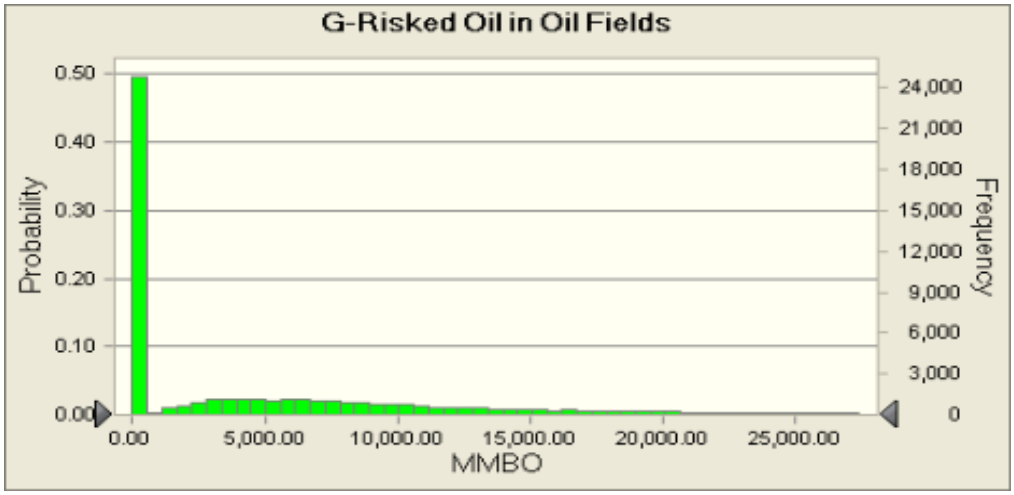
10500103
North Barents Basin
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 82,120.96
After 50,000 trials, the standard error of the mean is 35.18



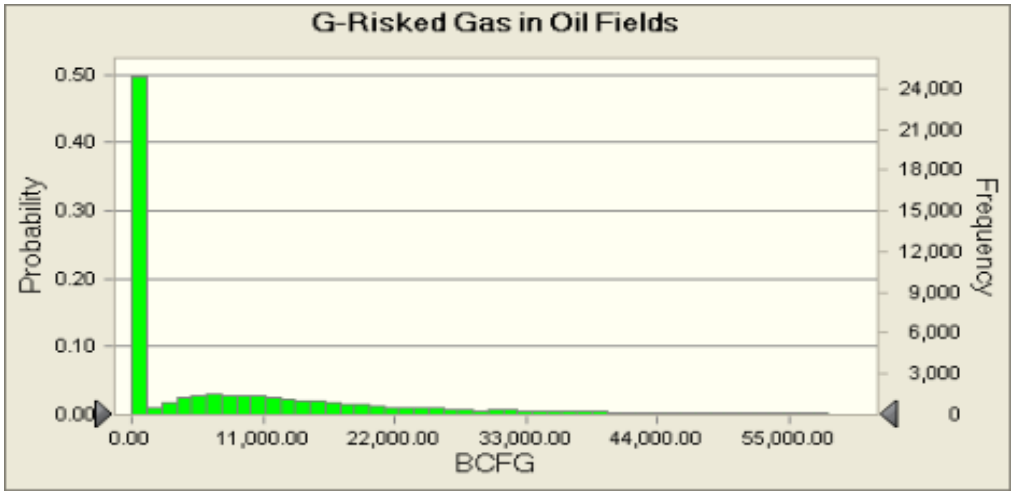
Statistics:	Forecast values
Trials	50,000
Mean	5,322.16
Median	1,197.26
Mode	0.00
Standard Deviation	7,866.13
Variance	61,875,966.18
Skewness	2.14
Kurtosis	9.02
Coefficient of Variability	1.48
Minimum	0.00
Maximum	82,120.96
Range Width	82,120.96
Mean Standard Error	35.18

