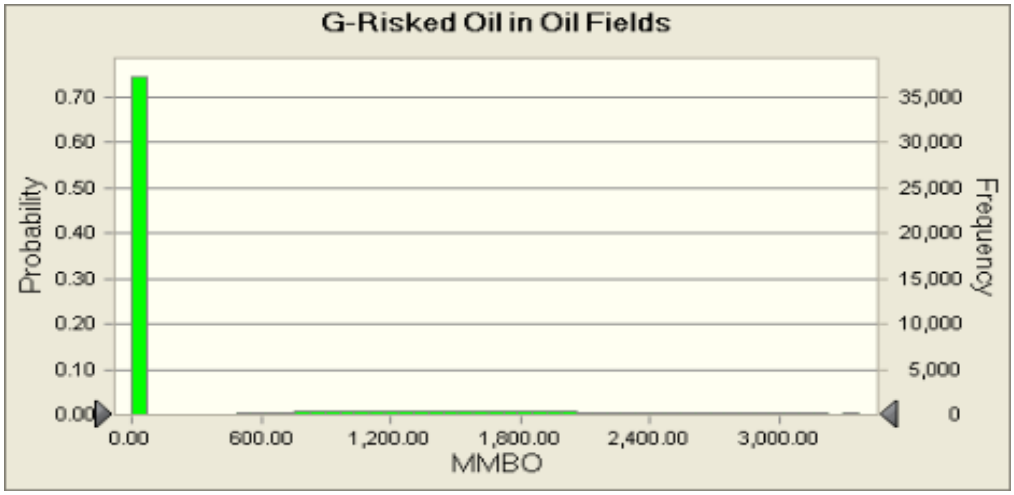
52000103
Northeast Greenland Volcanic Province
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 9,029.54
After 50,000 trials, the standard error of the mean is 4.58



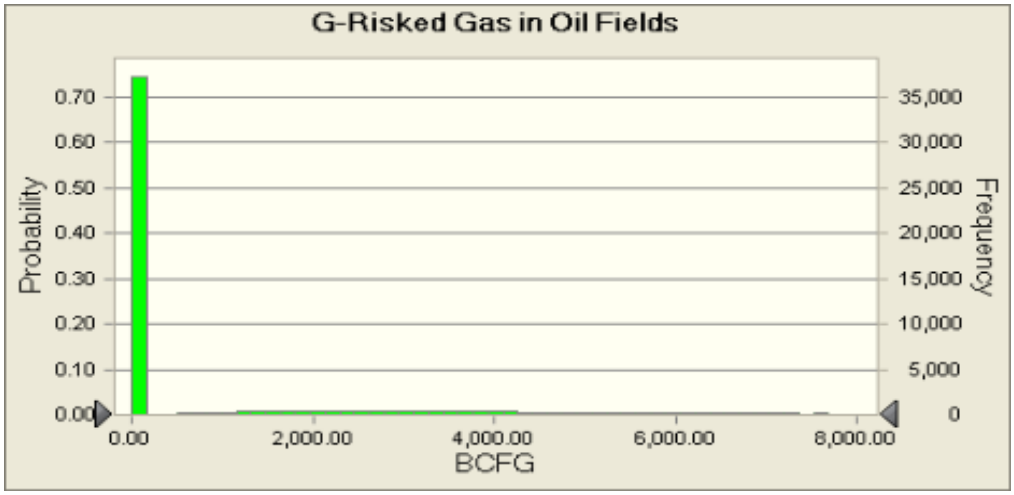
Statistics:	Forecast values
Trials	50,000
Mean	497.30
Median	0.00
Mode	0.00
Standard Deviation	1,024.28
Variance	1,049,156.76
Skewness	2.46
Kurtosis	9.85
Coefficient of Variability	2.06
Minimum	0.00
Maximum	9,029.54
Range Width	9,029.54
Mean Standard Error	4.58

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	0.00
P30	0.00
P25	498.84
P20	1,065.66
P15	1,480.42
P10	1,971.58
P5	2,757.09
P0	9,029.54

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 42,010.26
After 50,000 trials, the standard error of the mean is 11.03



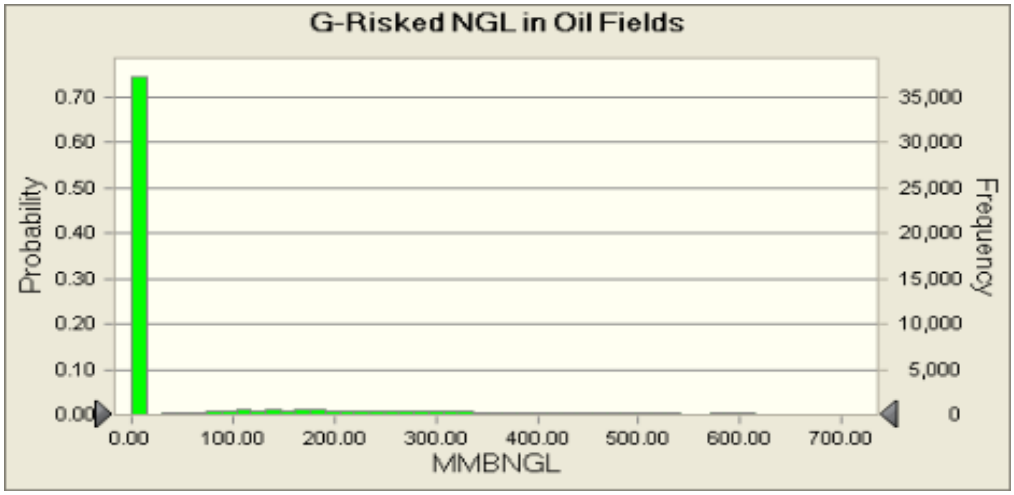
Statistics:	Forecast values
Trials	50,000
Mean	1,105.14
Median	0.00
Mode	0.00
Standard Deviation	2,467.25
Variance	6,087,328.00
Skewness	3.31
Kurtosis	19.75
Coefficient of Variability	2.23
Minimum	0.00
Maximum	42,010.26
Range Width	42,010.26
Mean Standard Error	11.03

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	0.00
P30	0.00
P25	772.30
P20	2,045.94
P15	3,003.13
P10	4,233.92
P5	6,212.23
P0	42,010.26

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 17,364.32
After 50,000 trials, the standard error of the mean is 1.01



