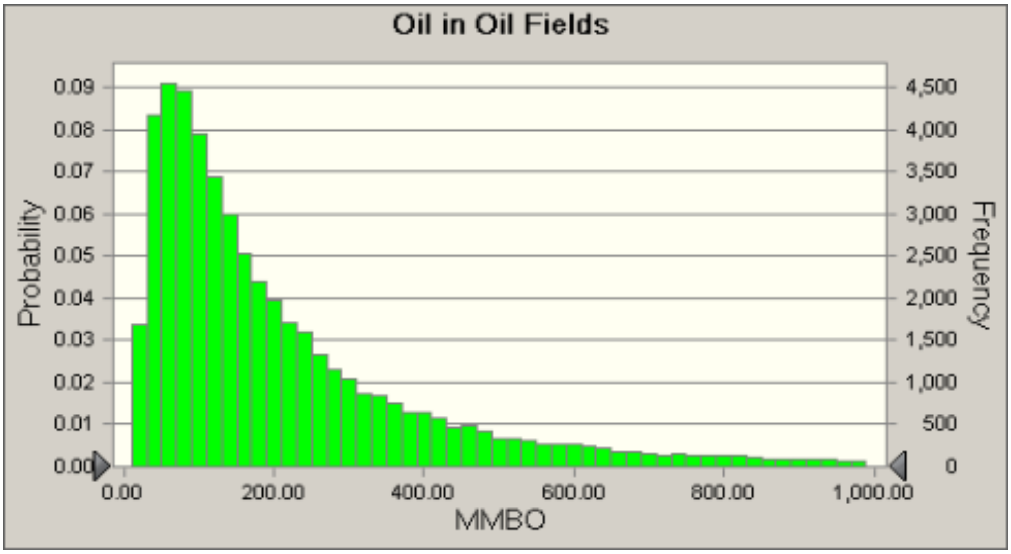
20710102
Gulf of Aqaba
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 10.36 to 3,257.29
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.20



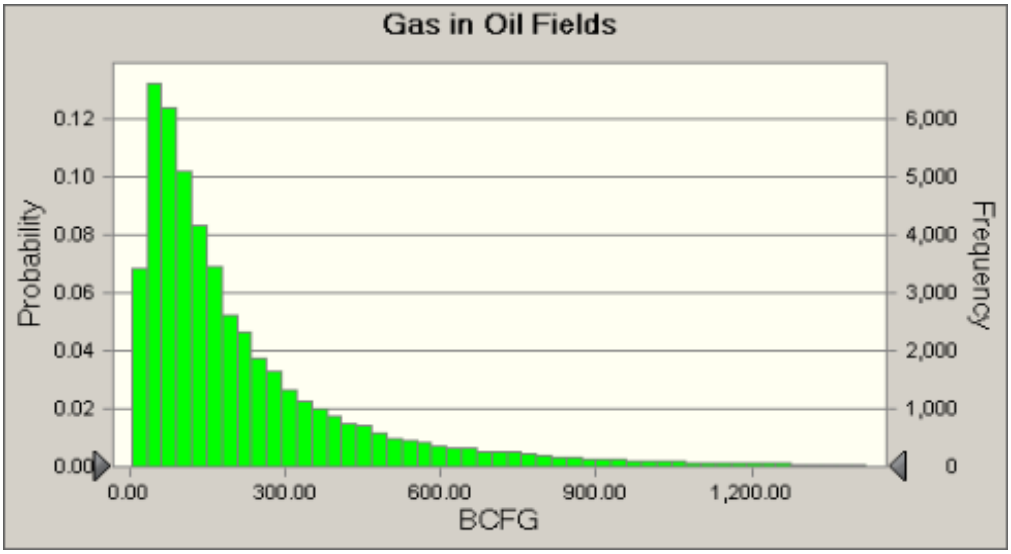
Statistics:	Forecast values
Trials	50,000
Mean	237.37
Median	148.60
Mode	---
Standard Deviation	268.35
Variance	72,010.44
Skewness	3.18
Kurtosis	17.61
Coefficient of Variability	1.13
Minimum	10.36
Maximum	3,257.29
Range Width	3,246.94
Mean Standard Error	1.20

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	10.36
95%	34.76
90%	46.51
85%	57.50
80%	68.24
75%	79.47
70%	90.91
65%	103.47
60%	116.63
55%	131.79
50%	148.60
45%	168.06
40%	190.69
35%	216.60
30%	247.37
25%	286.80
20%	338.88
15%	410.14
10%	521.73
5%	751.72
0%	3,257.29

Forecast: Gas in Oil Fields

Summary:
Entire range is from 3.33 to 14,194.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.85



