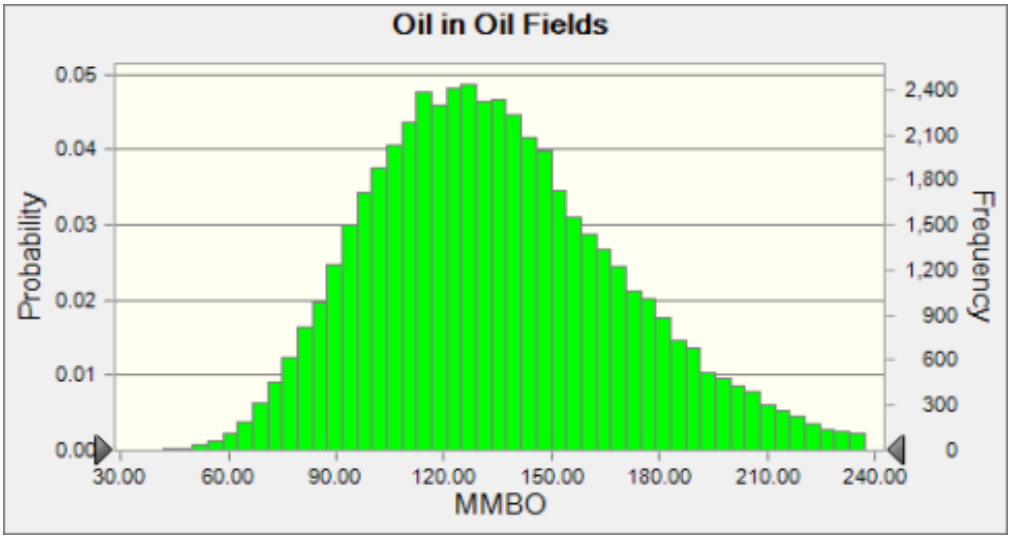
20750101
Sinjar Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 5.01 to 360.83
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.16



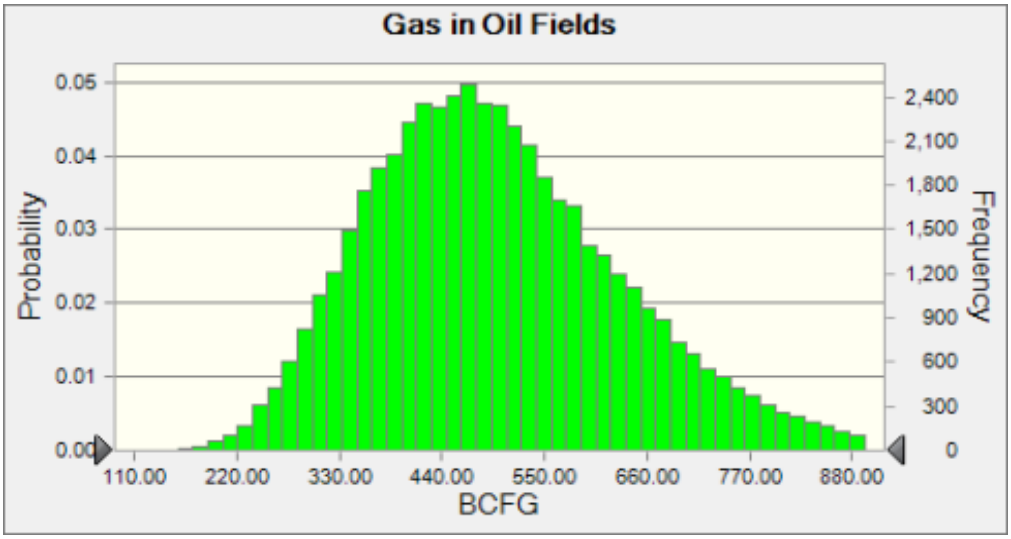
Statistics:	Forecast values
Trials	50,000
Mean	135.22
Median	131.36
Mode	---
Standard Deviation	36.36
Variance	1,321.89
Skewness	0.6402
Kurtosis	3.58
Coefficient of Variability	0.2689
Minimum	5.01
Maximum	360.83
Range Width	355.82
Mean Standard Error	0.16

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	5.01
95%	82.73
90%	92.07
85%	98.62
80%	104.19
75%	109.26
70%	113.86
65%	118.23
60%	122.60
55%	127.02
50%	131.36
45%	135.77
40%	140.41
35%	145.28
30%	150.64
25%	156.89
20%	164.13
15%	172.75
10%	183.64
5%	201.47
0%	360.83

Forecast: Gas in Oil Fields

Summary:
Entire range is from 15.23 to 1,278.85
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.63



