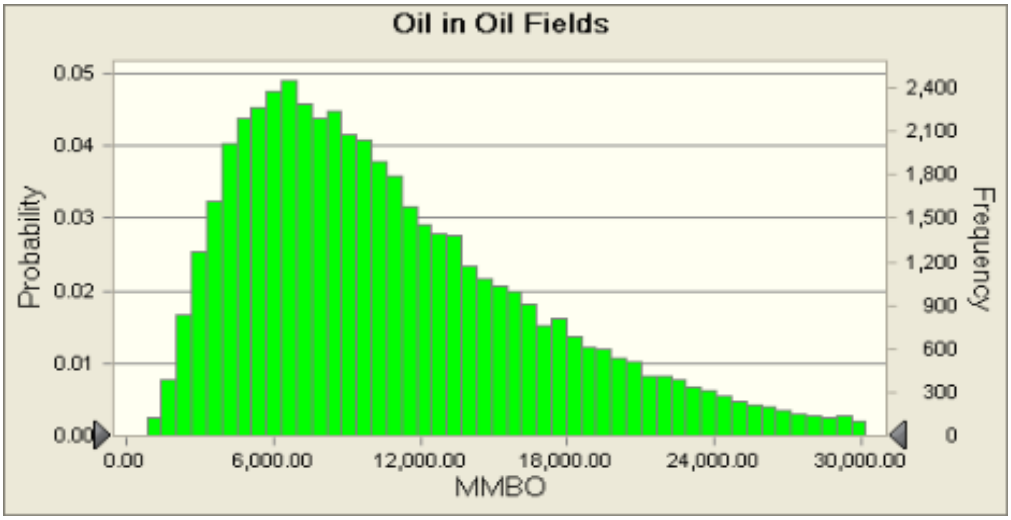
60360102
Salt Structured Deep Water Sandstones
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 169.20 to 66,020.83
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 30.44



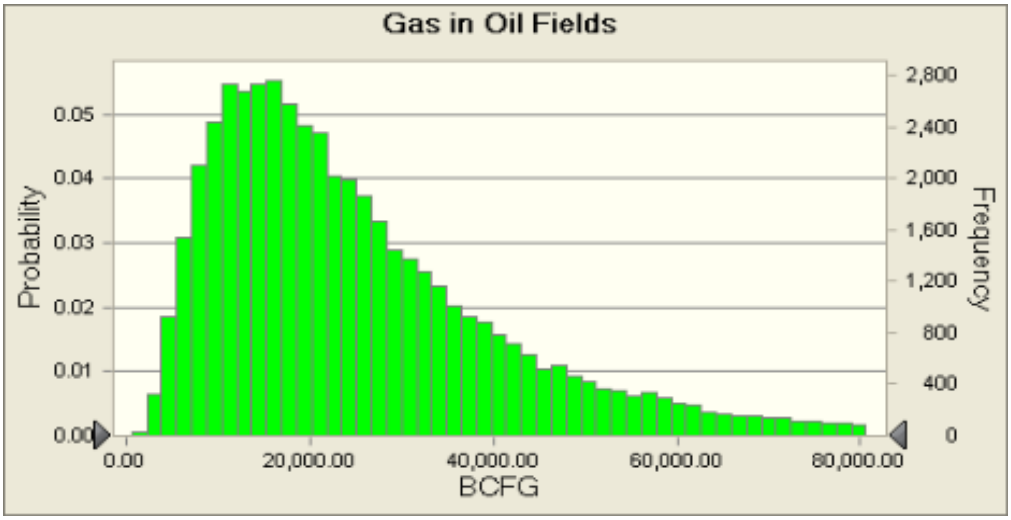
Statistics:	Forecast values
Trials	50,000
Mean	11,144.52
Median	9,577.74
Mode	---
Standard Deviation	6,806.60
Variance	46,329,848.18
Skewness	1.35
Kurtosis	5.51
Coefficient of Variability	0.6108
Minimum	169.20
Maximum	66,020.83
Range Width	65,851.63
Mean Standard Error	30.44

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	169.20
95%	3,189.82
90%	4,090.06
85%	4,817.75
80%	5,498.42
75%	6,151.98
70%	6,788.27
65%	7,442.10
60%	8,140.19
55%	8,829.81
50%	9,577.54
45%	10,339.56
40%	11,190.99
35%	12,187.03
30%	13,279.44
25%	14,529.70
20%	16,032.13
15%	17,872.10
10%	20,369.91
5%	24,307.18
0%	66,020.83

Forecast: Gas in Oil Fields

Summary:
Entire range is from 544.26 to 266,621.95
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 86.58



