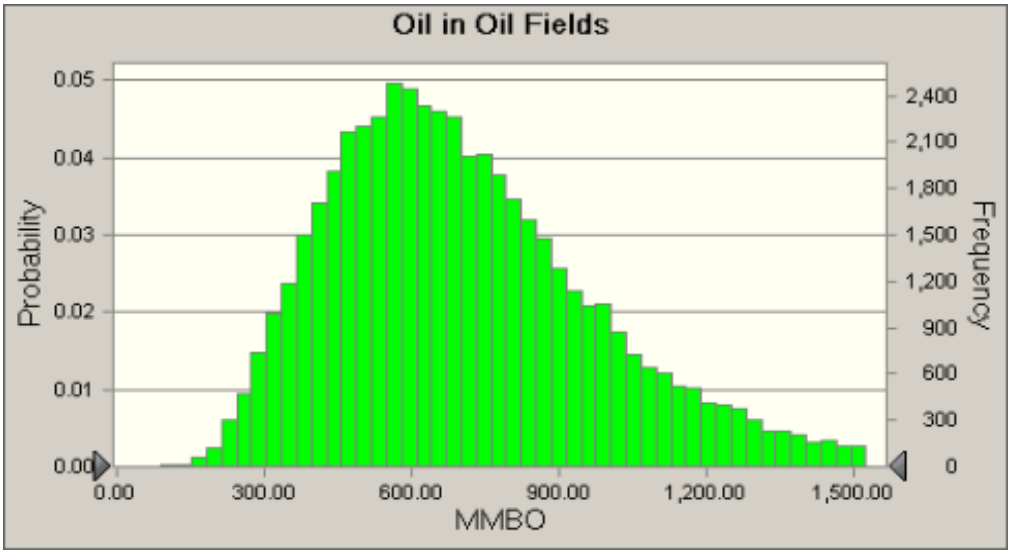
39100104
Malita Graben-Sahul Platform
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 30.60 to 2,634.94
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.29



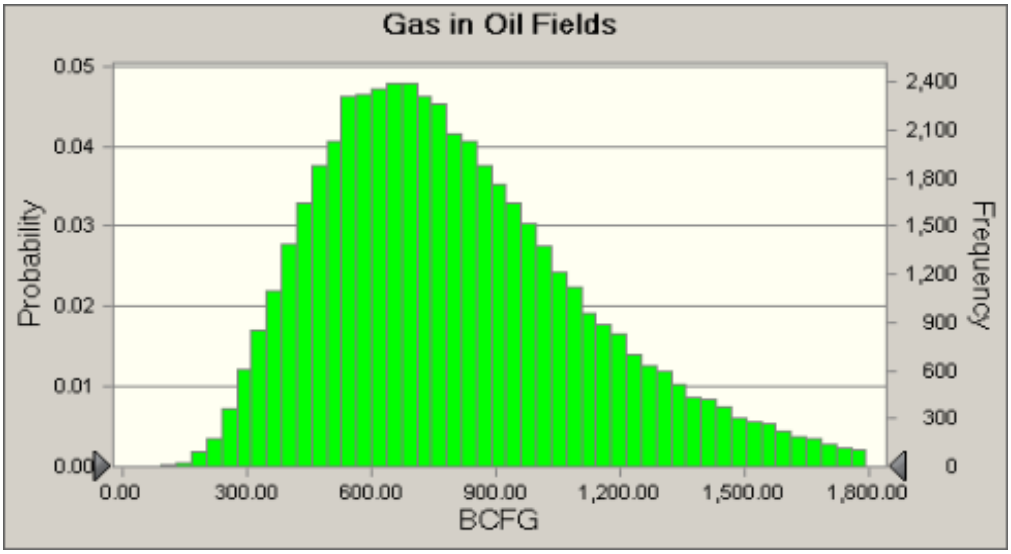
Statistics:	Forecast values
Trials	50,000
Mean	714.13
Median	667.72
Mode	---
Standard Deviation	289.36
Variance	83,732.03
Skewness	1.02
Kurtosis	4.62
Coefficient of Variability	0.4052
Minimum	30.60
Maximum	2,634.94
Range Width	2,604.34
Mean Standard Error	1.29

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	30.60
95%	329.38
90%	388.46
85%	433.53
80%	471.26
75%	506.33
70%	540.05
65%	571.57
60%	603.02
55%	635.44
50%	667.71
45%	701.46
40%	739.19
35%	777.85
30%	820.99
25%	869.23
20%	928.32
15%	1,000.23
10%	1,100.48
5%	1,259.50
0%	2,634.94

Forecast: Gas in Oil Fields

Summary:
Entire range is from 21.64 to 3,225.01
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.56



