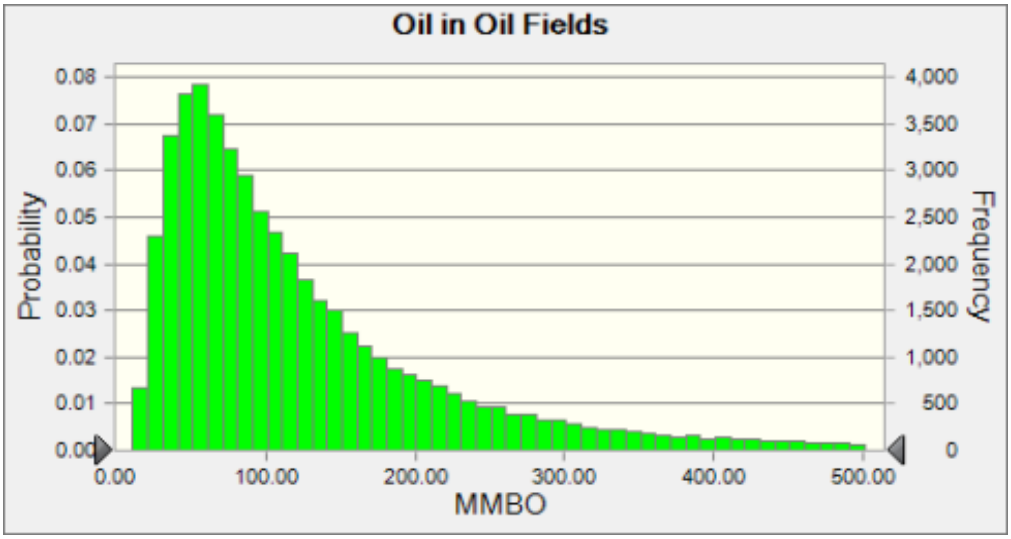
38010103
Lengguru Fold Belt
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 10.40 to 1,717.70
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.58



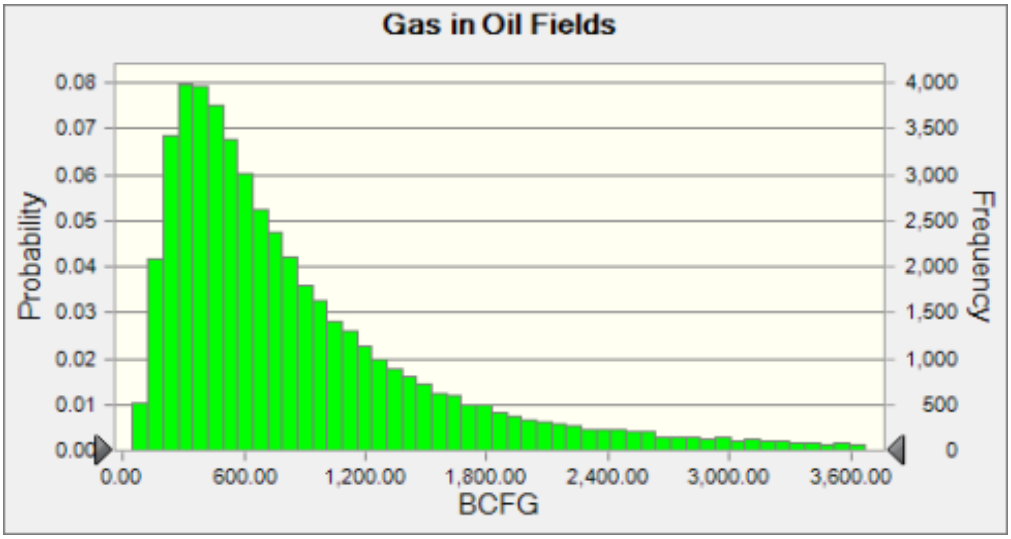
Statistics:	Forecast values
Trials	50,000
Mean	135.73
Median	94.87
Mode	---
Standard Deviation	130.55
Variance	17,044.12
Skewness	2.94
Kurtosis	15.60
Coefficient of Variability	0.9619
Minimum	10.40
Maximum	1,717.70
Range Width	1,707.31
Mean Standard Error	0.58

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	10.40
95%	28.81
90%	36.64
85%	43.54
80%	50.09
75%	56.46
70%	63.10
65%	69.97
60%	77.62
55%	85.85
50%	94.87
45%	105.04
40%	116.32
35%	129.58
30%	145.08
25%	164.79
20%	190.53
15%	224.40
10%	278.43
5%	384.80
0%	1,717.70

Forecast: Gas in Oil Fields

Summary:
Entire range is from 51.08 to 13,525.27
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.32