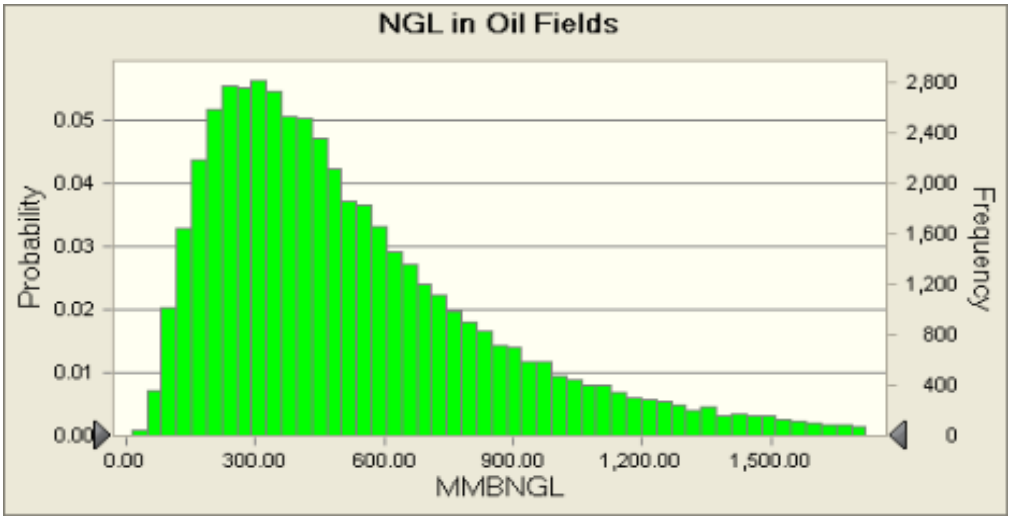
Statistics:	Forecast values
Trials	50,000
Mean	26,417.43
Median	21,345.14
Mode	---
Standard Deviation	19,360.81
Variance	374,840,999.86
Skewness	2.31
Kurtosis	12.50
Coefficient of Variability	0.7329
Minimum	544.26
Maximum	266,621.95
Range Width	266,077.69
Mean Standard Error	86.58

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	544.26
95%	6,800.33
90%	8,764.74
85%	10,430.06
80%	11,926.86
75%	13,447.27
70%	14,933.39
65%	16,416.46
60%	17,984.47
55%	19,649.82
50%	21,345.11
45%	23,303.82
40%	25,367.24
35%	27,648.89
30%	30,360.98
25%	33,522.52
20%	37,481.19
15%	42,372.85
10%	49,871.11
5%	62,675.48
0%	266,621.95

Forecast: NGL in Oil Fields

Summary:
Entire range is from 11.28 to 6,418.70
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.86



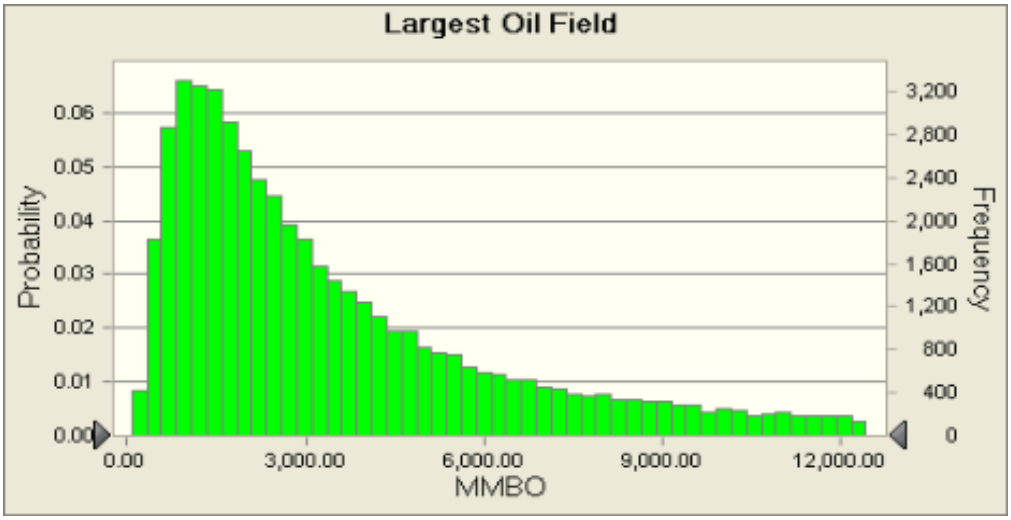
Statistics:	Forecast values
Trials	50,000
Mean	555.23
Median	445.51
Mode	---
Standard Deviation	416.37
Variance	173,364.82
Skewness	2.49
Kurtosis	14.60
Coefficient of Variability	0.7499
Minimum	11.28
Maximum	6,418.70
Range Width	6,407.42
Mean Standard Error	1.86

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	11.28
95%	140.86
90%	182.57
85%	216.74
80%	248.17
75%	280.16
70%	310.92
65%	341.77
60%	375.38
55%	410.40
50%	445.50
45%	484.80
40%	530.09
35%	578.59
30%	634.86
25%	701.47
20%	785.34
15%	894.40
10%	1,053.05
5%	1,336.47
0%	6,418.70