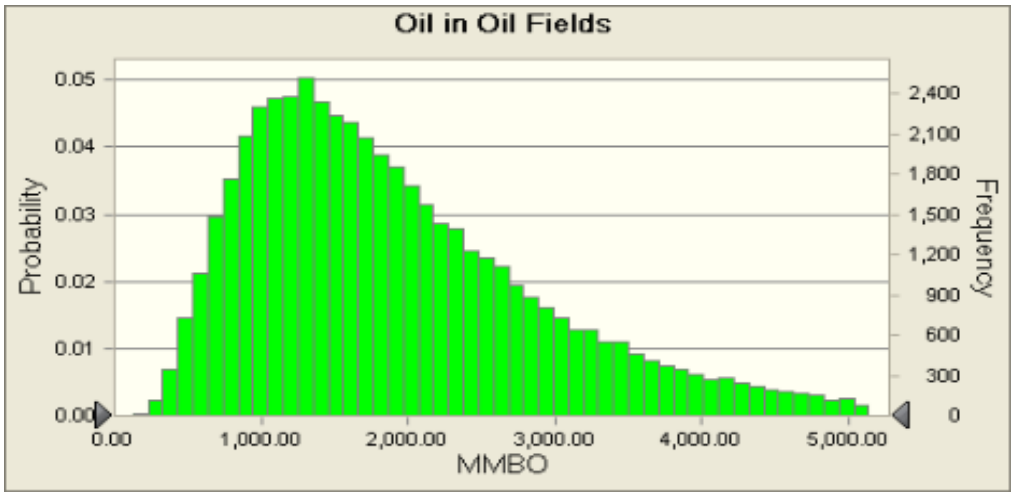
Statistics:	Forecast values
Trials	50,000
Mean	86.98
Median	0.00
Mode	0.00
Standard Deviation	224.85
Variance	50,557.36
Skewness	13.17
Kurtosis	741.86
Coefficient of Variability	2.58
Minimum	0.00
Maximum	17,364.32
Range Width	17,364.32
Mean Standard Error	1.01

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	0.00
P30	0.00
P25	45.92
P20	141.16
P15	218.82
P10	319.82
P5	492.13
P0	17,364.32

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 120.47 to 10,806.72
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.07



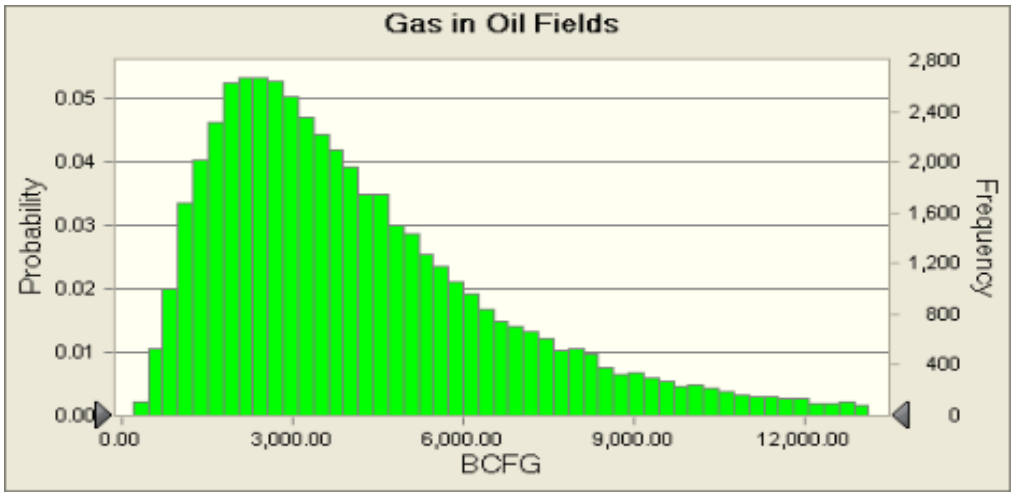
Statistics:	Forecast values
Trials	50,000
Mean	1,969.58
Median	1,709.58
Mode	---
Standard Deviation	1,132.75
Variance	1,283,125.23
Skewness	1.44
Kurtosis	6.09
Coefficient of Variability	0.5751
Minimum	120.47
Maximum	10,806.72
Range Width	10,686.25
Mean Standard Error	5.07

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

Percentiles:	MMBO
P100	120.47
P95	649.11
P90	808.61
P85	936.05
P80	1,047.06
P75	1,154.12
P70	1,262.24
P65	1,365.22
P60	1,476.55
P55	1,590.91
P50	1,709.58
P45	1,838.31
P40	1,977.37
P35	2,130.75
P30	2,307.39
P25	2,510.51
P20	2,747.49
P15	3,054.20
P10	3,471.73
P5	4,181.83
P0	10,806.72

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 173.67 to 55,306.42
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 14.00



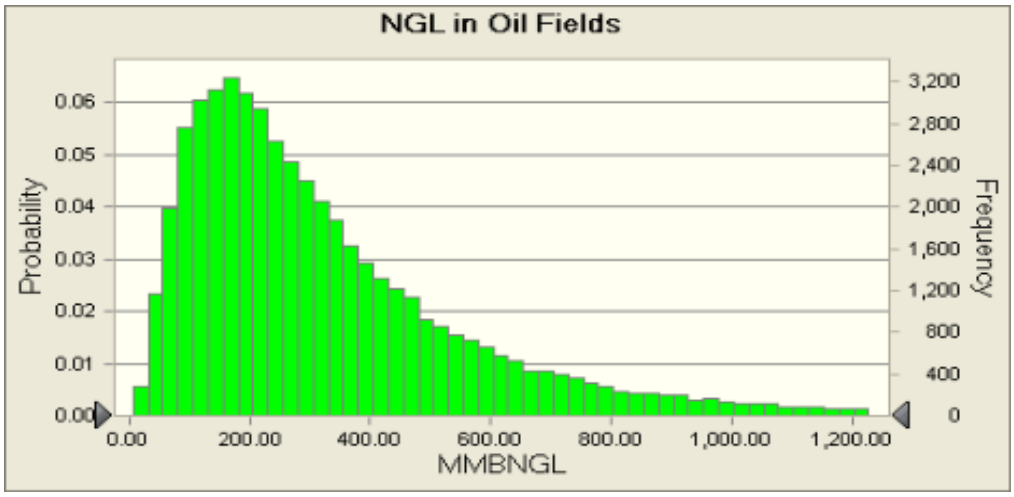
Statistics:	Forecast values
Trials	50,000
Mean	4,357.05
Median	3,572.78
Mode	---
Standard Deviation	3,129.38
Variance	9,793,015.21
Skewness	2.32
Kurtosis	14.14
Coefficient of Variability	0.7182
Minimum	173.67
Maximum	55,306.42
Range Width	55,132.75
Mean Standard Error	14.00

