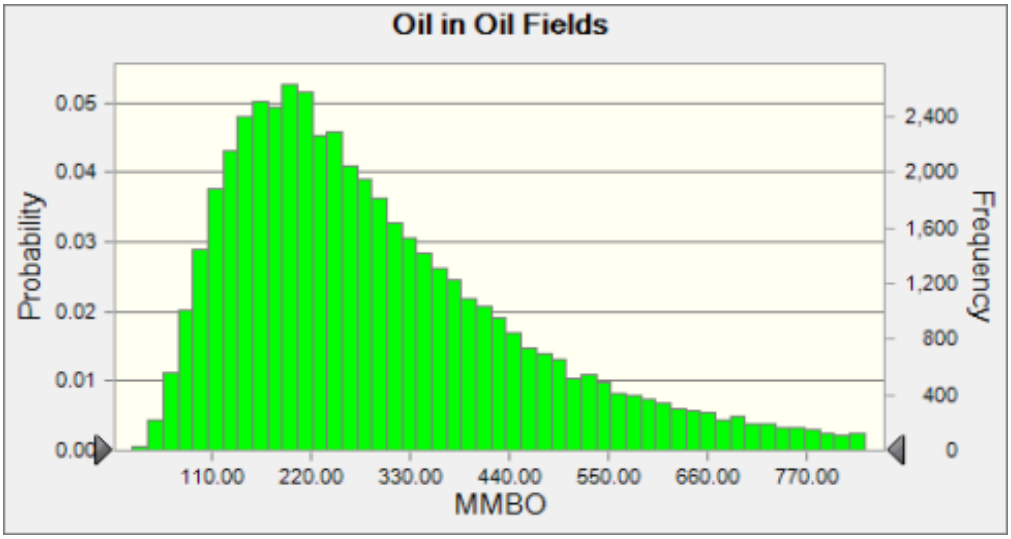
52150101
Jeanne d'Arc Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 21.81 to 1,976.66
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.84



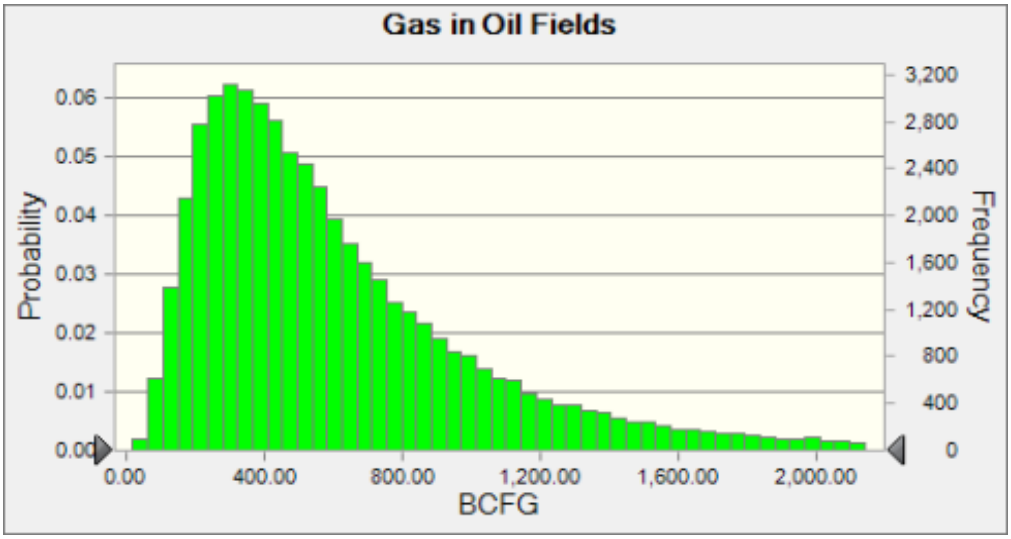
Statistics:	Forecast values
Trials	50,000
Mean	306.46
Median	258.63
Mode	---
Standard Deviation	188.66
Variance	35,592.31
Skewness	1.58
Kurtosis	6.52
Coefficient of Variability	0.6156
Minimum	21.81
Maximum	1,976.66
Range Width	1,954.85
Mean Standard Error	0.84

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	21.81
95%	96.23
90%	120.33
85%	139.41
80%	156.80
75%	173.03
70%	189.89
65%	205.52
60%	221.71
55%	240.05
50%	258.62
45%	279.02
40%	301.36
35%	327.23
30%	355.89
25%	389.10
20%	429.21
15%	481.20
10%	556.53
5%	685.33
0%	1,976.66

Forecast: Gas in Oil Fields

Summary:
Entire range is from 18.72 to 10,508.84
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.38