Forecast: Largest Oil Field

Summary:
Entire range is from 71.78 to 14,999.15
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.01



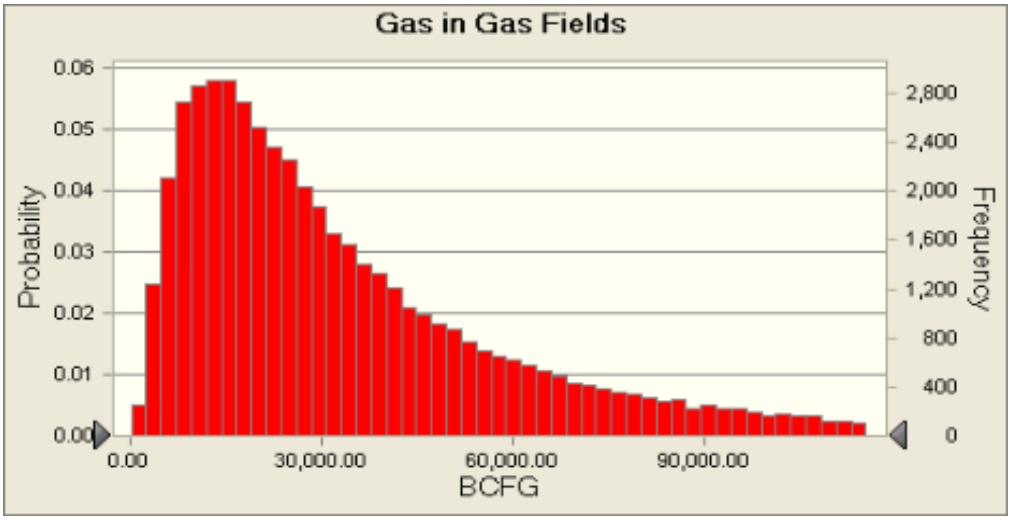
Statistics:	Forecast values
Trials	50,000
Mean	3,656.24
Median	2,585.38
Mode	---
Standard Deviation	3,131.67
Variance	9,807,384.66
Skewness	1.48
Kurtosis	4.71
Coefficient of Variability	0.8565
Minimum	71.78
Maximum	14,999.15
Range Width	14,927.37
Mean Standard Error	14.01

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	71.78
95%	601.39
90%	820.66
85%	1,013.26
80%	1,202.82
75%	1,397.26
70%	1,594.67
65%	1,810.67
60%	2,046.19
55%	2,303.73
50%	2,585.34
45%	2,909.16
40%	3,282.04
35%	3,714.41
30%	4,223.95
25%	4,867.36
20%	5,684.00
15%	6,804.41
10%	8,375.15
5%	10,736.91
0%	14,999.15

Forecast: Gas in Gas Fields

Summary:
Entire range is from 264.60 to 296,638.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 128.33



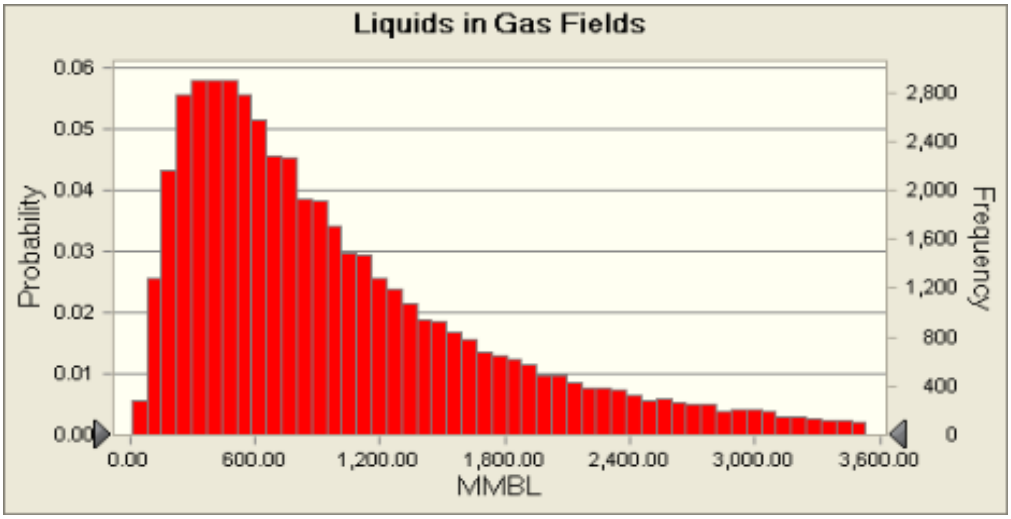
Statistics:	Forecast values
Trials	50,000
Mean	34,864.81
Median	26,221.62
Mode	---
Standard Deviation	28,694.43
Variance	823,370,266.40
Skewness	1.80
Kurtosis	7.43
Coefficient of Variability	0.8230
Minimum	264.60
Maximum	296,638.28
Range Width	296,373.68
Mean Standard Error	128.33

