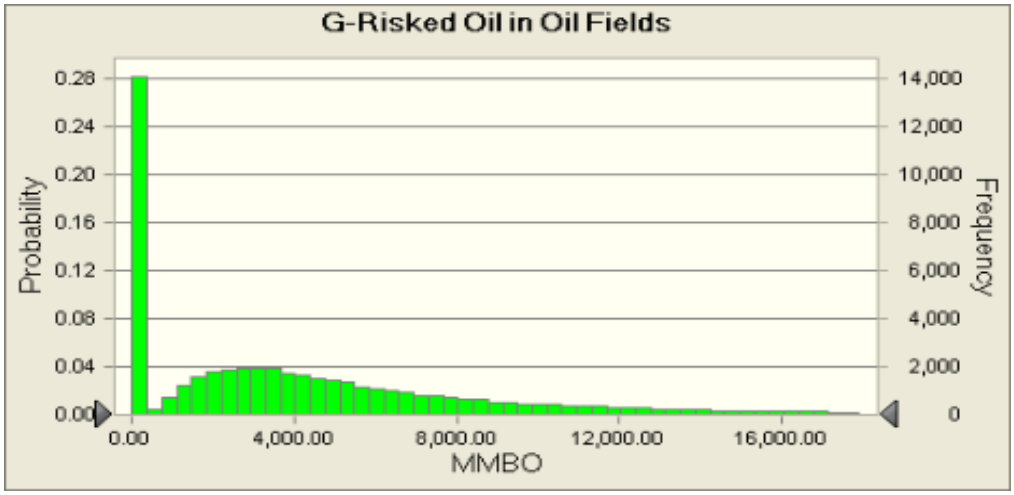
52000102
South Danmarkshavn Basin
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 48,828.93
After 50,000 trials, the standard error of the mean is 21.57



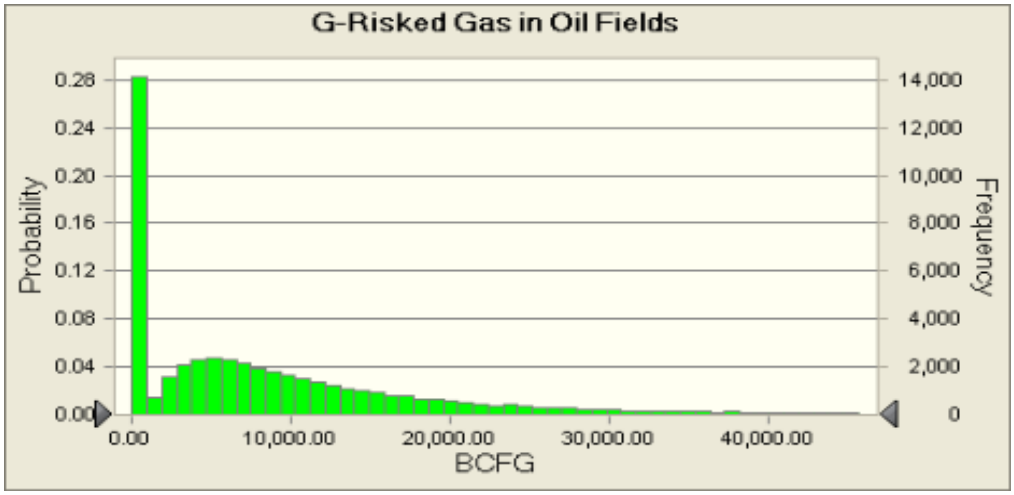
Statistics:	Forecast values
Trials	50,000
Mean	4,384.12
Median	3,228.45
Mode	0.00
Standard Deviation	4,822.34
Variance	23,254,927.83
Skewness	1.77
Kurtosis	7.56
Coefficient of Variability	1.10
Minimum	0.00
Maximum	48,828.93
Range Width	48,828.93
Mean Standard Error	21.57

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	1,095.04
P65	1,767.73
P60	2,270.96
P55	2,754.73
P50	3,228.24
P45	3,715.58
P40	4,257.97
P35	4,866.99
P30	5,540.86
P25	6,379.46
P20	7,403.03
P15	8,716.13
P10	10,653.73
P5	13,995.75
P0	48,828.93

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 229,712.06
After 50,000 trials, the standard error of the mean is 57.46



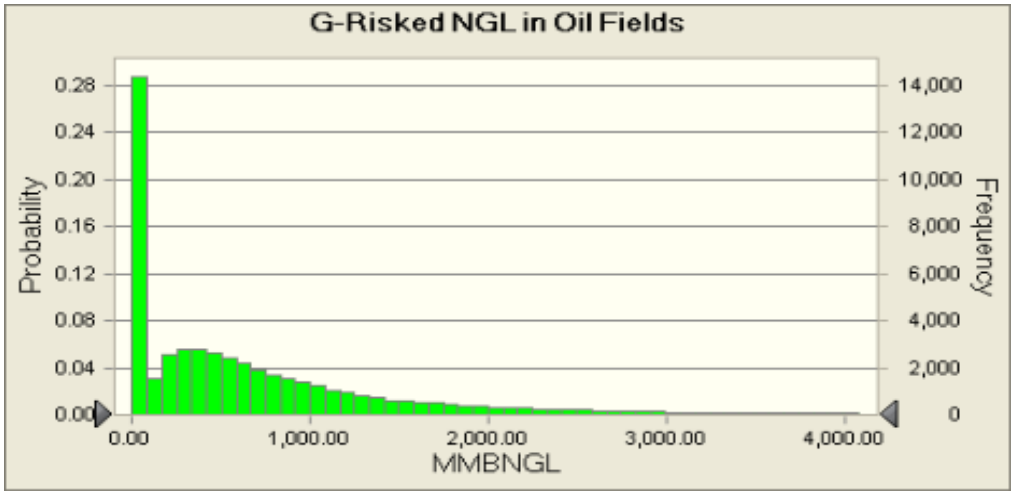
Statistics:	Forecast values
Trials	50,000
Mean	9,700.31
Median	6,325.41
Mode	0.00
Standard Deviation	12,848.42
Variance	165,081,916.00
Skewness	3.64
Kurtosis	28.73
Coefficient of Variability	1.32
Minimum	0.00
Maximum	229,712.06
Range Width	229,712.06
Mean Standard Error	57.46

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	1,961.97
P65	3,280.54
P60	4,320.11
P55	5,317.59
P50	6,325.19
P45	7,382.48
P40	8,586.85
P35	9,931.33
P30	11,478.49
P25	13,363.51
P20	15,647.68
P15	18,709.35
P10	23,343.45
P5	32,081.29
P0	229,712.06

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 32,695.17
After 50,000 trials, the standard error of the mean is 5.29



