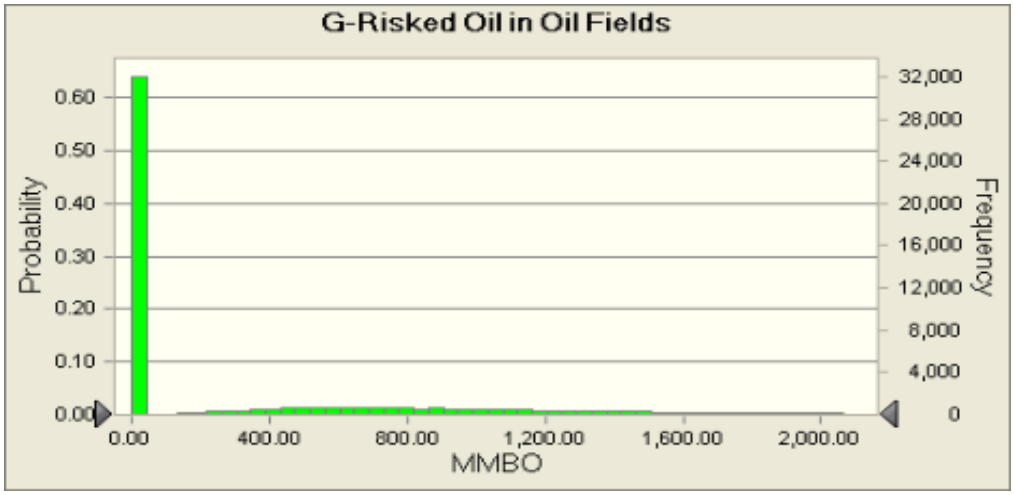
40120101
Barents Platform North
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 5,575.09
After 50,000 trials, the standard error of the mean is 2.78



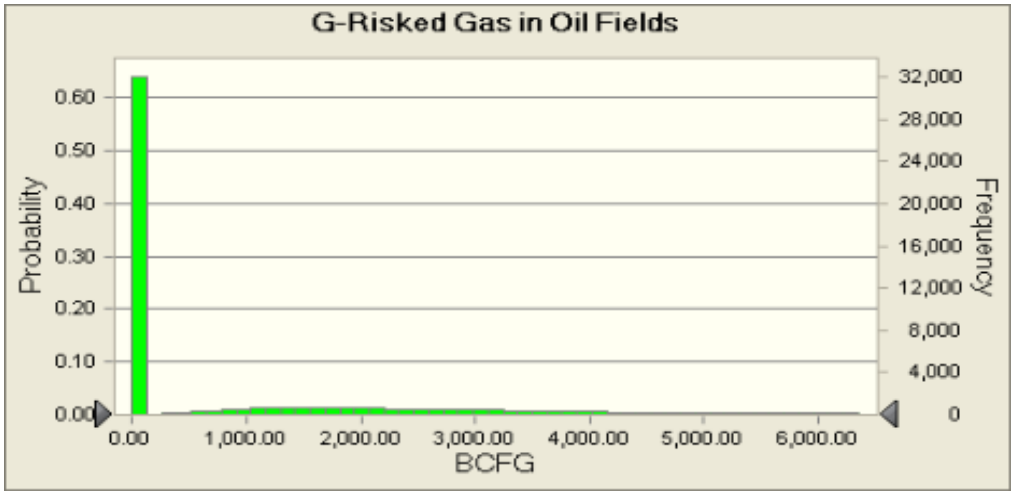
Statistics:	Forecast values
Trials	50,000
Mean	368.91
Median	0.00
Mode	0.00
Standard Deviation	620.79
Variance	385,383.62
Skewness	2.04
Kurtosis	7.94
Coefficient of Variability	1.68
Minimum	0.00
Maximum	5,575.09
Range Width	5,575.09
Mean Standard Error	2.78

Forecast: G-Risked Oil in Oil Fields (cont'd)

Percentiles:	MMBO
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	248.71
P30	477.00
P25	640.07
P20	803.16
P15	995.88
P10	1,253.62
P5	1,669.37
P0	5,575.09

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 20,717.19
After 50,000 trials, the standard error of the mean is 8.44



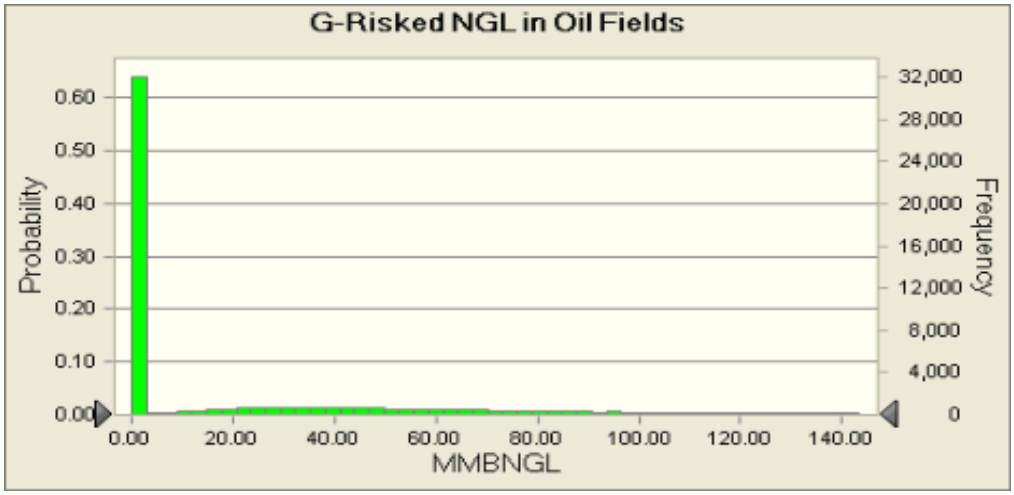
Statistics:	Forecast values
Trials	50,000
Mean	1,067.33
Median	0.00
Mode	0.00
Standard Deviation	1,887.33
Variance	3,562,000.68
Skewness	2.36
Kurtosis	10.26
Coefficient of Variability	1.77
Minimum	0.00
Maximum	20,717.19
Range Width	20,717.19
Mean Standard Error	8.44

Forecast: G-Risked Gas in Oil Fields (cont'd)

Percentiles:	BCFG
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	538.26
P30	1,205.51
P25	1,695.74
P20	2,214.73
P15	2,829.88
P10	3,658.39
P5	5,031.16
P0	20,717.19

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 521.28
After 50,000 trials, the standard error of the mean is 0.19



