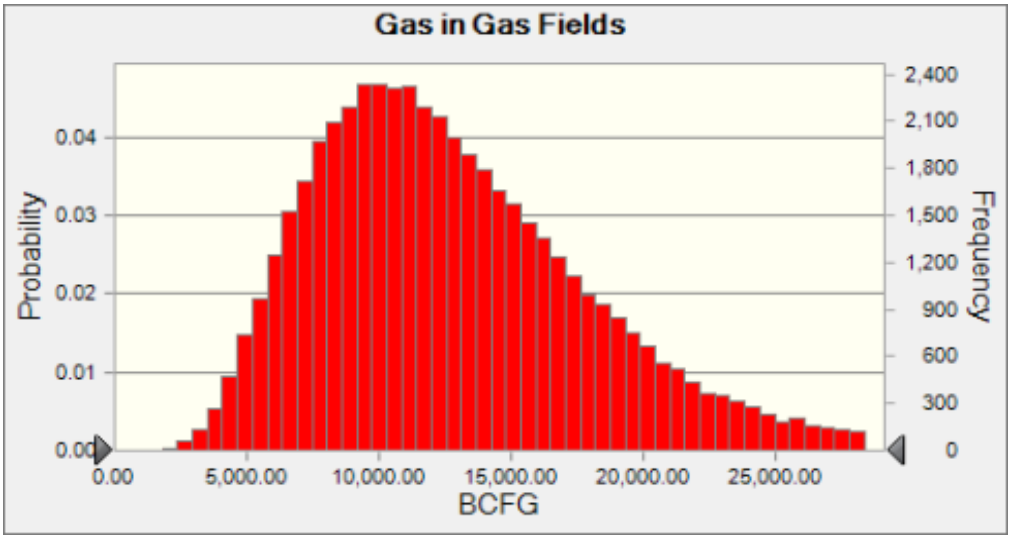
Statistics:	Forecast values
Trials	50,000
Mean	178.88
Median	128.79
Mode	---
Standard Deviation	154.67
Variance	23,924.12
Skewness	2.12
Kurtosis	8.36
Coefficient of Variability	0.8647
Minimum	10.34
Maximum	999.90
Range Width	989.56
Mean Standard Error	0.69

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	10.34
95%	39.98
90%	50.70
85%	59.90
80%	68.80
75%	77.63
70%	86.71
65%	96.09
60%	105.98
55%	116.73
50%	128.79
45%	142.30
40%	157.56
35%	175.42
30%	196.36
25%	222.16
20%	255.95
15%	301.73
10%	371.76
5%	505.01
0%	999.90

Forecast: Gas in Gas Fields

Summary:
Entire range is from 665.70 to 47,266.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 24.64



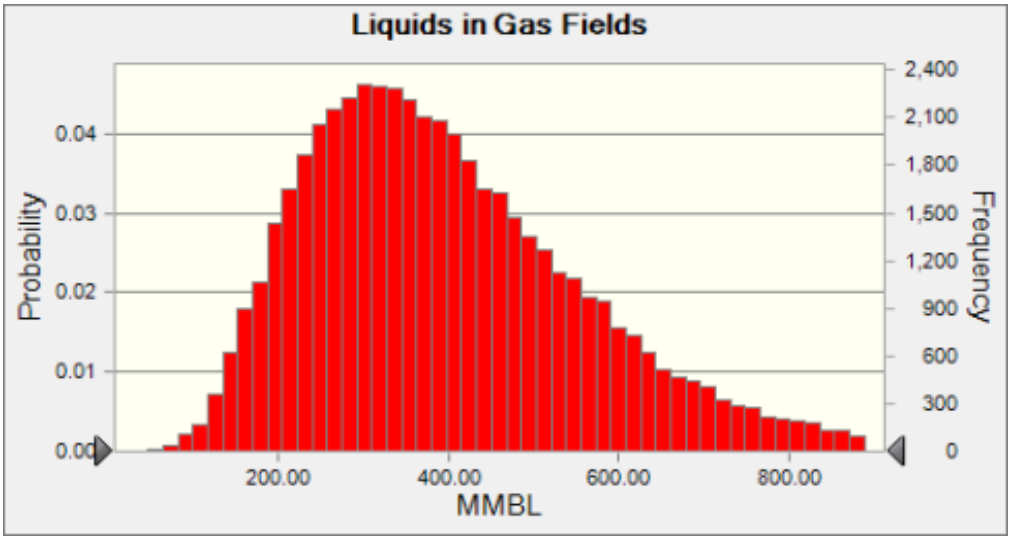
Statistics:	Forecast values
Trials	50,000
Mean	12,906.83
Median	11,990.20
Mode	---
Standard Deviation	5,509.17
Variance	30,350,976.06
Skewness	1.00
Kurtosis	4.46
Coefficient of Variability	0.4268
Minimum	665.70
Maximum	47,266.65
Range Width	46,600.95
Mean Standard Error	24.64