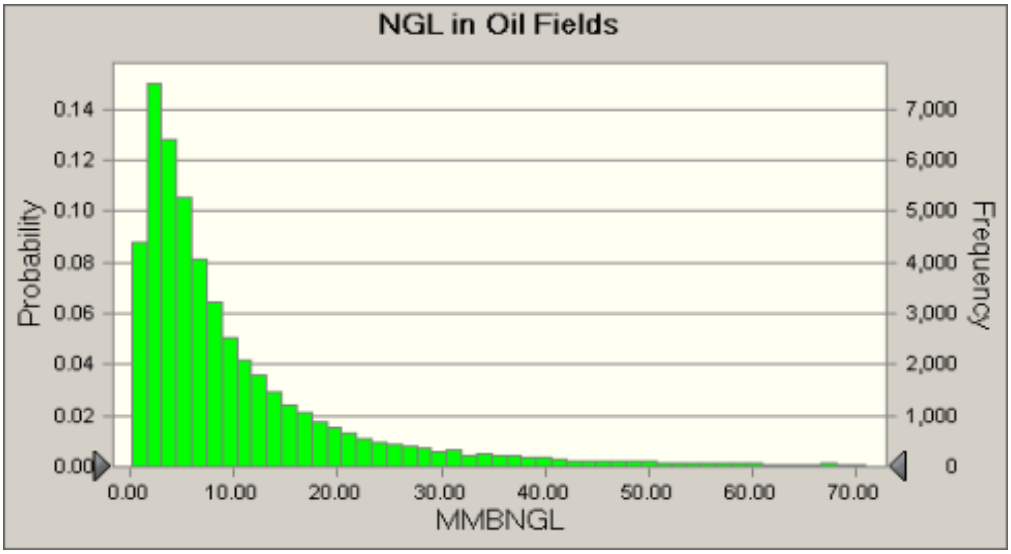
Statistics:	Forecast values
Trials	50,000
Mean	263.73
Median	144.37
Mode	---
Standard Deviation	413.35
Variance	170,859.69
Skewness	7.32
Kurtosis	108.73
Coefficient of Variability	1.57
Minimum	3.33
Maximum	14,194.91
Range Width	14,191.58
Mean Standard Error	1.85

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	3.33
95%	27.55
90%	39.47
85%	50.01
80%	61.01
75%	72.09
70%	83.87
65%	96.93
60%	110.78
55%	126.54
50%	144.36
45%	163.95
40%	188.08
35%	216.81
30%	251.86
25%	294.73
20%	354.67
15%	439.02
10%	576.03
5%	860.13
0%	14,194.91

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.06 to 498.67
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.09



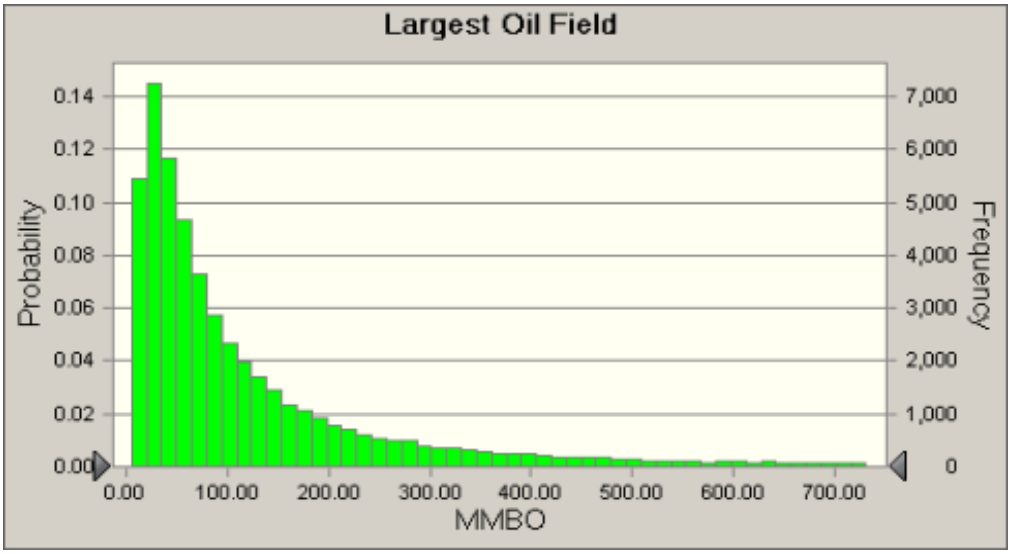
Statistics:	Forecast values
Trials	50,000
Mean	12.29
Median	6.31
Mode	---
Standard Deviation	20.98
Variance	440.16
Skewness	7.35
Kurtosis	93.92
Coefficient of Variability	1.71
Minimum	0.06
Maximum	498.67
Range Width	498.61
Mean Standard Error	0.09

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.06
95%	1.12
90%	1.63
85%	2.10
80%	2.59
75%	3.09
70%	3.63
65%	4.22
60%	4.84
55%	5.54
50%	6.31
45%	7.24
40%	8.33
35%	9.67
30%	11.33
25%	13.32
20%	16.09
15%	20.09
10%	26.83
5%	40.89
0%	498.67