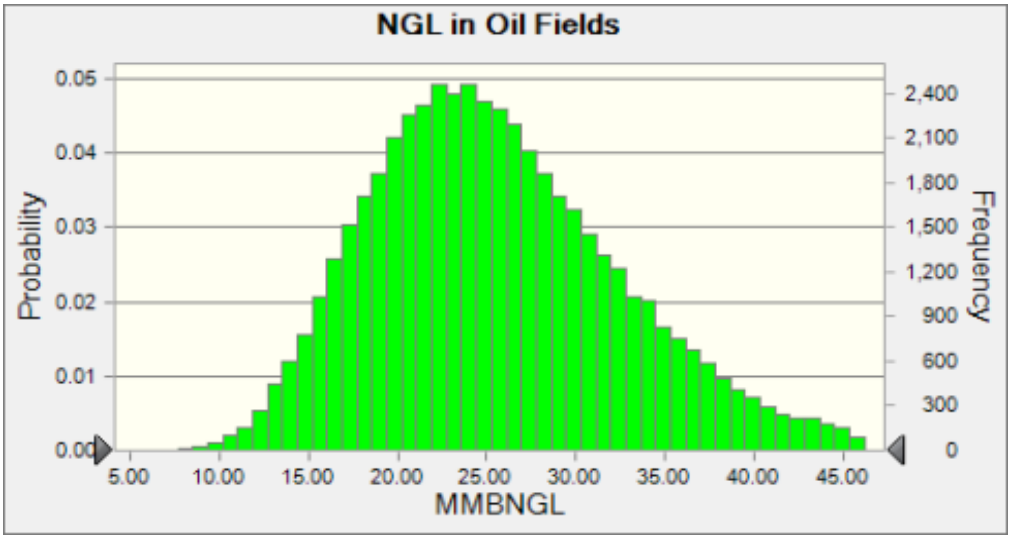
Statistics:	Forecast values
Trials	50,000
Mean	500.73
Median	484.81
Mode	---
Standard Deviation	140.13
Variance	19,635.56
Skewness	0.6634
Kurtosis	3.61
Coefficient of Variability	0.2798
Minimum	15.23
Maximum	1,278.85
Range Width	1,263.62
Mean Standard Error	0.63

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	15.23
95%	300.04
90%	335.07
85%	359.84
80%	380.75
75%	400.60
70%	418.03
65%	435.04
60%	451.96
55%	468.36
50%	484.81
45%	502.06
40%	519.66
35%	538.75
30%	559.98
25%	584.29
20%	612.30
15%	645.12
10%	688.20
5%	755.92
0%	1,278.85

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.73 to 68.56
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.03



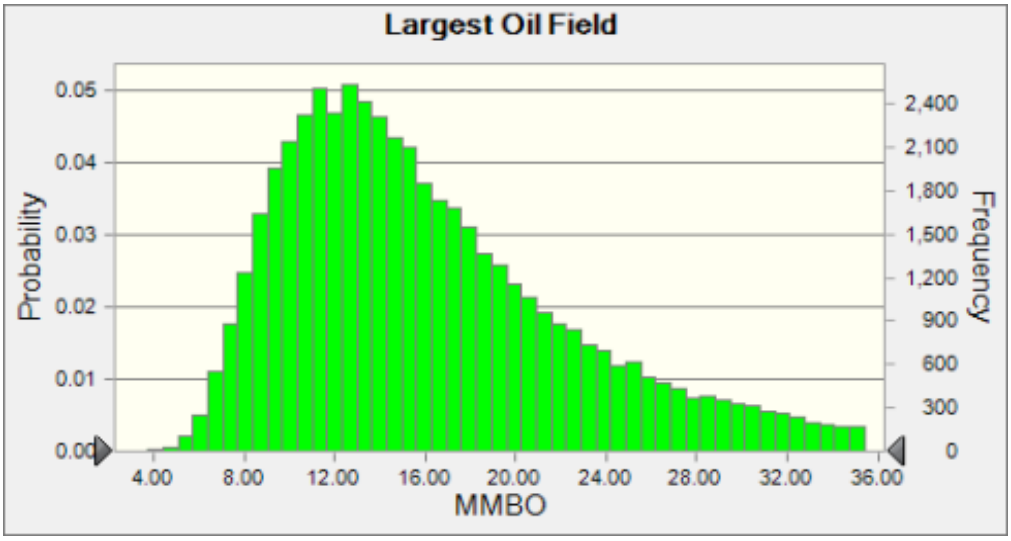
Statistics:	Forecast values
Trials	50,000
Mean	25.66
Median	24.79
Mode	---
Standard Deviation	7.32
Variance	53.62
Skewness	0.6873
Kurtosis	3.68
Coefficient of Variability	0.2854
Minimum	0.73
Maximum	68.56
Range Width	67.83
Mean Standard Error	0.03

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.73
95%	15.24
90%	17.00
85%	18.32
80%	19.43
75%	20.42
70%	21.33
65%	22.21
60%	23.07
55%	23.92
50%	24.79
45%	25.69
40%	26.64
35%	27.65
30%	28.77
25%	30.02
20%	31.45
15%	33.19
10%	35.46
5%	39.01
0%	68.56