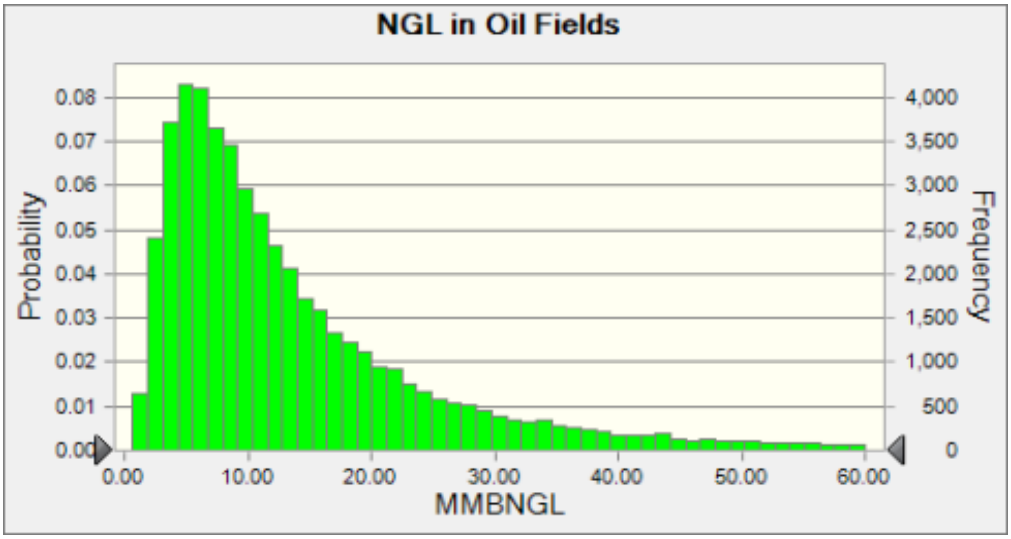
Statistics:	Forecast values
Trials	50,000
Mean	963.44
Median	663.80
Mode	---
Standard Deviation	964.97
Variance	931,172.27
Skewness	3.25
Kurtosis	19.16
Coefficient of Variability	1.00
Minimum	51.08
Maximum	13,525.27
Range Width	13,474.19
Mean Standard Error	4.32

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	51.08
95%	196.01
90%	251.99
85%	299.72
80%	345.60
75%	391.39
70%	439.52
65%	488.84
60%	542.03
55%	599.73
50%	663.79
45%	737.15
40%	816.77
35%	912.27
30%	1,025.79
25%	1,162.95
20%	1,342.03
15%	1,590.09
10%	1,980.34
5%	2,752.92
0%	13,525.27

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.68 to 370.44
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.07



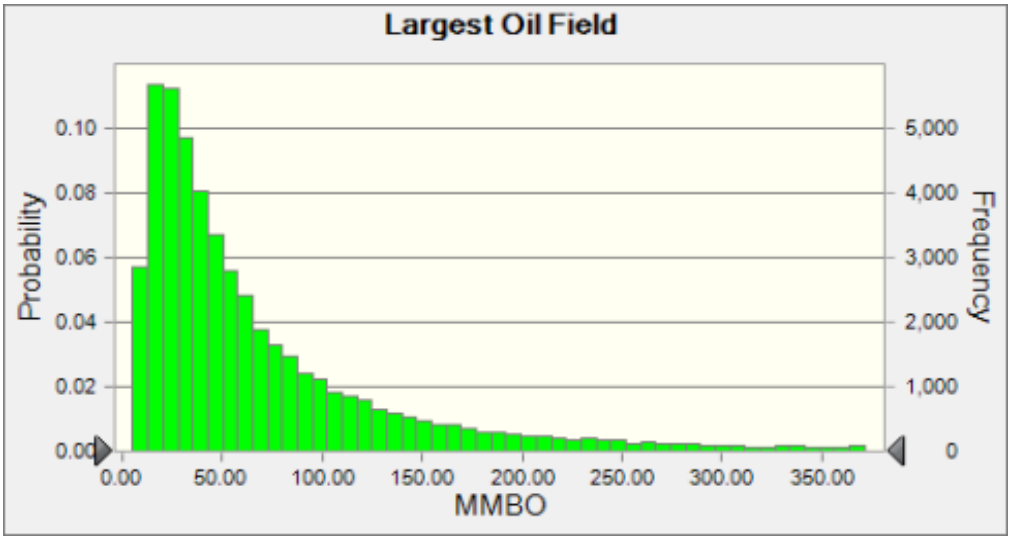
Statistics:	Forecast values
Trials	50,000
Mean	15.17
Median	10.32
Mode	---
Standard Deviation	15.98
Variance	255.42
Skewness	3.87
Kurtosis	30.72
Coefficient of Variability	1.05
Minimum	0.68
Maximum	370.44
Range Width	369.75
Mean Standard Error	0.07

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.68
95%	2.89
90%	3.77
85%	4.53
80%	5.26
75%	5.97
70%	6.73
65%	7.56
60%	8.39
55%	9.29
50%	10.32
45%	11.43
40%	12.73
35%	14.22
30%	16.00
25%	18.28
20%	21.14
15%	25.00
10%	31.30
5%	43.60
0%	370.44

