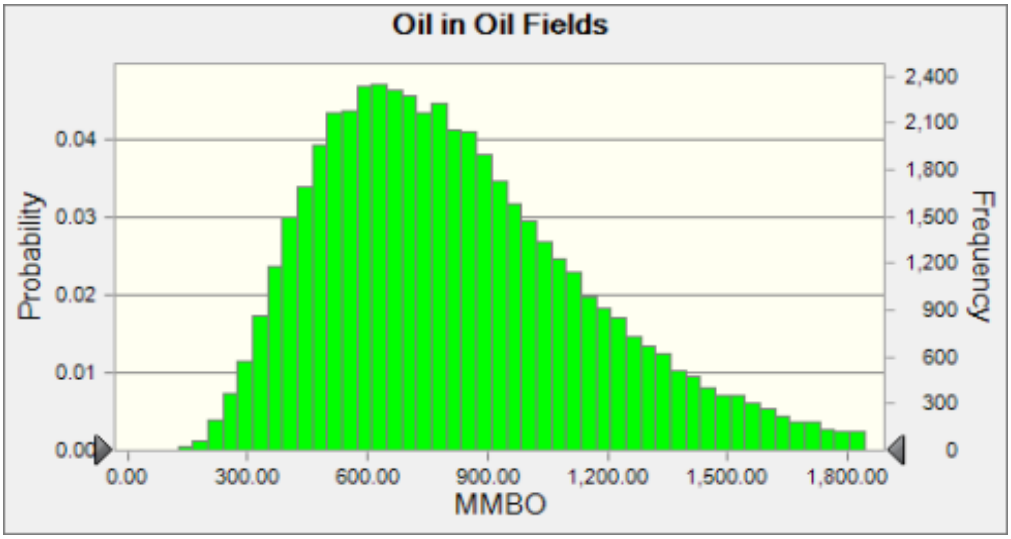
31150101
Pre-Jurassic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 13.59 to 2,974.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.61



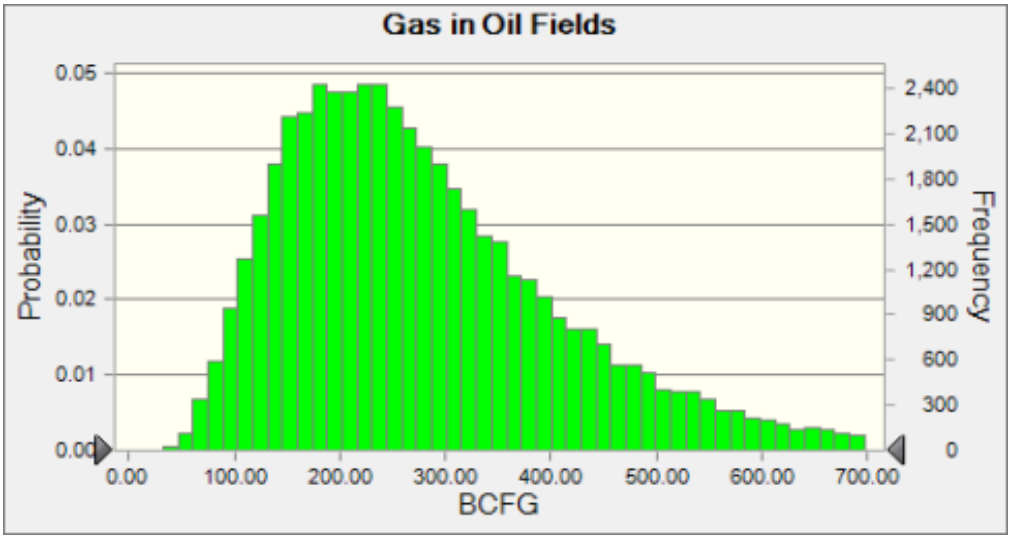
Statistics:	Forecast values
Trials	50,000
Mean	832.64
Median	772.47
Mode	---
Standard Deviation	359.96
Variance	129,571.38
Skewness	1.0000
Kurtosis	4.35
Coefficient of Variability	0.4323
Minimum	13.59
Maximum	2,974.03
Range Width	2,960.44
Mean Standard Error	1.61

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	13.59
95%	364.07
90%	429.61
85%	481.56
80%	526.30
75%	569.35
70%	609.04
65%	648.66
60%	688.78
55%	730.14
50%	772.47
45%	816.07
40%	862.20
35%	910.89
30%	965.67
25%	1,029.53
20%	1,103.61
15%	1,195.92
10%	1,317.23
5%	1,515.99
0%	2,974.03

Forecast: Gas in Oil Fields

Summary:
Entire range is from 3.79 to 1,588.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.66