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	1,197.00
P45	3,094.56
P40	4,322.61
P35	5,567.57
P30	6,828.18
P25	8,246.93
P20	9,986.24
P15	12,253.22
P10	15,621.81
P5	21,424.05
P0	82,120.96

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 571,178.73
After 50,000 trials, the standard error of the mean is 80.89



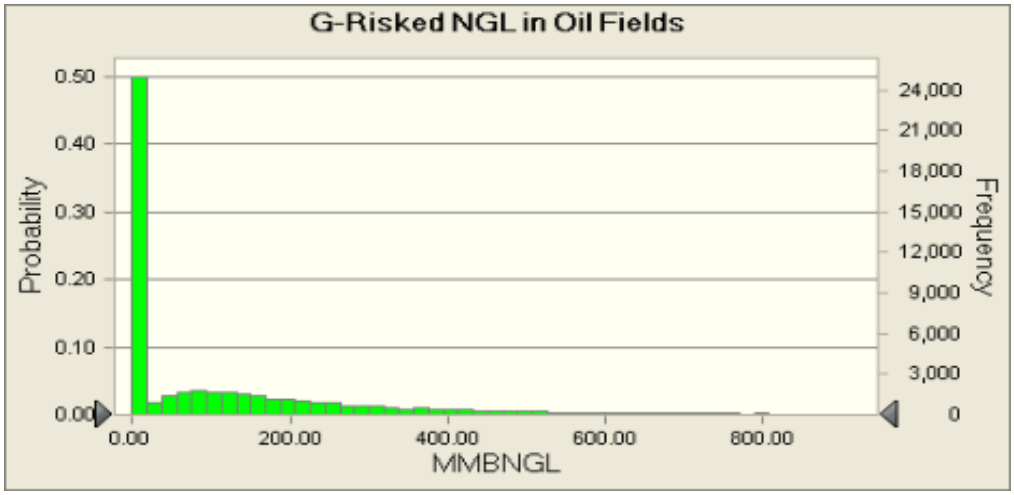
Statistics:	Forecast values
Trials	50,000
Mean	10,144.56
Median	1,748.43
Mode	0.00
Standard Deviation	18,087.13
Variance	327,144,338.15
Skewness	5.32
Kurtosis	78.01
Coefficient of Variability	1.78
Minimum	0.00
Maximum	571,178.73
Range Width	571,178.73
Mean Standard Error	80.89

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	1,744.36
P45	4,914.60
P40	7,044.31
P35	9,185.04
P30	11,466.71
P25	14,216.62
P20	17,538.74
P15	22,048.25
P10	28,588.96
P5	41,460.31
P0	571,178.73

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 12,851.18
After 50,000 trials, the standard error of the mean is 1.25



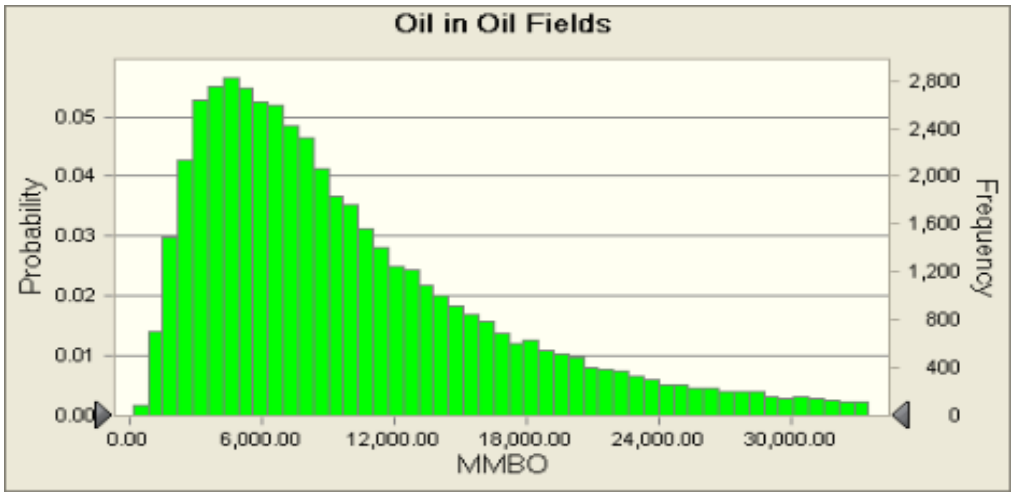
Statistics:	Forecast values
Trials	50,000
Mean	137.10
Median	19.66
Mode	0.00
Standard Deviation	279.42
Variance	78,073.98
Skewness	8.19
Kurtosis	175.66
Coefficient of Variability	2.04
Minimum	0.00
Maximum	12,851.18
Range Width	12,851.18
Mean Standard Error	1.25

