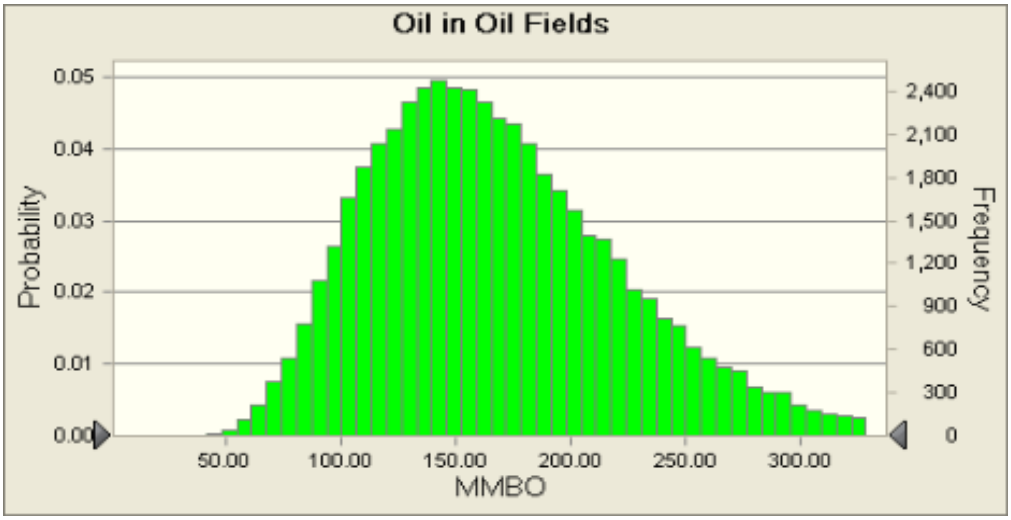
38240101
Sunda-Asri Basins
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 2.63 to 555.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.26



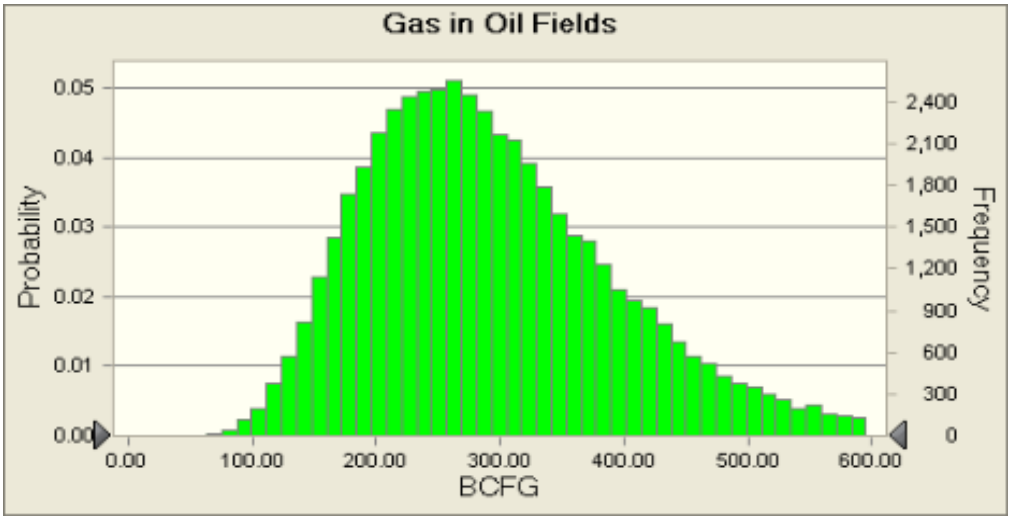
Statistics:	Forecast values
Trials	50,000
Mean	168.73
Median	161.13
Mode	---
Standard Deviation	57.29
Variance	3,282.31
Skewness	0.8046
Kurtosis	3.98
Coefficient of Variability	0.3395
Minimum	2.63
Maximum	555.96
Range Width	553.33
Mean Standard Error	0.26

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	2.63
95%	89.72
90%	102.02
85%	111.26
80%	119.45
75%	127.21
70%	134.12
65%	140.81
60%	147.45
55%	154.16
50%	161.13
45%	168.21
40%	175.68
35%	183.43
30%	192.46
25%	202.44
20%	213.75
15%	227.01
10%	245.22
5%	273.85
0%	555.96

Forecast: Gas in Oil Fields

Summary:
Entire range is from 2.51 to 1,098.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.48



