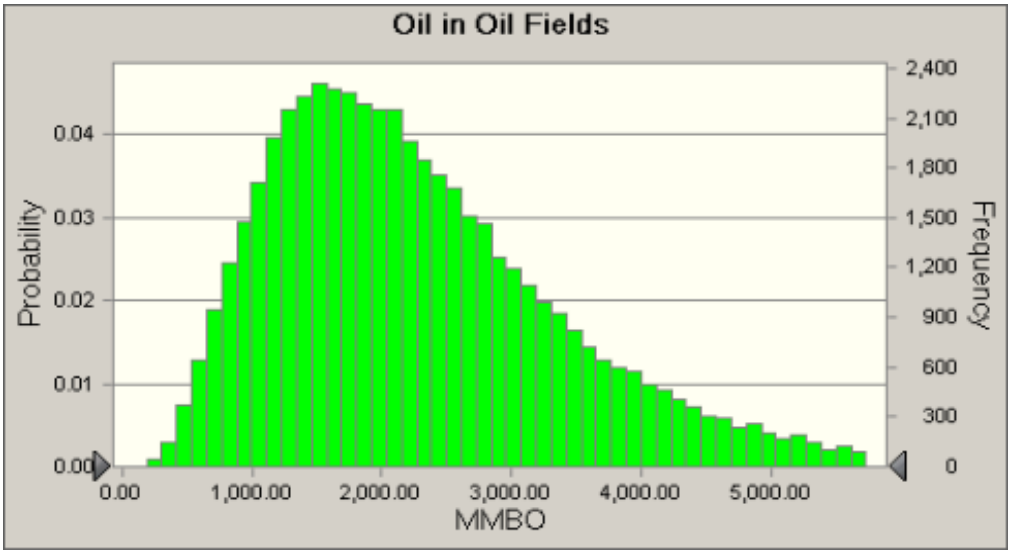
70660101
Cretaceous-Tertiary Rifts
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 69.30 to 10,940.75
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.46



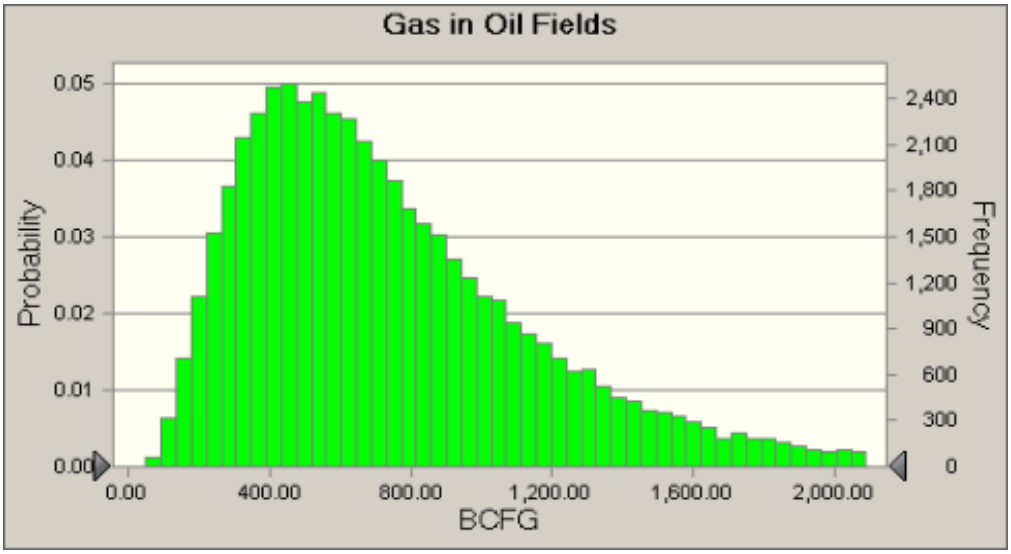
Statistics:	Forecast values
Trials	50,000
Mean	2,314.59
Median	2,081.75
Mode	---
Standard Deviation	1,220.23
Variance	1,488,969.60
Skewness	1.25
Kurtosis	5.41
Coefficient of Variability	0.5272
Minimum	69.30
Maximum	10,940.75
Range Width	10,871.45
Mean Standard Error	5.46

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	69.30
95%	794.21
90%	1,002.72
85%	1,163.11
80%	1,301.29
75%	1,434.33
70%	1,558.42
65%	1,685.47
60%	1,812.37
55%	1,946.23
50%	2,081.61
45%	2,219.31
40%	2,374.11
35%	2,541.96
30%	2,724.72
25%	2,935.35
20%	3,185.20
15%	3,493.19
10%	3,932.91
5%	4,637.05
0%	10,940.75

Forecast: Gas in Oil Fields

Summary:
Entire range is from 7.21 to 6,205.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.12