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	665.70
95%	5,668.90
90%	6,730.77
85%	7,545.79
80%	8,249.24
75%	8,910.59
70%	9,513.51
65%	10,137.05
60%	10,734.89
55%	11,343.27
50%	11,990.18
45%	12,653.02
40%	13,368.77
35%	14,151.22
30%	15,003.17
25%	15,959.92
20%	17,055.48
15%	18,419.99
10%	20,220.34
5%	23,262.57
0%	47,266.65

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 29.48 to 1,493.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.78



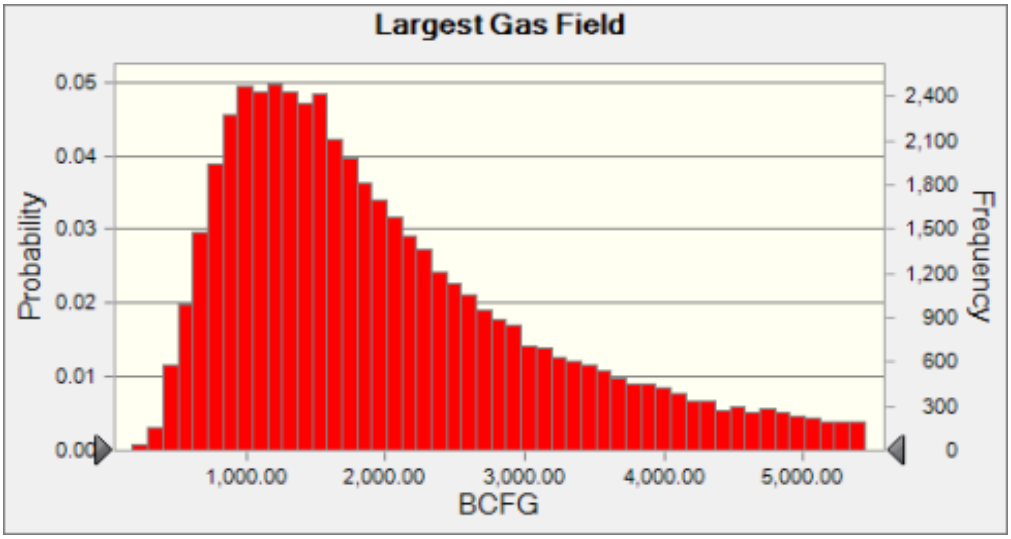
Statistics:	Forecast values
Trials	50,000
Mean	402.21
Median	372.75
Mode	---
Standard Deviation	173.70
Variance	30,170.27
Skewness	1.01
Kurtosis	4.46
Coefficient of Variability	0.4318
Minimum	29.48
Maximum	1,493.53
Range Width	1,464.05
Mean Standard Error	0.78

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	29.48
95%	174.93
90%	207.94
85%	233.08
80%	255.28
75%	275.44
70%	295.16
65%	313.93
60%	332.94
55%	352.78
50%	372.75
45%	393.82
40%	416.01
35%	440.43
30%	467.48
25%	498.25
20%	534.09
15%	576.36
10%	632.68
5%	729.00
0%	1,493.53

Forecast: Largest Gas Field

Summary:
Entire range is from 188.48 to 5,998.72
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.40