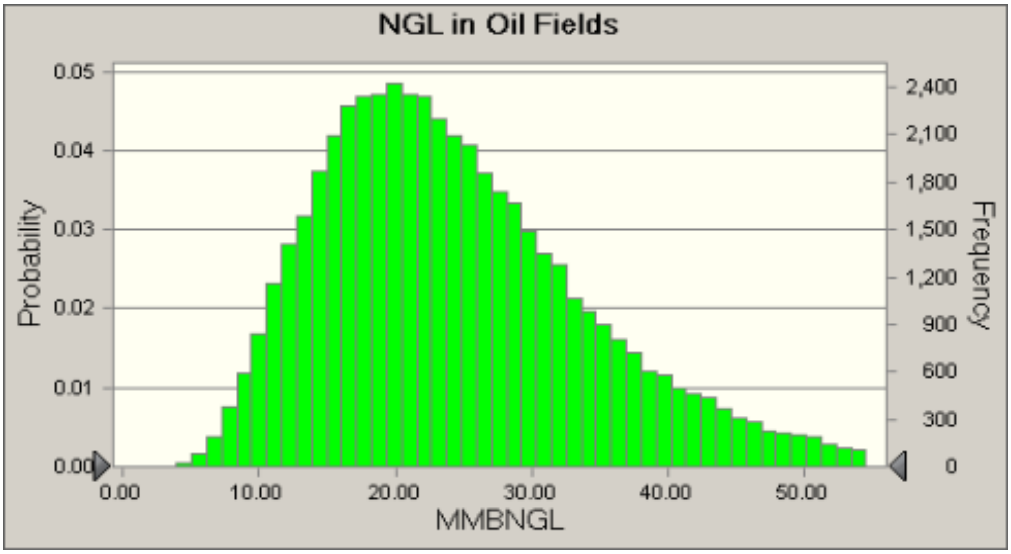
Statistics:	Forecast values
Trials	50,000
Mean	815.48
Median	756.65
Mode	---
Standard Deviation	348.79
Variance	121,653.74
Skewness	1.07
Kurtosis	4.81
Coefficient of Variability	0.4277
Minimum	21.64
Maximum	3,225.01
Range Width	3,203.37
Mean Standard Error	1.56

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	21.64
95%	360.17
90%	427.89
85%	480.15
80%	524.98
75%	564.19
70%	602.90
65%	641.31
60%	678.50
55%	717.08
50%	756.65
45%	798.39
40%	842.18
35%	889.43
30%	941.08
25%	1,000.27
20%	1,070.52
15%	1,159.16
10%	1,280.34
5%	1,474.13
0%	3,225.01

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.64 to 98.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.05



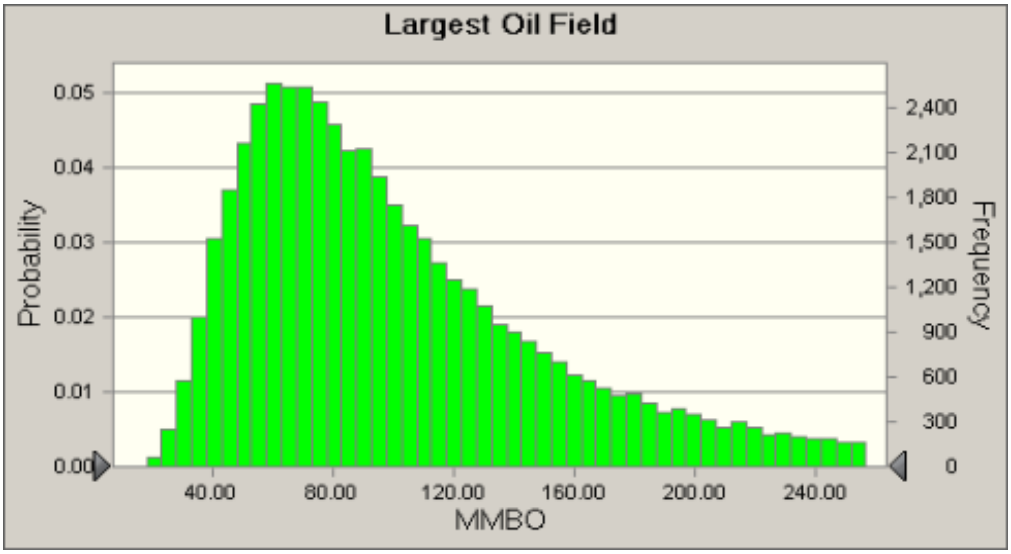
Statistics:	Forecast values
Trials	50,000
Mean	24.76
Median	22.96
Mode	---
Standard Deviation	10.62
Variance	112.76
Skewness	1.08
Kurtosis	4.83
Coefficient of Variability	0.4288
Minimum	0.64
Maximum	98.65
Range Width	98.01
Mean Standard Error	0.05

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.64
95%	10.90
90%	12.96
85%	14.55
80%	15.90
75%	17.12
70%	18.28
65%	19.45
60%	20.58
55%	21.75
50%	22.96
45%	24.23
40%	25.57
35%	27.01
30%	28.61
25%	30.39
20%	32.49
15%	35.19
10%	38.93
5%	44.85
0%	98.65

