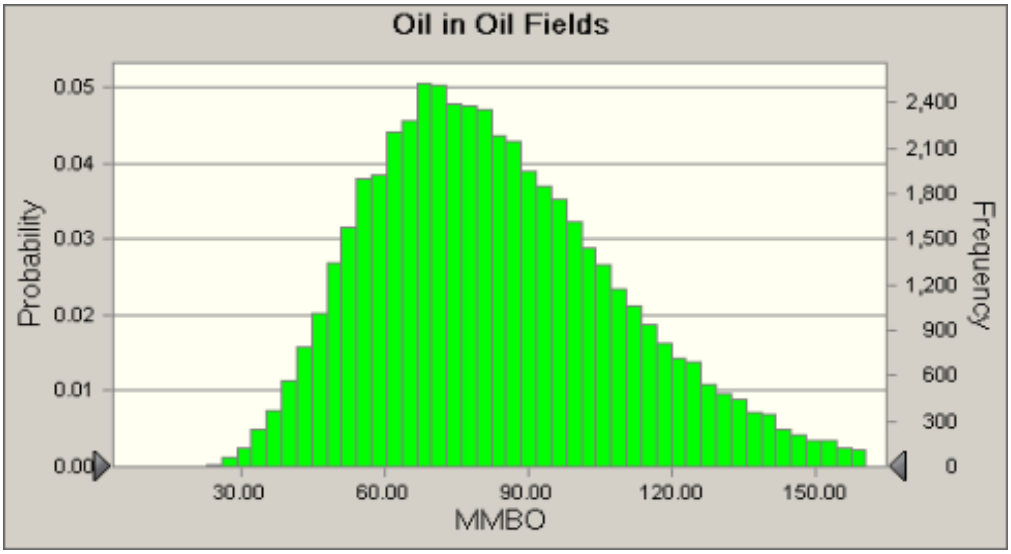
Forecast: Oil in Oil Fields

Summary:
Entire range is from 4.51 to 269.62
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.12



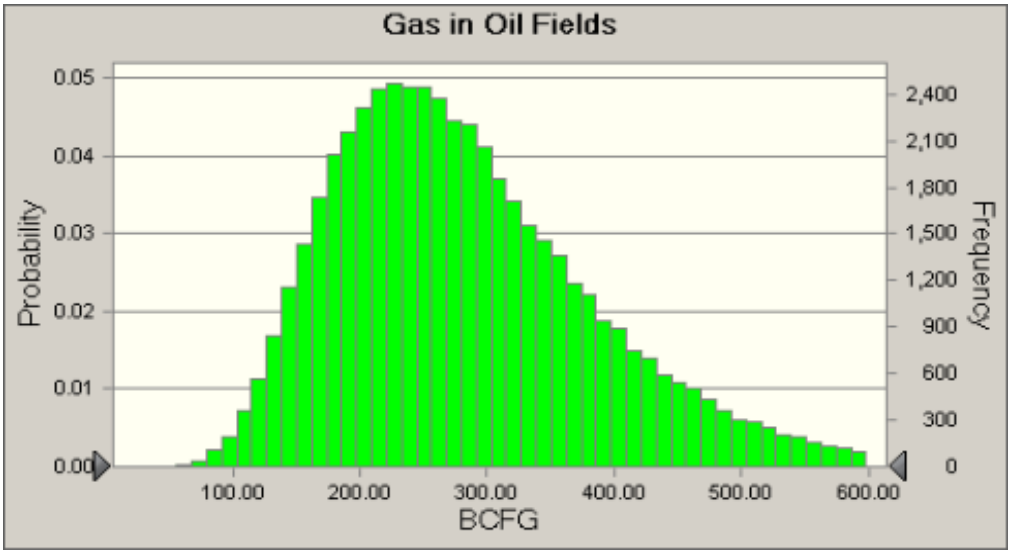
Statistics:	Forecast values
Trials	50,000
Mean	83.89
Median	80.25
Mode	---
Standard Deviation	27.37
Variance	749.18
Skewness	0.7929
Kurtosis	3.99
Coefficient of Variability	0.3263
Minimum	4.51
Maximum	269.62
Range Width	265.10
Mean Standard Error	0.12

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	4.51
95%	45.94
90%	52.01
85%	56.53
80%	60.51
75%	64.09
70%	67.48
65%	70.50
60%	73.63
55%	76.97
50%	80.25
45%	83.62
40%	87.31
35%	91.16
30%	95.35
25%	100.00
20%	105.27
15%	111.82
10%	120.60
5%	134.13
0%	269.62

Forecast: Gas in Oil Fields

Summary:
Entire range is from 20.34 to 1,229.13
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.50



