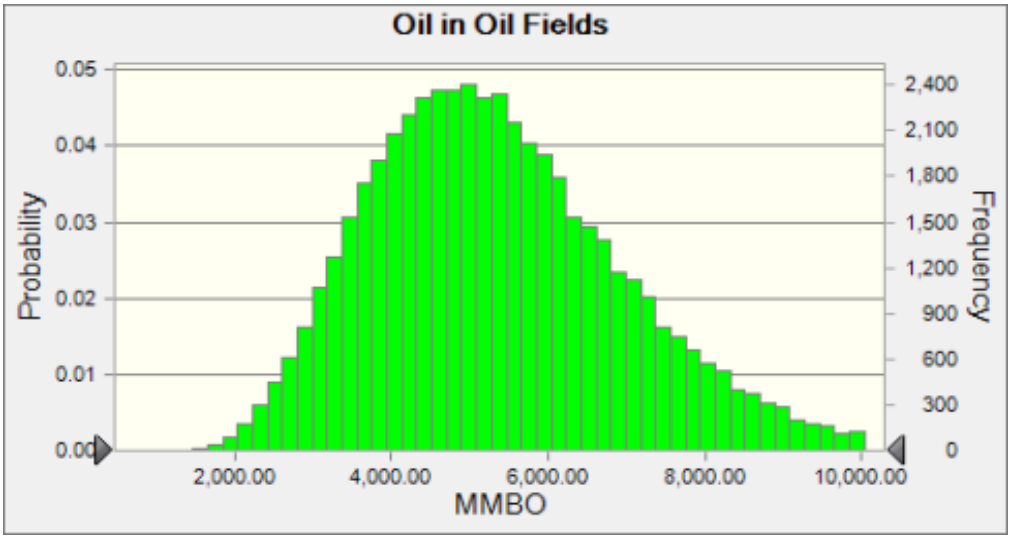
53010103
Tampico Mesozoic-Cenozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 3.10 to 17,227.70
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.45



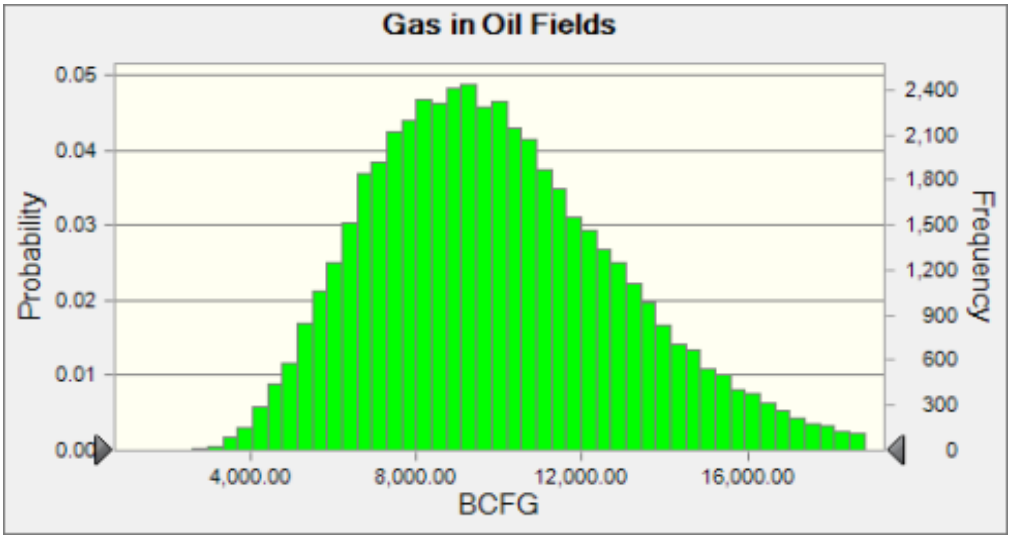
Statistics:	Forecast values
Trials	50,000
Mean	5,365.47
Median	5,182.22
Mode	---
Standard Deviation	1,666.93
Variance	2,778,671.18
Skewness	0.6698
Kurtosis	3.63
Coefficient of Variability	0.3107
Minimum	3.10
Maximum	17,227.70
Range Width	17,224.60
Mean Standard Error	7.45

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	3.10
95%	2,982.17
90%	3,384.00
85%	3,679.96
80%	3,932.06
75%	4,159.16
70%	4,375.32
65%	4,578.63
60%	4,778.54
55%	4,980.95
50%	5,182.17
45%	5,385.44
40%	5,598.72
35%	5,832.86
30%	6,077.62
25%	6,366.82
20%	6,690.86
15%	7,079.97
10%	7,595.17
5%	8,387.40
0%	17,227.70

Forecast: Gas in Oil Fields

Summary:
Entire range is from 5.18 to 32,712.50
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.11