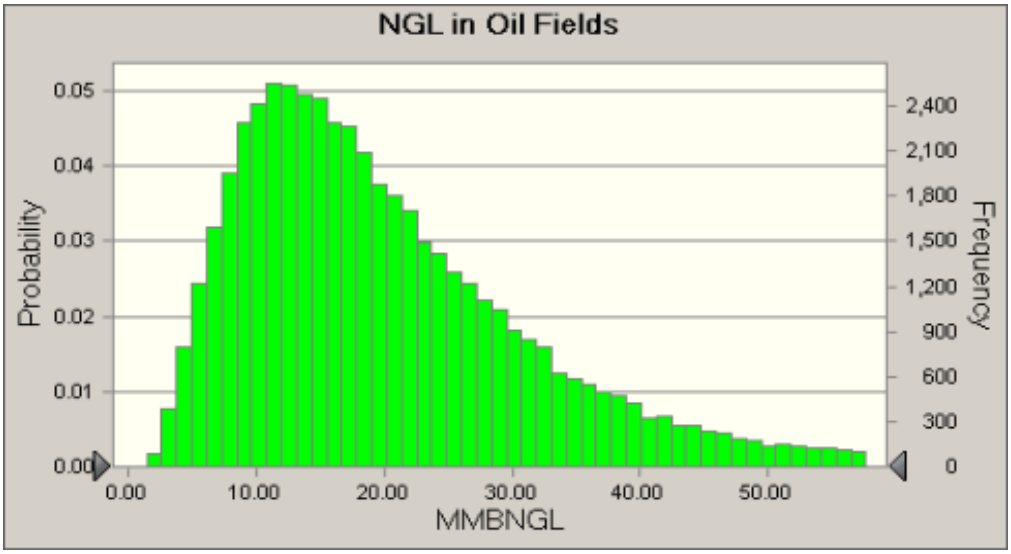
Statistics:	Forecast values
Trials	50,000
Mean	765.70
Median	656.75
Mode	---
Standard Deviation	473.42
Variance	224,122.90
Skewness	1.71
Kurtosis	8.19
Coefficient of Variability	0.6183
Minimum	7.21
Maximum	6,205.28
Range Width	6,198.07
Mean Standard Error	2.12

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	7.21
95%	227.98
90%	292.88
85%	343.39
80%	389.56
75%	432.57
70%	475.22
65%	519.49
60%	563.14
55%	609.73
50%	656.74
45%	708.08
40%	764.02
35%	826.84
30%	895.30
25%	976.03
20%	1,072.70
15%	1,196.65
10%	1,366.84
5%	1,664.80
0%	6,205.28

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.19 to 190.94
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.06



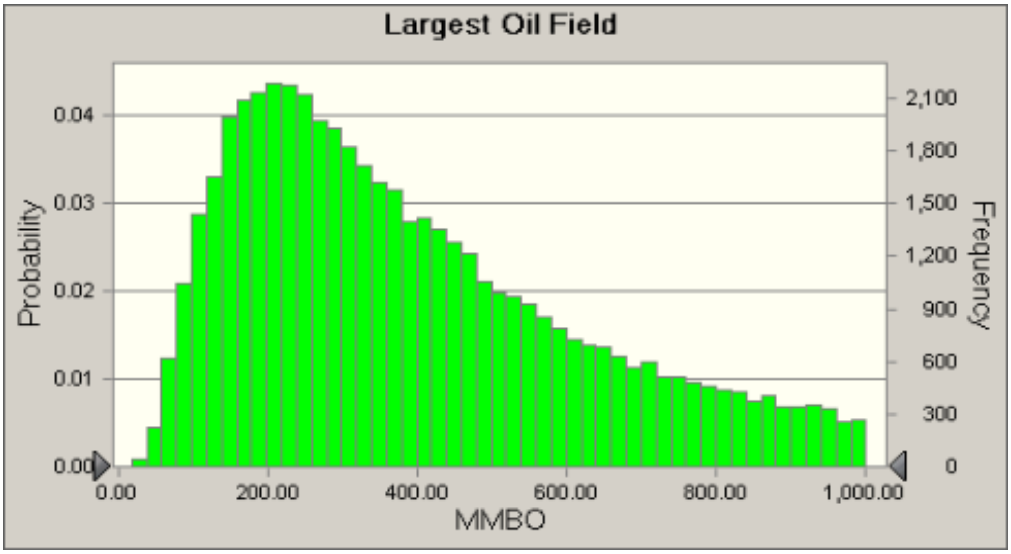
Statistics:	Forecast values
Trials	50,000
Mean	20.71
Median	17.60
Mode	---
Standard Deviation	13.20
Variance	174.13
Skewness	1.92
Kurtosis	10.37
Coefficient of Variability	0.6373
Minimum	0.19
Maximum	190.94
Range Width	190.75
Mean Standard Error	0.06

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.19
95%	6.05
90%	7.81
85%	9.14
80%	10.38
75%	11.55
70%	12.70
65%	13.87
60%	15.06
55%	16.29
50%	17.60
45%	18.99
40%	20.56
35%	22.25
30%	24.20
25%	26.46
20%	29.05
15%	32.37
10%	37.23
5%	45.65
0%	190.94