Statistics:	Forecast values
Trials	50,000
Mean	2,059.40
Median	1,732.17
Mode	---
Standard Deviation	1,206.46
Variance	1,455,549.34
Skewness	1.11
Kurtosis	3.72
Coefficient of Variability	0.5858
Minimum	188.48
Maximum	5,998.72
Range Width	5,810.24
Mean Standard Error	5.40

Forecast: Largest Gas Field (continued)

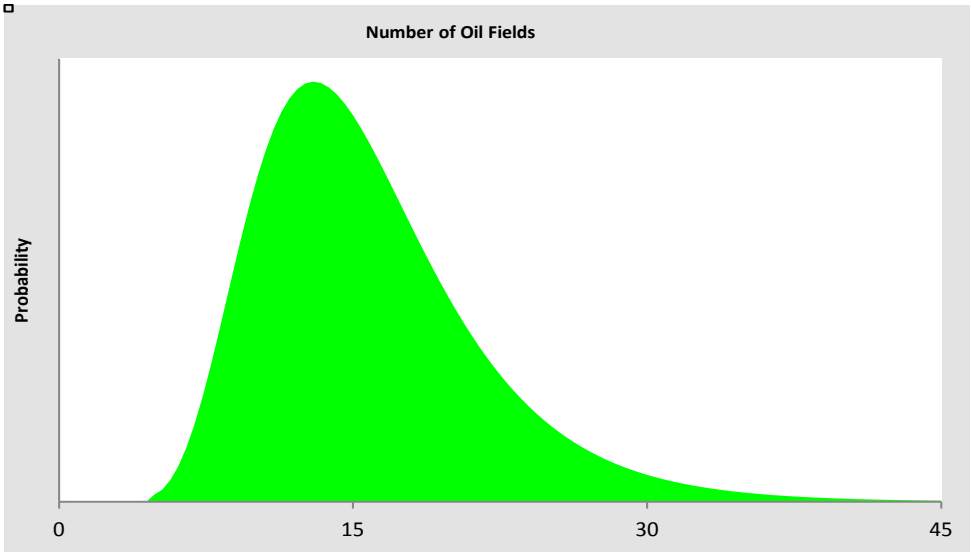
Percentiles:	BCFG
100%	188.48
95%	675.90
90%	821.37
85%	939.63
80%	1,047.70
75%	1,157.49
70%	1,265.77
65%	1,375.79
60%	1,489.74
55%	1,603.07
50%	1,732.16
45%	1,874.26
40%	2,030.88
35%	2,208.73
30%	2,414.28
25%	2,656.86
20%	2,955.98
15%	3,353.33
10%	3,869.05
5%	4,648.14
0%	5,998.72

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	15.00	16
Standard Deviation	5.75	5.75
Selected range is from -Infinity to 44.00		1.00 to 45.00



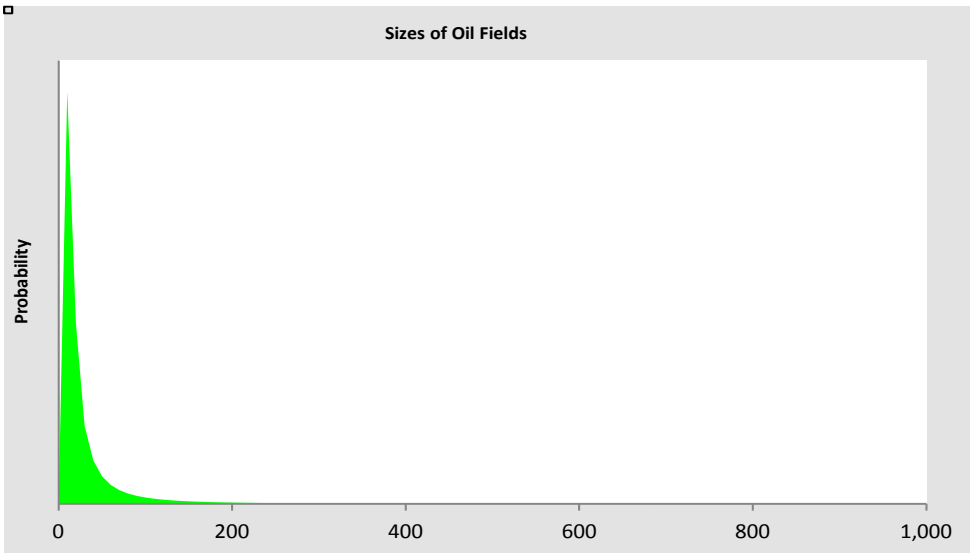
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.94	15.96
Median	15.01	14.99
Mode	---	---
Standard Deviation	5.63	5.65
Variance	31.74	31.95
Skewness	1.05	1.06
Kurtosis	4.58	4.61
Coefficient of Variability	0.3534	0.3541
Minimum	4.22	1.00
Maximum	44.67	45.00
Range Width	40.44	44.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.22	1.00
95%	8.60	8.61
90%	9.70	9.71
85%	10.53	10.53
80%	11.24	11.25
75%	11.88	11.90
70%	12.51	12.52
65%	13.13	13.13
60%	13.72	13.74
55%	14.37	14.36
50%	15.01	14.99
45%	15.67	15.66
40%	16.35	16.37
35%	17.14	17.14
30%	17.97	17.99
25%	18.92	18.96
20%	20.04	20.10
15%	21.46	21.53
10%	23.44	23.47
5%	26.61	26.67
0%	44.67	45.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	30.29	35.29
Standard Deviation	86.59	86.59
Selected range is from -Infinity to 995.00		5.00 to 1,000.00



