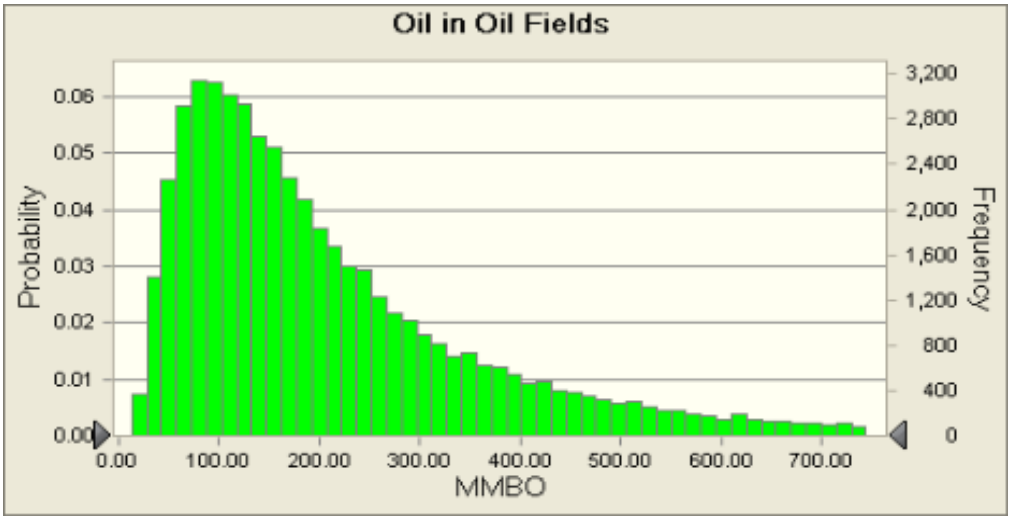
35010101
Paleogene-Neogene Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 13.11 to 2,247.61
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.83



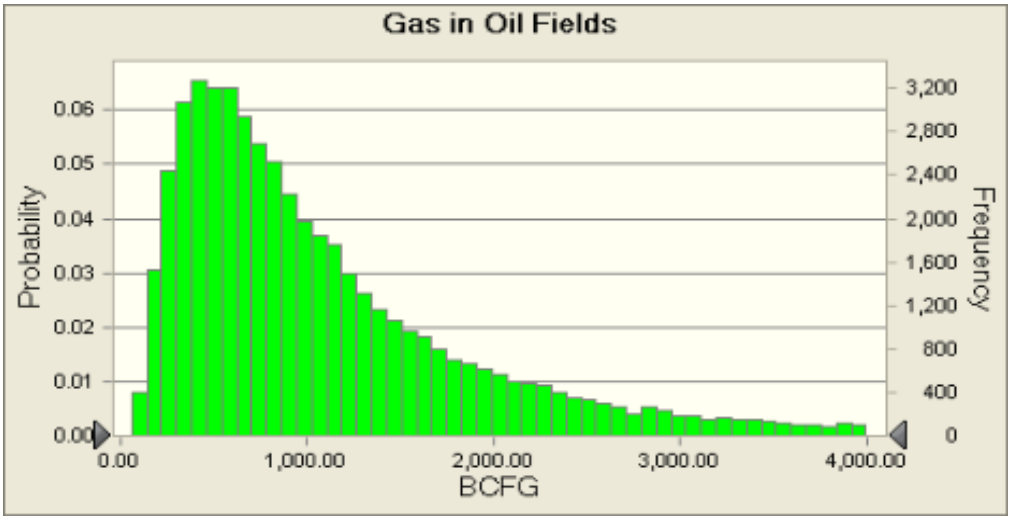
Statistics:	Forecast values
Trials	50,000
Mean	222.71
Median	166.23
Mode	---
Standard Deviation	186.20
Variance	34,671.77
Skewness	2.23
Kurtosis	10.19
Coefficient of Variability	0.8361
Minimum	13.11
Maximum	2,247.61
Range Width	2,234.50
Mean Standard Error	0.83

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	13.11
95%	48.39
90%	62.96
85%	75.30
80%	87.17
75%	99.02
70%	111.27
65%	123.57
60%	136.99
55%	151.27
50%	166.23
45%	182.99
40%	202.17
35%	224.44
30%	249.75
25%	281.45
20%	322.21
15%	376.75
10%	454.16
5%	593.12
0%	2,247.61

Forecast: Gas in Oil Fields

Summary:
Entire range is from 60.47 to 12,925.27
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.53



