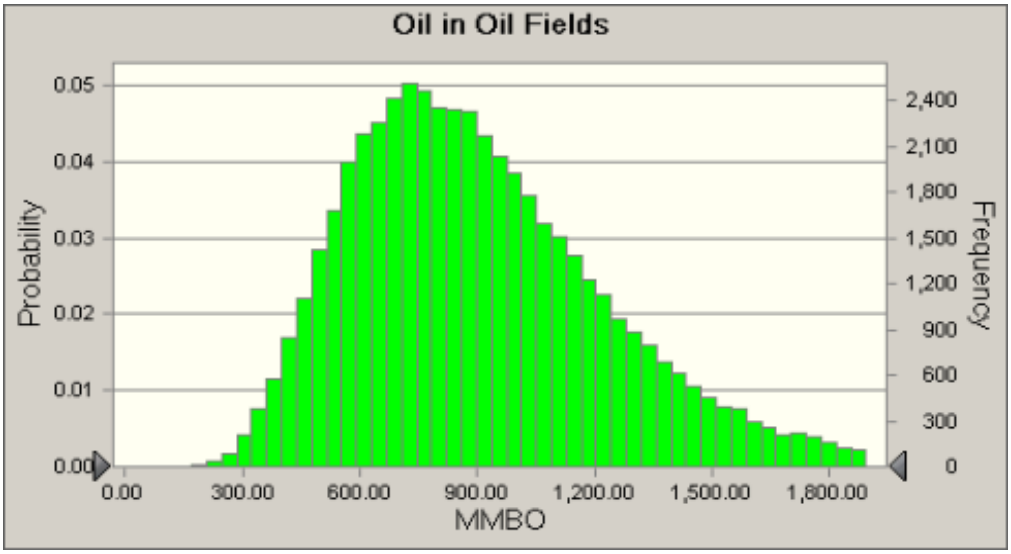
60210102
Nearshore Sandstones
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 15.70 to 2,949.90
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.56



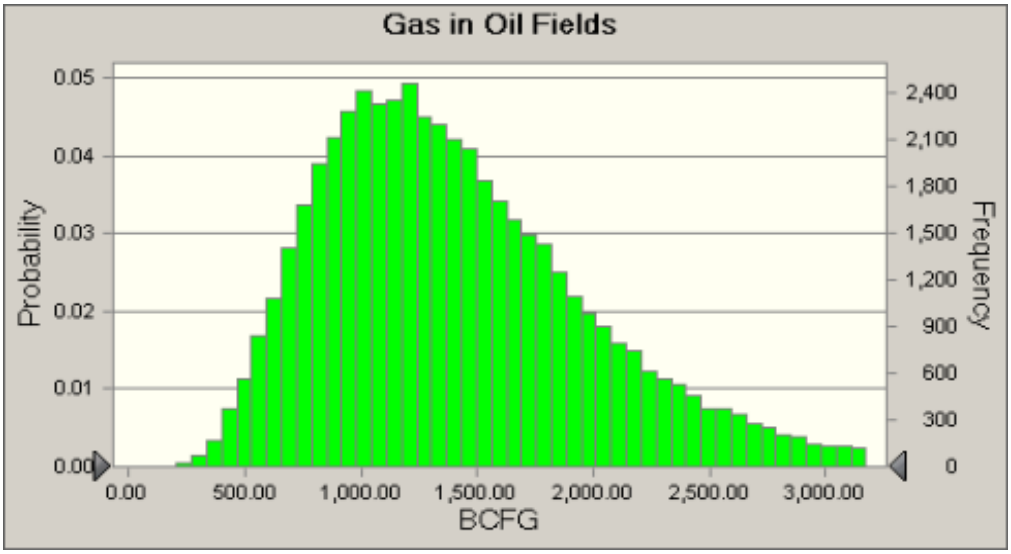
Statistics:	Forecast values
Trials	50,000
Mean	915.17
Median	860.80
Mode	---
Standard Deviation	349.47
Variance	122,128.47
Skewness	0.9755
Kurtosis	4.39
Coefficient of Variability	0.3819
Minimum	15.70
Maximum	2,949.90
Range Width	2,934.21
Mean Standard Error	1.56

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	15.70
95%	450.95
90%	522.88
85%	575.31
80%	619.60
75%	662.69
70%	702.03
65%	740.78
60%	779.29
55%	820.01
50%	860.79
45%	902.15
40%	947.34
35%	995.38
30%	1,047.62
25%	1,108.52
20%	1,176.72
15%	1,262.78
10%	1,378.57
5%	1,565.67
0%	2,949.90

Forecast: Gas in Oil Fields

Summary:
Entire range is from 12.88 to 5,521.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.79