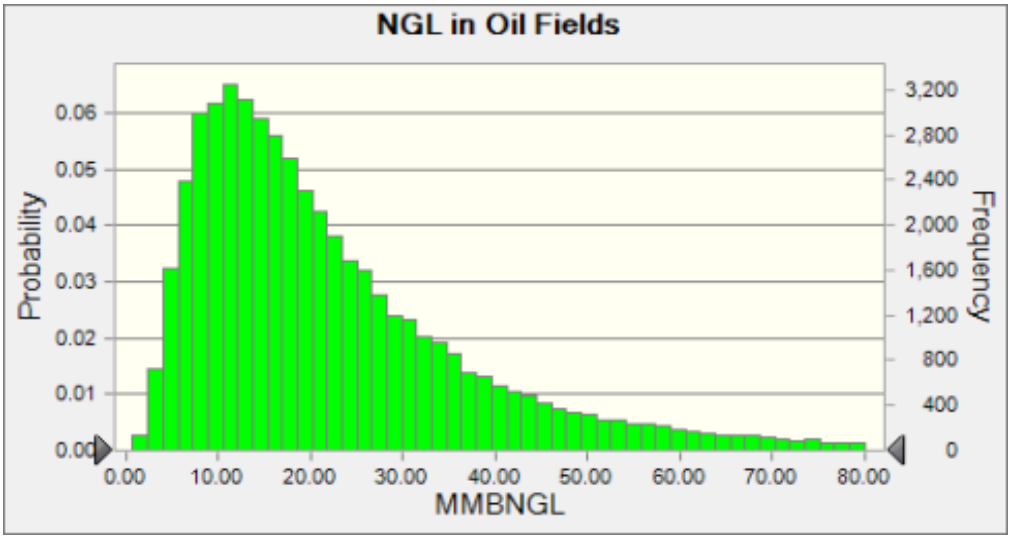
Statistics:	Forecast values
Trials	50,000
Mean	645.60
Median	502.12
Mode	---
Standard Deviation	532.98
Variance	284,062.39
Skewness	3.24
Kurtosis	24.20
Coefficient of Variability	0.8255
Minimum	18.72
Maximum	10,508.84
Range Width	10,490.12
Mean Standard Error	2.38

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	18.72
95%	158.41
90%	203.96
85%	242.29
80%	277.60
75%	311.79
70%	347.10
65%	382.44
60%	419.99
55%	459.33
50%	502.11
45%	547.60
40%	597.67
35%	655.84
30%	723.23
25%	805.15
20%	905.94
15%	1,036.45
10%	1,232.81
5%	1,607.00
0%	10,508.84

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.73 to 448.19
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.09



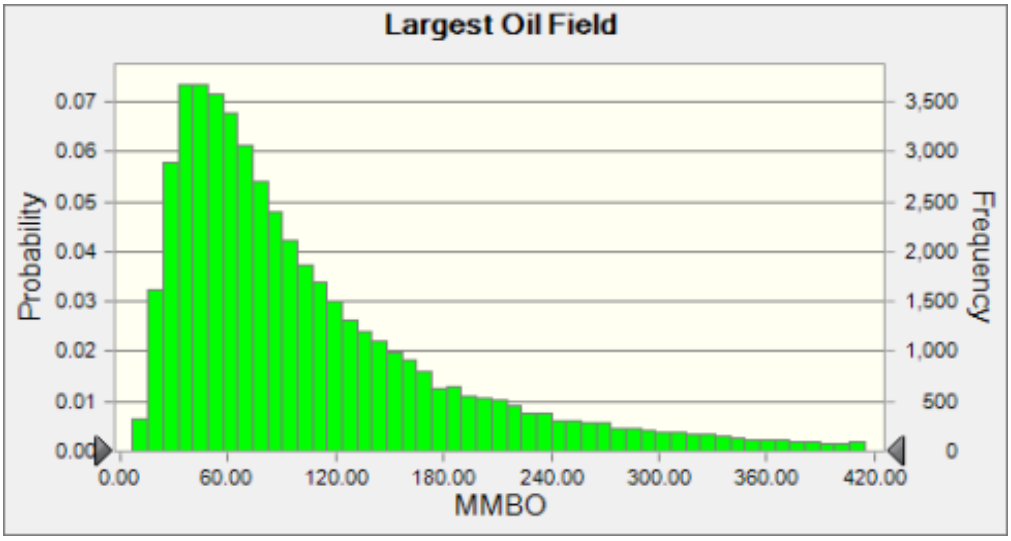
Statistics:	Forecast values
Trials	50,000
Mean	23.57
Median	18.09
Mode	---
Standard Deviation	20.15
Variance	406.04
Skewness	3.55
Kurtosis	29.19
Coefficient of Variability	0.8549
Minimum	0.73
Maximum	448.19
Range Width	447.46
Mean Standard Error	0.09

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.73
95%	5.58
90%	7.26
85%	8.62
80%	9.93
75%	11.19
70%	12.46
65%	13.75
60%	15.13
55%	16.58
50%	18.09
45%	19.80
40%	21.68
35%	23.85
30%	26.30
25%	29.34
20%	33.02
15%	37.80
10%	45.15
5%	59.29
0%	448.19