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	264.60
95%	6,210.37
90%	8,516.78
85%	10,579.77
80%	12,660.69
75%	14,671.87
70%	16,696.39
65%	18,847.39
60%	21,146.55
55%	23,617.86
50%	26,221.56
45%	29,131.13
40%	32,504.83
35%	36,259.72
30%	40,681.89
25%	46,095.63
20%	52,631.59
15%	61,441.46
10%	73,800.50
5%	94,047.45
0%	296,638.28

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 9.57 to 10,056.82
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.95



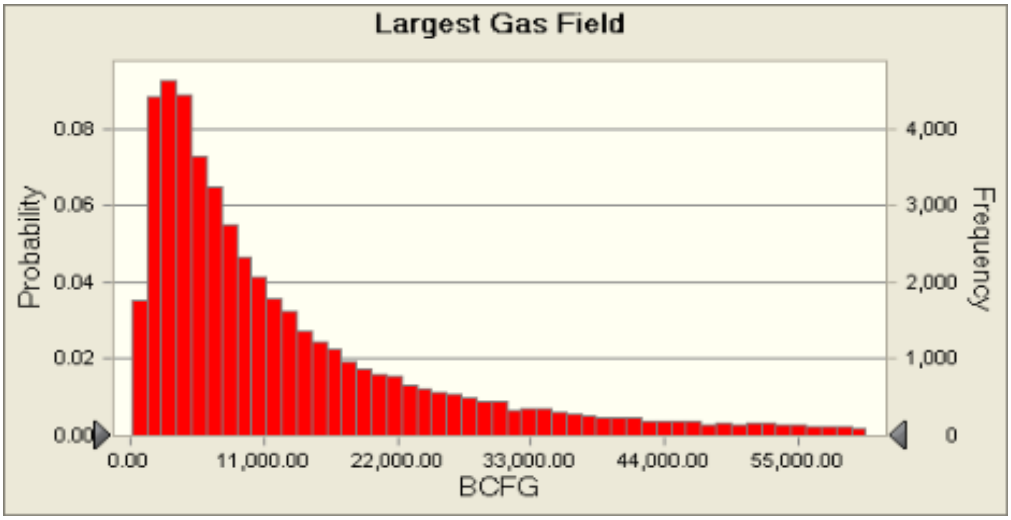
Statistics:	Forecast values
Trials	50,000
Mean	1,063.43
Median	797.14
Mode	---
Standard Deviation	882.36
Variance	778,552.44
Skewness	1.84
Kurtosis	7.77
Coefficient of Variability	0.8297
Minimum	9.57
Maximum	10,056.82
Range Width	10,047.25
Mean Standard Error	3.95

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	9.57
95%	187.42
90%	259.67
85%	321.41
80%	383.98
75%	446.01
70%	507.68
65%	572.53
60%	641.57
55%	717.65
50%	797.13
45%	888.02
40%	987.31
35%	1,104.64
30%	1,237.60
25%	1,399.68
20%	1,605.43
15%	1,869.07
10%	2,253.00
5%	2,877.88
0%	10,056.82

Forecast: Largest Gas Field

Summary:
Entire range is from 77.83 to 89,995.18
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 72.99



Statistics:	Forecast values
Trials	50,000
Mean	14,873.51
Median	8,774.39
Mode	---
Standard Deviation	16,321.13
Variance	266,379,158.09
Skewness	2.07
Kurtosis	7.38
Coefficient of Variability	1.10
Minimum	77.83
Maximum	89,995.18
Range Width	89,917.35
Mean Standard Error	72.99

Forecast: Largest Gas Field (continued)

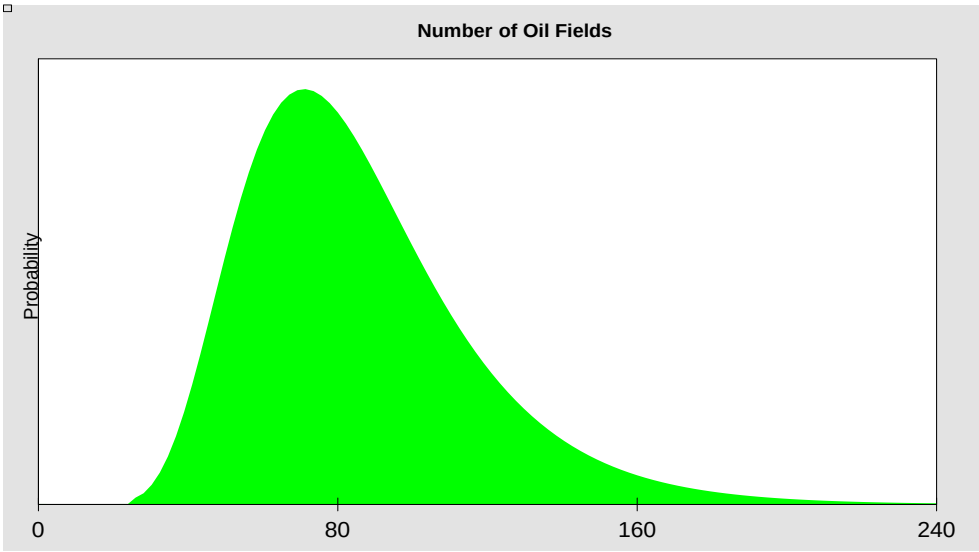
Percentiles:	BCFG
100%	77.83
95%	1,540.71
90%	2,238.60
85%	2,898.45
80%	3,556.91
75%	4,229.38
70%	4,938.82
65%	5,769.37
60%	6,661.92
55%	7,646.07
50%	8,774.22
45%	10,110.37
40%	11,671.10
35%	13,514.11
30%	15,899.31
25%	18,805.67
20%	22,711.77
15%	28,109.23
10%	36,390.86
5%	52,135.74
0%	89,995.18

