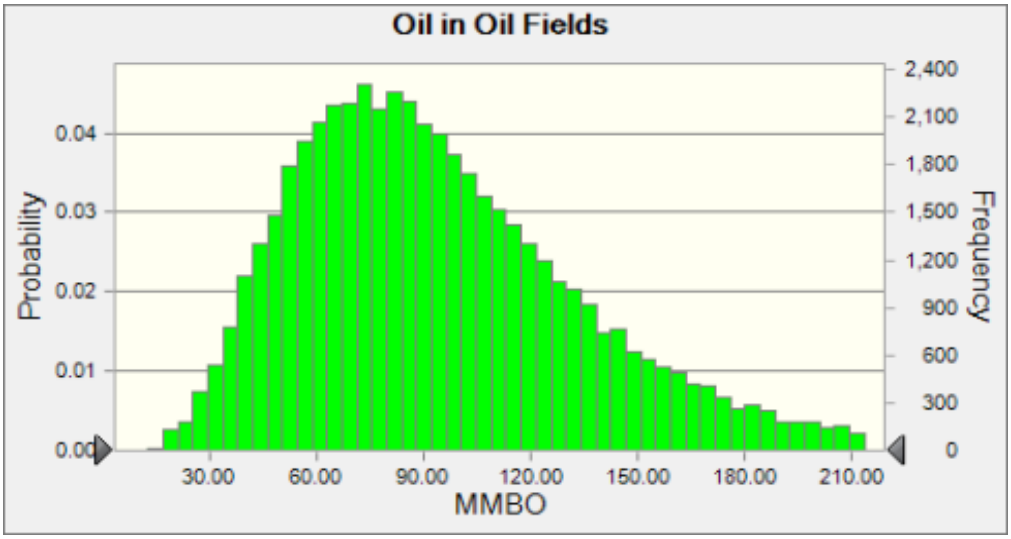
80050101
Cenozoic
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 8.62 to 392.01
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.19



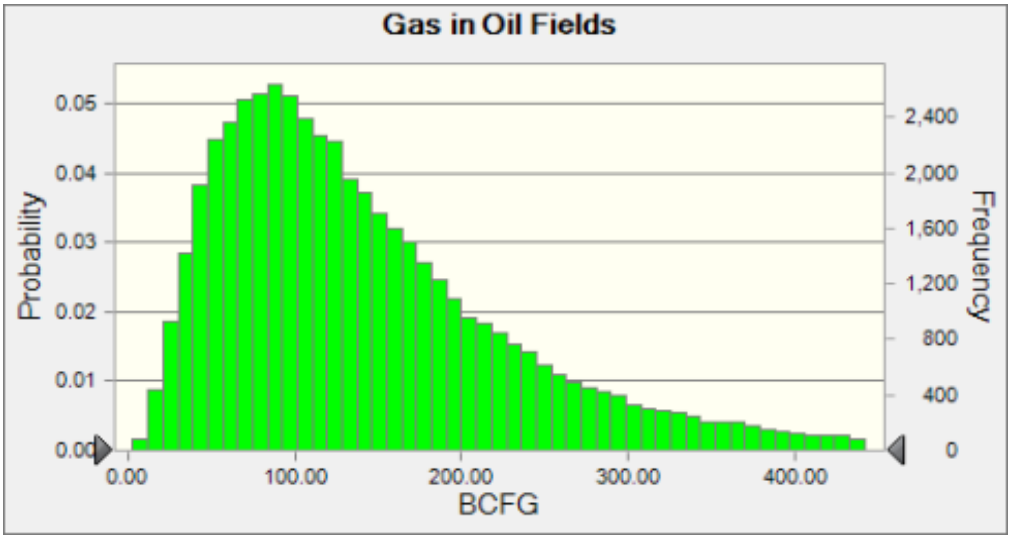
Statistics:	Forecast values
Trials	50,000
Mean	95.22
Median	88.08
Mode	---
Standard Deviation	42.21
Variance	1,781.37
Skewness	1.00
Kurtosis	4.42
Coefficient of Variability	0.4433
Minimum	8.62
Maximum	392.01
Range Width	383.39
Mean Standard Error	0.19

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	8.62
95%	39.89
90%	47.88
85%	54.19
80%	59.55
75%	64.49
70%	69.23
65%	73.89
60%	78.68
55%	83.33
50%	88.08
45%	93.12
40%	98.56
35%	104.44
30%	110.97
25%	118.27
20%	126.82
15%	137.26
10%	152.00
5%	174.69
0%	392.01

Forecast: Gas in Oil Fields

Summary:
Entire range is from 2.67 to 1,245.53
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.47