Forecast: Largest Oil Field

Summary:
Entire range is from 6.95 to 749.31
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.48



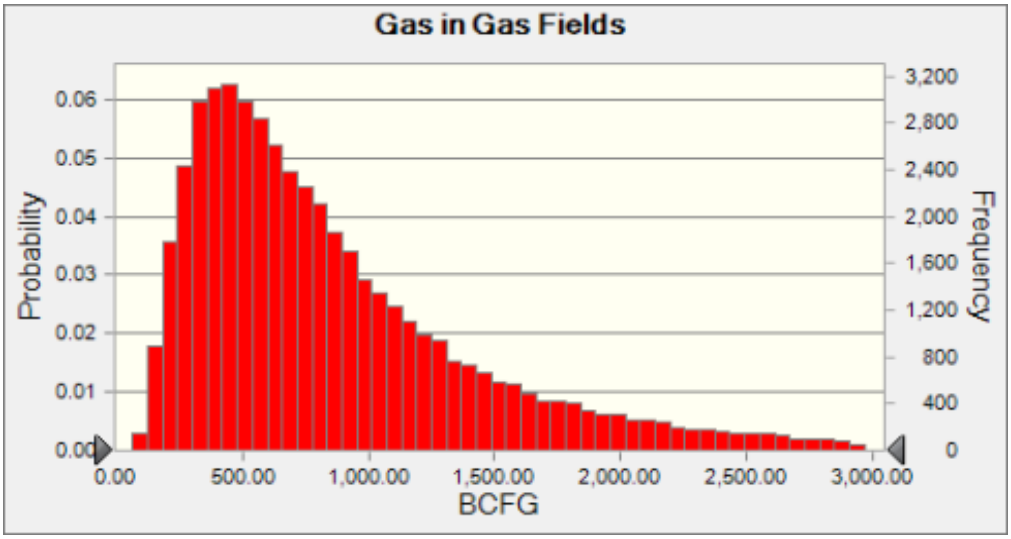
Statistics:	Forecast values
Trials	50,000
Mean	116.62
Median	82.06
Mode	---
Standard Deviation	106.32
Variance	11,304.30
Skewness	2.40
Kurtosis	10.27
Coefficient of Variability	0.9117
Minimum	6.95
Maximum	749.31
Range Width	742.36
Mean Standard Error	0.48

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	6.95
95%	25.52
90%	32.32
85%	38.07
80%	43.63
75%	49.34
70%	55.08
65%	60.86
60%	67.35
55%	74.29
50%	82.06
45%	90.73
40%	100.77
35%	112.47
30%	126.31
25%	143.36
20%	164.62
15%	195.97
10%	242.55
5%	332.92
0%	749.31

Forecast: Gas in Gas Fields

Summary:
Entire range is from 64.90 to 8,040.06
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.27



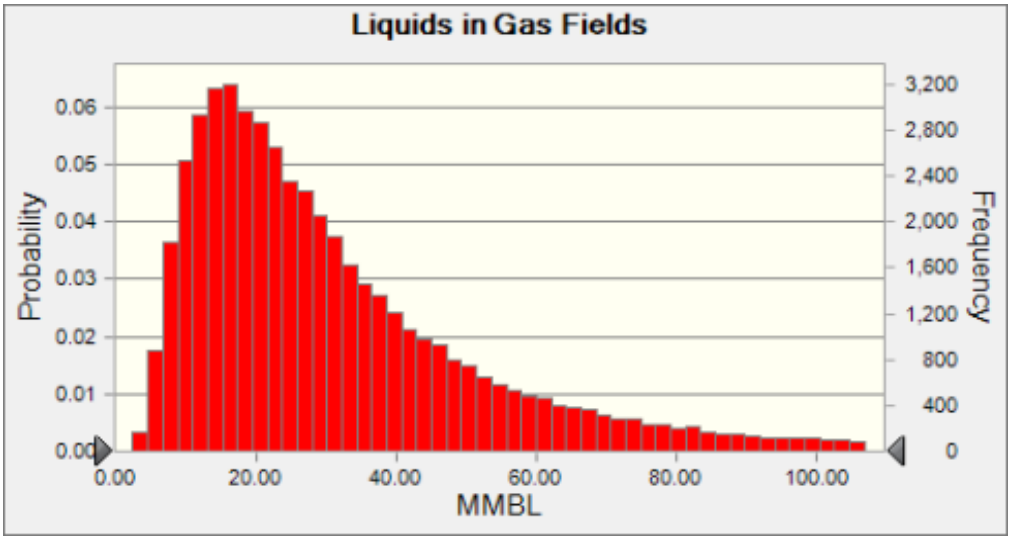
Statistics:	Forecast values
Trials	50,000
Mean	920.14
Median	709.64
Mode	---
Standard Deviation	731.21
Variance	534,671.17
Skewness	2.38
Kurtosis	11.52
Coefficient of Variability	0.7947
Minimum	64.90
Maximum	8,040.06
Range Width	7,975.16
Mean Standard Error	3.27