Forecast: Largest Oil Field

Summary:
Entire range is from 5.23 to 999.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.46



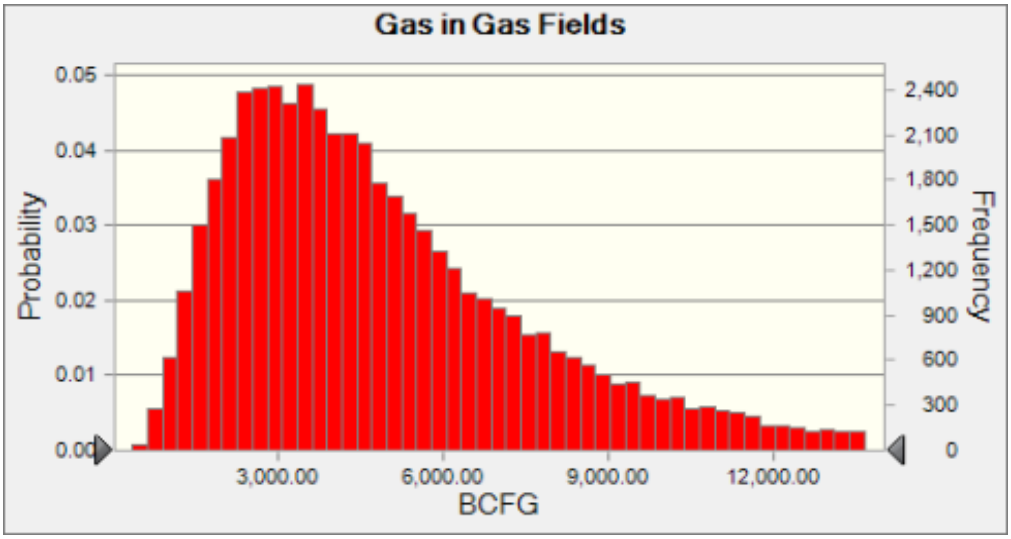
Statistics:	Forecast values
Trials	50,000
Mean	81.15
Median	46.76
Mode	---
Standard Deviation	103.56
Variance	10,724.59
Skewness	3.68
Kurtosis	21.44
Coefficient of Variability	1.28
Minimum	5.23
Maximum	999.00
Range Width	993.77
Mean Standard Error	0.46

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	5.23
95%	12.18
90%	15.75
85%	18.84
80%	22.00
75%	25.33
70%	28.88
65%	32.62
60%	36.81
55%	41.42
50%	46.75
45%	52.97
40%	59.82
35%	68.30
30%	79.02
25%	92.66
20%	110.63
15%	136.16
10%	178.32
5%	268.15
0%	999.00

Forecast: Gas in Gas Fields

Summary:
Entire range is from 352.48 to 31,732.59
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 13.73



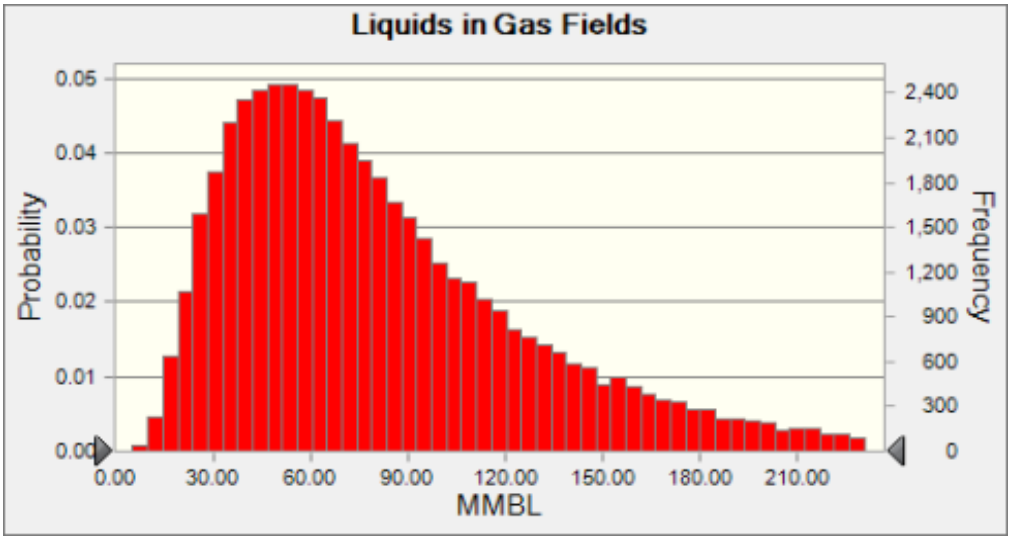
Statistics:	Forecast values
Trials	50,000
Mean	5,037.26
Median	4,307.34
Mode	---
Standard Deviation	3,069.56
Variance	9,422,188.13
Skewness	1.47
Kurtosis	6.15
Coefficient of Variability	0.6094
Minimum	352.48
Maximum	31,732.59
Range Width	31,380.10
Mean Standard Error	13.73