Forecast: Largest Oil Field

Summary:
Entire range is from 3.08 to 39.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.03



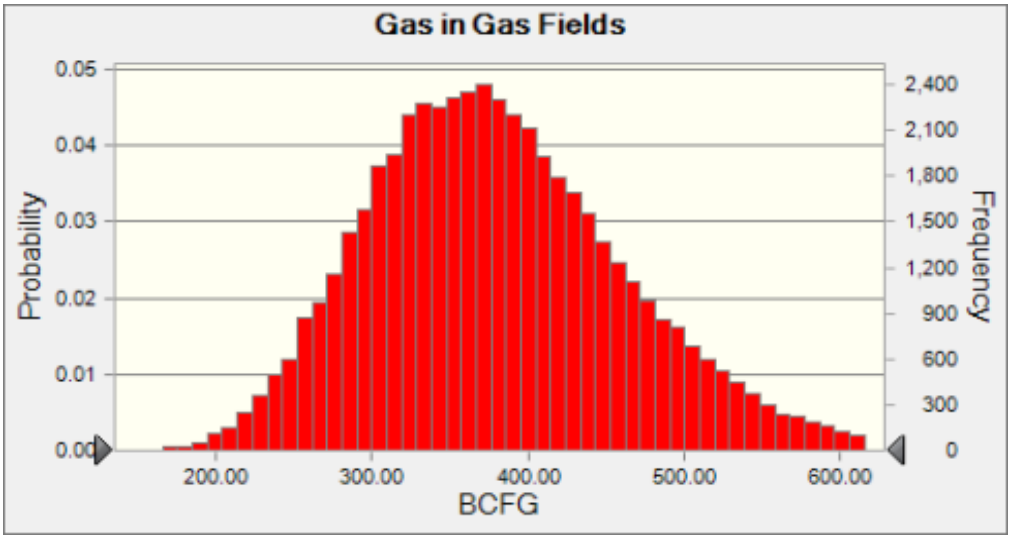
Statistics:	Forecast values
Trials	50,000
Mean	16.38
Median	14.84
Mode	---
Standard Deviation	6.79
Variance	46.10
Skewness	1.04
Kurtosis	3.77
Coefficient of Variability	0.4144
Minimum	3.08
Maximum	39.99
Range Width	36.90
Mean Standard Error	0.03

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	3.08
95%	8.08
90%	9.13
85%	9.96
80%	10.69
75%	11.35
70%	12.05
65%	12.71
60%	13.38
55%	14.09
50%	14.84
45%	15.62
40%	16.54
35%	17.49
30%	18.60
25%	19.89
20%	21.46
15%	23.44
10%	26.14
5%	30.43
0%	39.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 63.42 to 788.15
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.37



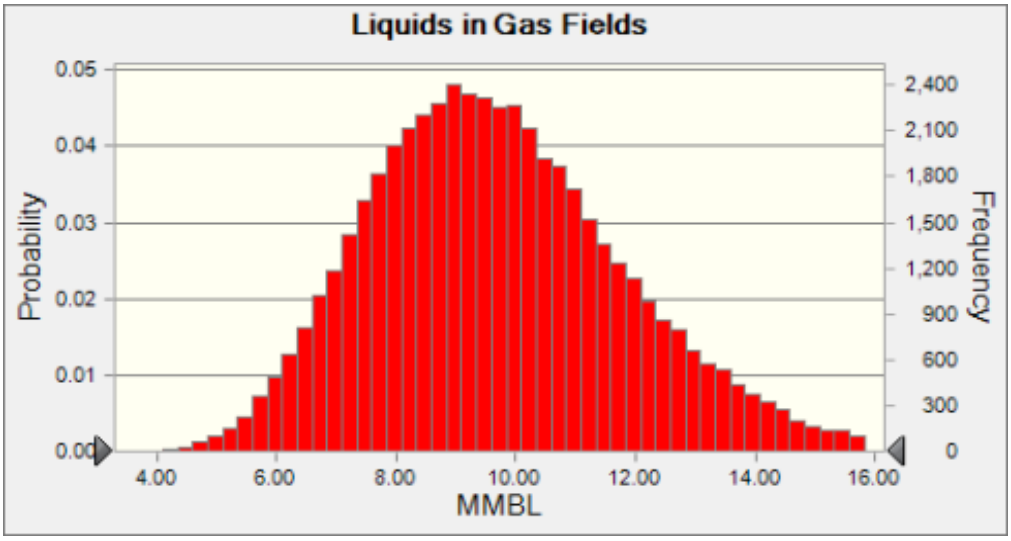
Statistics:	Forecast values
Trials	50,000
Mean	381.15
Median	373.68
Mode	---
Standard Deviation	83.61
Variance	6,990.95
Skewness	0.5226
Kurtosis	3.37
Coefficient of Variability	0.2194
Minimum	63.42
Maximum	788.15
Range Width	724.73
Mean Standard Error	0.37