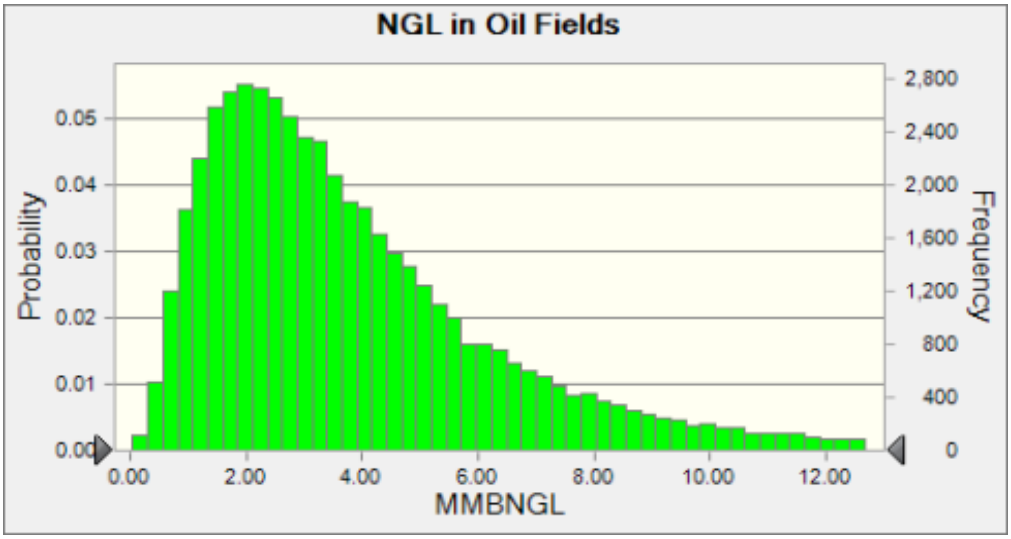
Statistics:	Forecast values
Trials	50,000
Mean	147.95
Median	121.78
Mode	---
Standard Deviation	104.94
Variance	11,011.77
Skewness	2.07
Kurtosis	10.64
Coefficient of Variability	0.7093
Minimum	2.67
Maximum	1,245.53
Range Width	1,242.87
Mean Standard Error	0.47

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	2.67
95%	36.55
90%	48.56
85%	58.27
80%	67.65
75%	76.39
70%	85.27
65%	93.70
60%	102.55
55%	111.93
50%	121.78
45%	132.56
40%	144.28
35%	157.48
30%	171.85
25%	188.93
20%	210.86
15%	238.17
10%	278.07
5%	348.39
0%	1,245.53

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.04 to 43.62
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.01



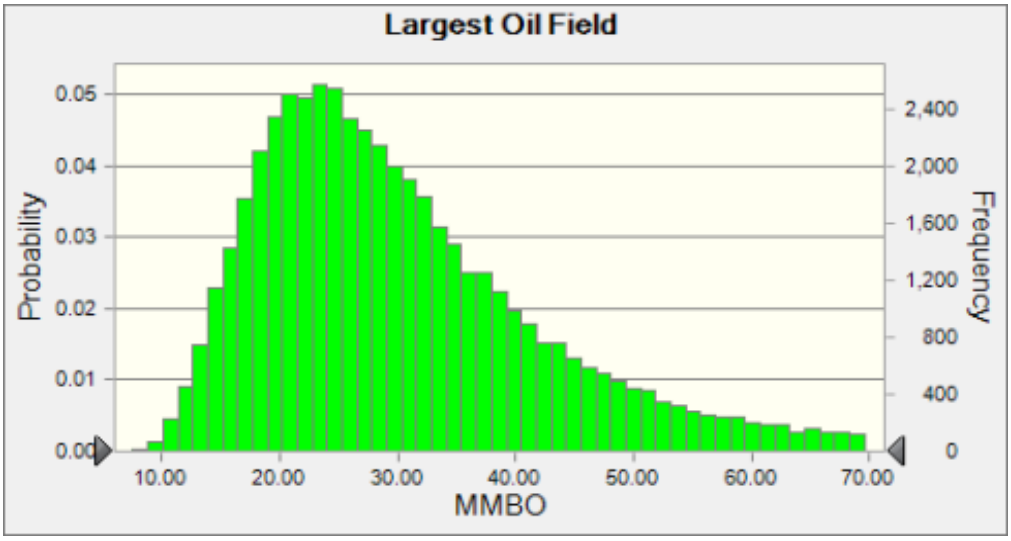
Statistics:	Forecast values
Trials	50,000
Mean	4.01
Median	3.22
Mode	---
Standard Deviation	3.09
Variance	9.56
Skewness	2.63
Kurtosis	16.84
Coefficient of Variability	0.7718
Minimum	0.04
Maximum	43.62
Range Width	43.58
Mean Standard Error	0.01

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.04
95%	0.92
90%	1.23
85%	1.50
80%	1.74
75%	1.97
70%	2.20
65%	2.44
60%	2.69
55%	2.95
50%	3.22
45%	3.51
40%	3.84
35%	4.20
30%	4.61
25%	5.08
20%	5.68
15%	6.49
10%	7.65
5%	9.76
0%	43.62