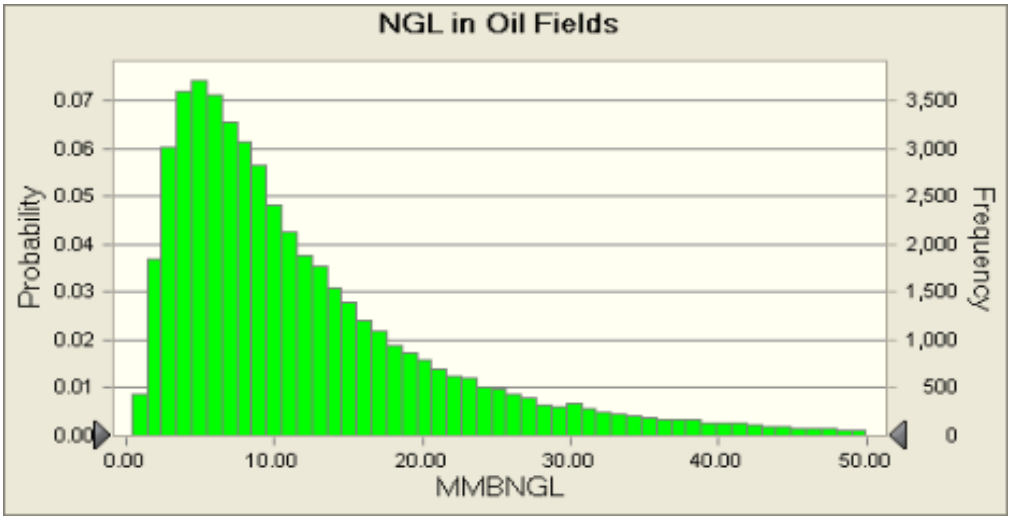
Statistics:	Forecast values
Trials	50,000
Mean	1,162.16
Median	854.46
Mode	---
Standard Deviation	1,012.37
Variance	1,024,885.53
Skewness	2.48
Kurtosis	12.40
Coefficient of Variability	0.8711
Minimum	60.47
Maximum	12,925.27
Range Width	12,864.80
Mean Standard Error	4.53

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	60.47
95%	243.53
90%	318.69
85%	383.16
80%	444.81
75%	507.78
70%	570.05
65%	632.47
60%	701.68
55%	775.54
50%	854.42
45%	943.82
40%	1,046.00
35%	1,157.95
30%	1,290.45
25%	1,458.15
20%	1,669.21
15%	1,960.27
10%	2,360.68
5%	3,151.70
0%	12,925.27

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.39 to 329.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



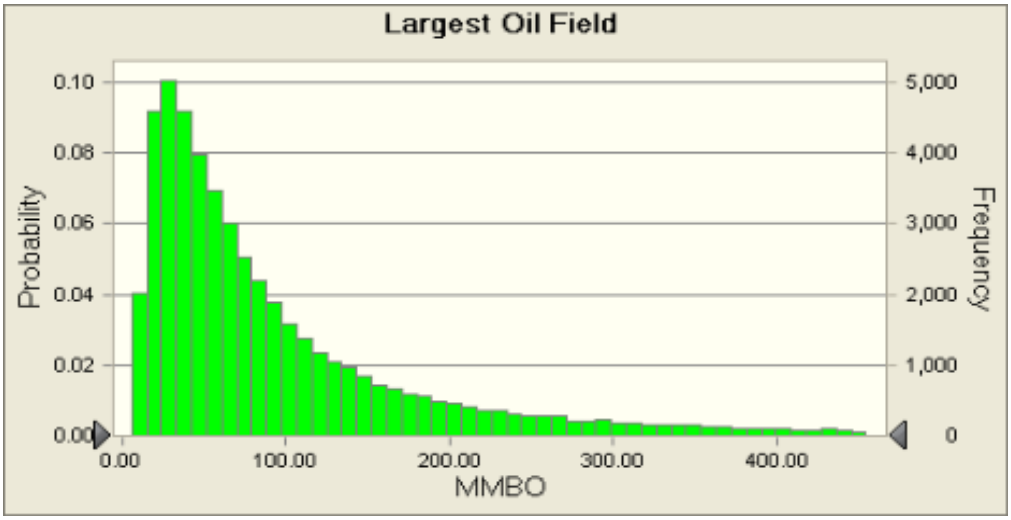
Statistics:	Forecast values
Trials	50,000
Mean	13.29
Median	9.37
Mode	---
Standard Deviation	13.09
Variance	171.28
Skewness	3.57
Kurtosis	28.91
Coefficient of Variability	0.9845
Minimum	0.39
Maximum	329.65
Range Width	329.26
Mean Standard Error	0.06

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.39
95%	2.50
90%	3.34
85%	4.05
80%	4.75
75%	5.42
70%	6.11
65%	6.87
60%	7.64
55%	8.47
50%	9.36
45%	10.38
40%	11.56
35%	12.90
30%	14.49
25%	16.37
20%	18.89
15%	22.25
10%	27.23
5%	37.15
0%	329.65

Forecast: Largest Oil Field

Summary:
Entire range is from 5.67 to 999.88
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.55