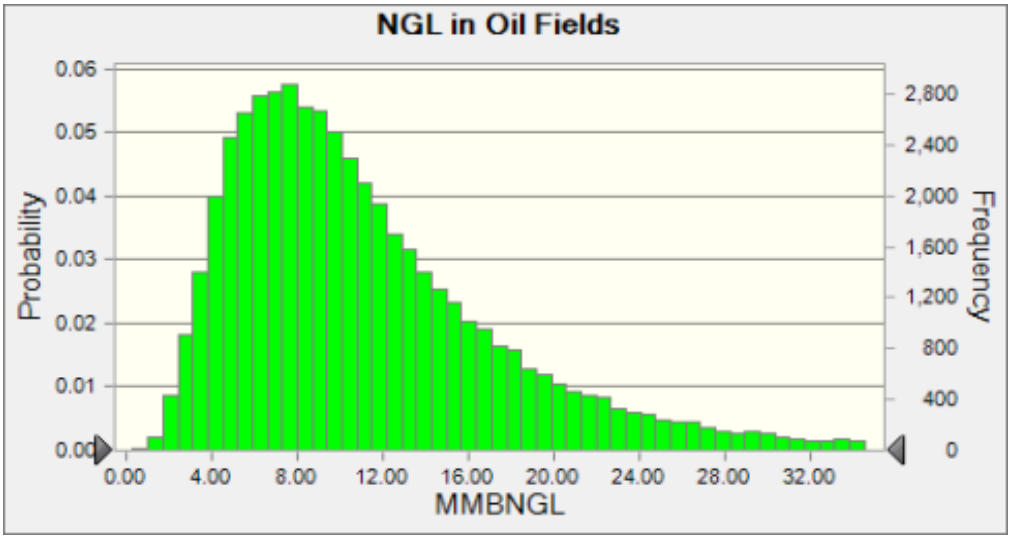
Statistics:	Forecast values
Trials	50,000
Mean	285.40
Median	255.09
Mode	---
Standard Deviation	146.95
Variance	21,593.11
Skewness	1.48
Kurtosis	6.92
Coefficient of Variability	0.5149
Minimum	3.79
Maximum	1,588.28
Range Width	1,584.48
Mean Standard Error	0.66

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	3.79
95%	108.77
90%	132.39
85%	150.05
80%	166.01
75%	181.09
70%	195.89
65%	210.83
60%	225.23
55%	239.95
50%	255.09
45%	271.52
40%	289.19
35%	308.36
30%	330.10
25%	355.13
20%	386.04
15%	424.32
10%	477.29
5%	563.16
0%	1,588.28

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.33 to 297.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.04



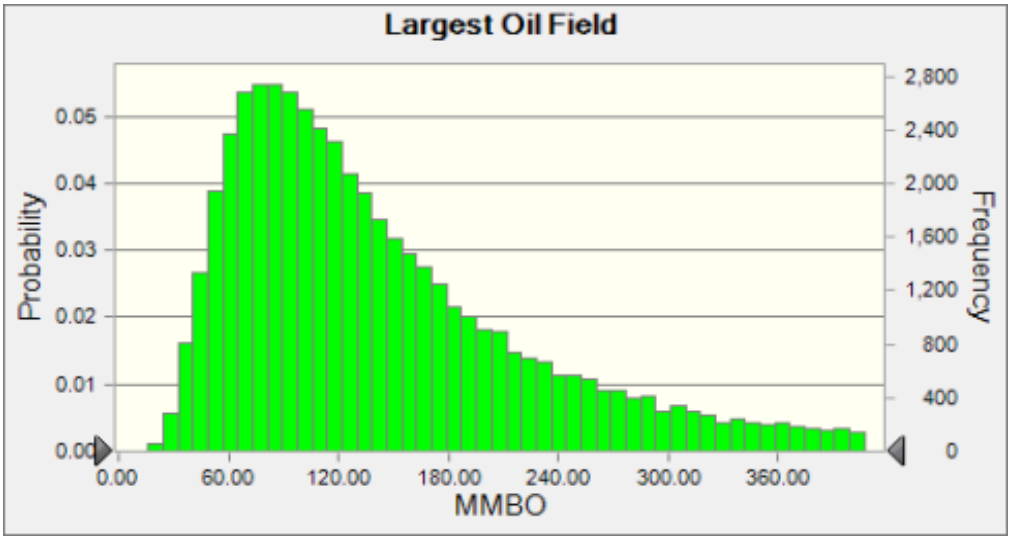
Statistics:	Forecast values
Trials	50,000
Mean	11.61
Median	9.73
Mode	---
Standard Deviation	8.17
Variance	66.77
Skewness	4.48
Kurtosis	67.35
Coefficient of Variability	0.7035
Minimum	0.33
Maximum	297.65
Range Width	297.32
Mean Standard Error	0.04

