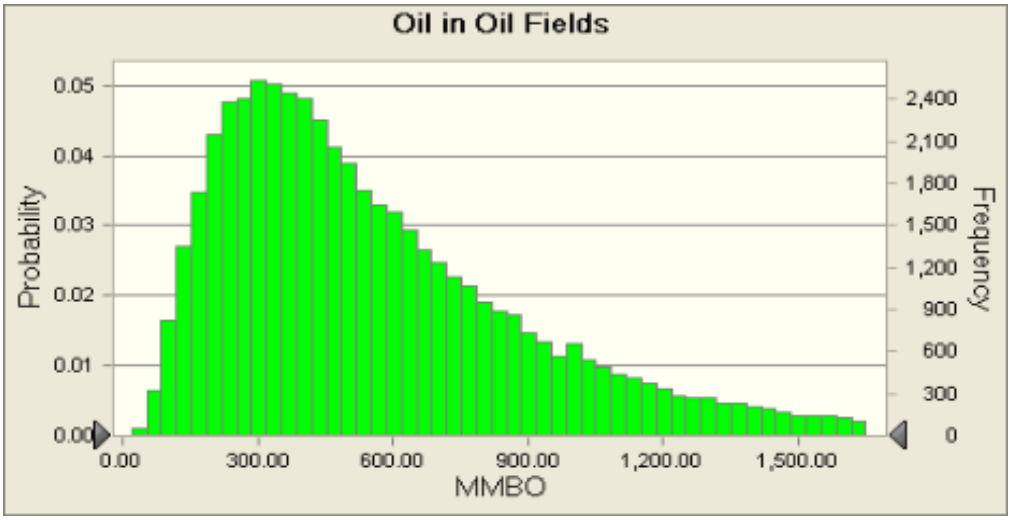
35070102
Offshore Western Cenozoic Rifts
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 19.75 to 3,384.42
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.71



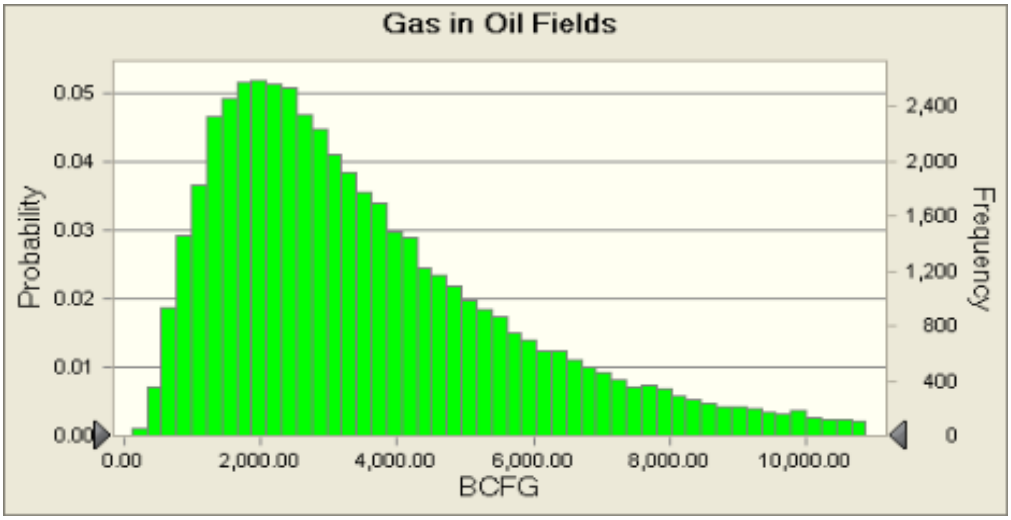
Statistics:	Forecast values
Trials	50,000
Mean	578.10
Median	479.04
Mode	---
Standard Deviation	383.28
Variance	146,904.08
Skewness	1.53
Kurtosis	6.29
Coefficient of Variability	0.6630
Minimum	19.75
Maximum	3,384.42
Range Width	3,364.67
Mean Standard Error	1.71

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	19.75
95%	152.21
90%	197.28
85%	234.73
80%	269.47
75%	302.92
70%	336.27
65%	369.78
60%	403.36
55%	439.56
50%	479.03
45%	521.64
40%	570.85
35%	622.16
30%	681.95
25%	752.08
20%	836.60
15%	943.09
10%	1,091.43
5%	1,346.92
0%	3,384.42

Forecast: Gas in Oil Fields

Summary:
Entire range is from 104.88 to 24,156.05
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 11.45



