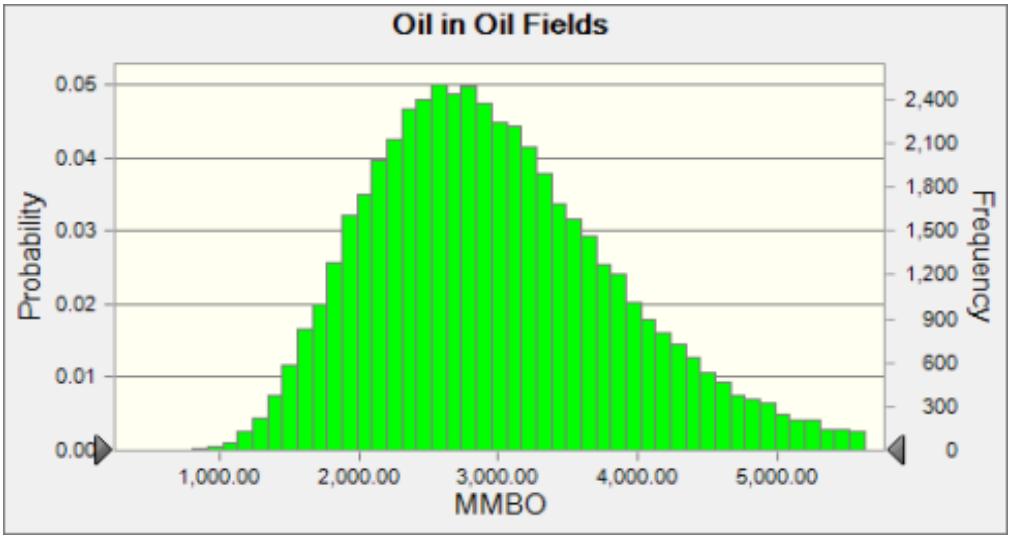
Forecast: Oil in Oil Fields

Summary:
Entire range is from 123.94 to 8,147.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.19



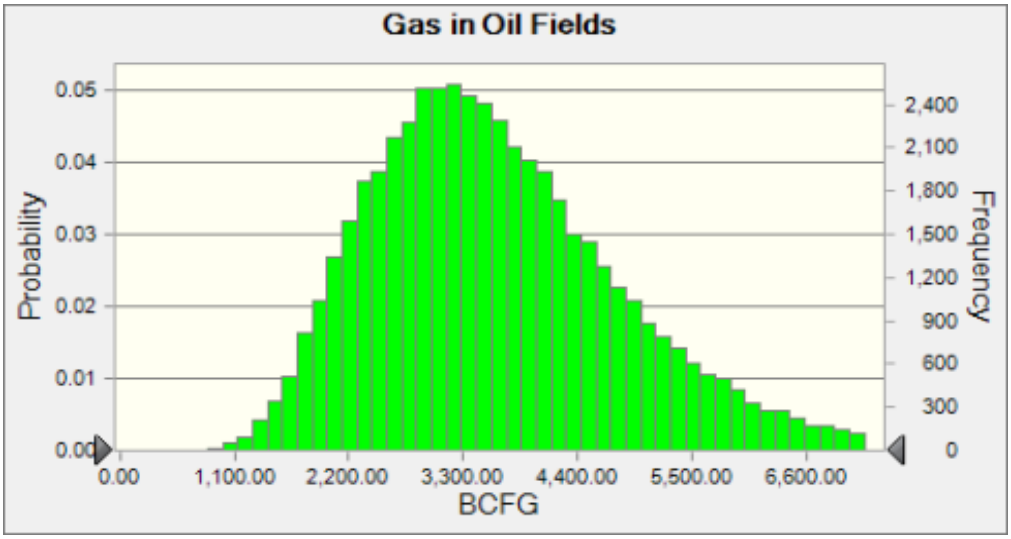
Statistics:	Forecast values
Trials	50,000
Mean	3,000.99
Median	2,880.18
Mode	---
Standard Deviation	936.83
Variance	877,647.89
Skewness	0.8064
Kurtosis	3.98
Coefficient of Variability	0.3122
Minimum	123.94
Maximum	8,147.49
Range Width	8,023.55
Mean Standard Error	4.19

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	123.94
95%	1,695.26
90%	1,913.63
85%	2,071.40
80%	2,206.23
75%	2,329.51
70%	2,442.63
65%	2,553.13
60%	2,661.28
55%	2,769.70
50%	2,880.17
45%	2,991.95
40%	3,112.96
35%	3,238.24
30%	3,377.13
25%	3,540.87
20%	3,719.06
15%	3,940.99
10%	4,249.15
5%	4,729.12
0%	8,147.49

Forecast: Gas in Oil Fields

Summary:
Entire range is from 86.44 to 11,716.17
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.62