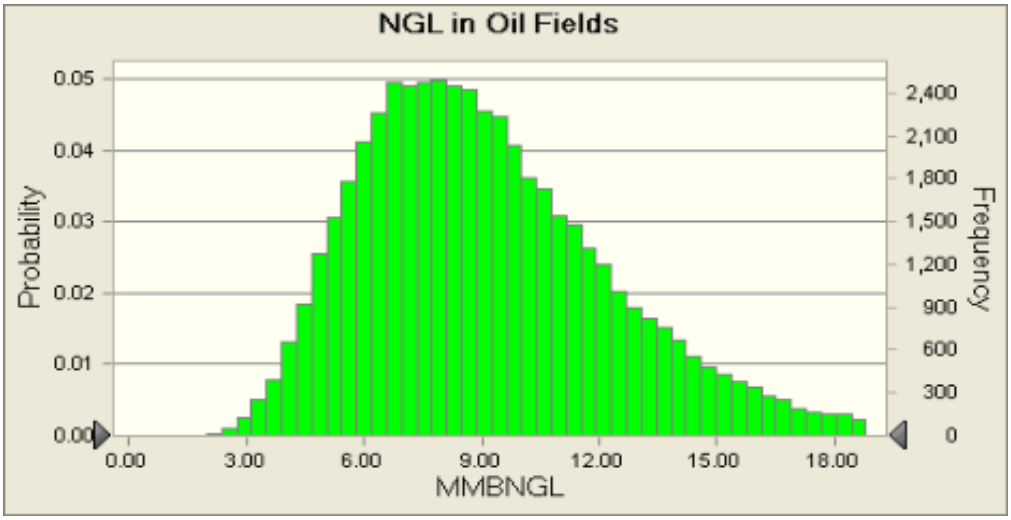
Statistics:	Forecast values
Trials	50,000
Mean	295.71
Median	279.43
Mode	---
Standard Deviation	107.03
Variance	11,454.87
Skewness	0.9506
Kurtosis	4.49
Coefficient of Variability	0.3619
Minimum	2.51
Maximum	1,098.22
Range Width	1,095.71
Mean Standard Error	0.48

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	2.51
95%	151.97
90%	174.25
85%	190.84
80%	205.23
75%	218.28
70%	230.89
65%	243.06
60%	255.30
55%	267.25
50%	279.43
45%	292.33
40%	306.27
35%	320.62
30%	336.68
25%	355.45
20%	376.91
15%	403.53
10%	437.37
5%	494.59
0%	1,098.22

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.06 to 33.69
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



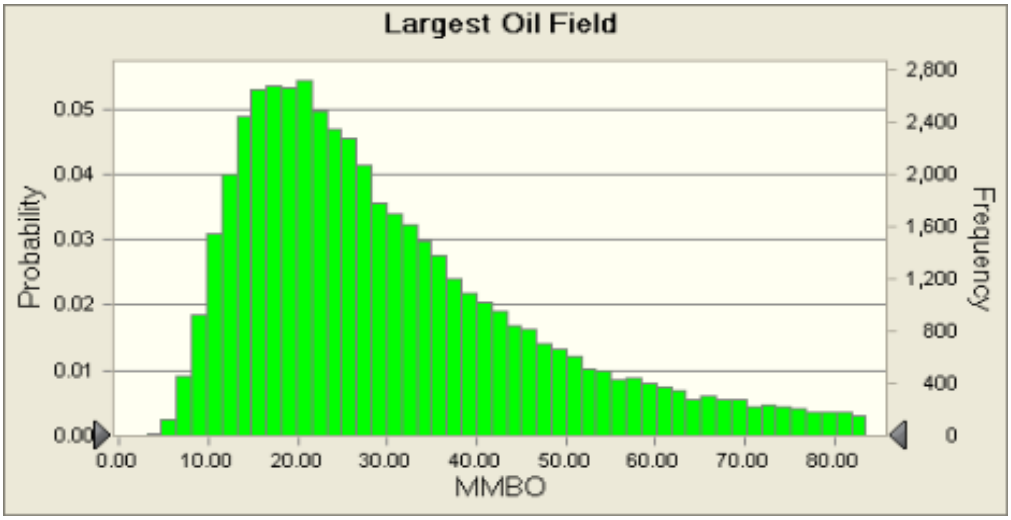
Statistics:	Forecast values
Trials	50,000
Mean	9.22
Median	8.68
Mode	---
Standard Deviation	3.43
Variance	11.74
Skewness	1.01
Kurtosis	4.71
Coefficient of Variability	0.3714
Minimum	0.06
Maximum	33.69
Range Width	33.63
Mean Standard Error	0.02

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.06
95%	4.68
90%	5.36
85%	5.89
80%	6.34
75%	6.76
70%	7.14
65%	7.53
60%	7.91
55%	8.30
50%	8.68
45%	9.10
40%	9.53
35%	9.99
30%	10.52
25%	11.11
20%	11.80
15%	12.63
10%	13.76
5%	15.62
0%	33.69

Forecast: Largest Oil Field

Summary:
Entire range is from 1.38 to 99.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.08