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

Percentiles:	BCFG
P100	173.67
P95	1,118.90
P90	1,454.43
P85	1,742.32
P80	1,999.03
P75	2,244.73
P70	2,492.23
P65	2,743.65
P60	2,998.85
P55	3,275.06
P50	3,572.72
P45	3,881.55
P40	4,232.87
P35	4,610.10
P30	5,037.14
P25	5,546.72
P20	6,160.26
P15	7,008.31
P10	8,158.68
P5	10,264.19
P0	55,306.42

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 6.11 to 17,364.32
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.41



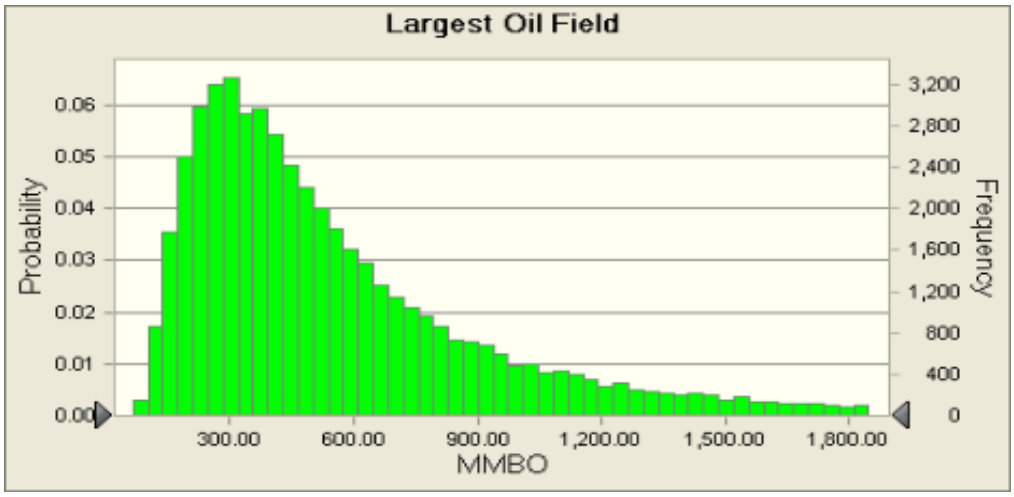
Statistics:	Forecast values
Trials	50,000
Mean	343.70
Median	262.84
Mode	---
Standard Deviation	315.73
Variance	99,687.31
Skewness	7.13
Kurtosis	214.49
Coefficient of Variability	0.9186
Minimum	6.11
Maximum	17,364.32
Range Width	17,358.21
Mean Standard Error	1.41

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

Percentiles:	MMBNGL
P100	6.11
P95	69.88
P90	95.44
P85	116.68
P80	136.76
P75	156.86
P70	176.08
P65	195.94
P60	216.37
P55	238.65
P50	262.84
P45	289.48
P40	317.73
P35	349.69
P30	387.73
P25	434.10
P20	489.04
P15	564.75
P10	672.43
P5	874.34
P0	17,364.32

Forecast: Largest Oil Field

Summary:
Entire range is from 63.57 to 2,999.87
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.01



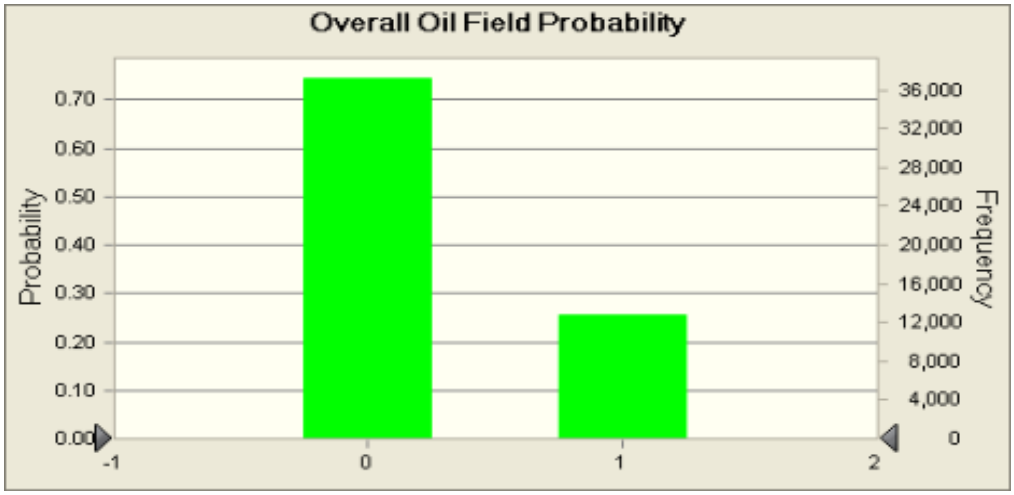
Statistics:	Forecast values
Trials	50,000
Mean	590.02
Median	451.69
Mode	---
Standard Deviation	448.71
Variance	201,341.40
Skewness	2.06
Kurtosis	8.20
Coefficient of Variability	0.7605
Minimum	63.57
Maximum	2,999.87
Range Width	2,936.30
Mean Standard Error	2.01

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	63.57
P95	167.95
P90	205.13
P85	236.50
P80	265.68
P75	293.37
P70	321.65
P65	352.72
P60	383.29
P55	416.30
P50	451.68
P45	493.02
P40	537.13
P35	589.28
P30	650.48
P25	727.36
P20	822.54
P15	952.16
P10	1,148.51
P5	1,522.42
P0	2,999.87

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



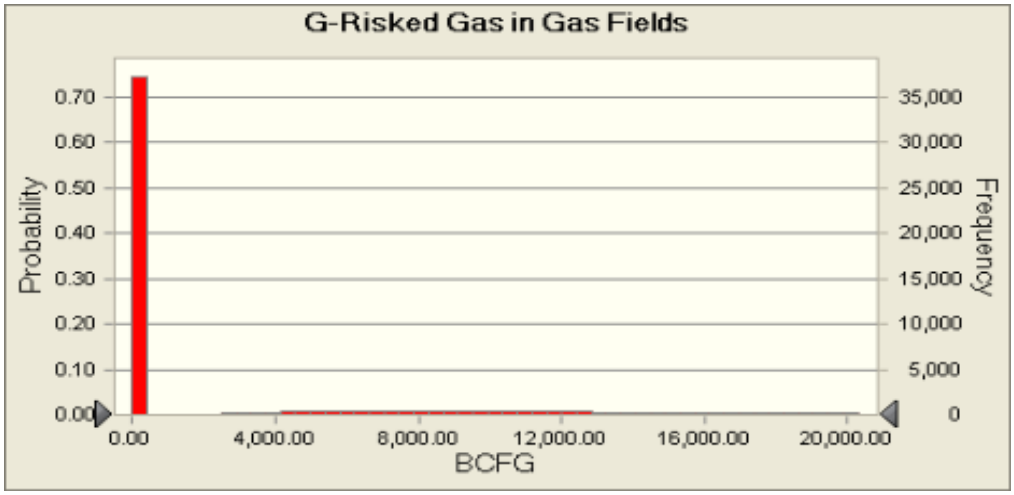
Statistics:	Forecast values	
Trials	50,000	
Mean	0.2546	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.44	
Variance	0.19	
Skewness	1.13	
Kurtosis	2.27	
Coefficient of Variability	1.71	
Minimum	0.00	
Maximum	1.00	
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	0.00
P30	0.00
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 57,878.39
After 50,000 trials, the standard error of the mean is 27.59