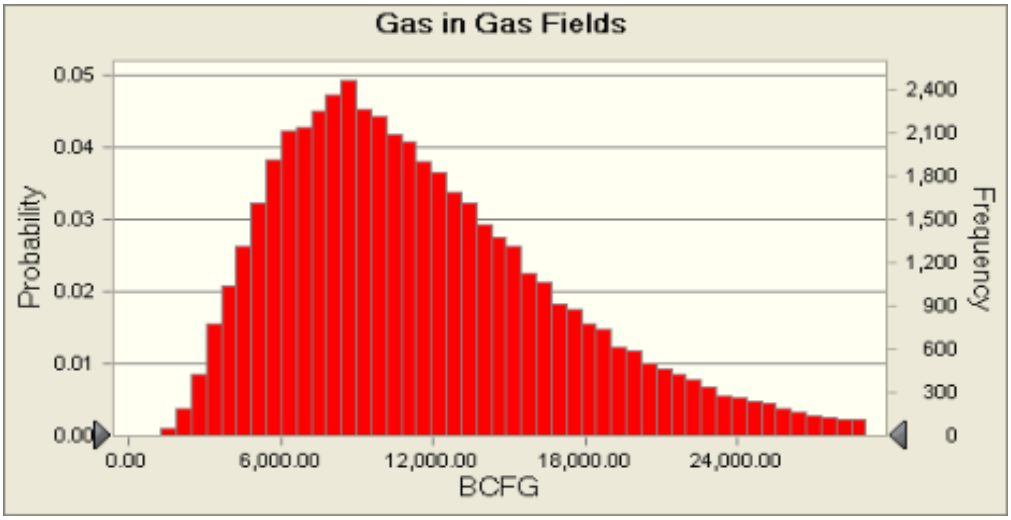
Statistics:	Forecast values
Trials	50,000
Mean	106.80
Median	64.38
Mode	---
Standard Deviation	124.05
Variance	15,388.28
Skewness	3.01
Kurtosis	14.65
Coefficient of Variability	1.16
Minimum	5.67
Maximum	999.88
Range Width	994.21
Mean Standard Error	0.55

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	5.67
95%	15.94
90%	21.06
85%	25.72
80%	30.25
75%	34.92
70%	39.79
65%	45.13
60%	50.98
55%	57.46
50%	64.38
45%	72.58
40%	82.29
35%	93.48
30%	107.23
25%	125.71
20%	149.35
15%	184.12
10%	239.97
5%	351.88
0%	999.88

Forecast: Gas in Gas Fields

Summary:
Entire range is from 123.61 to 56,524.25
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 27.42



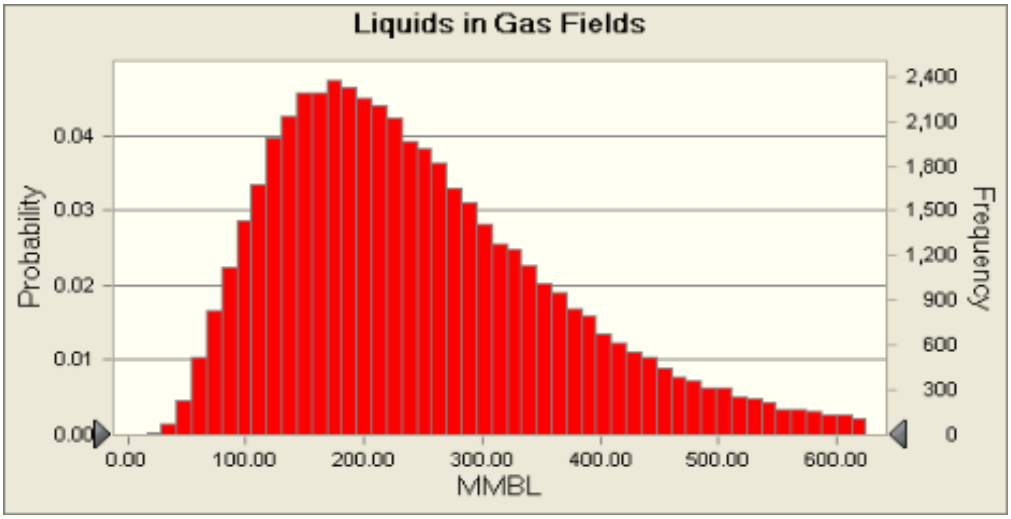
Statistics:	Forecast values
Trials	50,000
Mean	11,877.88
Median	10,678.94
Mode	---
Standard Deviation	6,131.65
Variance	37,597,073.13
Skewness	1.25
Kurtosis	5.39
Coefficient of Variability	0.5162
Minimum	123.61
Maximum	56,524.25
Range Width	56,400.64
Mean Standard Error	27.42