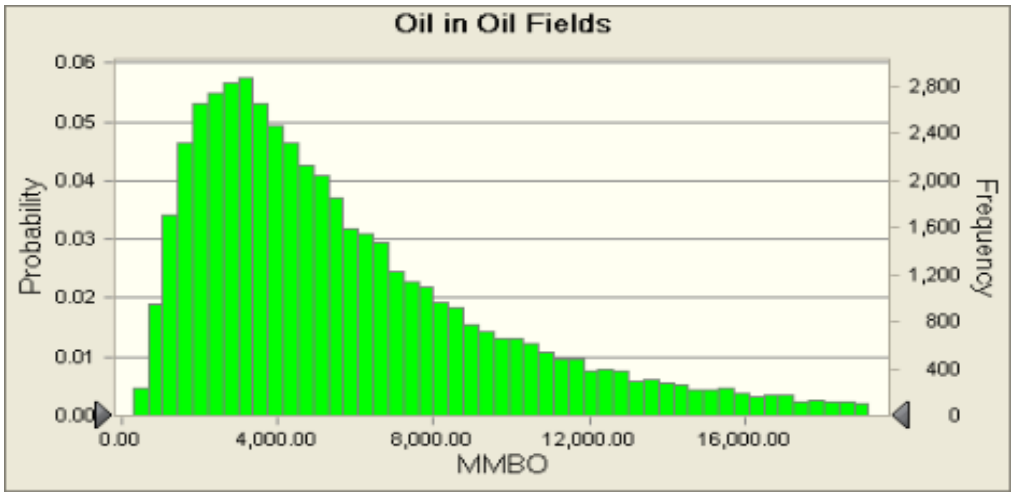
Statistics:	Forecast values
Trials	50,000
Mean	761.06
Median	448.63
Mode	0.00
Standard Deviation	1,183.48
Variance	1,400,614.67
Skewness	6.01
Kurtosis	78.83
Coefficient of Variability	1.56
Minimum	0.00
Maximum	32,695.17
Range Width	32,695.17
Mean Standard Error	5.29

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	127.38
P65	221.83
P60	298.31
P55	373.65
P50	448.63
P45	529.70
P40	622.89
P35	722.62
P30	844.05
P25	987.12
P20	1,167.91
P15	1,421.98
P10	1,829.54
P5	2,603.36
P0	32,695.17

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 283.57 to 48,828.93
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 20.89



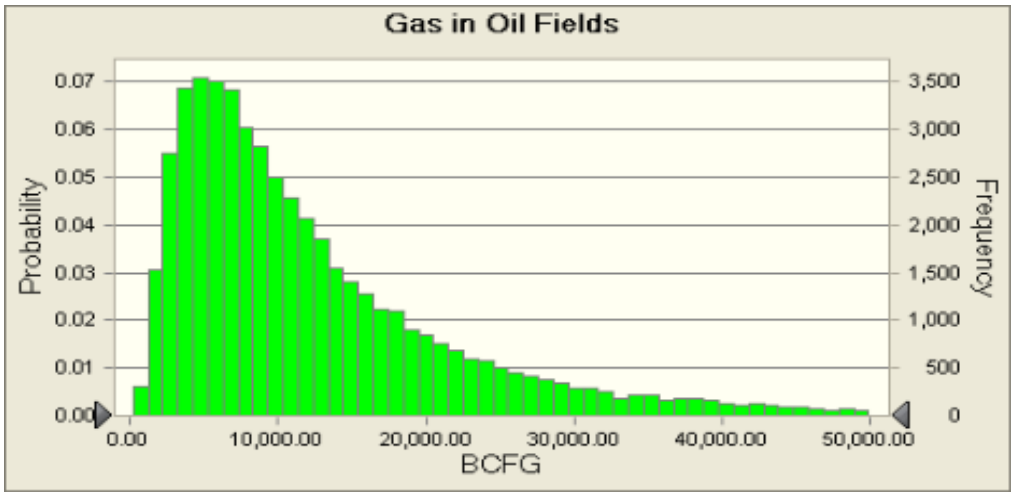
Statistics:	Forecast values
Trials	50,000
Mean	6,091.30
Median	4,750.16
Mode	---
Standard Deviation	4,670.79
Variance	21,816,249.69
Skewness	1.86
Kurtosis	7.94
Coefficient of Variability	0.7668
Minimum	283.57
Maximum	48,828.93
Range Width	48,545.36
Mean Standard Error	20.89

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

Percentiles:	MMBO
P100	283.57
P95	1,365.69
P90	1,795.86
P85	2,159.84
P80	2,511.99
P75	2,848.52
P70	3,189.26
P65	3,539.11
P60	3,908.94
P55	4,310.76
P50	4,750.16
P45	5,218.27
P40	5,737.60
P35	6,343.97
P30	7,031.34
P25	7,879.21
P20	8,911.67
P15	10,291.38
P10	12,225.74
P5	15,564.44
P0	48,828.93

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 145.95 to 296,268.50
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 58.49



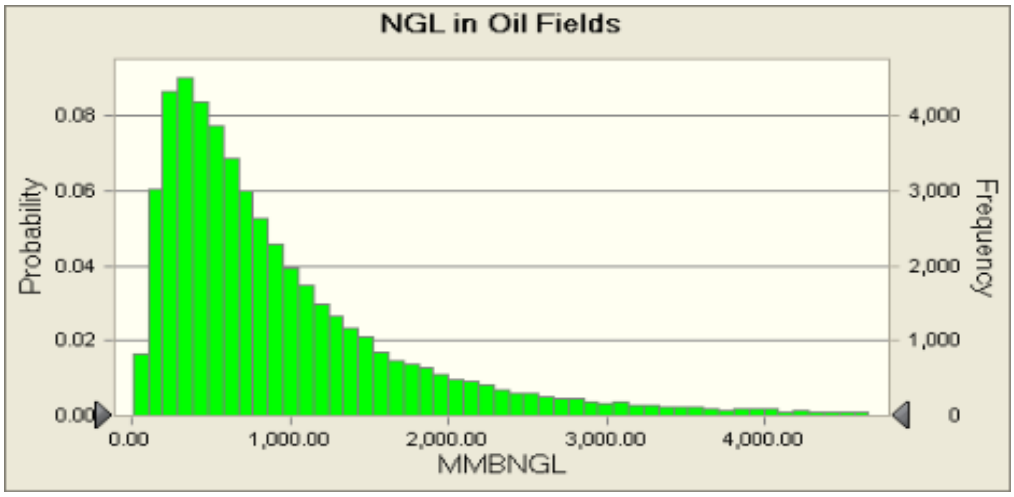
Statistics:	Forecast values
Trials	50,000
Mean	13,358.91
Median	9,568.34
Mode	---
Standard Deviation	13,077.93
Variance	171,032,350.49
Skewness	3.88
Kurtosis	34.98
Coefficient of Variability	0.9790
Minimum	145.95
Maximum	296,268.50
Range Width	296,122.55
Mean Standard Error	58.49