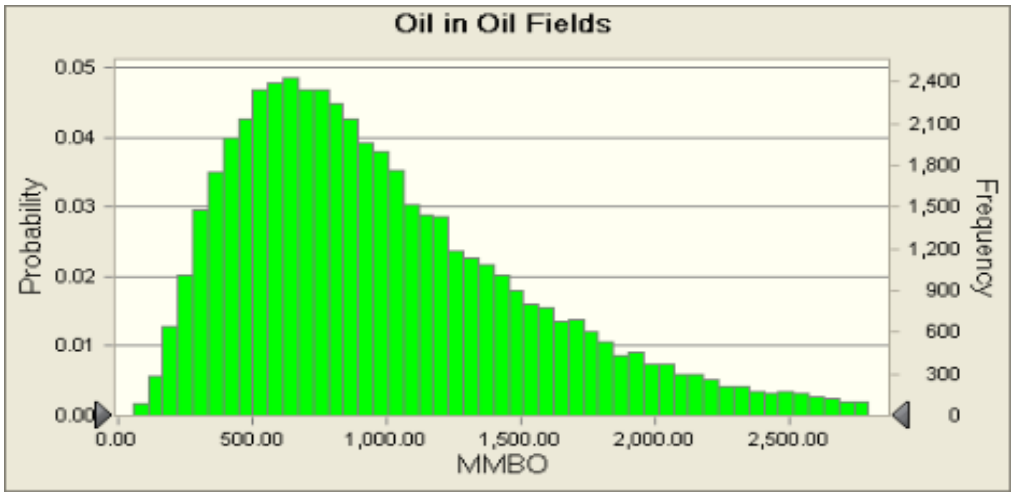
Statistics:	Forecast values
Trials	50,000
Mean	23.56
Median	0.00
Mode	0.00
Standard Deviation	42.71
Variance	1,823.80
Skewness	2.56
Kurtosis	12.12
Coefficient of Variability	1.81
Minimum	0.00
Maximum	521.28
Range Width	521.28
Mean Standard Error	0.19

Forecast: G-Risked NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	10.77
P30	25.04
P25	36.25
P20	47.86
P15	62.07
P10	80.49
P5	112.81
P0	521.28

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 54.95 to 6,060.14
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.83



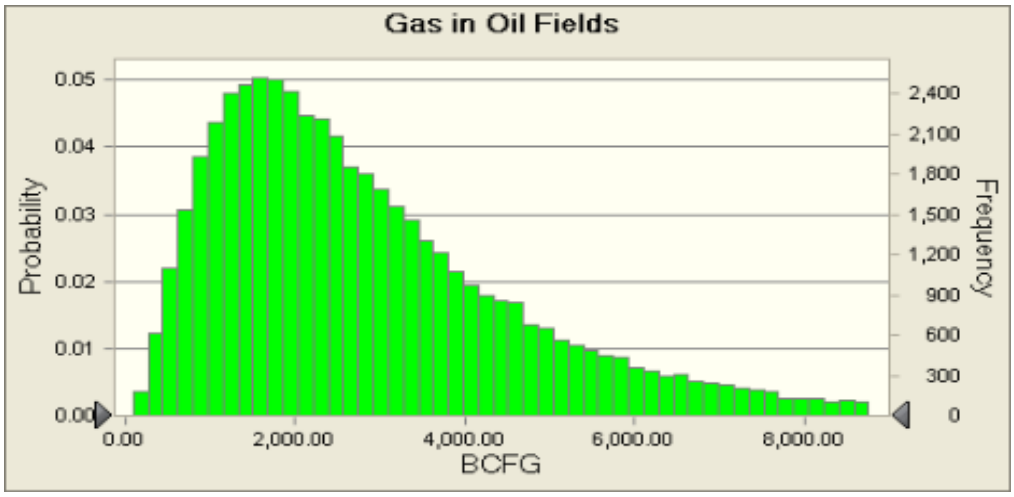
Statistics:	Forecast values
Trials	50,000
Mean	1,024.99
Median	878.20
Mode	---
Standard Deviation	632.22
Variance	399,703.48
Skewness	1.54
Kurtosis	6.59
Coefficient of Variability	0.6168
Minimum	54.95
Maximum	6,060.14
Range Width	6,005.19
Mean Standard Error	2.83

Forecast: Conditional Oil in Oil Fields (cont'd)

Percentiles:	MMBO
P100	54.95
P95	299.13
P90	383.51
P85	453.29
P80	518.05
P75	576.67
P70	634.23
P65	691.98
P60	751.73
P55	812.33
P50	878.20
P45	947.21
P40	1,022.36
P35	1,107.65
P30	1,203.63
P25	1,316.76
P20	1,450.68
P15	1,619.36
P10	1,843.55
P5	2,245.13
P0	6,060.14

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 83.83 to 20,717.19
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 9.26



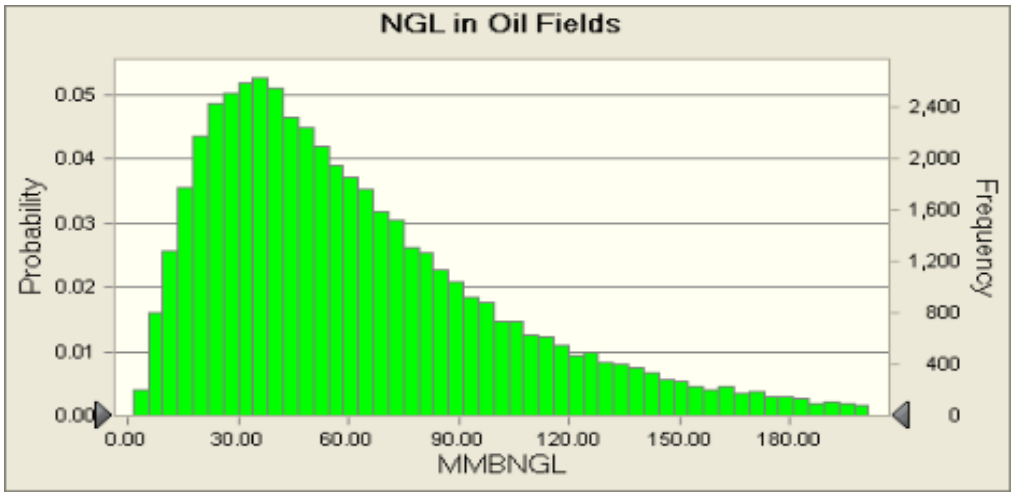
Statistics:	Forecast values
Trials	50,000
Mean	2,963.54
Median	2,449.46
Mode	---
Standard Deviation	2,070.53
Variance	4,287,090.22
Skewness	1.73
Kurtosis	7.69
Coefficient of Variability	0.6987
Minimum	83.83
Maximum	20,717.19
Range Width	20,633.37
Mean Standard Error	9.26

Forecast: Conditional Gas in Oil Fields (cont'd)

Percentiles:	BCFG
P100	83.83
P95	692.34
P90	939.86
P85	1,143.58
P80	1,327.57
P75	1,507.21
P70	1,682.52
P65	1,859.61
P60	2,043.39
P55	2,240.63
P50	2,449.42
P45	2,669.60
P40	2,915.74
P35	3,187.78
P30	3,484.79
P25	3,846.92
P20	4,293.88
P15	4,850.74
P10	5,658.34
P5	7,006.27
P0	20,717.19