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	19.60
P45	59.65
P40	87.37
P35	114.87
P30	144.78
P25	180.72
P20	224.69
P15	283.08
P10	375.52
P5	556.81
P0	12,851.18

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 119.09 to 82,120.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 36.70



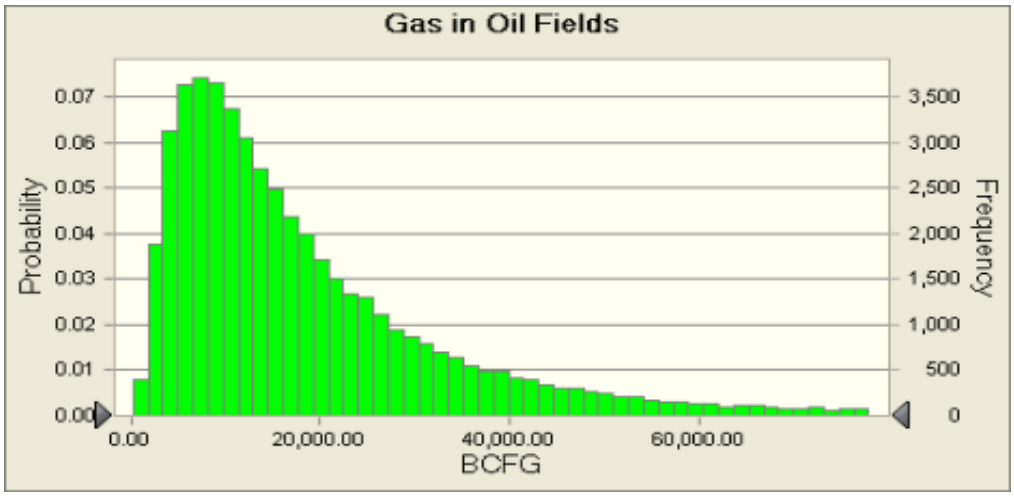
Statistics:	Forecast values
Trials	50,000
Mean	10,567.72
Median	8,199.44
Mode	---
Standard Deviation	8,205.86
Variance	67,336,131.94
Skewness	1.85
Kurtosis	7.87
Coefficient of Variability	0.7765
Minimum	119.09
Maximum	82,120.96
Range Width	82,001.87
Mean Standard Error	36.70

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

Percentiles:	MMBO
P100	119.09
P95	2,242.72
P90	2,995.84
P85	3,629.66
P80	4,255.14
P75	4,858.52
P70	5,471.72
P65	6,111.21
P60	6,763.46
P55	7,474.19
P50	8,199.42
P45	9,014.75
P40	9,957.55
P35	10,995.77
P30	12,253.65
P25	13,729.16
P20	15,533.37
P15	17,968.16
P10	21,337.64
P5	27,355.37
P0	82,120.96

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 181.40 to 571,178.73
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 92.46



