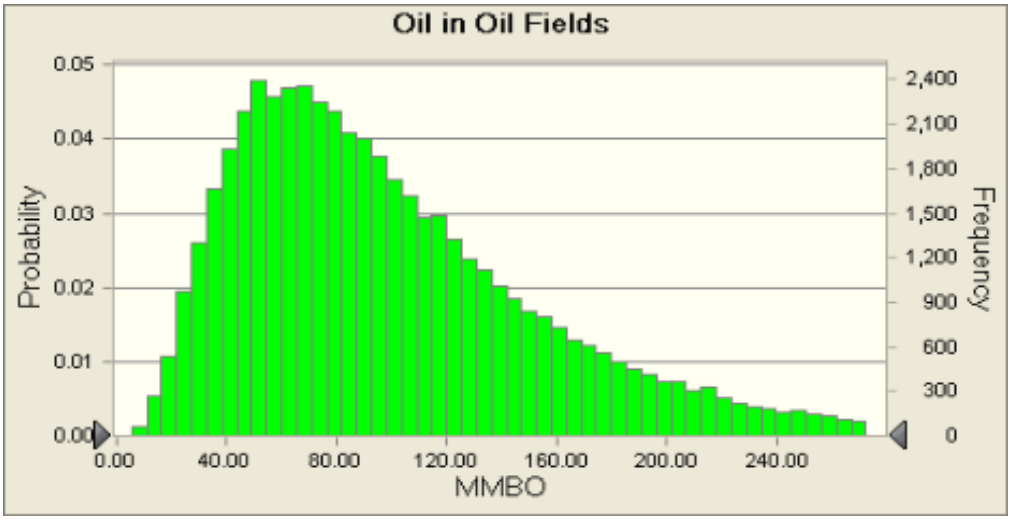
60990201
Southwest Maracaibo Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 5.39 to 748.58
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.27



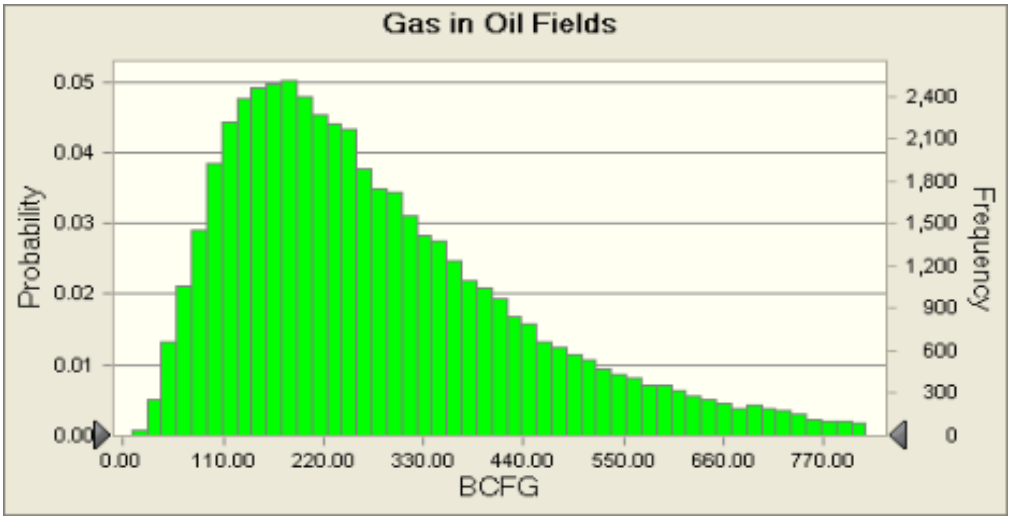
Statistics:	Forecast values
Trials	50,000
Mean	101.62
Median	87.81
Mode	---
Standard Deviation	61.02
Variance	3,723.45
Skewness	1.40
Kurtosis	5.96
Coefficient of Variability	0.6005
Minimum	5.39
Maximum	748.58
Range Width	743.19
Mean Standard Error	0.27

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	5.39
95%	30.23
90%	38.76
85%	45.56
80%	51.44
75%	57.34
70%	63.20
65%	68.99
60%	74.96
55%	81.16
50%	87.81
45%	94.70
40%	102.17
35%	110.82
30%	120.06
25%	130.93
20%	144.06
15%	160.65
10%	183.47
5%	219.97
0%	748.58

Forecast: Gas in Oil Fields

Summary:
Entire range is from 8.63 to 2,453.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.84