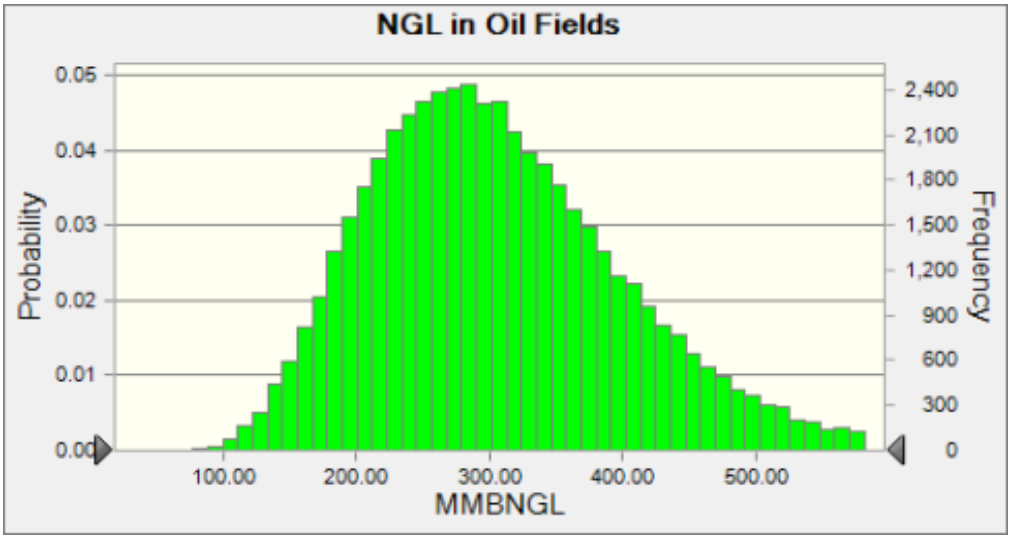
Statistics:	Forecast values
Trials	50,000
Mean	9,983.58
Median	9,613.67
Mode	---
Standard Deviation	3,154.15
Variance	9,948,679.91
Skewness	0.6969
Kurtosis	3.70
Coefficient of Variability	0.3159
Minimum	5.18
Maximum	32,712.50
Range Width	32,707.32
Mean Standard Error	14.11

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	5.18
95%	5,498.79
90%	6,253.95
85%	6,800.58
80%	7,273.59
75%	7,695.16
70%	8,093.94
65%	8,484.51
60%	8,860.06
55%	9,238.92
50%	9,613.66
45%	10,013.18
40%	10,410.07
35%	10,848.49
30%	11,331.29
25%	11,874.20
20%	12,487.86
15%	13,230.25
10%	14,194.43
5%	15,720.73
0%	32,712.50

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.15 to 930.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.44



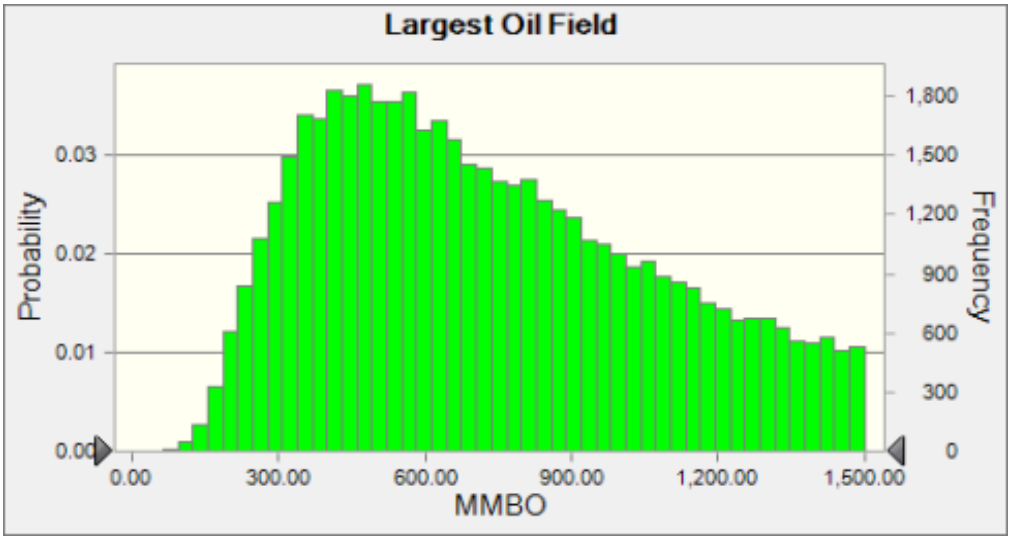
Statistics:	Forecast values
Trials	50,000
Mean	306.88
Median	295.22
Mode	---
Standard Deviation	98.13
Variance	9,630.28
Skewness	0.7138
Kurtosis	3.73
Coefficient of Variability	0.3198
Minimum	0.15
Maximum	930.91
Range Width	930.76
Mean Standard Error	0.44

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.15
95%	167.92
90%	191.15
85%	208.12
80%	222.73
75%	235.82
70%	248.08
65%	260.25
60%	271.82
55%	283.40
50%	295.22
45%	307.15
40%	319.82
35%	333.68
30%	348.55
25%	365.13
20%	383.91
15%	408.07
10%	437.88
5%	485.92
0%	930.91