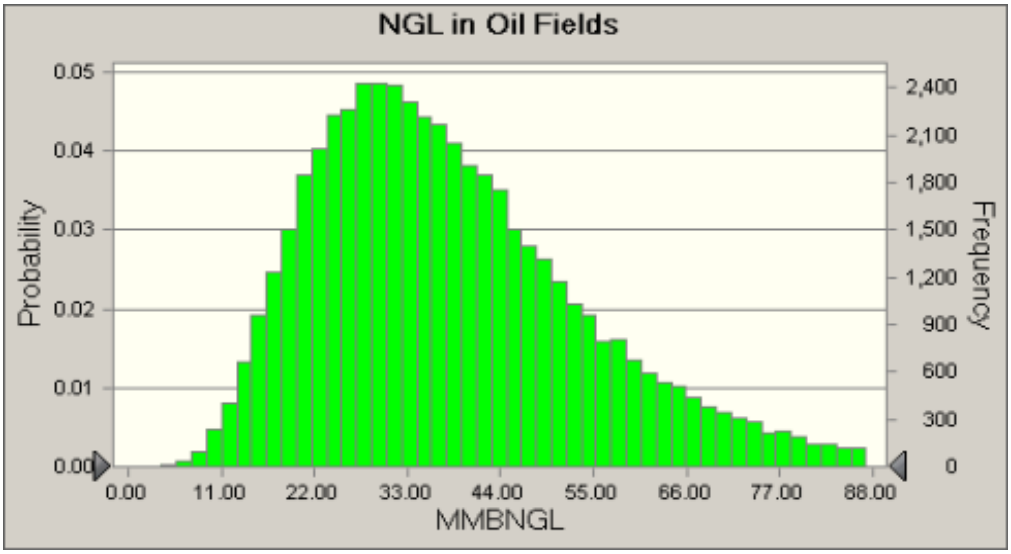
Statistics:	Forecast values
Trials	50,000
Mean	1,428.23
Median	1,321.04
Mode	---
Standard Deviation	622.97
Variance	388,088.90
Skewness	1.11
Kurtosis	4.92
Coefficient of Variability	0.4362
Minimum	12.88
Maximum	5,521.53
Range Width	5,508.66
Mean Standard Error	2.79

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	12.88
95%	622.03
90%	742.50
85%	830.86
80%	907.99
75%	978.47
70%	1,045.30
65%	1,114.03
60%	1,182.77
55%	1,249.40
50%	1,321.00
45%	1,395.32
40%	1,472.77
35%	1,558.41
30%	1,655.21
25%	1,760.40
20%	1,881.96
15%	2,039.65
10%	2,253.94
5%	2,602.87
0%	5,521.53

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.36 to 198.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



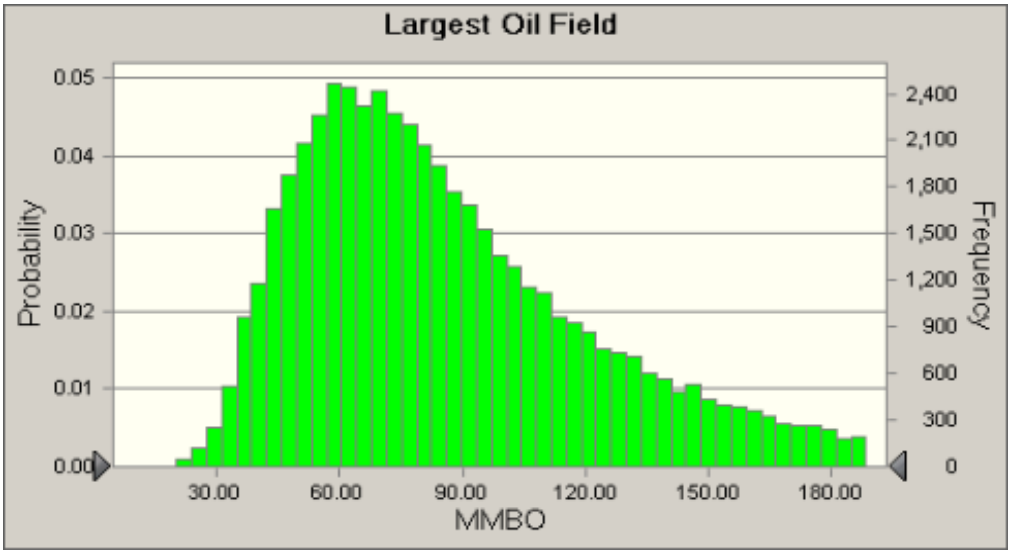
Statistics:	Forecast values
Trials	50,000
Mean	38.64
Median	35.56
Mode	---
Standard Deviation	17.35
Variance	300.92
Skewness	1.18
Kurtosis	5.36
Coefficient of Variability	0.4489
Minimum	0.36
Maximum	198.49
Range Width	198.13
Mean Standard Error	0.08

