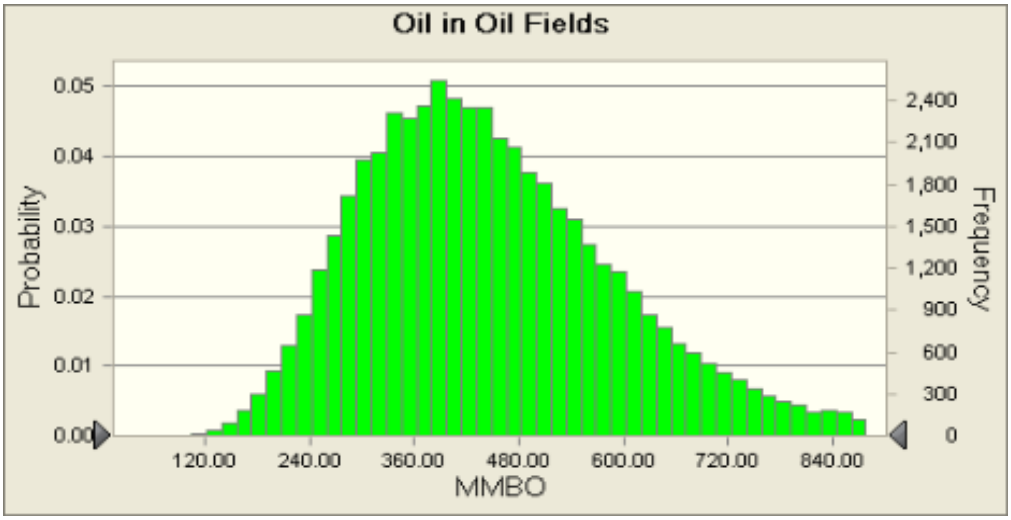
37030101
Main Malay-Tho Chu
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 35.29 to 1,479.70
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.68



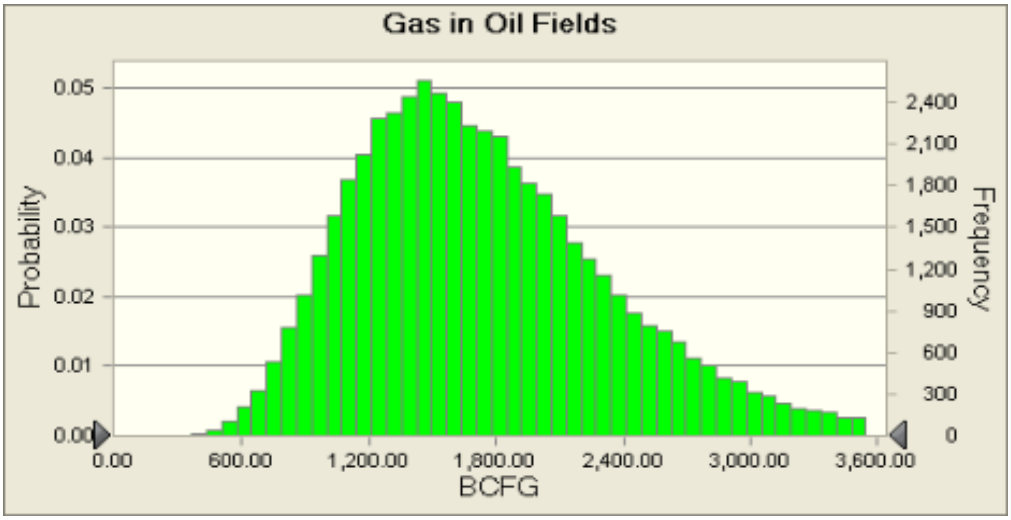
Statistics:	Forecast values
Trials	50,000
Mean	450.50
Median	429.67
Mode	---
Standard Deviation	152.97
Variance	23,398.62
Skewness	0.8167
Kurtosis	3.98
Coefficient of Variability	0.3395
Minimum	35.29
Maximum	1,479.70
Range Width	1,444.41
Mean Standard Error	0.68

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	35.29
95%	239.99
90%	273.88
85%	298.48
80%	320.11
75%	339.49
70%	358.79
65%	376.92
60%	393.87
55%	411.53
50%	429.67
45%	448.06
40%	468.20
35%	489.62
30%	512.94
25%	539.02
20%	568.96
15%	605.03
10%	653.76
5%	732.28
0%	1,479.70

Forecast: Gas in Oil Fields

Summary:
Entire range is from 77.82 to 6,309.24
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.86