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	84.24	85.24
Standard Deviation	31.17	31.17
Selected range is from -Infinity to 239.00		1.00 to 240.00



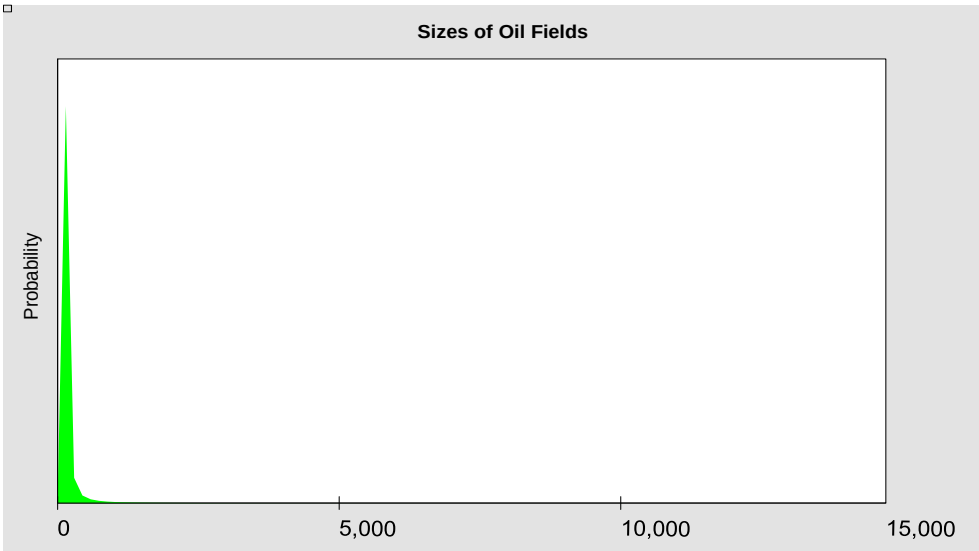
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	84.99	85.05
Median	79.87	79.96
Mode	---	---
Standard Deviation	30.49	30.65
Variance	929.38	939.25
Skewness	1.03	1.02
Kurtosis	4.55	4.48
Coefficient of Variability	0.3587	0.3603
Minimum	17.77	1.00
Maximum	239.91	240.00
Range Width	222.15	239.00
Mean Standard Error	0.14	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	17.77	1.00
95%	45.15	44.82
90%	51.05	50.90
85%	55.51	55.48
80%	59.57	59.42
75%	63.14	63.02
70%	66.63	66.45
65%	69.91	69.79
60%	73.13	73.12
55%	76.47	76.49
50%	79.86	79.96
45%	83.46	83.60
40%	87.31	87.46
35%	91.54	91.64
30%	96.15	96.26
25%	101.48	101.51
20%	107.44	107.69
15%	115.05	115.37
10%	125.46	125.80
5%	142.30	142.95
0%	239.91	240.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	164.52	169.52
Standard Deviation	2,701.80	2,701.80
Selected range is from -Infinity to 14,995.00		5.00 to 15,000.00