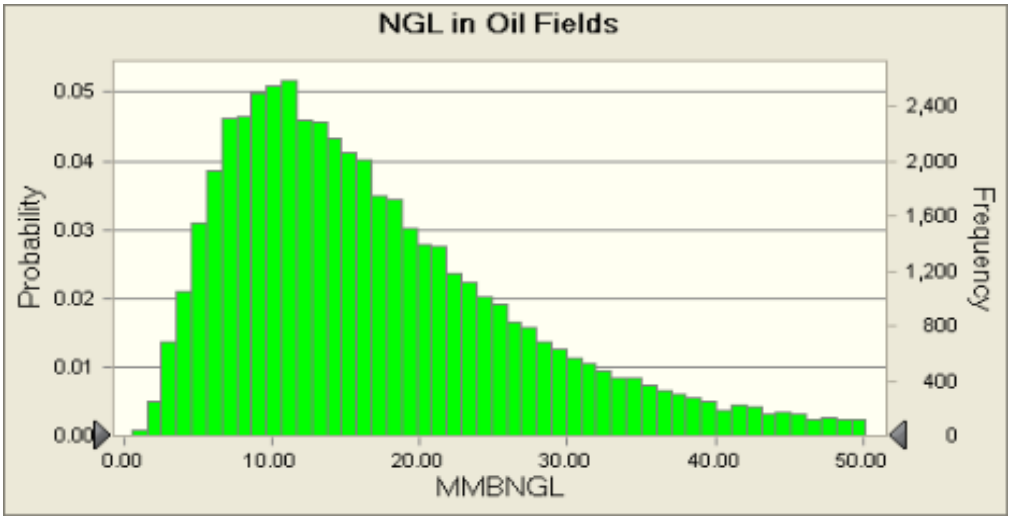
Statistics:	Forecast values
Trials	50,000
Mean	290.31
Median	244.57
Mode	---
Standard Deviation	188.11
Variance	35,384.86
Skewness	1.67
Kurtosis	7.65
Coefficient of Variability	0.6480
Minimum	8.63
Maximum	2,453.07
Range Width	2,444.44
Mean Standard Error	0.84

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	8.63
95%	80.48
90%	104.41
85%	123.40
80%	140.54
75%	157.33
70%	173.93
65%	190.32
60%	207.70
55%	225.85
50%	244.55
45%	264.89
40%	287.89
35%	312.45
30%	341.12
25%	373.14
20%	412.52
15%	462.26
10%	536.11
5%	657.49
0%	2,453.07

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.46 to 149.89
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.05



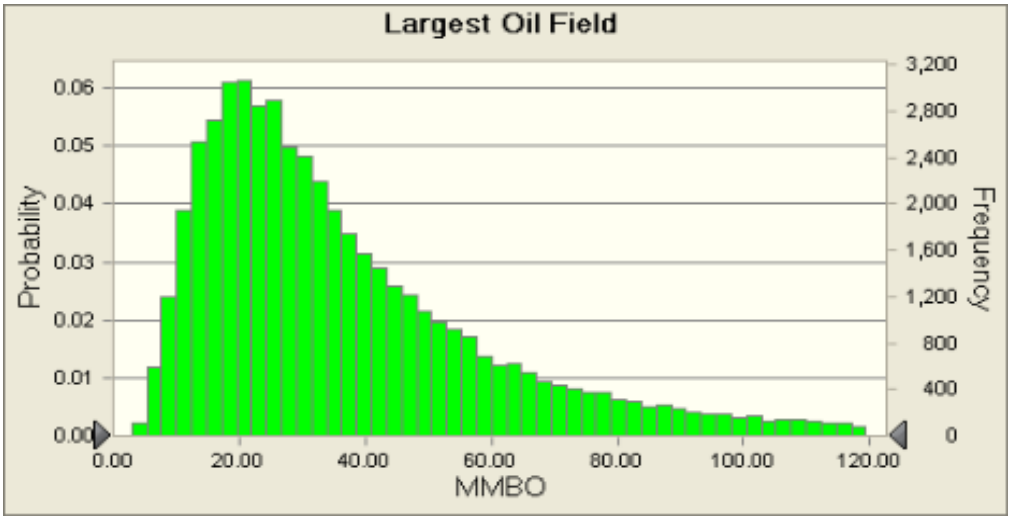
Statistics:	Forecast values
Trials	50,000
Mean	17.72
Median	14.91
Mode	---
Standard Deviation	11.61
Variance	134.71
Skewness	1.71
Kurtosis	7.89
Coefficient of Variability	0.6549
Minimum	0.46
Maximum	149.89
Range Width	149.44
Mean Standard Error	0.05

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.46
95%	4.87
90%	6.31
85%	7.45
80%	8.52
75%	9.54
70%	10.54
65%	11.52
60%	12.62
55%	13.72
50%	14.91
45%	16.15
40%	17.52
35%	19.04
30%	20.80
25%	22.79
20%	25.20
15%	28.31
10%	32.81
5%	40.46
0%	149.89

Forecast: Largest Oil Field

Summary:
Entire range is from 2.71 to 199.94
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.13