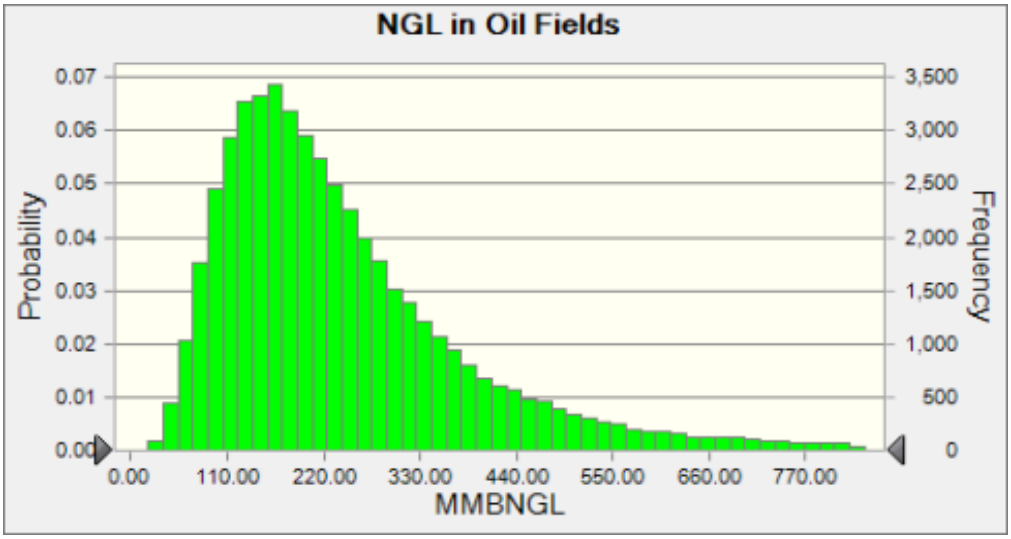
Statistics:	Forecast values
Trials	50,000
Mean	3,639.98
Median	3,464.34
Mode	---
Standard Deviation	1,256.24
Variance	1,578,127.67
Skewness	0.8483
Kurtosis	4.10
Coefficient of Variability	0.3451
Minimum	86.44
Maximum	11,716.17
Range Width	11,629.73
Mean Standard Error	5.62

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	86.44
95%	1,911.44
90%	2,185.18
85%	2,390.49
80%	2,576.21
75%	2,740.77
70%	2,893.90
65%	3,035.58
60%	3,176.64
55%	3,320.42
50%	3,464.26
45%	3,617.79
40%	3,778.49
35%	3,954.00
30%	4,138.23
25%	4,350.37
20%	4,600.43
15%	4,906.99
10%	5,313.01
5%	5,964.40
0%	11,716.17

Forecast: NGL in Oil Fields

Summary:
Entire range is from 2.03 to 8,030.82
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.93



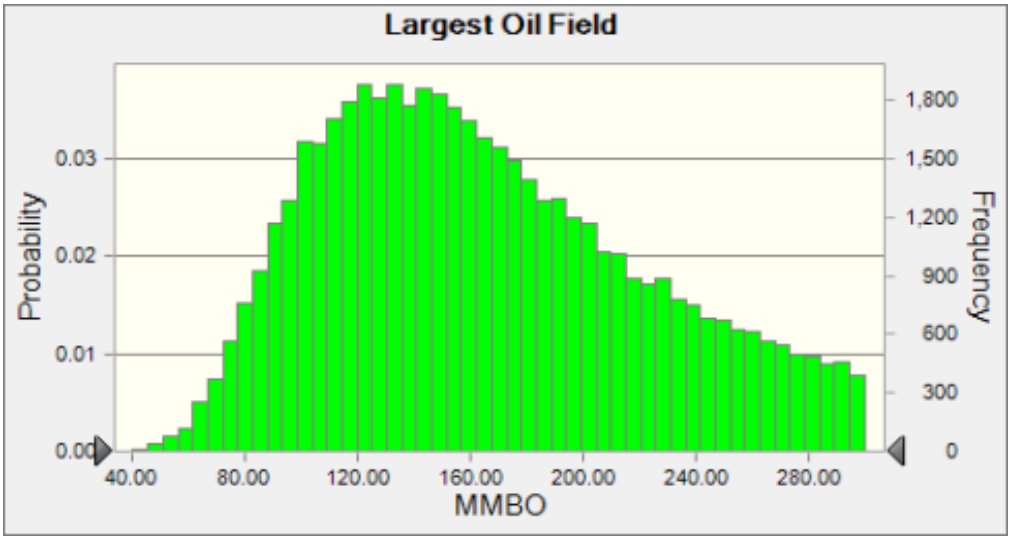
Statistics:	Forecast values
Trials	50,000
Mean	255.55
Median	207.41
Mode	---
Standard Deviation	207.61
Variance	43,100.93
Skewness	6.43
Kurtosis	108.97
Coefficient of Variability	0.8124
Minimum	2.03
Maximum	8,030.82
Range Width	8,028.78
Mean Standard Error	0.93