Forecast: Largest Oil Field

Summary:
Entire range is from 1.94 to 1,499.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.51



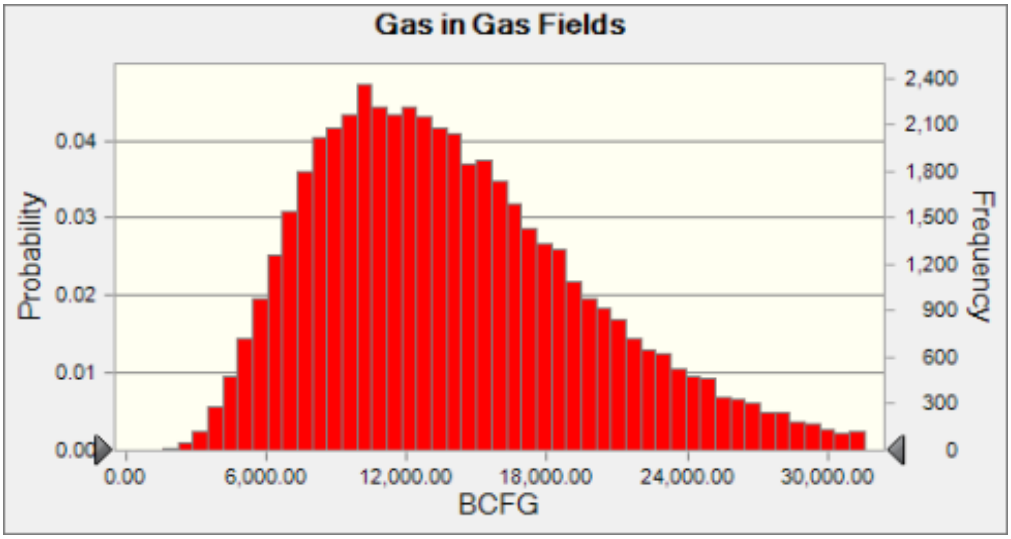
Statistics:	Forecast values
Trials	50,000
Mean	729.88
Median	676.11
Mode	---
Standard Deviation	337.88
Variance	114,163.41
Skewness	0.4349
Kurtosis	2.24
Coefficient of Variability	0.4629
Minimum	1.94
Maximum	1,499.96
Range Width	1,498.01
Mean Standard Error	1.51

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	1.94
95%	262.85
90%	322.16
85%	368.79
80%	412.92
75%	455.20
70%	496.38
65%	539.58
60%	581.97
55%	628.62
50%	676.11
45%	729.27
40%	783.96
35%	842.21
30%	903.87
25%	973.81
20%	1,053.62
15%	1,139.11
10%	1,241.46
5%	1,359.21
0%	1,499.96

Forecast: Gas in Gas Fields

Summary:
Entire range is from 303.01 to 53,490.11
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 27.78



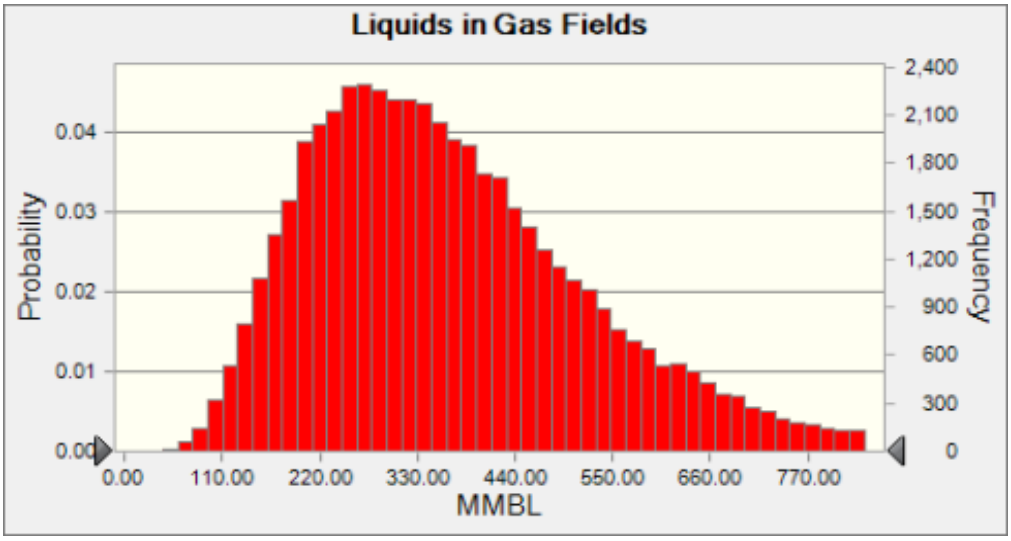
Statistics:	Forecast values
Trials	50,000
Mean	14,159.00
Median	13,167.83
Mode	---
Standard Deviation	6,211.28
Variance	38,580,011.55
Skewness	0.9511
Kurtosis	4.24
Coefficient of Variability	0.4387
Minimum	303.01
Maximum	53,490.11
Range Width	53,187.10
Mean Standard Error	27.78