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	63.42
95%	256.73
90%	280.12
85%	296.62
80%	309.82
75%	321.67
70%	332.67
65%	343.21
60%	353.56
55%	363.74
50%	373.68
45%	383.90
40%	394.73
35%	405.89
30%	418.48
25%	432.33
20%	448.24
15%	467.70
10%	493.06
5%	530.67
0%	788.15

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 1.32 to 20.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.01



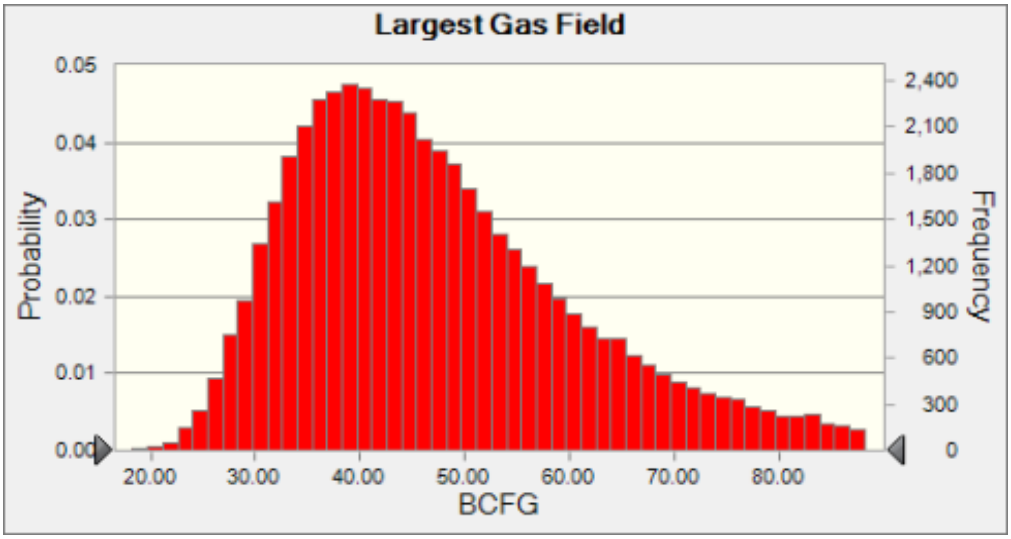
Statistics:	Forecast values
Trials	50,000
Mean	9.71
Median	9.52
Mode	---
Standard Deviation	2.18
Variance	4.76
Skewness	0.5318
Kurtosis	3.40
Coefficient of Variability	0.2246
Minimum	1.32
Maximum	20.98
Range Width	19.66
Mean Standard Error	0.01

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	1.32
95%	6.49
90%	7.07
85%	7.50
80%	7.84
75%	8.15
70%	8.45
65%	8.72
60%	8.99
55%	9.25
50%	9.52
45%	9.79
40%	10.07
35%	10.36
30%	10.68
25%	11.05
20%	11.46
15%	11.97
10%	12.62
5%	13.61
0%	20.98

Forecast: Largest Gas Field

Summary:
Entire range is from 18.29 to 99.99
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	47.77
Median	44.91
Mode	---
Standard Deviation	14.44
Variance	208.37
Skewness	0.9775
Kurtosis	3.80
Coefficient of Variability	0.3022
Minimum	18.29
Maximum	99.99
Range Width	81.71
Mean Standard Error	0.06

Forecast: Largest Gas Field (continued)

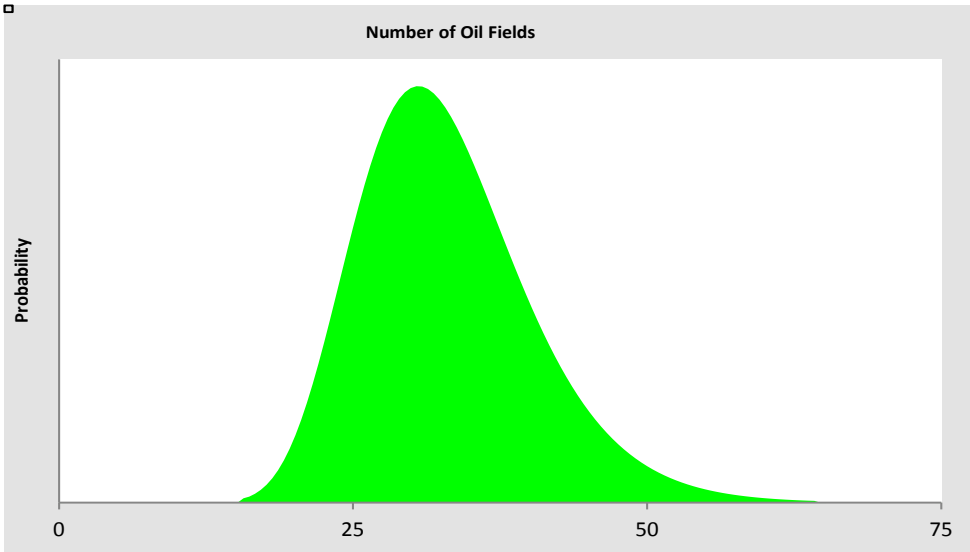
Percentiles:	BCFG
100%	18.29
95%	29.41
90%	32.01
85%	33.94
80%	35.63
75%	37.19
70%	38.71
65%	40.22
60%	41.73
55%	43.29
50%	44.91
45%	46.63
40%	48.46
35%	50.41
30%	52.69
25%	55.37
20%	58.49
15%	62.58
10%	67.97
5%	76.84
0%	99.99