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.36
95%	16.46
90%	19.68
85%	22.10
80%	24.20
75%	26.19
70%	28.07
65%	29.87
60%	31.70
55%	33.60
50%	35.56
45%	37.62
40%	39.80
35%	42.17
30%	44.66
25%	47.69
20%	51.13
15%	55.52
10%	61.61
5%	71.43
0%	198.49

Forecast: Largest Oil Field

Summary:
Entire range is from 9.06 to 199.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.16



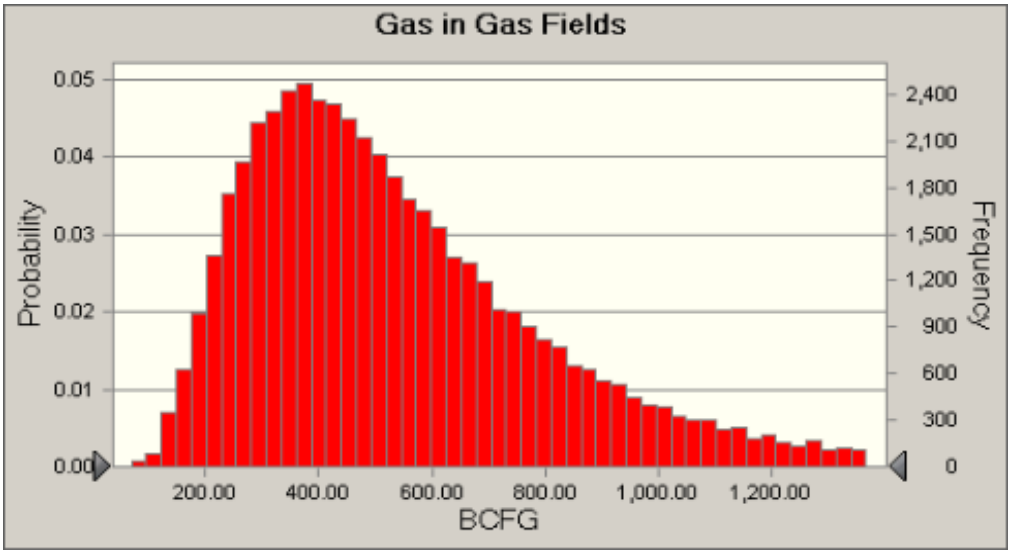
Statistics:	Forecast values
Trials	50,000
Mean	86.44
Median	78.54
Mode	---
Standard Deviation	36.52
Variance	1,333.91
Skewness	0.8824
Kurtosis	3.28
Coefficient of Variability	0.4225
Minimum	9.06
Maximum	199.98
Range Width	190.92
Mean Standard Error	0.16

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	9.06
95%	40.34
90%	46.25
85%	50.99
80%	55.13
75%	59.04
70%	62.72
65%	66.61
60%	70.44
55%	74.44
50%	78.54
45%	83.01
40%	87.87
35%	93.29
30%	99.42
25%	106.77
20%	115.55
15%	126.39
10%	140.19
5%	161.11
0%	199.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 69.86 to 2,807.09
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.30



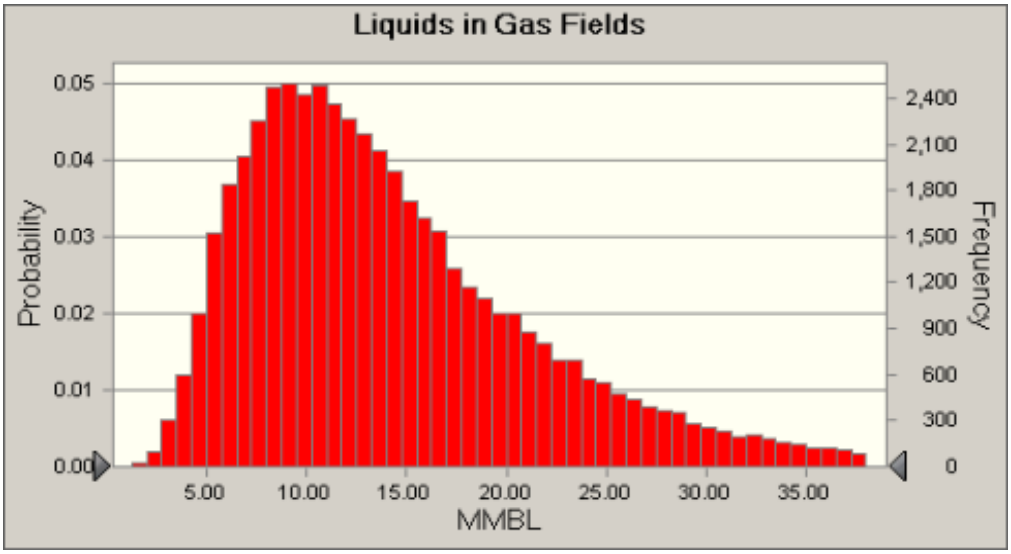
Statistics:	Forecast values
Trials	50,000
Mean	551.04
Median	485.19
Mode	---
Standard Deviation	291.18
Variance	84,785.33
Skewness	1.44
Kurtosis	5.99
Coefficient of Variability	0.5284
Minimum	69.86
Maximum	2,807.09
Range Width	2,737.23
Mean Standard Error	1.30