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

Percentiles:	BCFG
P100	145.95
P95	2,469.15
P90	3,327.30
P85	4,064.29
P80	4,775.67
P75	5,500.00
P70	6,230.43
P65	6,974.83
P60	7,767.50
P55	8,654.01
P50	9,567.69
P45	10,613.91
P40	11,766.86
P35	13,078.59
P30	14,704.73
P25	16,676.48
P20	19,107.59
P15	22,361.97
P10	27,279.20
P5	36,832.35
P0	296,268.50

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 7.77 to 44,417.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.76



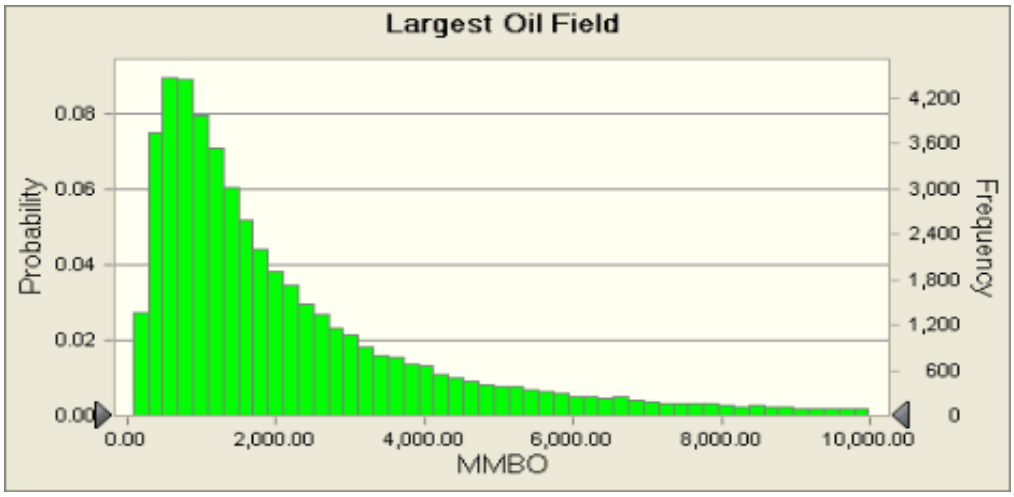
Statistics:	Forecast values
Trials	50,000
Mean	1,048.04
Median	696.78
Mode	---
Standard Deviation	1,287.80
Variance	1,658,420.68
Skewness	6.69
Kurtosis	100.63
Coefficient of Variability	1.23
Minimum	7.77
Maximum	44,417.96
Range Width	44,410.19
Mean Standard Error	5.76

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

Percentiles:	MMBNGL
P100	7.77
P95	161.66
P90	224.92
P85	278.17
P80	330.34
P75	383.52
P70	438.07
P65	496.02
P60	557.64
P55	622.40
P50	696.77
P45	775.84
P40	867.84
P35	972.57
P30	1,099.31
P25	1,252.66
P20	1,447.49
P15	1,726.24
P10	2,145.96
P5	3,013.14
P0	44,417.96

Forecast: Largest Oil Field

Summary:
Entire range is from 75.98 to 17,987.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 11.98



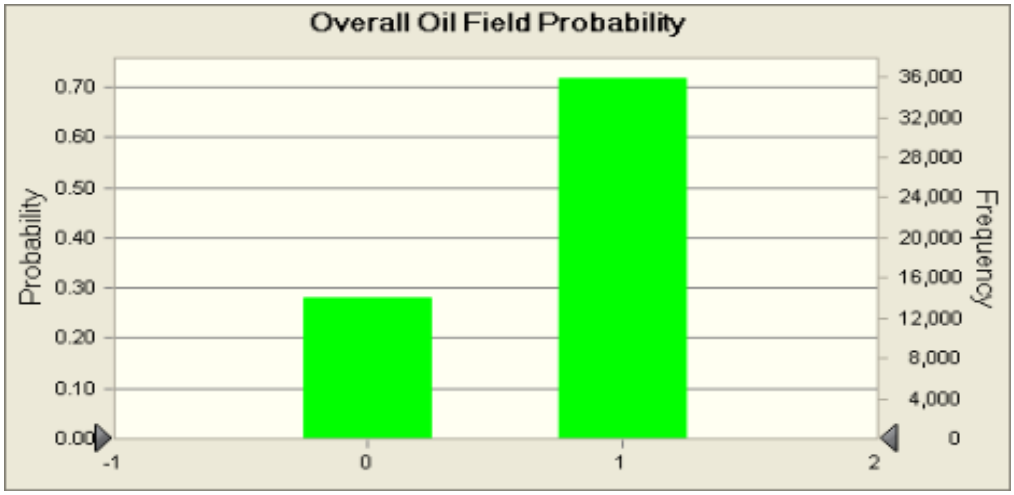
Statistics:	Forecast values
Trials	50,000
Mean	2,468.80
Median	1,524.42
Mode	---
Standard Deviation	2,679.85
Variance	7,181,580.37
Skewness	2.48
Kurtosis	10.35
Coefficient of Variability	1.09
Minimum	75.98
Maximum	17,987.28
Range Width	17,911.30
Mean Standard Error	11.98

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	75.98
P95	348.86
P90	475.48
P85	588.32
P80	701.52
P75	815.27
P70	932.19
P65	1,061.22
P60	1,196.05
P55	1,353.22
P50	1,524.32
P45	1,727.05
P40	1,964.64
P35	2,238.62
P30	2,586.81
P25	3,012.49
P20	3,595.64
P15	4,388.88
P10	5,644.05
P5	8,102.34
P0	17,987.28

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



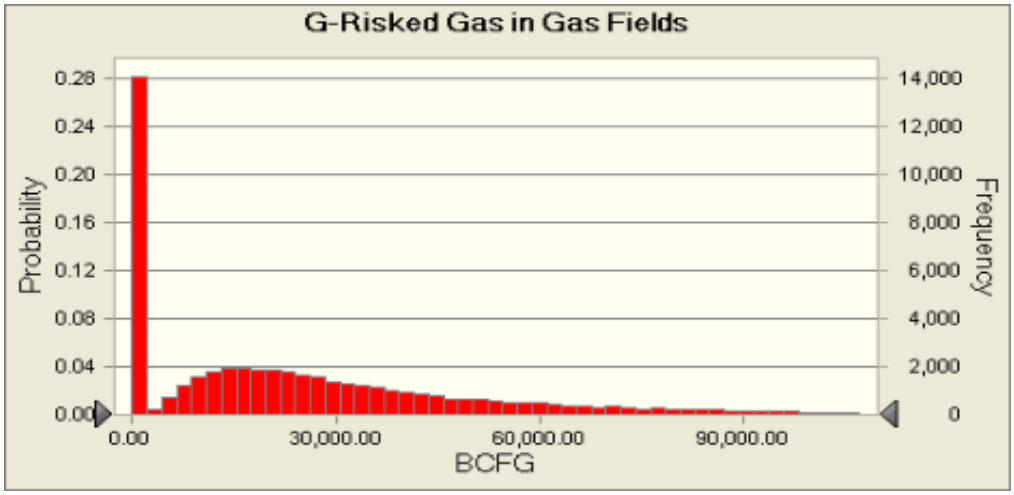
Statistics:	Forecast values	
Trials	50,000	
Mean	0.7191	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.45	
Variance	0.20	
Skewness	-0.9747	
Kurtosis	1.95	
Coefficient of Variability	0.6251	
Minimum	0.00	
Maximum	1.00	
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	1.00
P65	1.00
P60	1.00
P55	1.00
P50	1.00
P45	1.00
P40	1.00
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 281,790.72
After 50,000 trials, the standard error of the mean is 128.81