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	31.83	32.83
Standard Deviation	7.40	7.4
Selected range is from -Infinity to 63.00		1.00 to 64.00



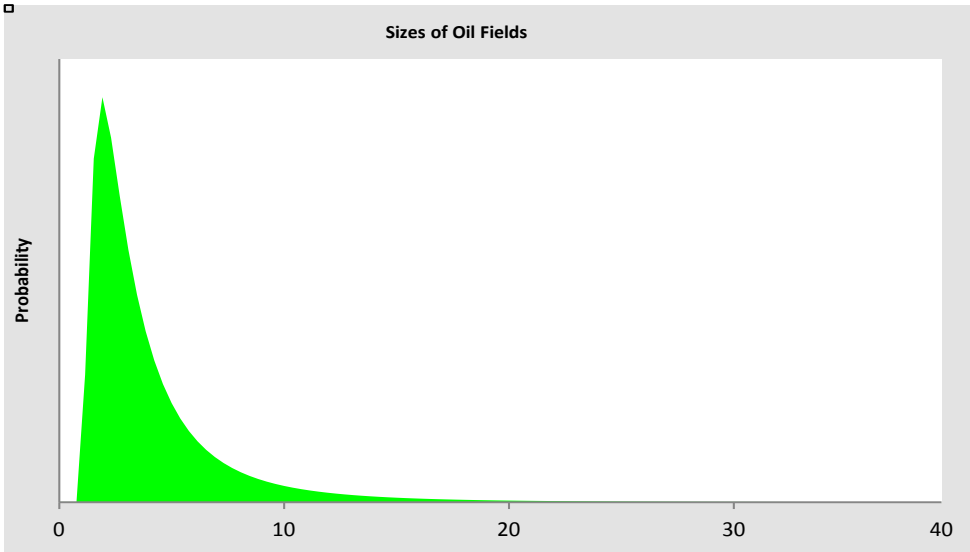
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	32.81	32.79
Median	31.99	31.99
Mode	---	---
Standard Deviation	7.33	7.32
Variance	53.66	53.56
Skewness	0.6312	0.6309
Kurtosis	3.49	3.50
Coefficient of Variability	0.2233	0.2232
Minimum	12.71	1.00
Maximum	63.96	64.00
Range Width	51.25	63.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.71	1.00
95%	22.31	22.25
90%	24.12	24.10
85%	25.45	25.43
80%	26.57	26.55
75%	27.55	27.55
70%	28.49	28.48
65%	29.40	29.37
60%	30.24	30.24
55%	31.10	31.11
50%	31.99	31.99
45%	32.88	32.90
40%	33.83	33.84
35%	34.85	34.85
30%	35.94	35.95
25%	37.19	37.17
20%	38.63	38.58
15%	40.33	40.29
10%	42.65	42.55
5%	46.20	46.12
0%	63.96	64.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	3.17	4.17
Standard Deviation	3.91	3.91
Selected range is from -Infinity to 39.00		1.00 to 40.00