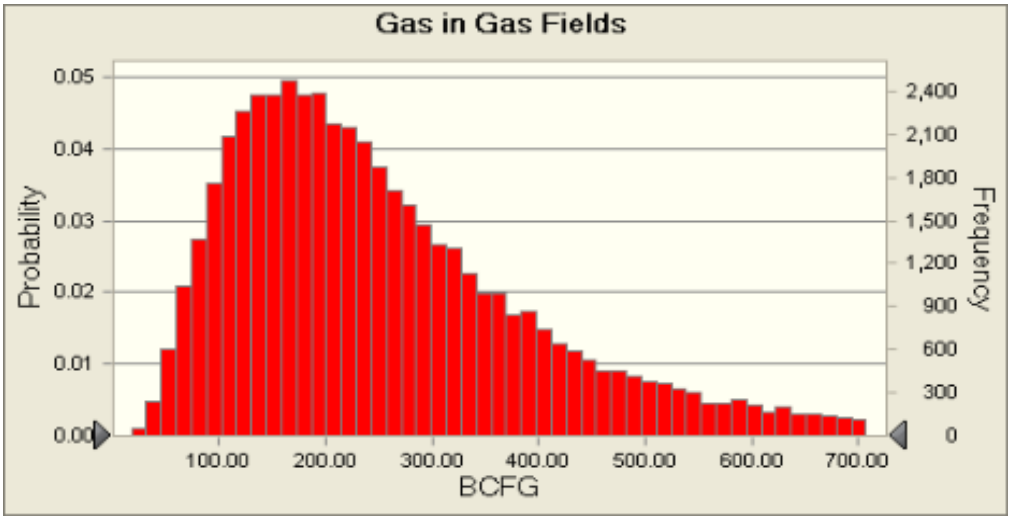
Statistics:	Forecast values
Trials	50,000
Mean	31.47
Median	26.33
Mode	---
Standard Deviation	18.59
Variance	345.65
Skewness	1.31
Kurtosis	4.46
Coefficient of Variability	0.5907
Minimum	1.38
Maximum	99.98
Range Width	98.60
Mean Standard Error	0.08

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	1.38
95%	10.89
90%	13.08
85%	14.80
80%	16.39
75%	17.96
70%	19.52
65%	21.07
60%	22.71
55%	24.49
50%	26.33
45%	28.34
40%	30.74
35%	33.31
30%	36.20
25%	39.81
20%	44.17
15%	49.82
10%	58.21
5%	71.66
0%	99.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 17.72 to 1,543.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.71



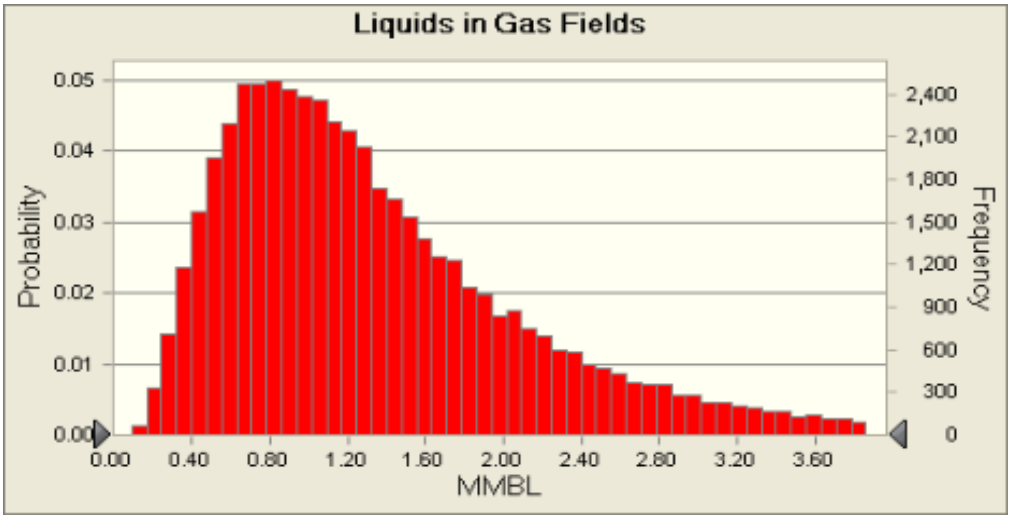
Statistics:	Forecast values
Trials	50,000
Mean	261.80
Median	223.93
Mode	---
Standard Deviation	159.01
Variance	25,285.59
Skewness	1.51
Kurtosis	6.30
Coefficient of Variability	0.6074
Minimum	17.72
Maximum	1,543.99
Range Width	1,526.27
Mean Standard Error	0.71