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	69.86
95%	210.65
90%	252.23
85%	285.83
80%	314.99
75%	343.15
70%	370.91
65%	397.86
60%	425.63
55%	454.28
50%	485.18
45%	517.67
40%	552.94
35%	592.42
30%	636.32
25%	686.86
20%	749.21
15%	826.53
10%	933.97
5%	1,120.59
0%	2,807.09

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.24 to 97.69
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.04



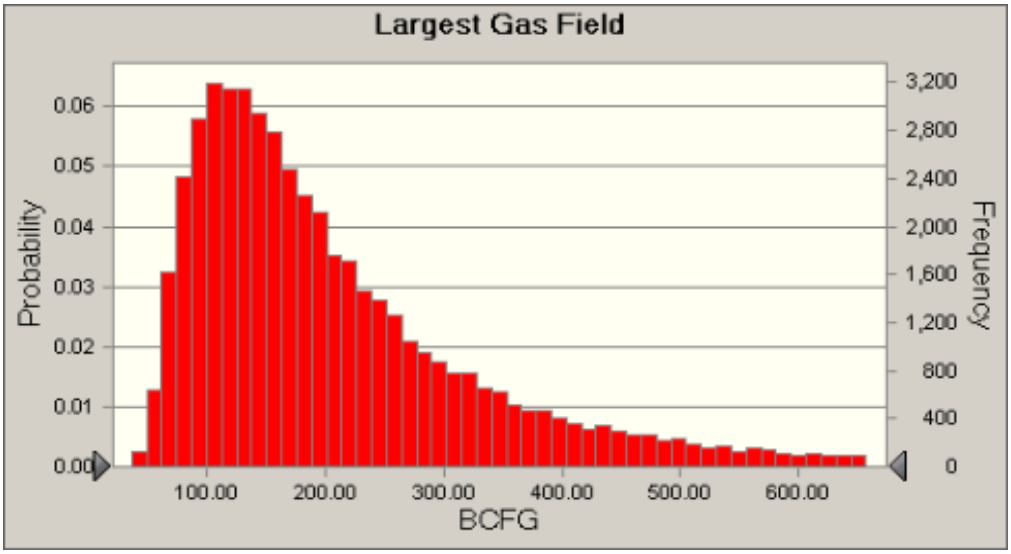
Statistics:	Forecast values
Trials	50,000
Mean	14.69
Median	12.78
Mode	---
Standard Deviation	8.31
Variance	69.06
Skewness	1.65
Kurtosis	7.49
Coefficient of Variability	0.5655
Minimum	1.24
Maximum	97.69
Range Width	96.45
Mean Standard Error	0.04

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.24
95%	5.25
90%	6.35
85%	7.27
80%	8.09
75%	8.85
70%	9.61
65%	10.38
60%	11.14
55%	11.95
50%	12.78
45%	13.68
40%	14.64
35%	15.69
30%	16.90
25%	18.40
20%	20.20
15%	22.35
10%	25.39
5%	30.64
0%	97.69

Forecast: Largest Gas Field

Summary:
Entire range is from 35.70 to 1,199.17
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.70



Statistics:	Forecast values
Trials	50,000
Mean	219.83
Median	173.09
Mode	---
Standard Deviation	156.09
Variance	24,364.11
Skewness	2.26
Kurtosis	9.85
Coefficient of Variability	0.7100
Minimum	35.70
Maximum	1,199.17
Range Width	1,163.47
Mean Standard Error	0.70

Forecast: Largest Gas Field (continued)