Forecast: Largest Oil Field

Summary:
Entire range is from 7.56 to 99.94
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



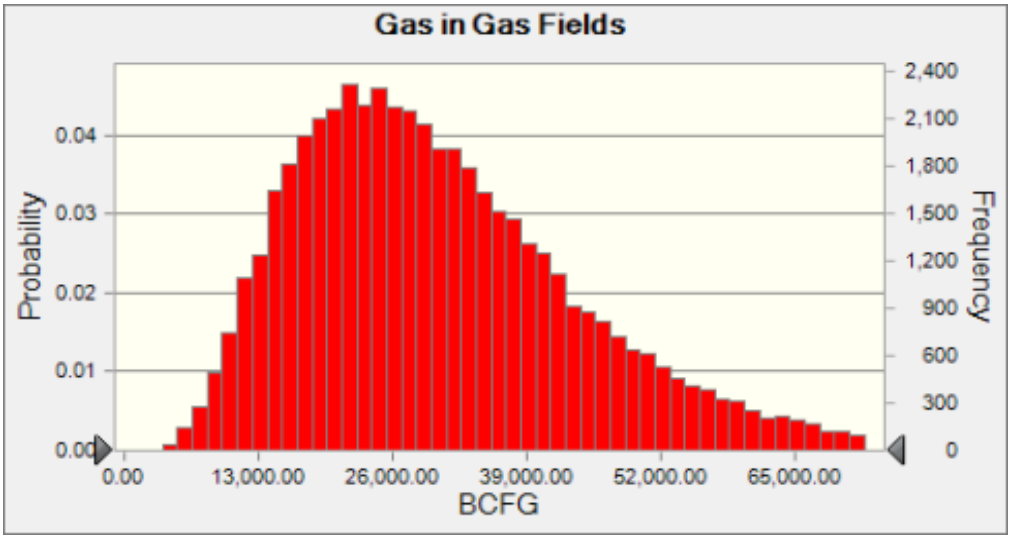
Statistics:	Forecast values
Trials	50,000
Mean	30.98
Median	27.81
Mode	---
Standard Deviation	13.77
Variance	189.56
Skewness	1.46
Kurtosis	5.80
Coefficient of Variability	0.4445
Minimum	7.56
Maximum	99.94
Range Width	92.38
Mean Standard Error	0.06

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	7.56
95%	15.01
90%	17.10
85%	18.69
80%	20.06
75%	21.31
70%	22.60
65%	23.82
60%	25.05
55%	26.40
50%	27.81
45%	29.28
40%	30.88
35%	32.64
30%	34.66
25%	37.07
20%	39.92
15%	43.71
10%	49.02
5%	58.59
0%	99.94

Forecast: Gas in Gas Fields

Summary:
Entire range is from 794.23 to 155,488.89
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 65.16



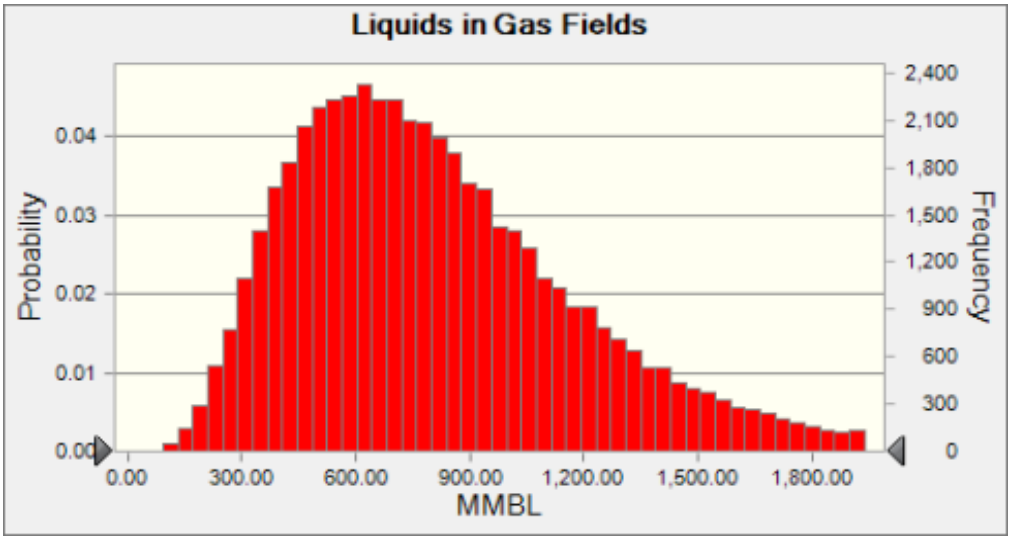
Statistics:	Forecast values
Trials	50,000
Mean	30,862.28
Median	28,365.87
Mode	---
Standard Deviation	14,569.83
Variance	212,279,839.83
Skewness	1.08
Kurtosis	4.77
Coefficient of Variability	0.4721
Minimum	794.23
Maximum	155,488.89
Range Width	154,694.67
Mean Standard Error	65.16