Forecast: Largest Oil Field

Summary:
Entire range is from 12.90 to 299.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.25



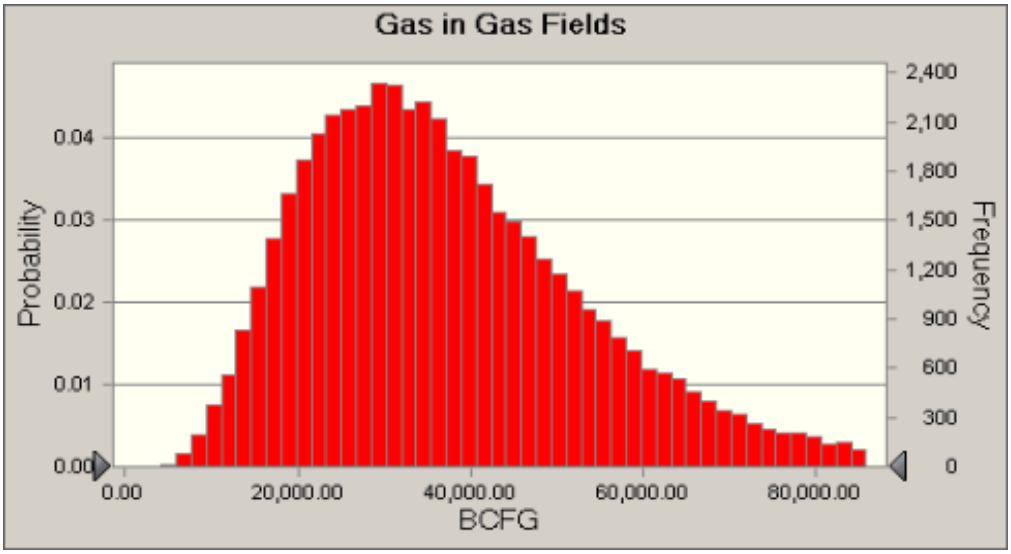
Statistics:	Forecast values
Trials	50,000
Mean	103.21
Median	89.10
Mode	---
Standard Deviation	54.95
Variance	3,019.17
Skewness	1.20
Kurtosis	4.15
Coefficient of Variability	0.5324
Minimum	12.90
Maximum	299.98
Range Width	287.07
Mean Standard Error	0.25

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	12.90
95%	39.91
90%	47.05
85%	52.87
80%	57.99
75%	62.87
70%	67.77
65%	72.68
60%	77.83
55%	83.27
50%	89.10
45%	95.27
40%	102.20
35%	109.87
30%	118.81
25%	129.31
20%	142.33
15%	158.80
10%	182.37
5%	219.41
0%	299.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 694.24 to 140,978.87
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 76.76



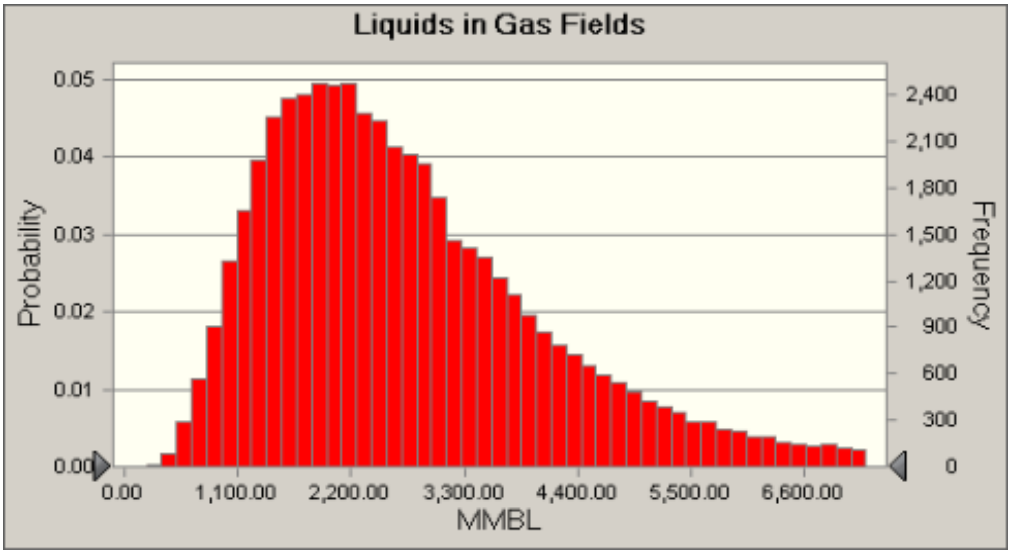
Statistics:	Forecast values
Trials	50,000
Mean	37,791.44
Median	34,896.12
Mode	---
Standard Deviation	17,163.99
Variance	294,602,697.04
Skewness	0.9993
Kurtosis	4.39
Coefficient of Variability	0.4542
Minimum	694.24
Maximum	140,978.87
Range Width	140,284.62
Mean Standard Error	76.76