Forecast: Largest Oil Field

Summary:
Entire range is from 15.76 to 999.97
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.01



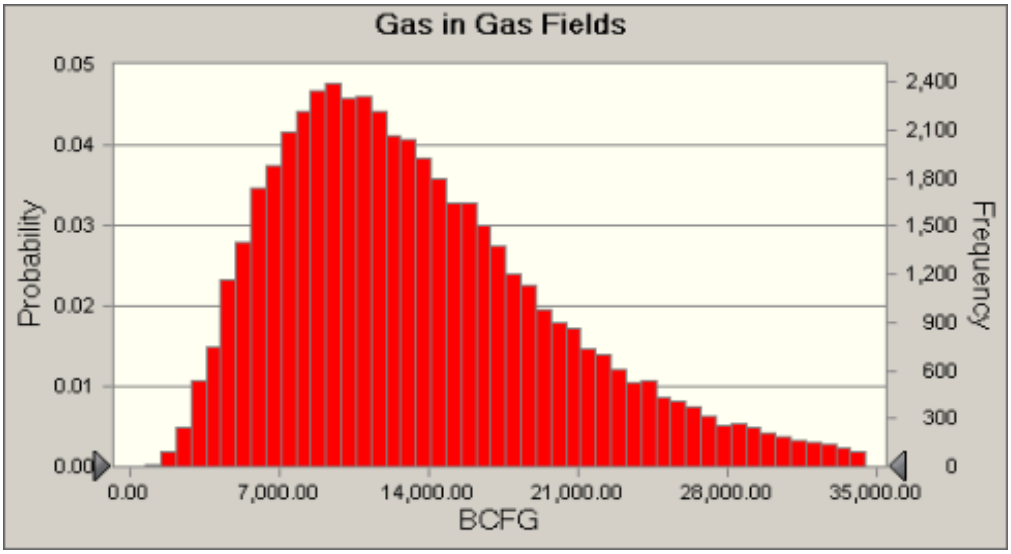
Statistics:	Forecast values
Trials	50,000
Mean	387.29
Median	335.21
Mode	---
Standard Deviation	226.42
Variance	51,265.36
Skewness	0.7696
Kurtosis	2.77
Coefficient of Variability	0.5846
Minimum	15.76
Maximum	999.97
Range Width	984.21
Mean Standard Error	1.01

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	15.76
95%	104.60
90%	135.82
85%	161.37
80%	185.24
75%	207.94
70%	231.08
65%	254.70
60%	280.01
55%	306.75
50%	335.20
45%	366.05
40%	400.55
35%	437.16
30%	477.10
25%	526.71
20%	582.35
15%	651.54
10%	737.74
5%	848.21
0%	999.97

Forecast: Gas in Gas Fields

Summary:
Entire range is from 28.55 to 67,139.16
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 32.91



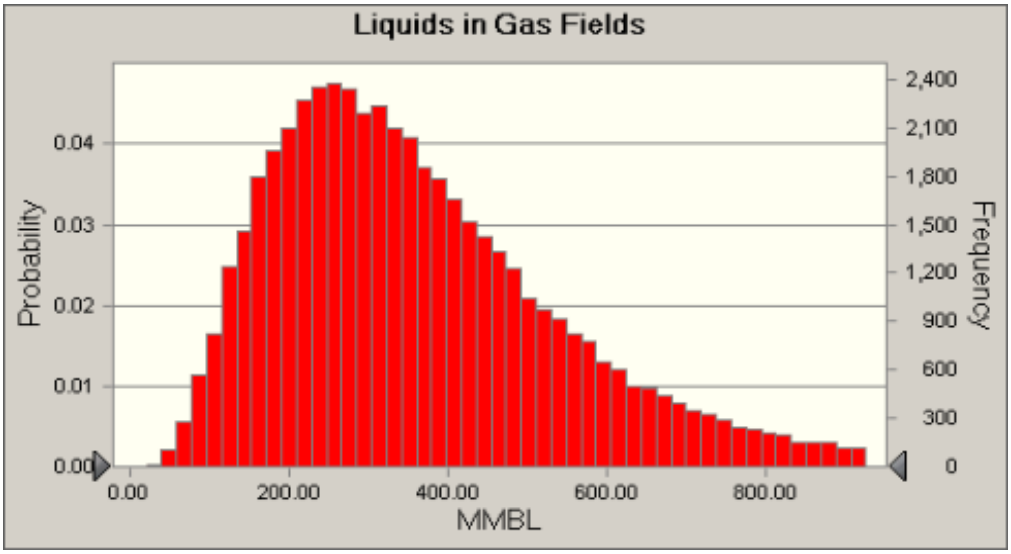
Statistics:	Forecast values
Trials	50,000
Mean	13,881.98
Median	12,442.86
Mode	---
Standard Deviation	7,358.77
Variance	54,151,423.08
Skewness	1.27
Kurtosis	5.46
Coefficient of Variability	0.5301
Minimum	28.55
Maximum	67,139.16
Range Width	67,110.62
Mean Standard Error	32.91