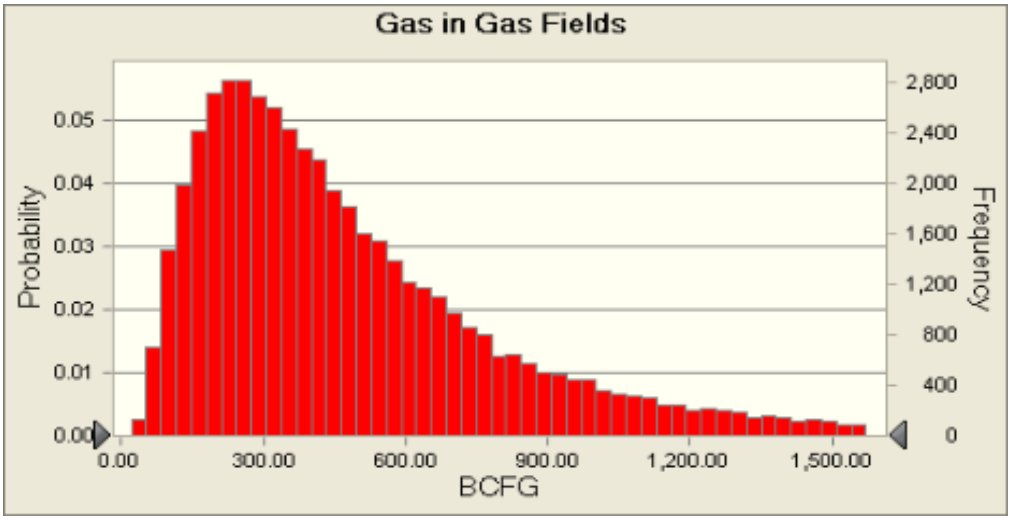
Statistics:	Forecast values
Trials	50,000
Mean	38.88
Median	30.42
Mode	---
Standard Deviation	28.81
Variance	829.79
Skewness	2.00
Kurtosis	8.14
Coefficient of Variability	0.7408
Minimum	2.71
Maximum	199.94
Range Width	197.23
Mean Standard Error	0.13

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	2.71
95%	10.71
90%	13.37
85%	15.62
80%	17.74
75%	19.68
70%	21.62
65%	23.66
60%	25.72
55%	27.98
50%	30.42
45%	33.08
40%	36.10
35%	39.65
30%	43.71
25%	48.53
20%	54.54
15%	62.80
10%	75.18
5%	97.64
0%	199.94

Forecast: Gas in Gas Fields

Summary:
Entire range is from 21.46 to 4,282.60
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.70



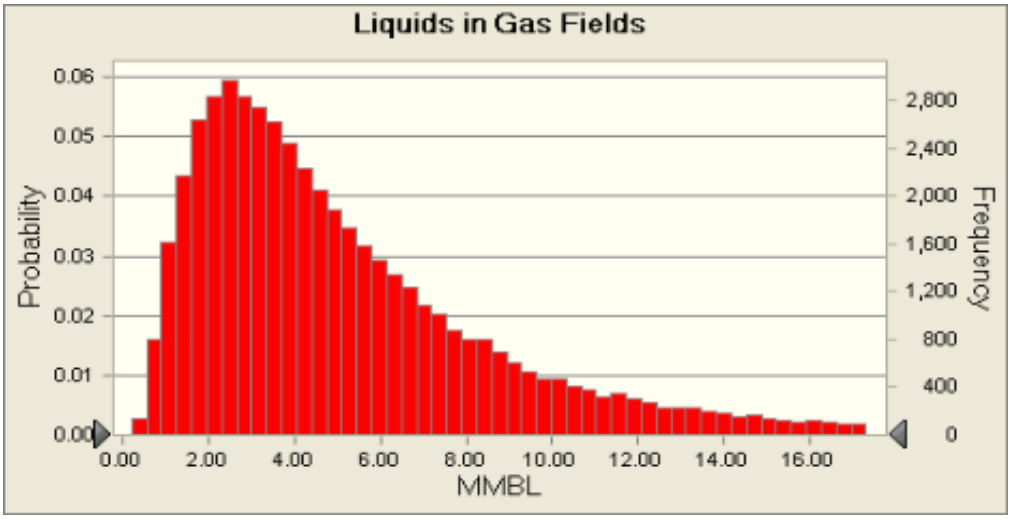
Statistics:	Forecast values
Trials	50,000
Mean	505.50
Median	400.98
Mode	---
Standard Deviation	380.87
Variance	145,061.81
Skewness	2.00
Kurtosis	8.88
Coefficient of Variability	0.7535
Minimum	21.46
Maximum	4,282.60
Range Width	4,261.15
Mean Standard Error	1.70