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	352.48
95%	1,532.22
90%	1,932.29
85%	2,261.94
80%	2,545.21
75%	2,823.88
70%	3,105.13
65%	3,393.57
60%	3,678.64
55%	3,987.29
50%	4,307.32
45%	4,635.27
40%	5,003.82
35%	5,424.81
30%	5,889.70
25%	6,450.12
20%	7,138.95
15%	7,976.47
10%	9,160.32
5%	11,130.64
0%	31,732.59

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 4.96 to 533.55
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.23



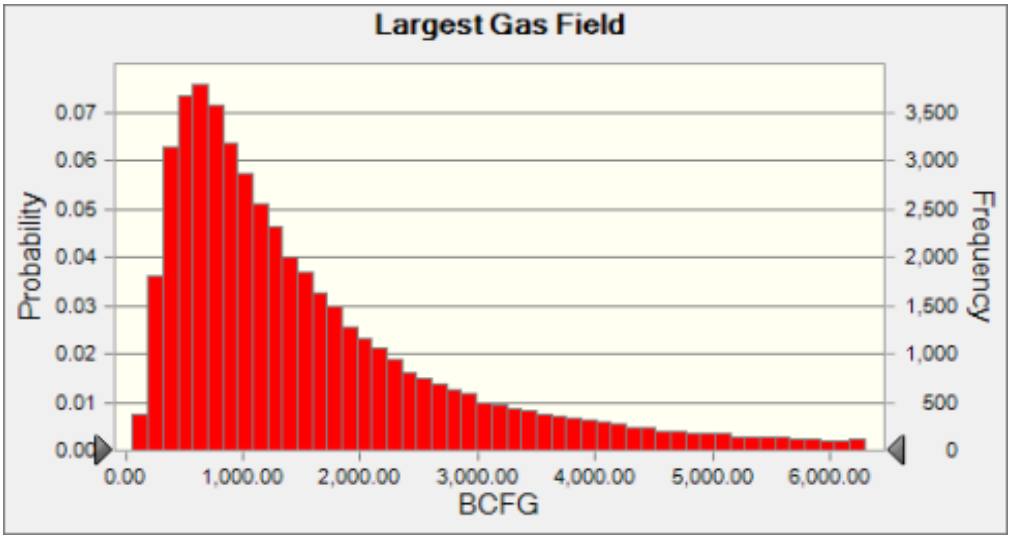
Statistics:	Forecast values
Trials	50,000
Mean	83.73
Median	70.80
Mode	---
Standard Deviation	52.40
Variance	2,745.42
Skewness	1.59
Kurtosis	6.80
Coefficient of Variability	0.6258
Minimum	4.96
Maximum	533.55
Range Width	528.60
Mean Standard Error	0.23

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	4.96
95%	24.89
90%	31.55
85%	36.93
80%	41.78
75%	46.55
70%	51.21
65%	55.92
60%	60.70
55%	65.55
50%	70.80
45%	76.57
40%	82.77
35%	89.62
30%	97.61
25%	107.21
20%	118.22
15%	132.98
10%	153.24
5%	186.17
0%	533.55

Forecast: Largest Gas Field

Summary:
Entire range is from 61.21 to 9,995.30
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.25



Statistics:	Forecast values
Trials	50,000
Mean	1,750.02
Median	1,205.51
Mode	---
Standard Deviation	1,621.98
Variance	2,630,813.83
Skewness	2.11
Kurtosis	8.07
Coefficient of Variability	0.9268
Minimum	61.21
Maximum	9,995.30
Range Width	9,934.08
Mean Standard Error	7.25

Forecast: Largest Gas Field (continued)

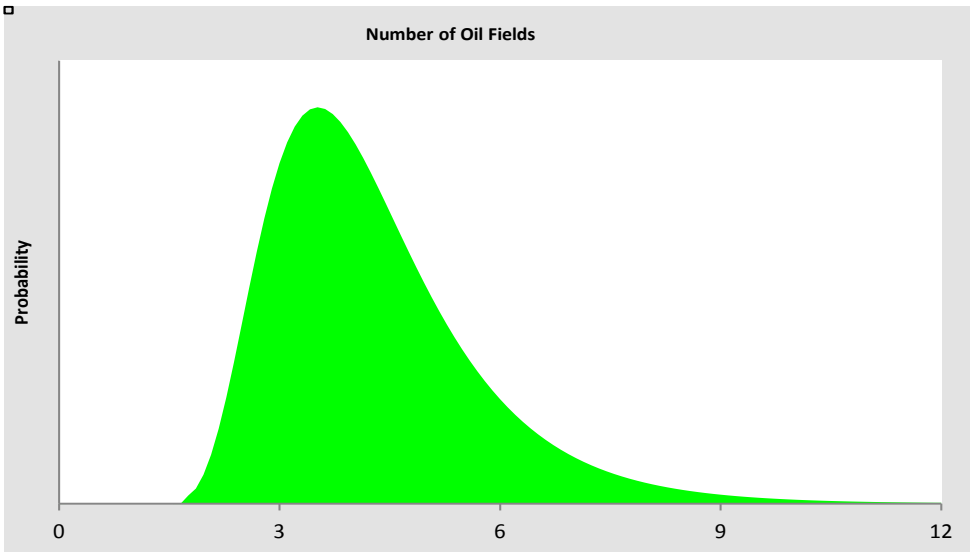
Percentiles:	BCFG
100%	61.21
95%	332.68
90%	429.92
85%	520.57
80%	602.40
75%	686.66
70%	773.12
65%	865.43
60%	969.42
55%	1,081.17
50%	1,205.48
45%	1,343.22
40%	1,502.52
35%	1,686.47
30%	1,903.73
25%	2,181.68
20%	2,549.20
15%	3,054.26
10%	3,832.77
5%	5,237.80
0%	9,995.30