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	28.55
95%	4,786.43
90%	6,005.19
85%	6,949.24
80%	7,800.74
75%	8,597.65
70%	9,325.23
65%	10,076.59
60%	10,834.58
55%	11,629.94
50%	12,442.69
45%	13,302.01
40%	14,222.90
35%	15,230.28
30%	16,312.37
25%	17,550.44
20%	19,062.06
15%	20,975.08
10%	23,555.15
5%	28,001.65
0%	67,139.16

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 0.76 to 1,796.06
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.89



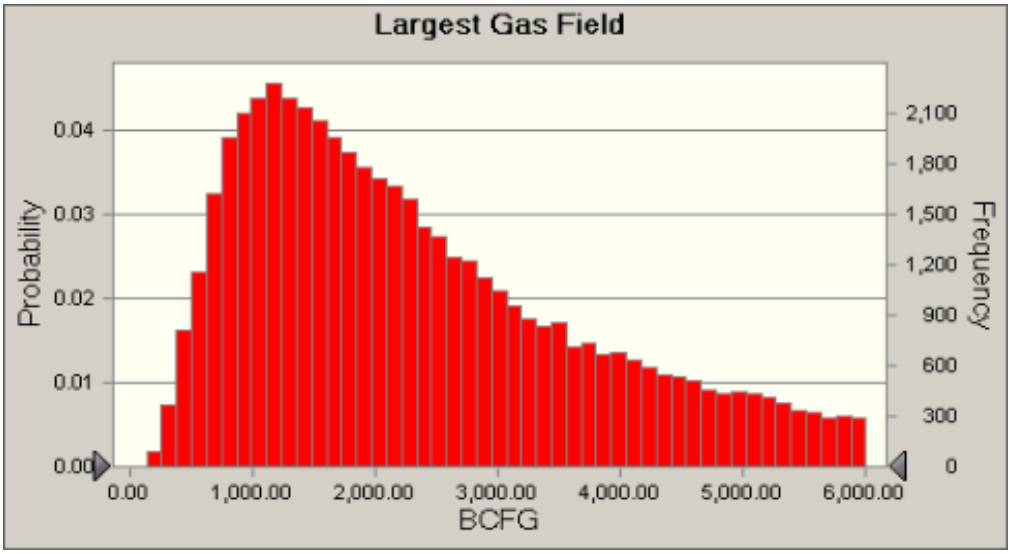
Statistics:	Forecast values
Trials	50,000
Mean	369.86
Median	330.07
Mode	---
Standard Deviation	199.01
Variance	39,604.47
Skewness	1.29
Kurtosis	5.58
Coefficient of Variability	0.5381
Minimum	0.76
Maximum	1,796.06
Range Width	1,795.29
Mean Standard Error	0.89

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	0.76
95%	125.32
90%	157.73
85%	182.96
80%	205.74
75%	226.72
70%	246.96
65%	266.76
60%	286.91
55%	308.21
50%	330.05
45%	353.57
40%	378.03
35%	404.86
30%	435.14
25%	469.21
20%	510.27
15%	562.02
10%	632.80
5%	751.02
0%	1,796.06

Forecast: Largest Gas Field

Summary:
Entire range is from 15.97 to 5,999.97
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.09



Statistics:	Forecast values
Trials	50,000
Mean	2,320.54
Median	2,008.43
Mode	---
Standard Deviation	1,362.59
Variance	1,856,657.97
Skewness	0.7722
Kurtosis	2.76
Coefficient of Variability	0.5872
Minimum	15.97
Maximum	5,999.97
Range Width	5,984.00
Mean Standard Error	6.09

Forecast: Largest Gas Field (continued)