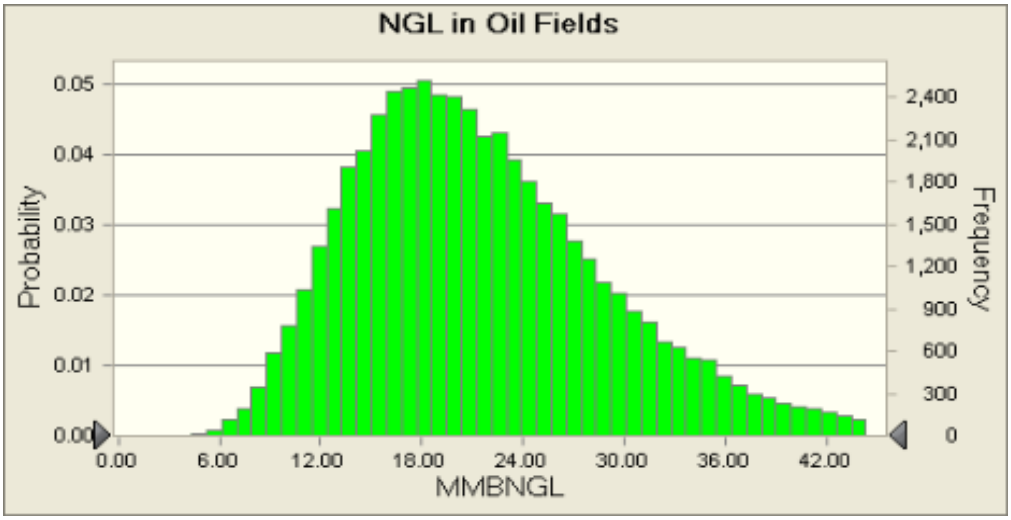
Statistics:	Forecast values
Trials	50,000
Mean	1,755.96
Median	1,657.63
Mode	---
Standard Deviation	639.30
Variance	408,698.27
Skewness	0.9234
Kurtosis	4.33
Coefficient of Variability	0.3641
Minimum	77.82
Maximum	6,309.24
Range Width	6,231.42
Mean Standard Error	2.86

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	77.82
95%	892.70
90%	1,029.01
85%	1,130.48
80%	1,218.28
75%	1,294.80
70%	1,369.95
65%	1,441.79
60%	1,511.46
55%	1,582.88
50%	1,657.62
45%	1,737.61
40%	1,821.32
35%	1,907.28
30%	2,005.33
25%	2,113.09
20%	2,241.49
15%	2,397.75
10%	2,611.65
5%	2,944.76
0%	6,309.24

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.77 to 73.92
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.04



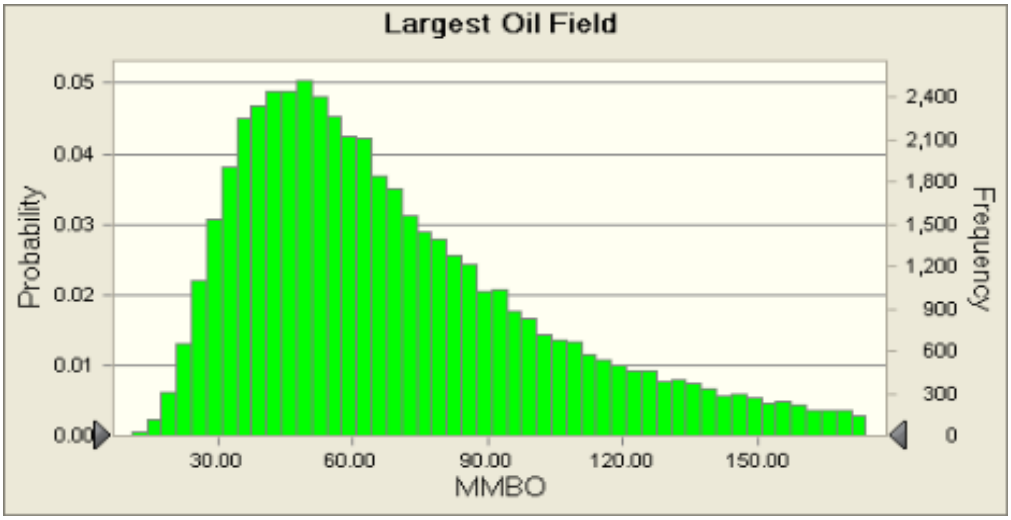
Statistics:	Forecast values
Trials	50,000
Mean	21.76
Median	20.52
Mode	---
Standard Deviation	8.07
Variance	65.14
Skewness	0.9618
Kurtosis	4.48
Coefficient of Variability	0.3708
Minimum	0.77
Maximum	73.92
Range Width	73.15
Mean Standard Error	0.04

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.77
95%	10.95
90%	12.65
85%	13.90
80%	15.00
75%	15.97
70%	16.89
65%	17.79
60%	18.66
55%	19.58
50%	20.52
45%	21.49
40%	22.55
35%	23.62
30%	24.85
25%	26.20
20%	27.83
15%	29.81
10%	32.54
5%	36.72
0%	73.92

Forecast: Largest Oil Field

Summary:
Entire range is from 10.84 to 199.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.16