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	3.28	4.28
Standard Deviation	1.44	1.44
Selected range is from -Infinity to 11.00		1.00 to 12.00



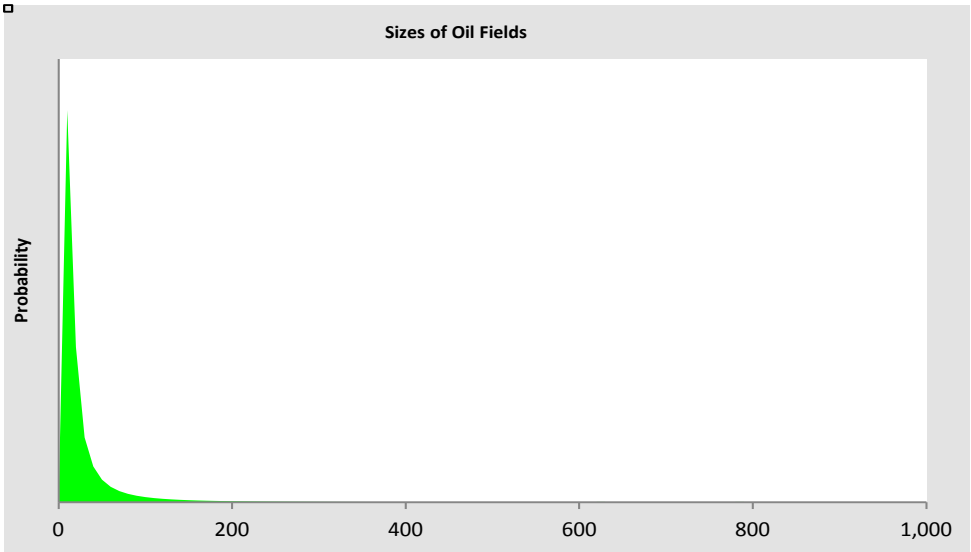
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.27	4.27
Median	4.00	4.00
Mode	---	---
Standard Deviation	1.41	1.41
Variance	1.99	1.99
Skewness	1.22	1.22
Kurtosis	5.23	5.16
Coefficient of Variability	0.3304	0.3308
Minimum	1.56	1.00
Maximum	11.97	12.00
Range Width	10.42	11.00
Mean Standard Error	0.01	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.56	1.00
95%	2.51	2.50
90%	2.75	2.75
85%	2.94	2.94
80%	3.11	3.11
75%	3.26	3.26
70%	3.41	3.41
65%	3.55	3.55
60%	3.70	3.70
55%	3.85	3.84
50%	4.00	4.00
45%	4.16	4.16
40%	4.33	4.34
35%	4.52	4.53
30%	4.74	4.74
25%	4.98	4.98
20%	5.27	5.27
15%	5.63	5.63
10%	6.13	6.13
5%	6.97	6.97
0%	11.97	12.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	28.69	33.69
Standard Deviation	86.87	86.87
Selected range is from -Infinity to 995.00		5.00 to 1,000.00