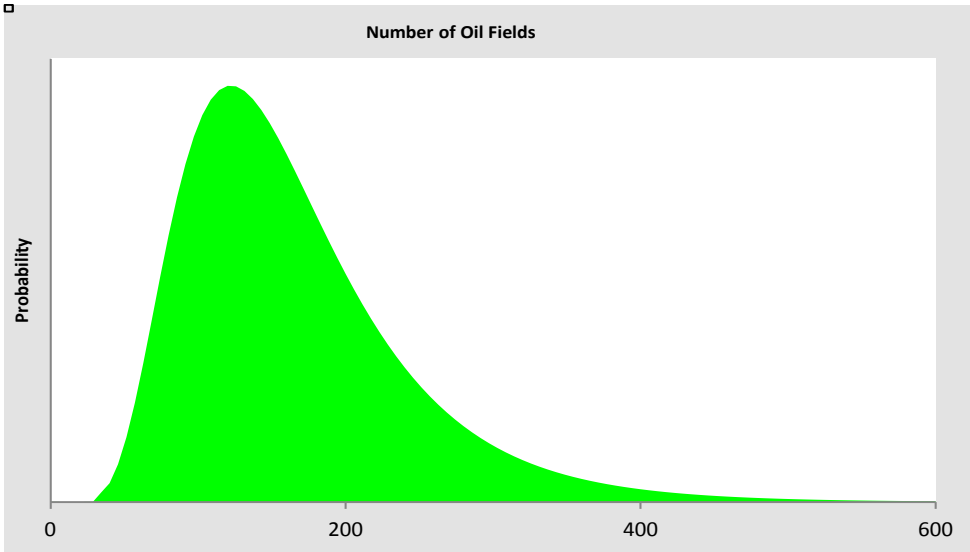
Percentiles:	BCFG
100%	15.97
95%	634.10
90%	811.70
85%	960.76
80%	1,100.78
75%	1,236.31
70%	1,375.60
65%	1,519.90
60%	1,674.73
55%	1,835.46
50%	2,008.38
45%	2,189.18
40%	2,387.42
35%	2,608.68
30%	2,862.01
25%	3,156.13
20%	3,506.89
15%	3,933.17
10%	4,436.49
5%	5,092.61
0%	5,999.97

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	164.90	165.9
Standard Deviation	78.17	78.17
Selected range is from -Infinity to 599.00		1.00 to 600.00



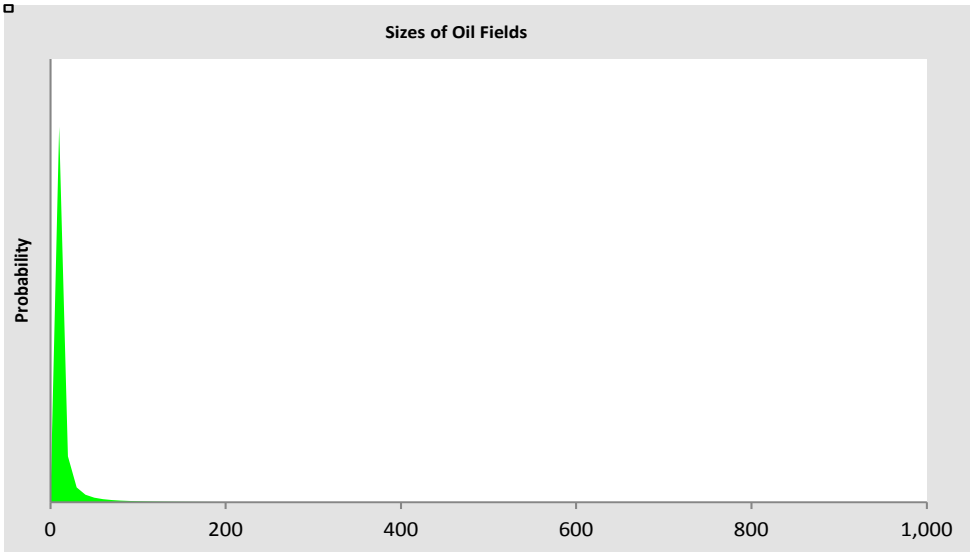
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	165.31	165.38
Median	150.03	149.92
Mode	---	---
Standard Deviation	76.20	76.42
Variance	5,805.69	5,839.93
Skewness	1.32	1.31
Kurtosis	5.56	5.54
Coefficient of Variability	0.4609	0.4621
Minimum	22.71	1.00
Maximum	597.83	600.00
Range Width	575.11	599.00
Mean Standard Error	0.34	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	22.71	1.00
95%	72.43	72.03
90%	84.84	84.65
85%	94.46	94.41
80%	103.08	102.97
75%	111.05	110.94
70%	118.55	118.62
65%	126.34	126.21
60%	134.01	133.87
55%	141.84	141.73
50%	150.02	149.92
45%	158.54	158.57
40%	167.86	167.89
35%	178.07	178.09
30%	189.69	189.51
25%	202.30	202.66
20%	217.62	218.37
15%	237.42	238.22
10%	265.24	265.72
5%	310.88	312.20
0%	597.83	600.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	15.10	16.1
Standard Deviation	113.06	113.06
Selected range is from -Infinity to 999.00		1.00 to 1,000.00