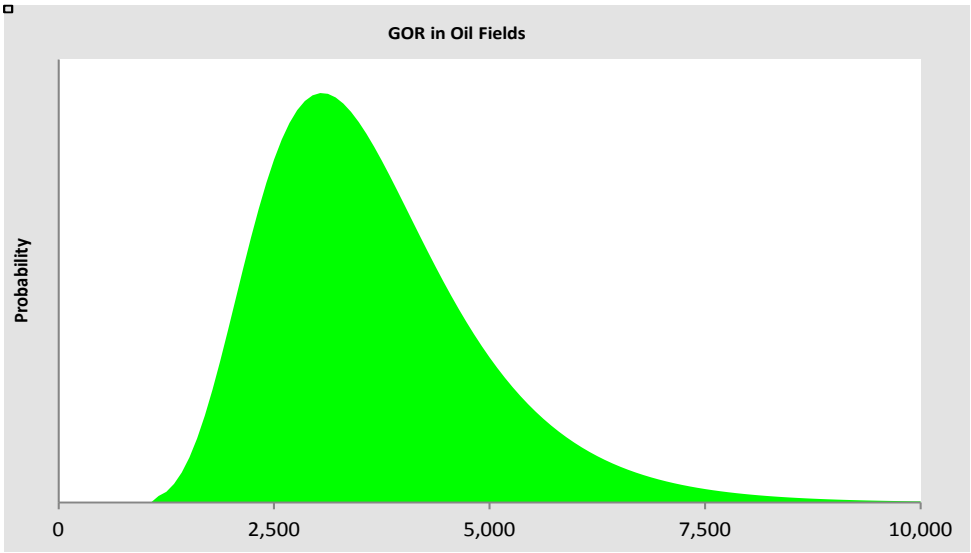
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.12	4.12
Median	3.00	3.00
Mode	---	---
Standard Deviation	3.51	3.54
Variance	12.29	12.57
Skewness	3.33	3.36
Kurtosis	19.79	19.95
Coefficient of Variability	0.85	0.86
Minimum	1.05	1.00
Maximum	39.91	40.00
Range Width	38.86	39.00
Mean Standard Error	0.02	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.05	1.00
95%	1.41	1.41
90%	1.59	1.58
85%	1.74	1.74
80%	1.90	1.89
75%	2.05	2.04
70%	2.21	2.21
65%	2.38	2.38
60%	2.57	2.57
55%	2.77	2.77
50%	3.00	3.00
45%	3.27	3.25
40%	3.58	3.55
35%	3.91	3.89
30%	4.33	4.30
25%	4.85	4.82
20%	5.49	5.48
15%	6.41	6.40
10%	7.84	7.82
5%	10.55	10.64
0%	39.91	40.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	200
Mean	3,511.22	3,711.22
Standard Deviation	1,276.21	1,276.21
Selected range is from -Infinity to 9,800.00		200.00 to 10,000.00



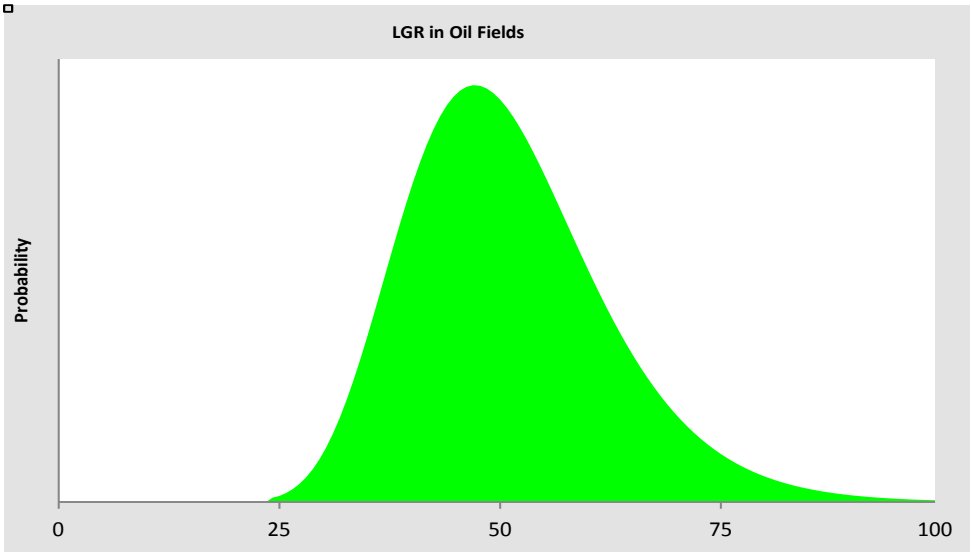
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,698.91	3,703.86
Median	3,496.89	3,498.54
Mode	---	---
Standard Deviation	1,244.92	1,255.09
Variance	1,549,827.08	1,575,251.44
Skewness	0.9742	1.00
Kurtosis	4.33	4.43
Coefficient of Variability	0.3366	0.3389
Minimum	901.61	200.00
Maximum	9,993.20	10,000.00
Range Width	9,091.58	9,800.00
Mean Standard Error	5.57	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	901.61	200.00
95%	2,054.32	2,048.45
90%	2,301.54	2,300.74
85%	2,491.09	2,490.13
80%	2,650.64	2,652.74
75%	2,799.55	2,801.41
70%	2,941.19	2,942.57
65%	3,076.57	3,080.20
60%	3,217.50	3,217.16
55%	3,355.82	3,355.85
50%	3,496.88	3,498.54
45%	3,646.72	3,647.66
40%	3,804.37	3,806.07
35%	3,972.85	3,977.39
30%	4,159.24	4,166.70
25%	4,375.71	4,381.55
20%	4,633.99	4,634.34
15%	4,946.15	4,948.01
10%	5,366.74	5,373.50
5%	6,043.41	6,071.46
0%	9,993.20	10,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	2
Mean	49.30	51.3
Standard Deviation	11.54	11.54
Selected range is from -Infinity to 98.00		2.00 to 100.00