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	303.01
95%	5,964.17
90%	7,140.82
85%	8,037.90
80%	8,830.05
75%	9,567.65
70%	10,260.30
65%	10,968.01
60%	11,706.53
55%	12,429.83
50%	13,167.66
45%	13,944.79
40%	14,763.73
35%	15,623.06
30%	16,563.46
25%	17,640.69
20%	18,877.24
15%	20,445.39
10%	22,564.97
5%	25,853.78
0%	53,490.11

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 9.45 to 1,405.90
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.74



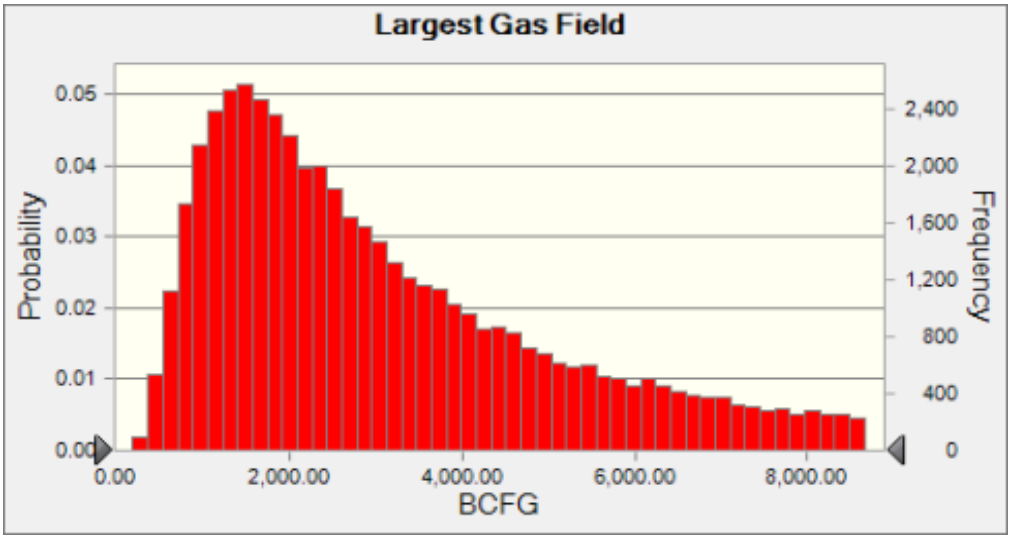
Statistics:	Forecast values
Trials	50,000
Mean	370.42
Median	342.97
Mode	---
Standard Deviation	165.40
Variance	27,356.71
Skewness	0.9946
Kurtosis	4.38
Coefficient of Variability	0.4465
Minimum	9.45
Maximum	1,405.90
Range Width	1,396.45
Mean Standard Error	0.74

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	9.45
95%	154.33
90%	185.59
85%	208.71
80%	229.22
75%	248.93
70%	266.88
65%	285.60
60%	304.48
55%	323.57
50%	342.97
45%	363.16
40%	384.69
35%	407.60
30%	432.54
25%	461.48
20%	495.81
15%	537.39
10%	594.43
5%	681.86
0%	1,405.90

Forecast: Largest Gas Field

Summary:
Entire range is from 181.99 to 8,999.93
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.92



Statistics:	Forecast values
Trials	50,000
Mean	3,072.93
Median	2,512.27
Mode	---
Standard Deviation	1,994.27
Variance	3,977,120.47
Skewness	0.9896
Kurtosis	3.23
Coefficient of Variability	0.6490
Minimum	181.99
Maximum	8,999.93
Range Width	8,817.94
Mean Standard Error	8.92

Forecast: Largest Gas Field (continued)