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	2.03
95%	79.95
90%	99.25
85%	114.70
80%	128.26
75%	141.10
70%	153.88
65%	165.88
60%	179.20
55%	192.56
50%	207.41
45%	223.01
40%	239.98
35%	259.00
30%	281.06
25%	307.34
20%	339.24
15%	381.92
10%	447.93
5%	572.34
0%	8,030.82

Forecast: Largest Oil Field

Summary:
Entire range is from 40.02 to 299.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.25



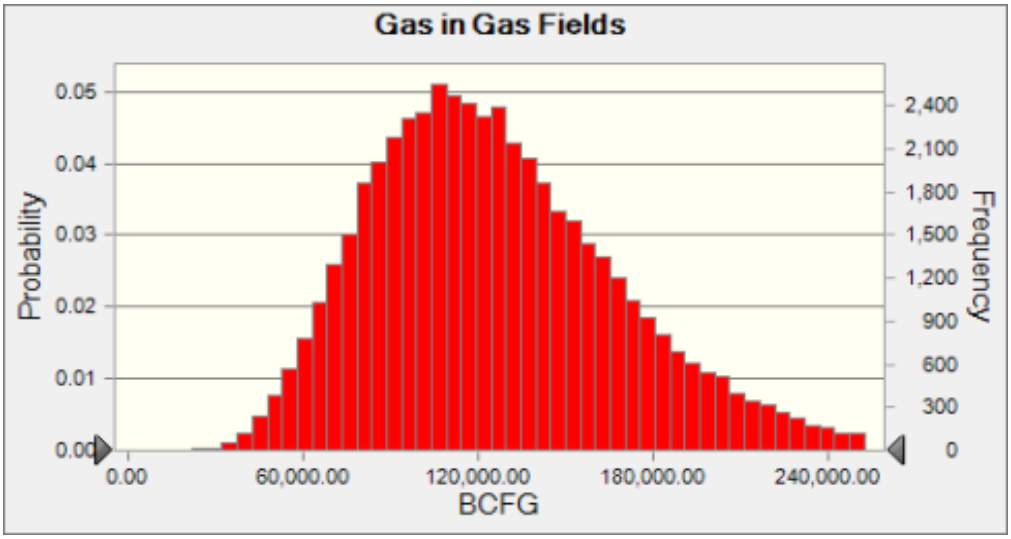
Statistics:	Forecast values
Trials	50,000
Mean	164.54
Median	156.51
Mode	---
Standard Deviation	56.62
Variance	3,205.31
Skewness	0.4354
Kurtosis	2.39
Coefficient of Variability	0.3441
Minimum	40.02
Maximum	299.99
Range Width	259.96
Mean Standard Error	0.25

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	40.02
95%	84.23
90%	96.06
85%	104.76
80%	112.90
75%	120.35
70%	127.45
65%	134.60
60%	141.94
55%	149.15
50%	156.51
45%	164.31
40%	172.83
35%	181.98
30%	192.20
25%	203.10
20%	216.14
15%	231.17
10%	249.25
5%	271.39
0%	299.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 265.42 to 387,674.05
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 200.57



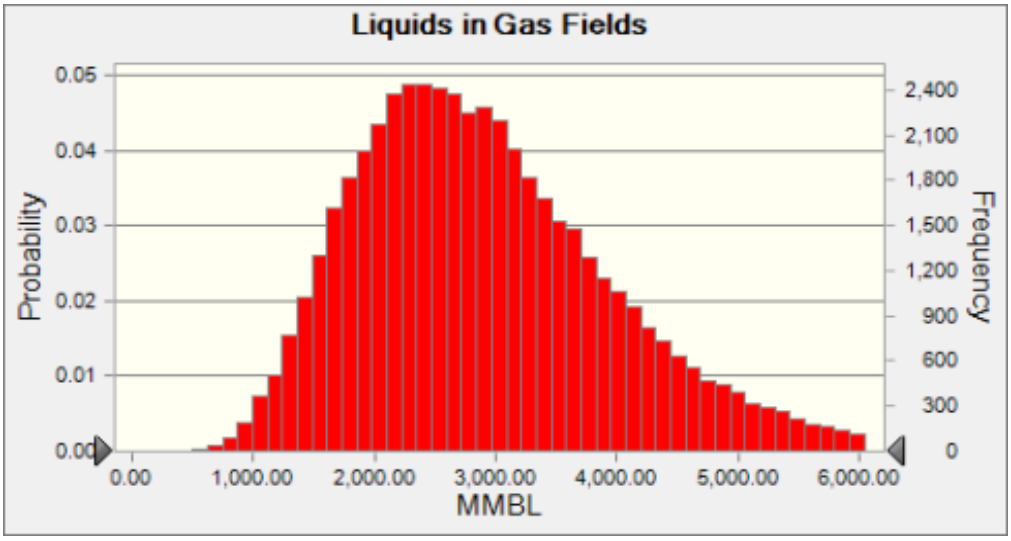
Statistics:	Forecast values
Trials	50,000
Mean	127,001.65
Median	120,995.44
Mode	---
Standard Deviation	44,847.93
Variance	2,011,336,892.95
Skewness	0.8043
Kurtosis	3.96
Coefficient of Variability	0.3531
Minimum	265.42
Maximum	387,674.05
Range Width	387,408.63
Mean Standard Error	200.57