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.33
95%	3.66
90%	4.55
85%	5.26
80%	5.92
75%	6.55
70%	7.17
65%	7.77
60%	8.41
55%	9.04
50%	9.73
45%	10.46
40%	11.25
35%	12.14
30%	13.17
25%	14.39
20%	15.86
15%	17.75
10%	20.46
5%	25.44
0%	297.65

Forecast: Largest Oil Field

Summary:
Entire range is from 7.84 to 499.88
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.41



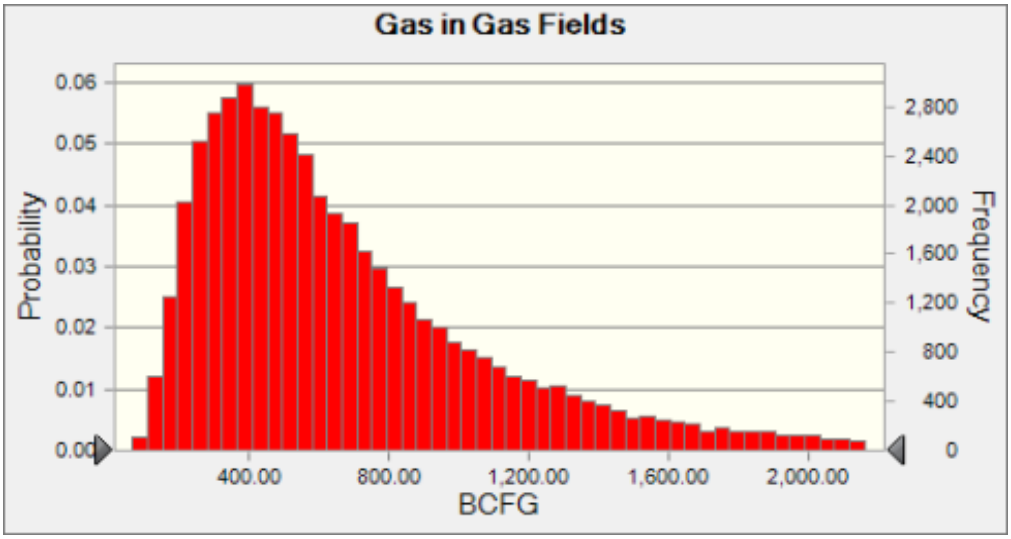
Statistics:	Forecast values
Trials	50,000
Mean	148.59
Median	122.35
Mode	---
Standard Deviation	92.32
Variance	8,522.11
Skewness	1.39
Kurtosis	4.75
Coefficient of Variability	0.6213
Minimum	7.84
Maximum	499.88
Range Width	492.04
Mean Standard Error	0.41

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	7.84
95%	48.66
90%	58.84
85%	67.14
80%	74.68
75%	82.08
70%	89.56
65%	97.09
60%	105.06
55%	113.44
50%	122.35
45%	132.24
40%	143.25
35%	156.22
30%	170.41
25%	187.98
20%	209.81
15%	238.80
10%	279.52
5%	347.97
0%	499.88

Forecast: Gas in Gas Fields

Summary:
Entire range is from 68.13 to 5,902.51
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.31



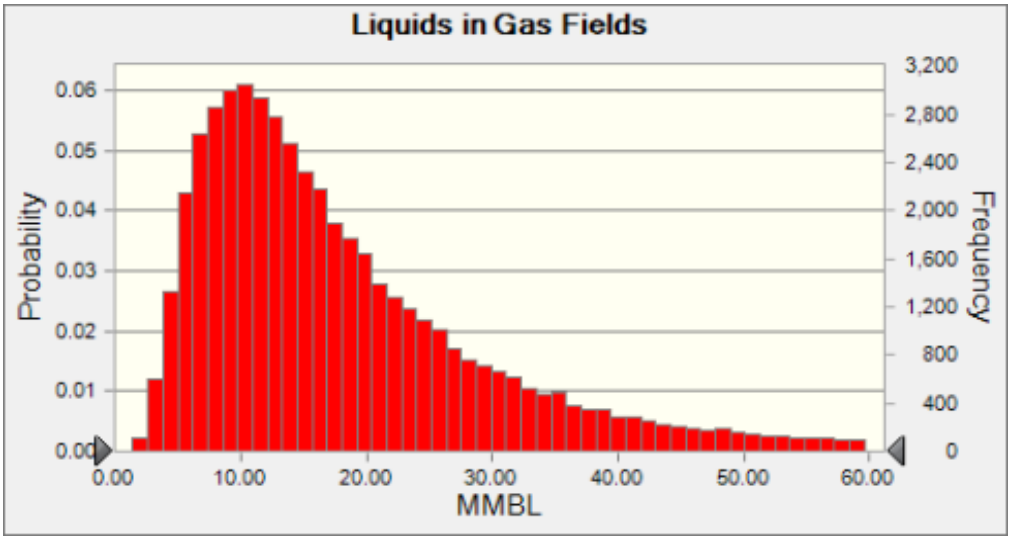
Statistics:	Forecast values
Trials	50,000
Mean	716.34
Median	569.29
Mode	---
Standard Deviation	515.87
Variance	266,121.08
Skewness	2.14
Kurtosis	9.92
Coefficient of Variability	0.7201
Minimum	68.13
Maximum	5,902.51
Range Width	5,834.38
Mean Standard Error	2.31