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	794.23
95%	12,008.38
90%	14,693.57
85%	16,718.54
80%	18,532.30
75%	20,249.58
70%	21,832.35
65%	23,436.52
60%	25,032.09
55%	26,687.27
50%	28,365.11
45%	30,143.87
40%	31,996.58
35%	34,000.43
30%	36,252.84
25%	38,734.15
20%	41,550.62
15%	45,332.97
10%	50,329.02
5%	58,385.60
0%	155,488.89

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 14.68 to 3,820.95
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.78



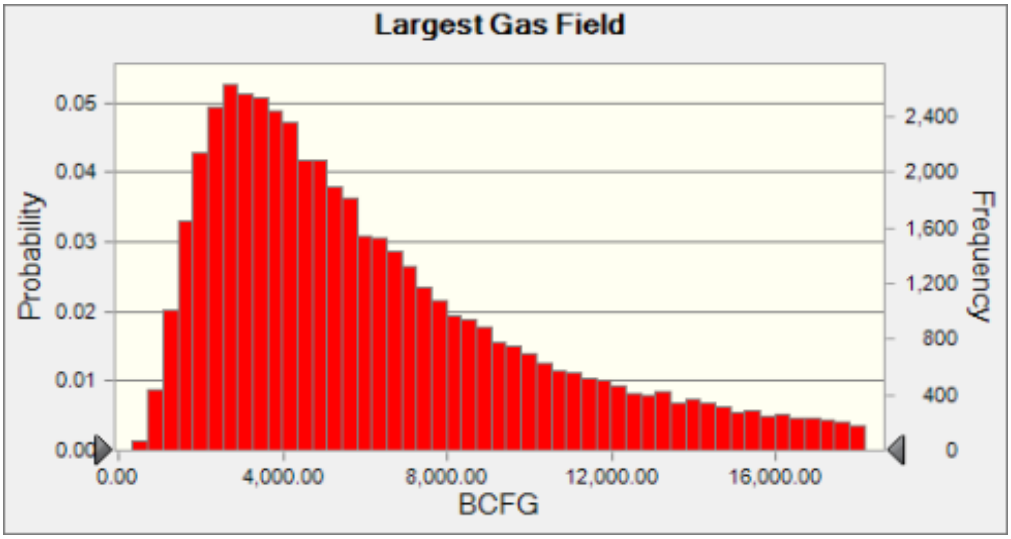
Statistics:	Forecast values
Trials	50,000
Mean	822.98
Median	752.91
Mode	---
Standard Deviation	397.72
Variance	158,183.59
Skewness	1.12
Kurtosis	4.86
Coefficient of Variability	0.4833
Minimum	14.68
Maximum	3,820.95
Range Width	3,806.26
Mean Standard Error	1.78

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	14.68
95%	315.96
90%	385.10
85%	440.18
80%	488.39
75%	532.59
70%	576.75
65%	619.97
60%	662.92
55%	706.65
50%	752.90
45%	799.74
40%	848.85
35%	903.35
30%	963.63
25%	1,033.15
20%	1,115.51
15%	1,217.80
10%	1,352.94
5%	1,578.93
0%	3,820.95

Forecast: Largest Gas Field

Summary:
Entire range is from 328.70 to 19,998.39
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 18.83



Statistics:	Forecast values
Trials	50,000
Mean	6,350.61
Median	5,156.77
Mode	---
Standard Deviation	4,210.25
Variance	17,726,234.12
Skewness	1.14
Kurtosis	3.70
Coefficient of Variability	0.6630
Minimum	328.70
Maximum	19,998.39
Range Width	19,669.69
Mean Standard Error	18.83

Forecast: Largest Gas Field (continued)