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	21.46
95%	119.79
90%	157.49
85%	189.34
80%	217.89
75%	245.77
70%	274.29
65%	303.83
60%	334.27
55%	366.37
50%	400.95
45%	437.68
40%	478.21
35%	526.90
30%	580.32
25%	644.51
20%	720.92
15%	829.09
10%	982.41
5%	1,263.92
0%	4,282.60

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.19 to 56.34
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



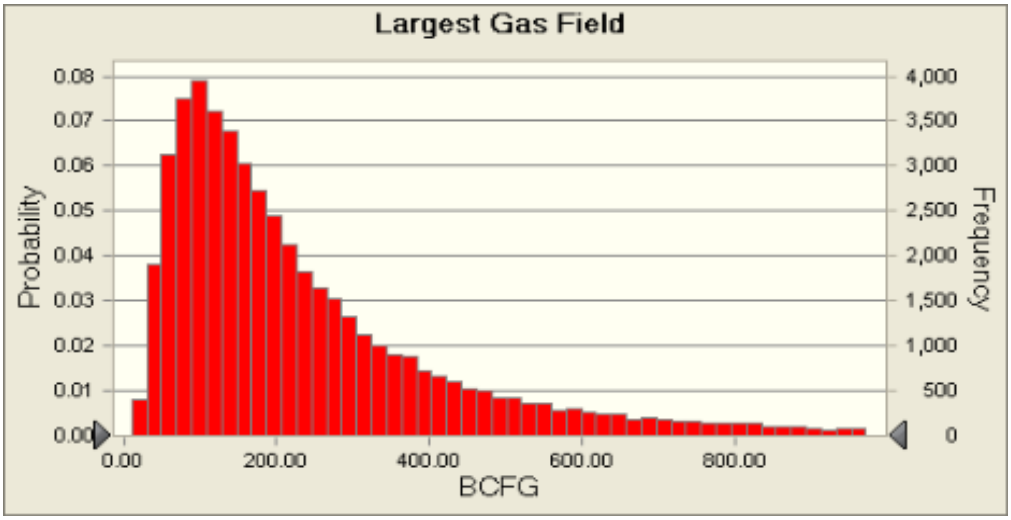
Statistics:	Forecast values
Trials	50,000
Mean	5.41
Median	4.22
Mode	---
Standard Deviation	4.26
Variance	18.11
Skewness	2.25
Kurtosis	11.15
Coefficient of Variability	0.7866
Minimum	0.19
Maximum	56.34
Range Width	56.15
Mean Standard Error	0.02

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.19
95%	1.23
90%	1.63
85%	1.96
80%	2.27
75%	2.57
70%	2.86
65%	3.18
60%	3.50
55%	3.85
50%	4.22
45%	4.63
40%	5.09
35%	5.60
30%	6.19
25%	6.88
20%	7.75
15%	8.87
10%	10.60
5%	13.69
0%	56.34

Forecast: Largest Gas Field

Summary:
Entire range is from 9.83 to 1,998.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.14



Statistics:	Forecast values
Trials	50,000
Mean	260.69
Median	179.95
Mode	---
Standard Deviation	253.96
Variance	64,496.28
Skewness	2.69
Kurtosis	12.61
Coefficient of Variability	0.9742
Minimum	9.83
Maximum	1,998.28
Range Width	1,988.45
Mean Standard Error	1.14

Forecast: Largest Gas Field (continued)

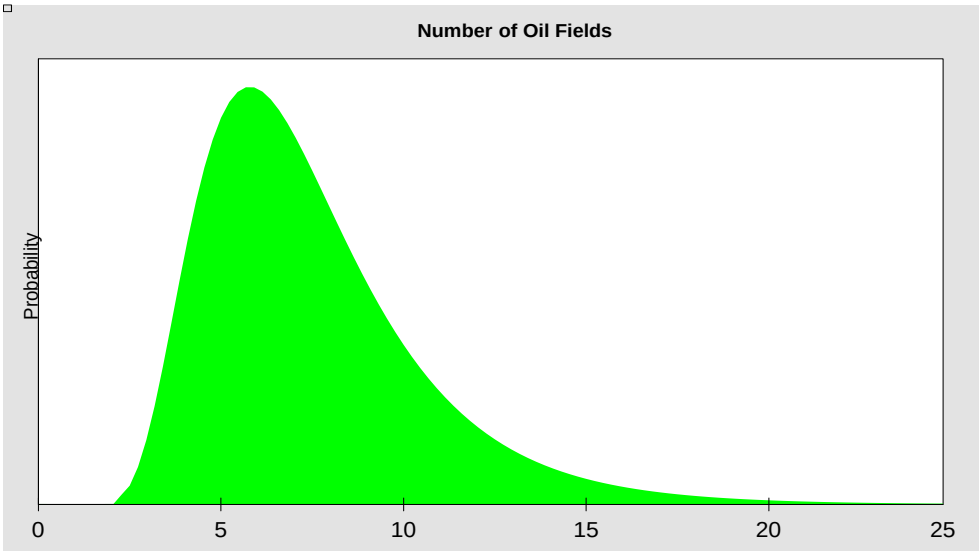
Percentiles:	BCFG
100%	9.83
95%	50.27
90%	66.12
85%	79.71
80%	91.97
75%	104.67
70%	118.18
65%	131.88
60%	146.46
55%	162.10
50%	179.95
45%	199.11
40%	221.35
35%	247.63
30%	278.03
25%	316.90
20%	368.07
15%	436.30
10%	545.06
5%	763.95
0%	1,998.28