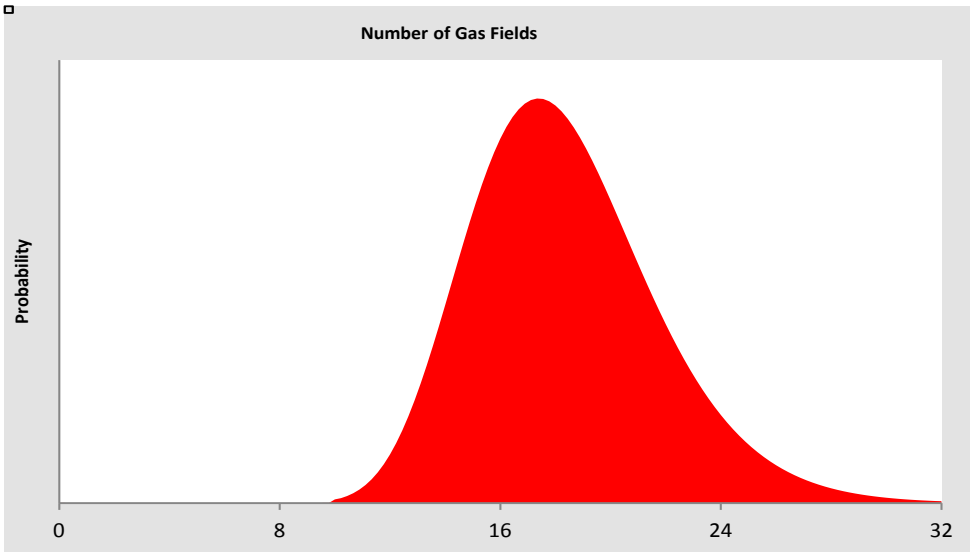
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	51.23	51.24
Median	50.03	49.99
Mode	---	---
Standard Deviation	11.39	11.41
Variance	129.83	130.22
Skewness	0.6223	0.6353
Kurtosis	3.49	3.51
Coefficient of Variability	0.2224	0.2227
Minimum	21.15	2.00
Maximum	99.96	100.00
Range Width	78.80	98.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	21.15	2.00
95%	34.82	34.82
90%	37.62	37.70
85%	39.74	39.77
80%	41.45	41.51
75%	43.00	43.07
70%	44.44	44.52
65%	45.88	45.90
60%	47.28	47.26
55%	48.67	48.61
50%	50.03	49.99
45%	51.44	51.40
40%	52.93	52.87
35%	54.47	54.45
30%	56.23	56.16
25%	58.09	58.06
20%	60.26	60.26
15%	62.89	62.93
10%	66.41	66.46
5%	71.92	72.04
0%	99.96	100.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	17.32	18.32
Standard Deviation	3.40	3.4
Selected range is from -Infinity to 31.00		1.00 to 32.00



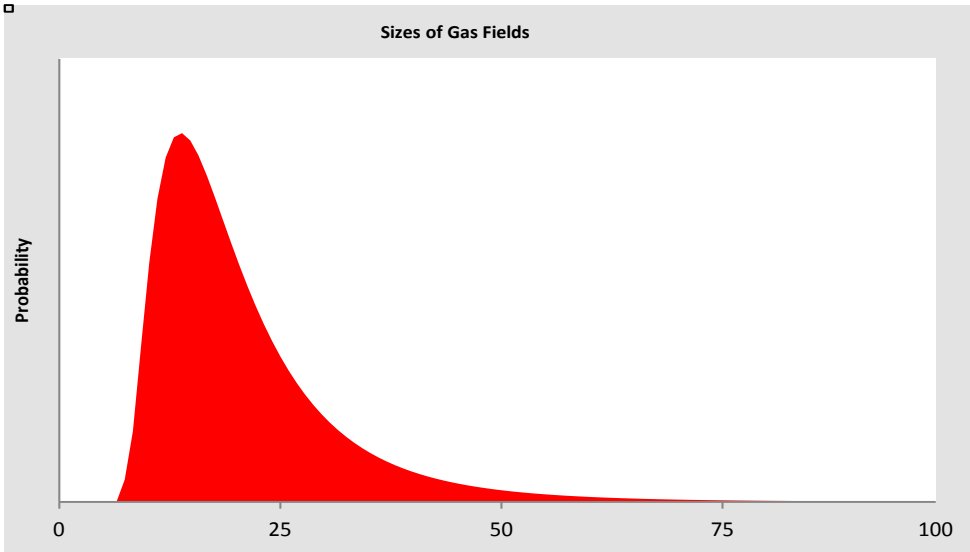
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	18.28	18.31
Median	17.98	18.00
Mode	---	---
Standard Deviation	3.36	3.37
Variance	11.30	11.33
Skewness	0.5246	0.5285
Kurtosis	3.34	3.32
Coefficient of Variability	0.1839	0.1839
Minimum	8.79	1.00
Maximum	31.99	32.00
Range Width	23.20	31.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.79	1.00
95%	13.32	13.35
90%	14.21	14.25
85%	14.85	14.90
80%	15.40	15.43
75%	15.89	15.91
70%	16.32	16.35
65%	16.76	16.77
60%	17.18	17.18
55%	17.57	17.59
50%	17.98	18.00
45%	18.39	18.42
40%	18.82	18.85
35%	19.28	19.32
30%	19.78	19.82
25%	20.32	20.37
20%	20.97	21.01
15%	21.73	21.78
10%	22.72	22.79
5%	24.31	24.36
0%	31.99	32.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	14.98	20.98
Standard Deviation	11.20	11.2
Selected range is from -Infinity to 94.00		6.00 to 100.00