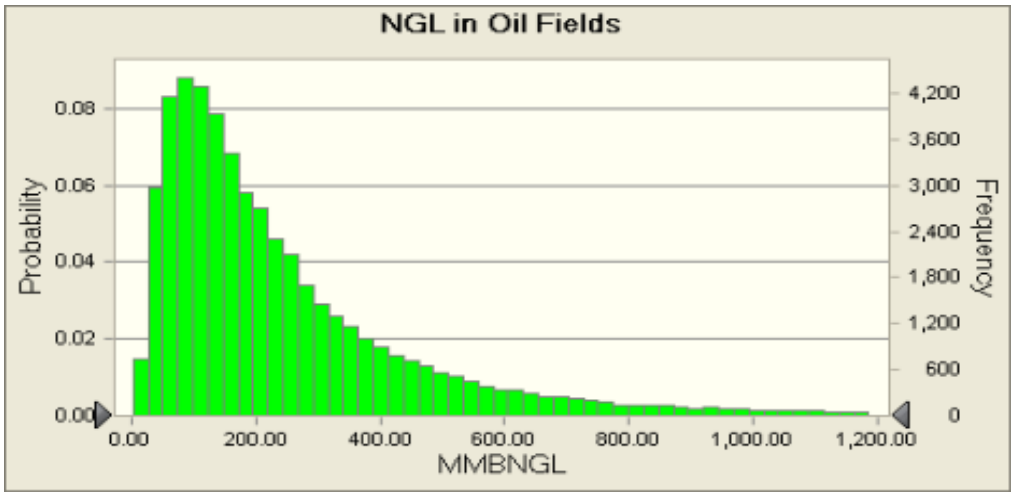
Statistics:	Forecast values
Trials	50,000
Mean	20,073.03
Median	14,117.75
Mode	---
Standard Deviation	20,675.17
Variance	427,462,479.81
Skewness	4.56
Kurtosis	53.54
Coefficient of Variability	1.03
Minimum	181.40
Maximum	571,178.73
Range Width	570,997.33
Mean Standard Error	92.46

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

Percentiles:	BCFG
P100	181.40
P95	3,485.96
P90	4,749.14
P85	5,888.36
P80	6,944.88
P75	8,008.80
P70	9,080.58
P65	10,199.93
P60	11,396.33
P55	12,699.83
P50	14,117.75
P45	15,679.14
P40	17,480.93
P35	19,482.24
P30	21,903.95
P25	24,854.22
P20	28,484.17
P15	33,546.59
P10	41,179.12
P5	55,951.09
P0	571,178.73

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 1.40 to 12,851.18
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.46



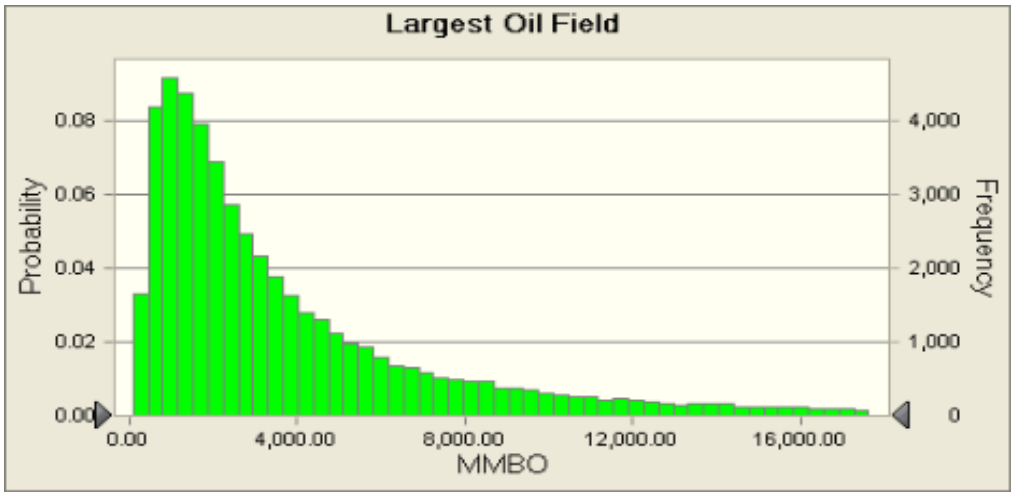
Statistics:	Forecast values
Trials	50,000
Mean	270.30
Median	179.42
Mode	---
Standard Deviation	327.50
Variance	107,254.91
Skewness	6.75
Kurtosis	113.63
Coefficient of Variability	1.21
Minimum	1.40
Maximum	12,851.18
Range Width	12,849.78
Mean Standard Error	1.46