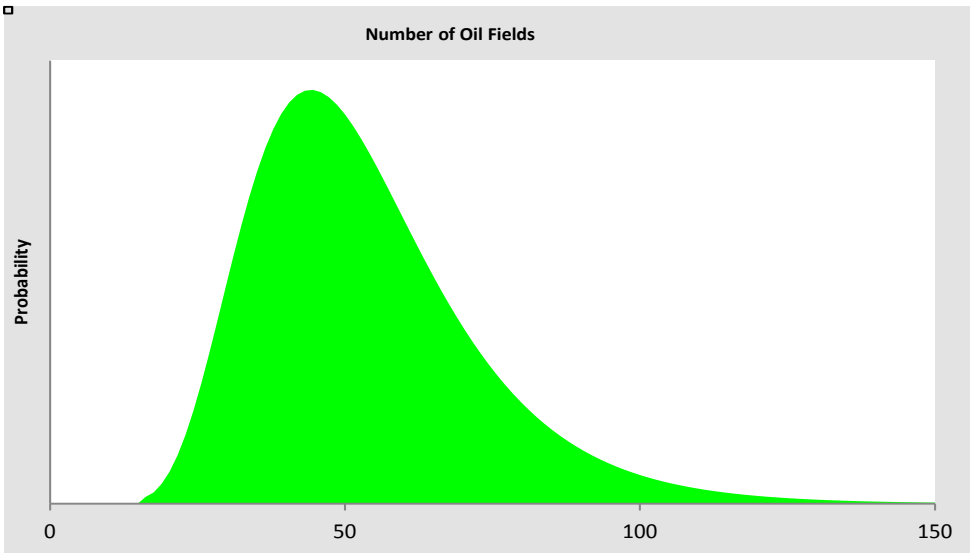
Percentiles:	BCFG
100%	35.70
95%	74.56
90%	87.38
85%	98.21
80%	108.26
75%	118.14
70%	128.28
65%	138.52
60%	149.33
55%	160.65
50%	173.08
45%	187.17
40%	202.41
35%	220.45
30%	241.61
25%	266.09
20%	298.82
15%	341.84
10%	407.21
5%	529.89
0%	1,199.17

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	52.28	53.28
Standard Deviation	19.44	19.44
Selected range is from -Infinity to 149.00		1.00 to 150.00



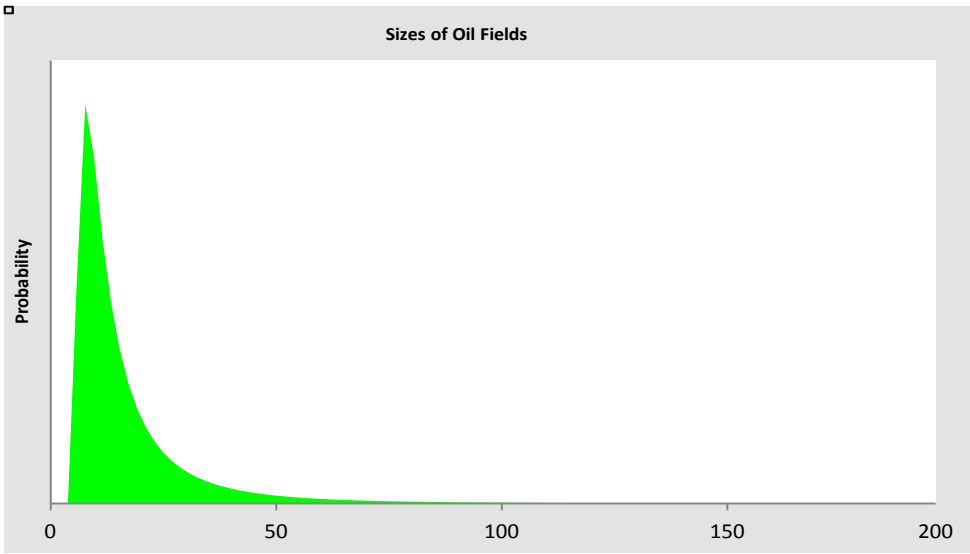
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	53.08	53.17
Median	49.97	49.98
Mode	---	---
Standard Deviation	19.06	19.11
Variance	363.13	365.27
Skewness	0.9948	1.02
Kurtosis	4.40	4.50
Coefficient of Variability	0.3590	0.3595
Minimum	12.77	1.00
Maximum	149.83	150.00
Range Width	137.07	149.00
Mean Standard Error	0.09	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.77	1.00
95%	27.87	28.10
90%	31.76	31.89
85%	34.59	34.74
80%	36.97	37.19
75%	39.28	39.43
70%	41.48	41.56
65%	43.53	43.64
60%	45.63	45.71
55%	47.75	47.81
50%	49.97	49.98
45%	52.21	52.24
40%	54.69	54.65
35%	57.35	57.25
30%	60.19	60.14
25%	63.49	63.41
20%	67.32	67.27
15%	71.96	72.06
10%	78.40	78.57
5%	88.90	89.28
0%	149.83	150.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	12.50	17.5
Standard Deviation	18.49	18.49
Selected range is from -Infinity to 195.00		5.00 to 200.00