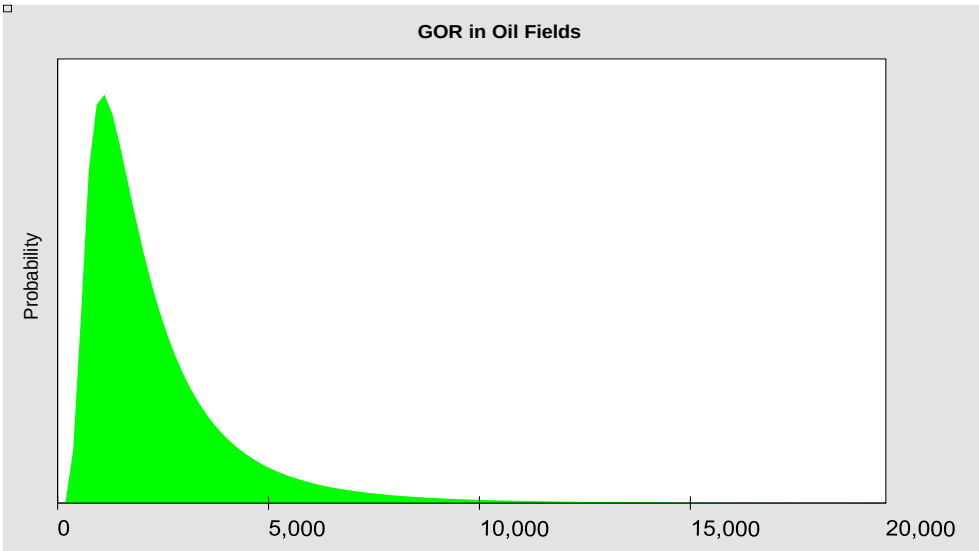
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	130.04	142.80
Median	15.00	14.97
Mode	---	---
Standard Deviation	572.11	591.02
Variance	327,308.50	349,299.37
Skewness	12.17	12.28
Kurtosis	204.74	201.96
Coefficient of Variability	4.40	4.14
Minimum	5.00	5.00
Maximum	14,917.62	15,000.00
Range Width	14,912.62	14,995.00
Mean Standard Error	2.56	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.00	5.00
95%	5.21	5.20
90%	5.48	5.48
85%	5.86	5.86
80%	6.37	6.36
75%	7.04	7.02
70%	7.91	7.88
65%	9.02	9.01
60%	10.49	10.48
55%	12.44	12.41
50%	15.00	14.97
45%	18.57	18.42
40%	23.31	23.15
35%	29.94	29.79
30%	39.87	39.43
25%	54.69	54.07
20%	79.11	77.79
15%	122.28	120.22
10%	215.30	210.09
5%	499.16	484.95
0%	14,917.62	15,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	2,146.20	2,396.20
Standard Deviation	2,055.48	2,055.48
Selected range is from -Infinity to 18,750.00		250.00 to 19,000.00



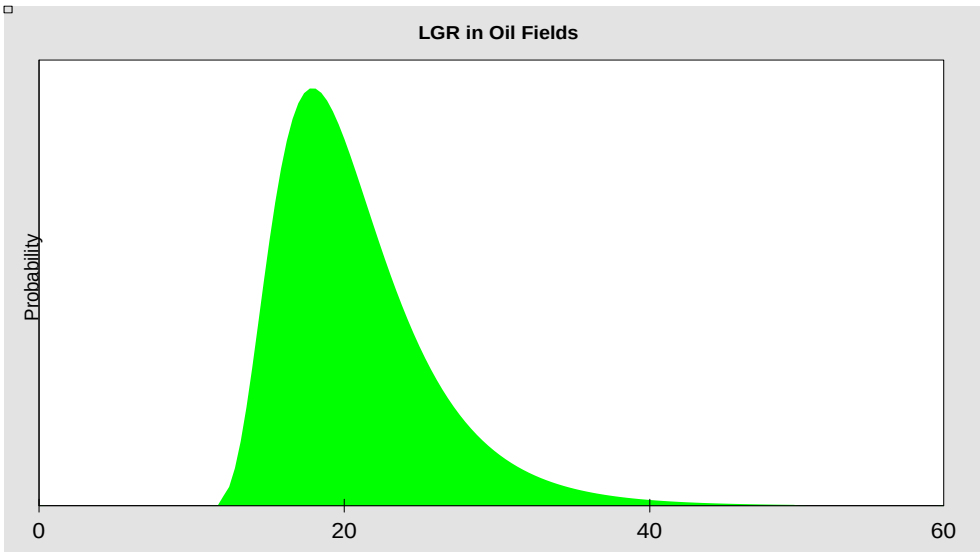
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,368.10	2,374.26
Median	1,800.37	1,798.43
Mode	---	---
Standard Deviation	1,913.78	1,926.09
Variance	3,662,558.28	3,709,829.83
Skewness	2.64	2.65
Kurtosis	13.52	13.65
Coefficient of Variability	0.8081	0.8112
Minimum	314.69	250.00
Maximum	18,912.72	19,000.00
Range Width	18,598.02	18,750.00
Mean Standard Error	8.56	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	314.69	250.00
95%	658.95	661.00
90%	796.46	800.94
85%	916.03	921.37
80%	1,030.77	1,035.59
75%	1,144.49	1,148.94
70%	1,261.77	1,264.59
65%	1,381.40	1,384.99
60%	1,510.95	1,512.41
55%	1,651.02	1,649.28
50%	1,800.36	1,798.43
45%	1,968.68	1,963.46
40%	2,153.12	2,149.13
35%	2,359.72	2,362.15
30%	2,609.07	2,612.46
25%	2,914.97	2,915.82
20%	3,300.09	3,299.42
15%	3,816.10	3,816.15
10%	4,568.88	4,590.78
5%	5,986.42	6,050.26
0%	18,912.72	19,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	11.06	21.06
Standard Deviation	5.22	5.22
Selected range is from -Infinity to 40.00		10.00 to 50.00