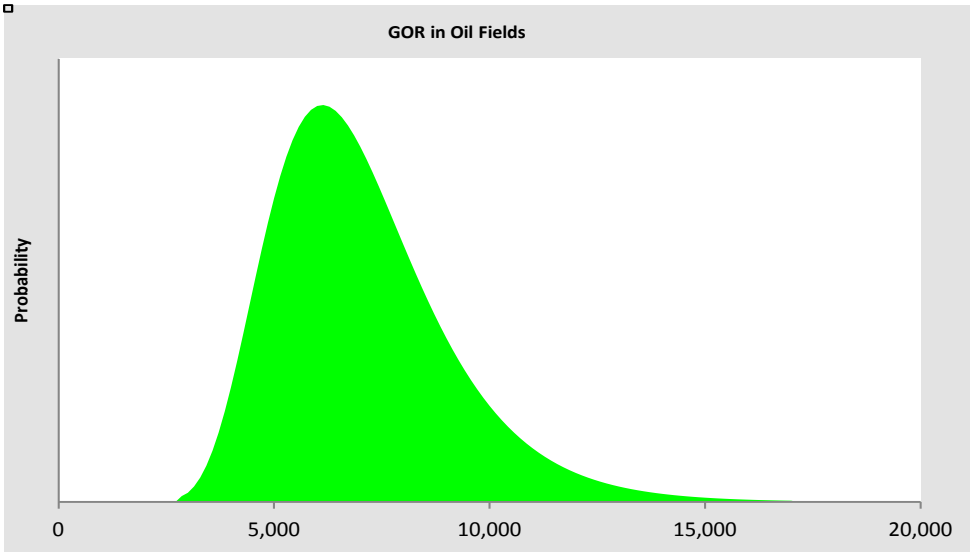
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	32.04	32.10
Median	13.95	13.98
Mode	---	---
Standard Deviation	60.48	60.03
Variance	3,658.43	3,603.68
Skewness	6.64	6.55
Kurtosis	65.37	64.35
Coefficient of Variability	1.89	1.87
Minimum	5.02	5.00
Maximum	980.92	1,000.00
Range Width	975.90	995.00
Mean Standard Error	0.27	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.02	5.00
95%	5.73	5.73
90%	6.27	6.28
85%	6.86	6.86
80%	7.50	7.50
75%	8.20	8.22
70%	9.05	9.04
65%	10.04	10.00
60%	11.14	11.11
55%	12.39	12.42
50%	13.95	13.98
45%	15.90	15.88
40%	18.24	18.21
35%	21.24	21.14
30%	24.89	24.94
25%	29.95	30.05
20%	37.38	37.28
15%	48.32	48.38
10%	67.71	67.87
5%	113.17	113.65
0%	980.92	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1,000.00
Mean	6,121.32	7,121.32
Standard Deviation	2,065.63	2,065.63
Selected range is from -Infinity to 16,000.00		1000.00 to 17,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	7,107.03	7,109.83
Median	6,797.12	6,797.61
Mode	---	---
Standard Deviation	2,028.78	2,033.92
Variance	4,115,962.21	4,136,820.46
Skewness	0.9263	0.9271
Kurtosis	4.23	4.21
Coefficient of Variability	0.2855	0.2861
Minimum	2,577.52	1,000.00
Maximum	16,961.51	17,000.00
Range Width	14,383.99	16,000.00
Mean Standard Error	9.07	---

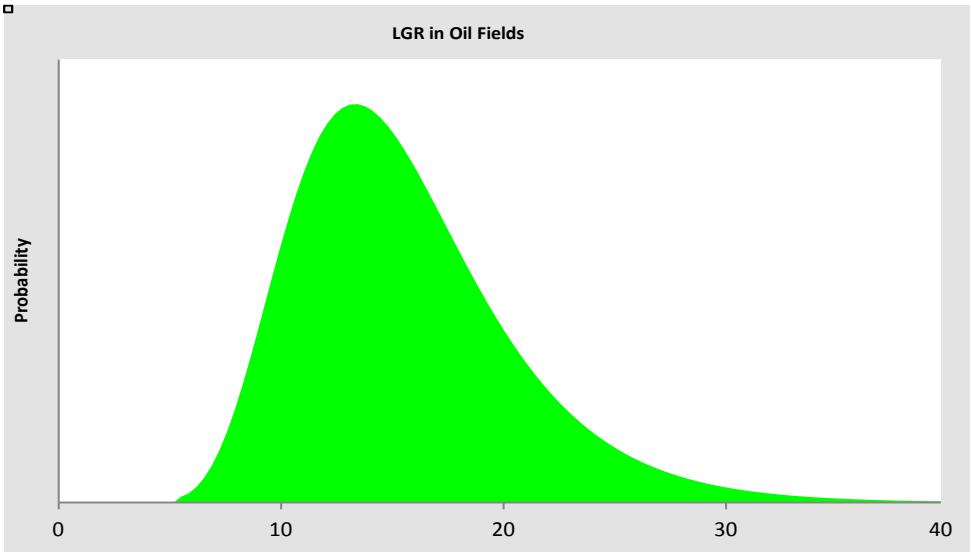
Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2,577.52	1,000.00
95%	4,376.94	4,378.87
90%	4,796.54	4,806.92
85%	5,124.37	5,125.92
80%	5,399.37	5,398.40
75%	5,648.56	5,646.44
70%	5,885.11	5,881.07
65%	6,110.72	6,109.04
60%	6,329.25	6,335.17
55%	6,558.48	6,563.45
50%	6,796.99	6,797.61
45%	7,046.98	7,041.59
40%	7,300.46	7,299.97
35%	7,574.33	7,578.57
30%	7,891.79	7,885.42
25%	8,241.55	8,232.46
20%	8,633.75	8,639.27
15%	9,127.87	9,141.86
10%	9,799.70	9,820.06
5%	10,898.22	10,924.53
0%	16,961.51	17,000.00