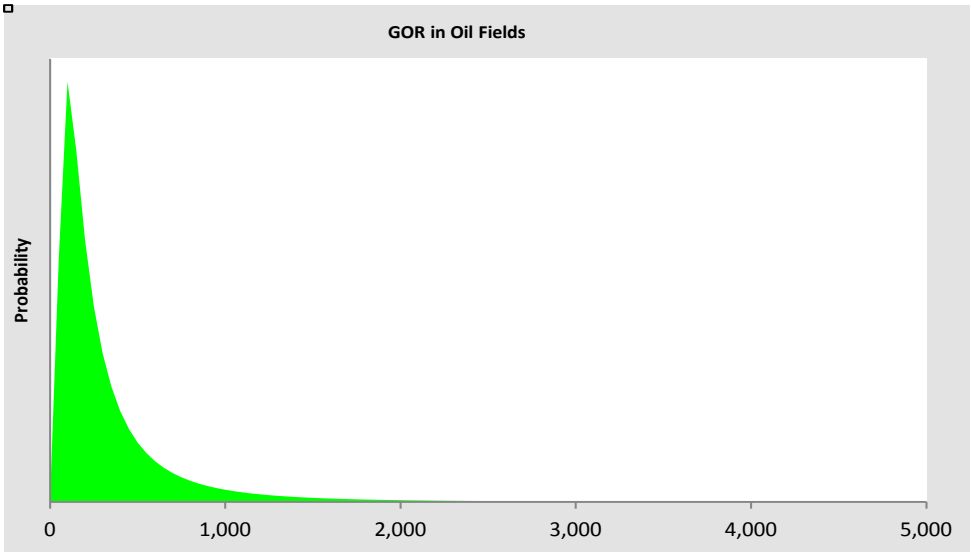
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	13.95	14.45
Median	2.96	2.99
Mode	---	---
Standard Deviation	46.71	45.92
Variance	2,182.17	2,108.99
Skewness	9.88	9.84
Kurtosis	134.06	134.63
Coefficient of Variability	3.35	3.18
Minimum	1.00	1.00
Maximum	987.08	1,000.00
Range Width	986.08	999.00
Mean Standard Error	0.21	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.00	1.00
95%	1.07	1.07
90%	1.15	1.15
85%	1.24	1.25
80%	1.35	1.37
75%	1.50	1.51
70%	1.68	1.70
65%	1.89	1.92
60%	2.17	2.20
55%	2.51	2.55
50%	2.96	2.99
45%	3.53	3.57
40%	4.26	4.32
35%	5.24	5.33
30%	6.59	6.72
25%	8.60	8.73
20%	11.62	11.80
15%	16.66	16.96
10%	26.53	27.05
5%	53.80	54.64
0%	987.08	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	308.71	338.71
Standard Deviation	467.96	467.96
Selected range is from -Infinity to 4,970.00		30.00 to 5,000.00



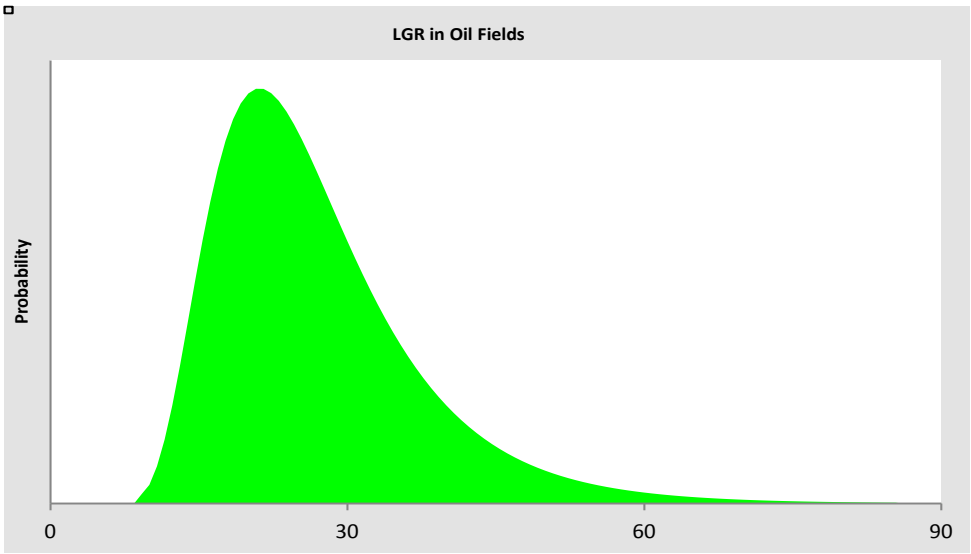
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	328.90	331.95
Median	198.41	199.77
Mode	---	---
Standard Deviation	401.77	407.42
Variance	161,419.98	165,991.61
Skewness	4.00	4.02
Kurtosis	26.99	27.07
Coefficient of Variability	1.22	1.23
Minimum	32.25	30.00
Maximum	4,986.96	5,000.00
Range Width	4,954.71	4,970.00
Mean Standard Error	1.80	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	32.25	30.00
95%	58.48	58.18
90%	72.29	71.90
85%	84.99	84.76
80%	97.71	97.74
75%	110.85	111.30
70%	125.25	125.78
65%	140.65	141.48
60%	158.11	158.76
55%	176.62	178.01
50%	198.40	199.77
45%	223.70	224.72
40%	251.44	253.82
35%	285.25	288.47
30%	329.06	330.80
25%	380.70	384.25
20%	449.82	454.97
15%	547.99	555.30
10%	707.52	715.48
5%	1,035.00	1,044.92
0%	4,986.96	5,000.00