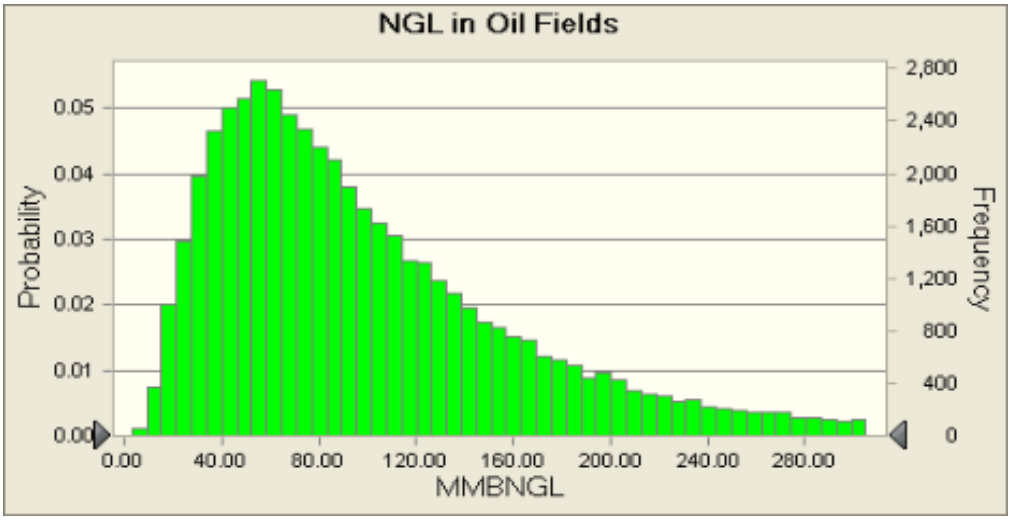
Statistics:	Forecast values
Trials	50,000
Mean	3,715.74
Median	3,041.20
Mode	---
Standard Deviation	2,559.56
Variance	6,551,363.24
Skewness	1.68
Kurtosis	7.11
Coefficient of Variability	0.6888
Minimum	104.88
Maximum	24,156.05
Range Width	24,051.17
Mean Standard Error	11.45

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	104.88
95%	942.41
90%	1,239.48
85%	1,473.25
80%	1,697.06
75%	1,910.01
70%	2,115.76
65%	2,335.29
60%	2,554.10
55%	2,786.27
50%	3,041.14
45%	3,315.27
40%	3,620.76
35%	3,959.60
30%	4,345.62
25%	4,815.30
20%	5,372.12
15%	6,093.03
10%	7,089.11
5%	8,812.38
0%	24,156.05

Forecast: NGL in Oil Fields

Summary:
Entire range is from 2.81 to 707.75
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.32



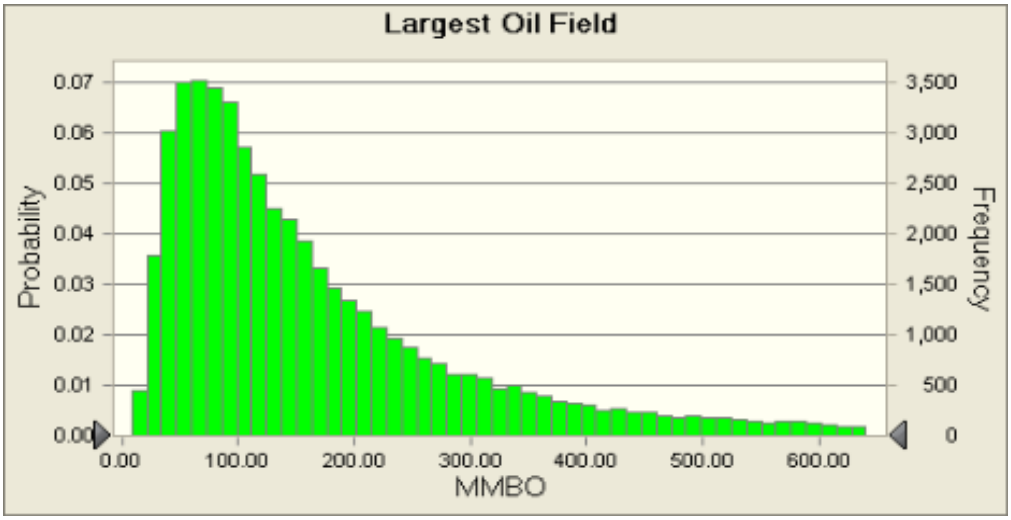
Statistics:	Forecast values
Trials	50,000
Mean	103.17
Median	84.05
Mode	---
Standard Deviation	72.20
Variance	5,213.10
Skewness	1.77
Kurtosis	7.81
Coefficient of Variability	0.6998
Minimum	2.81
Maximum	707.75
Range Width	704.94
Mean Standard Error	0.32

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	2.81
95%	25.86
90%	34.00
85%	40.49
80%	46.67
75%	52.64
70%	58.36
65%	64.18
60%	70.44
55%	77.07
50%	84.05
45%	91.58
40%	100.25
35%	109.86
30%	120.69
25%	133.20
20%	148.81
15%	168.62
10%	197.37
5%	246.93
0%	707.75