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	694.24
95%	15,327.70
90%	18,580.68
85%	21,033.53
80%	23,204.54
75%	25,221.63
70%	27,231.24
65%	29,134.19
60%	31,014.14
55%	32,906.30
50%	34,895.88
45%	36,924.49
40%	39,175.92
35%	41,537.47
30%	44,261.52
25%	47,235.70
20%	50,736.54
15%	55,090.13
10%	60,856.42
5%	70,159.45
0%	140,978.87

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 63.73 to 20,786.63
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.99



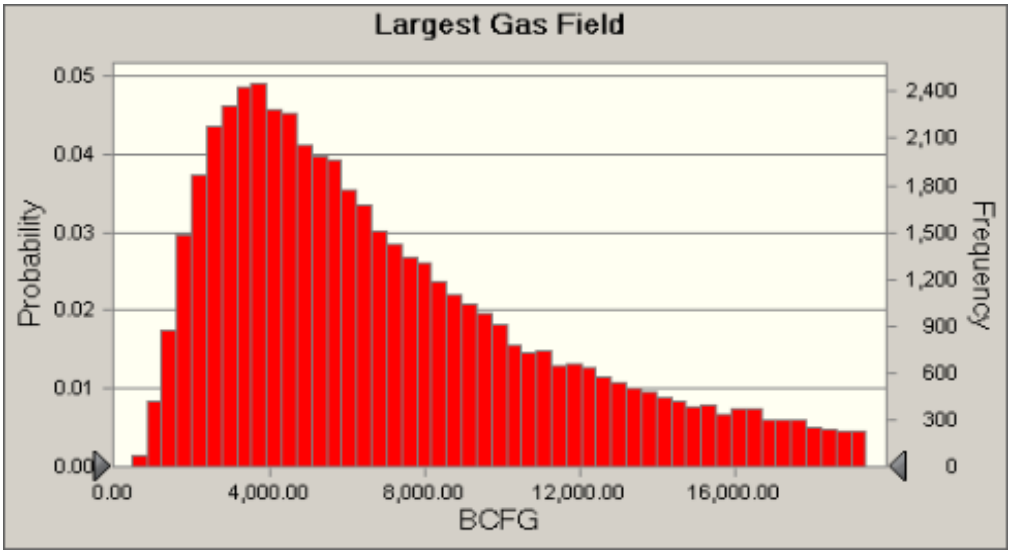
Statistics:	Forecast values
Trials	50,000
Mean	2,824.64
Median	2,492.32
Mode	---
Standard Deviation	1,563.62
Variance	2,444,910.67
Skewness	1.72
Kurtosis	8.82
Coefficient of Variability	0.5536
Minimum	63.73
Maximum	20,786.63
Range Width	20,722.89
Mean Standard Error	6.99

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	63.73
95%	1,014.43
90%	1,241.61
85%	1,422.49
80%	1,575.73
75%	1,730.85
70%	1,877.28
65%	2,027.67
60%	2,175.72
55%	2,330.19
50%	2,492.24
45%	2,662.04
40%	2,843.90
35%	3,034.21
30%	3,269.93
25%	3,533.12
20%	3,840.24
15%	4,247.66
10%	4,810.76
5%	5,778.10
0%	20,786.63

Forecast: Largest Gas Field

Summary:
Entire range is from 412.58 to 19,997.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 19.66



Statistics:	Forecast values
Trials	50,000
Mean	7,071.49
Median	5,909.34
Mode	---
Standard Deviation	4,397.06
Variance	19,334,168.56
Skewness	0.9383
Kurtosis	3.14
Coefficient of Variability	0.6218
Minimum	412.58
Maximum	19,997.03
Range Width	19,584.45
Mean Standard Error	19.66

Forecast: Largest Gas Field (continued)