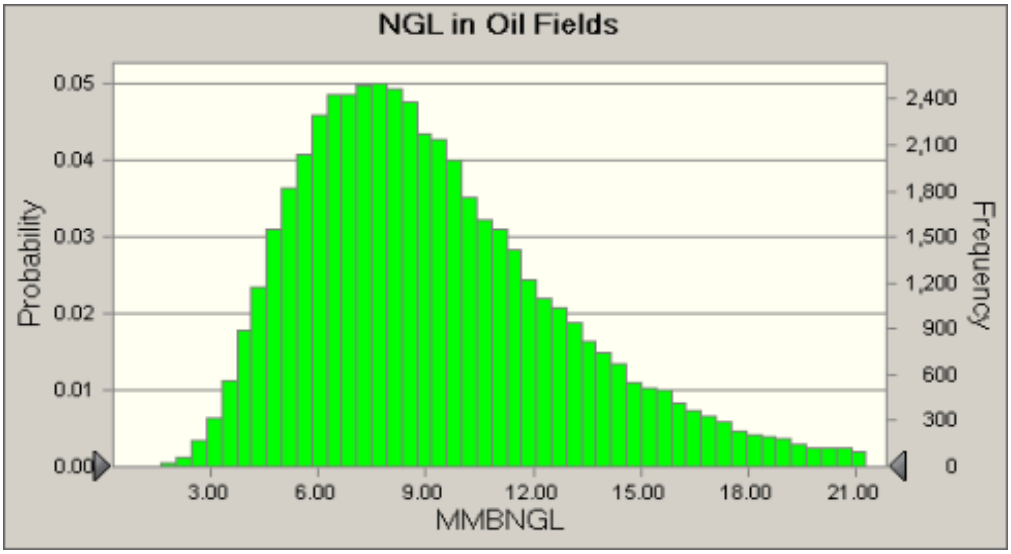
Statistics:	Forecast values
Trials	50,000
Mean	286.12
Median	267.27
Mode	---
Standard Deviation	111.33
Variance	12,394.36
Skewness	1.17
Kurtosis	5.50
Coefficient of Variability	0.3891
Minimum	20.34
Maximum	1,229.13
Range Width	1,208.79
Mean Standard Error	0.50

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	20.34
95%	141.99
90%	163.85
85%	179.65
80%	193.98
75%	206.65
70%	218.97
65%	230.95
60%	243.06
55%	254.93
50%	267.27
45%	280.64
40%	294.03
35%	308.99
30%	325.77
25%	344.91
20%	366.72
15%	394.77
10%	431.85
5%	492.41
0%	1,229.13

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.79 to 64.21
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



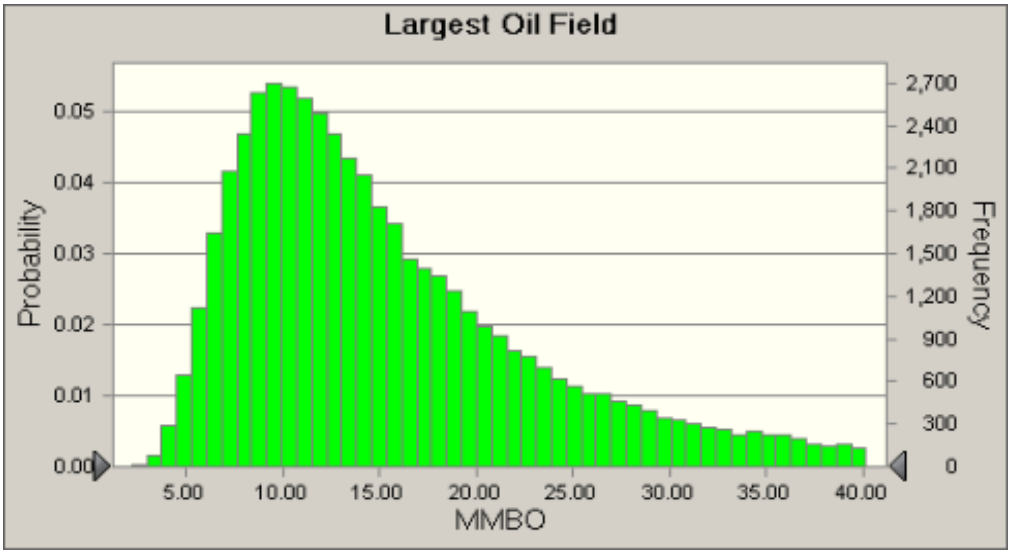
Statistics:	Forecast values
Trials	50,000
Mean	9.44
Median	8.63
Mode	---
Standard Deviation	4.22
Variance	17.85
Skewness	1.60
Kurtosis	8.53
Coefficient of Variability	0.4474
Minimum	0.79
Maximum	64.21
Range Width	63.42
Mean Standard Error	0.02

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.79
95%	4.32
90%	5.03
85%	5.58
80%	6.06
75%	6.50
70%	6.93
65%	7.35
60%	7.78
55%	8.19
50%	8.63
45%	9.10
40%	9.59
35%	10.13
30%	10.75
25%	11.44
20%	12.29
15%	13.33
10%	14.78
5%	17.21
0%	64.21