Forecast: Largest Oil Field

Summary:
Entire range is from 7.92 to 998.62
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.73



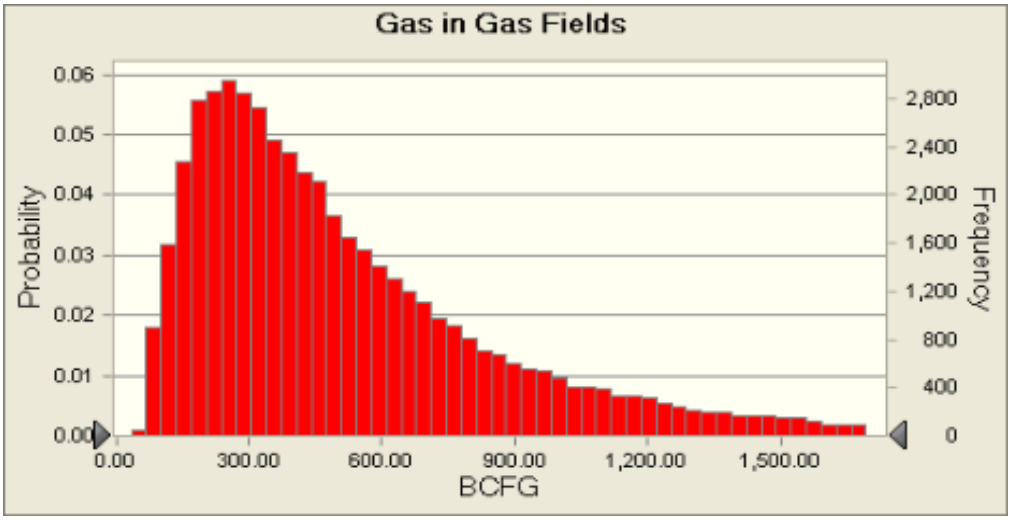
Statistics:	Forecast values
Trials	50,000
Mean	181.03
Median	126.88
Mode	---
Standard Deviation	164.10
Variance	26,927.87
Skewness	2.09
Kurtosis	7.97
Coefficient of Variability	0.9065
Minimum	7.92
Maximum	998.62
Range Width	990.70
Mean Standard Error	0.73

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	7.92
95%	35.13
90%	45.65
85%	54.98
80%	64.32
75%	73.23
70%	82.65
65%	92.07
60%	102.49
55%	114.05
50%	126.88
45%	141.26
40%	157.09
35%	175.80
30%	198.74
25%	226.38
20%	262.63
15%	312.92
10%	389.03
5%	533.91
0%	998.62

Forecast: Gas in Gas Fields

Summary:
Entire range is from 34.97 to 5,014.86
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.84



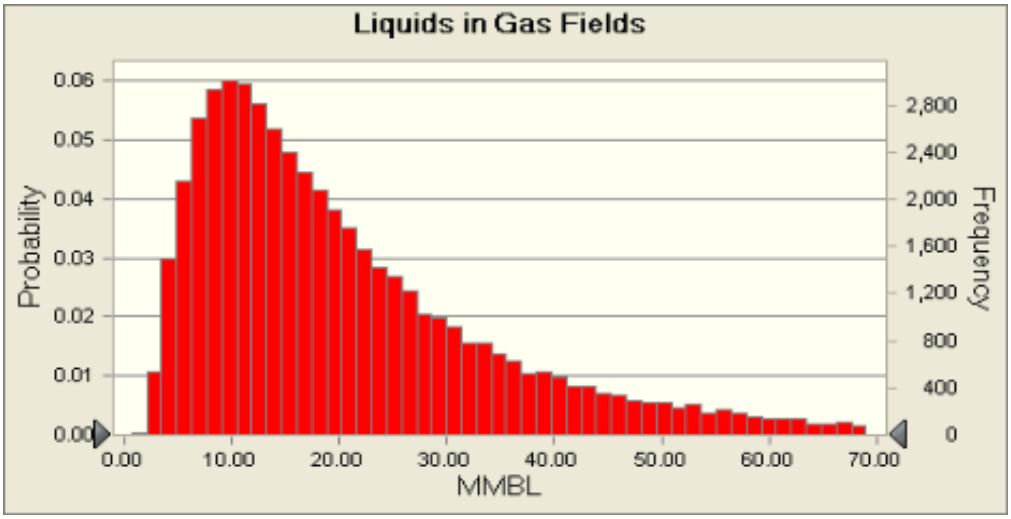
Statistics:	Forecast values
Trials	50,000
Mean	542.90
Median	426.34
Mode	---
Standard Deviation	411.07
Variance	168,980.68
Skewness	2.04
Kurtosis	9.20
Coefficient of Variability	0.7572
Minimum	34.97
Maximum	5,014.86
Range Width	4,979.90
Mean Standard Error	1.84