38010103
Lengguru Fold Belt
Monte Carlo Results

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	14.79	15.79
Standard Deviation	5.04	5.04
Selected range is from -Infinity to 39.00		1.00 to 40.00



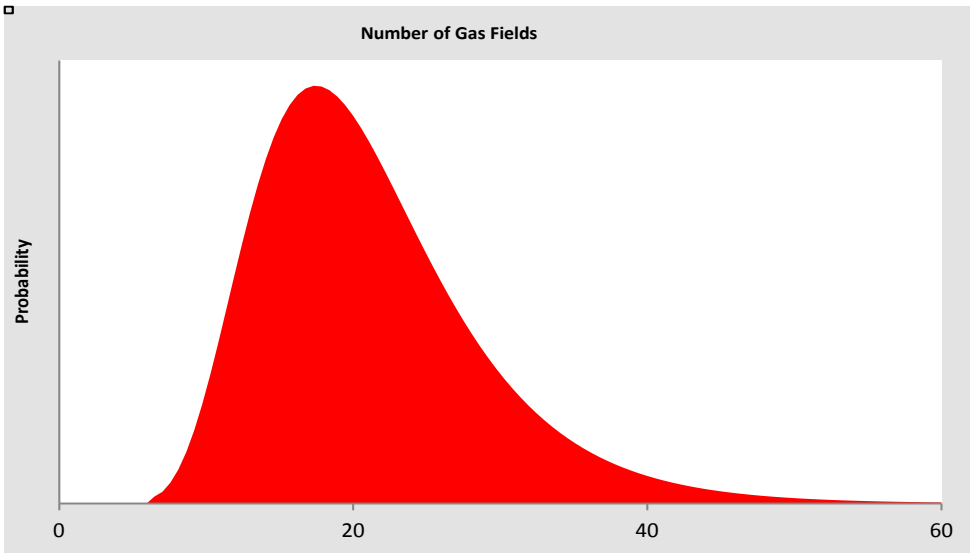
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.76	15.76
Median	14.99	14.99
Mode	---	---
Standard Deviation	4.94	4.96
Variance	24.43	24.64
Skewness	0.9224	0.9368
Kurtosis	4.18	4.24
Coefficient of Variability	0.3136	0.3149
Minimum	4.38	1.00
Maximum	39.94	40.00
Range Width	35.56	39.00
Mean Standard Error	0.02	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.38	1.00
95%	9.14	9.11
90%	10.16	10.15
85%	10.93	10.93
80%	11.59	11.59
75%	12.18	12.19
70%	12.77	12.76
65%	13.31	13.32
60%	13.83	13.87
55%	14.41	14.42
50%	14.99	14.99
45%	15.60	15.59
40%	16.24	16.22
35%	16.92	16.90
30%	17.67	17.65
25%	18.51	18.49
20%	19.48	19.49
15%	20.72	20.72
10%	22.38	22.38
5%	25.03	25.08
0%	39.94	40.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	20.32	21.32
Standard Deviation	7.71	7.71
Selected range is from -Infinity to 59.00		1.00 to 60.00



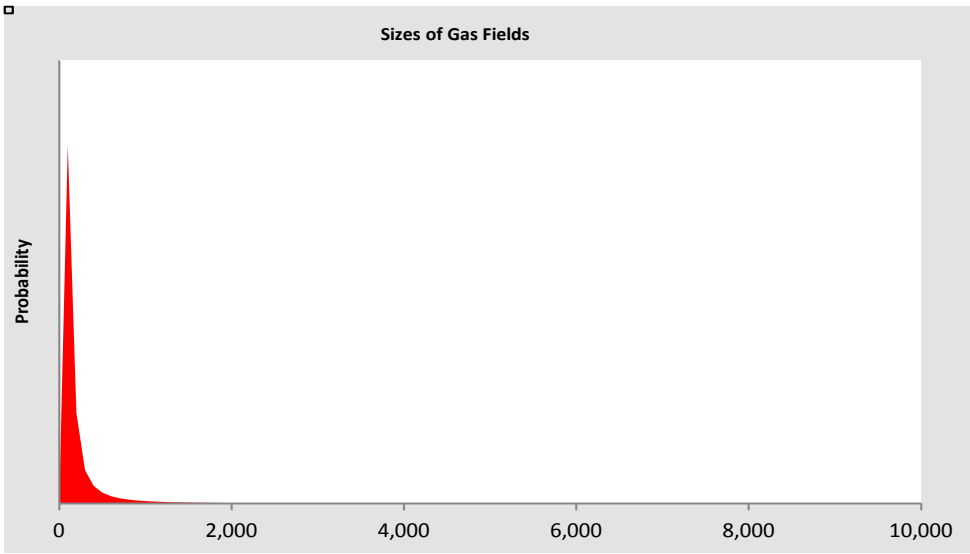
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.23	21.28
Median	19.97	19.99
Mode	---	---
Standard Deviation	7.54	7.58
Variance	56.86	57.40
Skewness	1.02	1.05
Kurtosis	4.50	4.57
Coefficient of Variability	0.3551	0.3561
Minimum	4.72	1.00
Maximum	59.89	60.00
Range Width	55.18	59.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.72	1.00
95%	11.34	11.39
90%	12.81	12.87
85%	13.95	13.99
80%	14.91	14.95
75%	15.83	15.83
70%	16.66	16.67
65%	17.47	17.49
60%	18.29	18.31
55%	19.13	19.14
50%	19.97	19.99
45%	20.85	20.89
40%	21.81	21.84
35%	22.85	22.87
30%	23.97	24.01
25%	25.28	25.31
20%	26.82	26.84
15%	28.75	28.75
10%	31.32	31.34
5%	35.45	35.61
0%	59.89	60.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	224.75	254.75
Standard Deviation	908.01	908.01
Selected range is from -Infinity to 9,970.00		30.00 to 10,000.00