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	64.90
95%	233.93
90%	296.09
85%	346.95
80%	395.75
75%	442.74
70%	489.64
65%	540.42
60%	591.52
55%	648.14
50%	709.63
45%	775.31
40%	846.37
35%	929.12
30%	1,028.33
25%	1,145.29
20%	1,292.94
15%	1,496.22
10%	1,795.87
5%	2,350.92
0%	8,040.06

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 2.26 to 303.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.12



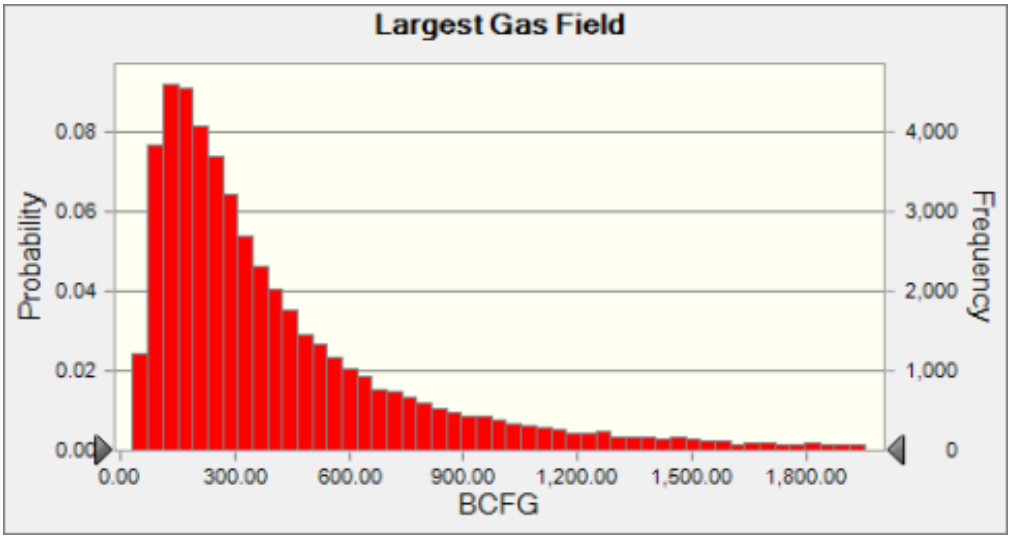
Statistics:	Forecast values
Trials	50,000
Mean	32.89
Median	25.22
Mode	---
Standard Deviation	26.42
Variance	698.09
Skewness	2.44
Kurtosis	12.07
Coefficient of Variability	0.8034
Minimum	2.26
Maximum	303.91
Range Width	301.66
Mean Standard Error	0.12

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	2.26
95%	8.29
90%	10.50
85%	12.33
80%	14.10
75%	15.74
70%	17.40
65%	19.21
60%	21.07
55%	23.04
50%	25.22
45%	27.56
40%	30.17
35%	33.13
30%	36.71
25%	40.94
20%	46.27
15%	53.41
10%	64.40
5%	83.83
0%	303.91

Forecast: Largest Gas Field

Summary:
Entire range is from 32.69 to 4,499.46
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.35



Statistics:	Forecast values
Trials	50,000
Mean	478.96
Median	303.89
Mode	---
Standard Deviation	525.76
Variance	276,418.42
Skewness	3.13
Kurtosis	16.09
Coefficient of Variability	1.10
Minimum	32.69
Maximum	4,499.46
Range Width	4,466.77
Mean Standard Error	2.35

Forecast: Largest Gas Field (continued)

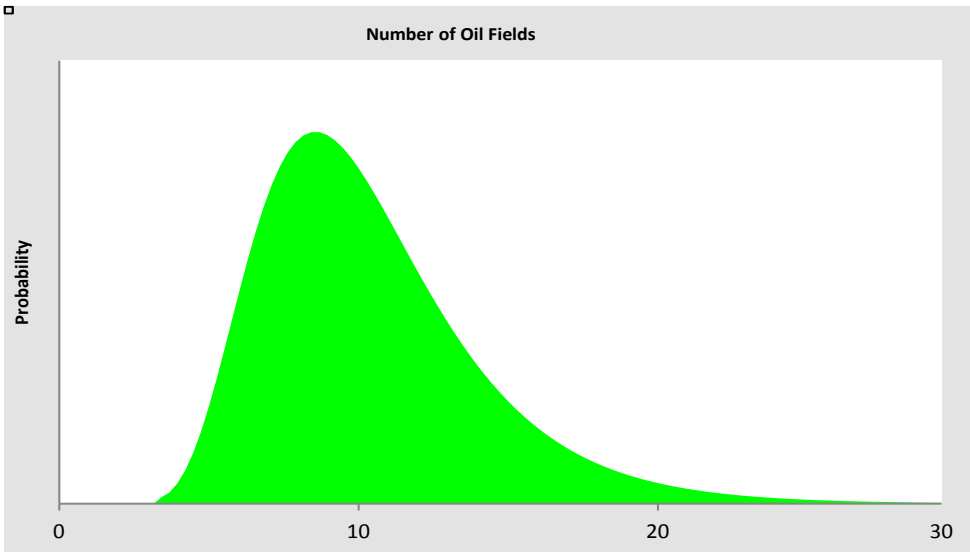
Percentiles:	BCFG
100%	32.69
95%	87.27
90%	110.52
85%	132.19
80%	153.04
75%	174.56
70%	196.76
65%	220.81
60%	246.42
55%	273.67
50%	303.87
45%	339.47
40%	380.84
35%	430.20
30%	490.50
25%	567.01
20%	666.20
15%	807.20
10%	1,029.55
5%	1,473.41
0%	4,499.46