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

Percentiles:	MMBNGL
P100	1.40
P95	41.74
P90	58.01
P85	72.01
P80	85.88
P75	99.57
P70	113.44
P65	128.19
P60	143.54
P55	160.55
P50	179.41
P45	201.25
P40	223.90
P35	251.00
P30	283.09
P25	324.06
P20	375.75
P15	447.46
P10	553.74
P5	773.40
P0	12,851.18

Forecast: Largest Oil Field

Summary:
Entire range is from 87.23 to 29,982.02
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 21.32



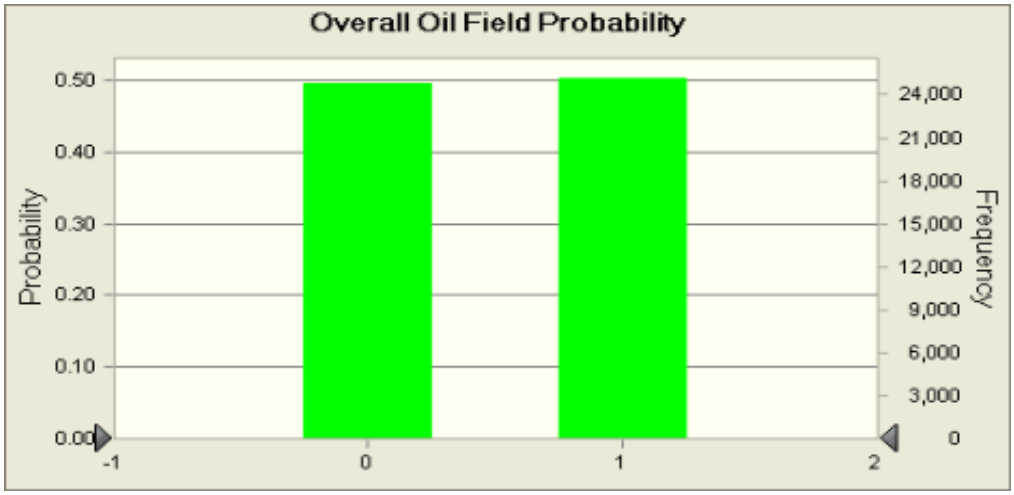
Statistics:	Forecast values
Trials	50,000
Mean	4,283.78
Median	2,575.63
Mode	---
Standard Deviation	4,766.54
Variance	22,719,911.11
Skewness	2.40
Kurtosis	9.61
Coefficient of Variability	1.11
Minimum	87.23
Maximum	29,982.02
Range Width	29,894.79
Mean Standard Error	21.32

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	87.23
P95	527.35
P90	735.93
P85	925.78
P80	1,127.05
P75	1,322.34
P70	1,533.23
P65	1,748.24
P60	1,993.95
P55	2,264.88
P50	2,575.62
P45	2,936.64
P40	3,351.05
P35	3,849.81
P30	4,472.50
P25	5,236.38
P20	6,279.41
P15	7,793.17
P10	10,033.41
P5	14,503.12
P0	29,982.02