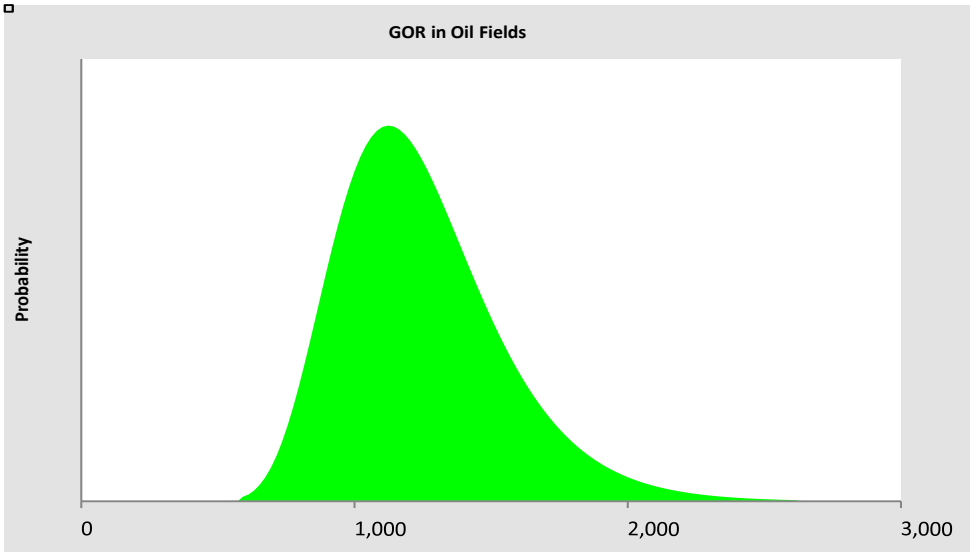
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	33.58	33.71
Median	15.02	14.98
Mode	---	---
Standard Deviation	59.93	61.37
Variance	3,591.05	3,765.85
Skewness	6.14	6.33
Kurtosis	57.53	60.55
Coefficient of Variability	1.78	1.82
Minimum	5.01	5.00
Maximum	983.84	1,000.00
Range Width	978.83	995.00
Mean Standard Error	0.27	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.01	5.00
95%	5.86	5.86
90%	6.49	6.48
85%	7.15	7.14
80%	7.85	7.85
75%	8.66	8.66
70%	9.59	9.58
65%	10.66	10.63
60%	11.91	11.85
55%	13.34	13.28
50%	15.02	14.98
45%	17.13	17.03
40%	19.69	19.55
35%	22.87	22.70
30%	27.03	26.76
25%	32.59	32.20
20%	40.18	39.86
15%	52.18	51.53
10%	72.00	71.88
5%	118.25	119.17
0%	983.84	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	200
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