Forecast: Largest Oil Field

Summary:
Entire range is from 2.15 to 49.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.04



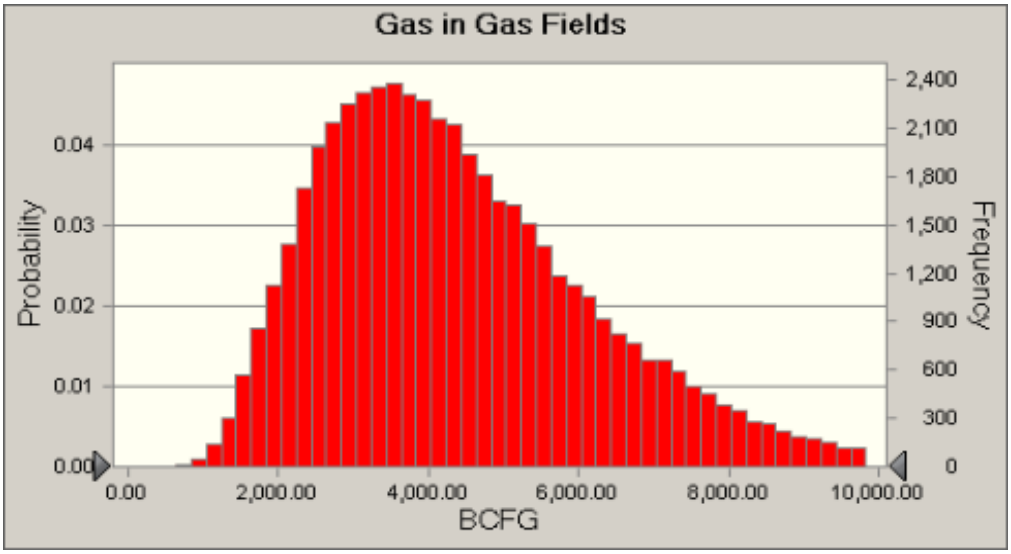
Statistics:	Forecast values
Trials	50,000
Mean	15.86
Median	13.50
Mode	---
Standard Deviation	8.68
Variance	75.41
Skewness	1.35
Kurtosis	4.73
Coefficient of Variability	0.5475
Minimum	2.15
Maximum	49.99
Range Width	47.84
Mean Standard Error	0.04

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	2.15
95%	6.22
90%	7.27
85%	8.15
80%	8.90
75%	9.61
70%	10.33
65%	11.07
60%	11.84
55%	12.66
50%	13.50
45%	14.43
40%	15.47
35%	16.71
30%	18.10
25%	19.69
20%	21.70
15%	24.36
10%	28.09
5%	34.37
0%	49.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 48.77 to 18,973.83
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.59



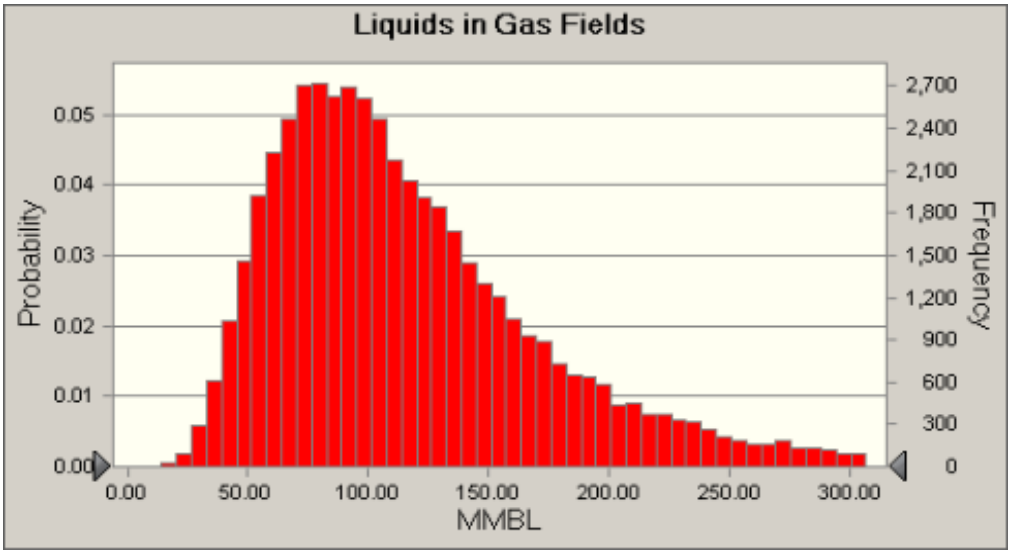
Statistics:	Forecast values
Trials	50,000
Mean	4,453.40
Median	4,114.75
Mode	---
Standard Deviation	1,920.68
Variance	3,689,014.13
Skewness	1.02
Kurtosis	4.54
Coefficient of Variability	0.4313
Minimum	48.77
Maximum	18,973.83
Range Width	18,925.06
Mean Standard Error	8.59