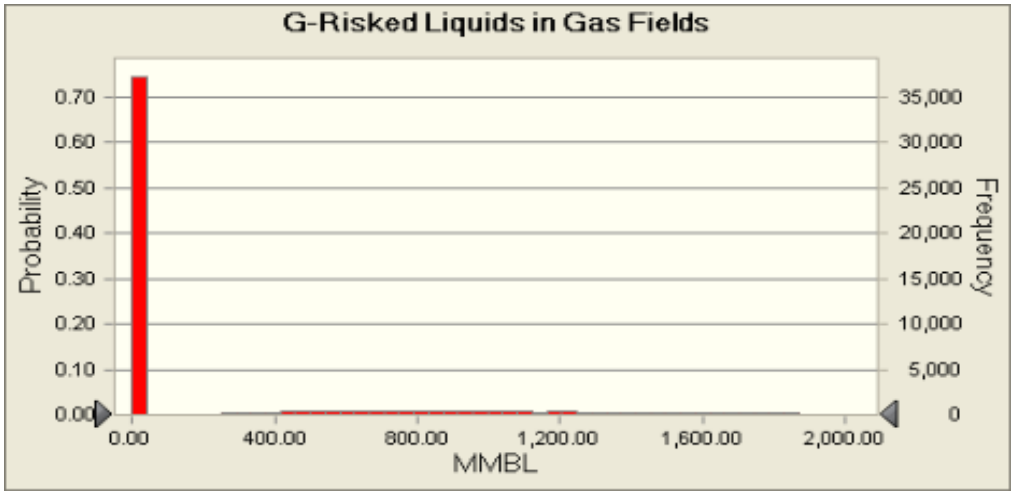
Statistics:	Forecast values
Trials	50,000
Mean	3,002.67
Median	0.00
Mode	0.00
Standard Deviation	6,168.58
Variance	38,051,347.55
Skewness	2.43
Kurtosis	9.66
Coefficient of Variability	2.05
Minimum	0.00
Maximum	57,878.39
Range Width	57,878.39
Mean Standard Error	27.59

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	0.00
P30	0.00
P25	2,985.31
P20	6,453.51
P15	8,988.82
P10	11,909.30
P5	16,550.52
P0	57,878.39

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 6,138.79
After 50,000 trials, the standard error of the mean is 2.78



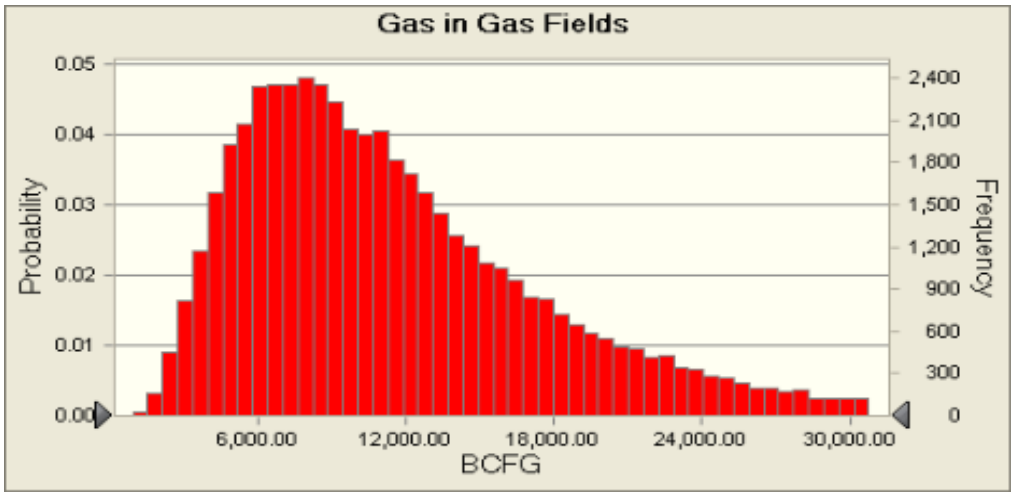
Statistics:	Forecast values
Trials	50,000
Mean	297.05
Median	0.00
Mode	0.00
Standard Deviation	621.12
Variance	385,793.85
Skewness	2.58
Kurtosis	10.87
Coefficient of Variability	2.09
Minimum	0.00
Maximum	6,138.79
Range Width	6,138.79
Mean Standard Error	2.78

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	0.00
P30	0.00
P25	271.52
P20	616.92
P15	871.38
P10	1,175.85
P5	1,650.81
P0	6,138.79

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 951.98 to 63,990.57
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 30.26



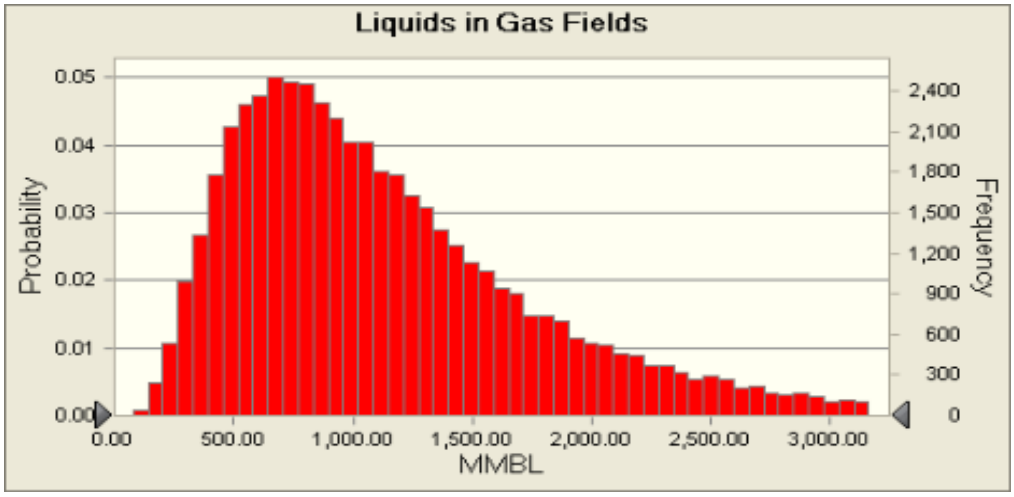
Statistics:	Forecast values
Trials	50,000
Mean	11,811.77
Median	10,296.01
Mode	---
Standard Deviation	6,765.58
Variance	45,773,119.41
Skewness	1.43
Kurtosis	5.96
Coefficient of Variability	0.5728
Minimum	951.98
Maximum	63,990.57
Range Width	63,038.59
Mean Standard Error	30.26