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 1.15 to 625.80
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.22



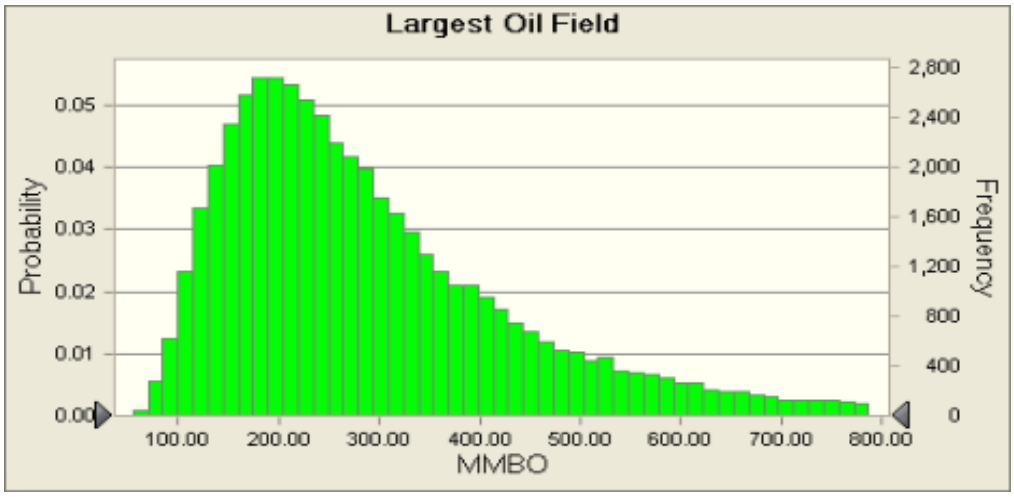
Statistics:	Forecast values
Trials	50,000
Mean	65.51
Median	53.01
Mode	---
Standard Deviation	48.59
Variance	2,361.07
Skewness	1.97
Kurtosis	9.86
Coefficient of Variability	0.7418
Minimum	1.15
Maximum	625.80
Range Width	624.65
Mean Standard Error	0.22

Forecast: Conditional NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
P100	1.15
P95	14.06
P90	19.36
P85	23.86
P80	27.93
P75	31.87
P70	35.82
P65	39.76
P60	43.85
P55	48.40
P50	53.01
P45	58.25
P40	63.81
P35	69.89
P30	76.96
P25	85.08
P20	95.28
P15	108.72
P10	127.20
P5	159.50
P0	625.80

Forecast: Largest Oil Field

Summary:
Entire range is from 54.95 to 1,199.45
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.77



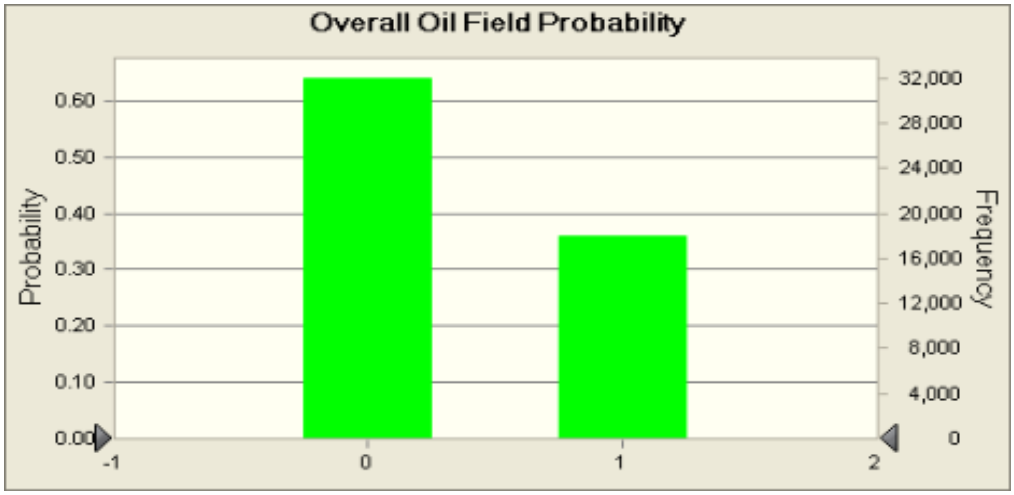
Statistics:	Forecast values
Trials	50,000
Mean	302.80
Median	257.02
Mode	---
Standard Deviation	172.87
Variance	29,884.48
Skewness	1.73
Kurtosis	6.84
Coefficient of Variability	0.5709
Minimum	54.95
Maximum	1,199.45
Range Width	1,144.50
Mean Standard Error	0.77

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	54.95
P95	118.79
P90	139.01
P85	155.45
P80	170.35
P75	184.07
P70	197.83
P65	211.45
P60	225.96
P55	241.08
P50	257.02
P45	274.92
P40	293.47
P35	315.02
P30	339.56
P25	370.10
P20	406.23
P15	453.58
P10	525.81
P5	651.79
P0	1,199.45

Forecast: Overall Oil Field Probability

Summary:
Entire range is from 0.00 to 1.00
After 50,000 trials, the standard error of the mean is 0.00



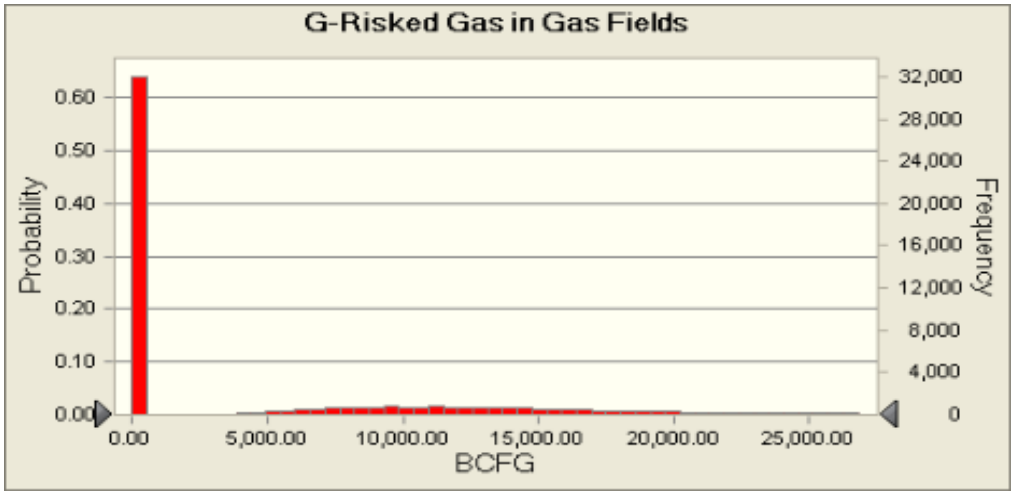
Statistics:	Forecast values	
Trials	50,000	
Mean	0.3597	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.48	
Variance	0.23	
Skewness	0.5849	
Kurtosis	1.34	
Coefficient of Variability	1.33	
Minimum	0.00	
Maximum	1.00	
Range Width	1.00	
Mean Standard Error	0.00	