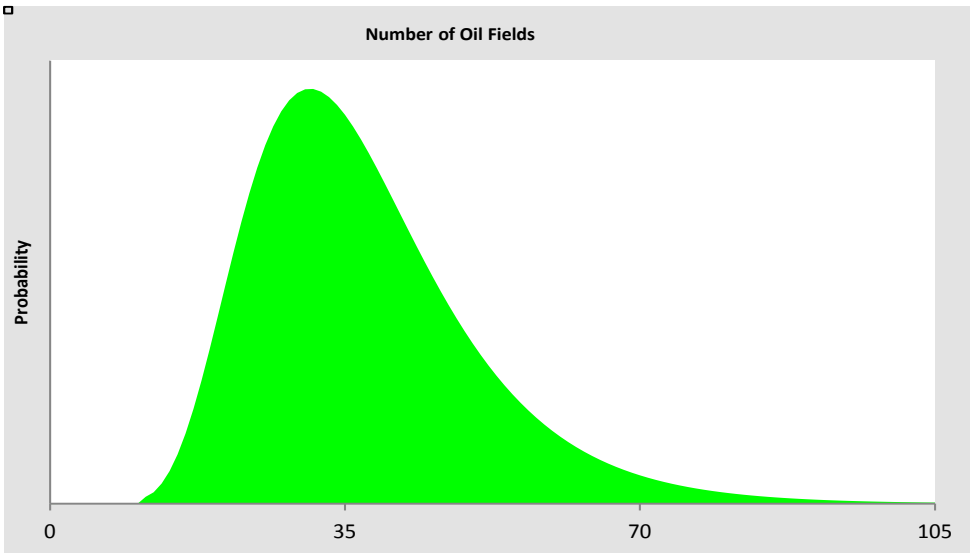
Percentiles:	BCFG
100%	412.58
95%	1,889.09
90%	2,400.43
85%	2,842.12
80%	3,252.44
75%	3,648.03
70%	4,043.13
65%	4,474.18
60%	4,930.16
55%	5,416.32
50%	5,909.32
45%	6,481.65
40%	7,112.58
35%	7,814.12
30%	8,606.43
25%	9,518.57
20%	10,684.26
15%	12,079.53
10%	13,852.82
5%	16,329.04
0%	19,997.03

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	36.30	37.3
Standard Deviation	13.58	13.58
Selected range is from -Infinity to 104.00		1.00 to 105.00



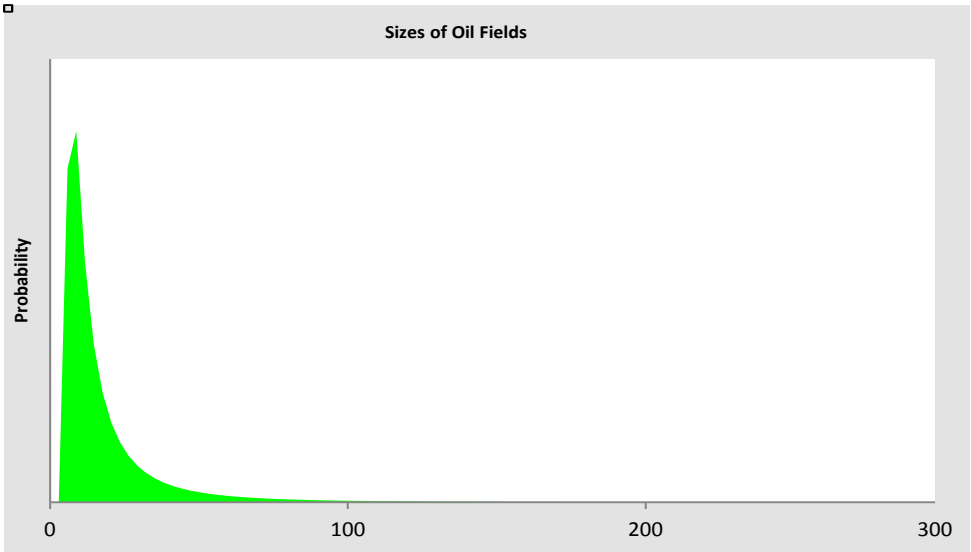
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	37.27	37.22
Median	35.03	34.98
Mode	---	---
Standard Deviation	13.33	13.34
Variance	177.67	178.07
Skewness	1.03	1.03
Kurtosis	4.52	4.52
Coefficient of Variability	0.3576	0.3585
Minimum	9.34	1.00
Maximum	104.79	105.00
Range Width	95.45	104.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.34	1.00
95%	19.79	19.75
90%	22.41	22.38
85%	24.44	24.36
80%	26.16	26.07
75%	27.76	27.63
70%	29.21	29.12
65%	30.62	30.57
60%	32.07	32.01
55%	33.52	33.48
50%	35.03	34.98
45%	36.60	36.56
40%	38.29	38.24
35%	40.09	40.06
30%	42.13	42.07
25%	44.38	44.36
20%	47.07	47.06
15%	50.47	50.40
10%	55.08	54.96
5%	62.48	62.45
0%	104.79	105.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	14.57	19.57
Standard Deviation	26.59	26.59
Selected range is from -Infinity to 295.00		5.00 to 300.00