Forecast: Largest Oil Field

Summary:
Entire range is from 5.31 to 1,999.58
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.94



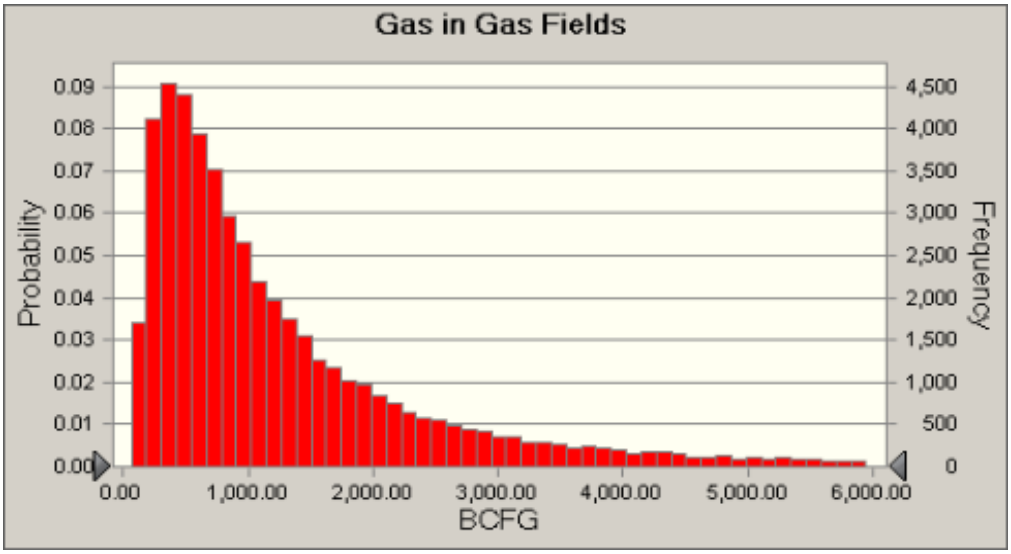
Statistics:	Forecast values
Trials	50,000
Mean	143.34
Median	71.39
Mode	---
Standard Deviation	209.77
Variance	44,002.60
Skewness	3.84
Kurtosis	22.60
Coefficient of Variability	1.46
Minimum	5.31
Maximum	1,999.58
Range Width	1,994.27
Mean Standard Error	0.94

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	5.31
95%	14.06
90%	19.21
85%	24.06
80%	29.20
75%	34.52
70%	40.22
65%	46.86
60%	54.18
55%	62.09
50%	71.39
45%	82.50
40%	96.08
35%	112.16
30%	132.36
25%	158.19
20%	193.21
15%	247.16
10%	334.21
5%	522.68
0%	1,999.58

Forecast: Gas in Gas Fields

Summary:
Entire range is from 63.52 to 22,335.74
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.22



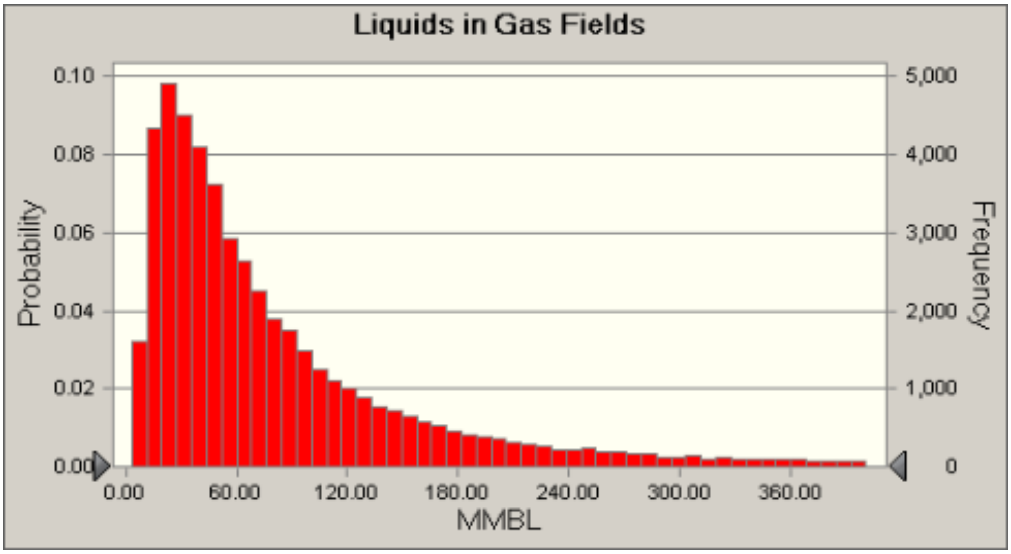
Statistics:	Forecast values
Trials	50,000
Mean	1,426.36
Median	896.49
Mode	---
Standard Deviation	1,614.87
Variance	2,607,793.29
Skewness	3.19
Kurtosis	17.66
Coefficient of Variability	1.13
Minimum	63.52
Maximum	22,335.74
Range Width	22,272.21
Mean Standard Error	7.22

