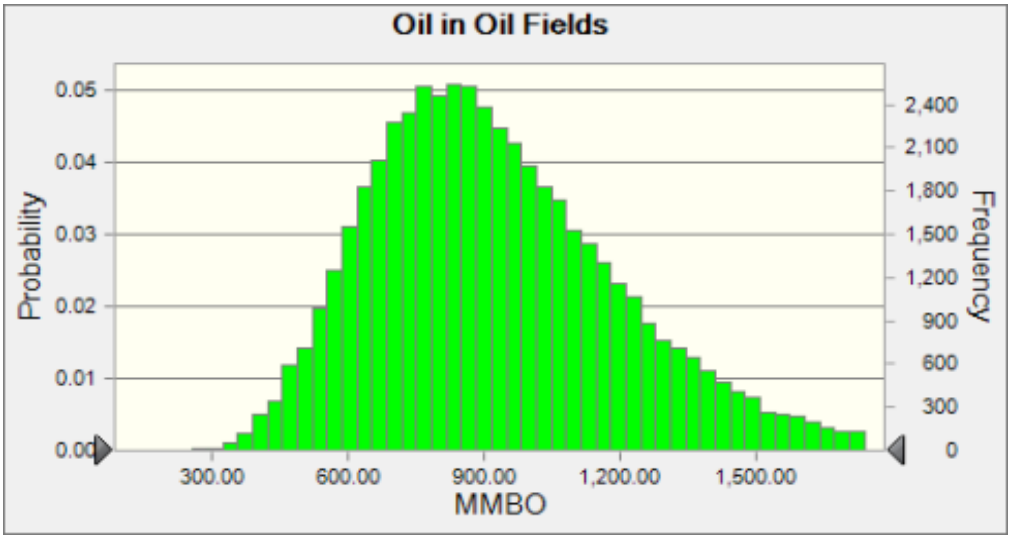
53100101
Chiapas-Peten Basin Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 43.84 to 2,455.88
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.29



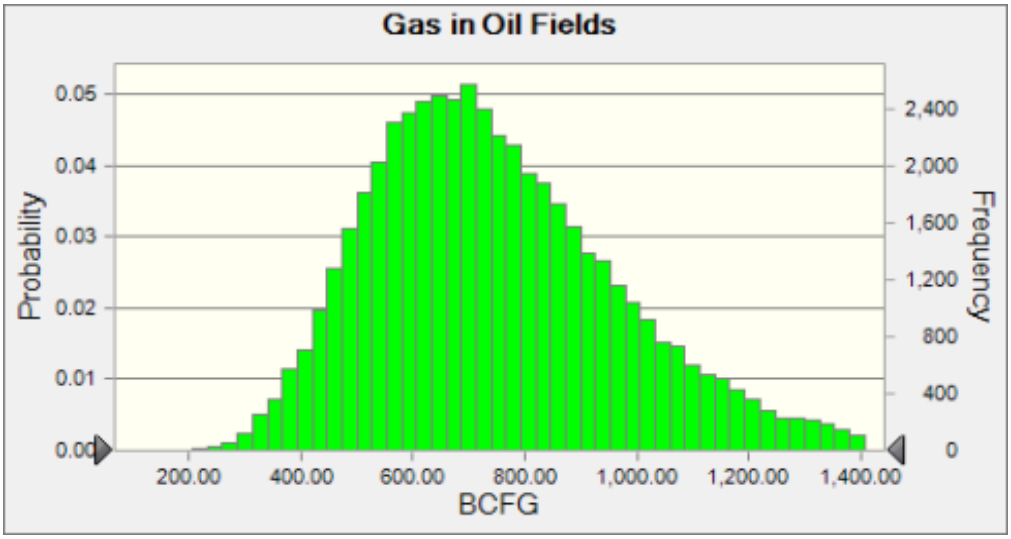
Statistics:	Forecast values
Trials	50,000
Mean	933.16
Median	891.52
Mode	---
Standard Deviation	287.92
Variance	82,896.61
Skewness	0.8122
Kurtosis	3.91
Coefficient of Variability	0.3085
Minimum	43.84
Maximum	2,455.88
Range Width	2,412.04
Mean Standard Error	1.29

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	43.84
95%	536.43
90%	601.86
85%	649.41
80%	690.17
75%	726.09
70%	760.51
65%	793.83
60%	827.00
55%	859.29
50%	891.51
45%	927.42
40%	964.41
35%	1,004.67
30%	1,049.43
25%	1,098.47
20%	1,155.92
15%	1,224.89
10%	1,319.08
5%	1,465.32
0%	2,455.88