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	48.77
95%	1,956.54
90%	2,315.02
85%	2,580.59
80%	2,818.03
75%	3,041.22
70%	3,255.89
65%	3,467.43
60%	3,680.00
55%	3,895.26
50%	4,114.74
45%	4,349.54
40%	4,600.05
35%	4,874.64
30%	5,178.41
25%	5,513.15
20%	5,917.52
15%	6,411.97
10%	7,072.72
5%	8,054.68
0%	18,973.83

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.66 to 1,012.34
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.30



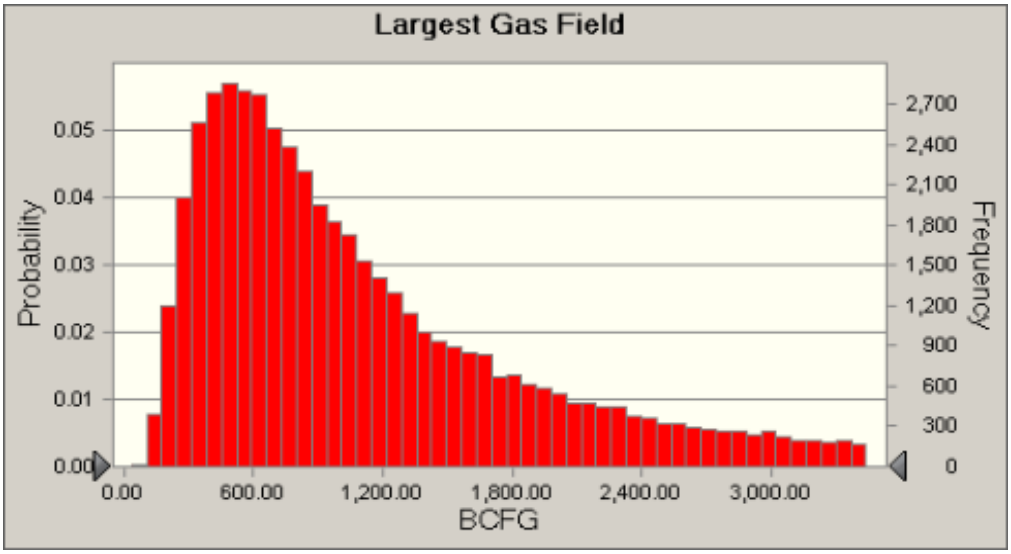
Statistics:	Forecast values
Trials	50,000
Mean	120.33
Median	105.05
Mode	---
Standard Deviation	66.52
Variance	4,425.48
Skewness	2.16
Kurtosis	12.43
Coefficient of Variability	0.5529
Minimum	1.66
Maximum	1,012.34
Range Width	1,010.67
Mean Standard Error	0.30

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.66
95%	47.37
90%	56.37
85%	63.44
80%	69.82
75%	75.64
70%	81.32
65%	87.15
60%	93.03
55%	98.85
50%	105.05
45%	111.87
40%	119.41
35%	127.66
30%	136.34
25%	146.91
20%	159.93
15%	176.52
10%	200.65
5%	242.98
0%	1,012.34

Forecast: Largest Gas Field

Summary:
Entire range is from 33.82 to 3,999.18
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.67



Statistics:	Forecast values
Trials	50,000
Mean	1,141.40
Median	886.43
Mode	---
Standard Deviation	820.92
Variance	673,917.27
Skewness	1.31
Kurtosis	4.23
Coefficient of Variability	0.7192
Minimum	33.82
Maximum	3,999.18
Range Width	3,965.36
Mean Standard Error	3.67

Forecast: Largest Gas Field (continued)

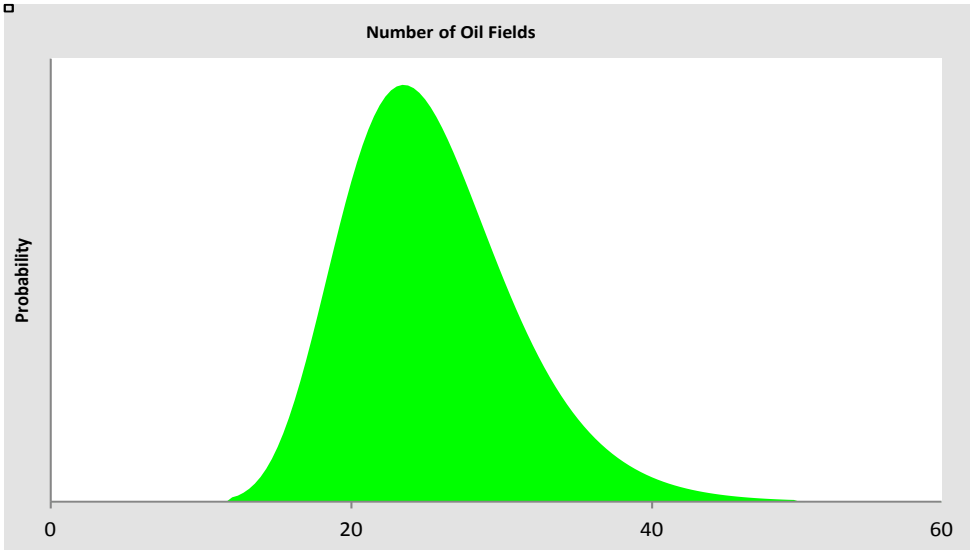
Percentiles:	BCFG
100%	33.82
95%	276.51
90%	350.24
85%	415.27
80%	476.64
75%	537.47
70%	599.06
65%	662.26
60%	731.90
55%	805.12
50%	886.41
45%	977.50
40%	1,077.81
35%	1,194.24
30%	1,331.90
25%	1,508.53
20%	1,715.09
15%	1,993.49
10%	2,367.73
5%	2,959.22
0%	3,999.18