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	63.52
95%	211.09
90%	282.57
85%	347.49
80%	414.17
75%	481.14
70%	550.08
65%	627.21
60%	704.17
55%	794.64
50%	896.47
45%	1,007.02
40%	1,141.02
35%	1,295.57
30%	1,478.97
25%	1,717.03
20%	2,021.06
15%	2,452.44
10%	3,131.89
5%	4,484.15
0%	22,335.74

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 2.89 to 1,611.33
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.49



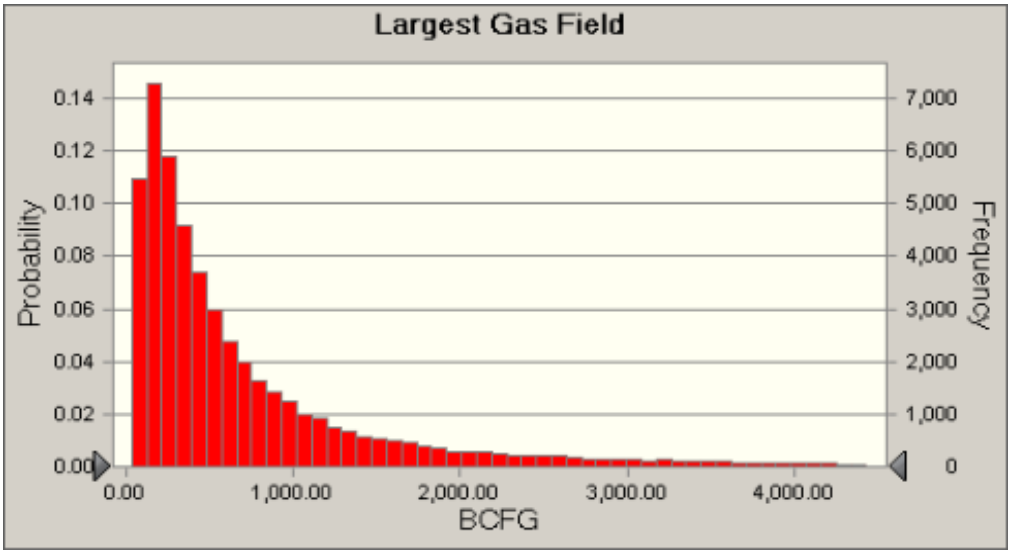
Statistics:	Forecast values
Trials	50,000
Mean	92.53
Median	56.74
Mode	---
Standard Deviation	110.23
Variance	12,150.44
Skewness	3.64
Kurtosis	23.52
Coefficient of Variability	1.19
Minimum	2.89
Maximum	1,611.33
Range Width	1,608.44
Mean Standard Error	0.49

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	2.89
95%	13.00
90%	17.58
85%	21.71
80%	25.91
75%	30.16
70%	34.62
65%	39.39
60%	44.59
55%	50.25
50%	56.74
45%	64.22
40%	72.51
35%	82.62
30%	94.46
25%	109.91
20%	130.06
15%	158.41
10%	203.43
5%	294.92
0%	1,611.33

Forecast: Largest Gas Field

Summary:
Entire range is from 32.74 to 11,998.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.69



Statistics:	Forecast values
Trials	50,000
Mean	862.30
Median	432.69
Mode	---
Standard Deviation	1,273.31
Variance	1,621,327.12
Skewness	3.87
Kurtosis	22.65
Coefficient of Variability	1.48
Minimum	32.74
Maximum	11,998.98
Range Width	11,966.24
Mean Standard Error	5.69

Forecast: Largest Gas Field (continued)

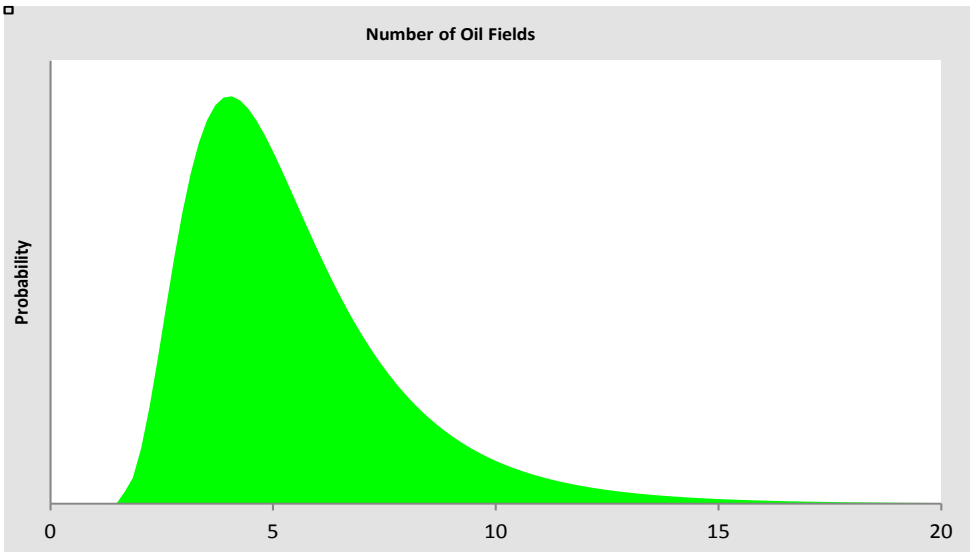
Percentiles:	BCFG
100%	32.74
95%	84.67
90%	116.71
85%	146.09
80%	176.87
75%	208.73
70%	243.75
65%	282.71
60%	327.03
55%	376.48
50%	432.69
45%	497.67
40%	574.05
35%	670.37
30%	788.79
25%	940.63
20%	1,150.21
15%	1,467.45
10%	2,003.38
5%	3,160.34
0%	11,998.98