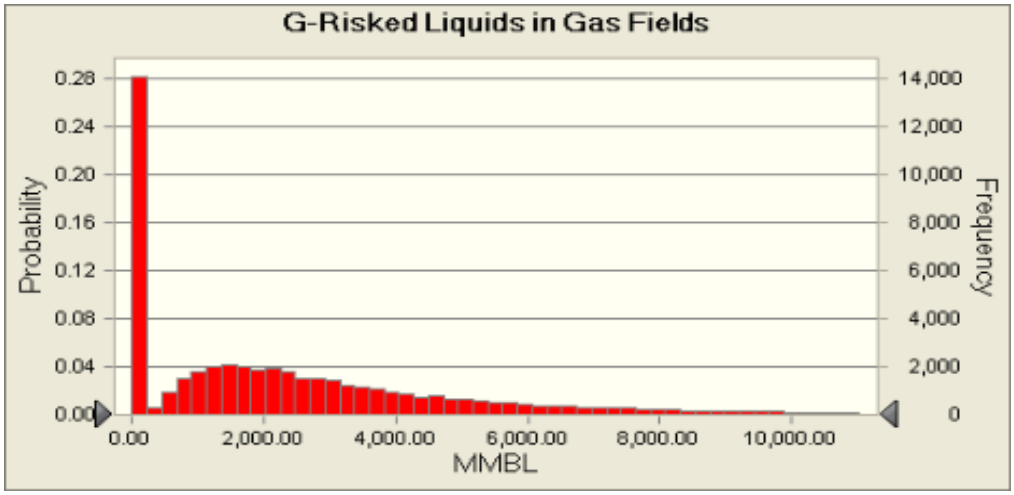
Statistics:	Forecast values
Trials	50,000
Mean	26,251.49
Median	19,343.89
Mode	0.00
Standard Deviation	28,802.63
Variance	829,591,670.82
Skewness	1.74
Kurtosis	7.31
Coefficient of Variability	1.10
Minimum	0.00
Maximum	281,790.72
Range Width	281,790.72
Mean Standard Error	128.81

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	6,577.39
P65	10,607.70
P60	13,635.86
P55	16,461.27
P50	19,343.37
P45	22,328.97
P40	25,493.57
P35	29,085.52
P30	33,232.61
P25	38,130.42
P20	44,178.09
P15	52,543.37
P10	63,917.78
P5	83,621.43
P0	281,790.72

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 41,884.65
After 50,000 trials, the standard error of the mean is 13.43



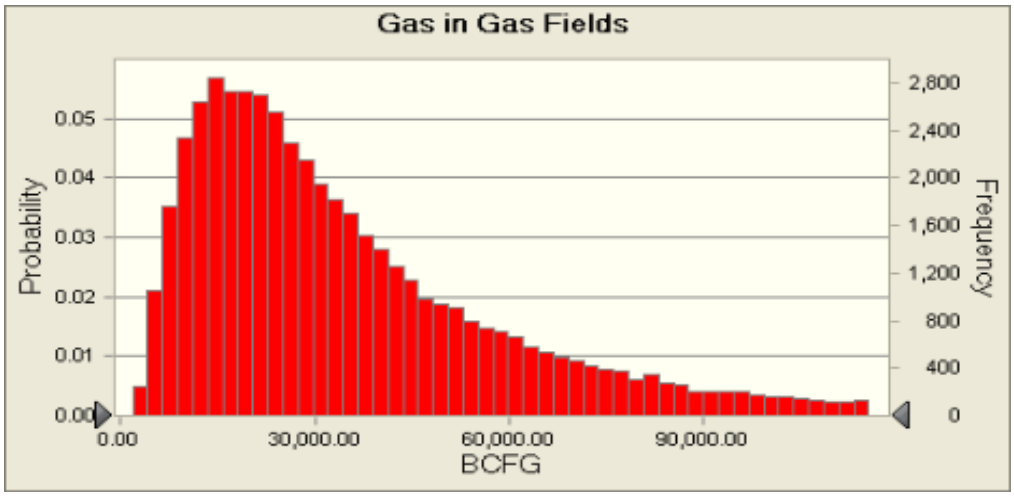
Statistics:	Forecast values
Trials	50,000
Mean	2,598.15
Median	1,843.72
Mode	0.00
Standard Deviation	3,002.90
Variance	9,017,391.29
Skewness	2.19
Kurtosis	11.13
Coefficient of Variability	1.16
Minimum	0.00
Maximum	41,884.65
Range Width	41,884.65
Mean Standard Error	13.43

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	611.99
P65	992.88
P60	1,289.31
P55	1,564.28
P50	1,843.63
P45	2,138.48
P40	2,453.92
P35	2,821.72
P30	3,220.90
P25	3,710.21
P20	4,327.57
P15	5,136.98
P10	6,329.09
P5	8,362.22
P0	41,884.65

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 1,860.30 to 281,790.72
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 125.80