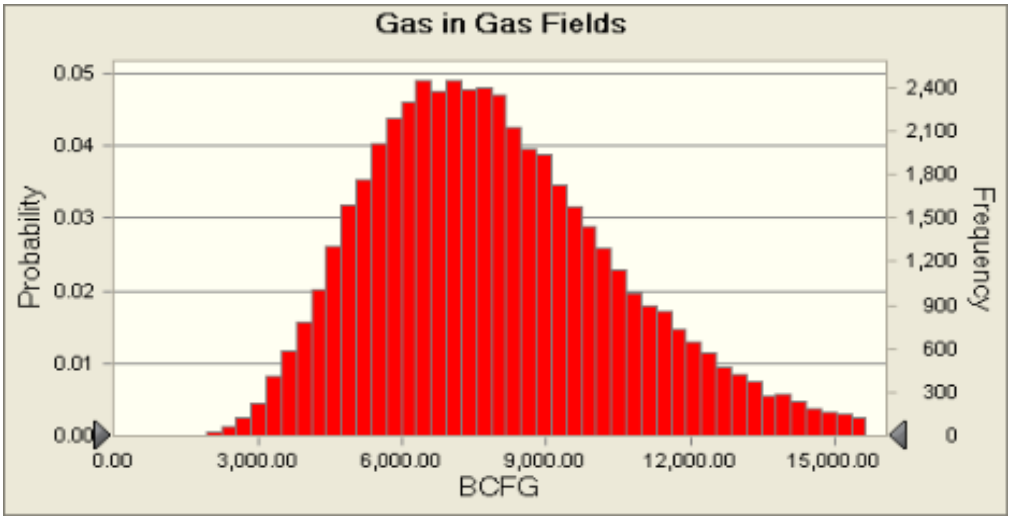
Statistics:	Forecast values
Trials	50,000
Mean	71.13
Median	61.79
Mode	---
Standard Deviation	36.81
Variance	1,354.81
Skewness	1.14
Kurtosis	3.96
Coefficient of Variability	0.5175
Minimum	10.84
Maximum	199.98
Range Width	189.14
Mean Standard Error	0.16

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	10.84
95%	28.21
90%	33.16
85%	36.96
80%	40.51
75%	43.96
70%	47.36
65%	50.71
60%	54.13
55%	57.85
50%	61.79
45%	65.95
40%	70.67
35%	76.11
30%	82.16
25%	89.09
20%	97.75
15%	109.13
10%	124.85
5%	148.68
0%	199.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 55.41 to 25,404.89
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 12.21



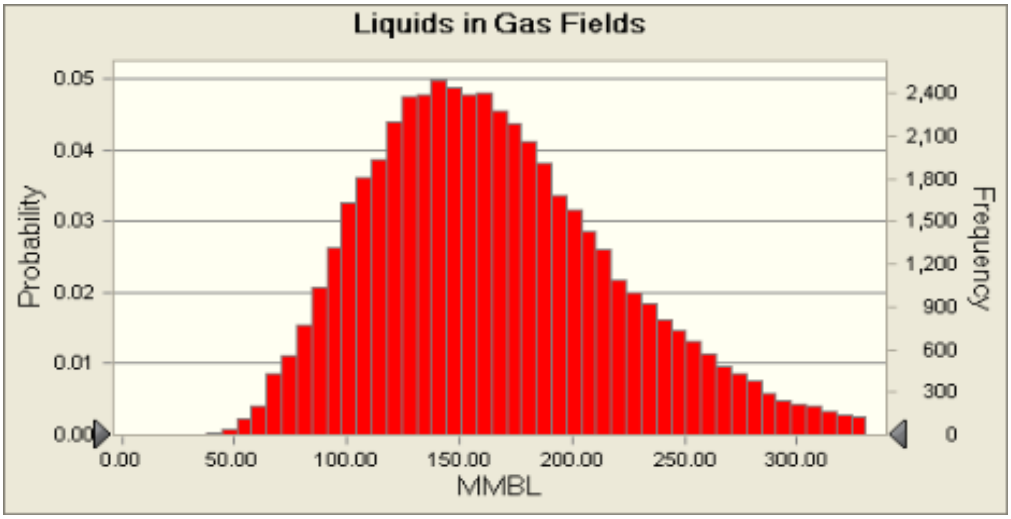
Statistics:	Forecast values
Trials	50,000
Mean	8,008.22
Median	7,660.58
Mode	---
Standard Deviation	2,731.27
Variance	7,459,854.82
Skewness	0.7697
Kurtosis	3.81
Coefficient of Variability	0.3411
Minimum	55.41
Maximum	25,404.89
Range Width	25,349.49
Mean Standard Error	12.21