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



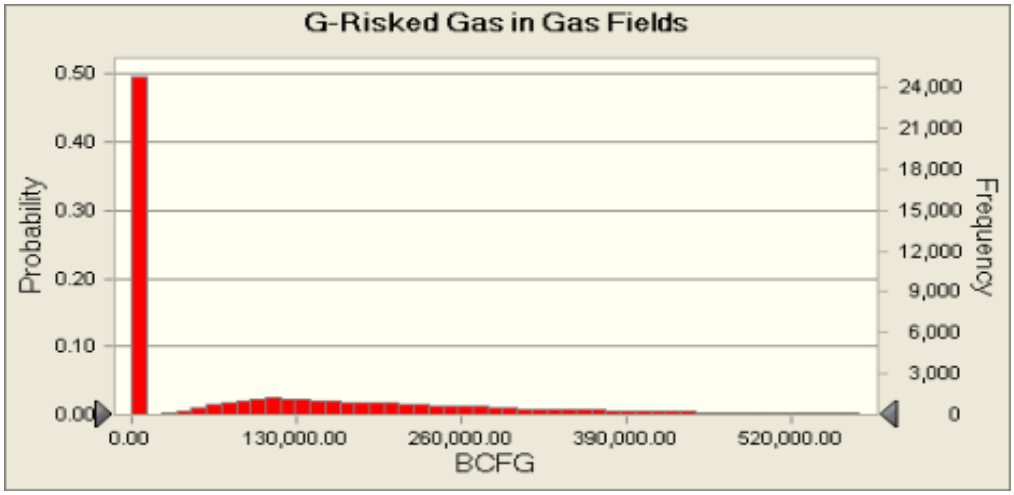
Statistics:	Forecast values	
Trials	50,000	
Mean	0.5037	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.50	
Variance	0.25	
Skewness	-0.0149	
Kurtosis	1.00	
Coefficient of Variability	0.9926	
Minimum	0.00	
Maximum	1.00	
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	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 1,476,877.73
After 50,000 trials, the standard error of the mean is 725.67



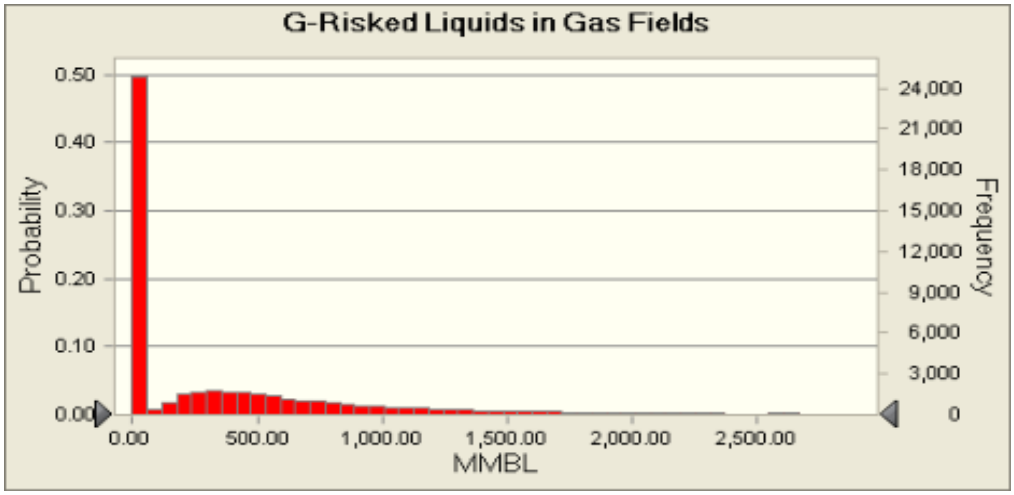
Statistics:	Forecast values
Trials	50,000
Mean	117,467.00
Median	36,814.37
Mode	0.00
Standard Deviation	162,265.85
Variance	26,330,204,871.54
Skewness	1.79
Kurtosis	6.88
Coefficient of Variability	1.38
Minimum	0.00
Maximum	1,476,877.73
Range Width	1,476,877.73
Mean Standard Error	725.67