Forecast: Overall Oil Field Probability (cont'd)

Percentiles:	Forecast values
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	1.00
P30	1.00
P25	1.00
P20	1.00
P15	1.00
P10	1.00
P5	1.00
P0	1.00

Forecast: G-Risked Gas in Gas Fields

Summary:
Entire range is from 0.00 to 54,874.10
After 50,000 trials, the standard error of the mean is 34.77



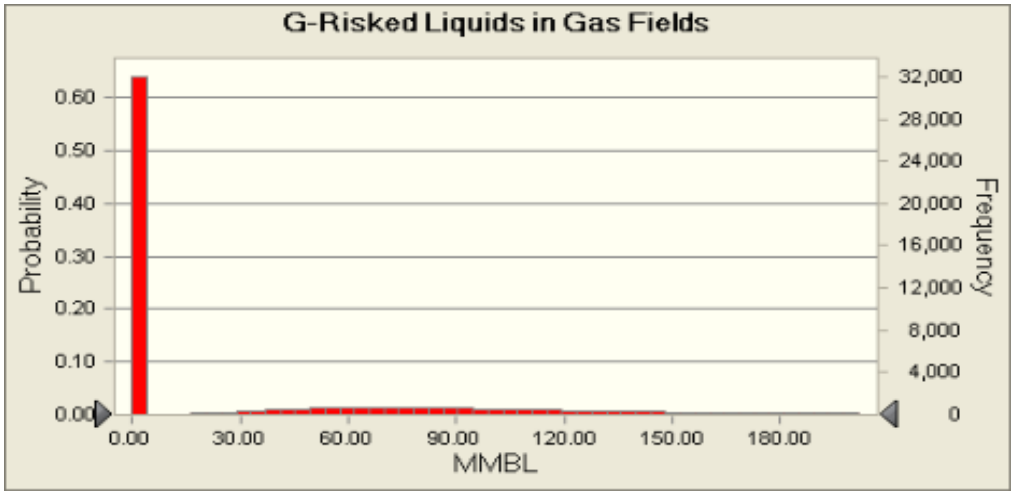
Statistics:	Forecast values
Trials	50,000
Mean	5,005.49
Median	0.00
Mode	0.00
Standard Deviation	7,775.33
Variance	60,455,718.18
Skewness	1.55
Kurtosis	5.09
Coefficient of Variability	1.55
Minimum	0.00
Maximum	54,874.10
Range Width	54,874.10
Mean Standard Error	34.77

Forecast: G-Risked Gas in Gas Fields (cont'd)

Percentiles:	BCFG
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	4,925.92
P30	7,935.86
P25	9,895.21
P20	11,864.94
P15	13,942.20
P10	16,510.85
P5	20,709.26
P0	54,874.10

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 595.00
After 50,000 trials, the standard error of the mean is 0.26



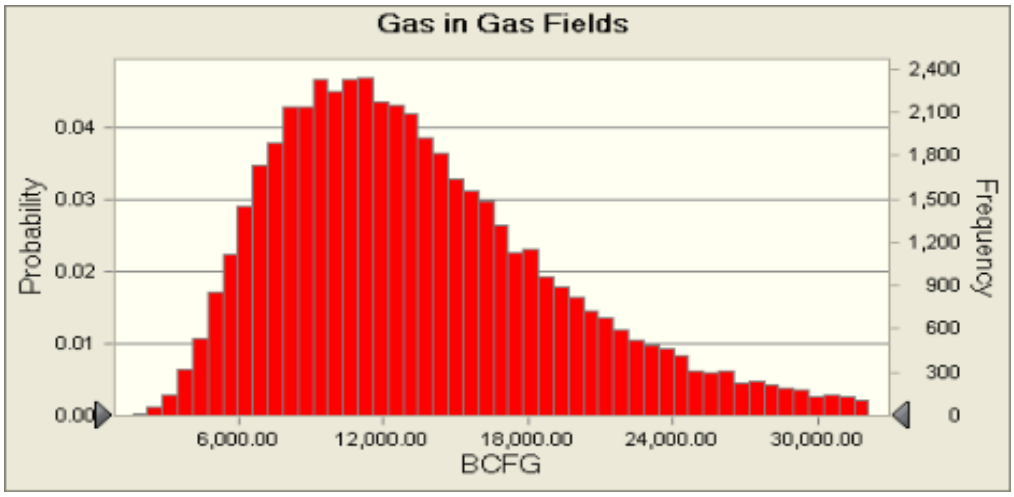
Statistics:	Forecast values
Trials	50,000
Mean	36.22
Median	0.00
Mode	0.00
Standard Deviation	59.06
Variance	3,487.60
Skewness	1.83
Kurtosis	6.67
Coefficient of Variability	1.63
Minimum	0.00
Maximum	595.00
Range Width	595.00
Mean Standard Error	0.26

Forecast: G-Risked Liquids in Gas Fields (cont'd)

Percentiles:	MMBL
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	26.95
P30	50.25
P25	66.04
P20	82.18
P15	100.14
P10	122.16
P5	159.15
P0	595.00

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 1,595.52 to 59,323.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 29.28



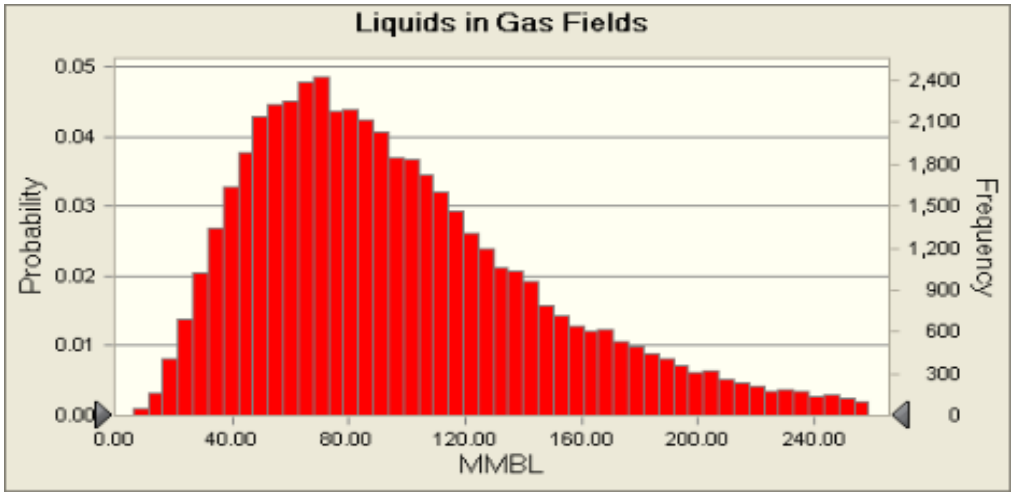
Statistics:	Forecast values
Trials	50,000
Mean	13,788.33
Median	12,529.41
Mode	---
Standard Deviation	6,546.35
Variance	42,854,759.29
Skewness	1.24
Kurtosis	5.25
Coefficient of Variability	0.4748
Minimum	1,595.52
Maximum	59,323.49
Range Width	57,727.97
Mean Standard Error	29.28