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	6.64	7.64
Standard Deviation	3.13	3.13
Selected range is from -Infinity to 24.00		1.00 to 25.00



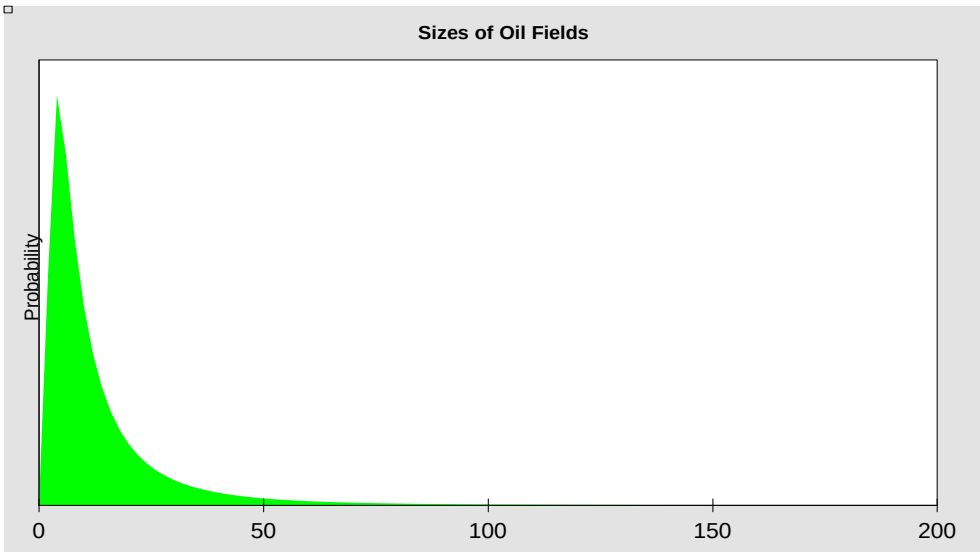
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	7.62	7.61
Median	6.99	7.00
Mode	---	---
Standard Deviation	3.08	3.06
Variance	9.48	9.38
Skewness	1.29	1.31
Kurtosis	5.44	5.52
Coefficient of Variability	0.4042	0.4023
Minimum	1.72	1.00
Maximum	24.92	25.00
Range Width	23.20	24.00
Mean Standard Error	0.01	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.72	1.00
95%	3.85	3.87
90%	4.36	4.38
85%	4.76	4.77
80%	5.10	5.11
75%	5.41	5.43
70%	5.73	5.74
65%	6.03	6.05
60%	6.34	6.35
55%	6.65	6.67
50%	6.99	7.00
45%	7.34	7.34
40%	7.73	7.72
35%	8.15	8.13
30%	8.63	8.58
25%	9.14	9.11
20%	9.77	9.74
15%	10.56	10.54
10%	11.67	11.64
5%	13.54	13.50
0%	24.92	25.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	12.59	13.59
Standard Deviation	18.81	18.81
Selected range is from -Infinity to 199.00		1.00 to 200.00