Forecast: Gas in Oil Fields

Summary:
Entire range is from 36.03 to 1,944.84
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.04



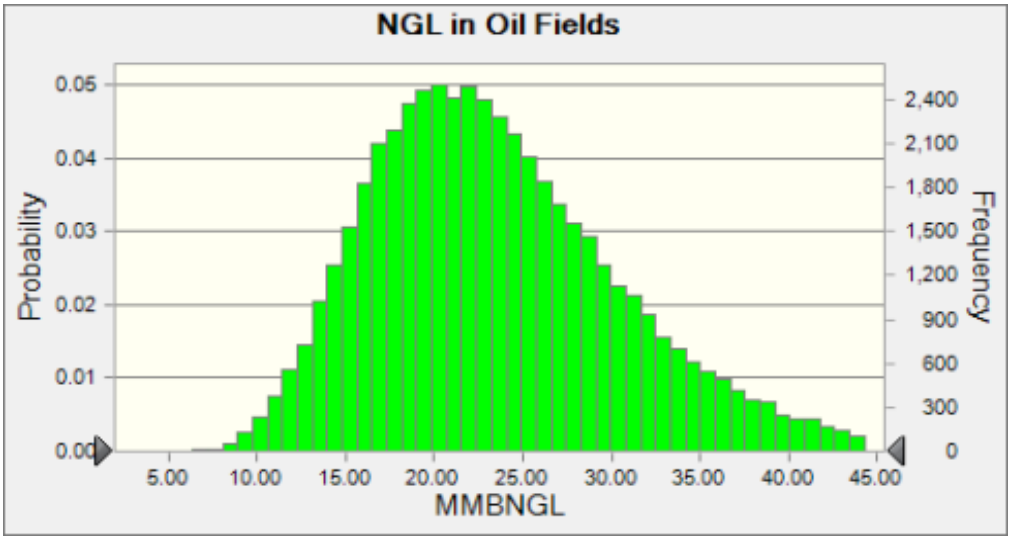
Statistics:	Forecast values
Trials	50,000
Mean	753.06
Median	719.93
Mode	---
Standard Deviation	232.77
Variance	54,180.42
Skewness	0.8113
Kurtosis	3.91
Coefficient of Variability	0.3091
Minimum	36.03
Maximum	1,944.84
Range Width	1,908.81
Mean Standard Error	1.04

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	36.03
95%	432.17
90%	485.03
85%	523.87
80%	556.65
75%	585.45
70%	613.08
65%	640.46
60%	667.33
55%	693.28
50%	719.92
45%	748.30
40%	778.61
35%	811.30
30%	846.99
25%	886.46
20%	933.44
15%	988.51
10%	1,064.72
5%	1,183.54
0%	1,944.84

Forecast: NGL in Oil Fields

Summary:
Entire range is from 1.21 to 61.84
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.03



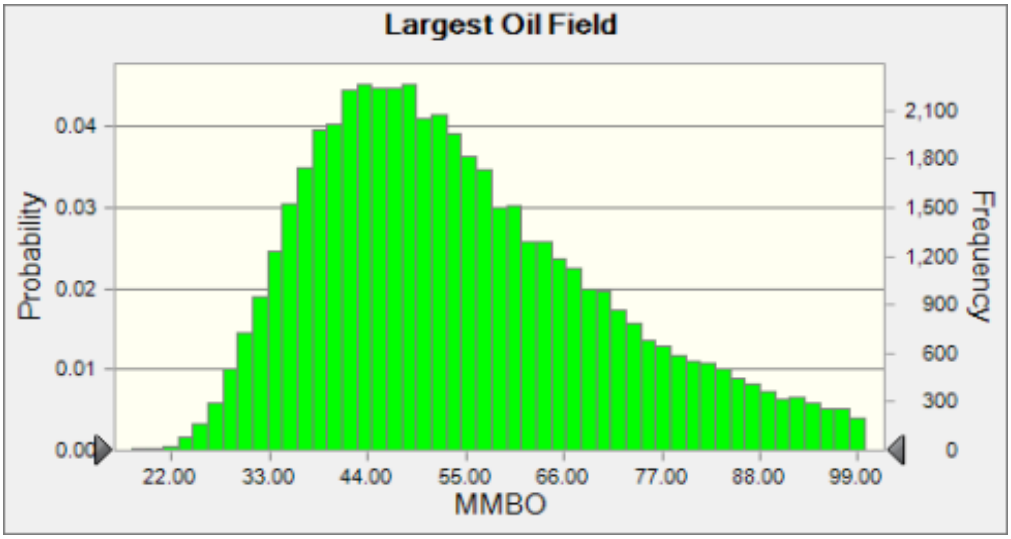
Statistics:	Forecast values
Trials	50,000
Mean	23.63
Median	22.62
Mode	---
Standard Deviation	7.37
Variance	54.39
Skewness	0.8091
Kurtosis	3.91
Coefficient of Variability	0.3121
Minimum	1.21
Maximum	61.84
Range Width	60.64
Mean Standard Error	0.03