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	34.97
95%	135.90
90%	172.94
85%	202.96
80%	232.51
75%	261.40
70%	290.12
65%	320.78
60%	353.47
55%	388.22
50%	426.33
45%	465.04
40%	510.49
35%	562.43
30%	622.69
25%	691.68
20%	779.37
15%	896.77
10%	1,067.26
5%	1,360.05
0%	5,014.86

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.70 to 225.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



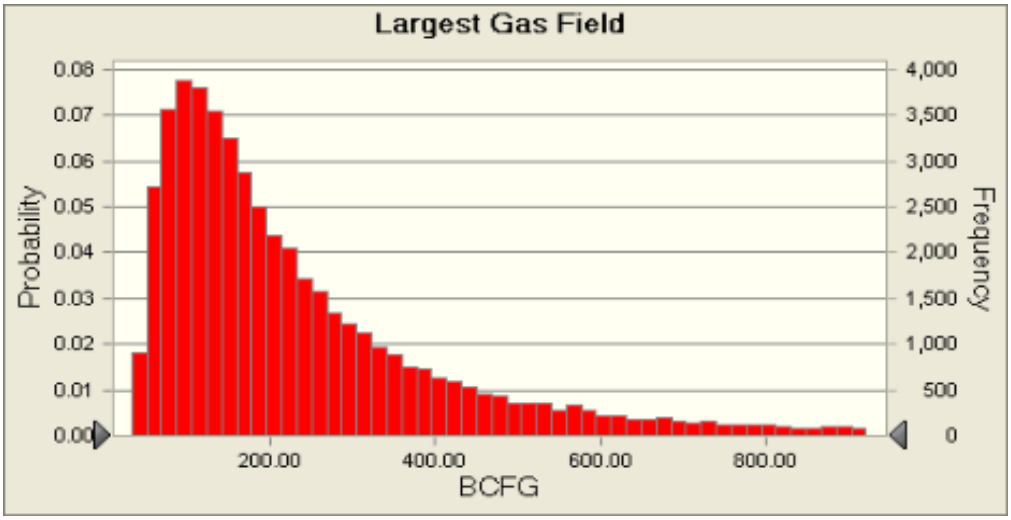
Statistics:	Forecast values
Trials	50,000
Mean	21.74
Median	16.91
Mode	---
Standard Deviation	16.89
Variance	285.19
Skewness	2.16
Kurtosis	10.23
Coefficient of Variability	0.7769
Minimum	0.70
Maximum	225.53
Range Width	224.83
Mean Standard Error	0.08

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.70
95%	5.21
90%	6.72
85%	7.96
80%	9.16
75%	10.32
70%	11.46
65%	12.69
60%	14.01
55%	15.39
50%	16.91
45%	18.54
40%	20.36
35%	22.42
30%	24.87
25%	27.70
20%	31.27
15%	35.93
10%	42.84
5%	54.99
0%	225.53

Forecast: Largest Gas Field

Summary:
Entire range is from 32.51 to 1,991.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.06



Statistics:	Forecast values
Trials	50,000
Mean	257.27
Median	180.88
Mode	---
Standard Deviation	237.01
Variance	56,175.71
Skewness	2.74
Kurtosis	13.18
Coefficient of Variability	0.9212
Minimum	32.51
Maximum	1,991.22
Range Width	1,958.71
Mean Standard Error	1.06

Forecast: Largest Gas Field (continued)

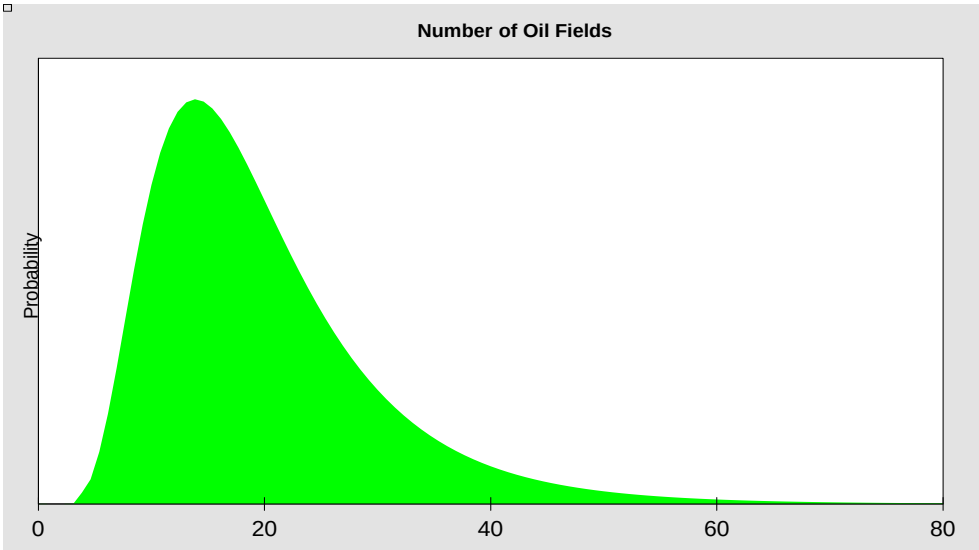
Percentiles:	BCFG
100%	32.51
95%	62.35
90%	76.17
85%	88.46
80%	100.08
75%	111.72
70%	123.90
65%	136.56
60%	150.08
55%	164.73
50%	180.88
45%	199.68
40%	220.94
35%	245.19
30%	273.68
25%	310.73
20%	356.80
15%	421.48
10%	524.15
5%	722.74
0%	1,991.22