Forecast: Conditional Gas in Gas Fields (cont'd)

Percentiles:	BCFG
P100	1,595.52
P95	5,667.97
P90	6,773.50
P85	7,608.93
P80	8,373.96
P75	9,100.32
P70	9,764.56
P65	10,456.26
P60	11,129.33
P55	11,805.09
P50	12,529.19
P45	13,254.06
P40	14,065.74
P35	14,940.77
P30	15,932.82
P25	17,020.35
P20	18,370.30
P15	20,080.16
P10	22,467.91
P5	26,374.16
P0	59,323.49

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 5.63 to 613.40
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.25



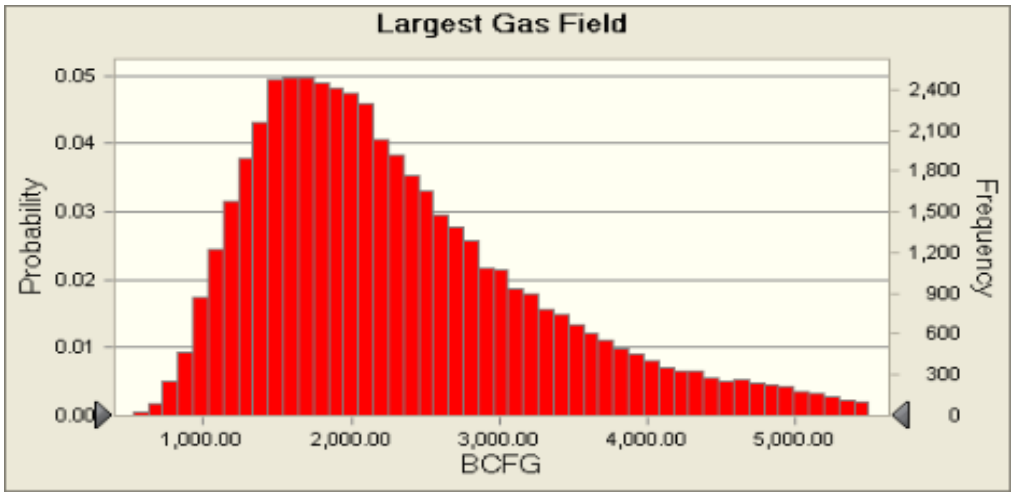
Statistics:	Forecast values
Trials	50,000
Mean	100.07
Median	88.04
Mode	---
Standard Deviation	56.71
Variance	3,216.33
Skewness	1.40
Kurtosis	6.12
Coefficient of Variability	0.5667
Minimum	5.63
Maximum	613.40
Range Width	607.78
Mean Standard Error	0.25

Forecast: Conditional Liquids in Gas Fields (cont'd)

Percentiles:	MMBL
P100	5.63
P95	32.19
P90	40.97
P85	47.77
P80	53.71
P75	59.48
P70	65.03
P65	70.36
P60	76.10
P55	81.91
P50	88.04
P45	94.49
P40	101.36
P35	108.86
P30	117.22
P25	127.08
P20	139.14
P15	154.37
P10	175.77
P5	209.29
P0	613.40

Forecast: Largest Gas Field

Summary:
Entire range is from 522.30 to 6,999.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.96



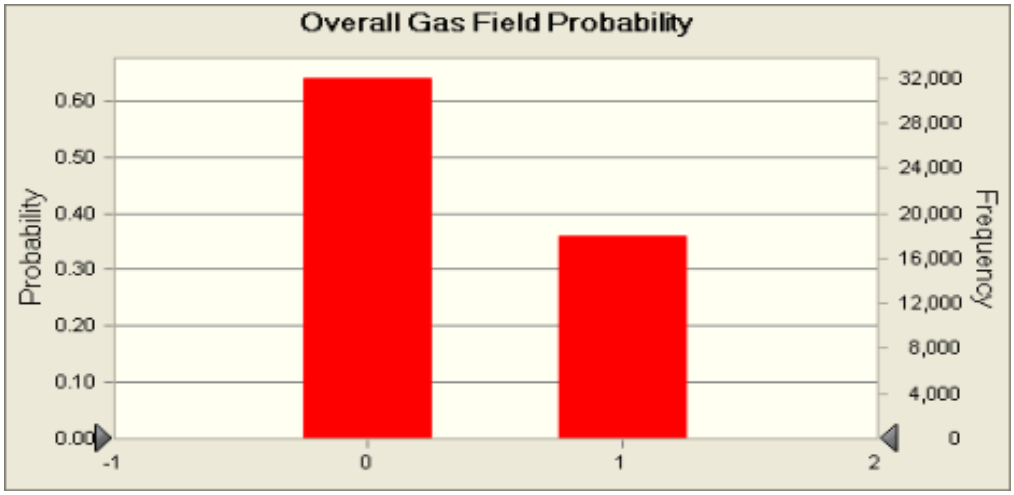
Statistics:	Forecast values
Trials	50,000
Mean	2,390.66
Median	2,120.64
Mode	---
Standard Deviation	1,108.77
Variance	1,229,370.47
Skewness	1.31
Kurtosis	4.87
Coefficient of Variability	0.4638
Minimum	522.30
Maximum	6,999.98
Range Width	6,477.68
Mean Standard Error	4.96

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	522.30
P95	1,098.66
P90	1,261.23
P85	1,386.80
P80	1,494.53
P75	1,596.90
P70	1,700.21
P65	1,802.89
P60	1,904.55
P55	2,014.44
P50	2,120.62
P45	2,244.11
P40	2,377.37
P35	2,525.56
P30	2,697.41
P25	2,898.14
P20	3,146.52
P15	3,456.73
P10	3,901.13
P5	4,672.19
P0	6,999.98

Forecast: Overall Gas Field Probability

Summary:
Entire range is from 0.00 to 1.00
After 50,000 trials, the standard error of the mean is 0.00



Statistics:	Forecast values	
Trials	50,000	
Mean	0.3597	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.48	
Variance	0.23	
Skewness	0.5849	
Kurtosis	1.34	
Coefficient of Variability	1.33	
Minimum	0.00	
Maximum	1.00	
Range Width	1.00	
Mean Standard Error	0.00	

Forecast: Overall Gas Field Probability (cont'd)