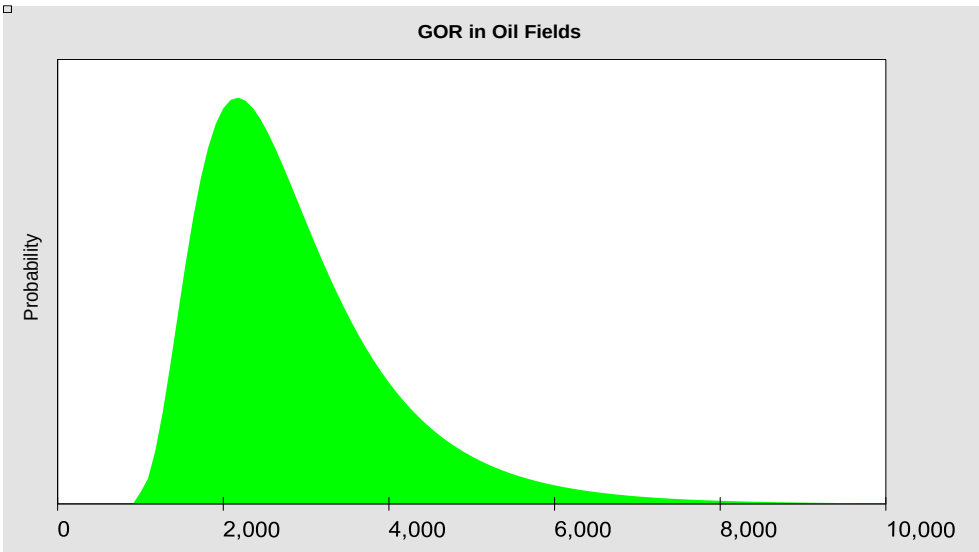
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	13.28	13.32
Median	7.98	7.99
Mode	---	---
Standard Deviation	16.27	16.43
Variance	264.56	269.90
Skewness	3.94	3.97
Kurtosis	26.01	26.52
Coefficient of Variability	1.22	1.23
Minimum	1.09	1.00
Maximum	196.07	200.00
Range Width	194.98	199.00
Mean Standard Error	0.07	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.09	1.00
95%	2.19	2.18
90%	2.76	2.75
85%	3.28	3.28
80%	3.81	3.81
75%	4.36	4.37
70%	4.96	4.96
65%	5.60	5.61
60%	6.30	6.31
55%	7.09	7.10
50%	7.98	7.99
45%	9.00	9.01
40%	10.20	10.20
35%	11.69	11.61
30%	13.37	13.33
25%	15.55	15.50
20%	18.51	18.37
15%	22.53	22.43
10%	28.70	28.90
5%	42.04	42.18
0%	196.07	200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	2,267.24	2,867.24
Standard Deviation	1,210.57	1,210.57
Selected range is from -Infinity to 9,400.00		600.00 to 10,000.00



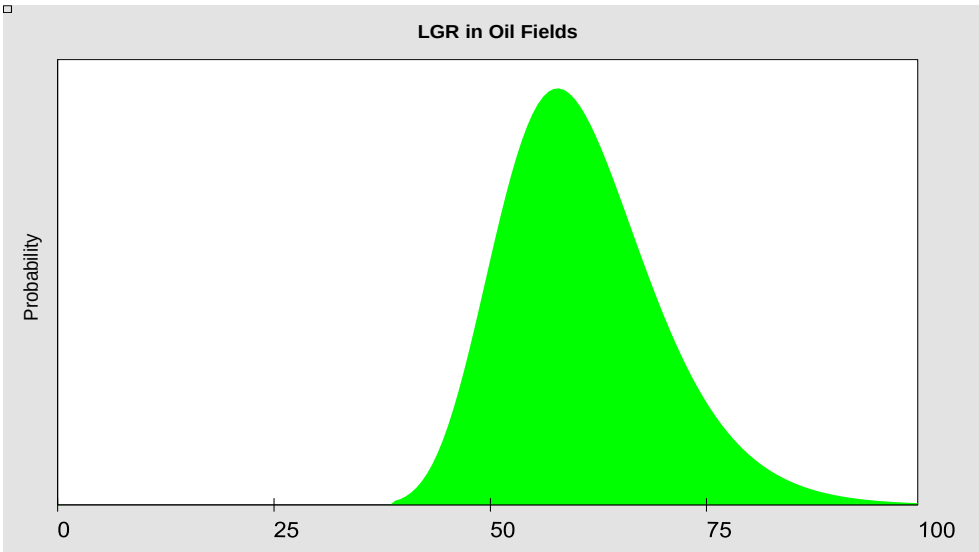
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,858.48	2,858.59
Median	2,600.68	2,598.74
Mode	---	---
Standard Deviation	1,168.90	1,178.88
Variance	1,366,333.72	1,389,766.08
Skewness	1.46	1.48
Kurtosis	6.15	6.27
Coefficient of Variability	0.4089	0.4124
Minimum	916.15	600.00
Maximum	9,987.63	10,000.00
Range Width	9,071.48	9,400.00
Mean Standard Error	5.23	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	916.15	600.00
95%	1,479.19	1,477.32
90%	1,656.00	1,652.35
85%	1,793.18	1,789.76
80%	1,916.12	1,911.64
75%	2,036.33	2,026.11
70%	2,146.52	2,137.38
65%	2,256.87	2,248.22
60%	2,365.58	2,360.76
55%	2,480.44	2,476.94
50%	2,600.62	2,598.74
45%	2,735.19	2,728.43
40%	2,871.60	2,868.80
35%	3,024.47	3,023.58
30%	3,200.09	3,198.08
25%	3,401.64	3,400.42
20%	3,642.10	3,644.16
15%	3,943.24	3,954.82
10%	4,388.50	4,390.22
5%	5,116.75	5,137.41
0%	9,987.63	10,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	41.02	61.02
Standard Deviation	9.32	9.32
Selected range is from -Infinity to 80.00		20.00 to 100.00