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	36,814.23
P45	81,973.01
P40	108,332.99
P35	133,777.01
P30	160,145.59
P25	191,214.59
P20	226,701.99
P15	273,055.00
P10	340,084.47
P5	450,041.15
P0	1,476,877.73

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 22,466.49
After 50,000 trials, the standard error of the mean is 3.91



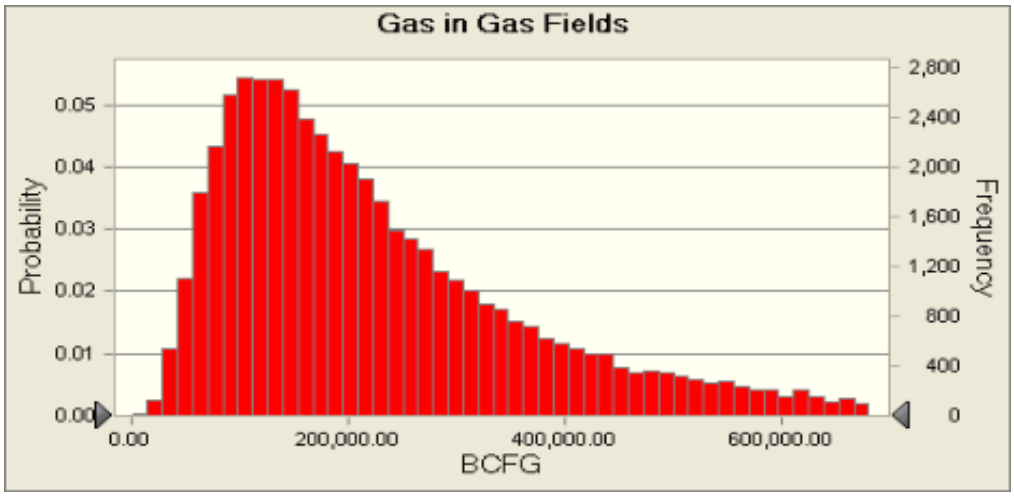
Statistics:	Forecast values
Trials	50,000
Mean	456.26
Median	98.01
Mode	0.00
Standard Deviation	875.00
Variance	765,623.36
Skewness	6.27
Kurtosis	82.97
Coefficient of Variability	1.92
Minimum	0.00
Maximum	22,466.49
Range Width	22,466.49
Mean Standard Error	3.91

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	97.97
P45	236.58
P40	325.23
P35	413.10
P30	507.02
P25	619.32
P20	754.32
P15	940.35
P10	1,229.90
P5	1,807.75
P0	22,466.49

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 665.39 to 1,476,877.73
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 715.17



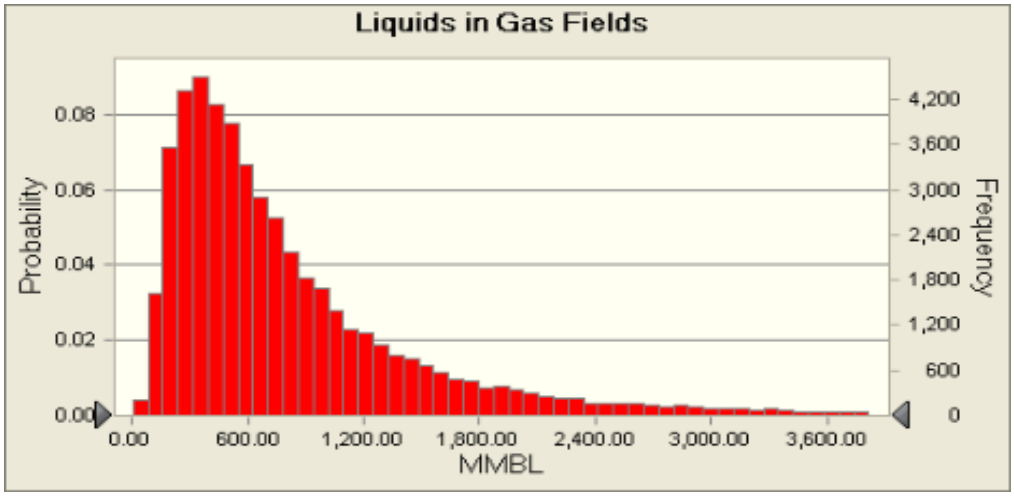
Statistics:	Forecast values
Trials	50,000
Mean	233,019.66
Median	189,490.83
Mode	---
Standard Deviation	159,916.40
Variance	25,573,255,477.63
Skewness	1.63
Kurtosis	6.62
Coefficient of Variability	0.6863
Minimum	665.39
Maximum	1,476,877.73
Range Width	1,476,212.35
Mean Standard Error	715.17