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	68.13
95%	209.08
90%	256.82
85%	296.87
80%	335.48
75%	372.27
70%	408.01
65%	445.47
60%	484.30
55%	525.58
50%	569.29
45%	618.99
40%	673.79
35%	734.87
30%	805.42
25%	893.68
20%	1,003.38
15%	1,146.84
10%	1,350.22
5%	1,734.19
0%	5,902.51

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.38 to 190.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



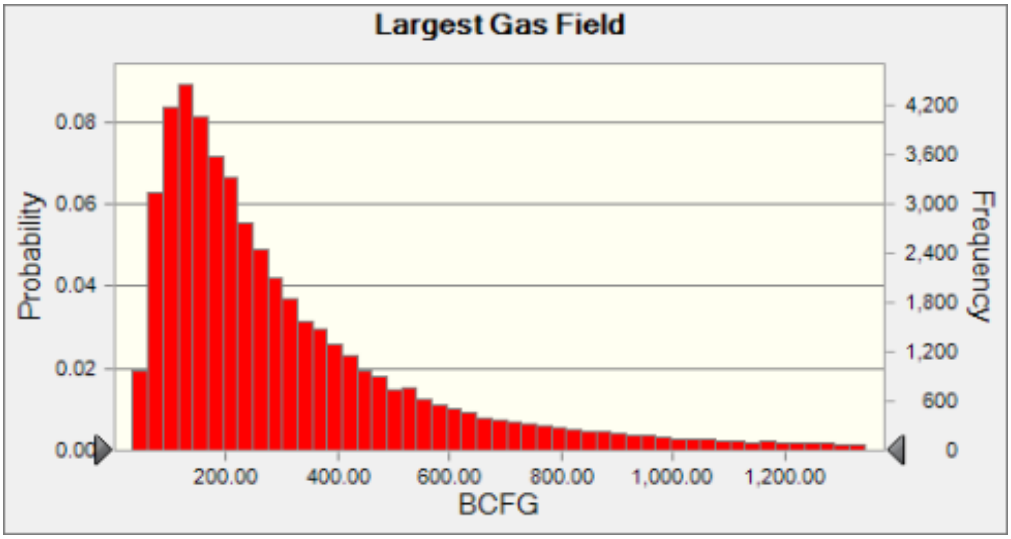
Statistics:	Forecast values
Trials	50,000
Mean	19.04
Median	14.95
Mode	---
Standard Deviation	14.49
Variance	209.86
Skewness	2.45
Kurtosis	12.80
Coefficient of Variability	0.7608
Minimum	1.38
Maximum	190.65
Range Width	189.27
Mean Standard Error	0.06

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.38
95%	5.22
90%	6.51
85%	7.60
80%	8.63
75%	9.63
70%	10.58
65%	11.60
60%	12.62
55%	13.71
50%	14.95
45%	16.21
40%	17.73
35%	19.41
30%	21.36
25%	23.76
20%	26.60
15%	30.58
10%	36.10
5%	47.00
0%	190.65

Forecast: Largest Gas Field

Summary:
Entire range is from 33.22 to 2,994.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.59



Statistics:	Forecast values
Trials	50,000
Mean	349.56
Median	232.62
Mode	---
Standard Deviation	354.66
Variance	125,783.18
Skewness	2.93
Kurtosis	14.43
Coefficient of Variability	1.01
Minimum	33.22
Maximum	2,994.99
Range Width	2,961.77
Mean Standard Error	1.59

Forecast: Largest Gas Field (continued)