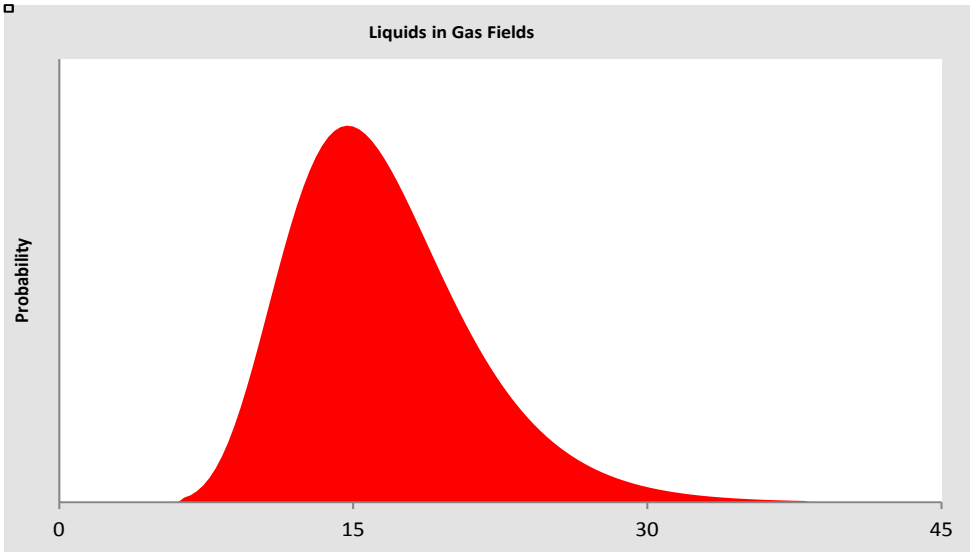
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	235.01	238.48
Median	83.19	83.89
Mode	---	---
Standard Deviation	541.34	543.55
Variance	293,044.03	295,445.31
Skewness	7.66	7.64
Kurtosis	85.17	84.98
Coefficient of Variability	2.30	2.28
Minimum	30.05	30.00
Maximum	9,928.20	10,000.00
Range Width	9,898.15	9,970.00
Mean Standard Error	2.42	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.05	30.00
95%	33.27	33.35
90%	36.09	36.20
85%	39.25	39.37
80%	42.82	43.02
75%	47.08	47.26
70%	52.15	52.24
65%	58.06	58.13
60%	64.83	65.14
55%	73.25	73.59
50%	83.18	83.89
45%	95.93	96.61
40%	111.53	112.62
35%	131.35	133.21
30%	159.17	160.48
25%	196.27	198.02
20%	252.06	252.62
15%	334.55	338.94
10%	490.16	496.20
5%	876.78	885.20
0%	9,928.20	10,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.3
Mean	16.34	16.64
Standard Deviation	4.73	4.73
Selected range is from -Infinity to 37.70		0.30 to 38.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	16.60	16.62
Median	16.00	15.99
Mode	---	---
Standard Deviation	4.63	4.67
Variance	21.45	21.76
Skewness	0.7822	0.7911
Kurtosis	3.85	3.85
Coefficient of Variability	0.2790	0.2807
Minimum	5.27	0.30
Maximum	37.89	38.00
Range Width	32.62	37.70
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.27	0.30
95%	10.17	10.15
90%	11.22	11.22
85%	11.99	12.00
80%	12.67	12.66
75%	13.27	13.26
70%	13.83	13.83
65%	14.36	14.37
60%	14.91	14.91
55%	15.44	15.45
50%	16.00	15.99
45%	16.59	16.56
40%	17.17	17.16
35%	17.80	17.80
30%	18.48	18.51
25%	19.26	19.30
20%	20.17	20.21
15%	21.26	21.34
10%	22.78	22.85
5%	25.19	25.26
0%	37.89	38.00

End of Assumptions

Simulation started on 10/17/2011 at 1:36 PM
Simulation stopped on 10/17/2011 at 1:40 PM