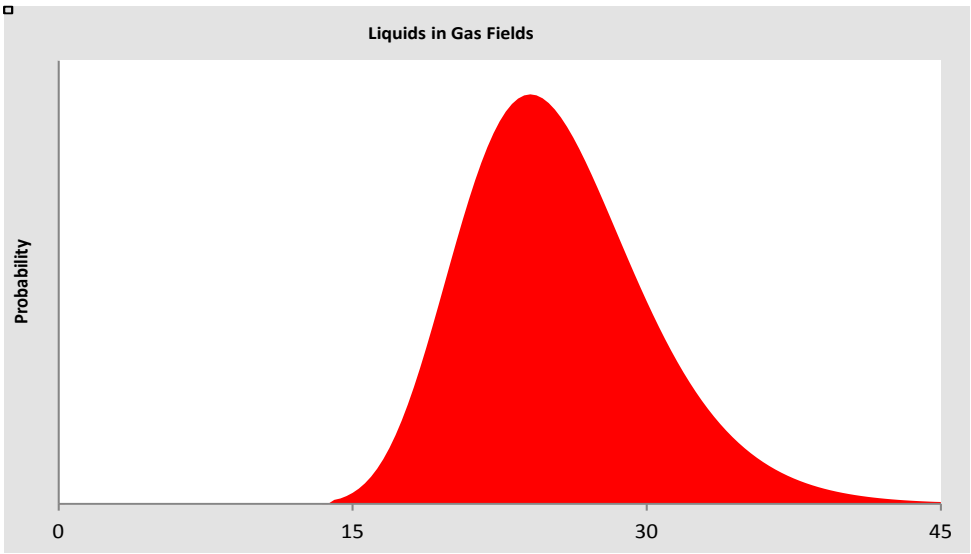
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	20.80	20.88
Median	17.94	17.99
Mode	---	---
Standard Deviation	10.64	10.72
Variance	113.19	114.91
Skewness	2.08	2.08
Kurtosis	9.46	9.54
Coefficient of Variability	0.5116	0.5134
Minimum	6.74	6.00
Maximum	99.27	100.00
Range Width	92.53	94.00
Mean Standard Error	0.05	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.74	6.00
95%	10.02	10.01
90%	11.09	11.11
85%	12.00	12.01
80%	12.83	12.85
75%	13.63	13.65
70%	14.45	14.46
65%	15.28	15.28
60%	16.10	16.13
55%	16.99	17.03
50%	17.94	17.99
45%	18.97	19.04
40%	20.10	20.19
35%	21.37	21.49
30%	22.89	22.99
25%	24.65	24.78
20%	26.80	26.98
15%	29.75	29.88
10%	33.75	34.08
5%	41.35	41.68
0%	99.27	100.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	3
Mean	22.49	25.49
Standard Deviation	4.76	4.76
Selected range is from -Infinity to 42.00		3.00 to 45.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	25.49	25.46
Median	25.01	24.99
Mode	---	---
Standard Deviation	4.70	4.71
Variance	22.13	22.16
Skewness	0.5401	0.5717
Kurtosis	3.31	3.39
Coefficient of Variability	0.1846	0.1849
Minimum	12.38	3.00
Maximum	44.97	45.00
Range Width	32.59	42.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.38	3.00
95%	18.58	18.59
90%	19.82	19.82
85%	20.72	20.71
80%	21.47	21.44
75%	22.12	22.10
70%	22.76	22.71
65%	23.33	23.29
60%	23.91	23.86
55%	24.45	24.42
50%	25.01	24.99
45%	25.61	25.58
40%	26.22	26.19
35%	26.88	26.84
30%	27.58	27.54
25%	28.37	28.32
20%	29.28	29.22
15%	30.40	30.31
10%	31.79	31.74
5%	33.92	33.98
0%	44.97	45.00

End of Assumptions

Simulation started on 1/30/2012 at 10:24 AM
Simulation stopped on 1/30/2012 at 10:34 AM