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



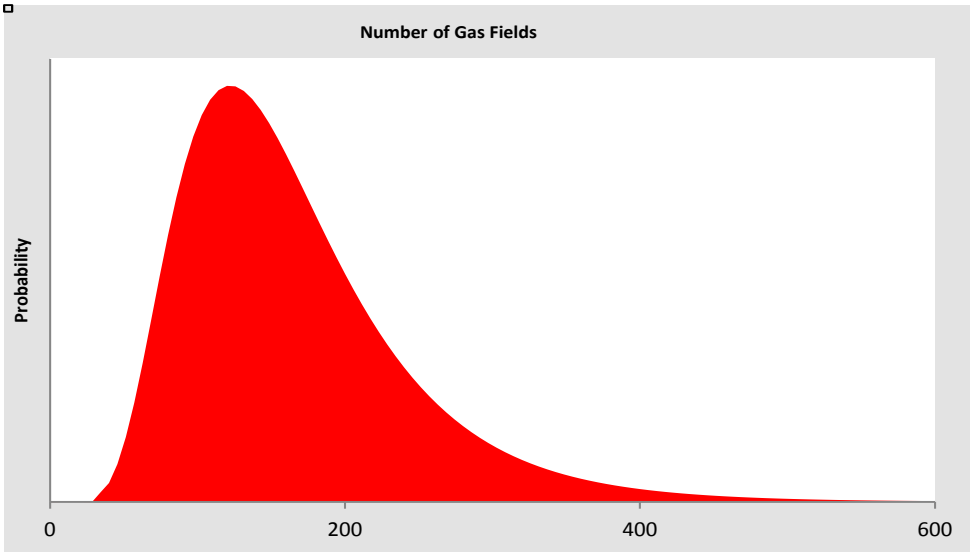
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.11	27.05
Median	25.05	24.99
Mode	---	---
Standard Deviation	10.22	10.21
Variance	104.48	104.25
Skewness	1.30	1.31
Kurtosis	5.47	5.52
Coefficient of Variability	0.3771	0.3775
Minimum	8.46	5.00
Maximum	84.71	85.00
Range Width	76.26	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.46	5.00
95%	14.58	14.56
90%	16.30	16.25
85%	17.63	17.56
80%	18.73	18.71
75%	19.83	19.77
70%	20.86	20.80
65%	21.84	21.82
60%	22.90	22.84
55%	23.96	23.89
50%	25.05	24.99
45%	26.22	26.15
40%	27.47	27.39
35%	28.82	28.76
30%	30.34	30.28
25%	32.05	32.04
20%	34.16	34.14
15%	36.85	36.79
10%	40.57	40.46
5%	46.89	46.66
0%	84.71	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	164.90	165.9
Standard Deviation	78.17	78.17
Selected range is from -Infinity to 599.00		1.00 to 600.00



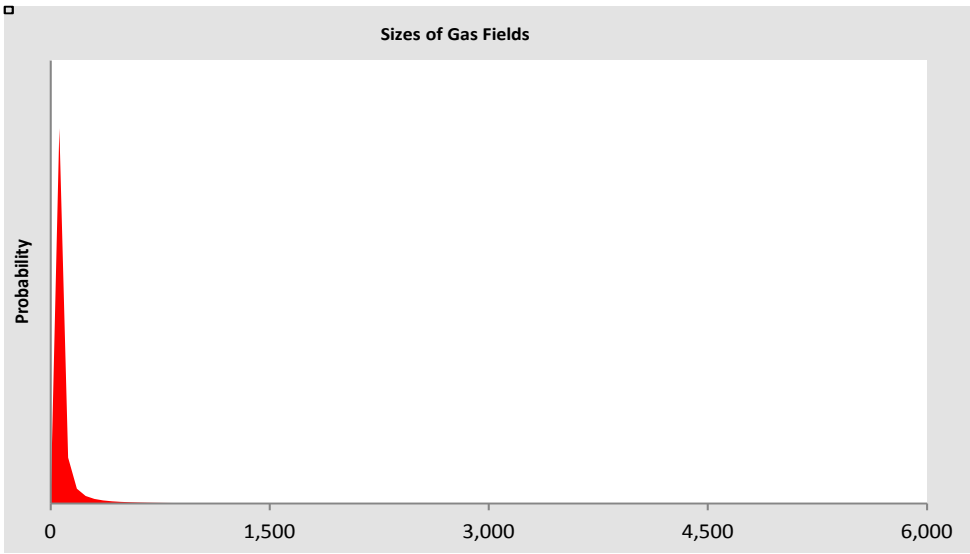
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	165.18	165.38
Median	149.43	149.92
Mode	---	---
Standard Deviation	76.39	76.42
Variance	5,835.37	5,839.93
Skewness	1.30	1.31
Kurtosis	5.48	5.54
Coefficient of Variability	0.4625	0.4621
Minimum	20.82	1.00
Maximum	599.38	600.00
Range Width	578.55	599.00
Mean Standard Error	0.34	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	20.82	1.00
95%	71.75	72.03
90%	84.61	84.65
85%	94.11	94.41
80%	102.77	102.97
75%	110.60	110.94
70%	118.46	118.62
65%	126.06	126.21
60%	133.52	133.87
55%	141.31	141.73
50%	149.43	149.92
45%	158.48	158.57
40%	167.94	167.89
35%	177.86	178.09
30%	189.41	189.51
25%	202.50	202.66
20%	218.15	218.37
15%	238.48	238.22
10%	266.04	265.72
5%	312.09	312.20
0%	599.38	600.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	90.62	96.62
Standard Deviation	678.36	678.36
Selected range is from -Infinity to 5,994.00		6.00 to 6,000.00