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	55.41
95%	4,199.62
90%	4,827.99
85%	5,288.37
80%	5,680.31
75%	6,035.85
70%	6,368.74
65%	6,685.73
60%	7,010.62
55%	7,331.43
50%	7,660.58
45%	7,984.34
40%	8,330.00
35%	8,718.71
30%	9,122.06
25%	9,588.55
20%	10,124.86
15%	10,798.67
10%	11,676.11
5%	13,049.33
0%	25,404.89

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.04 to 632.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.26



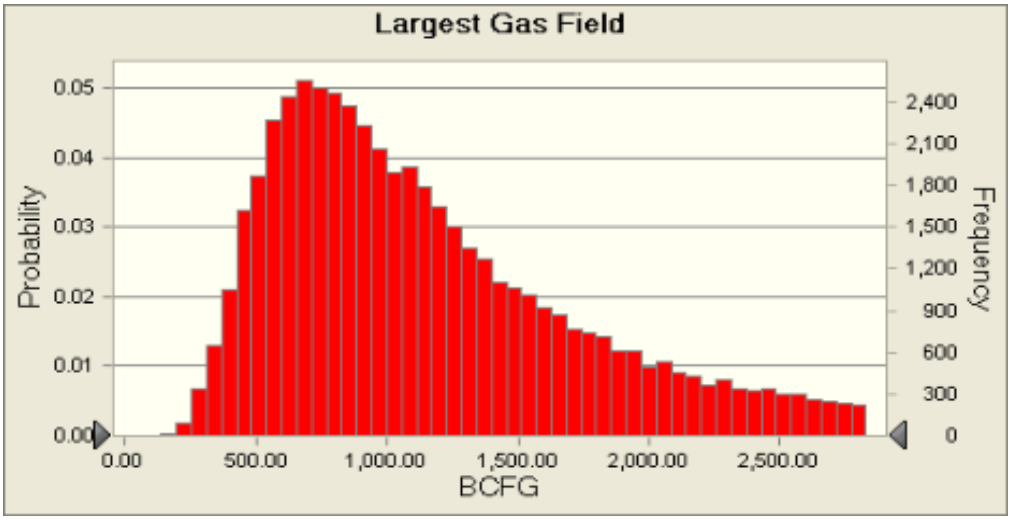
Statistics:	Forecast values
Trials	50,000
Mean	167.41
Median	159.87
Mode	---
Standard Deviation	58.28
Variance	3,396.96
Skewness	0.7966
Kurtosis	3.91
Coefficient of Variability	0.3481
Minimum	1.04
Maximum	632.53
Range Width	631.49
Mean Standard Error	0.26

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.04
95%	86.61
90%	99.69
85%	109.29
80%	117.93
75%	125.31
70%	132.26
65%	139.25
60%	145.96
55%	152.81
50%	159.87
45%	166.89
40%	174.25
35%	182.23
30%	190.84
25%	200.88
20%	212.37
15%	226.97
10%	246.07
5%	274.91
0%	632.53

Forecast: Largest Gas Field

Summary:
Entire range is from 25.06 to 2,999.85
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.67



Statistics:	Forecast values
Trials	50,000
Mean	1,157.53
Median	1,012.28
Mode	---
Standard Deviation	596.75
Variance	356,111.95
Skewness	0.9593
Kurtosis	3.32
Coefficient of Variability	0.5155
Minimum	25.06
Maximum	2,999.85
Range Width	2,974.79
Mean Standard Error	2.67

Forecast: Largest Gas Field (continued)

Percentiles:	BCFG
100%	25.06
95%	439.22
90%	521.92
85%	586.71
80%	647.11
75%	703.25
70%	759.33
65%	818.22
60%	877.82
55%	942.18
50%	1,012.27
45%	1,087.65
40%	1,165.78
35%	1,254.86
30%	1,358.28
25%	1,483.66
20%	1,630.07
15%	1,813.42
10%	2,055.53
5%	2,416.56
0%	2,999.85

End of Forecasts

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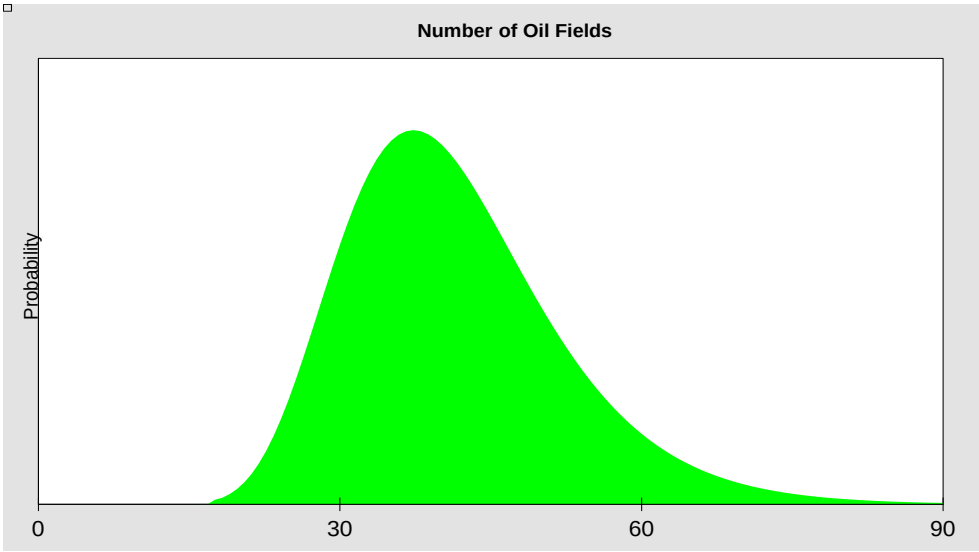
Monte Carlo Results