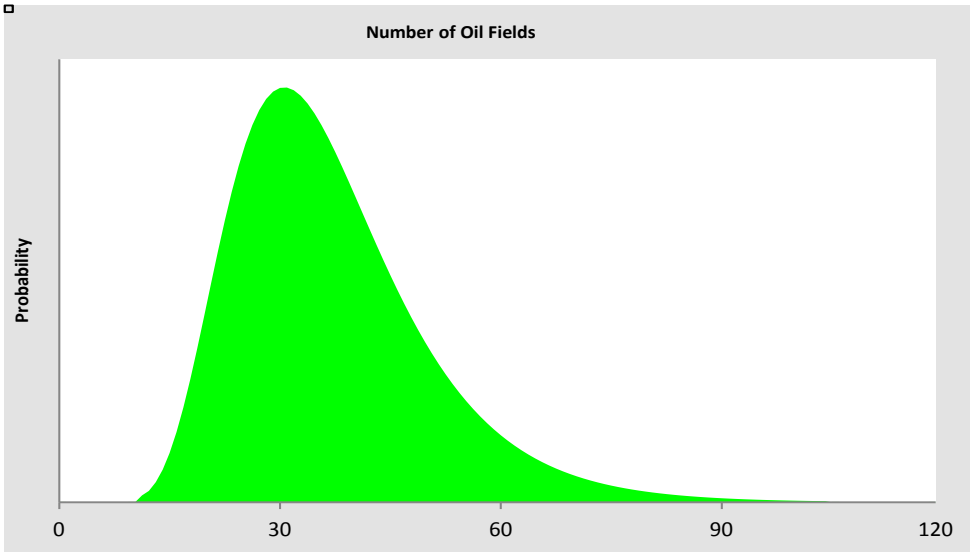
Percentiles:	BCFG
100%	33.22
95%	75.07
90%	93.14
85%	108.90
80%	123.57
75%	138.80
70%	154.64
65%	171.97
60%	190.62
55%	210.65
50%	232.62
45%	258.21
40%	287.54
35%	321.82
30%	363.87
25%	414.98
20%	482.58
15%	576.95
10%	733.97
5%	1,045.85
0%	2,994.99

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



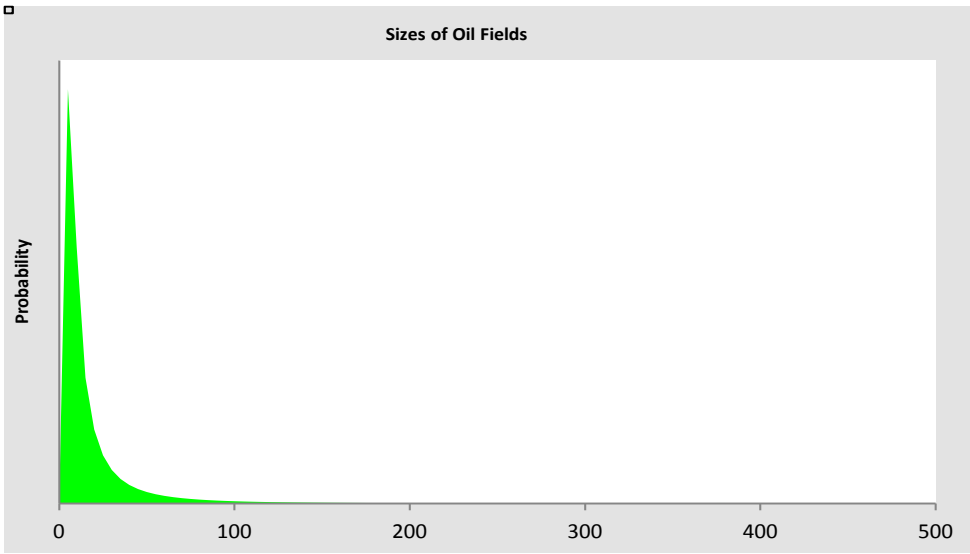
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	37.28	37.22
Median	34.98	34.98
Mode	---	---
Standard Deviation	13.40	13.34
Variance	179.44	178.07
Skewness	1.03	1.03
Kurtosis	4.50	4.52
Coefficient of Variability	0.3593	0.3585
Minimum	8.54	1.00
Maximum	104.63	105.00
Range Width	96.09	104.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.54	1.00
95%	19.79	19.75
90%	22.36	22.38
85%	24.38	24.36
80%	26.08	26.07
75%	27.66	27.63
70%	29.12	29.12
65%	30.55	30.57
60%	32.02	32.01
55%	33.49	33.48
50%	34.98	34.98
45%	36.58	36.56
40%	38.25	38.24
35%	40.12	40.06
30%	42.11	42.07
25%	44.41	44.36
20%	47.21	47.06
15%	50.55	50.40
10%	55.20	54.96
5%	62.72	62.45
0%	104.63	105.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	18.09	23.09
Standard Deviation	43.13	43.13
Selected range is from -Infinity to 495.00		5.00 to 500.00