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	123.61
95%	4,267.58
90%	5,290.55
85%	6,075.97
80%	6,777.90
75%	7,446.25
70%	8,081.59
65%	8,693.37
60%	9,324.72
55%	9,982.18
50%	10,678.77
45%	11,402.46
40%	12,175.40
35%	13,024.73
30%	13,961.60
25%	15,022.44
20%	16,271.13
15%	17,849.52
10%	19,979.05
5%	23,531.77
0%	56,524.25

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 3.29 to 1,345.06
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.59



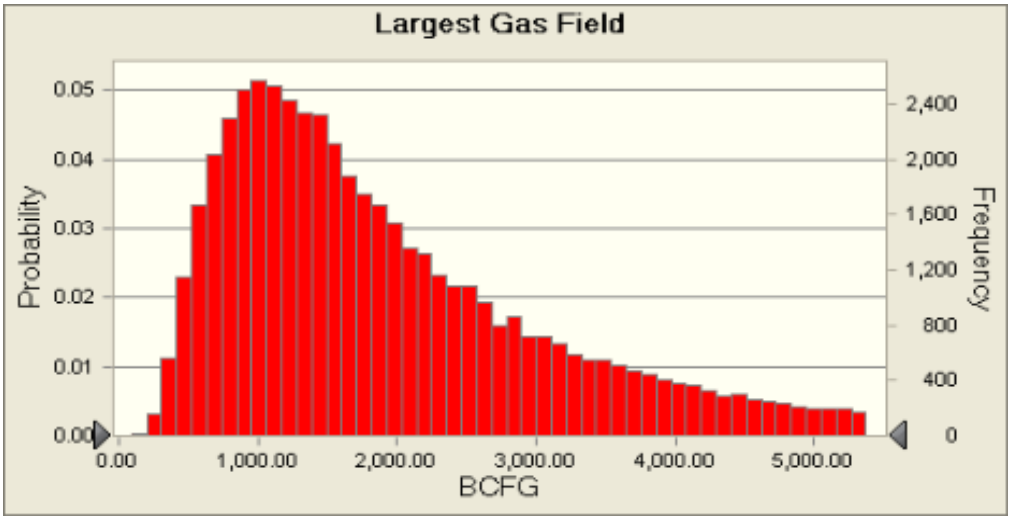
Statistics:	Forecast values
Trials	50,000
Mean	252.95
Median	226.45
Mode	---
Standard Deviation	132.78
Variance	17,631.60
Skewness	1.27
Kurtosis	5.51
Coefficient of Variability	0.5249
Minimum	3.29
Maximum	1,345.06
Range Width	1,341.76
Mean Standard Error	0.59

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	3.29
95%	89.33
90%	110.87
85%	128.01
80%	142.81
75%	156.71
70%	170.57
65%	183.86
60%	197.58
55%	211.79
50%	226.45
45%	242.29
40%	258.61
35%	276.84
30%	297.06
25%	320.97
20%	348.10
15%	382.01
10%	428.52
5%	506.72
0%	1,345.06

Forecast: Largest Gas Field

Summary:
Entire range is from 87.66 to 5,998.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.46



Statistics:	Forecast values
Trials	50,000
Mean	1,954.55
Median	1,615.54
Mode	---
Standard Deviation	1,220.75
Variance	1,490,225.83
Skewness	1.13
Kurtosis	3.76
Coefficient of Variability	0.6246
Minimum	87.66
Maximum	5,998.91
Range Width	5,911.24
Mean Standard Error	5.46

Forecast: Largest Gas Field (continued)

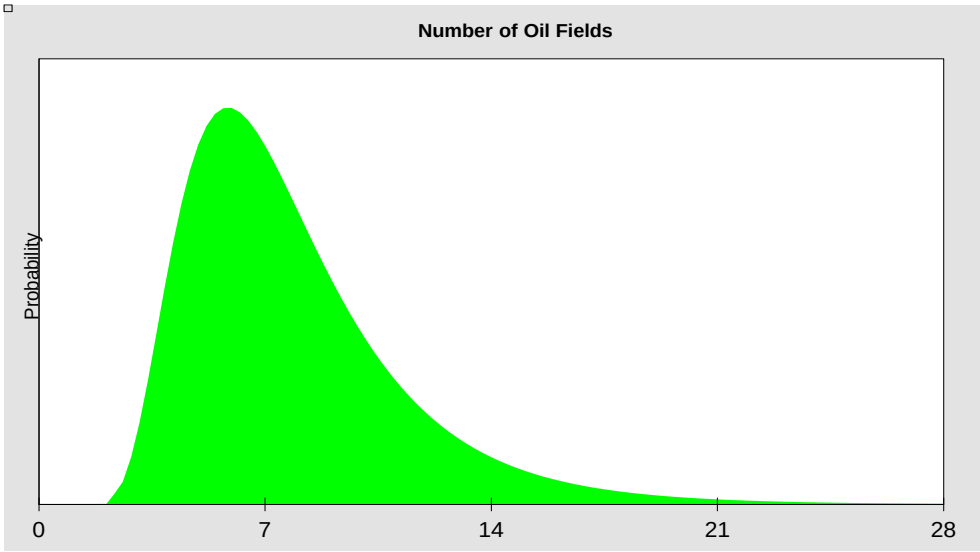
Percentiles:	BCFG
100%	87.66
95%	564.46
90%	707.10
85%	825.96
80%	932.63
75%	1,038.96
70%	1,145.59
65%	1,254.18
60%	1,371.05
55%	1,486.28
50%	1,615.52
45%	1,763.77
40%	1,921.86
35%	2,106.74
30%	2,316.72
25%	2,564.10
20%	2,868.07
15%	3,257.92
10%	3,778.93
5%	4,547.23
0%	5,998.91