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	39.43	41.43
Standard Deviation	10.92	10.92
Selected range is from -Infinity to 88.00		2.00 to 90.00



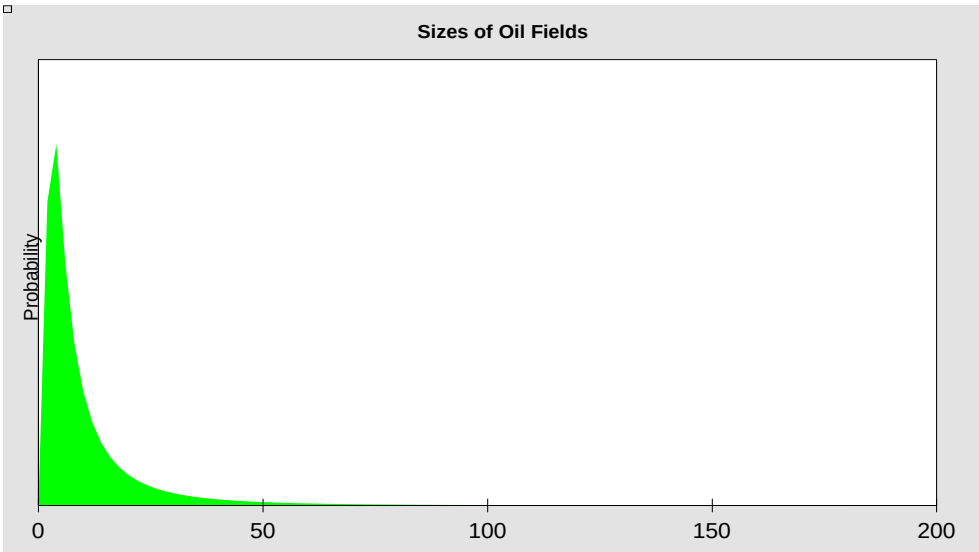
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	41.39	41.37
Median	39.98	39.99
Mode	---	---
Standard Deviation	10.78	10.78
Variance	116.27	116.13
Skewness	0.7624	0.7560
Kurtosis	3.75	3.77
Coefficient of Variability	0.2605	0.2605
Minimum	13.77	2.00
Maximum	89.87	90.00
Range Width	76.10	88.00
Mean Standard Error	0.05	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	13.77	2.00
95%	26.45	26.30
90%	28.84	28.82
85%	30.68	30.67
80%	32.19	32.23
75%	33.65	33.63
70%	34.94	34.94
65%	36.23	36.21
60%	37.45	37.46
55%	38.71	38.71
50%	39.98	39.99
45%	41.30	41.31
40%	42.68	42.69
35%	44.13	44.17
30%	45.80	45.80
25%	47.61	47.62
20%	49.75	49.73
15%	52.41	52.31
10%	55.75	55.76
5%	61.44	61.27
0%	89.87	90.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.18	11.18
Standard Deviation	18.04	18.04
Selected range is from -Infinity to 199.00		1.00 to 200.00