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.54	5.54
Standard Deviation	2.44	2.44
Selected range is from -Infinity to 19.00		1.00 to 20.00



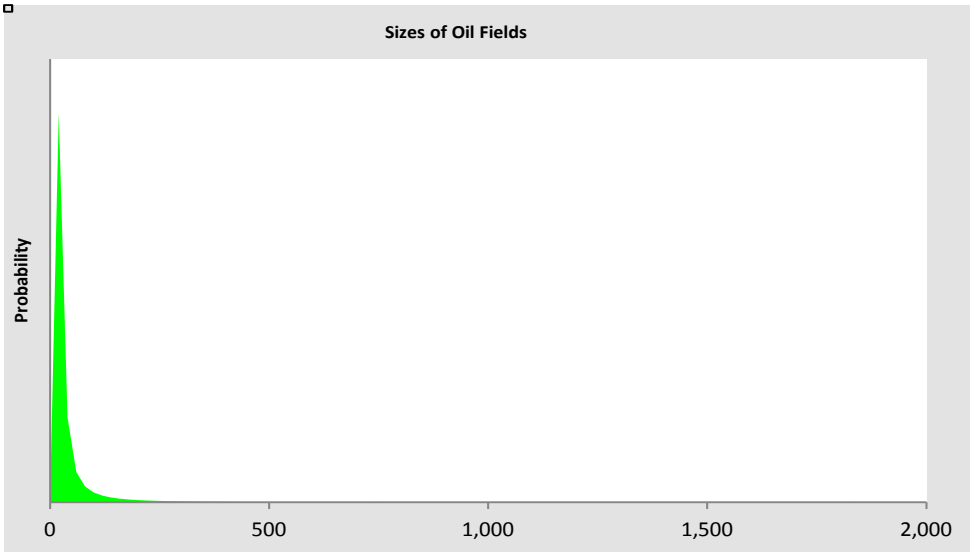
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.54	5.52
Median	4.99	5.00
Mode	---	---
Standard Deviation	2.40	2.38
Variance	5.75	5.66
Skewness	1.49	1.49
Kurtosis	6.25	6.32
Coefficient of Variability	0.4331	0.4307
Minimum	1.52	1.00
Maximum	19.95	20.00
Range Width	18.43	19.00
Mean Standard Error	0.01	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.52	1.00
95%	2.74	2.74
90%	3.10	3.10
85%	3.38	3.37
80%	3.62	3.62
75%	3.85	3.85
70%	4.07	4.07
65%	4.29	4.29
60%	4.50	4.52
55%	4.74	4.75
50%	4.99	5.00
45%	5.25	5.26
40%	5.54	5.54
35%	5.85	5.85
30%	6.21	6.21
25%	6.64	6.61
20%	7.14	7.11
15%	7.77	7.73
10%	8.67	8.61
5%	10.18	10.13
0%	19.95	20.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	41.47	46.47
Standard Deviation	186.50	186.5
Selected range is from -Infinity to 1,995.00		5.00 to 2,000.00