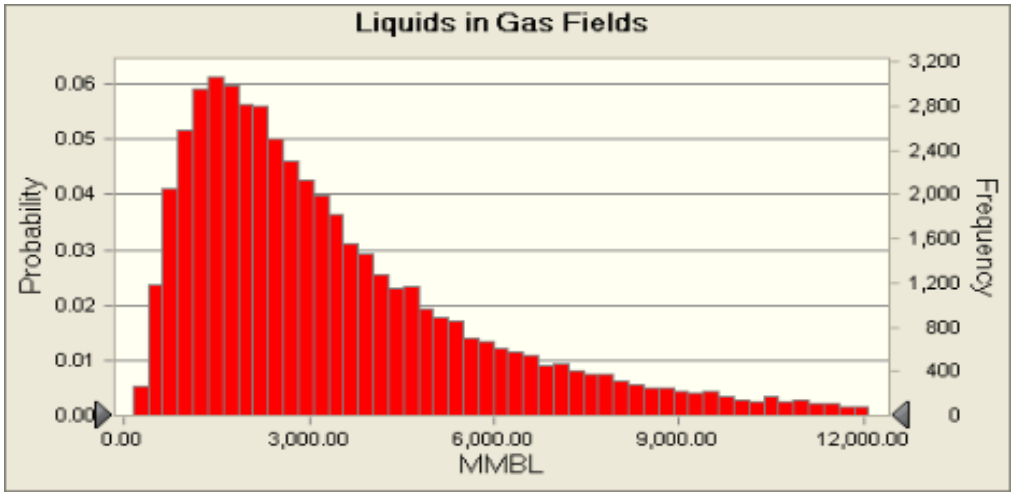
Statistics:	Forecast values
Trials	50,000
Mean	36,706.91
Median	28,482.35
Mode	---
Standard Deviation	28,129.52
Variance	791,269,617.58
Skewness	1.84
Kurtosis	7.71
Coefficient of Variability	0.7663
Minimum	1,860.30
Maximum	281,790.72
Range Width	279,930.42
Mean Standard Error	125.80

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

Percentiles:	BCFG
P100	1,860.30
P95	8,148.29
P90	10,789.74
P85	12,992.79
P80	15,062.65
P75	17,143.08
P70	19,264.04
P65	21,402.16
P60	23,591.58
P55	25,969.08
P50	28,481.88
P45	31,414.08
P40	34,619.32
P35	38,210.56
P30	42,399.08
P25	47,523.82
P20	53,977.64
P15	62,065.39
P10	73,732.14
P5	94,022.57
P0	281,790.72

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 135.17 to 41,884.65
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 13.49



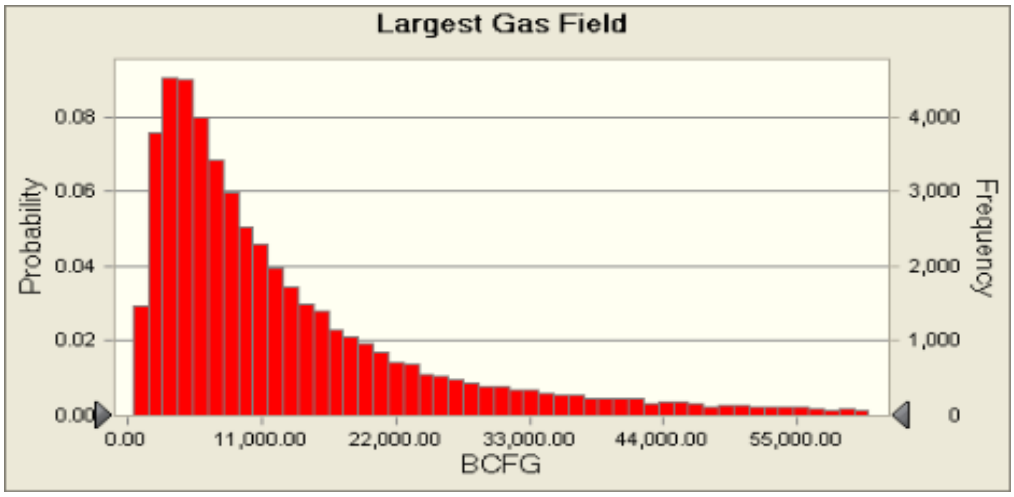
Statistics:	Forecast values
Trials	50,000
Mean	3,638.42
Median	2,761.62
Mode	---
Standard Deviation	3,015.99
Variance	9,096,202.11
Skewness	2.35
Kurtosis	12.13
Coefficient of Variability	0.8289
Minimum	135.17
Maximum	41,884.65
Range Width	41,749.49
Mean Standard Error	13.49

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

Percentiles:	MMBL
P100	135.17
P95	762.74
P90	1,011.71
P85	1,230.69
P80	1,435.21
P75	1,628.91
P70	1,835.11
P65	2,052.53
P60	2,267.86
P55	2,495.70
P50	2,761.57
P45	3,048.43
P40	3,361.02
P35	3,714.58
P30	4,133.20
P25	4,655.56
P20	5,280.87
P15	6,142.39
P10	7,358.87
P5	9,487.98
P0	41,884.65

Forecast: Largest Gas Field

Summary:
Entire range is from 453.57 to 109,950.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 73.26



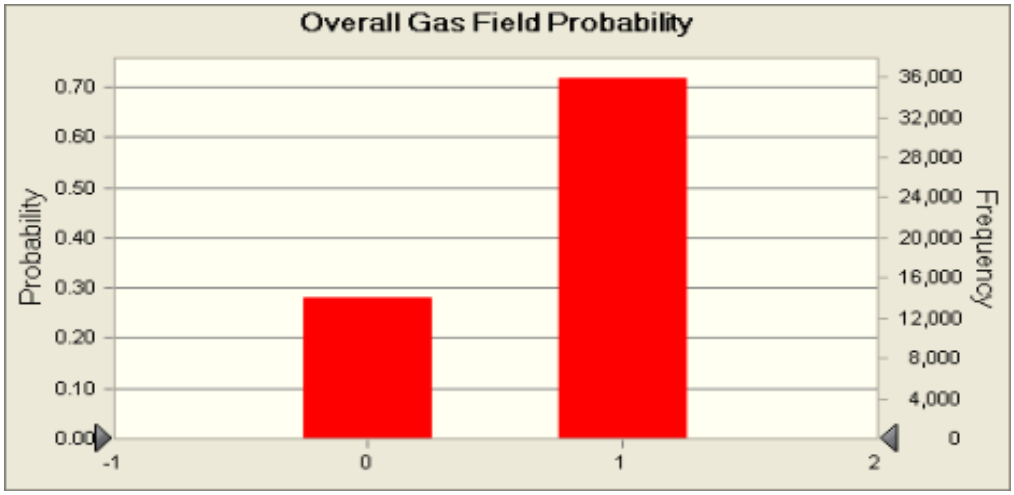
Statistics:	Forecast values
Trials	50,000
Mean	14,947.77
Median	9,249.21
Mode	---
Standard Deviation	16,382.29
Variance	268,379,440.87
Skewness	2.52
Kurtosis	10.56
Coefficient of Variability	1.10
Minimum	453.57
Maximum	109,950.49
Range Width	109,496.93
Mean Standard Error	73.26

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	453.57
P95	2,071.86
P90	2,839.47
P85	3,534.92
P80	4,211.05
P75	4,875.20
P70	5,605.89
P65	6,369.88
P60	7,220.02
P55	8,173.75
P50	9,249.15
P45	10,482.03
P40	11,880.94
P35	13,511.23
P30	15,577.03
P25	18,140.84
P20	21,410.15
P15	26,426.48
P10	34,356.95
P5	49,214.88
P0	109,950.49