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	6.75	7.75
Standard Deviation	3.49	3.49
Selected range is from -Infinity to 27.00		1.00 to 28.00



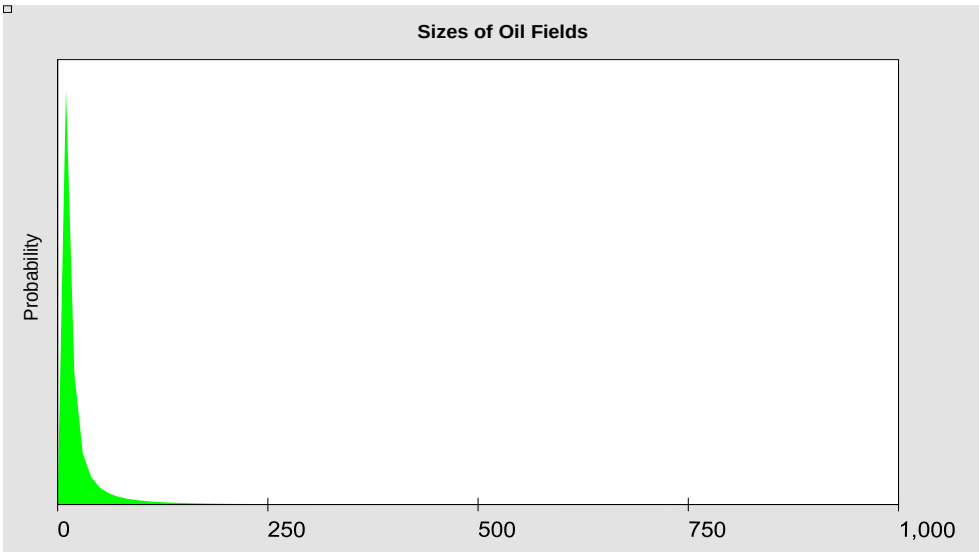
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	7.77	7.73
Median	7.03	7.00
Mode	---	---
Standard Deviation	3.41	3.40
Variance	11.62	11.59
Skewness	1.42	1.44
Kurtosis	5.98	6.06
Coefficient of Variability	0.4390	0.4405
Minimum	1.91	1.00
Maximum	27.96	28.00
Range Width	26.05	27.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.91	1.00
95%	3.69	3.69
90%	4.23	4.21
85%	4.64	4.62
80%	5.01	4.98
75%	5.35	5.32
70%	5.68	5.65
65%	6.01	5.97
60%	6.34	6.30
55%	6.67	6.64
50%	7.03	7.00
45%	7.41	7.37
40%	7.83	7.78
35%	8.29	8.23
30%	8.80	8.74
25%	9.37	9.32
20%	10.07	10.03
15%	10.95	10.92
10%	12.22	12.17
5%	14.36	14.30
0%	27.96	28.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	25.34	30.34
Standard Deviation	88.19	88.19
Selected range is from -Infinity to 995.00		5.00 to 1,000.00