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	24.65	25.65
Standard Deviation	5.77	5.77
Selected range is from -Infinity to 49.00		1.00 to 50.00



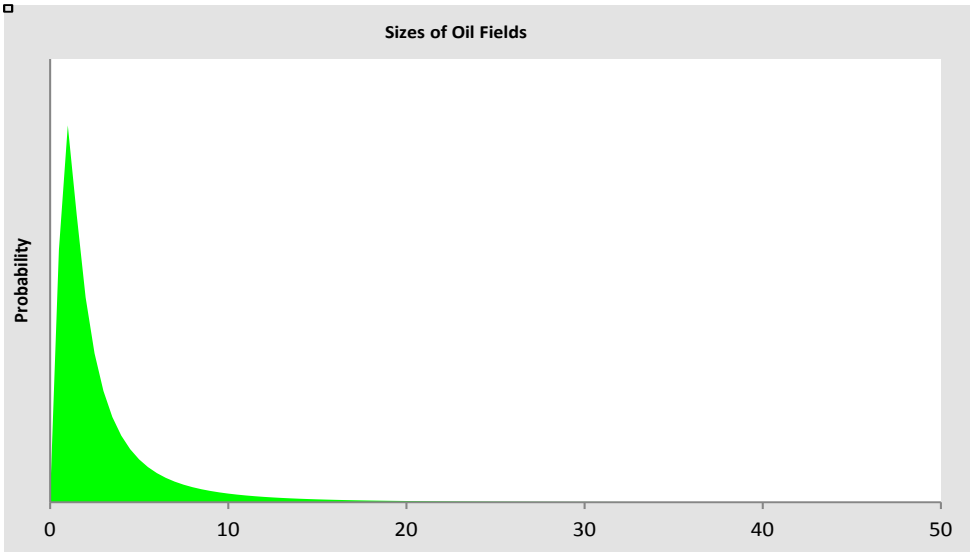
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	25.59	25.62
Median	24.94	24.99
Mode	---	---
Standard Deviation	5.72	5.71
Variance	32.77	32.55
Skewness	0.6732	0.6353
Kurtosis	3.57	3.51
Coefficient of Variability	0.2237	0.2227
Minimum	10.16	1.00
Maximum	49.99	50.00
Range Width	39.83	49.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.16	1.00
95%	17.43	17.41
90%	18.89	18.85
85%	19.89	19.89
80%	20.73	20.76
75%	21.49	21.53
70%	22.22	22.26
65%	22.90	22.95
60%	23.57	23.63
55%	24.25	24.31
50%	24.94	24.99
45%	25.63	25.70
40%	26.36	26.44
35%	27.13	27.22
30%	28.00	28.08
25%	28.95	29.03
20%	30.05	30.13
15%	31.46	31.47
10%	33.24	33.23
5%	36.11	36.02
0%	49.99	50.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.5
Mean	2.85	3.35
Standard Deviation	4.59	4.59
Selected range is from -Infinity to 49.50		0.50 to 50.00