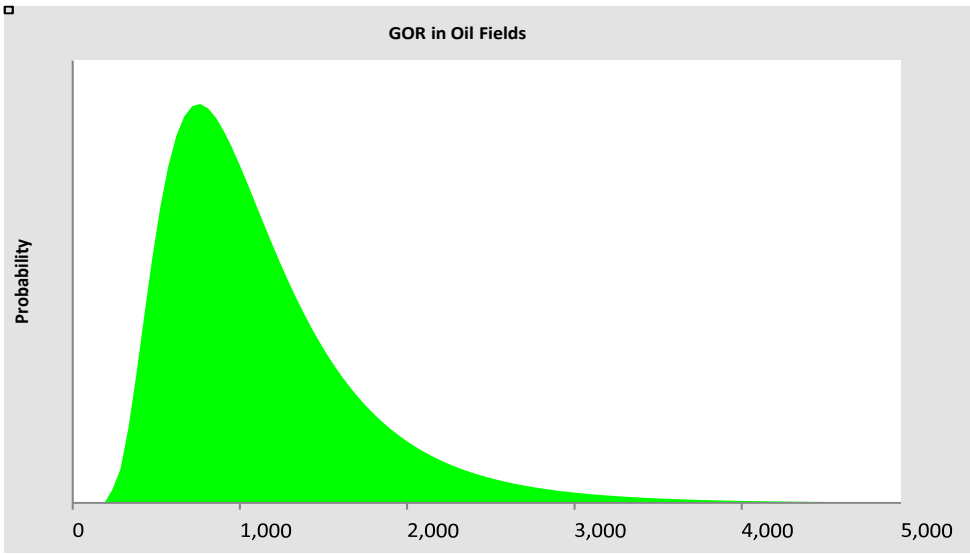
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	19.11	19.14
Median	12.00	11.99
Mode	---	---
Standard Deviation	21.87	22.10
Variance	478.36	488.36
Skewness	4.70	4.66
Kurtosis	35.95	35.09
Coefficient of Variability	1.14	1.15
Minimum	5.05	5.00
Maximum	298.75	300.00
Range Width	293.70	295.00
Mean Standard Error	0.10	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.05	5.00
95%	5.97	5.95
90%	6.50	6.48
85%	7.01	6.99
80%	7.53	7.52
75%	8.09	8.09
70%	8.70	8.71
65%	9.36	9.39
60%	10.13	10.14
55%	11.00	11.00
50%	12.00	11.99
45%	13.19	13.14
40%	14.55	14.49
35%	16.21	16.14
30%	18.21	18.18
25%	20.89	20.79
20%	24.42	24.33
15%	29.56	29.44
10%	37.96	37.83
5%	55.58	55.72
0%	298.75	300.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,046.05	1,146.05
Standard Deviation	619.63	619.63
Selected range is from -Infinity to 4,900.00		100.00 to 5,000.00



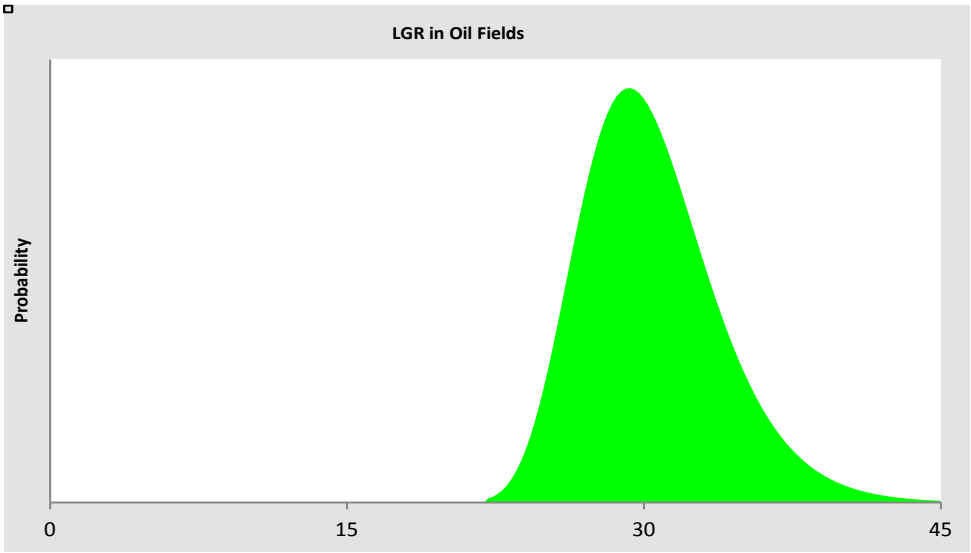
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,142.71	1,141.31
Median	998.43	999.38
Mode	---	---
Standard Deviation	603.00	600.92
Variance	363,609.95	361,108.12
Skewness	1.68	1.65
Kurtosis	7.23	7.06
Coefficient of Variability	0.5277	0.5265
Minimum	196.23	100.00
Maximum	4,983.83	5,000.00
Range Width	4,787.60	4,900.00
Mean Standard Error	2.70	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	196.23	100.00
95%	468.54	465.06
90%	547.77	545.53
85%	611.87	609.61
80%	669.08	667.05
75%	724.70	721.46
70%	776.56	774.74
65%	829.68	828.19
60%	882.61	882.81
55%	938.83	939.54
50%	998.42	999.38
45%	1,063.88	1,063.47
40%	1,131.51	1,133.27
35%	1,210.44	1,210.70
30%	1,296.21	1,298.56
25%	1,400.83	1,401.14
20%	1,525.36	1,525.65
15%	1,683.85	1,685.72
10%	1,911.76	1,912.40
5%	2,311.77	2,307.10
0%	4,983.83	5,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	15
Mean	15.38	30.38
Standard Deviation	3.49	3.49
Selected range is from -Infinity to 30.00		15.00 to 45.00