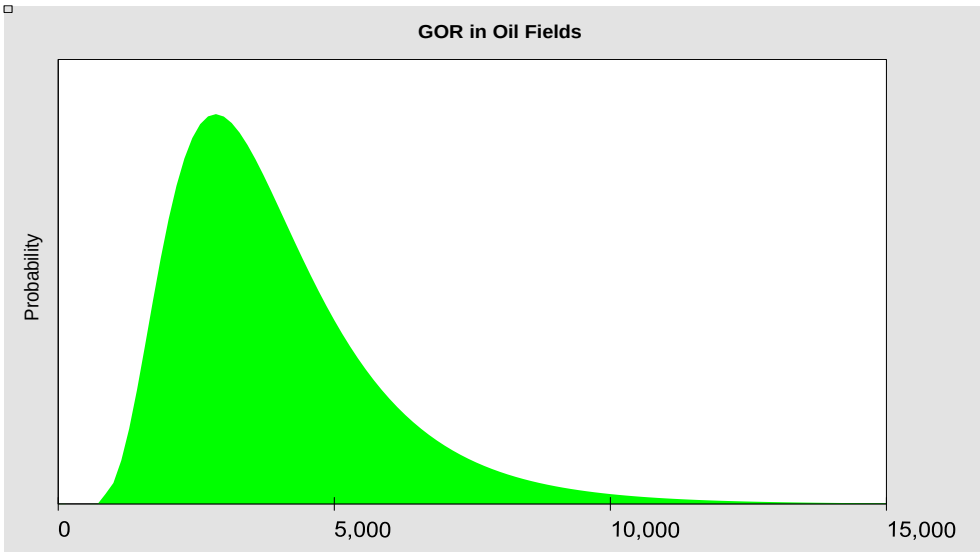
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.83	10.89
Median	5.98	5.99
Mode	---	---
Standard Deviation	14.99	15.12
Variance	224.74	228.47
Skewness	4.60	4.56
Kurtosis	34.40	33.73
Coefficient of Variability	1.38	1.39
Minimum	1.03	1.00
Maximum	199.92	200.00
Range Width	198.90	199.00
Mean Standard Error	0.07	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.03	1.00
95%	1.71	1.70
90%	2.09	2.08
85%	2.45	2.45
80%	2.83	2.83
75%	3.23	3.24
70%	3.67	3.67
65%	4.15	4.15
60%	4.70	4.69
55%	5.29	5.30
50%	5.98	5.99
45%	6.80	6.80
40%	7.71	7.75
35%	8.88	8.90
30%	10.30	10.32
25%	12.11	12.14
20%	14.51	14.59
15%	17.98	18.13
10%	23.74	23.90
5%	35.75	36.15
0%	199.92	200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	3,811.81	3,911.81
Standard Deviation	1,932.08	1,932.08
Selected range is from -Infinity to 14,900.00		100.00 to 15,000.00



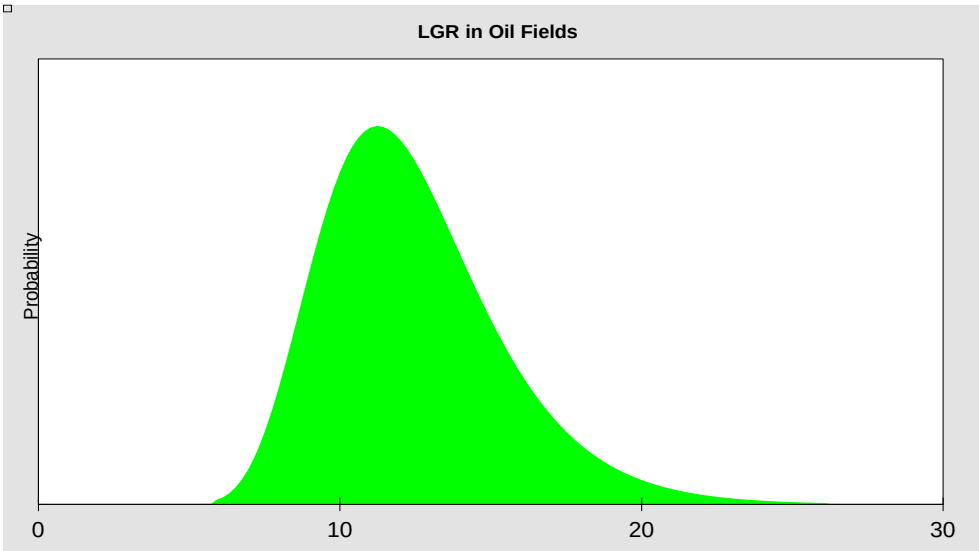
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,900.38	3,898.44
Median	3,505.94	3,497.96
Mode	---	---
Standard Deviation	1,873.78	1,884.86
Variance	3,511,055.68	3,552,713.79
Skewness	1.37	1.41
Kurtosis	5.77	5.93
Coefficient of Variability	0.4804	0.4835
Minimum	554.57	100.00
Maximum	14,999.92	15,000.00
Range Width	14,445.35	14,900.00
Mean Standard Error	8.38	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	554.57	100.00
95%	1,647.79	1,648.06
90%	1,955.03	1,941.70
85%	2,181.97	2,170.65
80%	2,374.25	2,372.74
75%	2,567.30	2,561.74
70%	2,746.16	2,744.82
65%	2,929.90	2,926.59
60%	3,120.29	3,110.58
55%	3,309.04	3,299.97
50%	3,505.93	3,497.96
45%	3,709.14	3,708.17
40%	3,934.09	3,935.04
35%	4,186.24	4,184.46
30%	4,472.02	4,464.80
25%	4,794.19	4,788.80
20%	5,185.86	5,177.70
15%	5,677.98	5,671.36
10%	6,365.52	6,359.78
5%	7,518.44	7,533.09
0%	14,999.92	15,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.41	12.41
Standard Deviation	3.01	3.01
Selected range is from -Infinity to 24.00		2.00 to 26.00