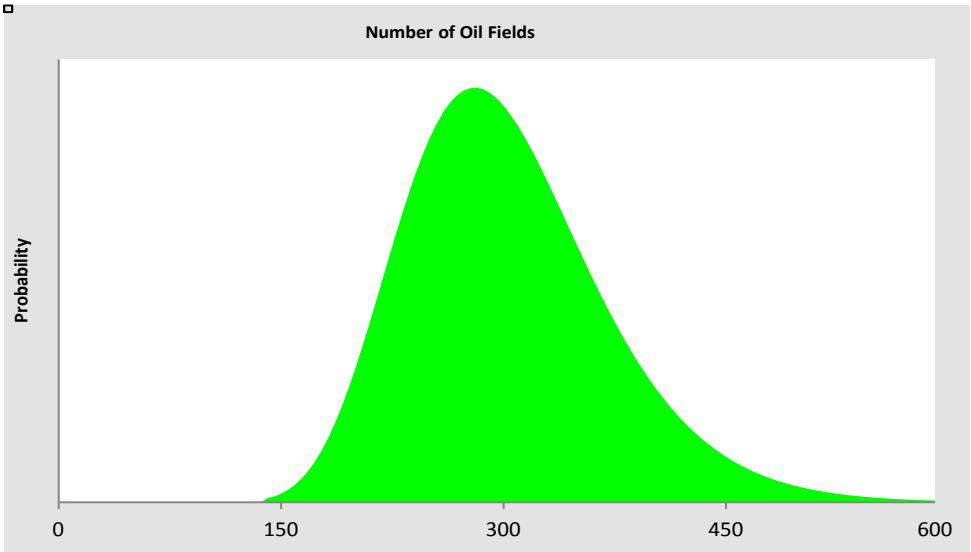
Percentiles:	BCFG
100%	181.99
95%	777.50
90%	998.49
85%	1,181.68
80%	1,357.34
75%	1,525.43
70%	1,697.89
65%	1,880.33
60%	2,073.82
55%	2,289.05
50%	2,512.27
45%	2,767.64
40%	3,047.98
35%	3,377.37
30%	3,749.35
25%	4,171.40
20%	4,682.15
15%	5,342.68
10%	6,171.85
5%	7,288.88
0%	8,999.93

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	306.66	307.66
Standard Deviation	69.84	69.84
Selected range is from -Infinity to 599.00		1.00 to 600.00



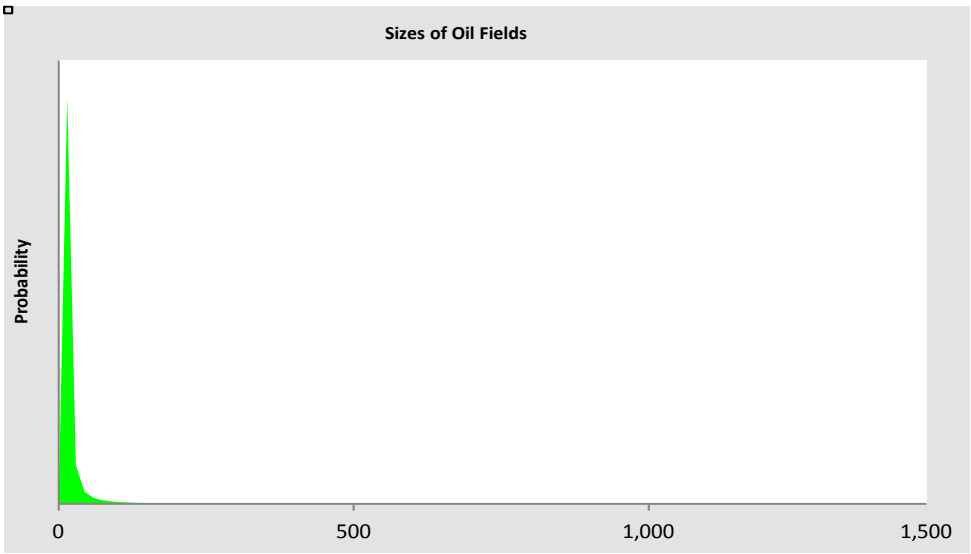
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	307.52	307.32
Median	299.82	299.92
Mode	---	---
Standard Deviation	68.93	69.07
Variance	4,750.94	4,770.16
Skewness	0.6085	0.6173
Kurtosis	3.44	3.47
Coefficient of Variability	0.2241	0.2247
Minimum	121.35	1.00
Maximum	599.84	600.00
Range Width	478.49	599.00
Mean Standard Error	0.31	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	121.35	1.00
95%	207.78	207.54
90%	225.40	225.11
85%	237.99	237.81
80%	248.73	248.41
75%	258.36	257.88
70%	266.94	266.69
65%	275.27	275.13
60%	283.70	283.38
55%	291.78	291.60
50%	299.82	299.92
45%	308.70	308.47
40%	317.91	317.42
35%	327.03	326.93
30%	337.52	337.27
25%	349.10	348.78
20%	362.46	362.06
15%	378.49	378.16
10%	399.71	399.40
5%	432.29	432.92
0%	599.84	600.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	19.84	20.84
Standard Deviation	195.80	195.8
Selected range is from -Infinity to 1,499.00		1.00 to 1,500.00