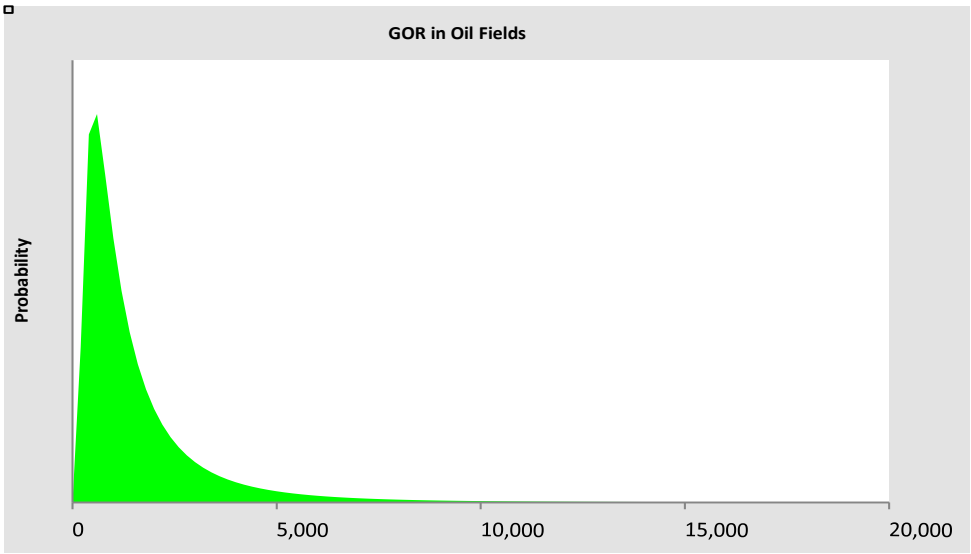
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.22	17.23
Median	12.00	11.99
Mode	---	---
Standard Deviation	16.16	16.18
Variance	261.00	261.82
Skewness	3.97	3.94
Kurtosis	26.49	26.13
Coefficient of Variability	0.94	0.94
Minimum	5.03	5.00
Maximum	197.66	200.00
Range Width	192.63	195.00
Mean Standard Error	0.07	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.03	5.00
95%	6.20	6.19
90%	6.77	6.76
85%	7.31	7.29
80%	7.84	7.83
75%	8.38	8.38
70%	8.97	8.98
65%	9.61	9.62
60%	10.32	10.32
55%	11.12	11.11
50%	12.00	11.99
45%	13.02	13.00
40%	14.18	14.18
35%	15.59	15.58
30%	17.31	17.28
25%	19.48	19.43
20%	22.40	22.27
15%	26.34	26.28
10%	32.67	32.67
5%	45.29	45.74
0%	197.66	200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,486.77	1,586.77
Standard Deviation	1,954.99	1,954.99
Selected range is from -Infinity to 19,900.00		100.00 to 20,000.00



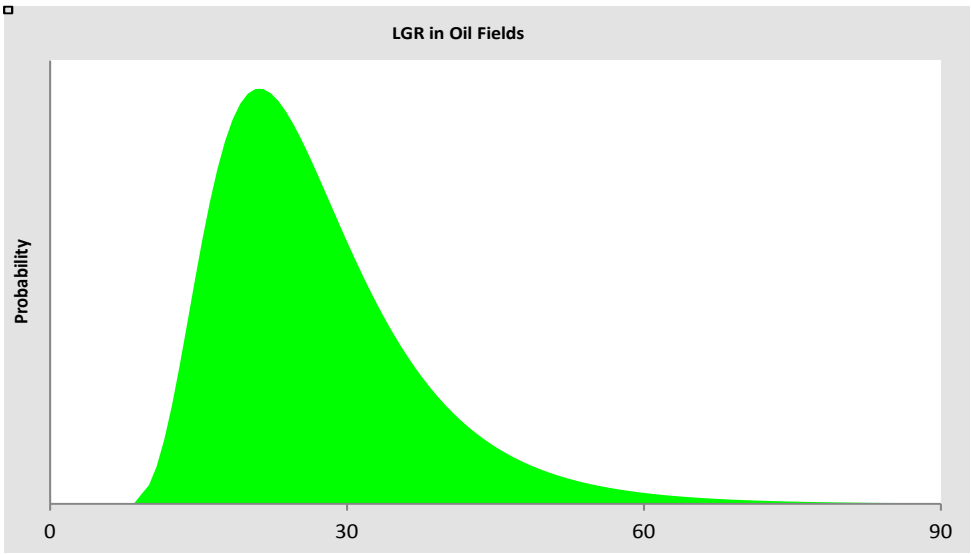
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,568.20	1,560.86
Median	1,005.35	998.87
Mode	---	---
Standard Deviation	1,758.78	1,751.30
Variance	3,093,301.44	3,067,051.73
Skewness	3.51	3.56
Kurtosis	21.14	21.98
Coefficient of Variability	1.12	1.12
Minimum	108.67	100.00
Maximum	19,862.89	20,000.00
Range Width	19,754.22	19,900.00
Mean Standard Error	7.87	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	108.67	100.00
95%	275.43	273.09
90%	350.06	349.07
85%	419.48	418.39
80%	487.70	486.99
75%	559.33	557.51
70%	631.61	631.71
65%	712.84	711.17
60%	801.17	797.51
55%	899.80	892.62
50%	1,005.31	998.87
45%	1,128.31	1,119.34
40%	1,268.53	1,258.27
35%	1,431.36	1,421.75
30%	1,625.96	1,619.00
25%	1,873.47	1,864.90
20%	2,194.96	2,185.60
15%	2,641.91	2,633.15
10%	3,331.60	3,333.57
5%	4,756.02	4,734.66
0%	19,862.89	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	22.12	27.12
Standard Deviation	10.44	10.44
Selected range is from -Infinity to 80.00		5.00 to 85.00