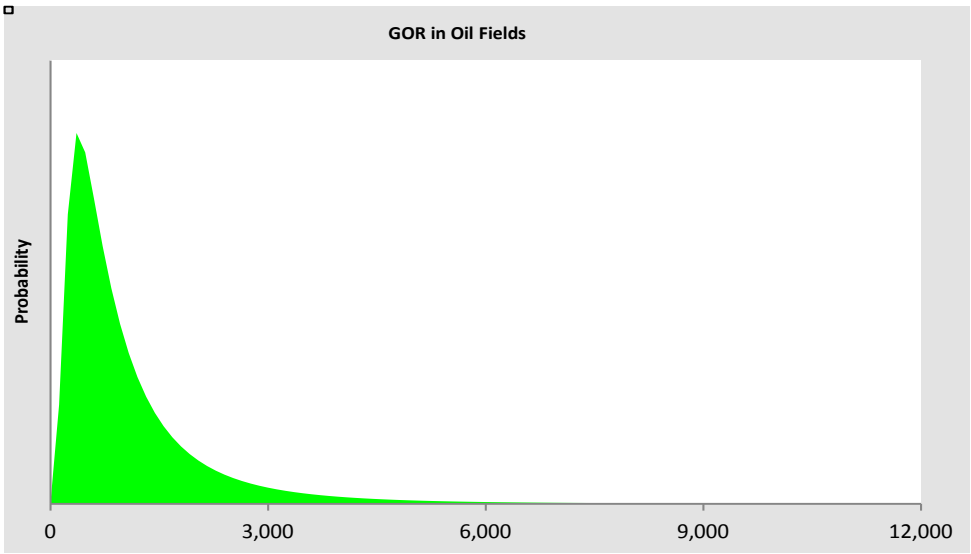
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	41.95	43.20
Median	13.95	13.98
Mode	---	---
Standard Deviation	101.41	105.15
Variance	10,284.96	11,055.56
Skewness	8.14	8.03
Kurtosis	98.38	93.18
Coefficient of Variability	2.42	2.43
Minimum	5.01	5.00
Maximum	1,999.58	2,000.00
Range Width	1,994.57	1,995.00
Mean Standard Error	0.45	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.01	5.00
95%	5.50	5.51
90%	5.94	5.96
85%	6.46	6.47
80%	7.05	7.06
75%	7.75	7.76
70%	8.58	8.59
65%	9.59	9.58
60%	10.78	10.77
55%	12.19	12.21
50%	13.95	13.98
45%	16.14	16.18
40%	18.97	18.98
35%	22.56	22.60
30%	27.29	27.43
25%	33.82	34.14
20%	43.60	43.99
15%	59.70	59.73
10%	87.36	88.80
5%	159.08	162.02
0%	1,999.58	2,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,033.52	1,133.52
Standard Deviation	1,213.90	1,213.90
Selected range is from -Infinity to 11,900.00		100.00 to 12,000.00



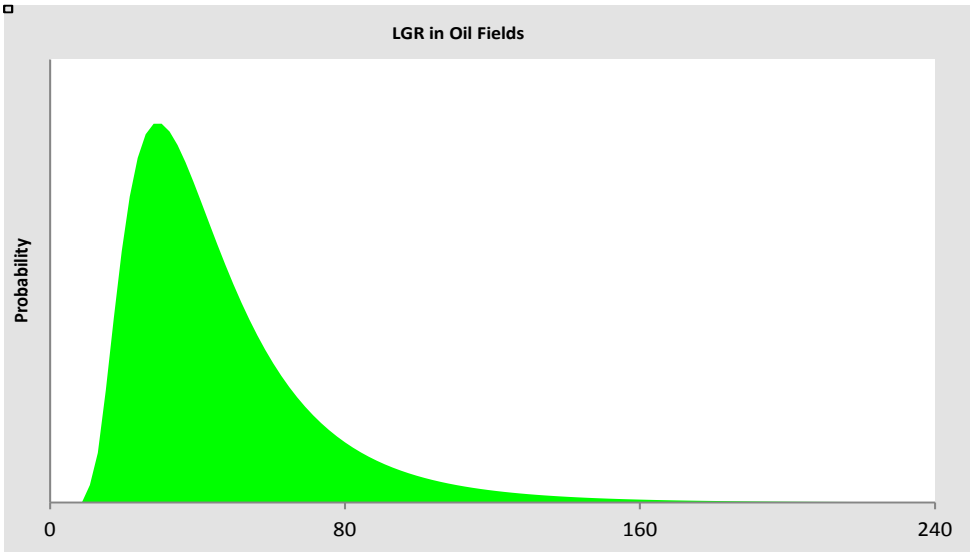
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,117.55	1,118.58
Median	769.88	769.22
Mode	---	---
Standard Deviation	1,103.75	1,107.99
Variance	1,218,270.40	1,227,636.26
Skewness	3.21	3.21
Kurtosis	18.40	18.55
Coefficient of Variability	0.99	0.99
Minimum	114.24	100.00
Maximum	11,951.05	12,000.00
Range Width	11,836.81	11,900.00
Mean Standard Error	4.94	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	114.24	100.00
95%	243.90	244.80
90%	303.15	303.07
85%	355.91	355.11
80%	407.54	405.82
75%	457.97	457.29
70%	510.99	510.85
65%	569.97	567.61
60%	629.88	628.70
55%	697.87	695.39
50%	769.86	769.22
45%	852.29	852.19
40%	946.62	947.01
35%	1,057.03	1,057.58
30%	1,187.81	1,189.70
25%	1,347.79	1,352.73
20%	1,564.43	1,562.98
15%	1,857.18	1,852.65
10%	2,307.49	2,298.95
5%	3,132.56	3,172.47
0%	11,951.05	12,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	7
Mean	39.77	46.77
Standard Deviation	26.76	26.76
Selected range is from -Infinity to 218.00		7.00 to 225.00