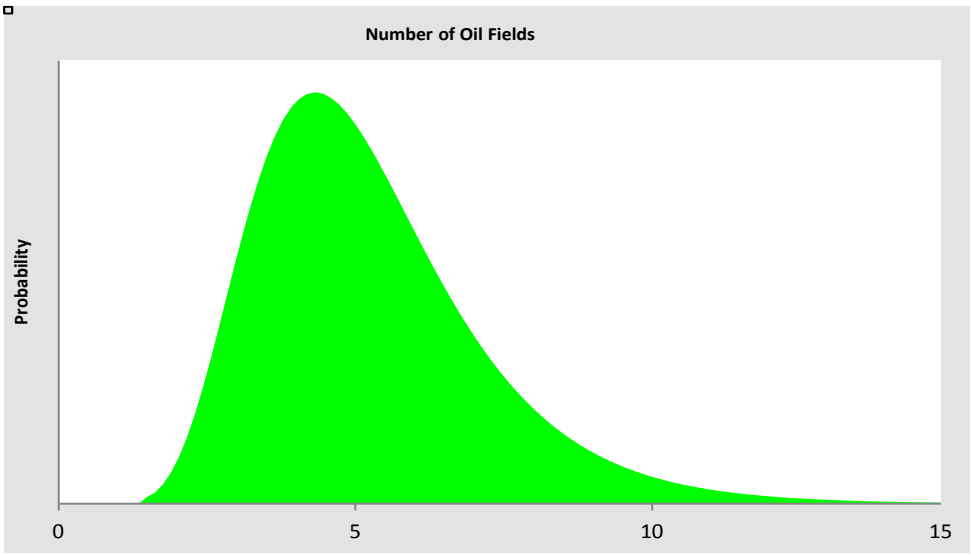
Percentiles:	BCFG
100%	328.70
95%	1,646.92
90%	2,098.11
85%	2,467.91
80%	2,813.77
75%	3,168.91
70%	3,527.04
65%	3,897.94
60%	4,278.87
55%	4,706.16
50%	5,155.96
45%	5,644.74
40%	6,212.71
35%	6,829.55
30%	7,544.54
25%	8,438.32
20%	9,503.86
15%	10,898.39
10%	12,791.45
5%	15,438.72
0%	19,998.39

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0
Mean	5.33	5.33
Standard Deviation	1.96	1.96
Selected range is from -Infinity to 15.00		0.00 to 15.00



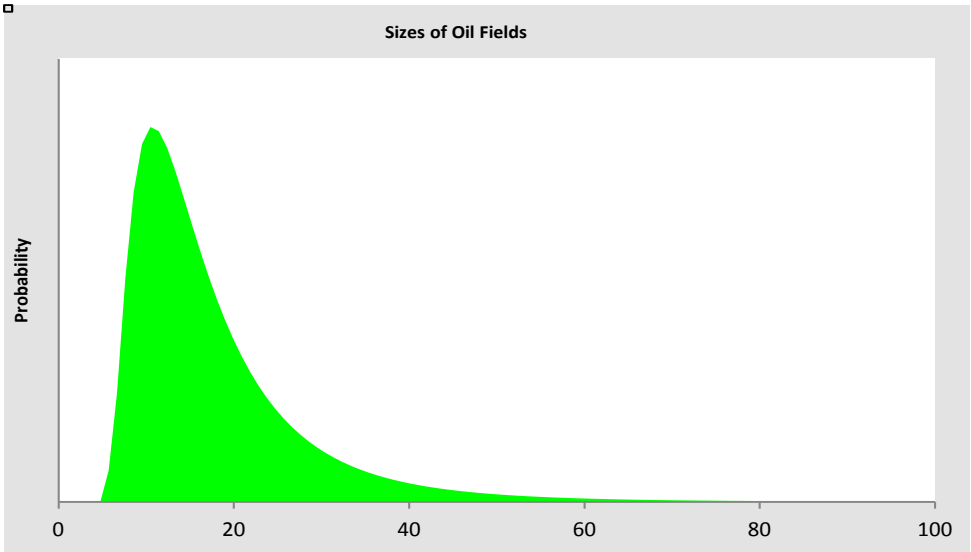
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.32	5.31
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.93	1.92
Variance	3.74	3.70
Skewness	1.03	1.01
Kurtosis	4.53	4.46
Coefficient of Variability	0.3638	0.3617
Minimum	0.98	0.00
Maximum	14.95	15.00
Range Width	13.97	15.00
Mean Standard Error	0.01	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.98	0.00
95%	2.78	2.79
90%	3.17	3.17
85%	3.45	3.46
80%	3.70	3.71
75%	3.93	3.93
70%	4.14	4.15
65%	4.35	4.36
60%	4.56	4.57
55%	4.78	4.78
50%	5.00	5.00
45%	5.23	5.23
40%	5.47	5.47
35%	5.74	5.73
30%	6.03	6.02
25%	6.36	6.35
20%	6.75	6.74
15%	7.22	7.22
10%	7.87	7.87
5%	8.97	8.94
0%	14.95	15.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	13.04	18.04
Standard Deviation	10.91	10.91
Selected range is from -Infinity to 95.00		5.00 to 100.00