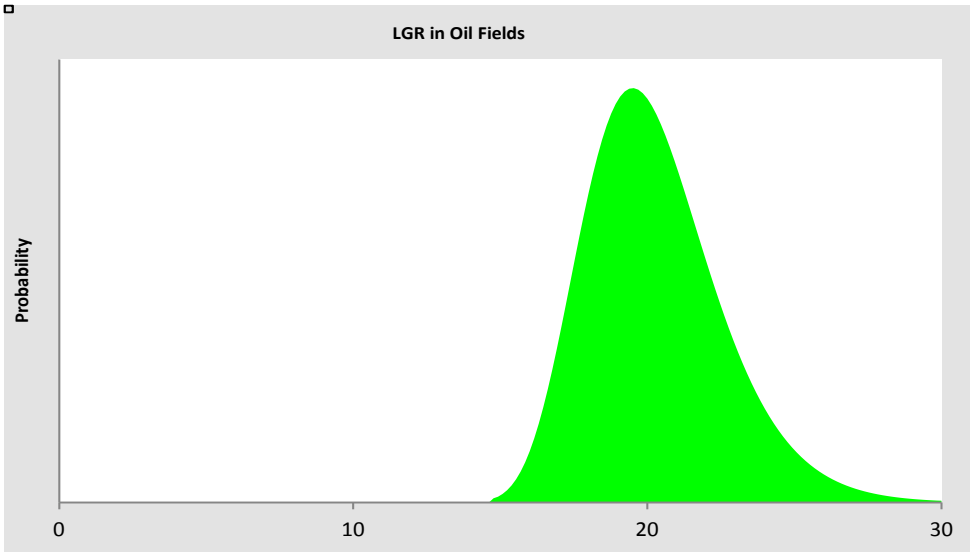
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,239.35	1,239.39
Median	1,199.87	1,199.64
Mode	---	---
Standard Deviation	295.61	296.94
Variance	87,384.40	88,174.88
Skewness	0.7428	0.7906
Kurtosis	3.68	3.85
Coefficient of Variability	0.2385	0.2396
Minimum	486.32	200.00
Maximum	2,577.19	2,600.00
Range Width	2,090.87	2,400.00
Mean Standard Error	1.32	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	486.32	200.00
95%	826.27	827.41
90%	894.60	895.41
85%	945.14	945.40
80%	987.18	987.69
75%	1,025.88	1,025.87
70%	1,061.62	1,061.72
65%	1,096.41	1,096.34
60%	1,131.01	1,130.46
55%	1,165.43	1,164.71
50%	1,199.87	1,199.64
45%	1,236.70	1,235.84
40%	1,277.10	1,273.95
35%	1,318.17	1,314.80
30%	1,363.13	1,359.52
25%	1,412.12	1,409.77
20%	1,469.97	1,468.25
15%	1,540.80	1,539.93
10%	1,634.10	1,635.69
5%	1,788.36	1,789.52
0%	2,577.19	2,600.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	10
Mean	10.25	20.25
Standard Deviation	2.33	2.33
Selected range is from -Infinity to 20.00		10.00 to 30.00