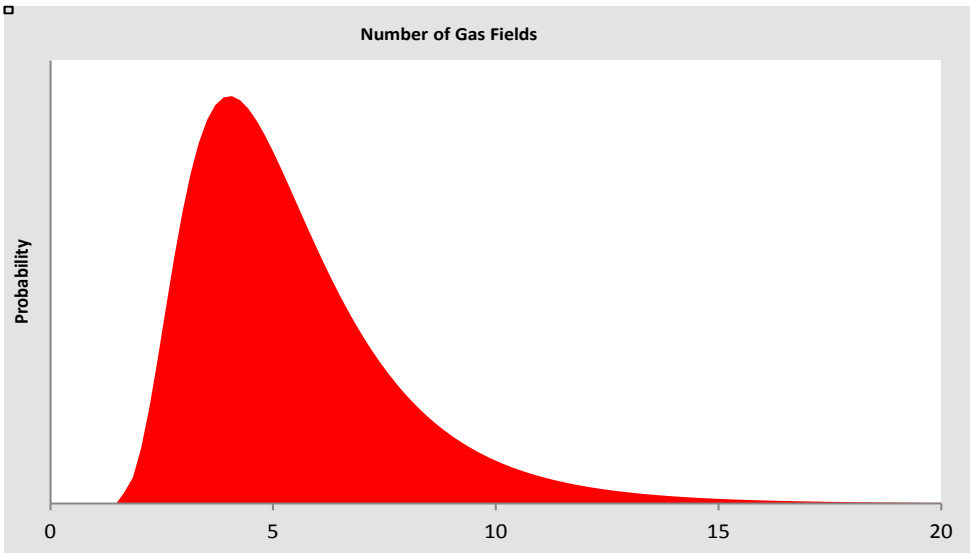
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	46.65	46.55
Median	39.92	39.97
Mode	---	---
Standard Deviation	26.02	25.78
Variance	677.23	664.83
Skewness	1.92	1.87
Kurtosis	8.48	8.28
Coefficient of Variability	0.5578	0.5539
Minimum	9.43	7.00
Maximum	224.84	225.00
Range Width	215.41	218.00
Mean Standard Error	0.12	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.43	7.00
95%	19.11	19.08
90%	22.19	22.08
85%	24.62	24.51
80%	26.85	26.72
75%	28.92	28.84
70%	31.05	30.94
65%	33.09	33.06
60%	35.34	35.25
55%	37.65	37.54
50%	39.92	39.97
45%	42.58	42.60
40%	45.47	45.49
35%	48.75	48.72
30%	52.23	52.41
25%	56.56	56.76
20%	61.86	62.09
15%	69.16	69.03
10%	79.17	78.98
5%	97.15	96.65
0%	224.84	225.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	4.54	5.54
Standard Deviation	2.44	2.44
Selected range is from -Infinity to 19.00		1.00 to 20.00



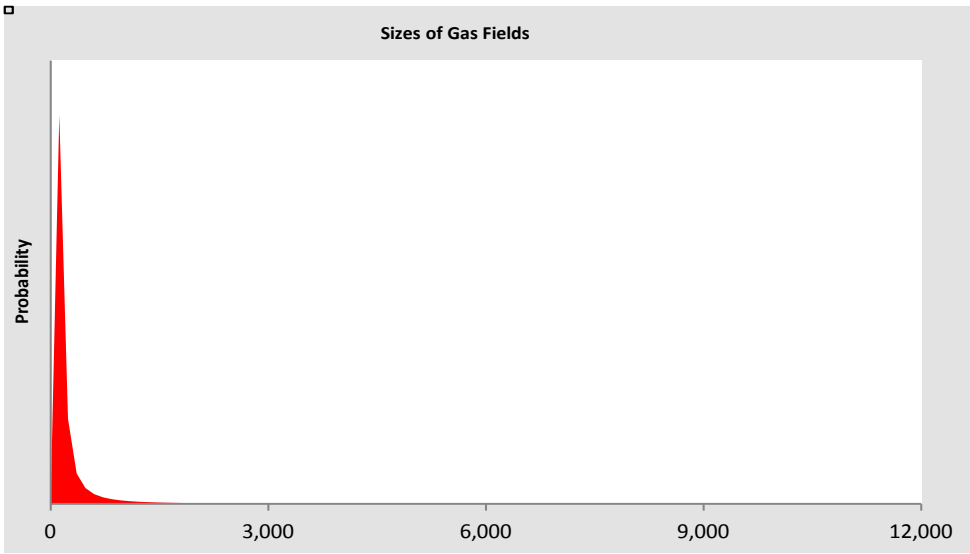
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.55	5.52
Median	5.02	5.00
Mode	---	---
Standard Deviation	2.41	2.38
Variance	5.82	5.66
Skewness	1.54	1.49
Kurtosis	6.56	6.32
Coefficient of Variability	0.4344	0.4307
Minimum	1.54	1.00
Maximum	19.98	20.00
Range Width	18.43	19.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.54	1.00
95%	2.75	2.74
90%	3.10	3.10
85%	3.38	3.37
80%	3.63	3.62
75%	3.85	3.85
70%	4.08	4.07
65%	4.31	4.29
60%	4.54	4.52
55%	4.77	4.75
50%	5.02	5.00
45%	5.28	5.26
40%	5.58	5.54
35%	5.89	5.85
30%	6.24	6.21
25%	6.64	6.61
20%	7.12	7.11
15%	7.75	7.73
10%	8.67	8.61
5%	10.19	10.13
0%	19.98	20.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	248.80	278.8
Standard Deviation	1,119.01	1,119.01
Selected range is from -Infinity to 11,970.00		30.00 to 12,000.00