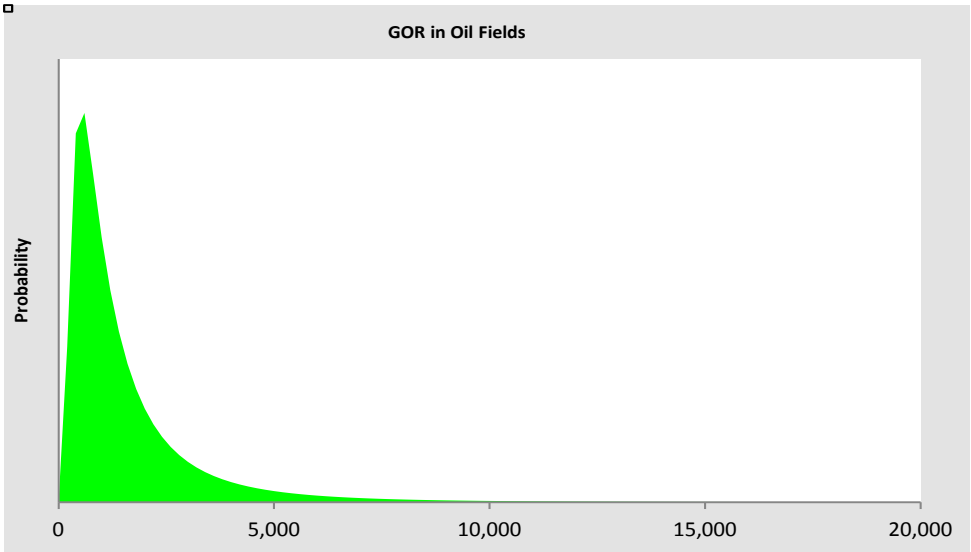
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.90	17.93
Median	14.99	14.99
Mode	---	---
Standard Deviation	10.32	10.36
Variance	106.54	107.29
Skewness	2.35	2.33
Kurtosis	11.31	11.19
Coefficient of Variability	0.5766	0.5776
Minimum	5.42	5.00
Maximum	99.83	100.00
Range Width	94.41	95.00
Mean Standard Error	0.05	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.42	5.00
95%	8.02	8.02
90%	8.94	8.93
85%	9.73	9.70
80%	10.43	10.41
75%	11.14	11.11
70%	11.82	11.82
65%	12.53	12.55
60%	13.32	13.31
55%	14.13	14.12
50%	14.99	14.99
45%	15.92	15.95
40%	17.01	17.01
35%	18.20	18.22
30%	19.58	19.63
25%	21.26	21.32
20%	23.36	23.42
15%	26.14	26.22
10%	30.20	30.34
5%	37.67	37.93
0%	99.83	100.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,486.77	1,586.77
Standard Deviation	1,954.99	1,954.99
Selected range is from -Infinity to 19,900.00		100.00 to 20,000.00



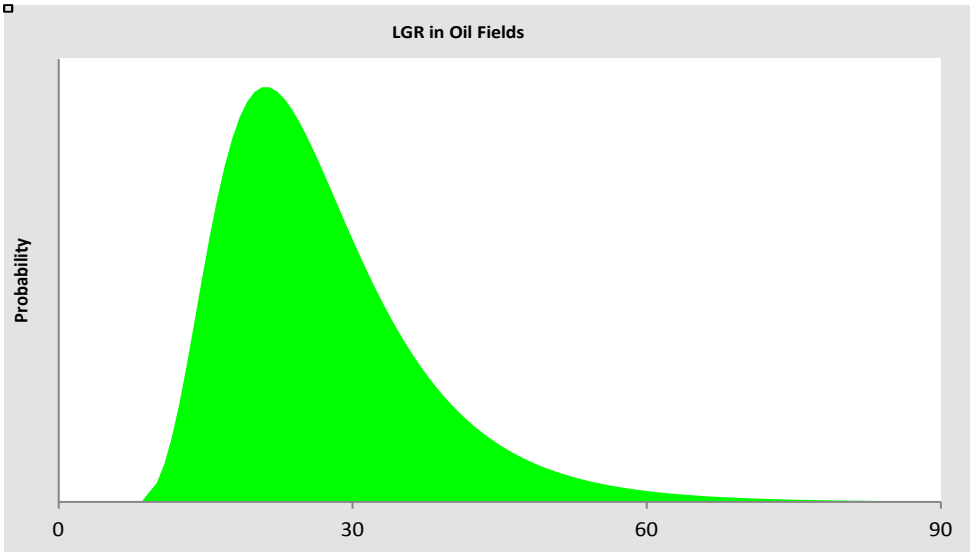
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,550.38	1,560.86
Median	991.32	998.87
Mode	---	---
Standard Deviation	1,729.19	1,751.30
Variance	2,990,111.44	3,067,051.73
Skewness	3.52	3.56
Kurtosis	21.56	21.98
Coefficient of Variability	1.12	1.12
Minimum	113.36	100.00
Maximum	19,770.01	20,000.00
Range Width	19,656.65	19,900.00
Mean Standard Error	7.73	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	113.36	100.00
95%	272.58	273.09
90%	350.34	349.07
85%	419.35	418.39
80%	485.22	486.99
75%	557.61	557.51
70%	630.72	631.71
65%	708.28	711.17
60%	794.54	797.51
55%	887.86	892.62
50%	991.30	998.87
45%	1,116.06	1,119.34
40%	1,250.42	1,258.27
35%	1,414.87	1,421.75
30%	1,609.33	1,619.00
25%	1,852.95	1,864.90
20%	2,177.55	2,185.60
15%	2,620.04	2,633.15
10%	3,302.40	3,333.57
5%	4,708.85	4,734.66
0%	19,770.01	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	22.12	27.12
Standard Deviation	10.44	10.44
Selected range is from -Infinity to 80.00		5.00 to 85.00