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	9.67	10.67
Standard Deviation	3.80	3.8
Selected range is from -Infinity to 29.00		1.00 to 30.00



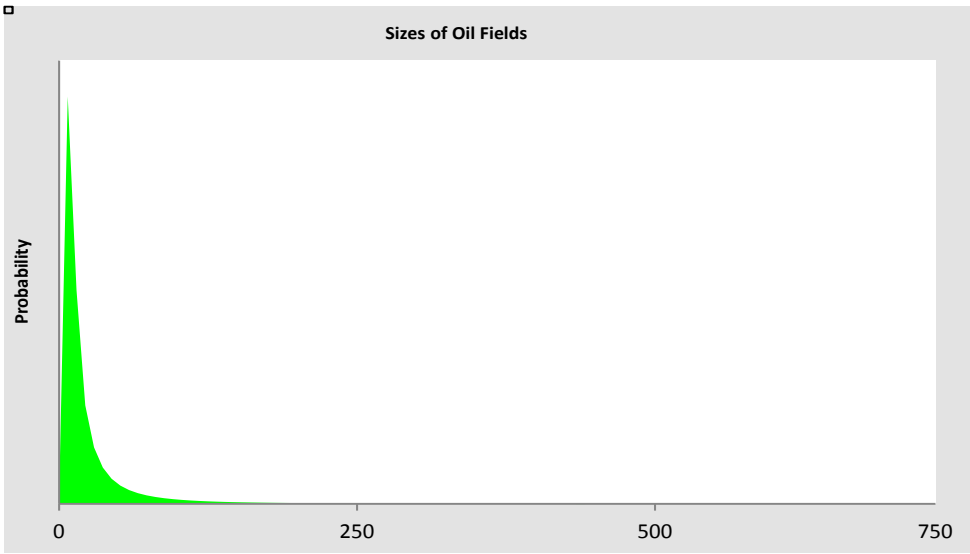
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.65	10.65
Median	10.00	10.00
Mode	---	---
Standard Deviation	3.74	3.73
Variance	13.98	13.90
Skewness	1.09	1.08
Kurtosis	4.70	4.69
Coefficient of Variability	0.3512	0.3502
Minimum	2.80	1.00
Maximum	29.99	30.00
Range Width	27.19	29.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.80	1.00
95%	5.80	5.83
90%	6.51	6.54
85%	7.06	7.08
80%	7.55	7.54
75%	7.97	7.97
70%	8.38	8.38
65%	8.78	8.78
60%	9.17	9.17
55%	9.58	9.58
50%	10.00	10.00
45%	10.45	10.43
40%	10.92	10.90
35%	11.41	11.41
30%	11.97	11.97
25%	12.61	12.61
20%	13.36	13.36
15%	14.28	14.31
10%	15.56	15.59
5%	17.76	17.72
0%	29.99	30.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	24.99	29.99
Standard Deviation	64.74	64.74
Selected range is from -Infinity to 745.00		5.00 to 750.00