Percentiles:	Forecast values
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.00
P75	0.00
P70	0.00
P65	0.00
P60	0.00
P55	0.00
P50	0.00
P45	0.00
P40	0.00
P35	1.00
P30	1.00
P25	1.00
P20	1.00
P15	1.00
P10	1.00
P5	1.00
P0	1.00

End of Forecasts

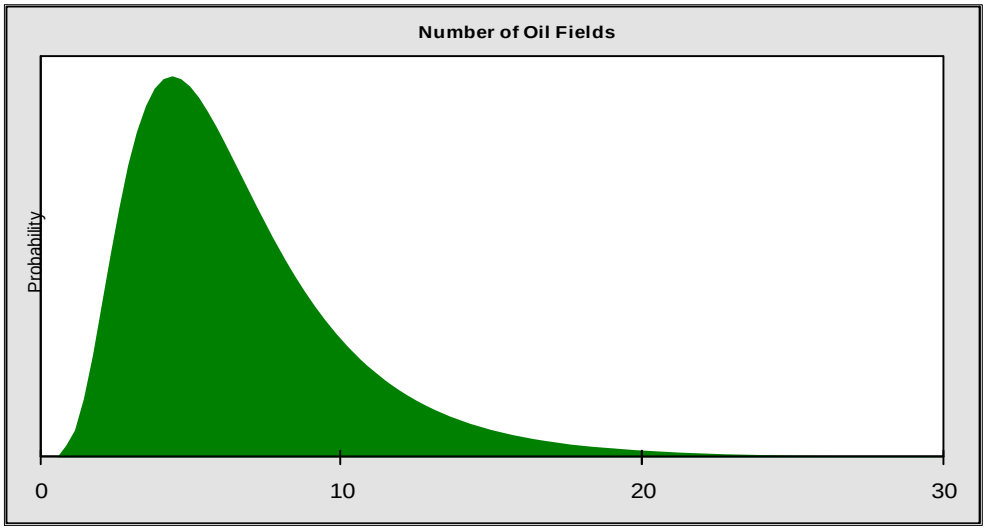
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	6.87
Standard Deviation	3.84

Selected range is from 0.00 to 30.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.88	6.84
Median	5.99	6.00
Mode	---	---
Standard Deviation	3.76	3.73
Variance	14.11	13.91
Skewness	1.56	1.55
Kurtosis	6.61	6.59
Coefficient of Variability	0.5464	0.5450
Minimum	0.79	0.00
Maximum	30.00	30.00
Range Width	29.20	30.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (cont'd)

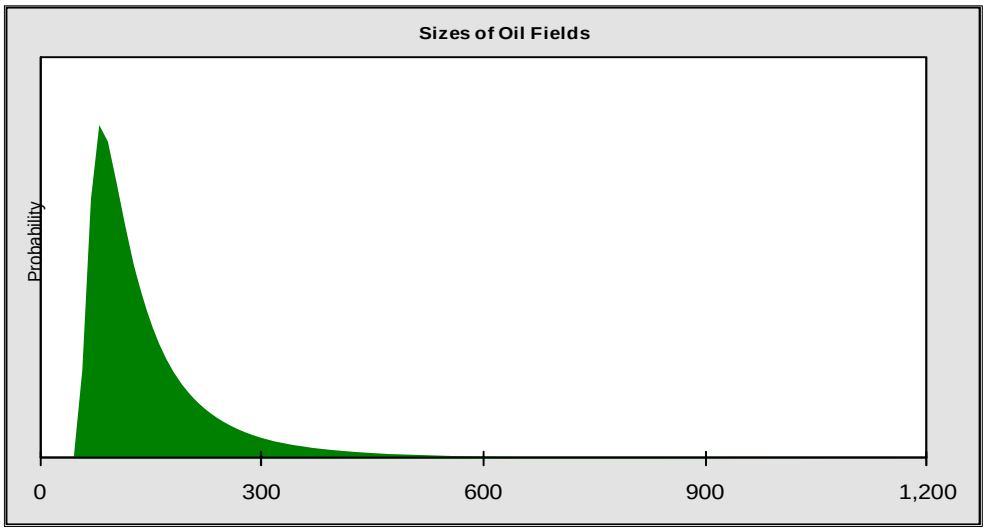
Percentiles:	Simulated values	Theoretical values
P100	0.79	0.00
P95	2.57	2.55
P90	3.09	3.08
P85	3.51	3.50
P80	3.89	3.87
P75	4.24	4.22
P70	4.59	4.56
P65	4.93	4.91
P60	5.27	5.26
P55	5.63	5.62
P50	5.99	6.00
P45	6.40	6.40
P40	6.87	6.84
P35	7.36	7.33
P30	7.90	7.88
P25	8.54	8.52
P20	9.30	9.29
P15	10.29	10.27
P10	11.72	11.67
P5	14.21	14.07
P0	30.00	30.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	150.15
Standard Deviation	117.39

Selected range is from 50.00 to 1,200.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	148.79	148.71
Median	114.62	114.92
Mode	---	---
Standard Deviation	107.56	107.18
Variance	11,569.99	11,487.93
Skewness	3.22	3.21
Kurtosis	18.75	18.50
Coefficient of Variability	0.72	0.72
Minimum	50.78	50.00
Maximum	1,195.25	1,200.00
Range Width	1,144.46	1,150.00
Mean Standard Error	0.48	---

Assumption: Sizes of Oil Fields (cont'd)

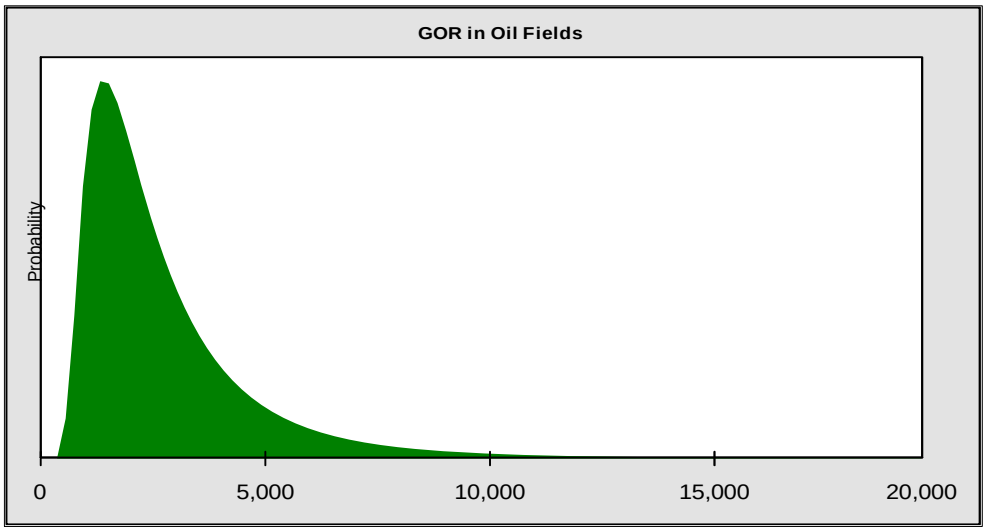
Percentiles:	Simulated values	Theoretical values
P100	50.78	50.00
P95	63.82	64.08
P90	69.48	69.73
P85	74.49	74.78
P80	79.51	79.70
P75	84.44	84.69
P70	89.56	89.88
P65	95.03	95.39
P60	100.97	101.31
P55	107.57	107.77
P50	114.62	114.92
P45	122.84	122.96
P40	132.18	132.15
P35	142.97	142.85
P30	156.07	155.65
P25	172.08	171.43
P20	192.33	191.78
P15	220.79	219.81
P10	264.82	262.99
P5	346.61	347.46
P0	1,195.25	1,200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:

Mean	2,923.15
Standard Deviation	2,183.83

Selected range is from 500.00 to 20,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,884.86	2,900.82
Median	2,294.18	2,298.26
Mode	---	---
Standard Deviation	2,022.14	2,059.11
Variance	4,089,051.30	4,239,913.71
Skewness	2.48	2.50
Kurtosis	12.49	12.47
Coefficient of Variability	0.7009	0.7098
Minimum	562.92	500.00
Maximum	19,883.73	20,000.00
Range Width	19,320.81	19,500.00
Mean Standard Error	9.04	---

Assumption: GOR in Oil Fields (cont'd)

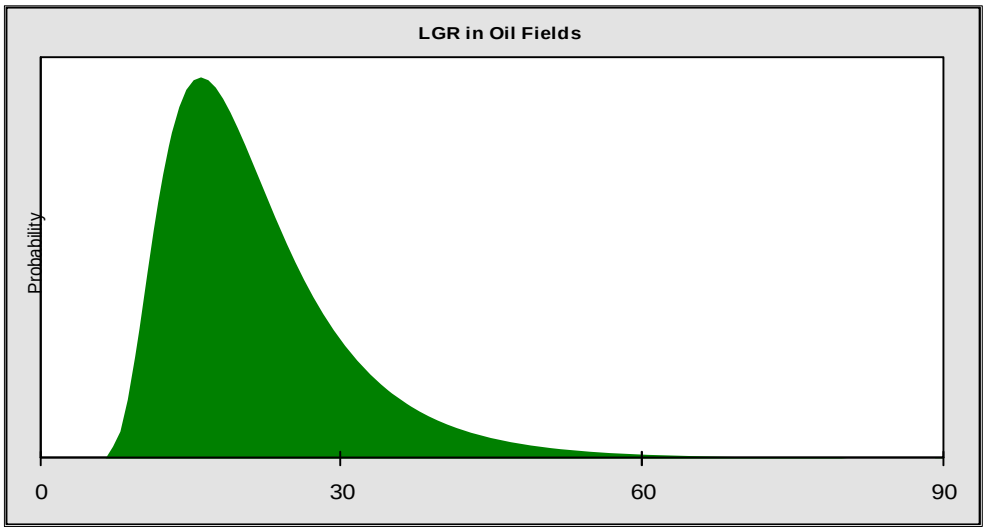
Percentiles:	Simulated values	Theoretical values
P100	562.92	500.00
P95	1,009.06	1,006.16
P90	1,175.11	1,169.77
P85	1,313.50	1,309.06
P80	1,441.76	1,440.15
P75	1,570.90	1,569.40
P70	1,702.36	1,700.54
P65	1,833.15	1,836.35
P60	1,978.85	1,979.40
P55	2,127.82	2,132.34
P50	2,294.18	2,298.26
P45	2,471.45	2,481.01
P40	2,676.90	2,685.71
P35	2,912.36	2,919.46
P30	3,193.51	3,192.81
P25	3,516.50	3,522.40
P20	3,921.00	3,936.79
P15	4,458.36	4,491.43
P10	5,275.75	5,316.35
P5	6,779.31	6,853.72
P0	19,883.73	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:

Mean	22.18
Standard Deviation	9.59

Selected range is from 5.00 to 80.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	22.14	22.11
Median	19.97	19.99
Mode	---	---
Standard Deviation	9.37	9.32
Variance	87.88	86.93
Skewness	1.56	1.55
Kurtosis	6.55	6.59
Coefficient of Variability	0.4235	0.4217
Minimum	6.76	5.00
Maximum	79.82	80.00
Range Width	73.05	75.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (cont'd)

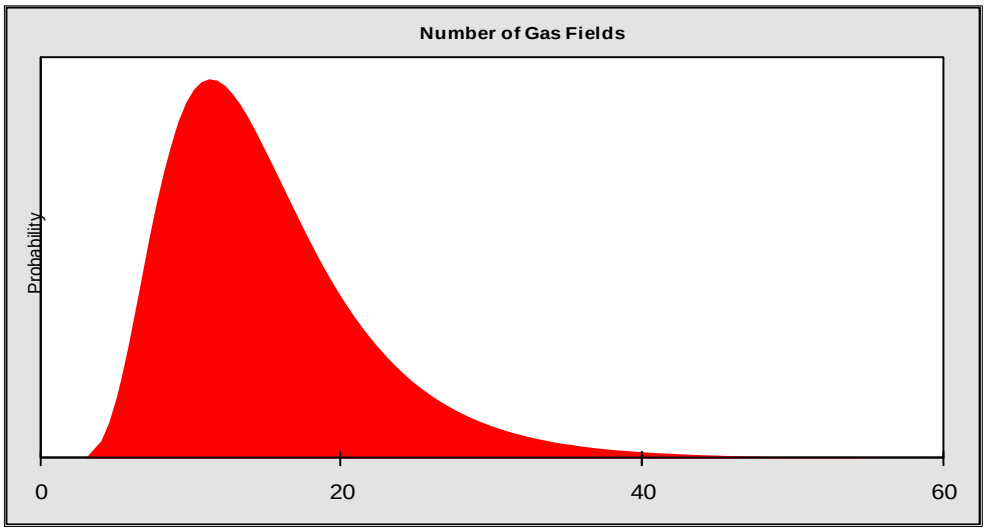
Percentiles:	Simulated values	Theoretical values
P100	6.76	5.00
P95	11.36	11.37
P90	12.69	12.69
P85	13.76	13.74
P80	14.68	14.67
P75	15.58	15.55
P70	16.44	16.41
P65	17.28	17.27
P60	18.14	18.14
P55	19.04	19.04
P50	19.96	19.99
P45	20.98	21.00
P40	22.07	22.10
P35	23.29	23.32
P30	24.66	24.69
P25	26.28	26.29
P20	28.24	28.22
P15	30.75	30.69
P10	34.26	34.16
P5	40.33	40.16
P0	79.82	80.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	15.42
Standard Deviation	6.91