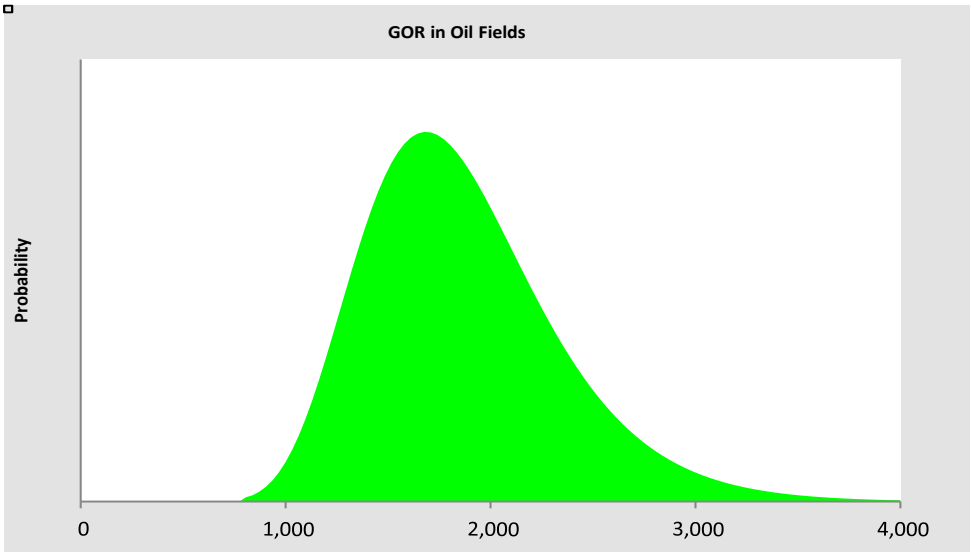
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.51	18.32
Median	2.98	2.99
Mode	---	---
Standard Deviation	64.85	64.86
Variance	4,205.86	4,206.39
Skewness	10.52	10.74
Kurtosis	151.61	158.13
Coefficient of Variability	3.70	3.54
Minimum	1.00	1.00
Maximum	1,442.40	1,500.00
Range Width	1,441.40	1,499.00
Mean Standard Error	0.29	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.06	1.06
90%	1.13	1.13
85%	1.22	1.22
80%	1.33	1.33
75%	1.47	1.47
70%	1.65	1.65
65%	1.87	1.87
60%	2.15	2.16
55%	2.51	2.52
50%	2.98	2.99
45%	3.61	3.61
40%	4.43	4.43
35%	5.51	5.55
30%	7.07	7.12
25%	9.46	9.44
20%	13.23	13.06
15%	19.63	19.28
10%	32.24	31.80
5%	67.80	67.50
0%	1,442.40	1,500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,762.50	1,862.50
Standard Deviation	482.30	482.3
Selected range is from -Infinity to 3,900.00		100.00 to 4,000.00



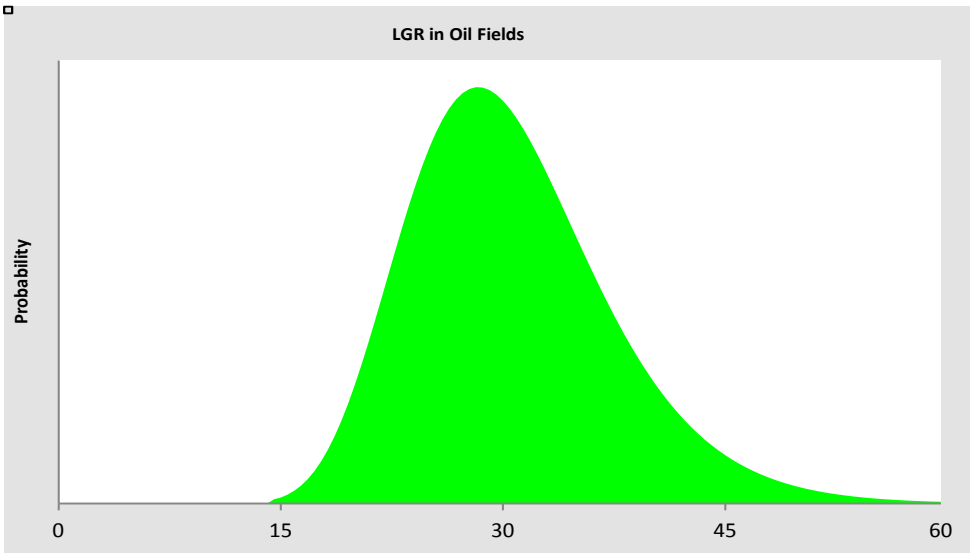
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,862.84	1,860.05
Median	1,800.97	1,799.43
Mode	---	---
Standard Deviation	479.02	476.18
Variance	229,455.63	226,748.29
Skewness	0.7437	0.7469
Kurtosis	3.73	3.74
Coefficient of Variability	0.2571	0.2560
Minimum	659.17	100.00
Maximum	3,981.15	4,000.00
Range Width	3,321.98	3,900.00
Mean Standard Error	2.14	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	659.17	100.00
95%	1,188.78	1,192.52
90%	1,306.84	1,304.54
85%	1,387.64	1,386.52
80%	1,457.06	1,455.64
75%	1,520.82	1,517.89
70%	1,579.35	1,576.21
65%	1,634.45	1,632.39
60%	1,690.84	1,687.67
55%	1,744.74	1,743.05
50%	1,800.94	1,799.43
45%	1,857.56	1,857.73
40%	1,920.05	1,919.01
35%	1,985.73	1,984.57
30%	2,058.43	2,056.20
25%	2,141.50	2,136.52
20%	2,234.23	2,229.79
15%	2,347.87	2,343.78
10%	2,503.60	2,495.60
5%	2,749.91	2,738.41
0%	3,981.15	4,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	29.78	30.78
Standard Deviation	6.94	6.94
Selected range is from -Infinity to 59.00		1.00 to 60.00