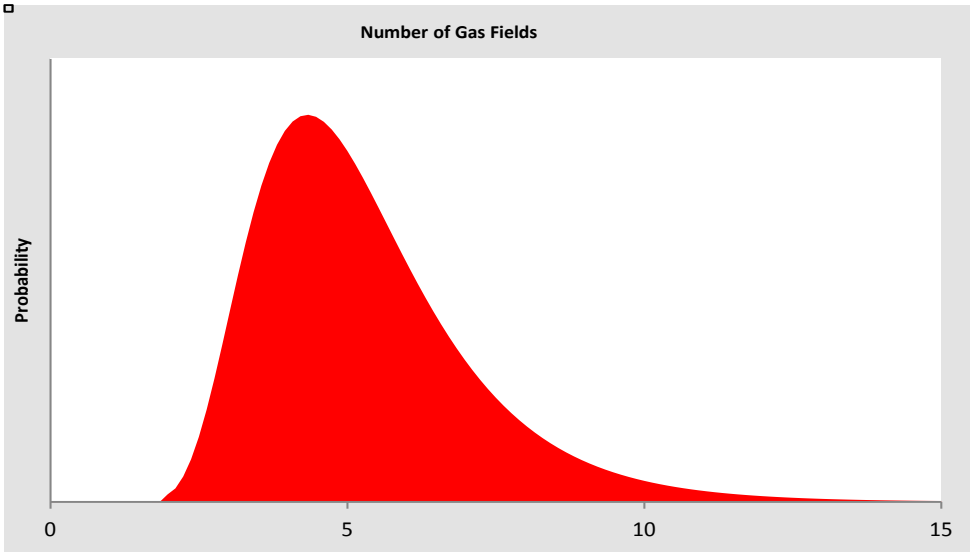
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.99	27.05
Median	24.97	24.99
Mode	---	---
Standard Deviation	10.17	10.21
Variance	103.43	104.25
Skewness	1.33	1.31
Kurtosis	5.63	5.52
Coefficient of Variability	0.3768	0.3775
Minimum	7.56	5.00
Maximum	84.83	85.00
Range Width	77.27	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	7.56	5.00
95%	14.58	14.56
90%	16.25	16.25
85%	17.56	17.56
80%	18.69	18.71
75%	19.75	19.77
70%	20.77	20.80
65%	21.79	21.82
60%	22.86	22.84
55%	23.85	23.89
50%	24.97	24.99
45%	26.11	26.15
40%	27.32	27.39
35%	28.67	28.76
30%	30.21	30.28
25%	31.91	32.04
20%	34.03	34.14
15%	36.62	36.79
10%	40.22	40.46
5%	46.51	46.66
0%	84.83	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



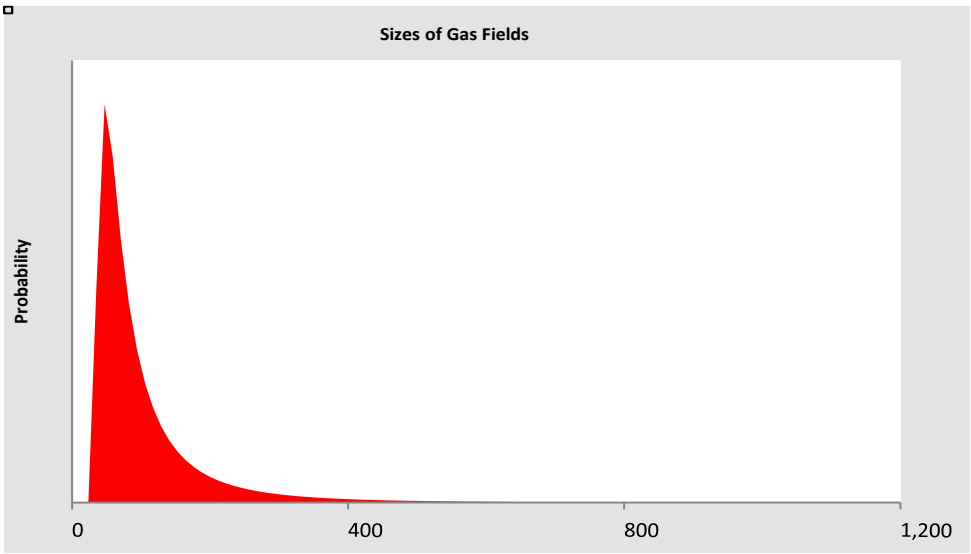
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.33	5.33
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.79	1.80
Variance	3.20	3.24
Skewness	1.15	1.17
Kurtosis	4.96	4.99
Coefficient of Variability	0.3355	0.3376
Minimum	1.61	1.00
Maximum	14.97	15.00
Range Width	13.36	14.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.61	1.00
95%	3.06	3.05
90%	3.39	3.38
85%	3.64	3.63
80%	3.85	3.84
75%	4.05	4.04
70%	4.24	4.23
65%	4.43	4.42
60%	4.62	4.61
55%	4.80	4.80
50%	5.00	5.00
45%	5.21	5.21
40%	5.43	5.43
35%	5.68	5.67
30%	5.95	5.94
25%	6.26	6.25
20%	6.63	6.62
15%	7.07	7.08
10%	7.70	7.71
5%	8.72	8.76
0%	14.97	15.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	74.99	104.99
Standard Deviation	110.92	110.92
Selected range is from -Infinity to 1,170.00		30.00 to 1,200.00