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	265.42
95%	64,637.34
90%	74,926.79
85%	82,452.16
80%	88,841.83
75%	94,705.88
70%	100,282.74
65%	105,539.03
60%	110,508.06
55%	115,789.07
50%	120,994.65
45%	126,503.79
40%	132,275.65
35%	138,383.70
30%	145,188.41
25%	153,119.32
20%	161,753.24
15%	172,227.86
10%	186,462.25
5%	209,534.20
0%	387,674.05

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 9.77 to 11,981.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.96



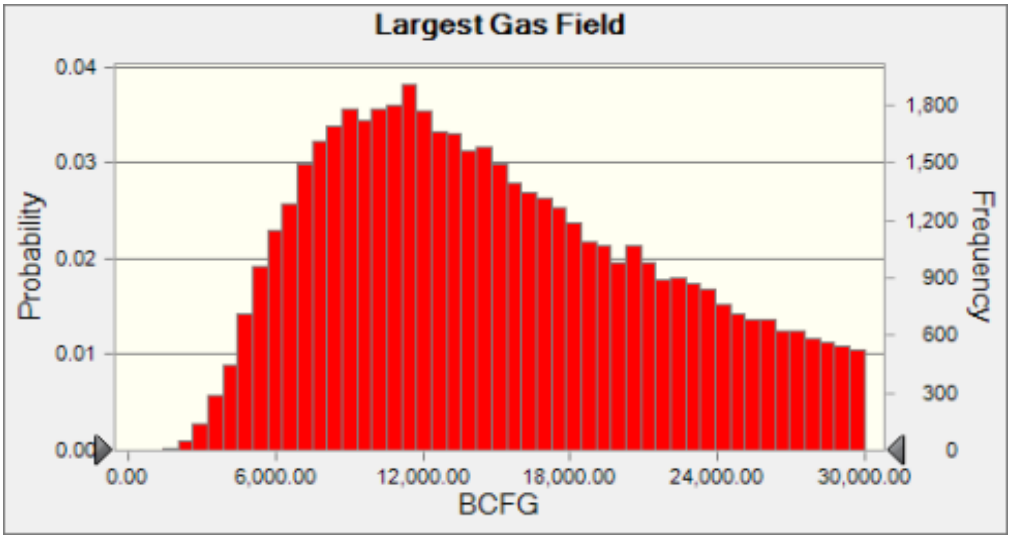
Statistics:	Forecast values
Trials	50,000
Mean	2,934.96
Median	2,776.99
Mode	---
Standard Deviation	1,109.24
Variance	1,230,422.50
Skewness	0.8965
Kurtosis	4.23
Coefficient of Variability	0.3779
Minimum	9.77
Maximum	11,981.28
Range Width	11,971.51
Mean Standard Error	4.96

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	9.77
95%	1,431.12
90%	1,666.08
85%	1,841.47
80%	1,995.83
75%	2,135.24
70%	2,261.00
65%	2,389.91
60%	2,513.79
55%	2,638.89
50%	2,776.98
45%	2,910.19
40%	3,048.04
35%	3,199.10
30%	3,368.48
25%	3,565.48
20%	3,782.92
15%	4,051.46
10%	4,411.85
5%	5,001.36
0%	11,981.28

Forecast: Largest Gas Field

Summary:
Entire range is from 158.83 to 29,998.92
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 29.80



Statistics:	Forecast values
Trials	50,000
Mean	14,959.64
Median	13,979.64
Mode	---
Standard Deviation	6,662.40
Variance	44,387,610.73
Skewness	0.4007
Kurtosis	2.23
Coefficient of Variability	0.4454
Minimum	158.83
Maximum	29,998.92
Range Width	29,840.09
Mean Standard Error	29.80

Forecast: Largest Gas Field (continued)