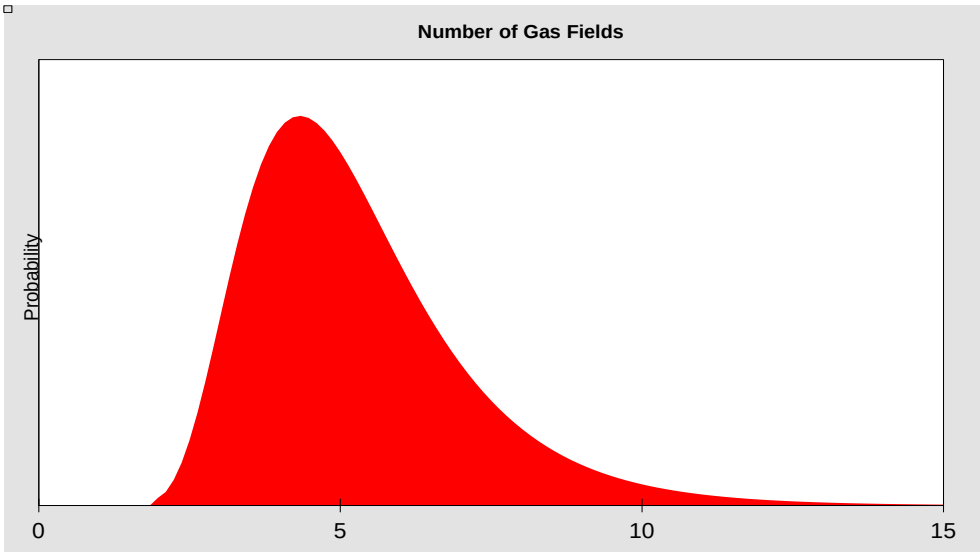
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	61.02	60.97
Median	60.04	59.99
Mode	---	---
Standard Deviation	9.26	9.22
Variance	85.67	84.93
Skewness	0.6249	0.6157
Kurtosis	3.48	3.47
Coefficient of Variability	0.1517	0.1511
Minimum	34.52	20.00
Maximum	99.99	100.00
Range Width	65.47	80.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	34.52	20.00
95%	47.72	47.65
90%	50.01	50.00
85%	51.73	51.70
80%	53.16	53.11
75%	54.39	54.38
70%	55.57	55.55
65%	56.70	56.68
60%	57.80	57.78
55%	58.94	58.88
50%	60.04	59.99
45%	61.15	61.13
40%	62.34	62.32
35%	63.60	63.59
30%	65.00	64.97
25%	66.53	66.51
20%	68.30	68.28
15%	70.52	70.43
10%	73.36	73.26
5%	77.93	77.73
0%	99.99	100.00

Assumption: Number of Gas Fields

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



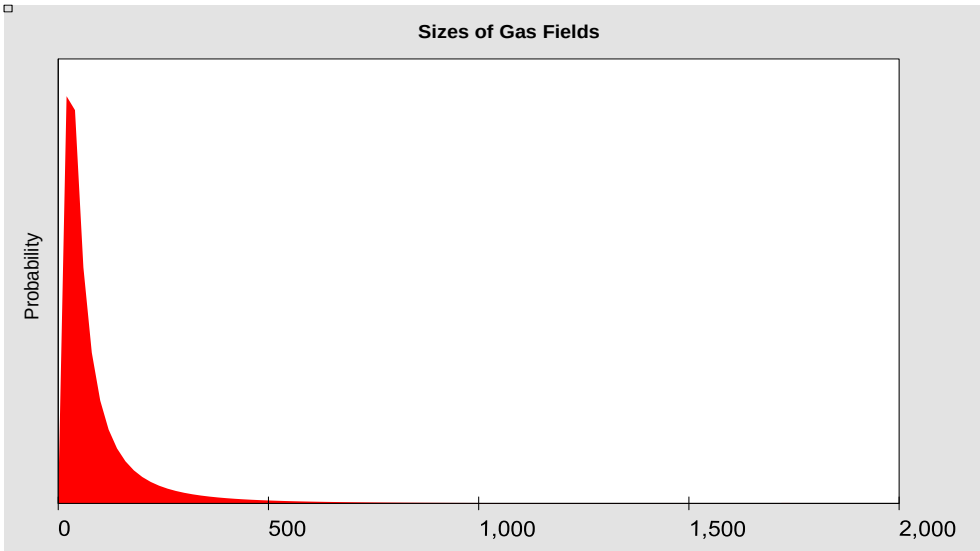
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.33	5.33
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.80	1.80
Variance	3.25	3.24
Skewness	1.19	1.17
Kurtosis	5.11	4.99
Coefficient of Variability	0.3385	0.3376
Minimum	1.65	1.00
Maximum	14.97	15.00
Range Width	13.31	14.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.65	1.00
95%	3.06	3.05
90%	3.38	3.38
85%	3.62	3.63
80%	3.83	3.84
75%	4.04	4.04
70%	4.22	4.23
65%	4.42	4.42
60%	4.61	4.61
55%	4.81	4.80
50%	5.00	5.00
45%	5.20	5.21
40%	5.43	5.43
35%	5.67	5.67
30%	5.94	5.94
25%	6.26	6.25
20%	6.62	6.62
15%	7.06	7.08
10%	7.70	7.71
5%	8.77	8.76
0%	14.97	15.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	91.65	97.65
Standard Deviation	177.77	177.77
Selected range is from -Infinity to 1,994.00		6.00 to 2,000.00