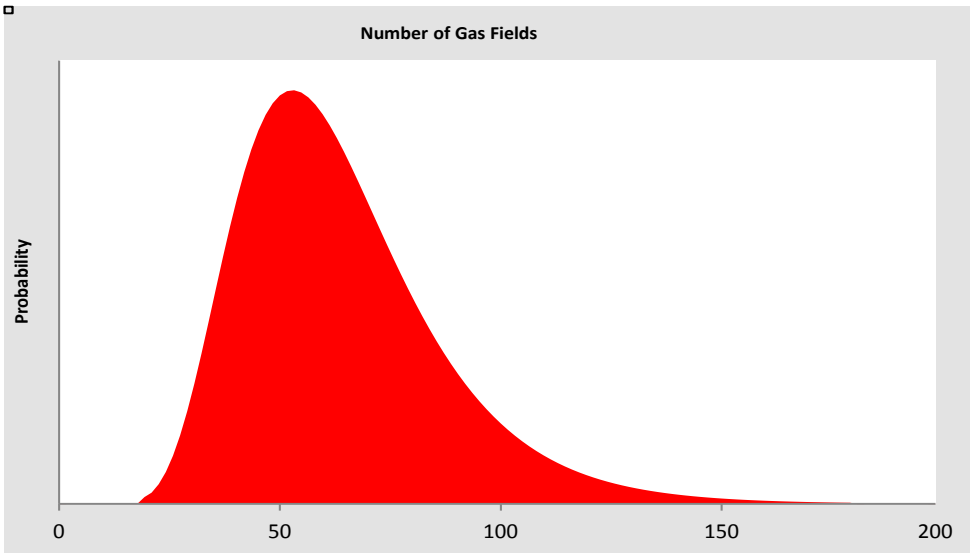
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.26	20.24
Median	20.02	20.00
Mode	---	---
Standard Deviation	2.30	2.30
Variance	5.30	5.31
Skewness	0.6050	0.6157
Kurtosis	3.43	3.47
Coefficient of Variability	0.1137	0.1138
Minimum	13.83	10.00
Maximum	29.99	30.00
Range Width	16.16	20.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.83	10.00
95%	16.94	16.91
90%	17.51	17.50
85%	17.94	17.92
80%	18.29	18.28
75%	18.61	18.59
70%	18.90	18.89
65%	19.17	19.17
60%	19.45	19.45
55%	19.73	19.72
50%	20.02	20.00
45%	20.30	20.28
40%	20.60	20.58
35%	20.92	20.90
30%	21.26	21.24
25%	21.64	21.63
20%	22.09	22.07
15%	22.62	22.61
10%	23.33	23.32
5%	24.45	24.43
0%	29.99	30.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	62.93	63.93
Standard Deviation	23.35	23.35
Selected range is from -Infinity to 179.00		1.00 to 180.00



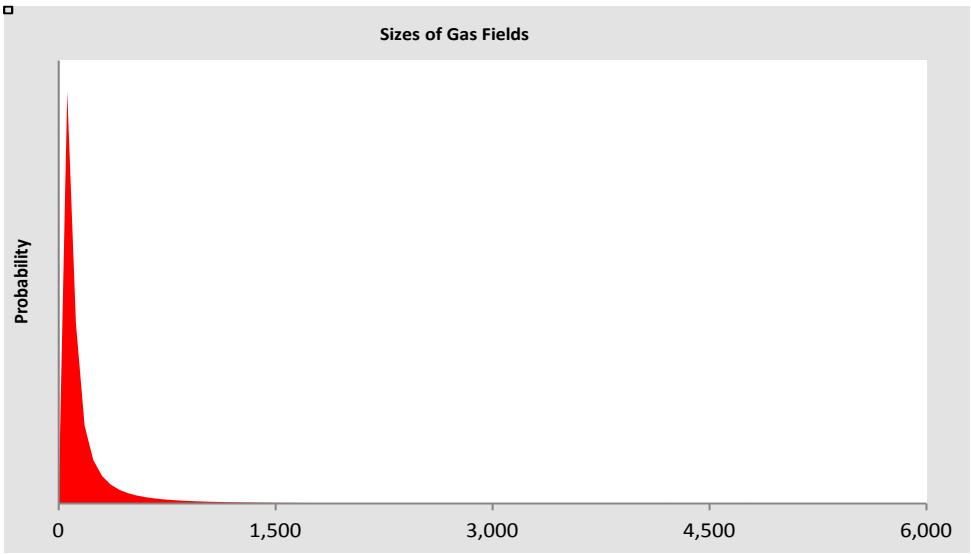
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	63.89	63.80
Median	59.99	59.97
Mode	---	---
Standard Deviation	23.02	22.96
Variance	529.90	527.03
Skewness	1.03	1.02
Kurtosis	4.52	4.49
Coefficient of Variability	0.3603	0.3599
Minimum	13.79	1.00
Maximum	179.99	180.00
Range Width	166.20	179.00
Mean Standard Error	0.10	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.79	1.00
95%	33.90	33.67
90%	38.31	38.23
85%	41.67	41.65
80%	44.56	44.60
75%	47.35	47.29
70%	49.85	49.86
65%	52.37	52.36
60%	54.88	54.85
55%	57.45	57.37
50%	59.99	59.97
45%	62.73	62.69
40%	65.54	65.58
35%	68.80	68.71
30%	72.25	72.18
25%	76.20	76.11
20%	80.89	80.74
15%	86.71	86.50
10%	94.73	94.32
5%	107.35	107.17
0%	179.99	180.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	181.72	211.72
Standard Deviation	519.53	519.53
Selected range is from -Infinity to 5,970.00		30.00 to 6,000.00