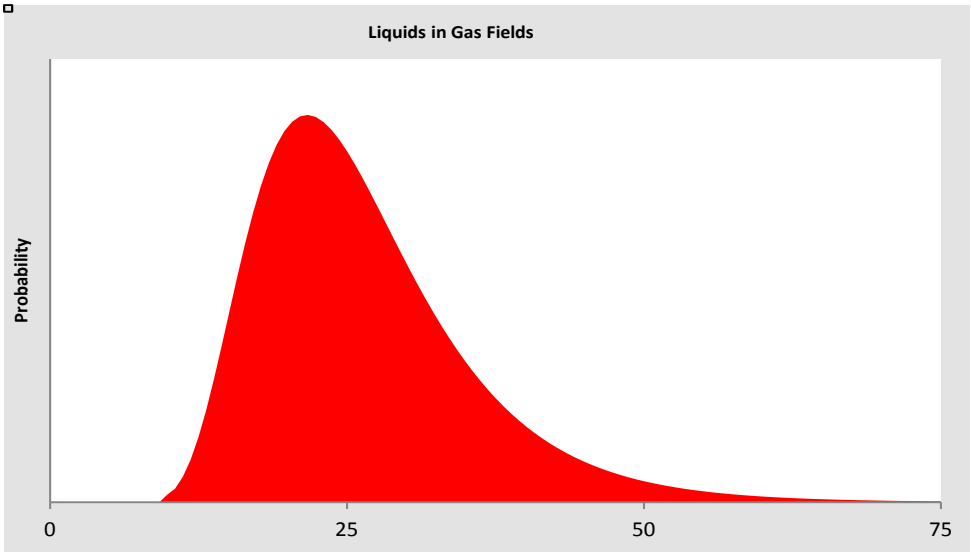
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	103.01	103.41
Median	71.97	71.94
Mode	---	---
Standard Deviation	95.69	97.09
Variance	9,157.25	9,425.58
Skewness	3.93	3.94
Kurtosis	26.55	26.13
Coefficient of Variability	0.93	0.94
Minimum	30.54	30.00
Maximum	1,198.85	1,200.00
Range Width	1,168.31	1,170.00
Mean Standard Error	0.43	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.54	30.00
95%	37.18	37.14
90%	40.62	40.56
85%	43.83	43.75
80%	47.12	46.96
75%	50.50	50.30
70%	54.01	53.86
65%	57.94	57.71
60%	62.13	61.94
55%	66.77	66.64
50%	71.97	71.94
45%	77.98	78.01
40%	85.03	85.08
35%	93.21	93.48
30%	103.12	103.71
25%	115.45	116.61
20%	132.70	133.63
15%	156.31	157.70
10%	196.17	196.01
5%	275.36	274.42
0%	1,198.85	1,200.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	21.71	26.71
Standard Deviation	9.18	9.18
Selected range is from -Infinity to 70.00		5.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.64	26.66
Median	24.97	24.99
Mode	---	---
Standard Deviation	8.99	9.00
Variance	80.83	80.97
Skewness	1.14	1.17
Kurtosis	4.84	4.99
Coefficient of Variability	0.3375	0.3376
Minimum	8.54	5.00
Maximum	74.91	75.00
Range Width	66.37	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.54	5.00
95%	15.26	15.26
90%	16.82	16.89
85%	18.11	18.13
80%	19.21	19.21
75%	20.21	20.21
70%	21.16	21.16
65%	22.10	22.10
60%	23.02	23.04
55%	23.98	24.00
50%	24.97	24.99
45%	26.01	26.03
40%	27.12	27.15
35%	28.33	28.36
30%	29.67	29.72
25%	31.25	31.26
20%	33.08	33.10
15%	35.44	35.40
10%	38.53	38.56
5%	43.82	43.82
0%	74.91	75.00

End of Assumptions

Simulation started on 7/30/2010 at 1:05 PM
Simulation stopped on 7/30/2010 at 1:43 PM