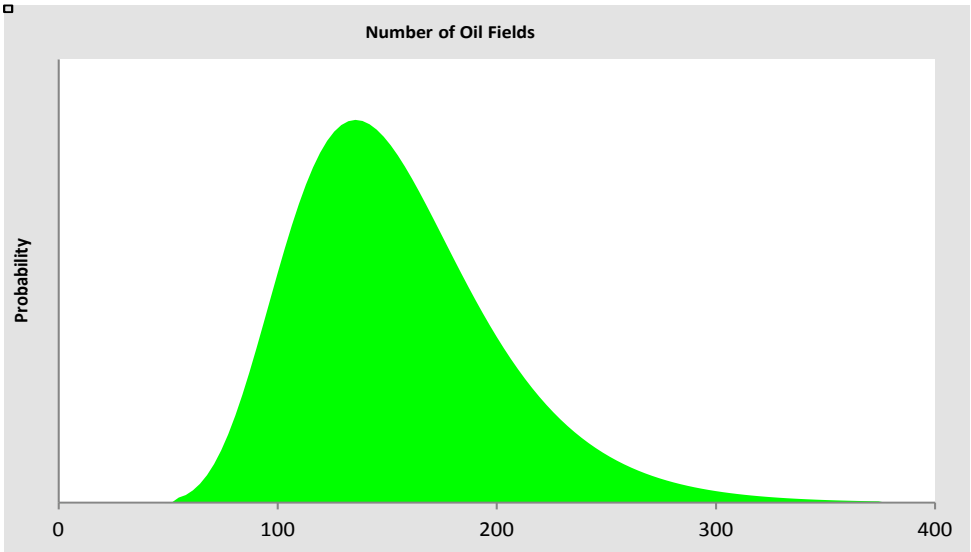
Percentiles:	BCFG
100%	158.83
95%	5,571.81
90%	6,829.22
85%	7,838.10
80%	8,739.43
75%	9,617.67
70%	10,472.11
65%	11,307.06
60%	12,126.66
55%	13,033.88
50%	13,978.77
45%	14,955.45
40%	16,023.98
35%	17,169.96
30%	18,413.84
25%	19,834.51
20%	21,338.66
15%	23,042.05
10%	24,971.19
5%	27,316.04
0%	29,998.92

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	155.76	156.76
Standard Deviation	47.44	47.44
Selected range is from -Infinity to 374.00		1.00 to 375.00



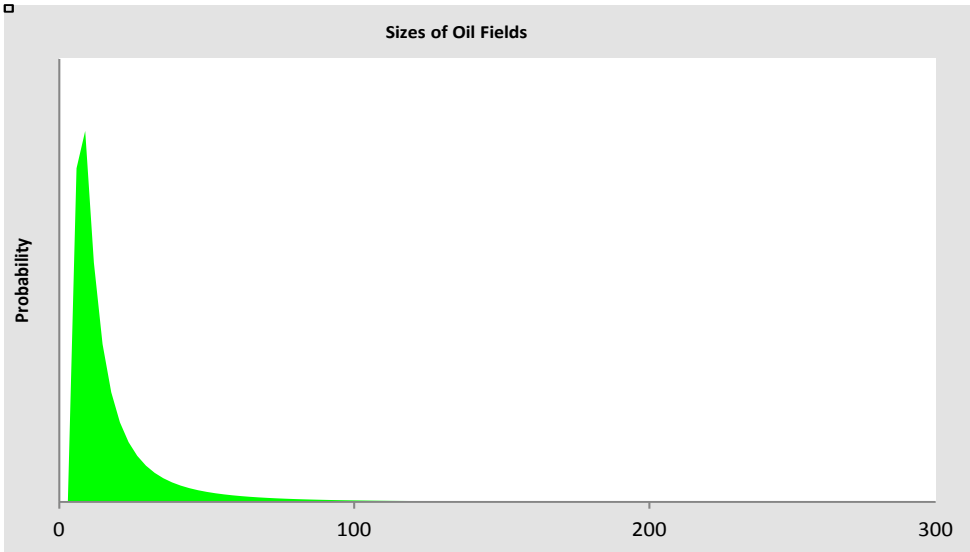
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	156.76	156.51
Median	150.40	149.94
Mode	---	---
Standard Deviation	46.71	46.78
Variance	2,181.92	2,188.10
Skewness	0.8163	0.8342
Kurtosis	3.95	3.96
Coefficient of Variability	0.2980	0.2989
Minimum	43.59	1.00
Maximum	373.60	375.00
Range Width	330.01	374.00
Mean Standard Error	0.21	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	43.59	1.00
95%	92.18	92.28
90%	102.65	102.71
85%	110.41	110.41
80%	117.07	116.94
75%	122.98	122.85
70%	128.79	128.42
65%	134.45	133.81
60%	139.97	139.13
55%	145.10	144.48
50%	150.40	149.94
45%	156.09	155.62
40%	162.12	161.60
35%	168.46	168.03
30%	175.50	175.08
25%	183.29	183.02
20%	192.11	192.28
15%	203.82	203.66
10%	218.90	218.92
5%	243.50	243.53
0%	373.60	375.00