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

Percentiles:	BCFG
P100	951.98
P95	3,934.85
P90	4,864.21
P85	5,625.84
P80	6,292.04
P75	6,924.95
P70	7,578.10
P65	8,209.95
P60	8,857.78
P55	9,542.60
P50	10,295.93
P45	11,047.07
P40	11,860.29
P35	12,741.45
P30	13,785.42
P25	15,007.31
P20	16,484.98
P15	18,296.05
P10	20,899.20
P5	24,996.38
P0	63,990.57

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 75.02 to 8,381.48
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.19



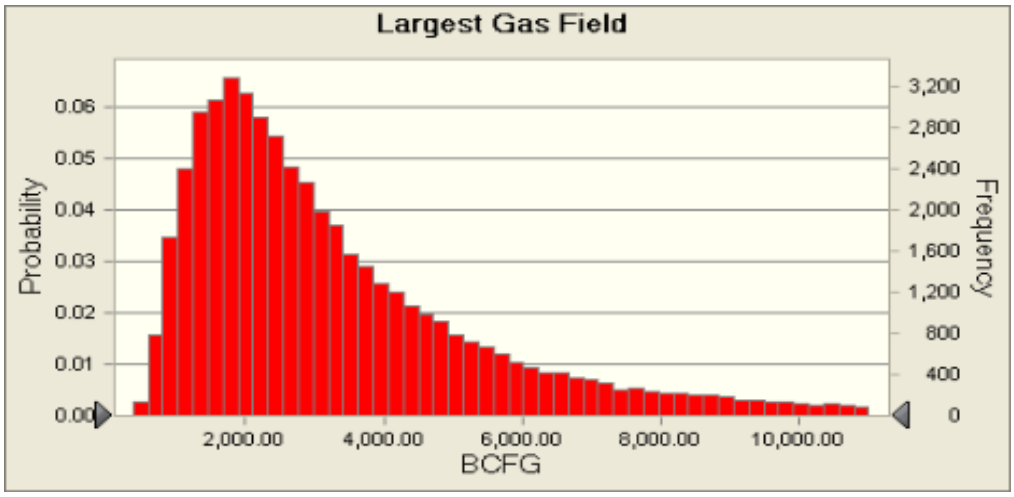
Statistics:	Forecast values
Trials	50,000
Mean	1,167.24
Median	998.04
Mode	---
Standard Deviation	712.42
Variance	507,544.66
Skewness	1.58
Kurtosis	6.94
Coefficient of Variability	0.6103
Minimum	75.02
Maximum	8,381.48
Range Width	8,306.46
Mean Standard Error	3.19

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

Percentiles:	MMBL
P100	75.02
P95	362.26
P90	455.36
P85	528.33
P80	597.00
P75	661.02
P70	725.27
P65	788.49
P60	854.41
P55	922.14
P50	998.04
P45	1,075.86
P40	1,164.81
P35	1,255.64
P30	1,361.10
P25	1,485.73
P20	1,636.89
P15	1,834.44
P10	2,110.59
P5	2,555.01
P0	8,381.48

Forecast: Largest Gas Field

Summary:
Entire range is from 367.33 to 17,983.59
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 11.96



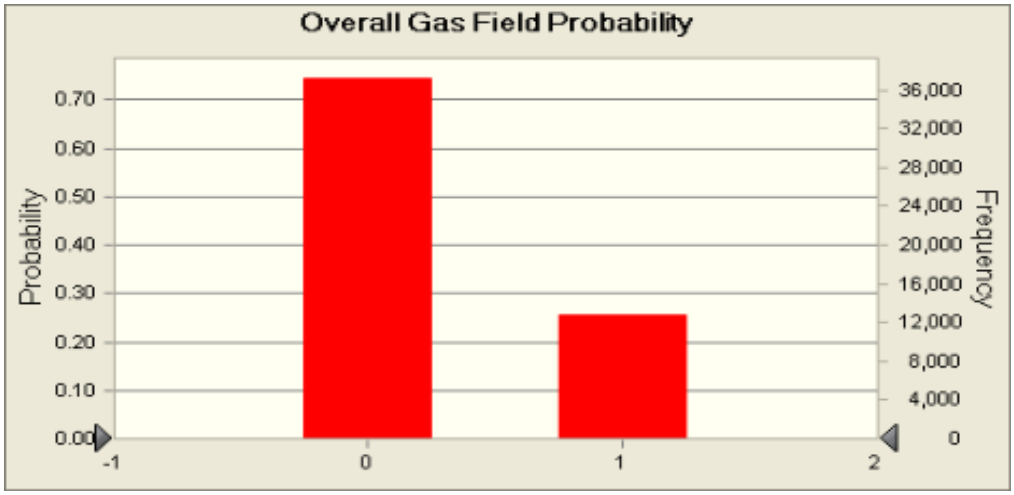
Statistics:	Forecast values
Trials	50,000
Mean	3,525.18
Median	2,704.66
Mode	---
Standard Deviation	2,675.45
Variance	7,158,044.61
Skewness	2.08
Kurtosis	8.27
Coefficient of Variability	0.7590
Minimum	367.33
Maximum	17,983.59
Range Width	17,616.26
Mean Standard Error	11.96

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	367.33
P95	1,005.38
P90	1,233.45
P85	1,419.36
P80	1,596.91
P75	1,767.02
P70	1,933.38
P65	2,107.10
P60	2,294.80
P55	2,489.76
P50	2,704.61
P45	2,945.10
P40	3,215.26
P35	3,526.14
P30	3,896.65
P25	4,346.47
P20	4,901.99
P15	5,649.25
P10	6,838.86
P5	9,038.30
P0	17,983.59

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	0.2546	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.44	
Variance	0.19	
Skewness	1.13	
Kurtosis	2.27	
Coefficient of Variability	1.71	
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	0.00
P30	0.00
P25	1.00
P20	1.00
P15	1.00
P10	1.00
P5	1.00
P0	1.00