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	19.24	20.24
Standard Deviation	10.19	10.19
Selected range is from -Infinity to 79.00		1.00 to 80.00



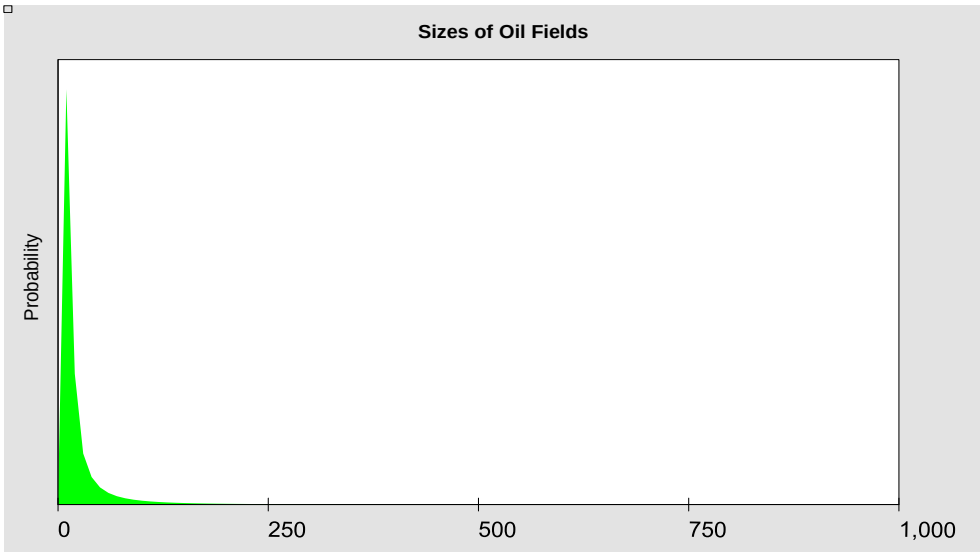
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.18	20.16
Median	17.97	17.99
Mode	---	---
Standard Deviation	9.97	9.92
Variance	99.50	98.46
Skewness	1.50	1.47
Kurtosis	6.32	6.21
Coefficient of Variability	0.4944	0.4921
Minimum	2.72	1.00
Maximum	79.55	80.00
Range Width	76.83	79.00
Mean Standard Error	0.04	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.72	1.00
95%	8.51	8.50
90%	10.00	9.99
85%	11.15	11.15
80%	12.20	12.18
75%	13.15	13.15
70%	14.09	14.09
65%	15.03	15.03
60%	15.97	15.98
55%	16.91	16.96
50%	17.97	17.99
45%	19.05	19.08
40%	20.22	20.27
35%	21.54	21.57
30%	22.97	23.04
25%	24.68	24.74
20%	26.82	26.80
15%	29.47	29.41
10%	33.23	33.07
5%	39.40	39.34
0%	79.55	80.00