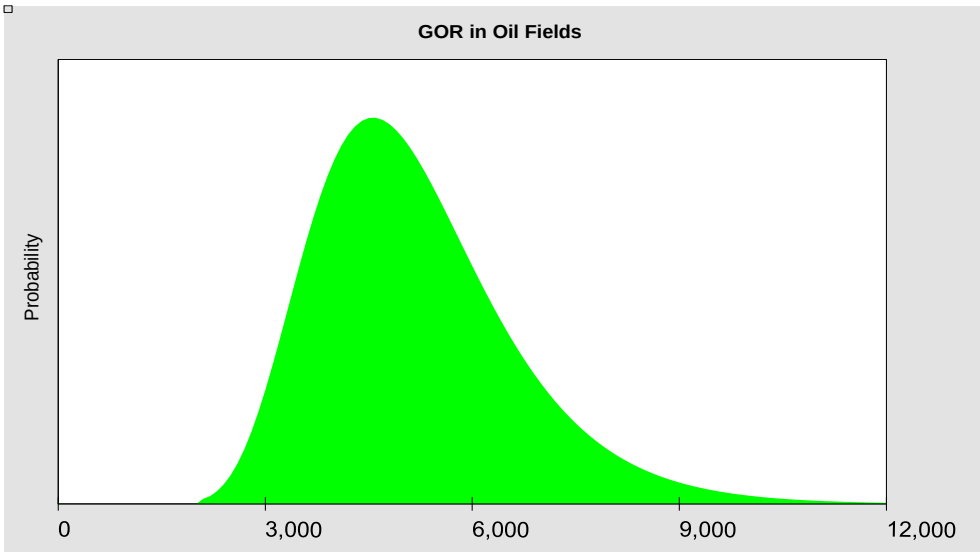
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	28.52	28.73
Median	11.97	11.99
Mode	---	---
Standard Deviation	56.68	57.05
Variance	3,212.62	3,255.20
Skewness	6.93	7.08
Kurtosis	70.27	74.02
Coefficient of Variability	1.99	1.99
Minimum	5.02	5.00
Maximum	987.24	1,000.00
Range Width	982.22	995.00
Mean Standard Error	0.25	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.02	5.00
95%	5.49	5.50
90%	5.88	5.90
85%	6.31	6.33
80%	6.81	6.81
75%	7.38	7.37
70%	8.04	8.01
65%	8.79	8.77
60%	9.67	9.65
55%	10.72	10.71
50%	11.97	11.99
45%	13.55	13.54
40%	15.45	15.48
35%	17.81	17.95
30%	20.99	21.18
25%	25.47	25.58
20%	31.58	31.88
15%	41.33	41.70
10%	59.06	59.24
5%	101.12	101.53
0%	987.24	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	4,712.31	5,212.31
Standard Deviation	1,464.50	1,464.50
Selected range is from -Infinity to 11,500.00		500.00 to 12,000.00



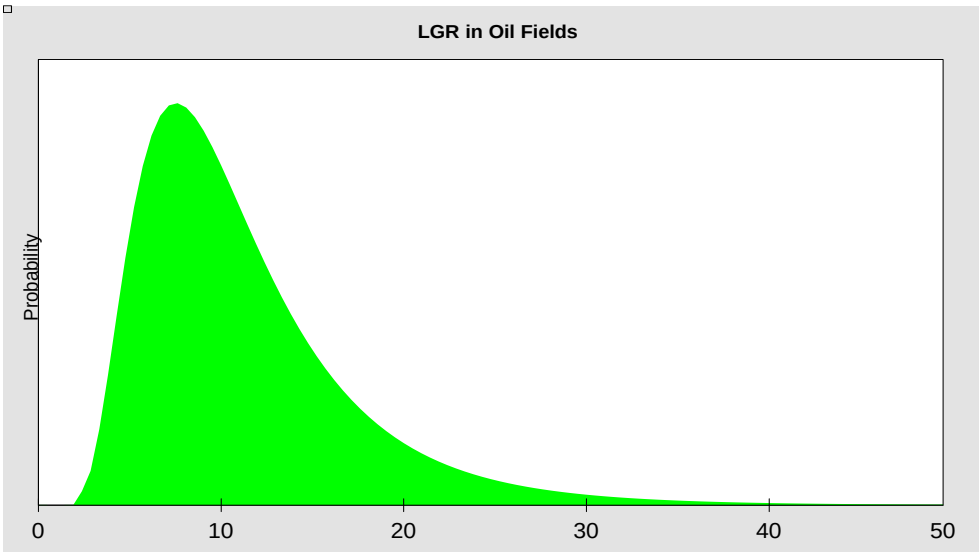
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5,198.29	5,204.46
Median	4,996.76	4,998.29
Mode	---	---
Standard Deviation	1,431.21	1,443.72
Variance	2,048,348.34	2,084,333.36
Skewness	0.8329	0.8518
Kurtosis	3.94	4.00
Coefficient of Variability	0.2753	0.2774
Minimum	1,779.62	500.00
Maximum	11,991.74	12,000.00
Range Width	10,212.12	11,500.00
Mean Standard Error	6.40	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1,779.62	500.00
95%	3,238.42	3,230.47
90%	3,557.25	3,548.85
85%	3,782.74	3,784.36
80%	3,980.74	3,984.43
75%	4,163.28	4,165.74
70%	4,335.77	4,336.58
65%	4,504.96	4,501.98
60%	4,667.75	4,665.49
55%	4,830.45	4,830.03
50%	4,996.76	4,998.29
45%	5,166.42	5,173.05
40%	5,351.83	5,357.55
35%	5,551.54	5,555.85
30%	5,768.18	5,773.52
25%	6,018.30	6,018.84
20%	6,302.23	6,305.27
15%	6,642.30	6,657.57
10%	7,106.81	7,130.39
5%	7,868.47	7,894.63
0%	11,991.74	12,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.46	11.46
Standard Deviation	6.20	6.2
Selected range is from -Infinity to 49.00		1.00 to 50.00