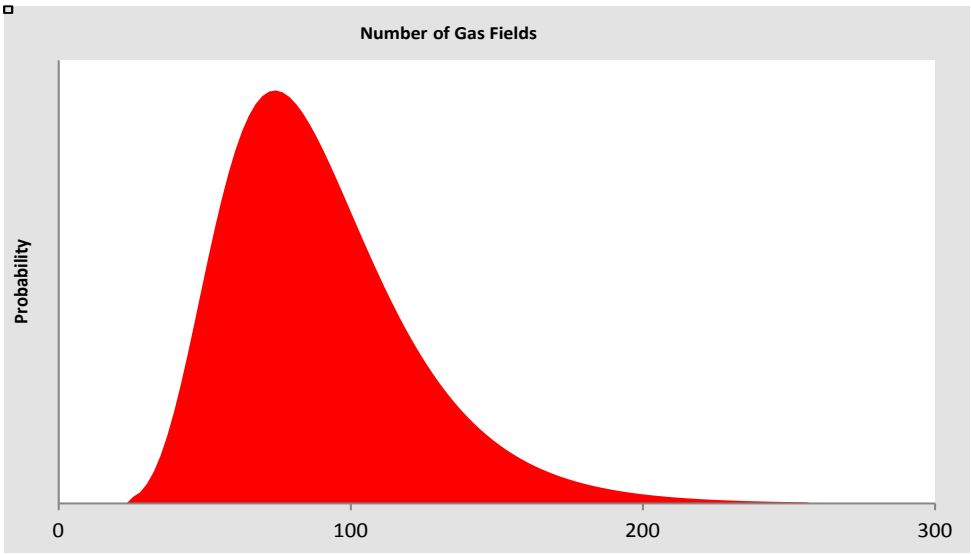
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.95	27.05
Median	24.89	24.99
Mode	---	---
Standard Deviation	10.18	10.21
Variance	103.66	104.25
Skewness	1.30	1.31
Kurtosis	5.49	5.52
Coefficient of Variability	0.3778	0.3775
Minimum	7.11	5.00
Maximum	84.99	85.00
Range Width	77.88	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	7.11	5.00
95%	14.47	14.56
90%	16.16	16.25
85%	17.48	17.56
80%	18.62	18.71
75%	19.69	19.77
70%	20.74	20.80
65%	21.75	21.82
60%	22.78	22.84
55%	23.84	23.89
50%	24.89	24.99
45%	26.06	26.15
40%	27.32	27.39
35%	28.67	28.76
30%	30.20	30.28
25%	31.93	32.04
20%	34.01	34.14
15%	36.58	36.79
10%	40.38	40.46
5%	46.46	46.66
0%	84.99	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	89.56	90.56
Standard Deviation	33.13	33.13
Selected range is from -Infinity to 254.00		1.00 to 255.00



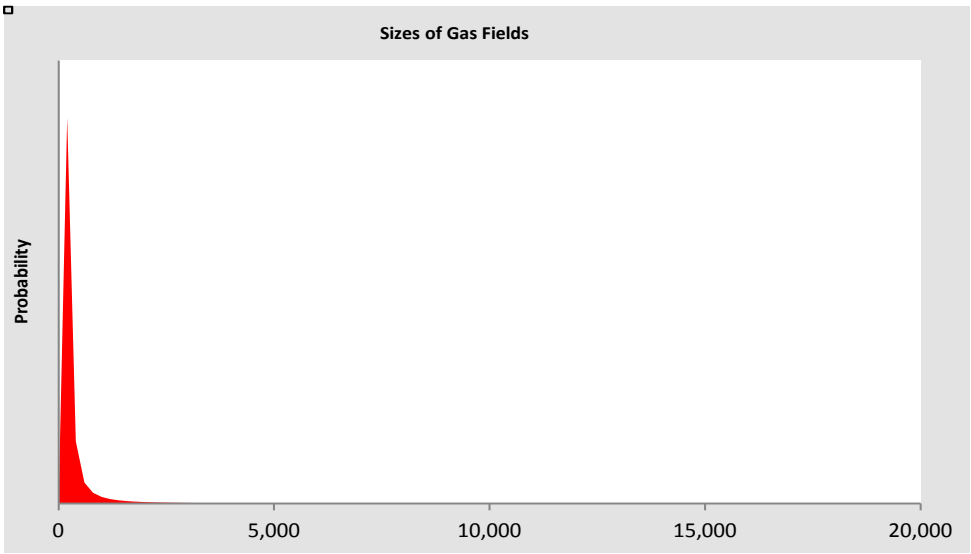
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	90.42	90.37
Median	84.91	84.96
Mode	---	---
Standard Deviation	32.76	32.57
Variance	1,073.28	1,060.78
Skewness	1.04	1.02
Kurtosis	4.62	4.48
Coefficient of Variability	0.3623	0.3604
Minimum	18.91	1.00
Maximum	254.53	255.00
Range Width	235.62	254.00
Mean Standard Error	0.15	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	18.91	1.00
95%	47.29	47.60
90%	54.08	54.07
85%	58.84	58.94
80%	63.12	63.13
75%	67.00	66.96
70%	70.64	70.60
65%	74.26	74.15
60%	77.78	77.69
55%	81.33	81.27
50%	84.91	84.96
45%	88.77	88.82
40%	92.92	92.93
35%	97.42	97.37
30%	102.24	102.28
25%	108.04	107.86
20%	114.60	114.43
15%	122.62	122.59
10%	133.60	133.68
5%	152.14	151.89
0%	254.53	255.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	350.93	380.93
Standard Deviation	2,022.35	2,022.35
Selected range is from -Infinity to 19,970.00		30.00 to 20,000.00