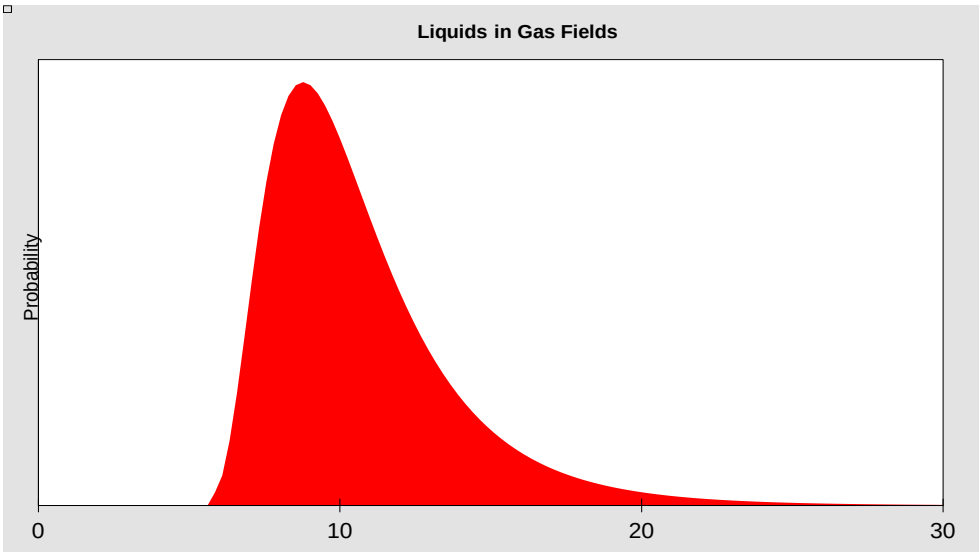
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	95.41	94.73
Median	47.96	47.93
Mode	---	---
Standard Deviation	146.51	145.18
Variance	21,466.53	21,075.95
Skewness	4.82	4.88
Kurtosis	37.03	38.05
Coefficient of Variability	1.54	1.53
Minimum	6.28	6.00
Maximum	1,998.28	2,000.00
Range Width	1,992.00	1,994.00
Mean Standard Error	0.66	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.28	6.00
95%	11.28	11.38
90%	14.41	14.47
85%	17.57	17.50
80%	20.76	20.66
75%	24.15	24.07
70%	27.83	27.79
65%	31.99	31.92
60%	36.69	36.57
55%	41.95	41.85
50%	47.96	47.93
45%	54.98	55.05
40%	63.37	63.53
35%	74.04	73.82
30%	86.99	86.66
25%	104.01	103.26
20%	126.42	125.76
15%	159.70	158.61
10%	214.34	212.91
5%	334.04	330.11
0%	1,998.28	2,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	5.73	10.73
Standard Deviation	3.20	3.2
Selected range is from -Infinity to 25.00		5.00 to 30.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.69	10.70
Median	10.00	10.00
Mode	---	---
Standard Deviation	3.09	3.11
Variance	9.57	9.66
Skewness	1.56	1.55
Kurtosis	6.74	6.59
Coefficient of Variability	0.2893	0.2904
Minimum	5.55	5.00
Maximum	29.97	30.00
Range Width	24.42	25.00
Mean Standard Error	0.01	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.55	5.00
95%	7.12	7.12
90%	7.57	7.56
85%	7.91	7.91
80%	8.22	8.22
75%	8.52	8.52
70%	8.80	8.80
65%	9.08	9.09
60%	9.38	9.38
55%	9.69	9.68
50%	10.00	10.00
45%	10.34	10.33
40%	10.70	10.70
35%	11.11	11.11
30%	11.56	11.56
25%	12.07	12.10
20%	12.73	12.74
15%	13.55	13.56
10%	14.69	14.72
5%	16.65	16.72
0%	29.97	30.00

End of Assumptions

Simulation started on 6/1/2009 at 15:57:35
Simulation stopped on 6/1/2009 at 16:18:39