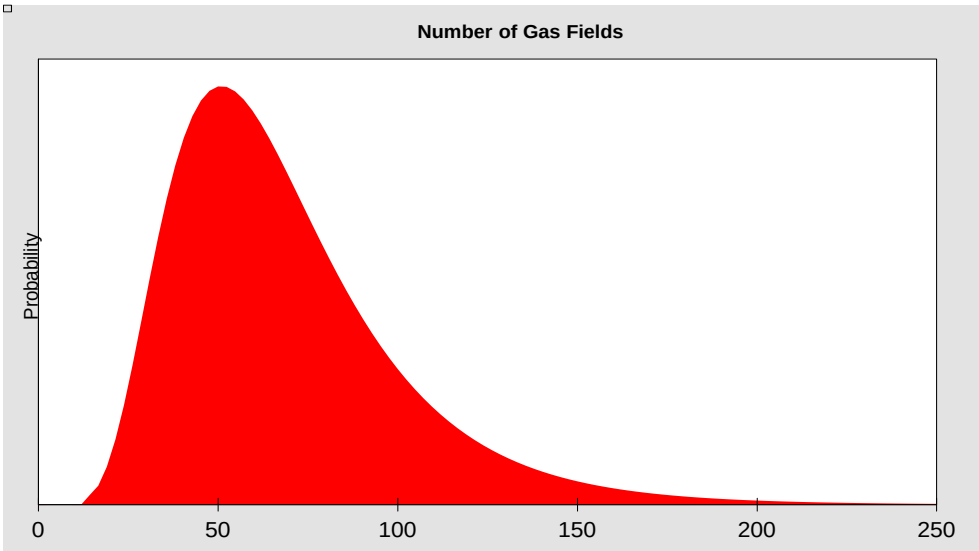
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	11.39	11.41
Median	9.96	9.99
Mode	---	---
Standard Deviation	5.98	6.01
Variance	35.81	36.11
Skewness	1.65	1.65
Kurtosis	7.06	7.06
Coefficient of Variability	0.5255	0.5265
Minimum	1.89	1.00
Maximum	49.88	50.00
Range Width	47.99	49.00
Mean Standard Error	0.03	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.89	1.00
95%	4.65	4.65
90%	5.44	5.46
85%	6.11	6.10
80%	6.67	6.67
75%	7.23	7.21
70%	7.75	7.75
65%	8.27	8.28
60%	8.82	8.83
55%	9.39	9.40
50%	9.96	9.99
45%	10.61	10.63
40%	11.33	11.33
35%	12.08	12.11
30%	12.94	12.99
25%	13.97	14.01
20%	15.22	15.26
15%	16.79	16.86
10%	19.03	19.12
5%	22.93	23.07
0%	49.88	50.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	68.60	69.6
Standard Deviation	32.50	32.5
Selected range is from -Infinity to 249.00		1.00 to 250.00



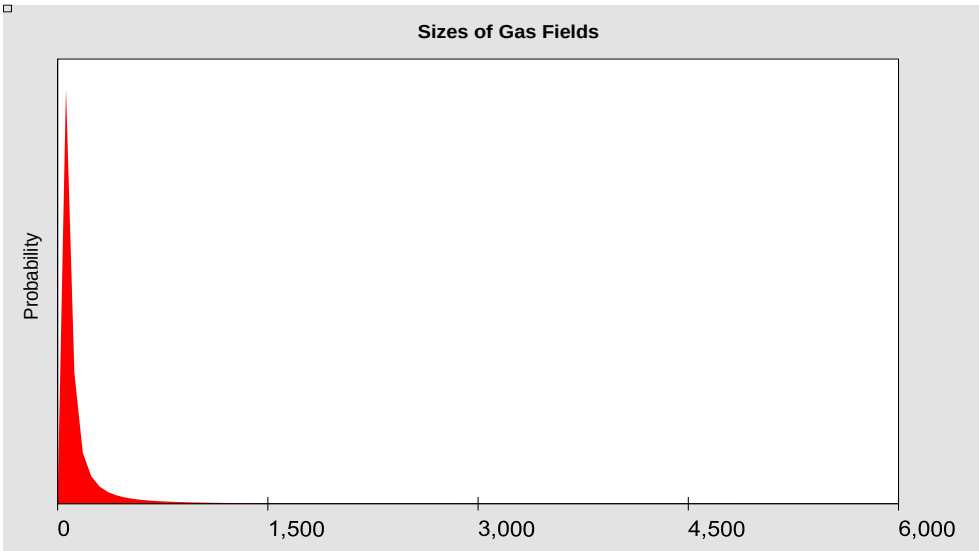
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	69.20	69.39
Median	62.85	62.97
Mode	---	---
Standard Deviation	31.53	31.77
Variance	994.21	1,009.31
Skewness	1.29	1.31
Kurtosis	5.46	5.54
Coefficient of Variability	0.4557	0.4579
Minimum	11.79	1.00
Maximum	248.89	250.00
Range Width	237.09	249.00
Mean Standard Error	0.14	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.79	1.00
95%	30.60	30.57
90%	35.74	35.82
85%	39.77	39.88
80%	43.34	43.44
75%	46.60	46.75
70%	49.69	49.95
65%	52.82	53.11
60%	56.22	56.29
55%	59.44	59.56
50%	62.85	62.97
45%	66.47	66.57
40%	70.51	70.44
35%	74.73	74.68
30%	79.41	79.43
25%	84.79	84.89
20%	91.32	91.43
15%	99.36	99.67
10%	110.76	111.11
5%	129.53	130.43
0%	248.89	250.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	152.07	182.07
Standard Deviation	529.17	529.17
Selected range is from -Infinity to 5,970.00		30.00 to 6,000.00