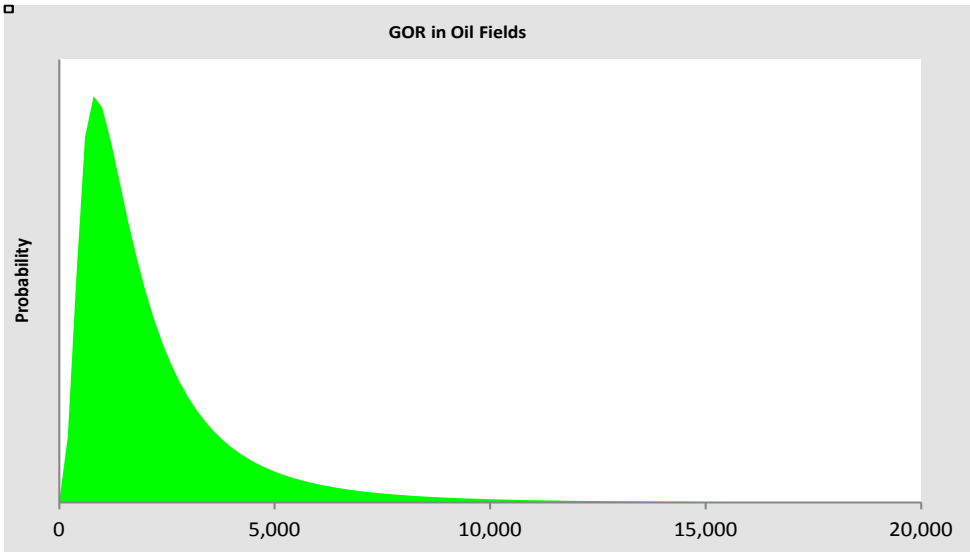
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	28.70	28.82
Median	14.05	13.98
Mode	---	---
Standard Deviation	47.16	47.79
Variance	2,224.26	2,284.36
Skewness	5.90	5.96
Kurtosis	53.72	54.27
Coefficient of Variability	1.64	1.66
Minimum	5.02	5.00
Maximum	748.66	750.00
Range Width	743.64	745.00
Mean Standard Error	0.21	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.02	5.00
95%	5.86	5.86
90%	6.45	6.44
85%	7.05	7.04
80%	7.70	7.70
75%	8.44	8.43
70%	9.28	9.25
65%	10.19	10.18
60%	11.28	11.26
55%	12.54	12.51
50%	14.05	13.98
45%	15.89	15.75
40%	18.02	17.90
35%	20.69	20.57
30%	24.02	23.99
25%	28.47	28.52
20%	34.66	34.84
15%	44.05	44.38
10%	60.39	60.78
5%	98.11	98.22
0%	748.66	750.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	2,099.51	2,129.51
Standard Deviation	2,140.96	2,140.96
Selected range is from -Infinity to 19,970.00		30.00 to 20,000.00



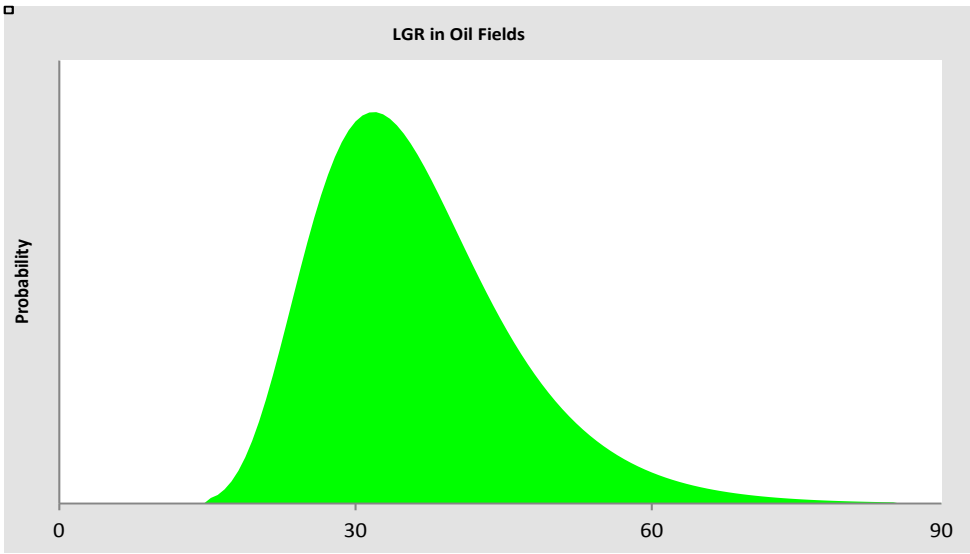
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,088.38	2,105.62
Median	1,494.31	1,498.44
Mode	---	---
Standard Deviation	1,967.52	1,991.93
Variance	3,871,140.13	3,967,782.64
Skewness	2.80	2.82
Kurtosis	14.72	14.99
Coefficient of Variability	0.9421	0.9460
Minimum	58.05	30.00
Maximum	19,985.19	20,000.00
Range Width	19,927.13	19,970.00
Mean Standard Error	8.80	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	58.05	30.00
95%	395.01	396.43
90%	524.21	527.94
85%	637.90	642.40
80%	746.24	751.85
75%	858.47	861.19
70%	971.48	973.43
65%	1,090.52	1,090.91
60%	1,212.68	1,215.87
55%	1,346.71	1,350.75
50%	1,494.30	1,498.44
45%	1,650.07	1,662.62
40%	1,837.74	1,848.22
35%	2,047.92	2,062.19
30%	2,289.59	2,314.91
25%	2,603.12	2,622.85
20%	2,990.40	3,014.56
15%	3,507.53	3,545.83
10%	4,287.30	4,348.86
5%	5,806.17	5,879.35
0%	19,985.19	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	31.55	36.55
Standard Deviation	10.27	10.27
Selected range is from -Infinity to 80.00		5.00 to 85.00