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	0.7191	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.45	
Variance	0.20	
Skewness	-0.9747	
Kurtosis	1.95	
Coefficient of Variability	0.6251	
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	1.00
P65	1.00
P60	1.00
P55	1.00
P50	1.00
P45	1.00
P40	1.00
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

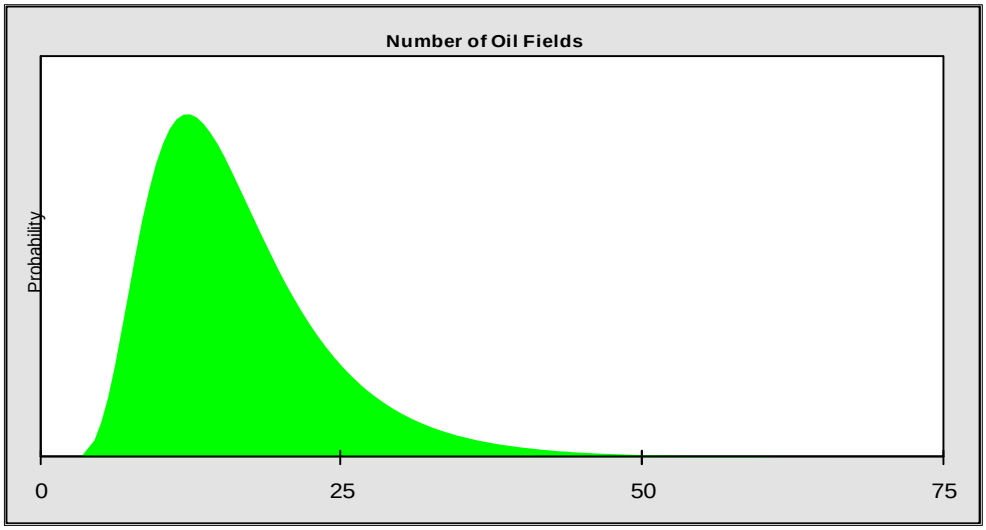
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	16.60
Standard Deviation	7.68

Selected range is from 1.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	16.57	16.55
Median	14.99	14.99
Mode	---	---
Standard Deviation	7.52	7.49
Variance	56.51	56.17
Skewness	1.35	1.36
Kurtosis	5.70	5.75
Coefficient of Variability	0.4537	0.4528
Minimum	3.15	1.00
Maximum	59.79	60.00
Range Width	56.65	59.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (cont'd)

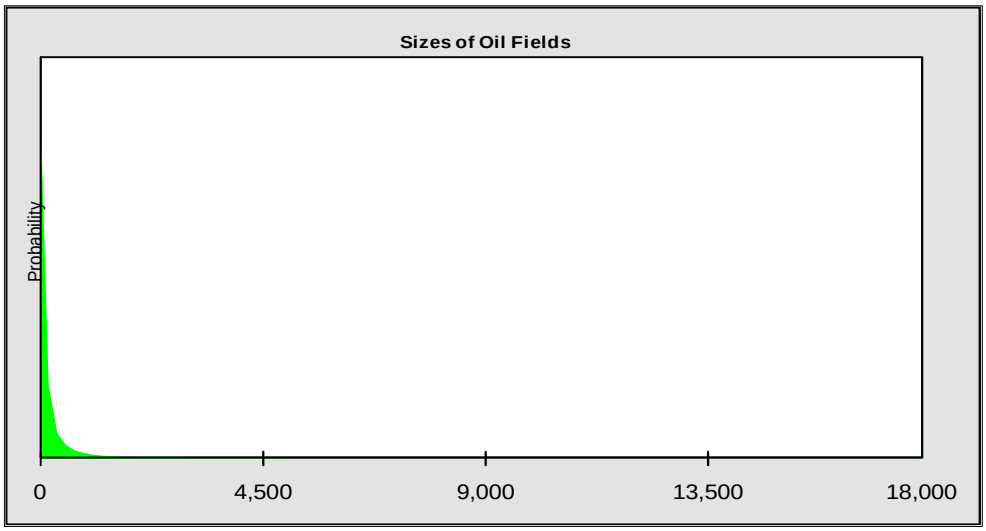
Percentiles:	Simulated values	Theoretical values
P100	3.15	1.00
P95	7.50	7.51
P90	8.67	8.71
P85	9.63	9.64
P80	10.47	10.46
P75	11.25	11.22
P70	11.98	11.96
P65	12.71	12.70
P60	13.44	13.44
P55	14.19	14.20
P50	14.99	14.99
P45	15.86	15.83
P40	16.73	16.74
P35	17.74	17.74
P30	18.86	18.85
P25	20.20	20.14
P20	21.77	21.69
P15	23.78	23.64
P10	26.44	26.36
P5	31.01	30.98
P0	59.79	60.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	400.61
Standard Deviation	1,720.78

Selected range is from 50.00 to 18,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	367.37	371.19
Median	119.16	119.84
Mode	---	---
Standard Deviation	921.20	921.65
Variance	848,603.36	849,434.08
Skewness	8.09	8.35
Kurtosis	93.05	100.02
Coefficient of Variability	2.51	2.48
Minimum	50.06	50.00
Maximum	17,730.70	18,000.00
Range Width	17,680.65	17,950.00
Mean Standard Error	4.12	---

Assumption: Sizes of Oil Fields (cont'd)

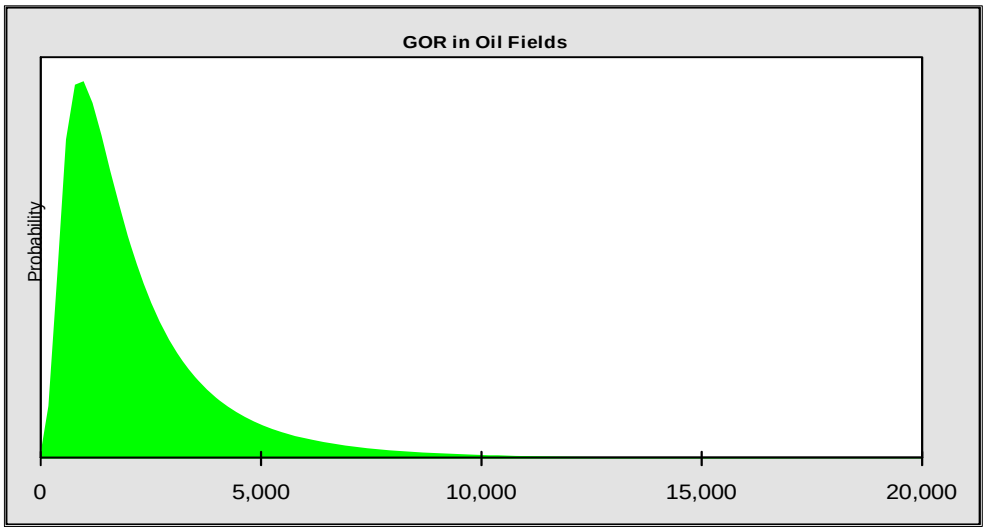
Percentiles:	Simulated values	Theoretical values
P100	50.06	50.00
P95	53.54	53.65
P90	56.91	57.01
P85	60.94	60.88
P80	65.53	65.43
P75	70.92	70.83
P70	77.41	77.26
P65	85.36	84.99
P60	94.75	94.34
P55	105.62	105.75
P50	119.16	119.84
P45	136.21	137.49
P40	158.34	160.00
P35	188.27	189.36
P30	228.61	228.79
P25	284.32	283.93
P20	362.64	365.50
P15	495.60	496.95
P10	745.01	742.16
P5	1,365.37	1,369.15
P0	17,730.70	18,000.00