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	17.72
95%	80.43
90%	101.75
85%	118.59
80%	133.90
75%	148.52
70%	162.98
65%	177.81
60%	192.59
55%	207.86
50%	223.92
45%	241.15
40%	259.88
35%	281.17
30%	305.60
25%	332.94
20%	367.15
15%	410.01
10%	473.41
5%	580.54
0%	1,543.99

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.09 to 11.29
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.00



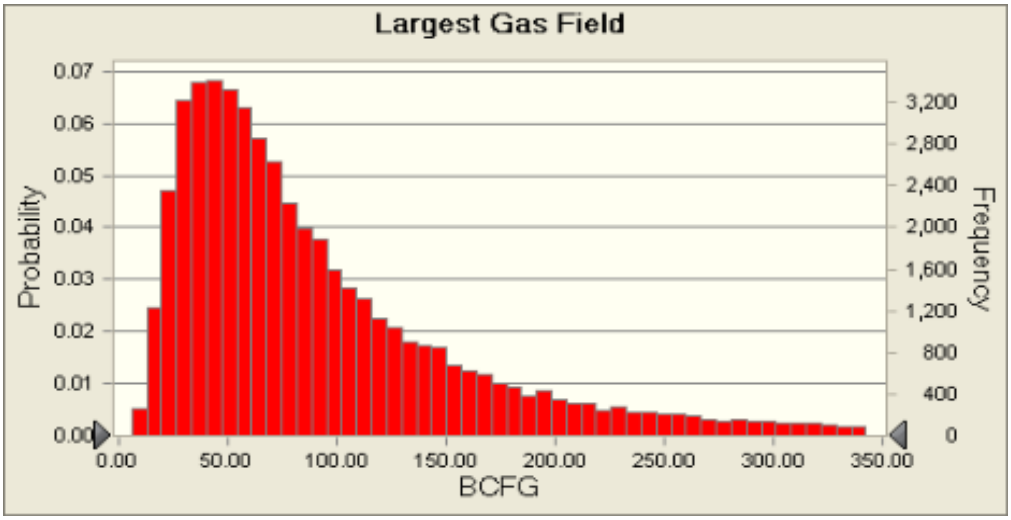
Statistics:	Forecast values
Trials	50,000
Mean	1.39
Median	1.17
Mode	---
Standard Deviation	0.88
Variance	0.78
Skewness	1.75
Kurtosis	8.11
Coefficient of Variability	0.6366
Minimum	0.09
Maximum	11.29
Range Width	11.20
Mean Standard Error	0.00

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.09
95%	0.41
90%	0.52
85%	0.61
80%	0.69
75%	0.77
70%	0.85
65%	0.92
60%	1.00
55%	1.09
50%	1.17
45%	1.26
40%	1.37
35%	1.48
30%	1.61
25%	1.76
20%	1.95
15%	2.19
10%	2.53
5%	3.11
0%	11.29

Forecast: Largest Gas Field

Summary:
Entire range is from 5.47 to 599.81
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.39



Statistics:	Forecast values
Trials	50,000
Mean	99.55
Median	71.92
Mode	---
Standard Deviation	86.63
Variance	7,504.38
Skewness	2.28
Kurtosis	9.50
Coefficient of Variability	0.8702
Minimum	5.47
Maximum	599.81
Range Width	594.34
Mean Standard Error	0.39

Forecast: Largest Gas Field (continued)

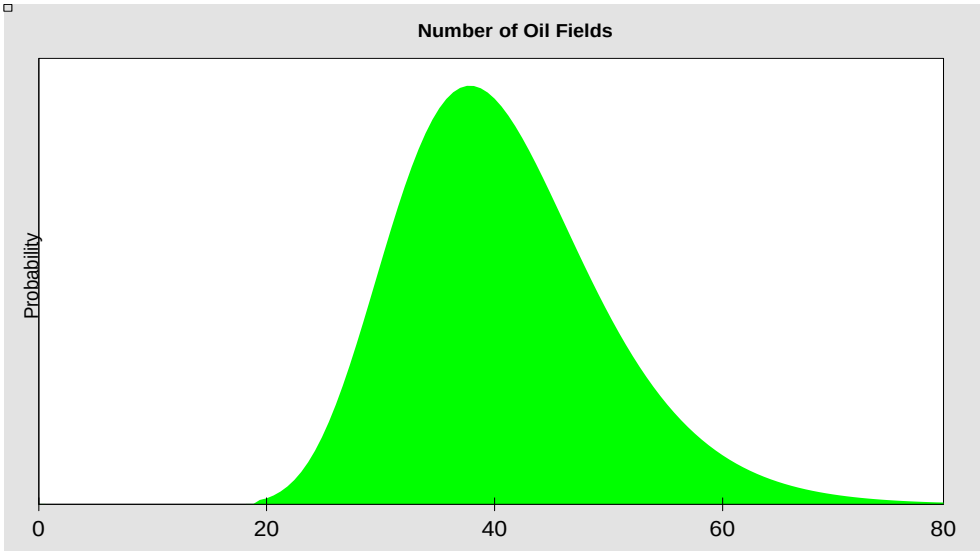
Percentiles:	BCFG
100%	5.47
95%	22.49
90%	28.74
85%	33.83
80%	38.94
75%	43.87
70%	48.97
65%	54.18
60%	59.68
55%	65.51
50%	71.91
45%	79.25
40%	87.72
35%	97.22
30%	108.77
25%	123.15
20%	141.31
15%	165.43
10%	203.48
5%	278.46
0%	599.81