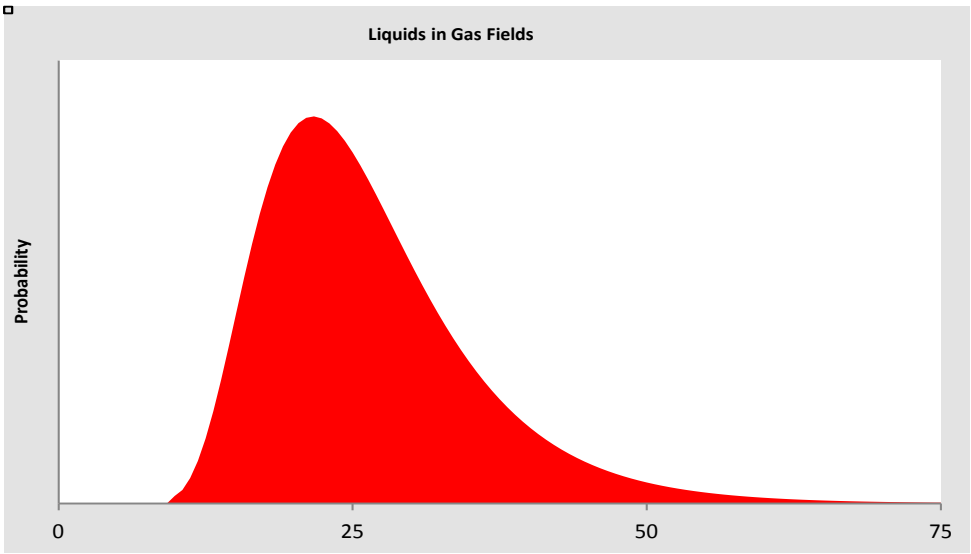
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	333.25	348.13
Median	89.33	89.86
Mode	---	---
Standard Deviation	951.99	980.27
Variance	906,293.10	960,932.77
Skewness	9.20	8.93
Kurtosis	121.23	112.93
Coefficient of Variability	2.86	2.82
Minimum	30.03	30.00
Maximum	19,956.25	20,000.00
Range Width	19,926.22	19,970.00
Mean Standard Error	4.26	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.03	30.00
95%	32.73	32.72
90%	35.34	35.39
85%	38.43	38.54
80%	42.21	42.32
75%	46.74	46.86
70%	52.18	52.36
65%	58.70	59.03
60%	66.86	67.20
55%	76.67	77.28
50%	89.32	89.86
45%	104.90	105.79
40%	125.64	126.31
35%	152.59	153.38
30%	188.74	190.16
25%	240.78	242.22
20%	315.08	320.27
15%	443.79	448.00
10%	680.04	690.77
5%	1,296.98	1,328.08
0%	19,956.25	20,000.00

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	26.68	26.66
Median	25.02	24.99
Mode	---	---
Standard Deviation	8.99	9.00
Variance	80.83	80.97
Skewness	1.16	1.17
Kurtosis	4.99	4.99
Coefficient of Variability	0.3369	0.3376
Minimum	9.10	5.00
Maximum	74.88	75.00
Range Width	65.77	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.10	5.00
95%	15.25	15.26
90%	16.89	16.89
85%	18.14	18.13
80%	19.27	19.21
75%	20.27	20.21
70%	21.23	21.16
65%	22.17	22.10
60%	23.11	23.04
55%	24.06	24.00
50%	25.02	24.99
45%	26.08	26.03
40%	27.16	27.15
35%	28.37	28.36
30%	29.74	29.72
25%	31.24	31.26
20%	33.13	33.10
15%	35.41	35.40
10%	38.53	38.56
5%	43.85	43.82
0%	74.88	75.00

End of Assumptions

Simulation started on 11/14/2011 at 12:33 PM
Simulation stopped on 11/14/2011 at 12:39 PM