Selected range is from 1.00 to 54.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.36	15.37
Median	13.99	13.99
Mode	---	---
Standard Deviation	6.72	6.75
Variance	45.21	45.61
Skewness	1.29	1.33
Kurtosis	5.36	5.60
Coefficient of Variability	0.4377	0.4394
Minimum	2.85	1.00
Maximum	53.94	54.00
Range Width	51.09	53.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (cont'd)

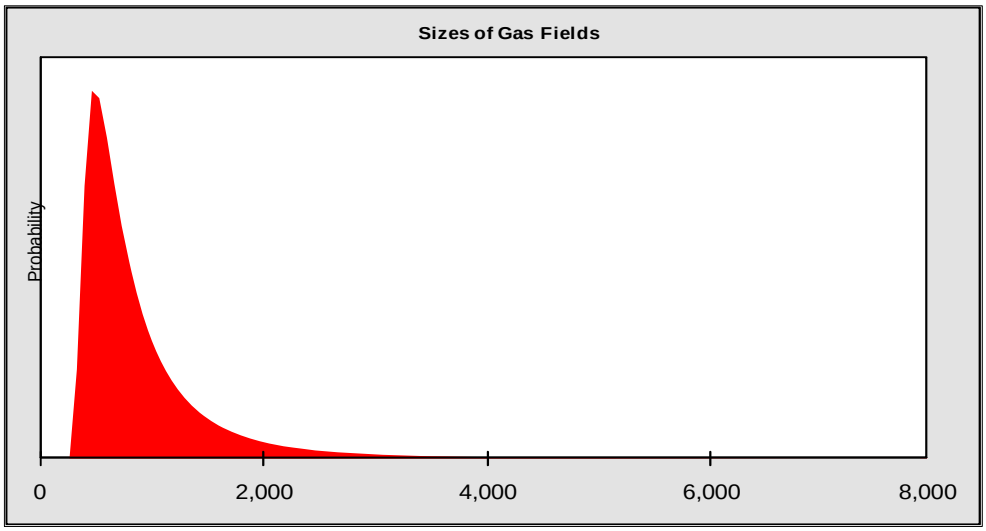
Percentiles:	Simulated values	Theoretical values
P100	2.85	1.00
P95	7.15	7.15
P90	8.26	8.26
P85	9.12	9.11
P80	9.85	9.86
P75	10.56	10.56
P70	11.23	11.24
P65	11.90	11.91
P60	12.59	12.58
P55	13.29	13.27
P50	13.99	13.99
P45	14.75	14.76
P40	15.59	15.58
P35	16.49	16.48
P30	17.48	17.49
P25	18.62	18.65
P20	20.02	20.04
P15	21.77	21.79
P10	24.22	24.23
P5	28.43	28.35
P0	53.94	54.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	906.33
Standard Deviation	690.73

Selected range is from 300.00 to 7,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	898.78	898.01
Median	698.92	699.54
Mode	---	---
Standard Deviation	633.39	633.32
Variance	401,186.44	401,096.47
Skewness	3.12	3.13
Kurtosis	17.67	17.72
Coefficient of Variability	0.70	0.71
Minimum	308.58	300.00
Maximum	6,983.65	7,000.00
Range Width	6,675.07	6,700.00
Mean Standard Error	2.83	---

Assumption: Sizes of Gas Fields (cont'd)

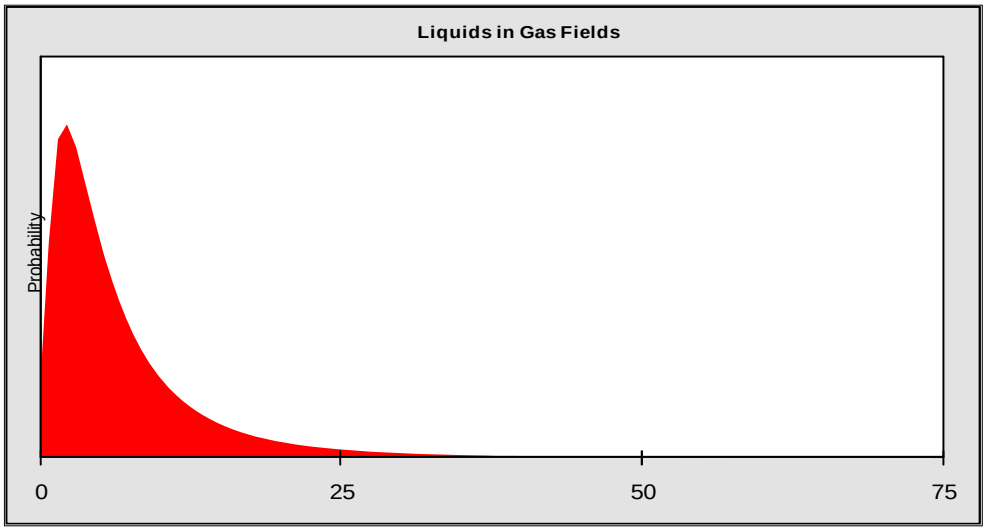
Percentiles:	Simulated values	Theoretical values
P100	308.58	300.00
P95	390.24	389.19
P90	424.83	424.22
P85	455.04	455.33
P80	486.39	485.52
P75	516.83	516.06
P70	547.69	547.74
P65	580.05	581.22
P60	616.03	617.17
P55	655.22	656.31
P50	698.92	699.54
P45	747.49	748.01
P40	804.13	803.27
P35	869.51	867.54
P30	946.02	944.15
P25	1,042.05	1,038.42
P20	1,164.18	1,159.63
P15	1,332.71	1,326.06
P10	1,580.72	1,581.40
P5	2,081.31	2,078.27
P0	6,983.65	7,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:

Mean	7.34
Standard Deviation	7.89

Selected range is from 0.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	7.22	7.25
Median	5.01	4.99
Mode	---	---
Standard Deviation	7.24	7.29
Variance	52.44	53.20
Skewness	2.97	2.96
Kurtosis	16.36	16.23
Coefficient of Variability	1.00	1.01
Minimum	0.11	0.00
Maximum	74.96	75.00
Range Width	74.85	75.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	0.11	0.00
P95	1.19	1.18
P90	1.63	1.63
P85	2.02	2.01
P80	2.40	2.39
P75	2.76	2.77
P70	3.16	3.16
P65	3.56	3.56
P60	4.01	4.00
P55	4.49	4.47
P50	5.01	4.99
P45	5.58	5.58
P40	6.23	6.23
P35	7.00	7.00
P30	7.88	7.90
P25	8.96	9.01
P20	10.35	10.43
P15	12.29	12.36
P10	15.20	15.30
P5	20.72	20.97
P0	74.96	75.00

End of Assumptions

Simulation started on 3/21/2008 at 11:28:42
Simulation stopped on 3/21/2008 at 11:41:04