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	2,205.80	2,211.05
Median	1,595.64	1,598.36
Mode	---	---
Standard Deviation	2,022.81	2,037.56
Variance	4,091,745.19	4,151,659.72
Skewness	2.64	2.70
Kurtosis	13.44	14.02
Coefficient of Variability	0.9170	0.9215
Minimum	57.11	0.00
Maximum	19,980.47	20,000.00
Range Width	19,923.36	20,000.00
Mean Standard Error	9.05	---

Assumption: GOR in Oil Fields (cont'd)

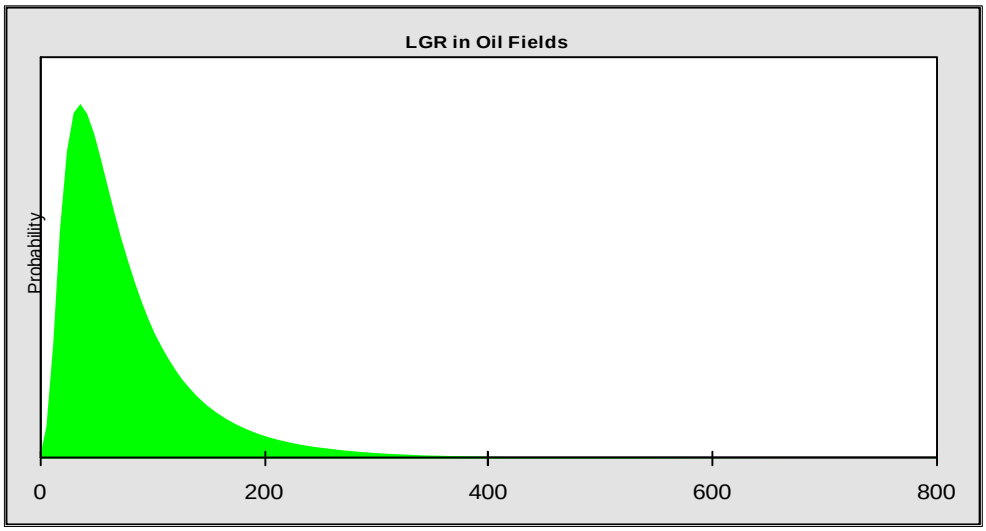
Percentiles:	Simulated values	Theoretical values
P100	57.11	0.00
P95	413.63	416.91
P90	554.25	561.03
P85	681.41	685.44
P80	802.99	803.71
P75	921.44	921.31
P70	1,042.95	1,041.50
P65	1,166.95	1,166.81
P60	1,299.02	1,299.62
P55	1,441.70	1,442.47
P50	1,595.59	1,598.36
P45	1,763.77	1,771.07
P40	1,957.37	1,965.64
P35	2,183.93	2,189.18
P30	2,447.00	2,452.23
P25	2,772.12	2,771.52
P20	3,172.00	3,175.93
P15	3,724.06	3,721.75
P10	4,544.07	4,541.91
P5	6,099.84	6,092.20
P0	19,980.47	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	78.83	78.53
Median	59.82	59.94
Mode	---	---
Standard Deviation	65.70	64.61
Variance	4,316.99	4,174.99
Skewness	2.43	2.40
Kurtosis	11.84	11.68
Coefficient of Variability	0.8335	0.8228
Minimum	2.81	0.00
Maximum	595.98	600.00
Range Width	593.17	600.00
Mean Standard Error	0.29	---

Assumption: LGR in Oil Fields (cont'd)

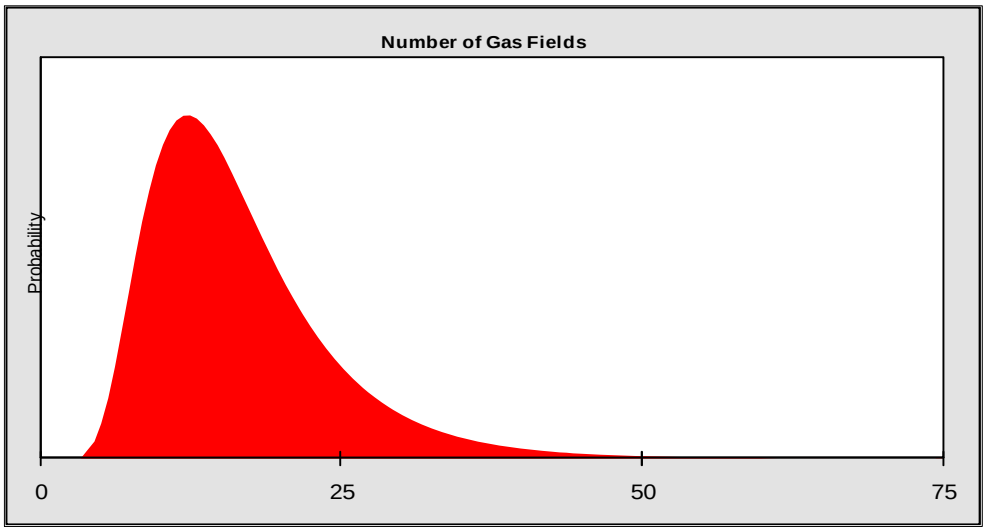
Percentiles:	Simulated values	Theoretical values
P100	2.81	0.00
P95	17.58	17.61
P90	23.01	23.08
P85	27.70	27.70
P80	31.91	32.03
P75	36.08	36.28
P70	40.30	40.57
P65	44.76	44.99
P60	49.33	49.64
P55	54.31	54.59
P50	59.82	59.94
P45	65.69	65.82
P40	72.40	72.38
P35	80.03	79.85
P30	88.64	88.55
P25	99.16	99.01
P20	112.25	112.10
P15	129.78	129.54
P10	156.15	155.32
P5	205.34	203.00
P0	595.98	600.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	16.60
Standard Deviation	7.68