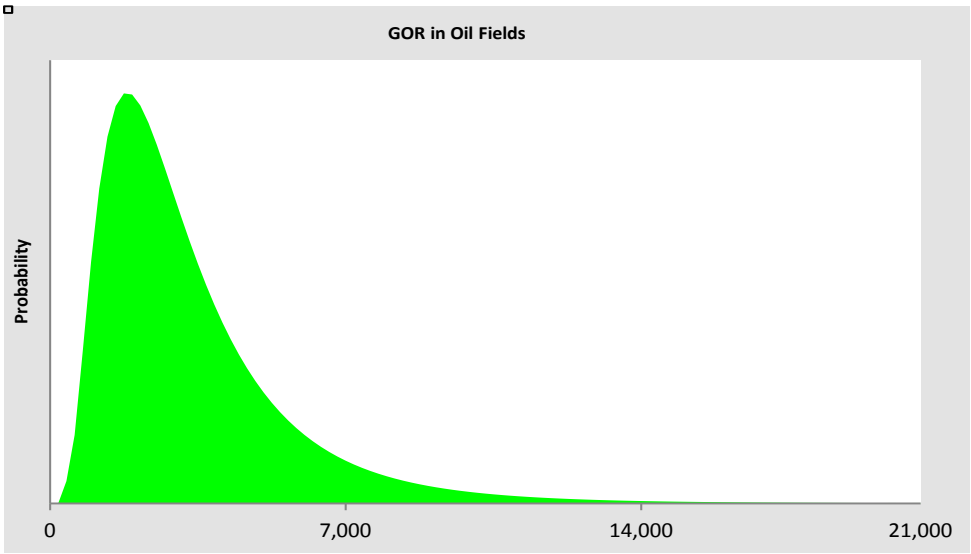
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3.26	3.28
Median	1.98	2.00
Mode	---	---
Standard Deviation	3.90	3.94
Variance	15.21	15.50
Skewness	4.20	4.23
Kurtosis	29.21	29.55
Coefficient of Variability	1.20	1.20
Minimum	0.51	0.50
Maximum	49.84	50.00
Range Width	49.33	49.50
Mean Standard Error	0.02	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.51	0.50
95%	0.73	0.73
90%	0.85	0.85
85%	0.97	0.96
80%	1.08	1.08
75%	1.20	1.20
70%	1.33	1.33
65%	1.47	1.47
60%	1.63	1.62
55%	1.80	1.80
50%	1.98	2.00
45%	2.22	2.23
40%	2.48	2.49
35%	2.81	2.82
30%	3.19	3.21
25%	3.70	3.71
20%	4.35	4.38
15%	5.31	5.33
10%	6.87	6.86
5%	9.96	10.05
0%	49.84	50.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	95
Mean	3,332.44	3,427.44
Standard Deviation	2,397.76	2,397.76
Selected range is from -Infinity to 19,905.00		95.00 to 20,000.00



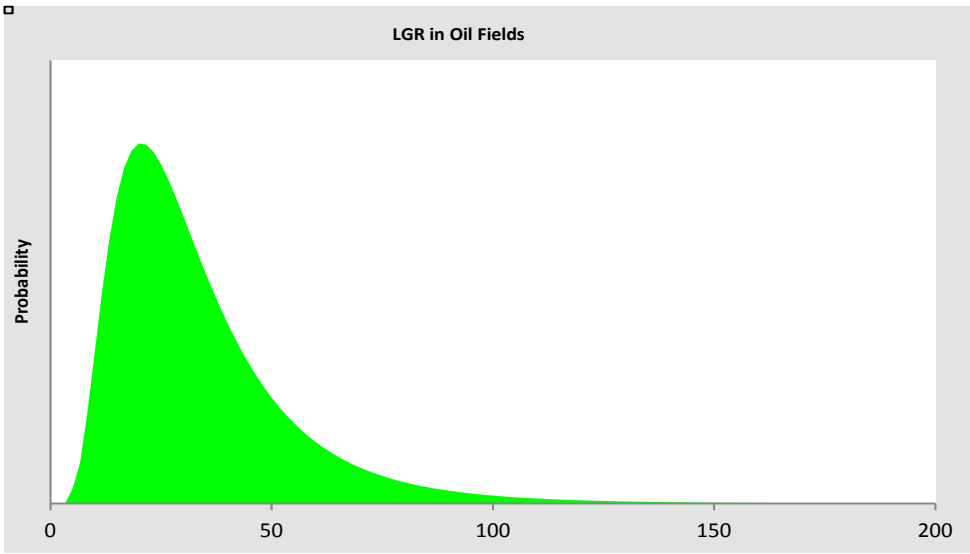
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,411.09	3,406.54
Median	2,813.17	2,797.81
Mode	---	---
Standard Deviation	2,298.36	2,301.45
Variance	5,282,473.19	5,296,684.86
Skewness	2.01	2.00
Kurtosis	9.04	9.06
Coefficient of Variability	0.6738	0.6756
Minimum	261.42	95.00
Maximum	19,993.21	20,000.00
Range Width	19,731.79	19,905.00
Mean Standard Error	10.28	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	261.42	95.00
95%	1,034.10	1,029.59
90%	1,279.88	1,276.71
85%	1,485.49	1,479.36
80%	1,670.19	1,664.92
75%	1,852.05	1,843.80
70%	2,033.55	2,021.74
65%	2,214.94	2,202.72
60%	2,400.89	2,390.14
55%	2,593.01	2,587.29
50%	2,813.13	2,797.81
45%	3,034.72	3,026.08
40%	3,286.02	3,277.73
35%	3,566.02	3,560.48
30%	3,893.73	3,885.58
25%	4,279.78	4,270.52
20%	4,739.30	4,745.02
15%	5,349.14	5,365.87
10%	6,247.03	6,264.19
5%	7,852.54	7,875.52
0%	19,993.21	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.3
Mean	32.90	33.2
Standard Deviation	21.09	21.09
Selected range is from -Infinity to 169.70		0.30 to 170.00