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



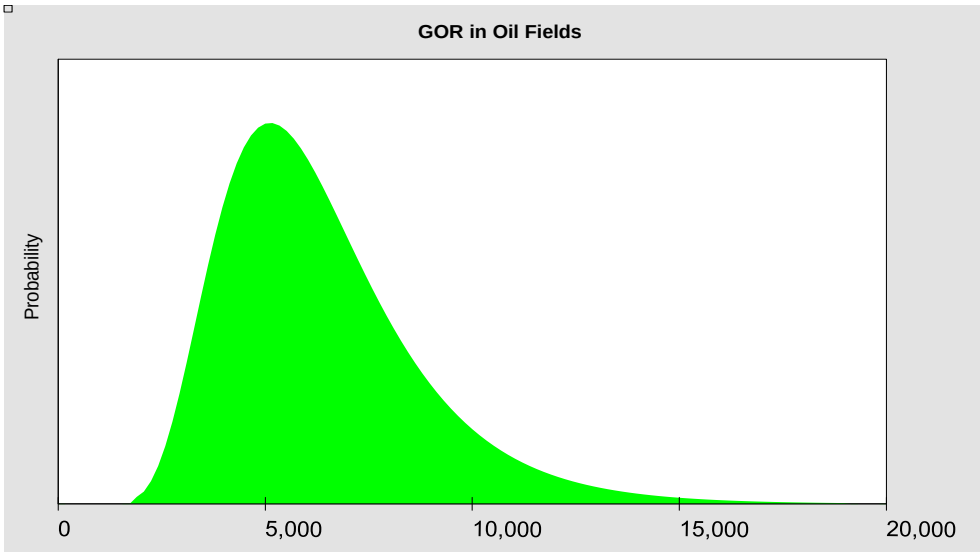
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	28.67	28.73
Median	11.92	11.99
Mode	---	---
Standard Deviation	57.93	57.05
Variance	3,356.43	3,255.20
Skewness	7.31	7.08
Kurtosis	79.77	74.02
Coefficient of Variability	2.02	1.99
Minimum	5.01	5.00
Maximum	994.81	1,000.00
Range Width	989.80	995.00
Mean Standard Error	0.26	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.01	5.00
95%	5.49	5.50
90%	5.89	5.90
85%	6.31	6.33
80%	6.81	6.81
75%	7.37	7.37
70%	7.99	8.01
65%	8.73	8.77
60%	9.61	9.65
55%	10.64	10.71
50%	11.92	11.99
45%	13.47	13.54
40%	15.36	15.48
35%	17.82	17.95
30%	21.12	21.18
25%	25.42	25.58
20%	31.80	31.88
15%	41.68	41.70
10%	58.86	59.24
5%	103.52	101.53
0%	994.81	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	5,940.55	6,440.55
Standard Deviation	2,424.84	2,424.84
Selected range is from -Infinity to 18,500.00		500.00 to 19,000.00



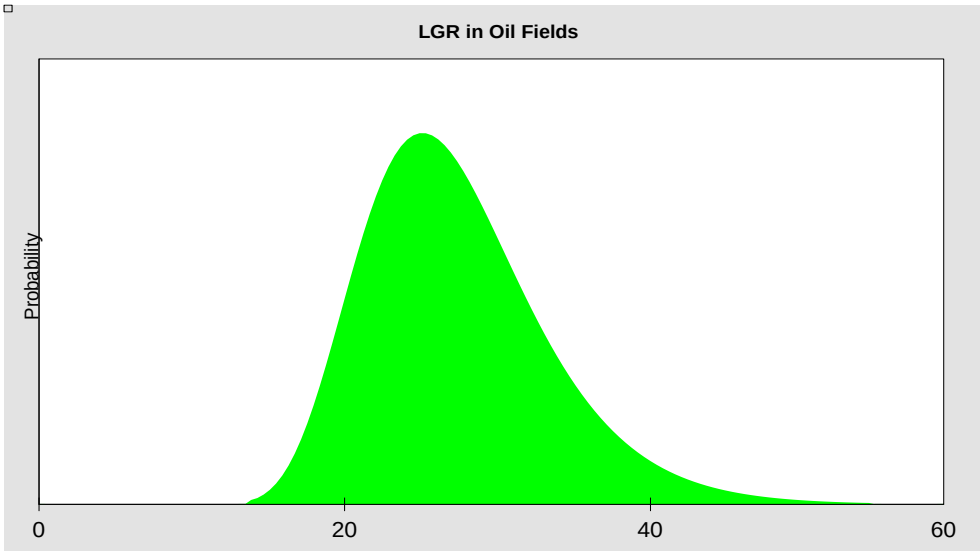
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6,455.41	6,425.72
Median	6,022.44	5,997.29
Mode	---	---
Standard Deviation	2,385.24	2,379.31
Variance	5,689,362.15	5,661,122.98
Skewness	1.13	1.13
Kurtosis	4.83	4.84
Coefficient of Variability	0.3695	0.3703
Minimum	1,400.99	500.00
Maximum	18,987.63	19,000.00
Range Width	17,586.64	18,500.00
Mean Standard Error	10.67	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1,400.99	500.00
95%	3,402.11	3,383.05
90%	3,861.83	3,824.88
85%	4,190.61	4,160.61
80%	4,480.68	4,451.43
75%	4,747.91	4,719.25
70%	5,006.68	4,975.19
65%	5,250.84	5,226.16
60%	5,501.81	5,477.29
55%	5,756.81	5,732.93
50%	6,022.34	5,997.29
45%	6,299.68	6,274.97
40%	6,594.43	6,571.42
35%	6,929.21	6,893.76
30%	7,289.00	7,251.86
25%	7,694.59	7,660.66
20%	8,184.82	8,144.73
15%	8,787.73	8,749.77
10%	9,605.78	9,577.79
5%	10,965.70	10,952.77
0%	18,987.63	19,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	22.79	27.79
Standard Deviation	6.16	6.16
Selected range is from -Infinity to 50.00		5.00 to 55.00