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	40.03	41.03
Standard Deviation	9.27	9.27
Selected range is from -Infinity to 79.00		1.00 to 80.00



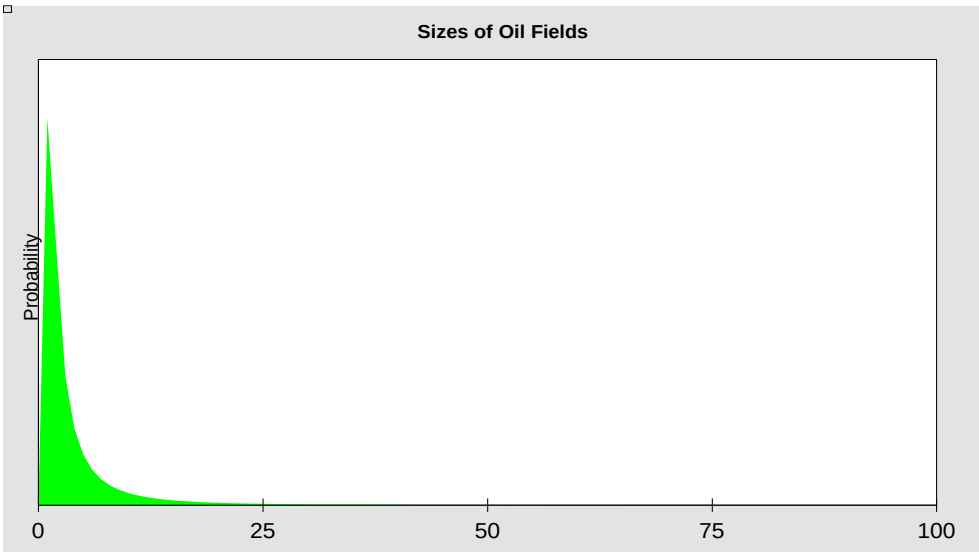
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	41.02	40.99
Median	40.00	39.99
Mode	---	---
Standard Deviation	9.19	9.16
Variance	84.44	83.94
Skewness	0.6358	0.6278
Kurtosis	3.51	3.49
Coefficient of Variability	0.2240	0.2235
Minimum	12.83	1.00
Maximum	79.91	80.00
Range Width	67.08	79.00
Mean Standard Error	0.04	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	12.83	1.00
95%	27.85	27.78
90%	30.12	30.10
85%	31.80	31.77
80%	33.22	33.17
75%	34.45	34.42
70%	35.61	35.59
65%	36.69	36.71
60%	37.77	37.80
55%	38.86	38.89
50%	40.00	39.99
45%	41.10	41.12
40%	42.31	42.31
35%	43.60	43.57
30%	45.02	44.94
25%	46.57	46.47
20%	48.33	48.24
15%	50.44	50.38
10%	53.30	53.20
5%	57.73	57.67
0%	79.91	80.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	3.77	4.27
Standard Deviation	8.69	8.69
Selected range is from -Infinity to 99.50		0.50 to 100.00