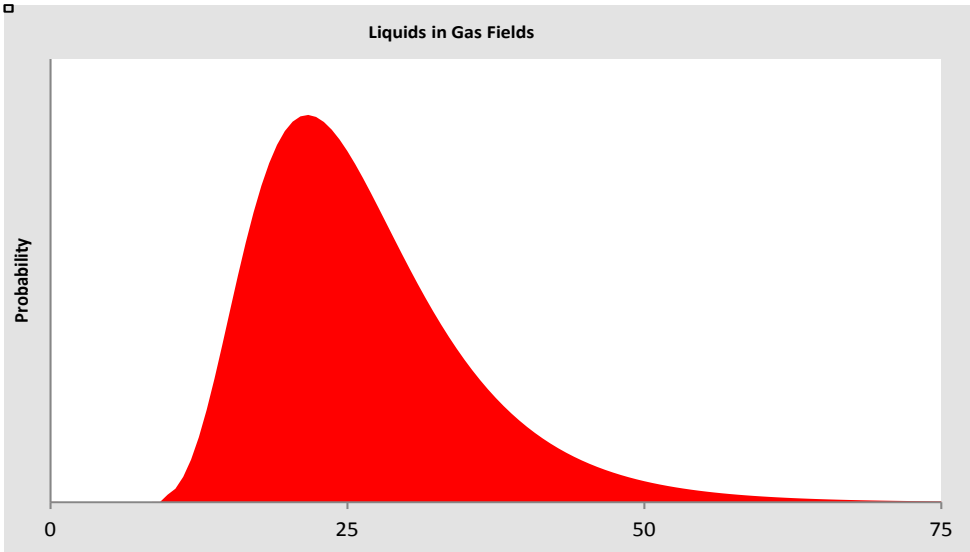
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	82.47	86.72
Median	18.07	17.97
Mode	---	---
Standard Deviation	263.78	275.54
Variance	69,578.25	75,923.76
Skewness	9.80	9.84
Kurtosis	138.13	134.63
Coefficient of Variability	3.20	3.18
Minimum	6.00	6.00
Maximum	5,999.20	6,000.00
Range Width	5,993.19	5,994.00
Mean Standard Error	1.18	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.00	6.00
95%	6.45	6.44
90%	6.92	6.91
85%	7.53	7.49
80%	8.29	8.21
75%	9.15	9.09
70%	10.25	10.17
65%	11.66	11.52
60%	13.36	13.19
55%	15.41	15.30
50%	18.07	17.97
45%	21.45	21.41
40%	26.01	25.91
35%	31.89	31.95
30%	40.28	40.31
25%	52.51	52.36
20%	71.01	70.82
15%	101.87	101.75
10%	163.59	162.28
5%	324.67	327.86
0%	5,999.20	6,000.00

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	26.67	26.66
Median	24.99	24.99
Mode	---	---
Standard Deviation	9.04	9.00
Variance	81.71	80.97
Skewness	1.15	1.17
Kurtosis	4.89	4.99
Coefficient of Variability	0.3389	0.3376
Minimum	8.68	5.00
Maximum	74.65	75.00
Range Width	65.98	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.68	5.00
95%	15.24	15.26
90%	16.86	16.89
85%	18.12	18.13
80%	19.19	19.21
75%	20.18	20.21
70%	21.13	21.16
65%	22.06	22.10
60%	23.02	23.04
55%	23.99	24.00
50%	24.99	24.99
45%	26.00	26.03
40%	27.14	27.15
35%	28.38	28.36
30%	29.78	29.72
25%	31.34	31.26
20%	33.24	33.10
15%	35.53	35.40
10%	38.63	38.56
5%	43.97	43.82
0%	74.65	75.00

End of Assumptions

Oil field simulation:
Simulation started on 8/23/2010 at 7:10 PM
Simulation stopped on 8/24/2010 at 12:25 PM

Gas field simulation:
Simulation started on 8/12/2010 at 3:55 AM
Simulation stopped on 8/12/2010 at 5:13 PM