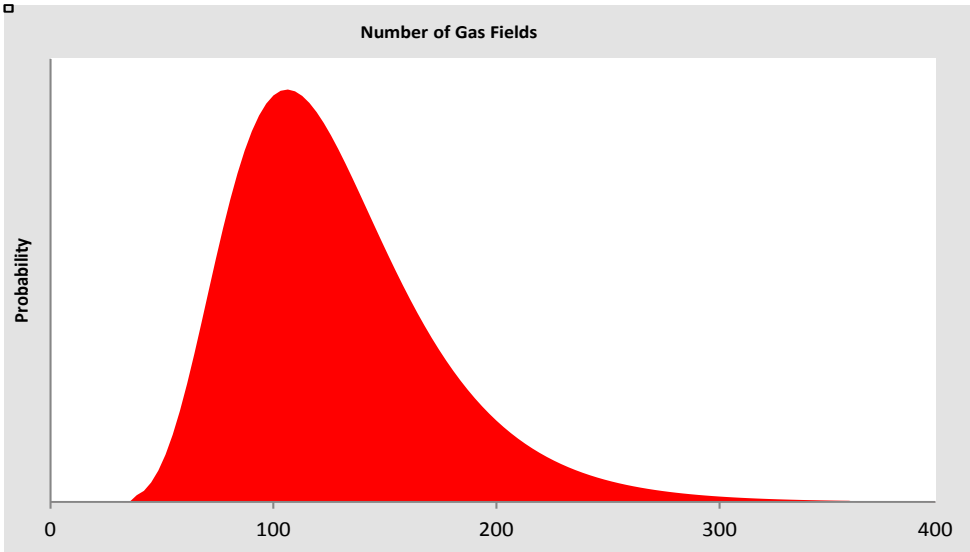
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.38	30.37
Median	30.02	30.00
Mode	---	---
Standard Deviation	3.46	3.46
Variance	11.97	11.94
Skewness	0.6194	0.6157
Kurtosis	3.51	3.47
Coefficient of Variability	0.1139	0.1138
Minimum	20.70	15.00
Maximum	45.00	45.00
Range Width	24.29	30.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	20.70	15.00
95%	25.36	25.37
90%	26.27	26.25
85%	26.91	26.89
80%	27.44	27.42
75%	27.91	27.89
70%	28.36	28.33
65%	28.78	28.76
60%	29.20	29.17
55%	29.61	29.58
50%	30.02	30.00
45%	30.45	30.42
40%	30.90	30.87
35%	31.37	31.35
30%	31.89	31.86
25%	32.45	32.44
20%	33.10	33.11
15%	33.90	33.91
10%	34.97	34.97
5%	36.69	36.65
0%	45.00	45.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	126.85	127.85
Standard Deviation	46.81	46.81
Selected range is from -Infinity to 359.00		1.00 to 360.00



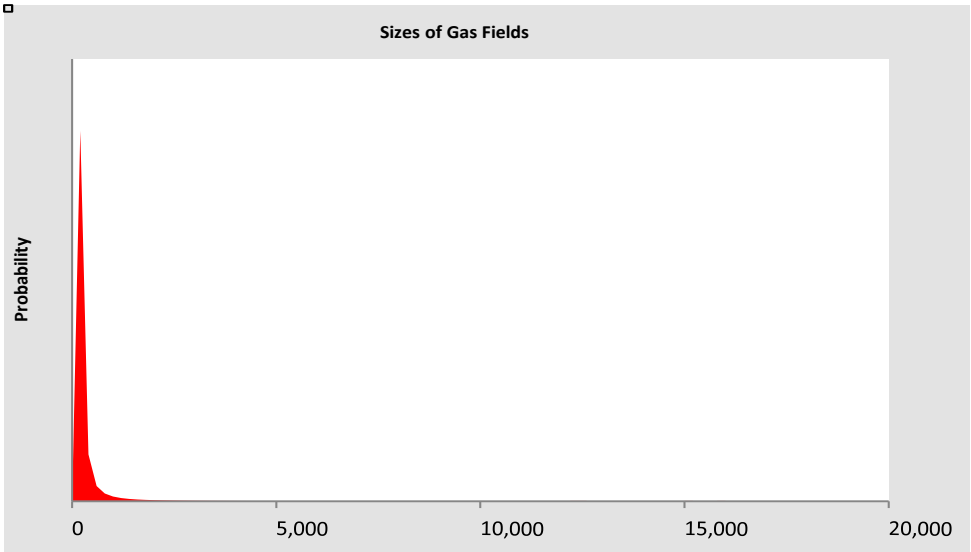
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	127.68	127.57
Median	120.02	119.95
Mode	---	---
Standard Deviation	46.02	46.03
Variance	2,117.66	2,118.46
Skewness	1.01	1.02
Kurtosis	4.40	4.48
Coefficient of Variability	0.3604	0.3608
Minimum	26.78	1.00
Maximum	359.42	360.00
Range Width	332.63	359.00
Mean Standard Error	0.21	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	26.78	1.00
95%	67.22	67.10
90%	76.23	76.26
85%	83.35	83.15
80%	89.20	89.07
75%	94.47	94.49
70%	99.66	99.63
65%	104.59	104.66
60%	109.57	109.66
55%	114.71	114.73
50%	120.02	119.95
45%	125.60	125.40
40%	131.36	131.20
35%	137.68	137.48
30%	144.62	144.42
25%	152.46	152.31
20%	161.58	161.59
15%	173.22	173.12
10%	189.15	188.78
5%	214.42	214.50
0%	359.42	360.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	307.21	337.21
Standard Deviation	2,226.00	2,226.00
Selected range is from -Infinity to 19,970.00		30.00 to 20,000.00