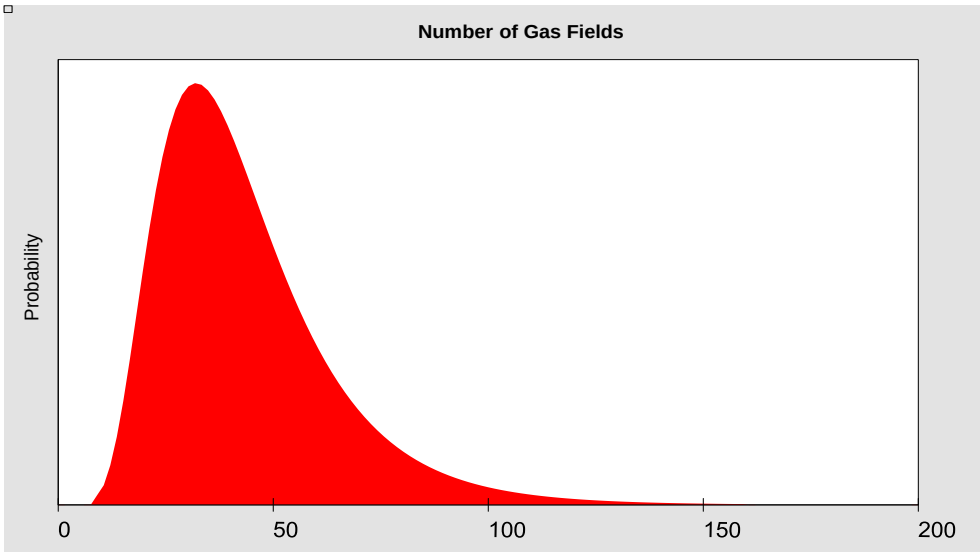
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.02	21.02
Median	19.97	19.99
Mode	---	---
Standard Deviation	5.15	5.11
Variance	26.48	26.06
Skewness	1.35	1.31
Kurtosis	5.69	5.52
Coefficient of Variability	0.2448	0.2428
Minimum	11.56	10.00
Maximum	50.00	50.00
Range Width	38.44	40.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.56	10.00
95%	14.78	14.78
90%	15.63	15.63
85%	16.26	16.28
80%	16.84	16.85
75%	17.37	17.39
70%	17.88	17.90
65%	18.39	18.41
60%	18.90	18.92
55%	19.43	19.45
50%	19.97	19.99
45%	20.55	20.57
40%	21.17	21.20
35%	21.86	21.88
30%	22.62	22.64
25%	23.49	23.52
20%	24.52	24.57
15%	25.85	25.89
10%	27.73	27.73
5%	30.91	30.83
0%	50.00	50.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	43.25	44.25
Standard Deviation	20.73	20.73
Selected range is from -Infinity to 159.00		1.00 to 160.00



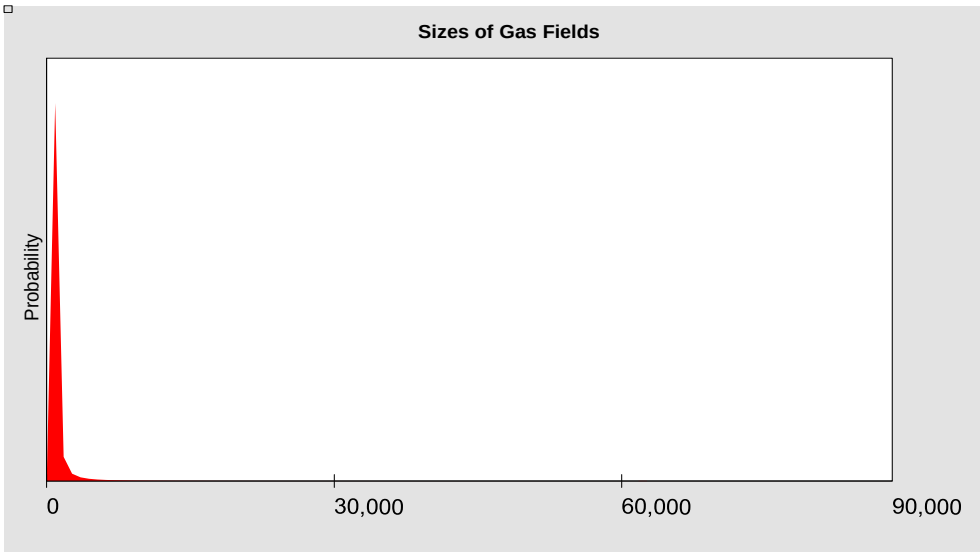
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	44.14	44.11
Median	39.97	39.98
Mode	---	---
Standard Deviation	20.25	20.26
Variance	410.02	410.49
Skewness	1.33	1.33
Kurtosis	5.59	5.60
Coefficient of Variability	0.4588	0.4593
Minimum	5.58	1.00
Maximum	159.98	160.00
Range Width	154.41	159.00
Mean Standard Error	0.09	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.58	1.00
95%	19.59	19.45
90%	22.83	22.77
85%	25.40	25.33
80%	27.66	27.59
75%	29.73	29.69
70%	31.77	31.71
65%	33.82	33.72
60%	35.80	35.74
55%	37.83	37.81
50%	39.97	39.98
45%	42.20	42.27
40%	44.65	44.73
35%	47.33	47.43
30%	50.37	50.46
25%	54.01	53.94
20%	58.10	58.11
15%	63.40	63.38
10%	70.70	70.69
5%	83.16	83.06
0%	159.98	160.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	987.14	1,017.14
Standard Deviation	16,210.78	16,210.78
Selected range is from -Infinity to 89,970.00		30.00 to 90,000.00