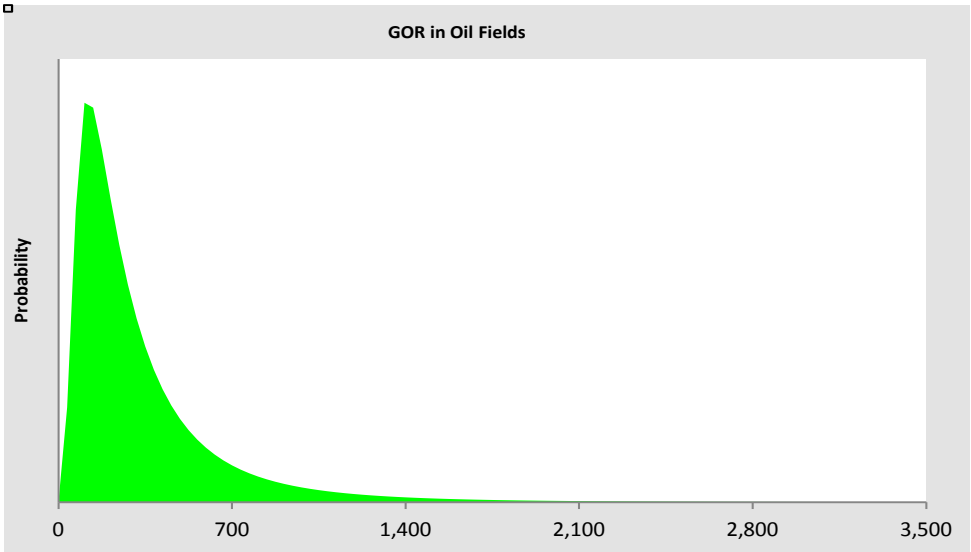
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	22.25	22.33
Median	12.00	11.99
Mode	---	---
Standard Deviation	32.42	32.88
Variance	1,051.32	1,080.99
Skewness	5.66	5.64
Kurtosis	50.25	49.26
Coefficient of Variability	1.46	1.47
Minimum	5.04	5.00
Maximum	499.79	500.00
Range Width	494.75	495.00
Mean Standard Error	0.15	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.04	5.00
95%	5.73	5.72
90%	6.21	6.20
85%	6.68	6.68
80%	7.21	7.19
75%	7.77	7.76
70%	8.42	8.39
65%	9.16	9.11
60%	9.98	9.93
55%	10.90	10.88
50%	12.00	11.99
45%	13.32	13.31
40%	14.99	14.90
35%	16.94	16.88
30%	19.51	19.38
25%	22.72	22.68
20%	27.18	27.24
15%	34.19	34.06
10%	45.55	45.65
5%	71.15	71.70
0%	499.79	500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	317.05	347.05
Standard Deviation	358.62	358.62
Selected range is from -Infinity to 3,470.00		30.00 to 3,500.00



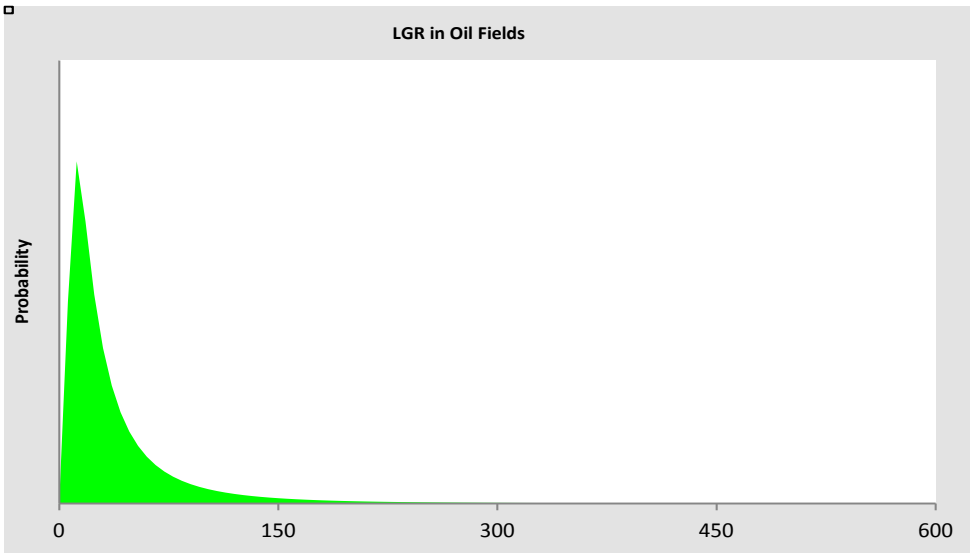
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	341.03	342.75
Median	238.98	239.76
Mode	---	---
Standard Deviation	326.10	329.15
Variance	106,343.28	108,342.98
Skewness	3.09	3.11
Kurtosis	17.39	17.53
Coefficient of Variability	0.96	0.96
Minimum	32.66	30.00
Maximum	3,495.07	3,500.00
Range Width	3,462.42	3,470.00
Mean Standard Error	1.46	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	32.66	30.00
95%	77.17	77.16
90%	95.46	95.58
85%	112.31	111.92
80%	127.94	127.76
75%	143.74	143.77
70%	159.68	160.36
65%	176.81	177.89
60%	195.53	196.70
55%	216.29	217.17
50%	238.98	239.76
45%	264.35	265.08
40%	292.71	293.92
35%	326.43	327.46
30%	366.51	367.40
25%	415.87	416.53
20%	477.03	479.64
15%	563.81	566.24
10%	691.94	698.97
5%	955.13	956.90
0%	3,495.07	3,500.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	36.54	41.54
Standard Deviation	55.89	55.89
Selected range is from -Infinity to 595.00		5.00 to 600.00