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	1.21
95%	13.45
90%	15.12
85%	16.37
80%	17.38
75%	18.31
70%	19.19
65%	20.06
60%	20.89
55%	21.76
50%	22.62
45%	23.50
40%	24.46
35%	25.46
30%	26.59
25%	27.89
20%	29.30
15%	31.14
10%	33.51
5%	37.32
0%	61.84

Forecast: Largest Oil Field

Summary:
Entire range is from 17.66 to 100.00
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	54.30
Median	51.55
Mode	---
Standard Deviation	16.22
Variance	262.93
Skewness	0.6443
Kurtosis	2.84
Coefficient of Variability	0.2986
Minimum	17.66
Maximum	100.00
Range Width	82.34
Mean Standard Error	0.07

Forecast: Largest Oil Field (continued)

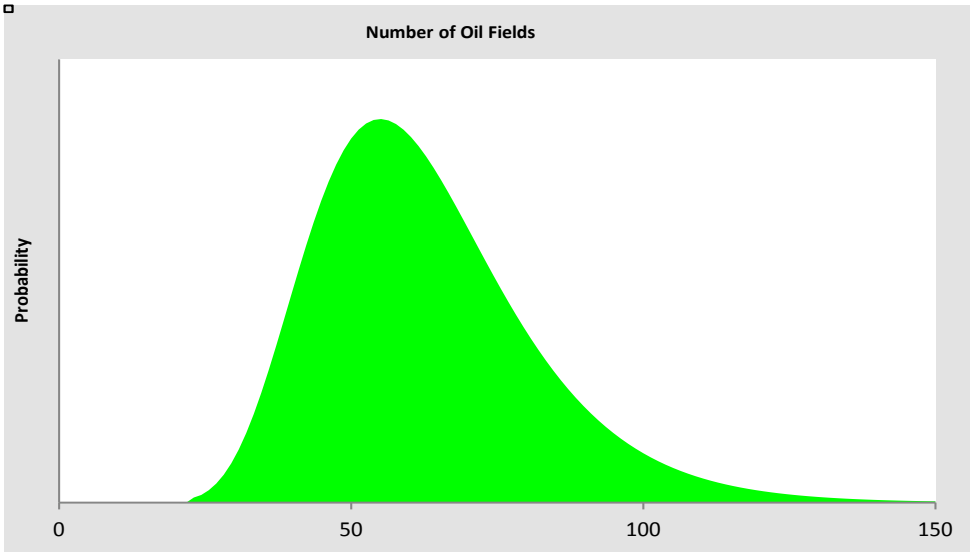
Percentiles:	MMBO
100%	17.66
95%	32.26
90%	35.52
85%	37.97
80%	40.06
75%	42.05
70%	43.89
65%	45.75
60%	47.65
55%	49.50
50%	51.55
45%	53.58
40%	55.84
35%	58.32
30%	61.11
25%	64.32
20%	67.94
15%	72.30
10%	78.15
5%	86.18
0%	100.00

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	61.71	62.71
Standard Deviation	18.93	18.93
Selected range is from -Infinity to 149.00		1.00 to 150.00