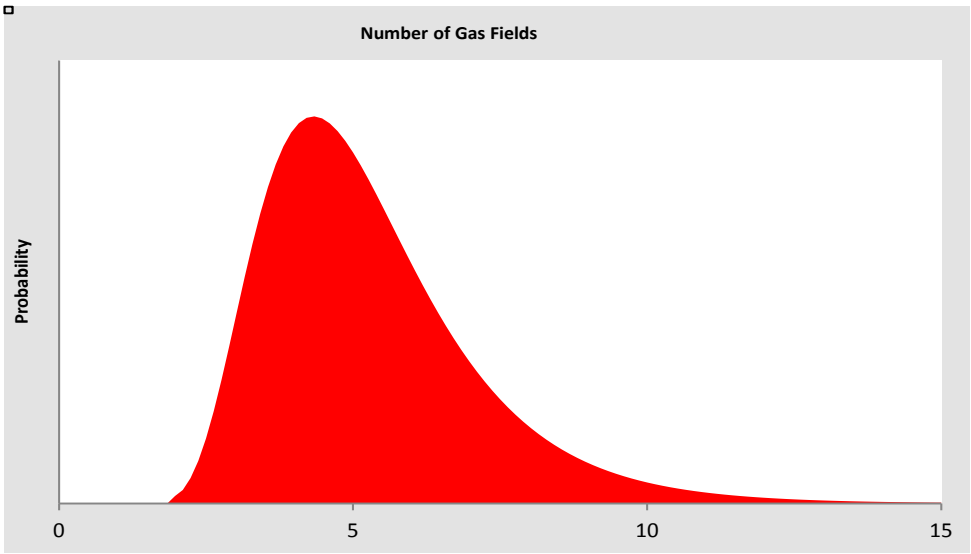
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	36.51	36.49
Median	35.02	34.99
Mode	---	---
Standard Deviation	10.14	10.12
Variance	102.75	102.41
Skewness	0.9148	0.8936
Kurtosis	4.23	4.11
Coefficient of Variability	0.2776	0.2773
Minimum	13.74	5.00
Maximum	84.76	85.00
Range Width	71.02	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.74	5.00
95%	22.80	22.80
90%	24.97	24.97
85%	26.58	26.59
80%	27.98	27.96
75%	29.25	29.21
70%	30.50	30.39
65%	31.64	31.54
60%	32.73	32.67
55%	33.89	33.82
50%	35.02	34.99
45%	36.20	36.21
40%	37.49	37.50
35%	38.90	38.88
30%	40.40	40.41
25%	42.06	42.13
20%	44.07	44.15
15%	46.57	46.64
10%	50.04	49.99
5%	55.45	55.42
0%	84.76	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.34	5.34
Standard Deviation	1.84	1.84
Selected range is from -Infinity to 14.00		1.00 to 15.00



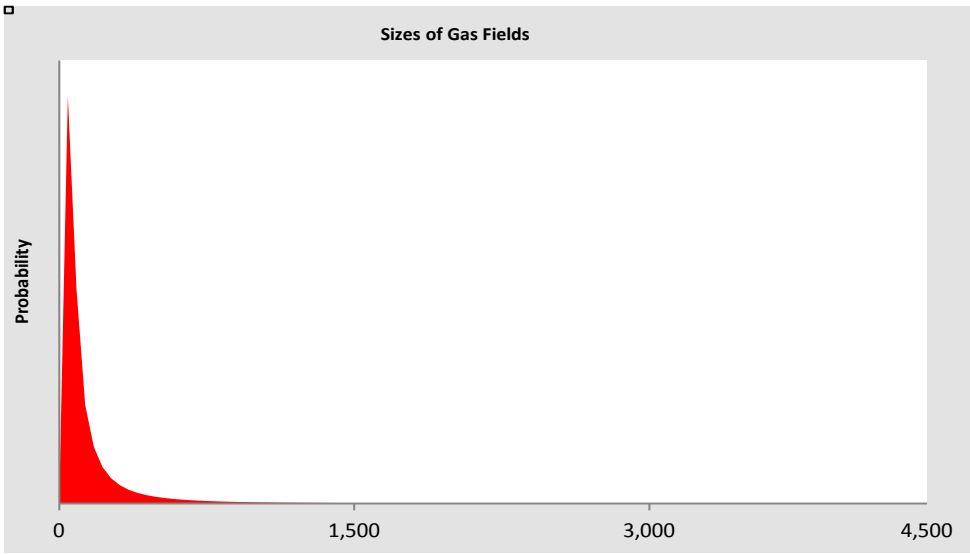
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.33	5.33
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.79	1.80
Variance	3.21	3.24
Skewness	1.16	1.17
Kurtosis	4.97	4.99
Coefficient of Variability	0.3364	0.3376
Minimum	1.55	1.00
Maximum	14.97	15.00
Range Width	13.42	14.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.55	1.00
95%	3.05	3.05
90%	3.38	3.38
85%	3.63	3.63
80%	3.85	3.84
75%	4.04	4.04
70%	4.24	4.23
65%	4.42	4.42
60%	4.61	4.61
55%	4.79	4.80
50%	5.00	5.00
45%	5.20	5.21
40%	5.42	5.43
35%	5.67	5.67
30%	5.95	5.94
25%	6.26	6.25
20%	6.61	6.62
15%	7.07	7.08
10%	7.69	7.71
5%	8.73	8.76
0%	14.97	15.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	149.94	179.94
Standard Deviation	388.42	388.42
Selected range is from -Infinity to 4,470.00		30.00 to 4,500.00