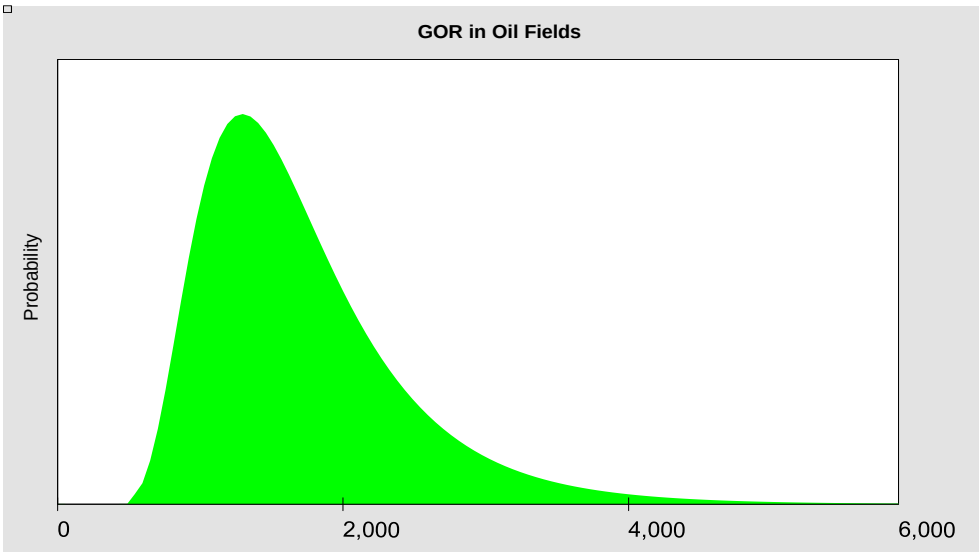
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4.14	4.12
Median	1.99	2.00
Mode	---	---
Standard Deviation	6.83	6.70
Variance	46.68	44.95
Skewness	5.49	5.52
Kurtosis	45.93	47.32
Coefficient of Variability	1.65	1.63
Minimum	0.50	0.50
Maximum	99.83	100.00
Range Width	99.33	99.50
Mean Standard Error	0.03	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	0.50	0.50
95%	0.66	0.66
90%	0.76	0.76
85%	0.86	0.87
80%	0.97	0.98
75%	1.09	1.10
70%	1.22	1.24
65%	1.38	1.39
60%	1.56	1.56
55%	1.76	1.76
50%	1.99	2.00
45%	2.28	2.28
40%	2.62	2.61
35%	3.03	3.02
30%	3.55	3.55
25%	4.23	4.24
20%	5.17	5.18
15%	6.61	6.60
10%	9.03	8.98
5%	14.41	14.32
0%	99.83	100.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,457.57	1,757.57
Standard Deviation	739.08	739.08
Selected range is from -Infinity to 5,700.00		300.00 to 6,000.00



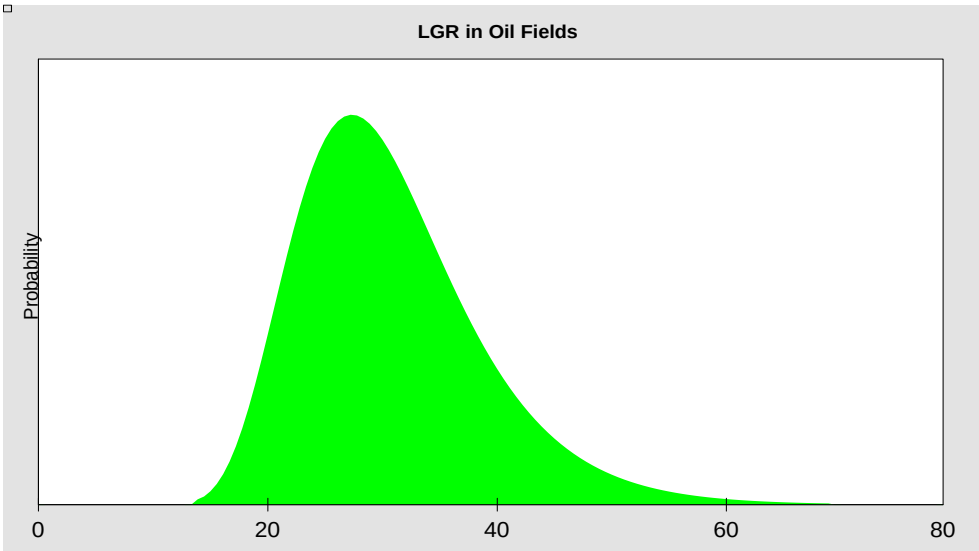
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,754.96	1,752.46
Median	1,599.88	1,599.22
Mode	---	---
Standard Deviation	723.25	721.01
Variance	523,096.64	519,860.47
Skewness	1.40	1.41
Kurtosis	5.89	5.93
Coefficient of Variability	0.4121	0.4114
Minimum	479.28	300.00
Maximum	5,983.62	6,000.00
Range Width	5,504.33	5,700.00
Mean Standard Error	3.23	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	479.28	300.00
95%	892.81	891.74
90%	1,004.21	1,004.03
85%	1,094.13	1,091.58
80%	1,169.71	1,168.87
75%	1,242.04	1,241.15
70%	1,312.89	1,311.17
65%	1,380.75	1,380.68
60%	1,452.70	1,451.06
55%	1,524.11	1,523.49
50%	1,599.88	1,599.22
45%	1,680.82	1,679.62
40%	1,769.50	1,766.40
35%	1,867.37	1,861.81
30%	1,973.78	1,969.04
25%	2,094.12	2,092.98
20%	2,243.83	2,241.75
15%	2,433.78	2,430.59
10%	2,693.41	2,693.96
5%	3,162.24	3,142.84
0%	5,983.62	6,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	26.22	31.22
Standard Deviation	8.31	8.31
Selected range is from -Infinity to 65.00		5.00 to 70.00