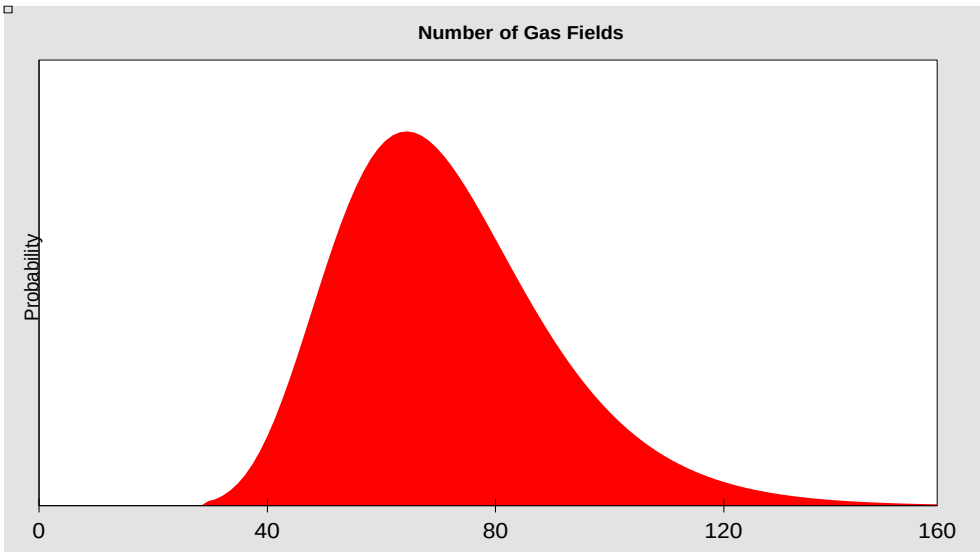
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	12.39	12.39
Median	12.01	12.00
Mode	---	---
Standard Deviation	2.97	2.97
Variance	8.82	8.82
Skewness	0.7801	0.7906
Kurtosis	3.81	3.85
Coefficient of Variability	0.2397	0.2396
Minimum	4.94	2.00
Maximum	26.00	26.00
Range Width	21.06	24.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.94	2.00
95%	8.26	8.27
90%	8.95	8.95
85%	9.43	9.45
80%	9.86	9.88
75%	10.25	10.26
70%	10.63	10.62
65%	10.97	10.96
60%	11.31	11.30
55%	11.65	11.65
50%	12.01	12.00
45%	12.37	12.36
40%	12.74	12.74
35%	13.15	13.15
30%	13.59	13.60
25%	14.08	14.10
20%	14.69	14.68
15%	15.40	15.40
10%	16.36	16.36
5%	17.92	17.90
0%	26.00	26.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	70.58	72.58
Standard Deviation	19.62	19.62
Selected range is from -Infinity to 158.00		2.00 to 160.00



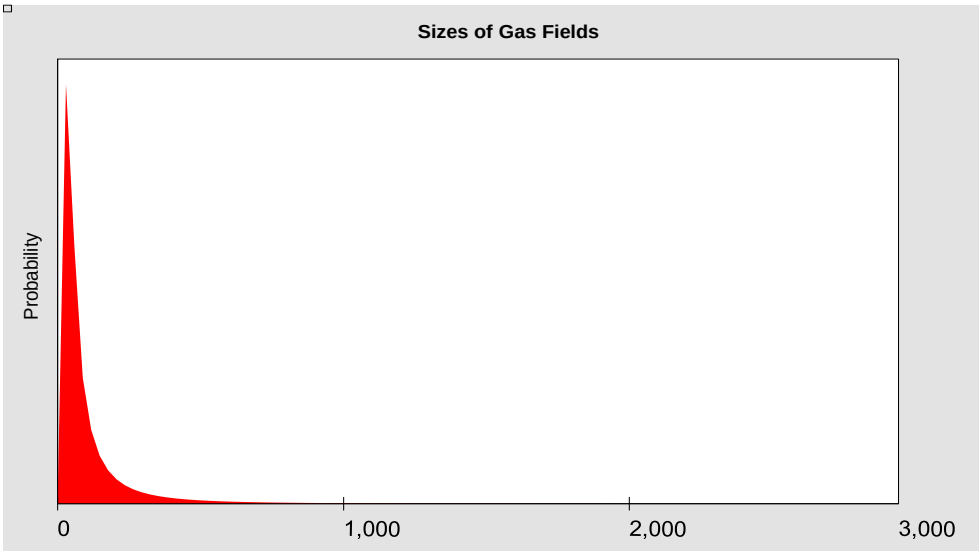
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	72.53	72.48
Median	70.04	69.98
Mode	---	---
Standard Deviation	19.50	19.37
Variance	380.14	375.15
Skewness	0.7673	0.7592
Kurtosis	3.78	3.77
Coefficient of Variability	0.2688	0.2672
Minimum	22.66	2.00
Maximum	159.88	160.00
Range Width	137.22	158.00
Mean Standard Error	0.09	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	22.66	2.00
95%	45.33	45.41
90%	49.81	49.93
85%	53.17	53.24
80%	56.00	56.04
75%	58.48	58.56
70%	60.88	60.92
65%	63.15	63.20
60%	65.40	65.44
55%	67.69	67.69
50%	70.04	69.98
45%	72.40	72.35
40%	74.91	74.84
35%	77.58	77.50
30%	80.56	80.42
25%	83.81	83.69
20%	87.53	87.49
15%	92.32	92.13
10%	98.60	98.33
5%	108.49	108.25
0%	159.88	160.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	108.96	114.96
Standard Deviation	260.83	260.83
Selected range is from -Infinity to 2,994.00		6.00 to 3,000.00