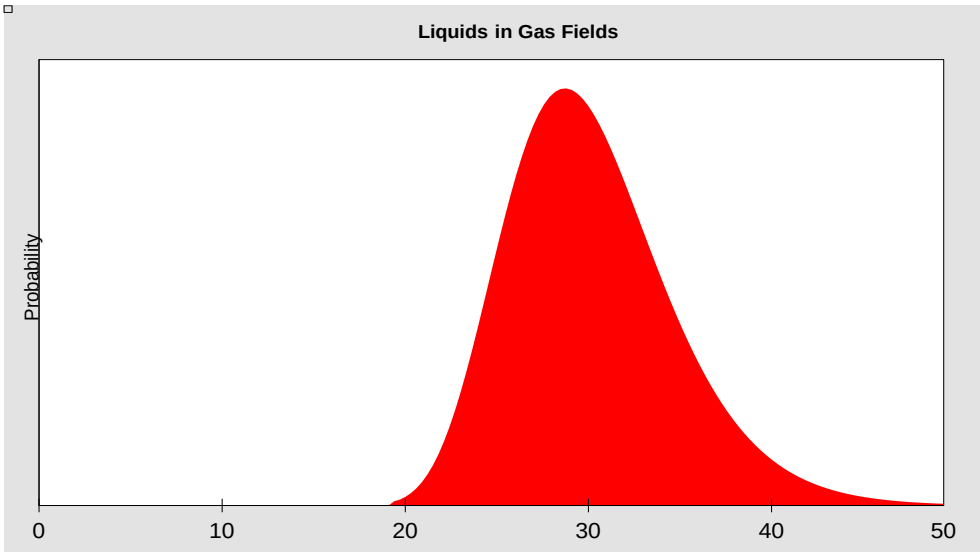
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	796.51	856.81
Median	89.75	89.82
Mode	---	---
Standard Deviation	3,686.63	3,546.09
Variance	13,591,205.07	12,574,777.21
Skewness	12.22	12.28
Kurtosis	197.31	201.96
Coefficient of Variability	4.63	4.14
Minimum	30.00	30.00
Maximum	88,377.38	90,000.00
Range Width	88,347.38	89,970.00
Mean Standard Error	16.49	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.00	30.00
95%	31.23	31.22
90%	32.91	32.89
85%	35.18	35.15
80%	38.18	38.17
75%	42.10	42.14
70%	47.38	47.31
65%	53.92	54.05
60%	62.85	62.86
55%	74.09	74.45
50%	89.74	89.82
45%	110.12	110.52
40%	138.15	138.88
35%	180.08	178.73
30%	236.57	236.57
25%	325.82	324.43
20%	466.11	466.76
15%	711.06	721.30
10%	1,244.83	1,260.53
5%	2,862.70	2,909.73
0%	88,377.38	90,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	20.51	30.51
Standard Deviation	4.66	4.66
Selected range is from -Infinity to 40.00		10.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.52	30.49
Median	30.06	29.99
Mode	---	---
Standard Deviation	4.61	4.61
Variance	21.24	21.23
Skewness	0.6043	0.6157
Kurtosis	3.45	3.47
Coefficient of Variability	0.1510	0.1511
Minimum	18.25	10.00
Maximum	49.77	50.00
Range Width	31.52	40.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	18.25	10.00
95%	23.87	23.83
90%	25.01	25.00
85%	25.86	25.85
80%	26.57	26.56
75%	27.18	27.19
70%	27.78	27.78
65%	28.37	28.34
60%	28.93	28.89
55%	29.50	29.44
50%	30.06	29.99
45%	30.64	30.57
40%	31.22	31.16
35%	31.84	31.80
30%	32.51	32.49
25%	33.29	33.25
20%	34.15	34.14
15%	35.26	35.21
10%	36.67	36.63
5%	38.86	38.87
0%	49.77	50.00

End of Assumptions

Simulation started on 8/24/2009 at 20:36:55
Simulation stopped on 8/25/2009 at 11:00:43