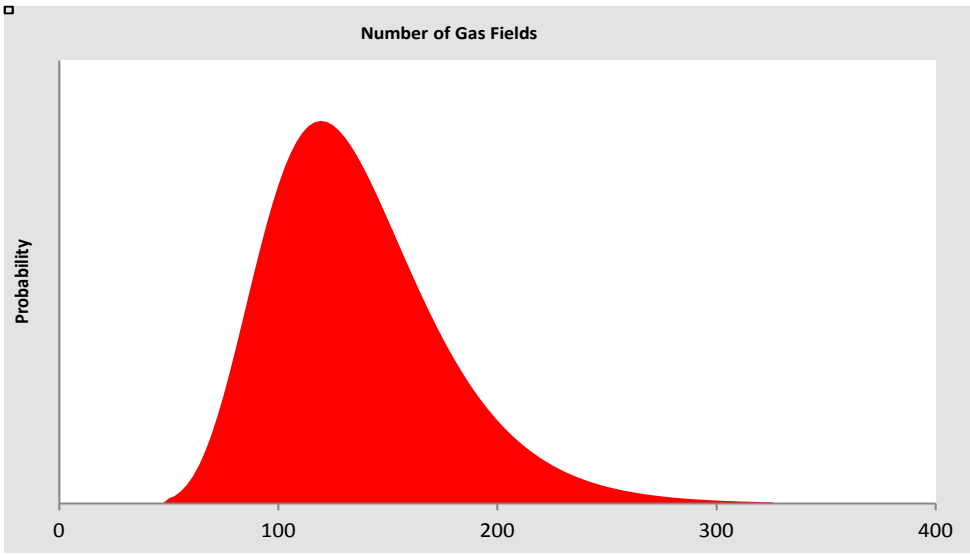
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	30.75	30.74
Median	29.99	29.99
Mode	---	---
Standard Deviation	6.88	6.86
Variance	47.40	47.03
Skewness	0.6402	0.6320
Kurtosis	3.56	3.50
Coefficient of Variability	0.2239	0.2231
Minimum	12.81	1.00
Maximum	59.97	60.00
Range Width	47.15	59.00
Mean Standard Error	0.03	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.81	1.00
95%	20.79	20.87
90%	22.56	22.60
85%	23.84	23.85
80%	24.91	24.90
75%	25.86	25.83
70%	26.74	26.70
65%	27.57	27.54
60%	28.38	28.35
55%	29.16	29.17
50%	29.99	29.99
45%	30.84	30.84
40%	31.75	31.73
35%	32.66	32.67
30%	33.67	33.70
25%	34.82	34.84
20%	36.13	36.17
15%	37.77	37.77
10%	39.88	39.89
5%	43.30	43.24
0%	59.97	60.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	134.86	135.86
Standard Deviation	41.10	41.1
Selected range is from -Infinity to 324.00		1.00 to 325.00



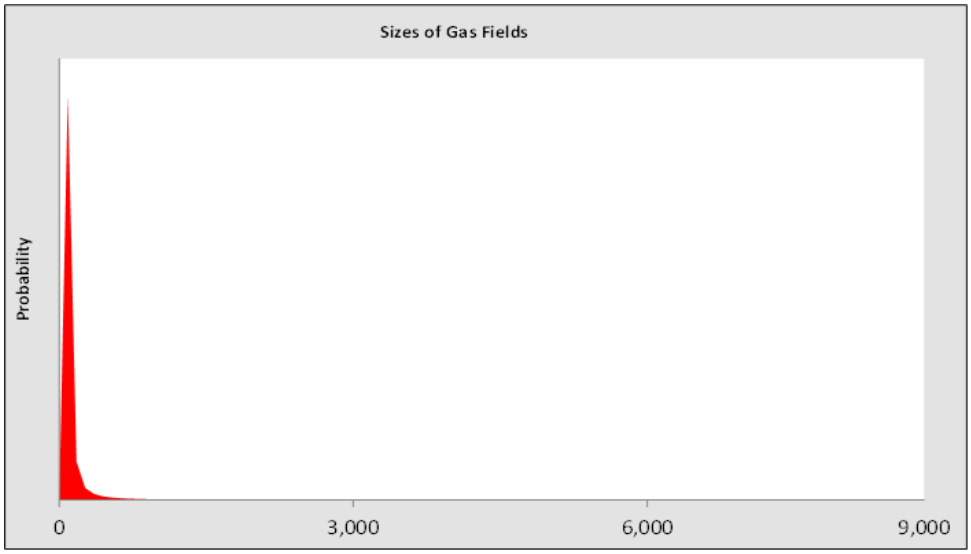
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	135.41	135.64
Median	129.68	129.95
Mode	---	---
Standard Deviation	40.37	40.53
Variance	1,630.12	1,642.60
Skewness	0.8369	0.8348
Kurtosis	3.98	3.96
Coefficient of Variability	0.2982	0.2988
Minimum	35.70	1.00
Maximum	324.88	325.00
Range Width	289.18	324.00
Mean Standard Error	0.18	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	35.70	1.00
95%	79.93	80.00
90%	88.90	89.03
85%	95.53	95.70
80%	101.31	101.36
75%	106.53	106.48
70%	111.34	111.31
65%	115.86	115.97
60%	120.39	120.58
55%	124.96	125.22
50%	129.68	129.95
45%	134.70	134.87
40%	139.80	140.05
35%	145.32	145.62
30%	151.29	151.73
25%	158.28	158.61
20%	166.33	166.64
15%	176.20	176.50
10%	189.36	189.71
5%	210.38	211.04
0%	324.88	325.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	119.04	125.04
Standard Deviation	1,174.77	1,174.77
Selected range is from -Infinity to 8,994.00		6.00 to 9,000.00