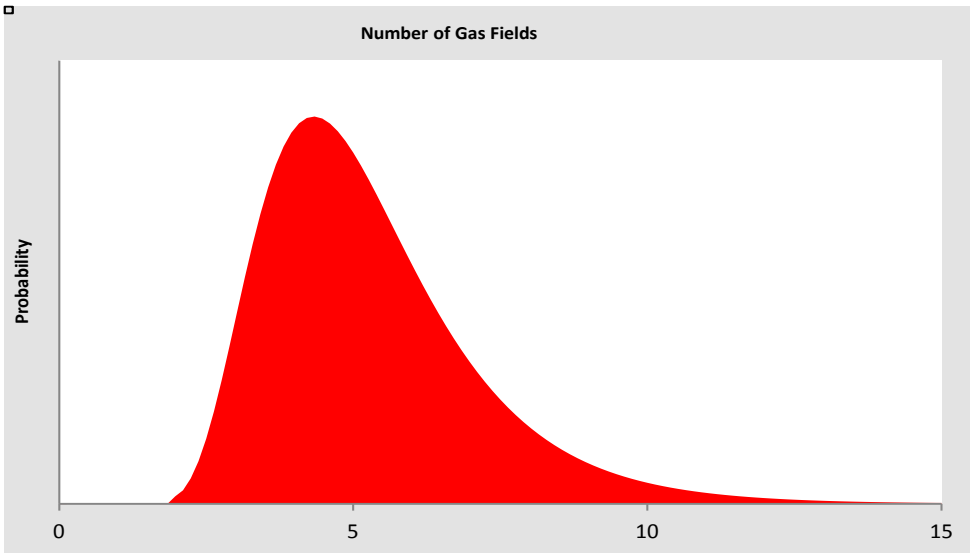
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	40.95	40.73
Median	25.06	24.97
Mode	---	---
Standard Deviation	49.25	48.56
Variance	2,425.74	2,358.31
Skewness	4.07	4.05
Kurtosis	27.81	27.42
Coefficient of Variability	1.20	1.19
Minimum	5.17	5.00
Maximum	597.94	600.00
Range Width	592.78	595.00
Mean Standard Error	0.22	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.17	5.00
95%	8.27	8.28
90%	9.85	9.89
85%	11.38	11.40
80%	12.90	12.93
75%	14.45	14.53
70%	16.20	16.23
65%	18.00	18.09
60%	20.10	20.13
55%	22.40	22.40
50%	25.06	24.97
45%	27.91	27.92
40%	31.34	31.37
35%	35.54	35.47
30%	40.55	40.49
25%	46.70	46.83
20%	55.08	55.23
15%	67.32	67.16
10%	86.82	86.23
5%	127.61	125.51
0%	597.94	600.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.34	5.34
Standard Deviation	1.84	1.84
Selected range is from -Infinity to 14.00		1.00 to 15.00



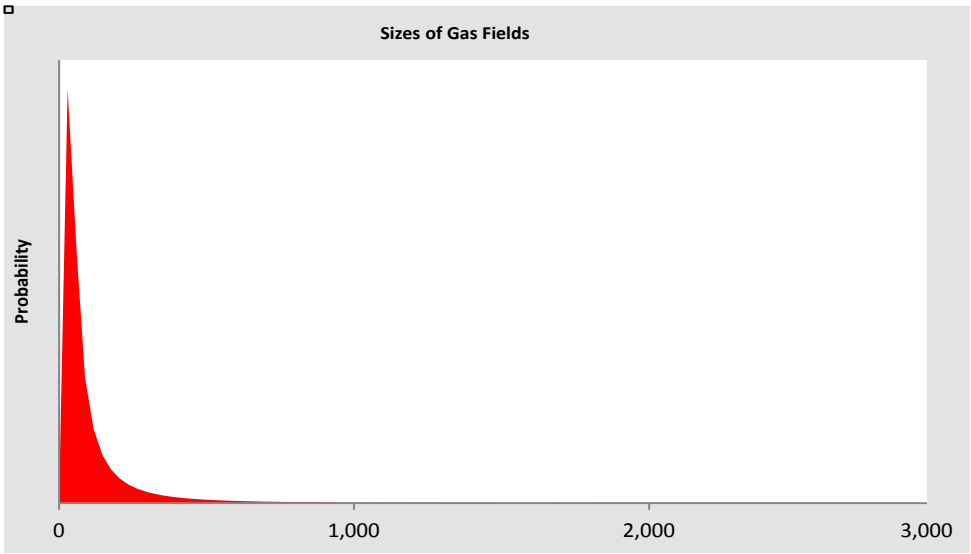
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.34	5.33
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.80	1.80
Variance	3.25	3.24
Skewness	1.17	1.17
Kurtosis	4.99	4.99
Coefficient of Variability	0.3377	0.3376
Minimum	1.56	1.00
Maximum	14.95	15.00
Range Width	13.39	14.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.56	1.00
95%	3.06	3.05
90%	3.39	3.38
85%	3.63	3.63
80%	3.85	3.84
75%	4.04	4.04
70%	4.24	4.23
65%	4.42	4.42
60%	4.61	4.61
55%	4.80	4.80
50%	5.00	5.00
45%	5.21	5.21
40%	5.43	5.43
35%	5.68	5.67
30%	5.95	5.94
25%	6.26	6.25
20%	6.63	6.62
15%	7.10	7.08
10%	7.72	7.71
5%	8.76	8.76
0%	14.95	15.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	108.57	138.57
Standard Deviation	258.80	258.8
Selected range is from -Infinity to 2,970.00		30.00 to 3,000.00