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



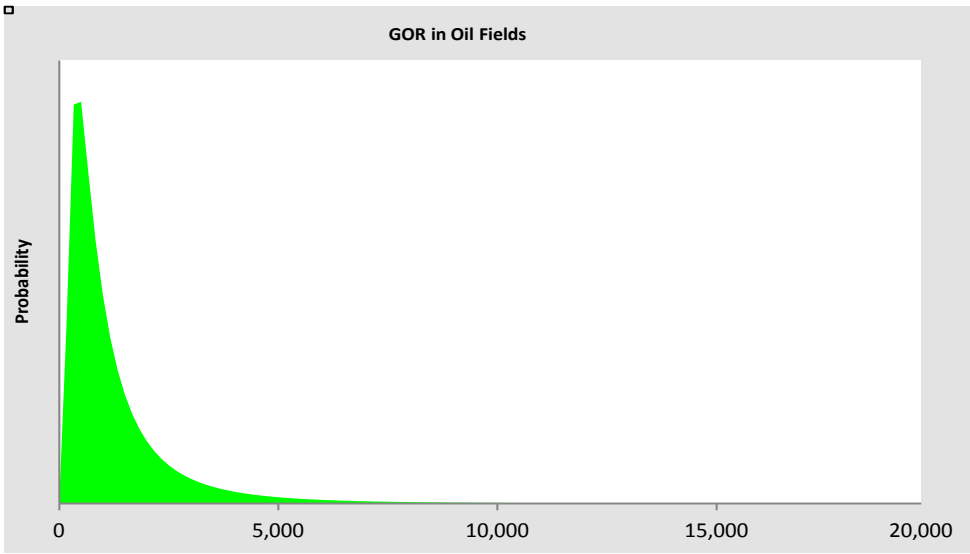
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	19.18	19.14
Median	12.05	11.99
Mode	---	---
Standard Deviation	21.84	22.10
Variance	476.93	488.36
Skewness	4.57	4.66
Kurtosis	34.10	35.09
Coefficient of Variability	1.14	1.15
Minimum	5.05	5.00
Maximum	299.40	300.00
Range Width	294.35	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%	6.49	6.48
85%	7.01	6.99
80%	7.53	7.52
75%	8.08	8.09
70%	8.70	8.71
65%	9.39	9.39
60%	10.15	10.14
55%	11.05	11.00
50%	12.05	11.99
45%	13.20	13.14
40%	14.59	14.49
35%	16.28	16.14
30%	18.38	18.18
25%	20.97	20.79
20%	24.56	24.33
15%	29.78	29.44
10%	38.13	37.83
5%	55.45	55.72
0%	299.40	300.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	12
Mean	1,224.02	1,236.02
Standard Deviation	1,654.43	1,654.43
Selected range is from -Infinity to 16,988.00		12.00 to 17,000.00



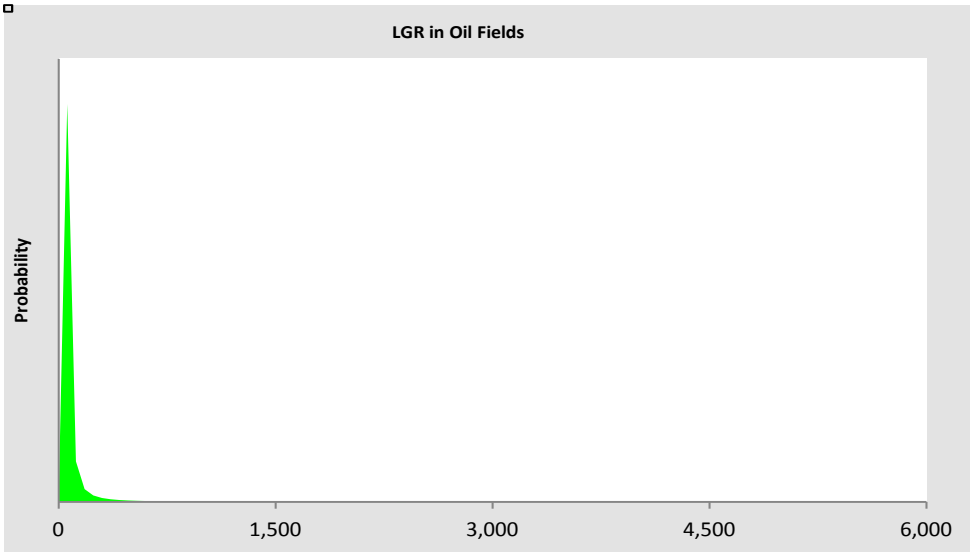
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,215.59	1,213.70
Median	742.92	739.07
Mode	---	---
Standard Deviation	1,471.63	1,474.55
Variance	2,165,681.95	2,174,289.03
Skewness	3.65	3.64
Kurtosis	23.14	22.89
Coefficient of Variability	1.21	1.21
Minimum	21.02	12.00
Maximum	16,975.30	17,000.00
Range Width	16,954.28	16,988.00
Mean Standard Error	6.58	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	21.02	12.00
95%	148.77	148.05
90%	210.48	209.02
85%	268.31	264.93
80%	323.75	320.47
75%	379.86	377.74
70%	439.93	438.17
65%	505.83	503.05
60%	576.44	573.71
55%	657.11	651.73
50%	742.91	739.07
45%	842.39	838.32
40%	955.51	953.03
35%	1,092.64	1,088.33
30%	1,253.09	1,251.95
25%	1,457.28	1,456.43
20%	1,717.97	1,723.87
15%	2,089.02	2,098.27
10%	2,699.09	2,686.47
5%	3,887.09	3,869.39
0%	16,975.30	17,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	82.36	83.36
Standard Deviation	749.25	749.25
Selected range is from -Infinity to 5,999.00		1.00 to 6,000.00