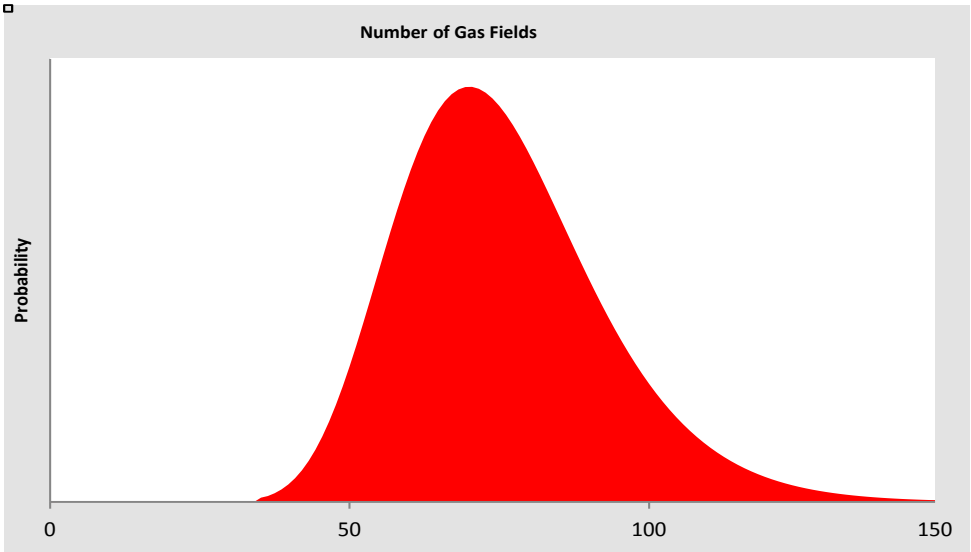
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	33.18	33.03
Median	28.13	27.98
Mode	---	---
Standard Deviation	20.57	20.37
Variance	423.17	415.04
Skewness	1.80	1.78
Kurtosis	7.89	7.78
Coefficient of Variability	0.6200	0.6168
Minimum	2.35	0.30
Maximum	169.13	170.00
Range Width	166.78	169.70
Mean Standard Error	0.09	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.35	0.30
95%	10.78	10.85
90%	13.31	13.36
85%	15.33	15.38
80%	17.17	17.20
75%	18.96	18.94
70%	20.71	20.65
65%	22.45	22.38
60%	24.31	24.16
55%	26.19	26.01
50%	28.13	27.98
45%	30.27	30.09
40%	32.65	32.41
35%	35.15	34.99
30%	38.08	37.93
25%	41.58	41.39
20%	45.74	45.61
15%	51.31	51.07
10%	59.15	58.87
5%	72.64	72.61
0%	169.13	170.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	75.92	76.92
Standard Deviation	17.42	17.42
Selected range is from -Infinity to 149.00		1.00 to 150.00



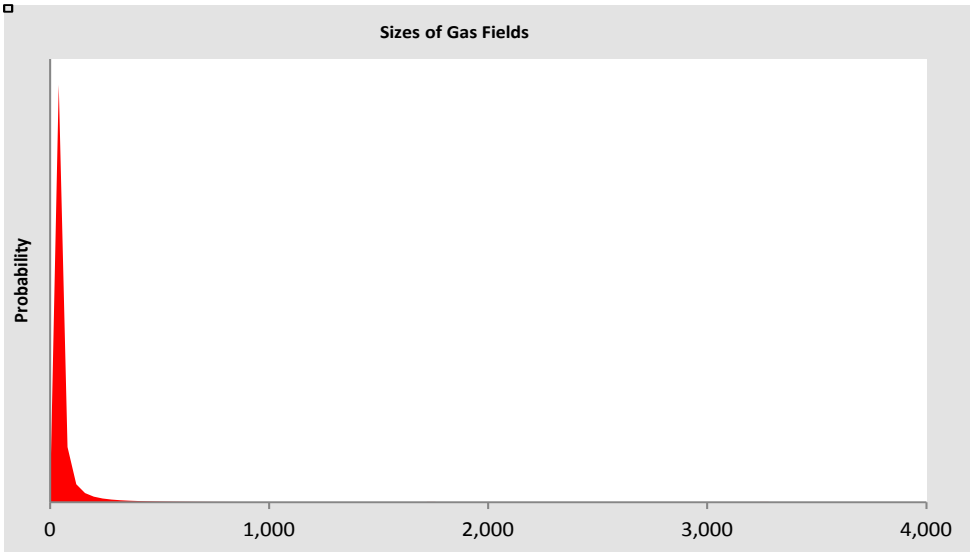
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	76.89	76.84
Median	75.00	74.98
Mode	---	---
Standard Deviation	17.39	17.23
Variance	302.46	296.75
Skewness	0.6394	0.6221
Kurtosis	3.50	3.48
Coefficient of Variability	0.2262	0.2242
Minimum	28.94	1.00
Maximum	149.83	150.00
Range Width	120.89	149.00
Mean Standard Error	0.08	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	28.94	1.00
95%	52.00	51.98
90%	56.29	56.35
85%	59.37	59.51
80%	61.98	62.15
75%	64.41	64.50
70%	66.61	66.70
65%	68.76	68.80
60%	70.82	70.86
55%	72.87	72.90
50%	75.00	74.98
45%	77.12	77.11
40%	79.32	79.34
35%	81.67	81.72
30%	84.26	84.29
25%	87.18	87.17
20%	90.64	90.48
15%	94.79	94.50
10%	100.14	99.81
5%	108.63	108.18
0%	149.83	150.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	3
Mean	63.01	66.01
Standard Deviation	436.60	436.6
Selected range is from -Infinity to 3,997.00		3.00 to 4,000.00