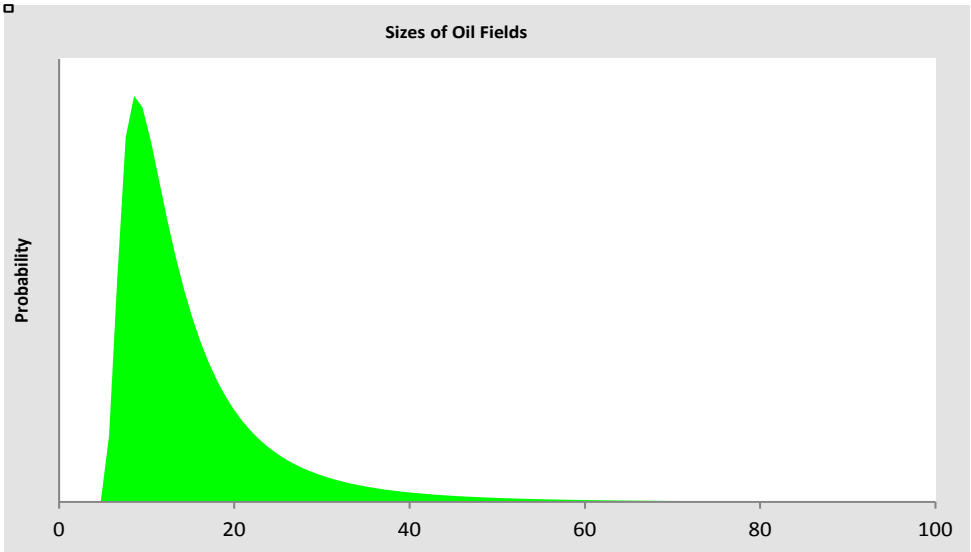
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	62.73	62.61
Median	60.04	59.98
Mode	---	---
Standard Deviation	18.69	18.66
Variance	349.38	348.20
Skewness	0.8317	0.8402
Kurtosis	3.94	3.97
Coefficient of Variability	0.2980	0.2980
Minimum	17.27	1.00
Maximum	149.73	150.00
Range Width	132.46	149.00
Mean Standard Error	0.08	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	17.27	1.00
95%	37.09	37.03
90%	41.29	41.17
85%	44.33	44.23
80%	46.95	46.83
75%	49.33	49.19
70%	51.51	51.40
65%	53.60	53.55
60%	55.70	55.67
55%	57.92	57.80
50%	60.03	59.98
45%	62.34	62.24
40%	64.73	64.63
35%	67.29	67.19
30%	70.15	70.00
25%	73.41	73.17
20%	77.09	76.87
15%	81.66	81.41
10%	87.79	87.51
5%	97.44	97.35
0%	149.73	150.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	9.99	14.99
Standard Deviation	10.19	10.19
Selected range is from -Infinity to 95.00		5.00 to 100.00



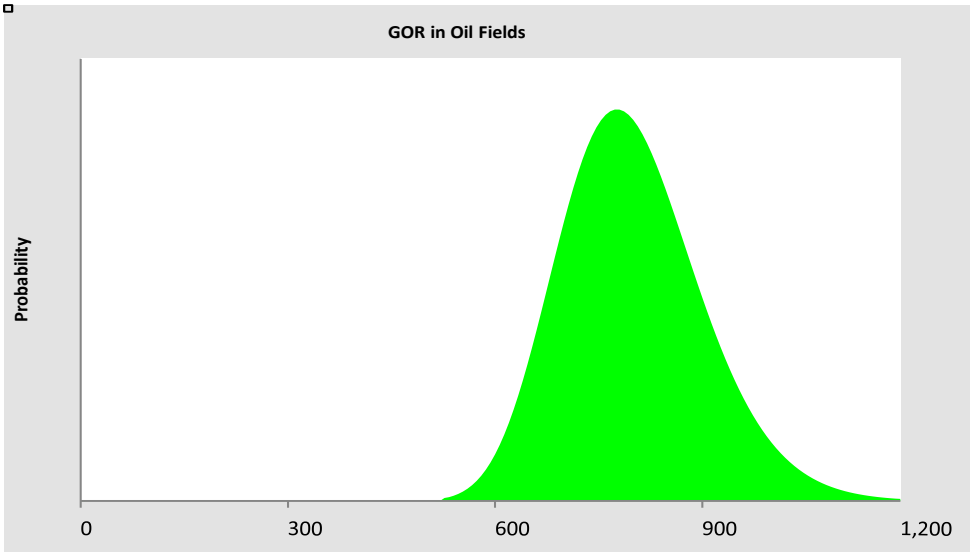
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	14.88	14.88
Median	12.01	11.99
Mode	---	---
Standard Deviation	9.47	9.48
Variance	89.61	89.84
Skewness	2.85	2.82
Kurtosis	15.39	14.98
Coefficient of Variability	0.6363	0.6369
Minimum	5.22	5.00
Maximum	99.97	100.00
Range Width	94.76	95.00
Mean Standard Error	0.04	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.22	5.00
95%	6.73	6.75
90%	7.37	7.37
85%	7.92	7.92
80%	8.45	8.44
75%	8.96	8.96
70%	9.51	9.49
65%	10.08	10.05
60%	10.67	10.65
55%	11.30	11.29
50%	12.01	11.99
45%	12.79	12.77
40%	13.65	13.66
35%	14.68	14.68
30%	15.86	15.88
25%	17.33	17.34
20%	19.17	19.21
15%	21.80	21.74
10%	25.51	25.56
5%	32.75	32.84
0%	99.97	100.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	707.53	807.53
Standard Deviation	104.05	104.05
Selected range is from -Infinity to 1,100.00		100.00 to 1,200.00