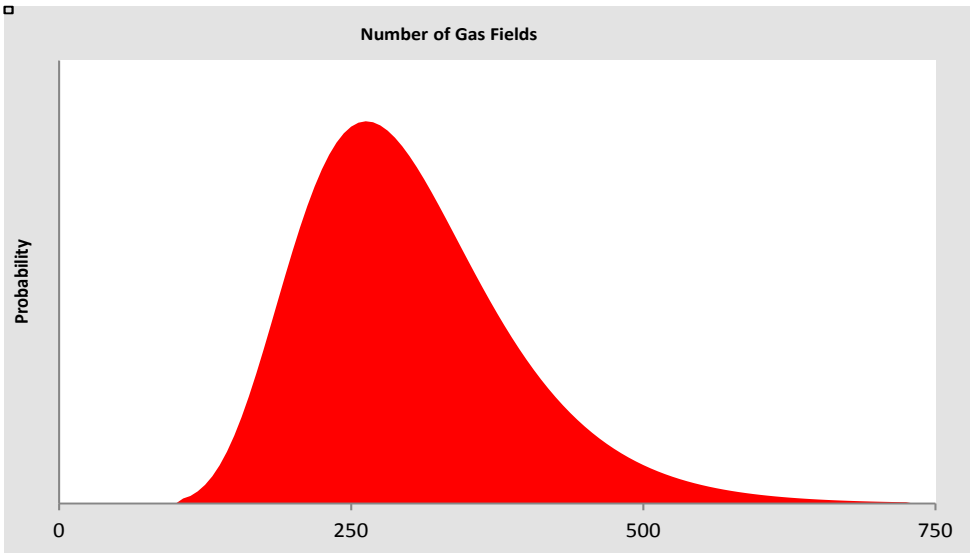
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	69.72	73.35
Median	10.19	9.98
Mode	---	---
Standard Deviation	261.78	264.01
Variance	68,526.87	69,703.46
Skewness	10.23	10.48
Kurtosis	142.41	151.17
Coefficient of Variability	3.75	3.60
Minimum	1.00	1.00
Maximum	5,902.90	6,000.00
Range Width	5,901.90	5,999.00
Mean Standard Error	1.17	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.29	1.28
90%	1.62	1.61
85%	2.03	2.02
80%	2.58	2.53
75%	3.23	3.17
70%	4.06	3.98
65%	5.10	4.99
60%	6.43	6.27
55%	8.13	7.89
50%	10.19	9.98
45%	12.89	12.69
40%	16.49	16.29
35%	21.31	21.17
30%	28.51	28.02
25%	38.49	38.02
20%	54.18	53.57
15%	80.43	80.08
10%	133.79	133.05
5%	278.80	282.22
0%	5,902.90	6,000.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	302.05	303.05
Standard Deviation	91.79	91.79
Selected range is from -Infinity to 724.00		1.00 to 725.00



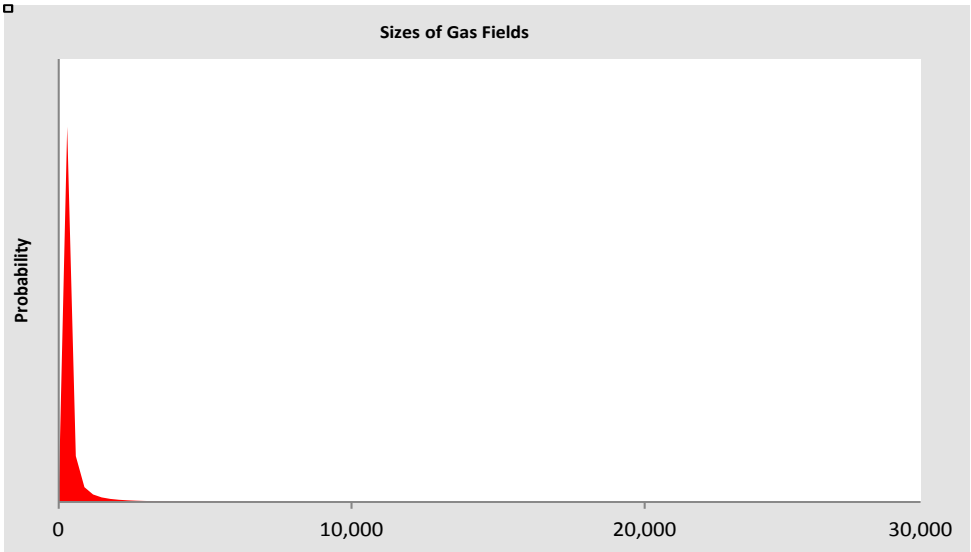
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	302.66	302.56
Median	290.36	289.89
Mode	---	---
Standard Deviation	90.37	90.51
Variance	8,166.67	8,192.81
Skewness	0.8254	0.8323
Kurtosis	3.94	3.95
Coefficient of Variability	0.2986	0.2992
Minimum	79.61	1.00
Maximum	722.08	725.00
Range Width	642.46	724.00
Mean Standard Error	0.40	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	79.61	1.00
95%	178.31	178.23
90%	197.90	198.43
85%	213.22	213.34
80%	225.98	226.00
75%	237.50	237.45
70%	248.36	248.23
65%	258.87	258.66
60%	269.14	268.96
55%	279.76	279.31
50%	290.36	289.89
45%	301.44	300.87
40%	313.18	312.46
35%	325.51	324.90
30%	338.67	338.54
25%	354.51	353.90
20%	371.40	371.82
15%	392.99	393.83
10%	423.26	423.33
5%	471.24	470.92
0%	722.08	725.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	453.12	483.12
Standard Deviation	3,391.82	3,391.82
Selected range is from -Infinity to 29,970.00		30.00 to 30,000.00