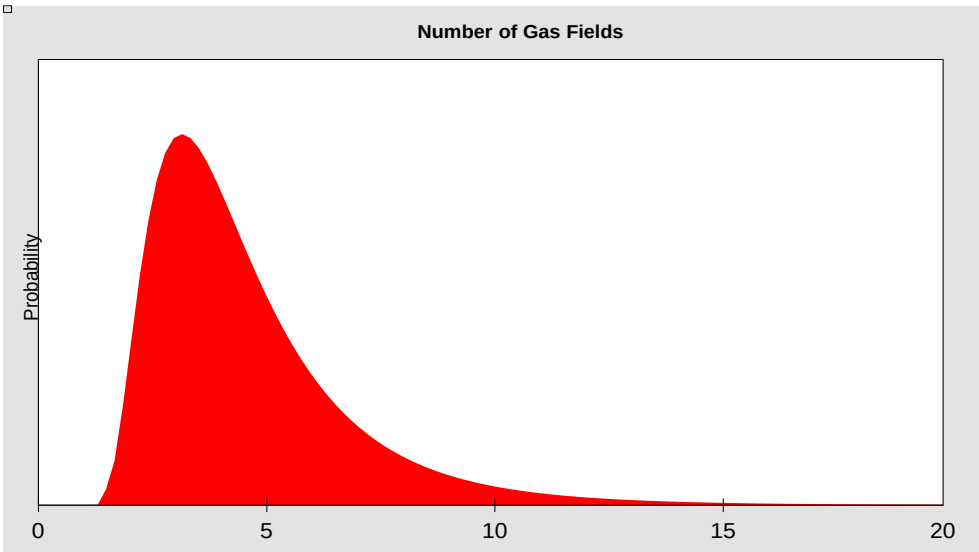
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.75	27.76
Median	26.95	26.99
Mode	---	---
Standard Deviation	6.08	6.09
Variance	37.02	37.04
Skewness	0.7423	0.7379
Kurtosis	3.75	3.72
Coefficient of Variability	0.2193	0.2192
Minimum	11.65	5.00
Maximum	54.98	55.00
Range Width	43.33	50.00
Mean Standard Error	0.03	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.65	5.00
95%	19.17	19.21
90%	20.66	20.65
85%	21.76	21.70
80%	22.63	22.59
75%	23.37	23.39
70%	24.11	24.13
65%	24.80	24.85
60%	25.50	25.56
55%	26.23	26.27
50%	26.95	26.99
45%	27.74	27.74
40%	28.52	28.52
35%	29.37	29.36
30%	30.29	30.28
25%	31.28	31.30
20%	32.51	32.49
15%	33.91	33.95
10%	35.86	35.88
5%	38.95	38.98
0%	54.98	55.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	3.59	4.59
Standard Deviation	2.35	2.35
Selected range is from -Infinity to 19.00		1.00 to 20.00



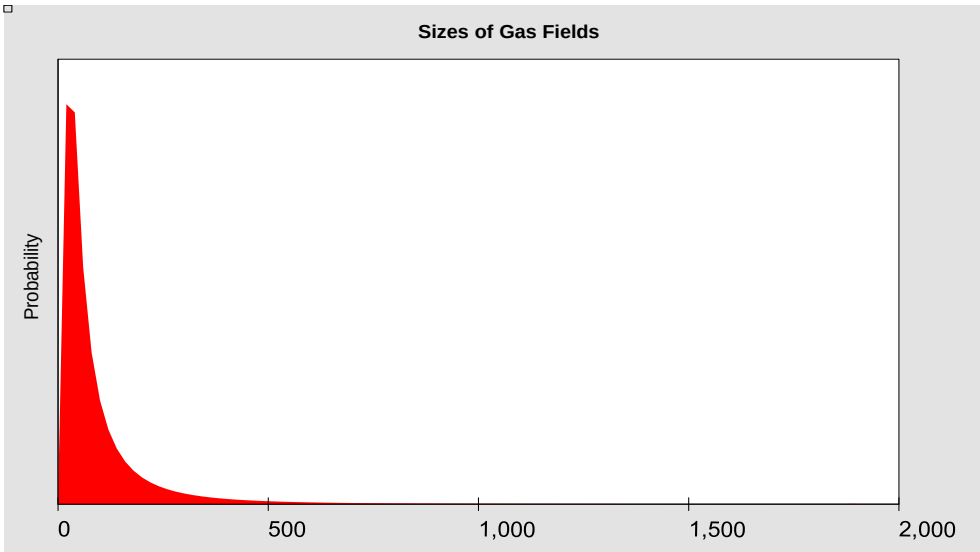
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.59	4.57
Median	4.01	4.00
Mode	---	---
Standard Deviation	2.29	2.27
Variance	5.25	5.14
Skewness	1.80	1.82
Kurtosis	7.80	8.00
Coefficient of Variability	0.4994	0.4963
Minimum	1.20	1.00
Maximum	19.95	20.00
Range Width	18.75	19.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.20	1.00
95%	2.12	2.12
90%	2.39	2.39
85%	2.61	2.61
80%	2.82	2.81
75%	3.00	3.00
70%	3.19	3.19
65%	3.38	3.38
60%	3.58	3.58
55%	3.79	3.78
50%	4.01	4.00
45%	4.24	4.23
40%	4.50	4.49
35%	4.80	4.77
30%	5.13	5.10
25%	5.52	5.48
20%	6.00	5.95
15%	6.62	6.56
10%	7.48	7.43
5%	9.07	8.97
0%	19.95	20.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	91.21	121.21
Standard Deviation	175.81	175.81
Selected range is from -Infinity to 1,970.00		30.00 to 2,000.00