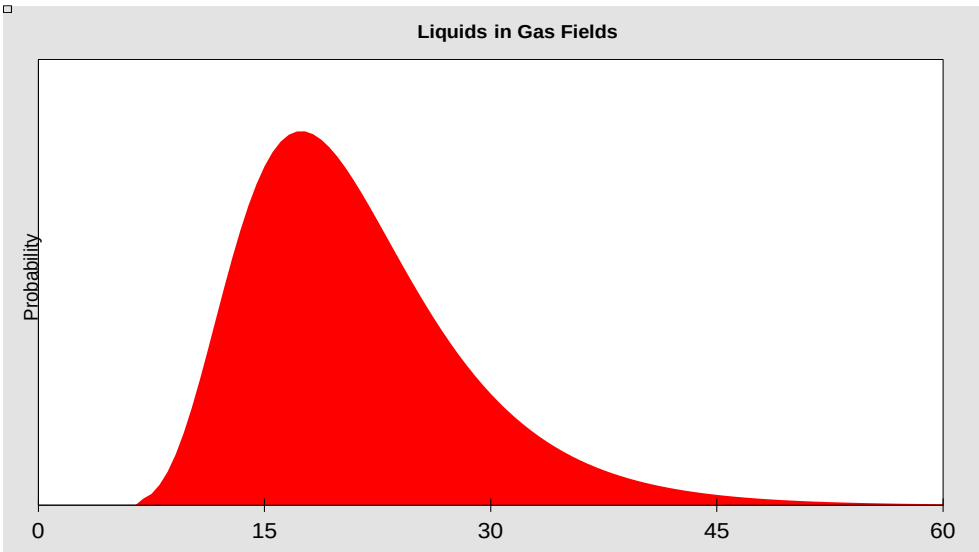
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	172.66	172.40
Median	72.06	71.92
Mode	---	---
Standard Deviation	344.06	342.33
Variance	118,374.78	117,187.16
Skewness	7.02	7.08
Kurtosis	72.26	74.02
Coefficient of Variability	1.99	1.99
Minimum	30.08	30.00
Maximum	5,878.29	6,000.00
Range Width	5,848.20	5,970.00
Mean Standard Error	1.54	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.08	30.00
95%	33.06	33.00
90%	35.36	35.37
85%	37.91	37.96
80%	40.80	40.87
75%	44.10	44.22
70%	48.05	48.08
65%	52.62	52.60
60%	57.88	57.93
55%	64.28	64.27
50%	72.06	71.92
45%	81.71	81.27
40%	93.65	92.90
35%	108.72	107.71
30%	128.52	127.09
25%	154.23	153.45
20%	192.84	191.29
15%	253.21	250.18
10%	360.13	355.47
5%	612.03	609.17
0%	5,878.29	6,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	19.34	21.34
Standard Deviation	7.59	7.59
Selected range is from -Infinity to 58.00		2.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.28	21.29
Median	19.96	19.99
Mode	---	---
Standard Deviation	7.43	7.46
Variance	55.21	55.60
Skewness	1.07	1.08
Kurtosis	4.62	4.69
Coefficient of Variability	0.3491	0.3502
Minimum	6.11	2.00
Maximum	59.90	60.00
Range Width	53.79	58.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.11	2.00
95%	11.68	11.65
90%	13.10	13.08
85%	14.19	14.15
80%	15.11	15.08
75%	15.96	15.94
70%	16.75	16.75
65%	17.56	17.55
60%	18.35	18.35
55%	19.14	19.16
50%	19.96	19.99
45%	20.87	20.87
40%	21.78	21.80
35%	22.79	22.81
30%	23.90	23.94
25%	25.20	25.22
20%	26.71	26.73
15%	28.60	28.61
10%	31.20	31.19
5%	35.44	35.44
0%	59.90	60.00

End of Assumptions

Simulation started on 12/15/2009 at 15:17:12
Simulation stopped on 12/15/2009 at 16:23:27