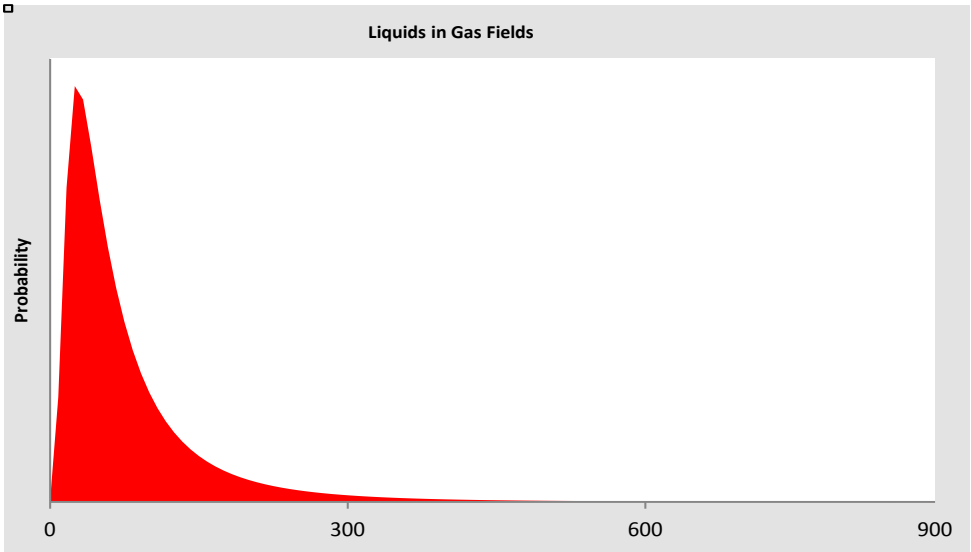
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	293.55	304.24
Median	71.77	71.90
Mode	---	---
Standard Deviation	932.16	925.10
Variance	868,919.43	855,818.46
Skewness	9.66	9.73
Kurtosis	128.37	131.90
Coefficient of Variability	3.18	3.04
Minimum	30.01	30.00
Maximum	19,826.40	20,000.00
Range Width	19,796.39	19,970.00
Mean Standard Error	4.17	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.01	30.00
95%	31.60	31.58
90%	33.32	33.25
85%	35.31	35.31
80%	37.72	37.82
75%	40.79	40.92
70%	44.65	44.73
65%	49.38	49.44
60%	55.33	55.28
55%	62.64	62.61
50%	71.77	71.90
45%	83.84	83.82
40%	99.41	99.41
35%	120.24	120.27
30%	148.73	149.08
25%	190.00	190.54
20%	252.42	253.84
15%	354.29	359.64
10%	555.05	565.96
5%	1,100.89	1,127.48
0%	19,826.40	20,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	74.76	75.76
Standard Deviation	86.15	86.15
Selected range is from -Infinity to 839.00		1.00 to 840.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	74.36	74.72
Median	49.64	49.94
Mode	---	---
Standard Deviation	78.41	78.86
Variance	6,148.40	6,218.71
Skewness	3.20	3.16
Kurtosis	18.46	18.03
Coefficient of Variability	1.05	1.06
Minimum	2.11	1.00
Maximum	837.25	840.00
Range Width	835.15	839.00
Mean Standard Error	0.35	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.11	1.00
95%	11.86	11.80
90%	16.20	16.08
85%	19.99	19.89
80%	23.71	23.59
75%	27.40	27.34
70%	31.30	31.23
65%	35.42	35.36
60%	39.75	39.78
55%	44.33	44.61
50%	49.64	49.94
45%	55.72	55.93
40%	62.36	62.76
35%	70.37	70.71
30%	79.67	80.20
25%	91.58	91.89
20%	106.25	106.94
15%	126.95	127.62
10%	158.65	159.40
5%	219.88	221.39
0%	837.25	840.00

End of Assumptions

Simulation started on 6/22/2011 at 1:08 PM
Simulation stopped on 6/22/2011 at 5:36 PM