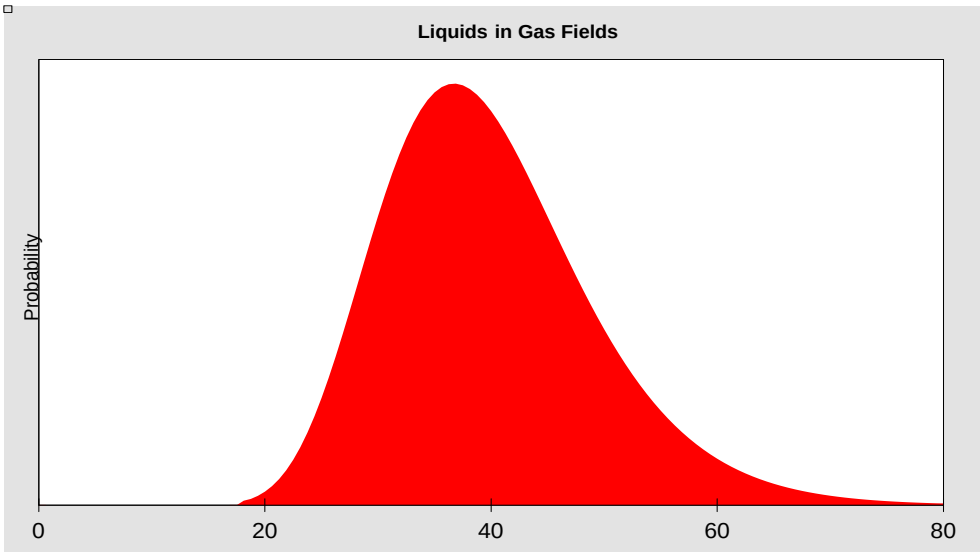
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	118.71	118.32
Median	72.38	71.93
Mode	---	---
Standard Deviation	142.04	143.84
Variance	20,174.66	20,690.29
Skewness	4.67	4.86
Kurtosis	34.97	37.74
Coefficient of Variability	1.20	1.22
Minimum	30.14	30.00
Maximum	1,988.14	2,000.00
Range Width	1,958.00	1,970.00
Mean Standard Error	0.64	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.14	30.00
95%	35.45	35.41
90%	38.64	38.51
85%	41.64	41.54
80%	44.78	44.71
75%	48.32	48.11
70%	52.08	51.84
65%	56.28	55.96
60%	60.97	60.60
55%	66.38	65.86
50%	72.38	71.93
45%	79.67	79.03
40%	88.18	87.47
35%	98.60	97.72
30%	111.21	110.50
25%	128.45	127.00
20%	150.57	149.37
15%	183.33	182.00
10%	236.38	235.88
5%	352.24	352.04
0%	1,988.14	2,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	39.08	40.08
Standard Deviation	9.39	9.39
Selected range is from -Infinity to 79.00		1.00 to 80.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	40.05	40.04
Median	38.98	38.99
Mode	---	---
Standard Deviation	9.32	9.28
Variance	86.91	86.12
Skewness	0.6667	0.6525
Kurtosis	3.56	3.54
Coefficient of Variability	0.2328	0.2318
Minimum	14.67	1.00
Maximum	79.63	80.00
Range Width	64.96	79.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	14.67	1.00
95%	26.65	26.74
90%	29.04	29.05
85%	30.70	30.72
80%	32.11	32.13
75%	33.38	33.38
70%	34.57	34.55
65%	35.72	35.68
60%	36.79	36.78
55%	37.86	37.88
50%	38.98	38.99
45%	40.11	40.14
40%	41.29	41.34
35%	42.55	42.61
30%	43.98	44.00
25%	45.53	45.56
20%	47.40	47.35
15%	49.59	49.53
10%	52.52	52.41
5%	57.05	56.98
0%	79.63	80.00

End of Assumptions

Simulation started on 12/15/2009 at 16:36:53
Simulation stopped on 12/15/2009 at 17:22:32