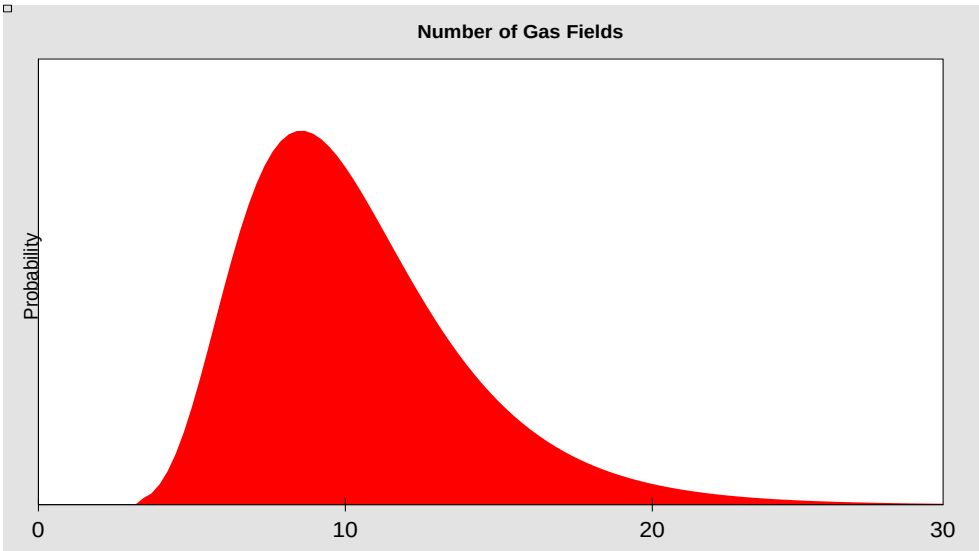
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.21	31.18
Median	30.01	29.99
Mode	---	---
Standard Deviation	8.19	8.19
Variance	67.04	67.03
Skewness	0.8716	0.8687
Kurtosis	4.09	4.05
Coefficient of Variability	0.2623	0.2626
Minimum	11.71	5.00
Maximum	69.86	70.00
Range Width	58.15	65.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.71	5.00
95%	19.99	20.03
90%	21.83	21.82
85%	23.18	23.14
80%	24.30	24.27
75%	25.33	25.29
70%	26.33	26.25
65%	27.24	27.19
60%	28.15	28.11
55%	29.07	29.04
50%	30.01	29.99
45%	31.01	30.98
40%	32.06	32.02
35%	33.21	33.15
30%	34.46	34.38
25%	35.84	35.78
20%	37.44	37.40
15%	39.36	39.41
10%	42.03	42.10
5%	46.46	46.46
0%	69.86	70.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	9.67	10.67
Standard Deviation	3.80	3.8
Selected range is from -Infinity to 29.00		1.00 to 30.00



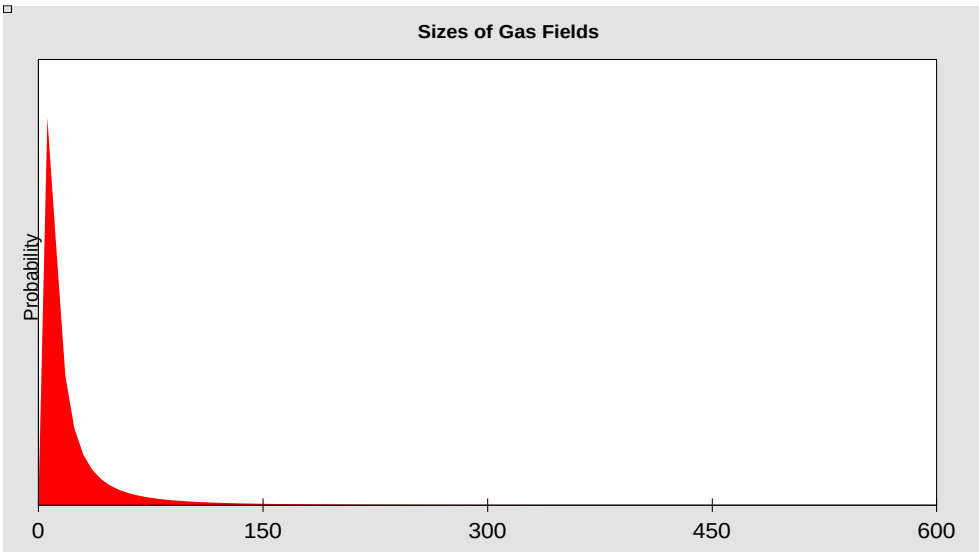
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.63	10.65
Median	9.98	10.00
Mode	---	---
Standard Deviation	3.73	3.73
Variance	13.90	13.90
Skewness	1.10	1.08
Kurtosis	4.78	4.69
Coefficient of Variability	0.3507	0.3502
Minimum	2.78	1.00
Maximum	29.94	30.00
Range Width	27.16	29.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	2.78	1.00
95%	5.82	5.83
90%	6.53	6.54
85%	7.08	7.08
80%	7.53	7.54
75%	7.96	7.97
70%	8.37	8.38
65%	8.77	8.78
60%	9.17	9.17
55%	9.57	9.58
50%	9.98	10.00
45%	10.42	10.43
40%	10.88	10.90
35%	11.39	11.41
30%	11.95	11.97
25%	12.58	12.61
20%	13.32	13.36
15%	14.27	14.31
10%	15.55	15.59
5%	17.73	17.72
0%	29.94	30.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	22.62	25.62
Standard Deviation	52.14	52.14
Selected range is from -Infinity to 597.00		3.00 to 600.00