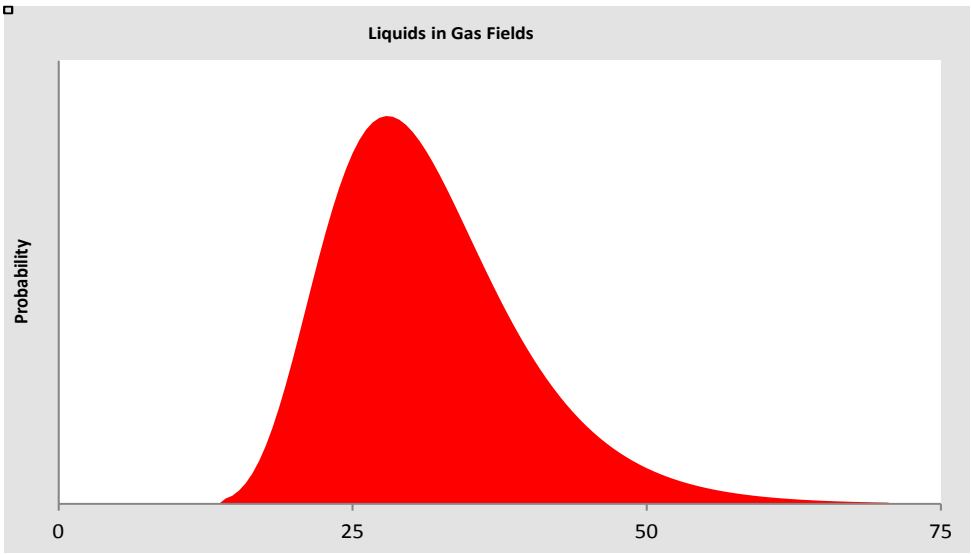
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	201.31	202.24
Median	90.66	89.89
Mode	---	---
Standard Deviation	363.82	368.20
Variance	132,367.79	135,570.57
Skewness	6.32	6.33
Kurtosis	60.51	60.55
Coefficient of Variability	1.81	1.82
Minimum	30.08	30.00
Maximum	5,925.35	6,000.00
Range Width	5,895.27	5,970.00
Mean Standard Error	1.63	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.08	30.00
95%	35.19	35.18
90%	38.99	38.90
85%	42.99	42.81
80%	47.38	47.12
75%	52.23	51.96
70%	57.79	57.45
65%	64.28	63.76
60%	71.70	71.08
55%	80.44	79.68
50%	90.66	89.89
45%	102.93	102.19
40%	117.80	117.29
35%	136.13	136.20
30%	160.42	160.59
25%	193.12	193.20
20%	239.25	239.15
15%	309.68	309.19
10%	434.12	431.26
5%	708.85	715.03
0%	5,925.35	6,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
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	31.17	31.18
Median	29.92	29.99
Mode	---	---
Standard Deviation	8.18	8.19
Variance	66.92	67.03
Skewness	0.8908	0.8687
Kurtosis	4.08	4.05
Coefficient of Variability	0.2625	0.2626
Minimum	12.62	5.00
Maximum	69.87	70.00
Range Width	57.25	65.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.62	5.00
95%	20.08	20.03
90%	21.85	21.82
85%	23.16	23.14
80%	24.30	24.27
75%	25.30	25.29
70%	26.26	26.25
65%	27.18	27.19
60%	28.07	28.11
55%	28.98	29.04
50%	29.92	29.99
45%	30.90	30.98
40%	31.96	32.02
35%	33.09	33.15
30%	34.35	34.38
25%	35.76	35.78
20%	37.34	37.40
15%	39.37	39.41
10%	42.01	42.10
5%	46.50	46.46
0%	69.87	70.00

End of Assumptions

Simulation started on 1/31/2012 at 3:09 PM
Simulation stopped on 1/31/2012 at 3:14 PM