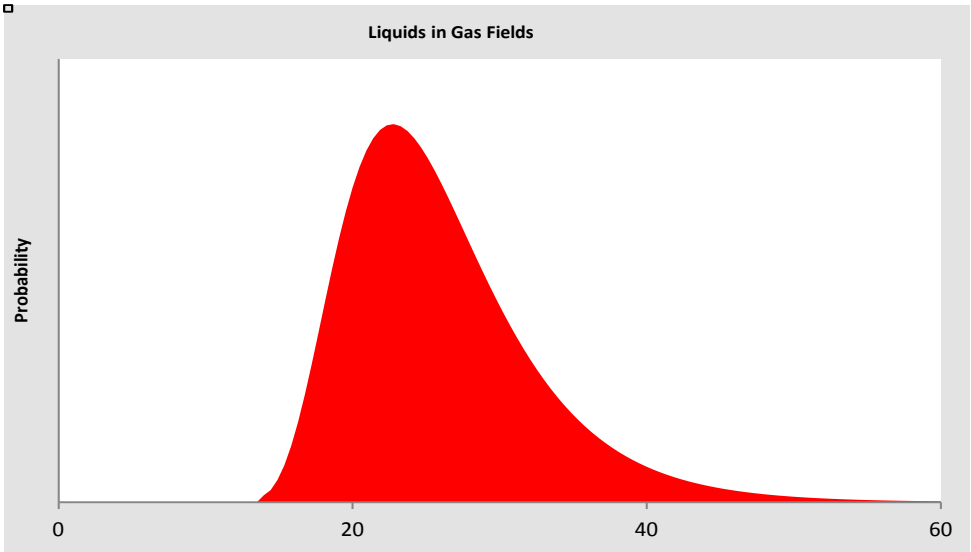
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	104.30	109.94
Median	17.74	17.97
Mode	---	---
Standard Deviation	391.68	389.14
Variance	153,412.43	151,430.14
Skewness	10.81	10.74
Kurtosis	160.16	158.13
Coefficient of Variability	3.76	3.54
Minimum	6.00	6.00
Maximum	8,993.98	9,000.00
Range Width	8,987.98	8,994.00
Mean Standard Error	1.75	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.00	6.00
95%	6.35	6.35
90%	6.76	6.77
85%	7.29	7.30
80%	7.96	7.97
75%	8.77	8.82
70%	9.83	9.89
65%	11.20	11.25
60%	12.83	12.96
55%	14.99	15.15
50%	17.74	17.97
45%	21.41	21.66
40%	26.37	26.58
35%	32.94	33.29
30%	42.03	42.74
25%	55.64	56.64
20%	76.79	78.36
15%	113.72	115.66
10%	190.72	190.80
5%	406.92	404.98
0%	8,993.98	9,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	10
Mean	16.18	26.18
Standard Deviation	6.55	6.55
Selected range is from -Infinity to 50.00		10.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.18	26.14
Median	25.04	24.99
Mode	---	---
Standard Deviation	6.43	6.43
Variance	41.40	41.35
Skewness	1.11	1.12
Kurtosis	4.77	4.81
Coefficient of Variability	0.2458	0.2460
Minimum	12.69	10.00
Maximum	59.80	60.00
Range Width	47.11	50.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.69	10.00
95%	17.89	17.90
90%	19.12	19.10
85%	20.04	20.01
80%	20.85	20.80
75%	21.58	21.53
70%	22.27	22.22
65%	22.94	22.90
60%	23.61	23.58
55%	24.33	24.28
50%	25.04	24.99
45%	25.79	25.74
40%	26.60	26.55
35%	27.48	27.42
30%	28.45	28.39
25%	29.52	29.49
20%	30.79	30.80
15%	32.47	32.43
10%	34.66	34.67
5%	38.48	38.37
0%	59.80	60.00

End of Assumptions

Simulation started on 9/13/2011 at 12:57 PM
Simulation stopped on 9/13/2011 at 1:36 PM