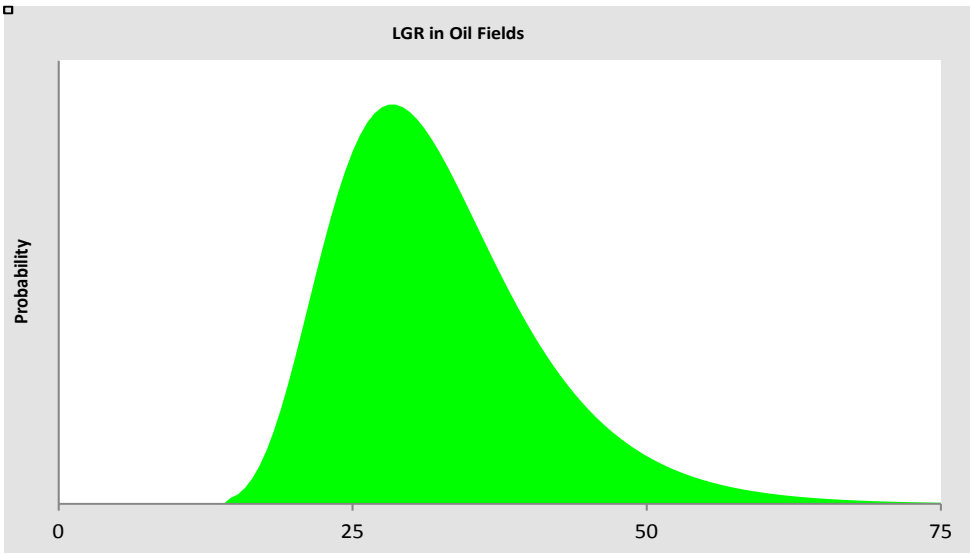
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	807.54	807.09
Median	800.68	799.87
Mode	---	---
Standard Deviation	103.83	103.16
Variance	10,780.13	10,642.65
Skewness	0.3853	0.3894
Kurtosis	3.13	3.13
Coefficient of Variability	0.1286	0.1278
Minimum	470.50	100.00
Maximum	1,198.92	1,200.00
Range Width	728.42	1,100.00
Mean Standard Error	0.46	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	470.50	100.00
95%	649.33	650.27
90%	679.24	680.30
85%	701.15	701.47
80%	718.74	718.85
75%	734.41	734.16
70%	748.31	748.23
65%	761.38	761.55
60%	774.38	774.43
55%	787.56	787.14
50%	800.67	799.87
45%	813.96	812.84
40%	827.27	826.26
35%	841.48	840.40
30%	856.53	855.58
25%	873.57	872.32
20%	892.69	891.37
15%	914.86	914.15
10%	944.83	943.69
5%	989.99	989.22
0%	1,198.92	1,200.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	26.43	31.43
Standard Deviation	9.06	9.06
Selected range is from -Infinity to 70.00		5.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.40	31.38
Median	30.04	29.99
Mode	---	---
Standard Deviation	8.87	8.91
Variance	78.68	79.47
Skewness	0.9219	0.9419
Kurtosis	4.20	4.25
Coefficient of Variability	0.2825	0.2841
Minimum	11.26	5.00
Maximum	74.81	75.00
Range Width	63.55	70.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.26	5.00
95%	19.48	19.45
90%	21.32	21.31
85%	22.71	22.70
80%	23.92	23.88
75%	24.99	24.96
70%	26.00	25.99
65%	26.97	26.98
60%	27.99	27.97
55%	29.00	28.97
50%	30.04	29.99
45%	31.09	31.06
40%	32.25	32.19
35%	33.49	33.41
30%	34.83	34.75
25%	36.36	36.28
20%	38.13	38.06
15%	40.30	40.27
10%	43.18	43.25
5%	47.96	48.12
0%	74.81	75.00

End of Assumptions

Simulation started on 2/1/2012 at 12:18 PM
Simulation stopped on 2/1/2012 at 12:23 PM