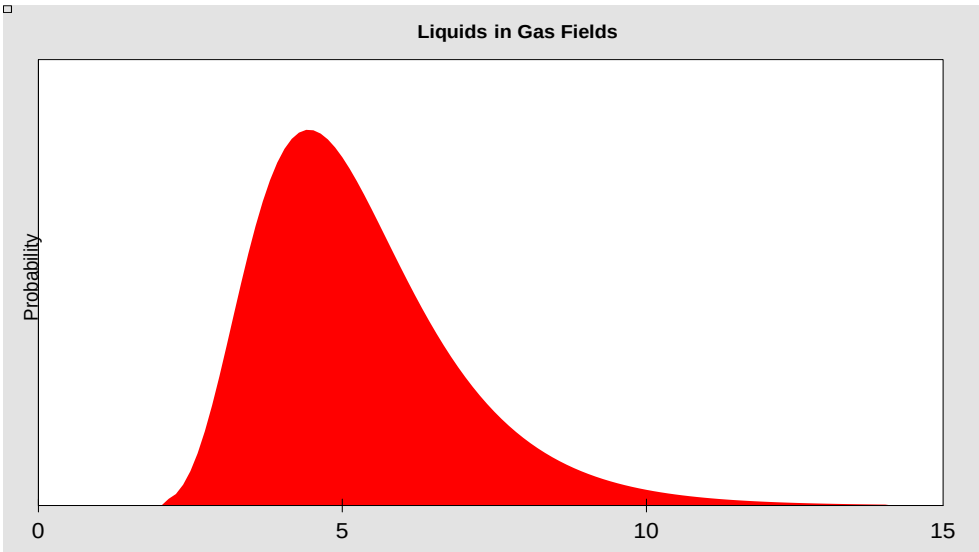
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	24.60	24.70
Median	11.88	11.98
Mode	---	---
Standard Deviation	40.30	40.23
Variance	1,624.48	1,618.20
Skewness	5.55	5.52
Kurtosis	47.83	47.32
Coefficient of Variability	1.64	1.63
Minimum	3.05	3.00
Maximum	595.23	600.00
Range Width	592.18	597.00
Mean Standard Error	0.18	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.05	3.00
95%	3.96	3.96
90%	4.57	4.58
85%	5.18	5.20
80%	5.84	5.87
75%	6.56	6.60
70%	7.35	7.41
65%	8.29	8.33
60%	9.30	9.37
55%	10.50	10.58
50%	11.88	11.98
45%	13.51	13.65
40%	15.50	15.67
35%	17.96	18.15
30%	21.11	21.29
25%	25.18	25.41
20%	30.72	31.10
15%	39.33	39.57
10%	53.76	53.91
5%	86.06	85.91
0%	595.23	600.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	4.30	5.3
Standard Deviation	1.70	1.7
Selected range is from -Infinity to 13.00		1.00 to 14.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5.29	5.29
Median	5.00	5.00
Mode	---	---
Standard Deviation	1.66	1.67
Variance	2.77	2.79
Skewness	1.09	1.09
Kurtosis	4.70	4.72
Coefficient of Variability	0.3144	0.3159
Minimum	1.70	1.00
Maximum	13.97	14.00
Range Width	12.28	13.00
Mean Standard Error	0.01	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.70	1.00
95%	3.13	3.14
90%	3.46	3.45
85%	3.70	3.69
80%	3.91	3.90
75%	4.10	4.09
70%	4.28	4.27
65%	4.46	4.45
60%	4.64	4.63
55%	4.82	4.81
50%	5.00	5.00
45%	5.19	5.19
40%	5.40	5.40
35%	5.62	5.63
30%	5.88	5.88
25%	6.17	6.17
20%	6.50	6.51
15%	6.92	6.93
10%	7.48	7.51
5%	8.47	8.46
0%	13.97	14.00

End of Assumptions

Simulation started on 10/2/2009 at 15:27:58
Simulation stopped on 10/2/2009 at 15:48:00