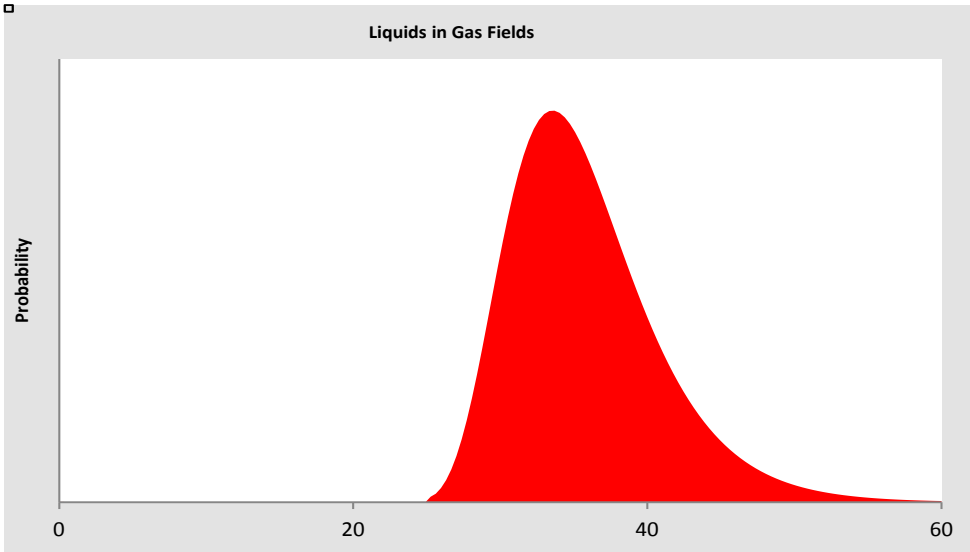
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	172.94	172.95
Median	83.91	83.90
Mode	---	---
Standard Deviation	285.44	286.77
Variance	81,478.05	82,236.86
Skewness	5.83	5.96
Kurtosis	52.43	54.27
Coefficient of Variability	1.65	1.66
Minimum	30.11	30.00
Maximum	4,427.73	4,500.00
Range Width	4,397.62	4,470.00
Mean Standard Error	1.28	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.11	30.00
95%	35.02	35.14
90%	38.50	38.64
85%	42.05	42.27
80%	45.98	46.20
75%	50.24	50.57
70%	55.31	55.49
65%	61.00	61.09
60%	67.52	67.54
55%	74.99	75.05
50%	83.91	83.90
45%	94.33	94.50
40%	107.30	107.39
35%	122.89	123.43
30%	143.13	143.93
25%	170.36	171.12
20%	208.99	209.06
15%	266.55	266.28
10%	368.03	364.70
5%	595.96	589.31
0%	4,427.73	4,500.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	20
Mean	15.78	35.78
Standard Deviation	5.14	5.14
Selected range is from -Infinity to 40.00		20.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	35.73	35.75
Median	34.98	34.99
Mode	---	---
Standard Deviation	5.05	5.06
Variance	25.46	25.60
Skewness	0.8856	0.8936
Kurtosis	4.10	4.11
Coefficient of Variability	0.1412	0.1416
Minimum	23.87	20.00
Maximum	59.82	60.00
Range Width	35.96	40.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	23.87	20.00
95%	28.91	28.90
90%	30.00	29.98
85%	30.77	30.79
80%	31.46	31.48
75%	32.08	32.11
70%	32.67	32.70
65%	33.26	33.27
60%	33.82	33.84
55%	34.39	34.41
50%	34.98	34.99
45%	35.60	35.60
40%	36.25	36.25
35%	36.93	36.94
30%	37.71	37.71
25%	38.58	38.57
20%	39.59	39.58
15%	40.79	40.82
10%	42.45	42.49
5%	45.16	45.21
0%	59.82	60.00

End of Assumptions

Simulation started on 9/16/2011 at 2:32 PM
Simulation stopped on 9/16/2011 at 2:35 PM