End of Forecasts

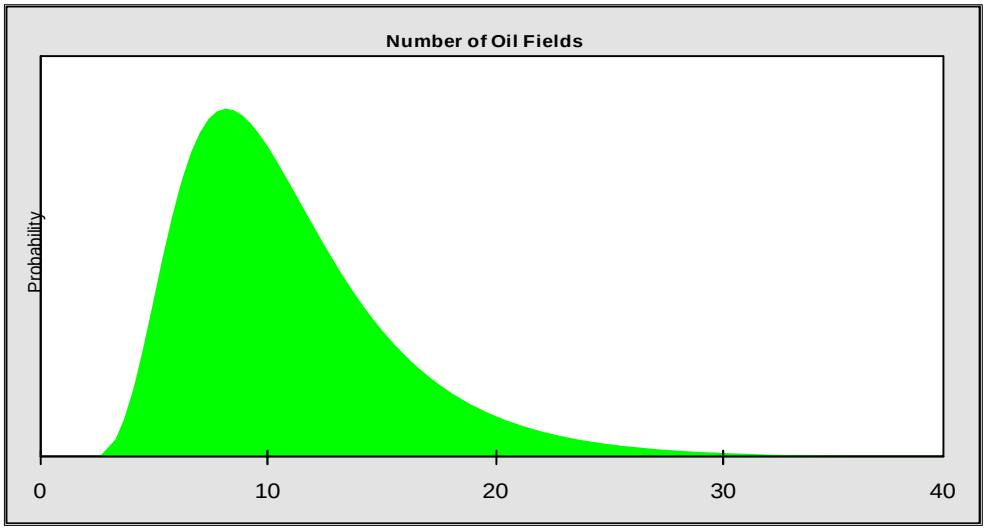
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	11.07
Standard Deviation	5.06

Selected range is from 1.00 to 40.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	11.01	11.04
Median	9.97	9.99
Mode	---	---
Standard Deviation	4.91	4.94
Variance	24.14	24.40
Skewness	1.37	1.39
Kurtosis	5.79	5.88
Coefficient of Variability	0.4464	0.4475
Minimum	2.04	1.00
Maximum	39.99	40.00
Range Width	37.94	39.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (cont'd)

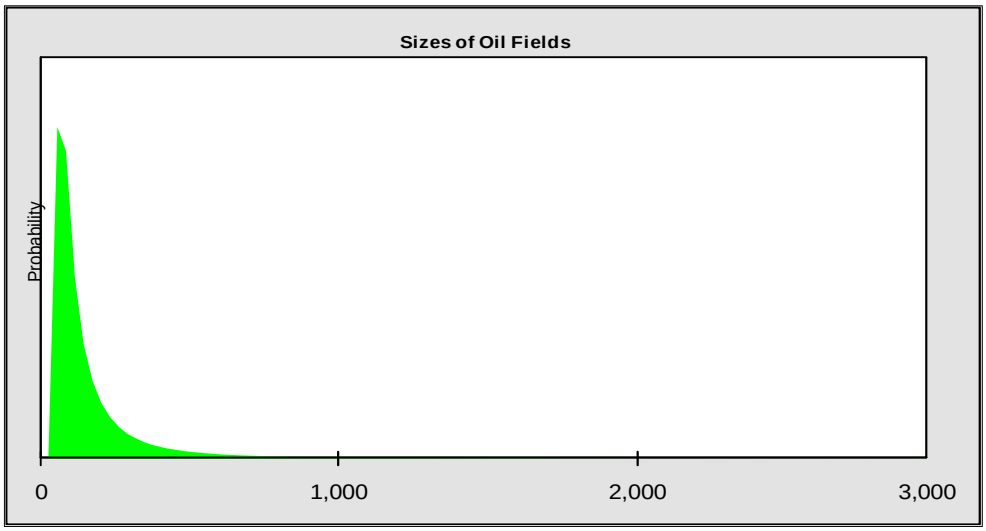
Percentiles:	Simulated values	Theoretical values
P100	2.04	1.00
P95	5.08	5.12
P90	5.87	5.90
P85	6.49	6.50
P80	7.02	7.03
P75	7.52	7.53
P70	7.99	8.01
P65	8.46	8.49
P60	8.95	8.98
P55	9.45	9.47
P50	9.97	9.99
P45	10.53	10.55
P40	11.12	11.14
P35	11.75	11.80
P30	12.51	12.53
P25	13.38	13.38
P20	14.43	14.40
P15	15.71	15.69
P10	17.48	17.49
P5	20.42	20.56
P0	39.99	40.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	182.81
Standard Deviation	262.24

Selected range is from 50.00 to 3,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	179.92	178.46
Median	110.19	109.91
Mode	---	---
Standard Deviation	215.75	213.01
Variance	46,546.07	45,372.12
Skewness	4.93	4.95
Kurtosis	38.54	38.95
Coefficient of Variability	1.20	1.19
Minimum	50.31	50.00
Maximum	2,938.26	3,000.00
Range Width	2,887.95	2,950.00
Mean Standard Error	0.96	---

Assumption: Sizes of Oil Fields (cont'd)

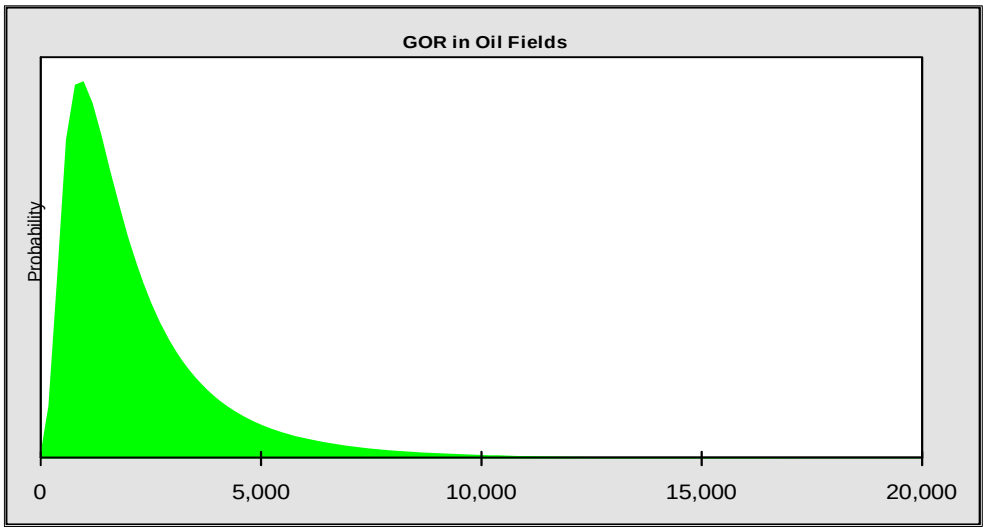
Percentiles:	Simulated values	Theoretical values
P100	50.31	50.00
P95	57.47	57.54
P90	61.95	61.92
P85	66.29	66.23
P80	70.87	70.75
P75	75.84	75.61
P70	81.15	80.94
P65	87.11	86.87
P60	93.95	93.54
P55	101.64	101.14
P50	110.19	109.91
P45	120.46	120.18
P40	132.95	132.41
P35	148.33	147.31
P30	167.13	165.92
P25	191.14	190.00
P20	224.45	222.72
P15	274.37	270.58
P10	354.64	349.89
P5	525.40	521.68
P0	2,938.26	3,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:

Mean	2,234.61
Standard Deviation	2,178.68

Selected range is from 0.00 to 20,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,218.99	2,211.05
Median	1,593.53	1,598.36
Mode	---	---
Standard Deviation	2,067.68	2,037.56
Variance	4,275,298.93	4,151,659.72
Skewness	2.75	2.70
Kurtosis	14.35	14.02
Coefficient of Variability	0.9318	0.9215
Minimum	58.71	0.00
Maximum	19,900.59	20,000.00
Range Width	19,841.88	20,000.00
Mean Standard Error	9.25	---

Assumption: GOR in Oil Fields (cont'd)

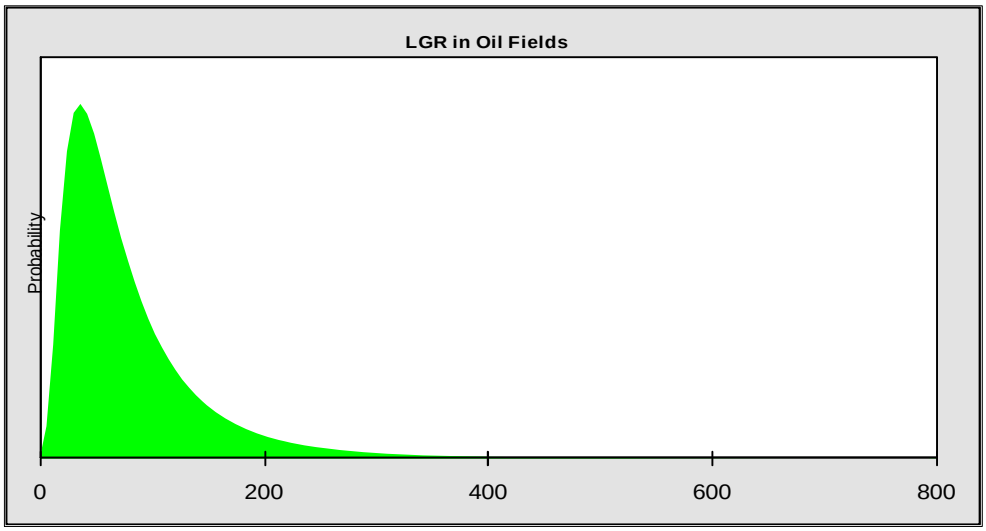
Percentiles:	Simulated values	Theoretical values
P100	58.71	0.00
P95	418.74	416.91
P90	557.98	561.03
P85	684.83	685.44
P80	802.10	803.71
P75	917.20	921.31
P70	1,037.24	1,041.50
P65	1,161.43	1,166.81
P60	1,297.89	1,299.62
P55	1,438.31	1,442.47
P50	1,593.51	1,598.36
P45	1,770.85	1,771.07
P40	1,963.00	1,965.64
P35	2,188.48	2,189.18
P30	2,450.59	2,452.23
P25	2,777.86	2,771.52
P20	3,184.07	3,175.93
P15	3,731.07	3,721.75
P10	4,558.39	4,541.91
P5	6,136.63	6,092.20
P0	19,900.59	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:

Mean	79.20
Standard Deviation	68.24

Selected range is from 0.00 to 600.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	78.74	78.53
Median	60.02	59.94
Mode	---	---
Standard Deviation	65.14	64.61
Variance	4,243.76	4,174.99
Skewness	2.43	2.40
Kurtosis	11.82	11.68
Coefficient of Variability	0.8273	0.8228
Minimum	2.24	0.00
Maximum	597.93	600.00
Range Width	595.70	600.00
Mean Standard Error	0.29	---

Assumption: LGR in Oil Fields (cont'd)

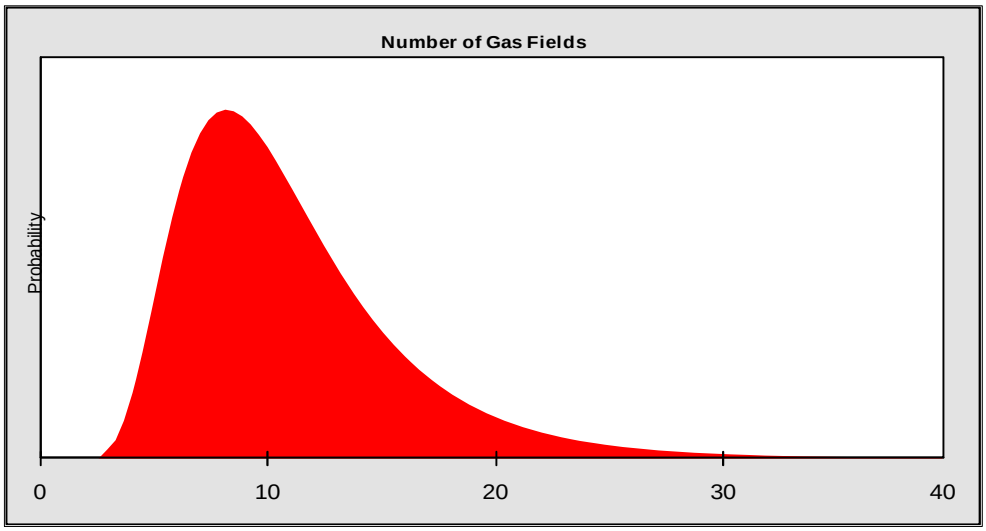
Percentiles:	Simulated values	Theoretical values
P100	2.24	0.00
P95	17.65	17.61
P90	23.03	23.08
P85	27.63	27.70
P80	32.14	32.03
P75	36.47	36.28
P70	40.63	40.57
P65	45.00	44.99
P60	49.70	49.64
P55	54.87	54.59
P50	60.01	59.94
P45	65.84	65.82
P40	72.51	72.38
P35	79.94	79.85
P30	89.02	88.55
P25	99.20	99.01
P20	111.98	112.10
P15	129.74	129.54
P10	154.53	155.32
P5	203.72	203.00
P0	597.93	600.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	11.07
Standard Deviation	5.06

Selected range is from 1.00 to 40.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	11.03	11.04
Median	10.01	9.99
Mode	---	---
Standard Deviation	4.90	4.94
Variance	24.01	24.40
Skewness	1.38	1.39
Kurtosis	5.82	5.88
Coefficient of Variability	0.4442	0.4475
Minimum	2.40	1.00
Maximum	39.88	40.00
Range Width	37.48	39.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (cont'd)