Selected range is from 1.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	16.57	16.55
Median	15.01	14.99
Mode	---	---
Standard Deviation	7.48	7.49
Variance	55.91	56.17
Skewness	1.35	1.36
Kurtosis	5.63	5.75
Coefficient of Variability	0.4513	0.4528
Minimum	3.19	1.00
Maximum	59.94	60.00
Range Width	56.75	59.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (cont'd)

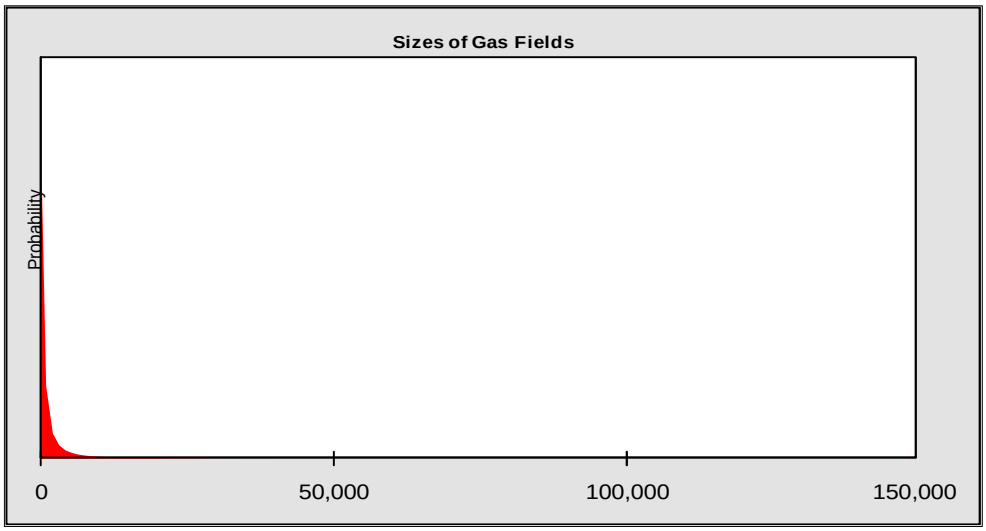
Percentiles:	Simulated values	Theoretical values
P100	3.19	1.00
P95	7.54	7.51
P90	8.74	8.71
P85	9.66	9.64
P80	10.48	10.46
P75	11.25	11.22
P70	12.00	11.96
P65	12.73	12.70
P60	13.46	13.44
P55	14.22	14.20
P50	15.01	14.99
P45	15.85	15.83
P40	16.81	16.74
P35	17.77	17.74
P30	18.88	18.85
P25	20.15	20.14
P20	21.66	21.69
P15	23.64	23.64
P10	26.34	26.36
P5	31.03	30.98
P0	59.94	60.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	2,426.32
Standard Deviation	10,552.77

Selected range is from 300.00 to 110,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2,246.49	2,246.47
Median	717.92	719.05
Mode	---	---
Standard Deviation	5,727.76	5,614.31
Variance	32,807,199.69	31,520,469.60
Skewness	8.24	8.39
Kurtosis	97.07	100.90
Coefficient of Variability	2.55	2.50
Minimum	300.15	300.00
Maximum	105,425.96	110,000.00
Range Width	105,125.82	109,700.00
Mean Standard Error	25.62	---

Assumption: Sizes of Gas Fields (cont'd)

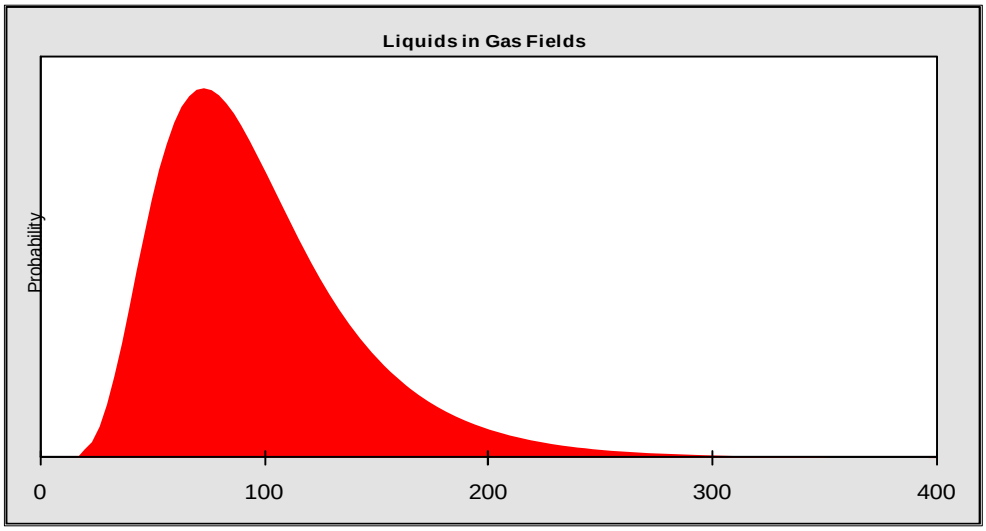
Percentiles:	Simulated values	Theoretical values
P100	300.15	300.00
P95	322.15	321.69
P90	341.80	341.72
P85	364.35	364.87
P80	390.78	392.13
P75	423.07	424.47
P70	460.41	463.08
P65	505.91	509.47
P60	560.86	565.63
P55	630.33	634.25
P50	717.88	719.05
P45	821.29	825.35
P40	953.75	961.00
P35	1,131.67	1,138.05
P30	1,367.17	1,376.10
P25	1,694.89	1,709.22
P20	2,189.11	2,202.48
P15	3,012.75	2,998.27
P10	4,516.07	4,484.67
P5	8,538.60	8,292.37
P0	105,425.96	110,000.00

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	98.45	98.83
Median	89.39	89.95
Mode	---	---
Standard Deviation	44.82	44.77
Variance	2,008.69	2,004.01
Skewness	1.29	1.28
Kurtosis	5.41	5.40
Coefficient of Variability	0.4552	0.4530
Minimum	13.15	0.00
Maximum	349.92	350.00
Range Width	336.77	350.00
Mean Standard Error	0.20	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	13.15	0.00
P95	43.63	43.67
P90	51.23	51.23
P85	56.85	57.05
P80	61.83	62.15
P75	66.47	66.89
P70	71.00	71.45
P65	75.46	75.95
P60	80.03	80.48
P55	84.61	85.12
P50	89.39	89.95
P45	94.51	95.05
P40	99.99	100.53
P35	105.87	106.53
P30	112.55	113.23
P25	120.29	120.93
P20	129.75	130.12
P15	141.65	141.70
P10	157.38	157.72
P5	185.08	184.70
P0	349.92	350.00

End of Assumptions

Simulation started on 8/8/2007 at 9:11:27
Simulation stopped on 8/8/2007 at 9:32:54