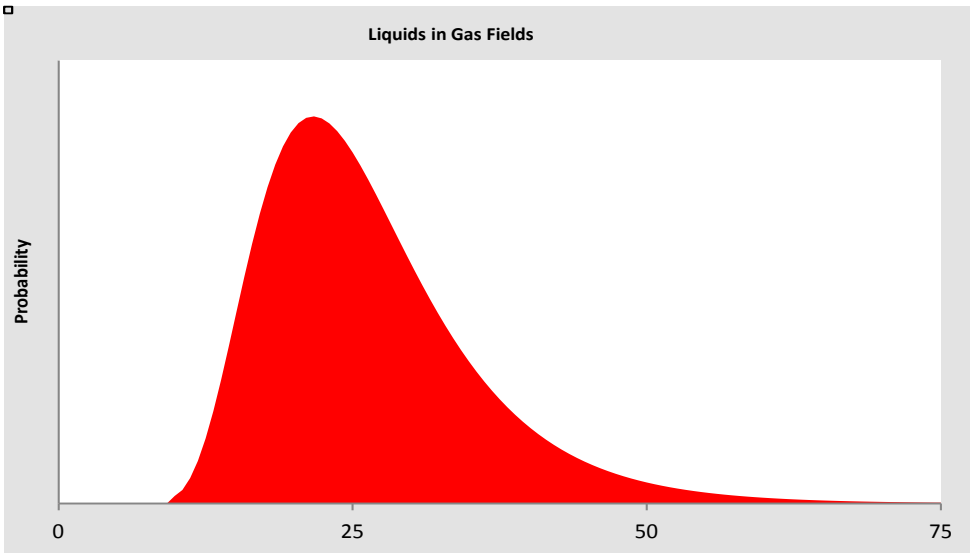
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	134.57	134.00
Median	72.05	71.93
Mode	---	---
Standard Deviation	196.20	197.27
Variance	38,494.46	38,915.80
Skewness	5.54	5.64
Kurtosis	47.90	49.26
Coefficient of Variability	1.46	1.47
Minimum	30.12	30.00
Maximum	2,969.25	3,000.00
Range Width	2,939.13	2,970.00
Mean Standard Error	0.88	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.12	30.00
95%	34.27	34.35
90%	37.09	37.18
85%	39.95	40.06
80%	43.15	43.15
75%	46.53	46.56
70%	50.38	50.36
65%	54.68	54.66
60%	59.75	59.58
55%	65.40	65.27
50%	72.04	71.93
45%	80.20	79.85
40%	89.97	89.42
35%	101.94	101.26
30%	116.92	116.28
25%	137.27	136.06
20%	164.98	163.44
15%	207.47	204.35
10%	277.11	273.92
5%	433.24	430.22
0%	2,969.25	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	21.71	26.71
Standard Deviation	9.18	9.18
Selected range is from -Infinity to 70.00		5.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.61	26.66
Median	24.94	24.99
Mode	---	---
Standard Deviation	9.00	9.00
Variance	81.02	80.97
Skewness	1.20	1.17
Kurtosis	5.09	4.99
Coefficient of Variability	0.3382	0.3376
Minimum	8.43	5.00
Maximum	74.62	75.00
Range Width	66.19	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.43	5.00
95%	15.31	15.26
90%	16.90	16.89
85%	18.11	18.13
80%	19.17	19.21
75%	20.20	20.21
70%	21.13	21.16
65%	22.08	22.10
60%	23.02	23.04
55%	23.93	24.00
50%	24.94	24.99
45%	25.96	26.03
40%	27.07	27.15
35%	28.25	28.36
30%	29.61	29.72
25%	31.14	31.26
20%	32.99	33.10
15%	35.28	35.40
10%	38.37	38.56
5%	43.82	43.82
0%	74.62	75.00

End of Assumptions

Simulation started on 9/28/2011 at 3:48 PM
Simulation stopped on 9/28/2011 at 3:53 PM