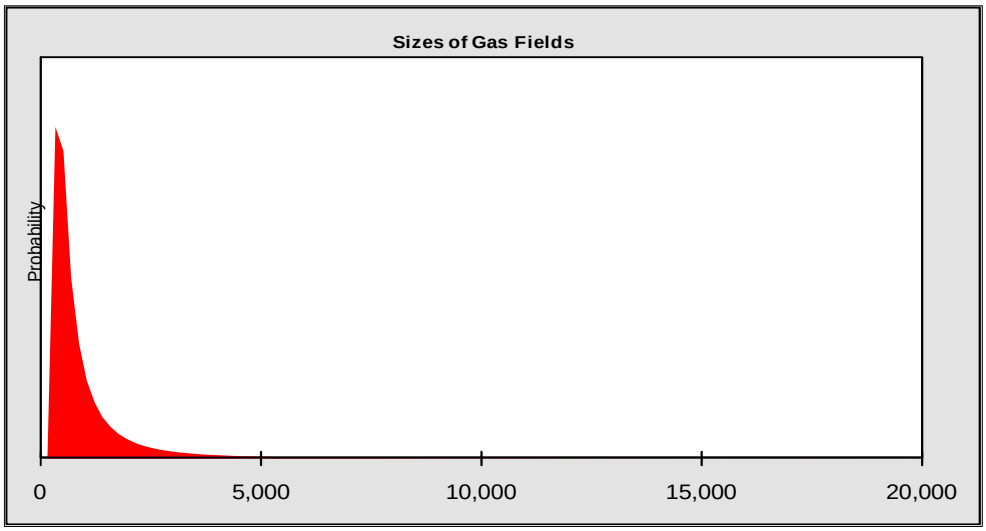
Percentiles:	Simulated values	Theoretical values
P100	2.40	1.00
P95	5.12	5.12
P90	5.93	5.90
P85	6.53	6.50
P80	7.05	7.03
P75	7.55	7.53
P70	8.03	8.01
P65	8.50	8.49
P60	8.99	8.98
P55	9.48	9.47
P50	10.01	9.99
P45	10.55	10.55
P40	11.16	11.14
P35	11.80	11.80
P30	12.53	12.53
P25	13.39	13.38
P20	14.38	14.40
P15	15.66	15.69
P10	17.46	17.49
P5	20.44	20.56
P0	39.88	40.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	1,096.83
Standard Deviation	1,573.47

Selected range is from 300.00 to 18,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,073.17	1,070.77
Median	658.85	659.43
Mode	---	---
Standard Deviation	1,277.32	1,278.04
Variance	1,631,533.72	1,633,396.34
Skewness	4.88	4.95
Kurtosis	37.90	38.95
Coefficient of Variability	1.19	1.19
Minimum	301.09	300.00
Maximum	17,919.65	18,000.00
Range Width	17,618.56	17,700.00
Mean Standard Error	5.71	---

Assumption: Sizes of Gas Fields (cont'd)

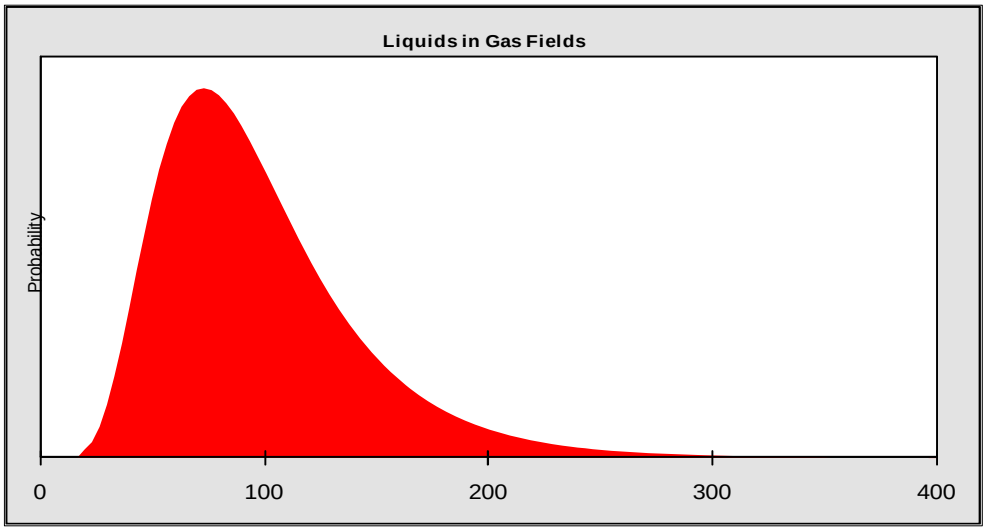
Percentiles:	Simulated values	Theoretical values
P100	301.09	300.00
P95	345.12	345.24
P90	372.27	371.51
P85	397.74	397.40
P80	424.93	424.49
P75	454.59	453.68
P70	486.15	485.67
P65	520.80	521.23
P60	560.79	561.24
P55	606.45	606.82
P50	658.80	659.43
P45	721.22	721.05
P40	794.81	794.48
P35	884.24	883.84
P30	995.59	995.49
P25	1,146.34	1,139.98
P20	1,349.81	1,336.33
P15	1,637.12	1,623.49
P10	2,104.12	2,099.32
P5	3,095.47	3,130.06
P0	17,919.65	18,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:

Mean	99.13
Standard Deviation	45.76

Selected range is from 0.00 to 350.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	98.65	98.83
Median	89.79	89.95
Mode	---	---
Standard Deviation	44.64	44.77
Variance	1,993.10	2,004.01
Skewness	1.28	1.28
Kurtosis	5.41	5.40
Coefficient of Variability	0.4526	0.4530
Minimum	14.26	0.00
Maximum	347.14	350.00
Range Width	332.88	350.00
Mean Standard Error	0.20	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	14.26	0.00
P95	43.98	43.67
P90	51.24	51.23
P85	57.10	57.05
P80	62.03	62.15
P75	66.61	66.89
P70	71.19	71.45
P65	75.63	75.95
P60	80.12	80.48
P55	84.96	85.12
P50	89.79	89.95
P45	94.99	95.05
P40	100.40	100.53
P35	106.37	106.53
P30	113.07	113.23
P25	120.65	120.93
P20	129.93	130.12
P15	141.40	141.70
P10	157.23	157.72
P5	184.33	184.70
P0	347.14	350.00

End of Assumptions

Simulation started on 8/8/2007 at 9:40:01
Simulation stopped on 8/8/2007 at 10:02:15