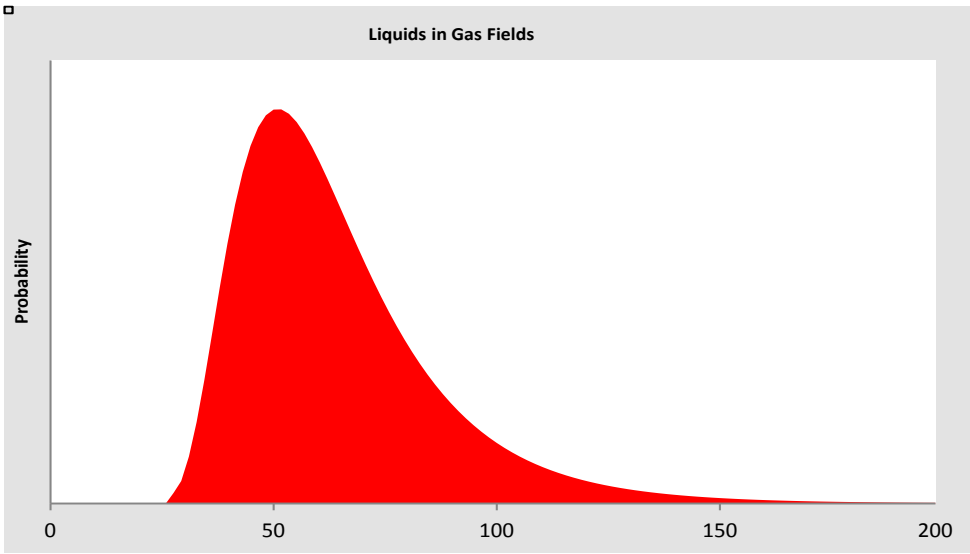
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	260.77	259.21
Median	84.40	83.88
Mode	---	---
Standard Deviation	653.68	630.87
Variance	427,293.19	398,000.18
Skewness	7.97	8.03
Kurtosis	90.00	93.18
Coefficient of Variability	2.51	2.43
Minimum	30.05	30.00
Maximum	11,838.26	12,000.00
Range Width	11,808.21	11,970.00
Mean Standard Error	2.92	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.05	30.00
95%	33.05	33.04
90%	35.75	35.74
85%	38.81	38.81
80%	42.39	42.39
75%	46.45	46.59
70%	51.40	51.56
65%	57.52	57.49
60%	64.73	64.62
55%	73.44	73.27
50%	84.39	83.88
45%	97.99	97.10
40%	114.92	113.86
35%	137.23	135.58
30%	166.21	164.57
25%	206.13	204.83
20%	265.53	263.95
15%	361.06	358.41
10%	529.15	532.77
5%	977.19	972.11
0%	11,838.26	12,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	20
Mean	45.03	65.03
Standard Deviation	23.28	23.28
Selected range is from -Infinity to 180.00		20.00 to 200.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	64.76	64.87
Median	59.77	59.98
Mode	---	---
Standard Deviation	22.55	22.70
Variance	508.59	515.28
Skewness	1.42	1.44
Kurtosis	5.98	6.06
Coefficient of Variability	0.3482	0.3499
Minimum	25.77	20.00
Maximum	199.46	200.00
Range Width	173.70	180.00
Mean Standard Error	0.10	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	25.77	20.00
95%	37.96	37.96
90%	41.44	41.43
85%	44.17	44.14
80%	46.50	46.55
75%	48.76	48.79
70%	50.91	50.98
65%	53.12	53.14
60%	55.28	55.34
55%	57.45	57.61
50%	59.77	59.98
45%	62.31	62.49
40%	65.06	65.22
35%	68.13	68.21
30%	71.47	71.58
25%	75.42	75.48
20%	80.15	80.17
15%	86.21	86.13
10%	94.39	94.45
5%	108.17	108.68
0%	199.46	200.00

End of Assumptions

Simulation started on 10/19/2010 at 12:17 PM
Simulation stopped on 10/19/2010 at 12:34 PM