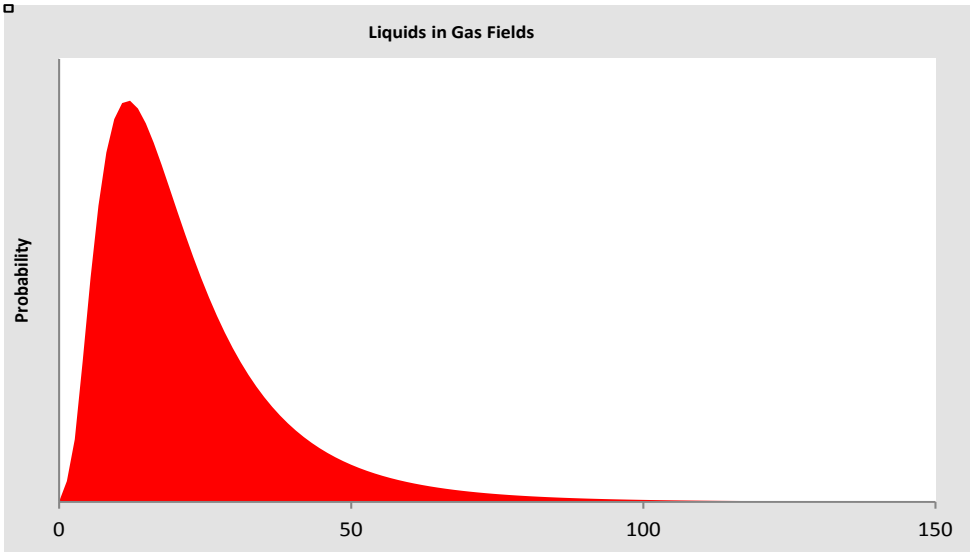
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	427.71	433.58
Median	89.31	89.85
Mode	---	---
Standard Deviation	1,444.04	1,377.71
Variance	2,085,263.16	1,898,093.93
Skewness	9.84	9.84
Kurtosis	134.23	134.63
Coefficient of Variability	3.38	3.18
Minimum	30.02	30.00
Maximum	29,734.72	30,000.00
Range Width	29,704.70	29,970.00
Mean Standard Error	6.46	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.02	30.00
95%	32.17	32.19
90%	34.46	34.55
85%	37.34	37.46
80%	40.88	41.03
75%	45.33	45.43
70%	50.81	50.87
65%	57.53	57.59
60%	65.76	65.97
55%	76.13	76.50
50%	89.31	89.85
45%	106.64	107.03
40%	129.32	129.55
35%	159.72	159.75
30%	200.35	201.54
25%	259.74	261.81
20%	352.83	354.08
15%	505.08	508.74
10%	799.83	811.41
5%	1,605.98	1,639.28
0%	29,734.72	30,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.1
Mean	23.14	23.24
Standard Deviation	16.34	16.34
Selected range is from -Infinity to 134.90		0.10 to 135.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	23.15	23.10
Median	19.06	18.98
Mode	---	---
Standard Deviation	15.73	15.70
Variance	247.48	246.50
Skewness	1.95	1.97
Kurtosis	8.63	8.83
Coefficient of Variability	0.6797	0.6798
Minimum	1.04	0.10
Maximum	133.42	135.00
Range Width	132.38	134.90
Mean Standard Error	0.07	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.04	0.10
95%	6.74	6.74
90%	8.44	8.46
85%	9.82	9.87
80%	11.15	11.16
75%	12.36	12.40
70%	13.61	13.63
65%	14.86	14.88
60%	16.22	16.18
55%	17.56	17.54
50%	19.06	18.98
45%	20.58	20.55
40%	22.34	22.28
35%	24.29	24.22
30%	26.52	26.45
25%	29.27	29.08
20%	32.47	32.32
15%	36.63	36.55
10%	42.78	42.66
5%	53.81	53.59
0%	133.42	135.00

End of Assumptions

Simulation started on 9/13/2011 at 4:05 PM
Simulation stopped on 9/13/2011 at 4:41 PM