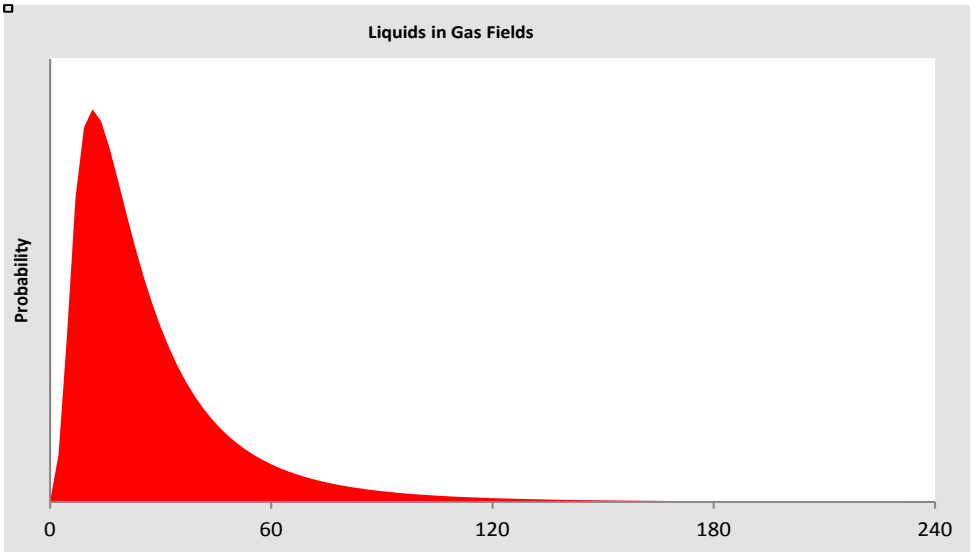
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	58.16	59.42
Median	12.10	11.98
Mode	---	---
Standard Deviation	188.74	187.17
Variance	35,622.34	35,030.85
Skewness	9.34	9.57
Kurtosis	121.73	128.15
Coefficient of Variability	3.25	3.15
Minimum	3.00	3.00
Maximum	3,960.81	4,000.00
Range Width	3,957.81	3,997.00
Mean Standard Error	0.84	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.00	3.00
95%	3.35	3.35
90%	3.72	3.72
85%	4.15	4.16
80%	4.67	4.71
75%	5.32	5.38
70%	6.13	6.19
65%	7.18	7.20
60%	8.47	8.45
55%	10.07	10.01
50%	12.10	11.98
45%	14.64	14.50
40%	17.93	17.79
35%	22.47	22.18
30%	28.41	28.22
25%	37.03	36.89
20%	50.32	50.09
15%	71.88	72.04
10%	115.65	114.66
5%	228.32	229.83
0%	3,960.81	4,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.1
Mean	27.23	27.33
Standard Deviation	25.43	25.43
Selected range is from -Infinity to 229.90		0.10 to 230.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.11	27.06
Median	20.10	19.98
Mode	---	---
Standard Deviation	23.84	23.89
Variance	568.19	570.78
Skewness	2.59	2.59
Kurtosis	13.15	13.15
Coefficient of Variability	0.8792	0.8828
Minimum	0.84	0.10
Maximum	225.33	230.00
Range Width	224.49	229.90
Mean Standard Error	0.11	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.84	0.10
95%	5.51	5.51
90%	7.31	7.31
85%	8.89	8.85
80%	10.37	10.31
75%	11.78	11.76
70%	13.22	13.23
65%	14.81	14.76
60%	16.53	16.37
55%	18.28	18.10
50%	20.10	19.98
45%	22.16	22.06
40%	24.48	24.39
35%	27.13	27.06
30%	30.24	30.20
25%	34.09	33.98
20%	38.89	38.76
15%	45.39	45.19
10%	55.13	54.78
5%	72.27	72.78
0%	225.33	230.00

End of Assumptions

Simulation started on 12/9/2010 at 8:51 AM
Simulation stopped on 12/9/2010 at 9:20 AM