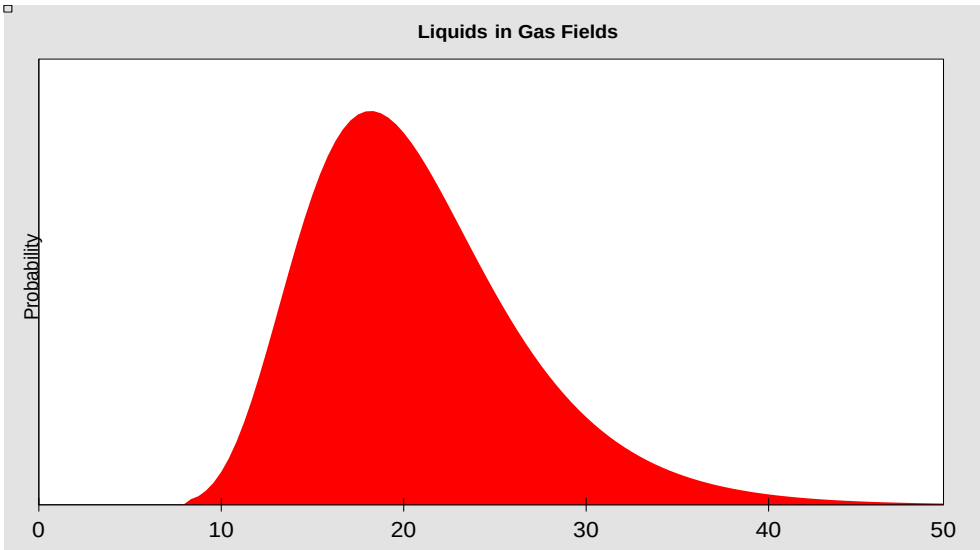
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	110.55	110.34
Median	47.88	47.93
Mode	---	---
Standard Deviation	197.39	198.51
Variance	38,961.10	39,405.47
Skewness	5.60	5.66
Kurtosis	48.58	49.51
Coefficient of Variability	1.79	1.80
Minimum	6.24	6.00
Maximum	2,959.94	3,000.00
Range Width	2,953.70	2,994.00
Mean Standard Error	0.88	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.24	6.00
95%	10.31	10.33
90%	13.18	13.15
85%	16.04	16.03
80%	19.25	19.13
75%	22.54	22.53
70%	26.40	26.34
65%	30.72	30.64
60%	35.62	35.56
55%	41.20	41.25
50%	47.88	47.93
45%	56.01	55.86
40%	65.51	65.46
35%	77.21	77.33
30%	92.54	92.40
25%	113.30	112.25
20%	141.21	139.73
15%	183.67	180.82
10%	255.72	250.74
5%	405.17	407.92
0%	2,959.94	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	18.93	20.93
Standard Deviation	6.16	6.16
Selected range is from -Infinity to 48.00		2.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.89	20.90
Median	19.95	19.99
Mode	---	---
Standard Deviation	6.08	6.07
Variance	37.02	36.87
Skewness	0.9050	0.8936
Kurtosis	4.14	4.11
Coefficient of Variability	0.2912	0.2906
Minimum	6.44	2.00
Maximum	49.94	50.00
Range Width	43.50	48.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.44	2.00
95%	12.71	12.68
90%	13.99	13.98
85%	14.96	14.95
80%	15.79	15.78
75%	16.53	16.53
70%	17.21	17.24
65%	17.87	17.92
60%	18.56	18.60
55%	19.23	19.29
50%	19.95	19.99
45%	20.70	20.72
40%	21.48	21.50
35%	22.30	22.33
30%	23.24	23.25
25%	24.32	24.28
20%	25.50	25.49
15%	27.03	26.98
10%	29.03	28.99
5%	32.15	32.25
0%	49.94	50.00

End of Assumptions

Simulation started on 5/22/2009 at 15:06:02
Simulation stopped on 5/22/2009 at 15:44:46