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

Percentiles:	BCFG
P100	665.39
P95	62,562.34
P90	79,657.35
P85	93,562.80
P80	106,569.39
P75	119,065.91
P70	132,474.99
P65	145,431.56
P60	158,714.45
P55	173,966.30
P50	189,489.59
P45	206,522.45
P40	224,910.90
P35	246,142.29
P30	271,116.09
P25	300,118.14
P20	336,608.09
P15	382,829.71
P10	448,415.60
P5	558,260.07
P0	1,476,877.73

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 4.46 to 22,982.79
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.65



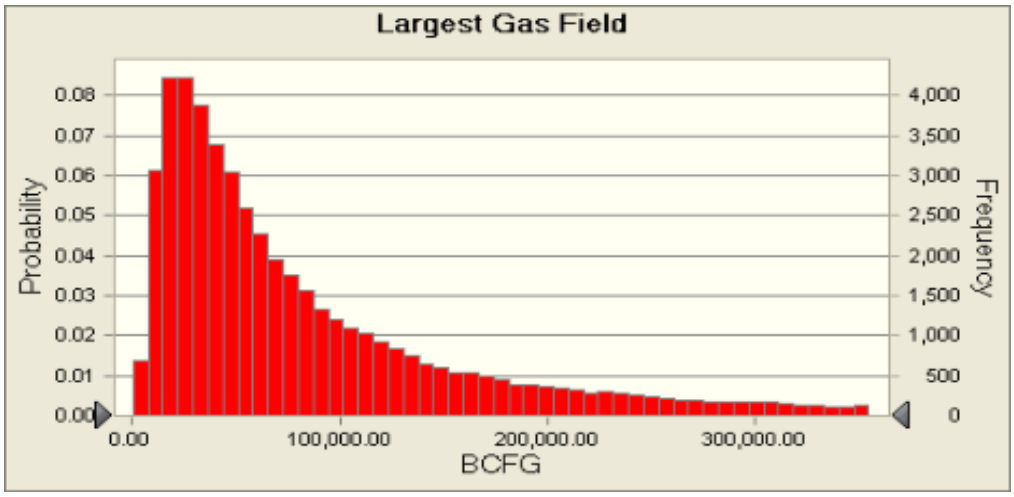
Statistics:	Forecast values
Trials	50,000
Mean	900.44
Median	614.25
Mode	---
Standard Deviation	1,040.65
Variance	1,082,955.42
Skewness	5.81
Kurtosis	66.57
Coefficient of Variability	1.16
Minimum	4.46
Maximum	22,982.79
Range Width	22,978.33
Mean Standard Error	4.65

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

Percentiles:	MMBL
P100	4.46
P95	177.26
P90	230.27
P85	277.26
P80	321.53
P75	363.45
P70	408.22
P65	455.00
P60	503.63
P55	555.41
P50	614.25
P45	678.57
P40	748.68
P35	829.65
P30	934.09
P25	1,057.71
P20	1,219.01
P15	1,441.50
P10	1,784.93
P5	2,504.35
P0	22,982.79

Forecast: Largest Gas Field

Summary:
Entire range is from 358.88 to 499,957.52
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 418.61



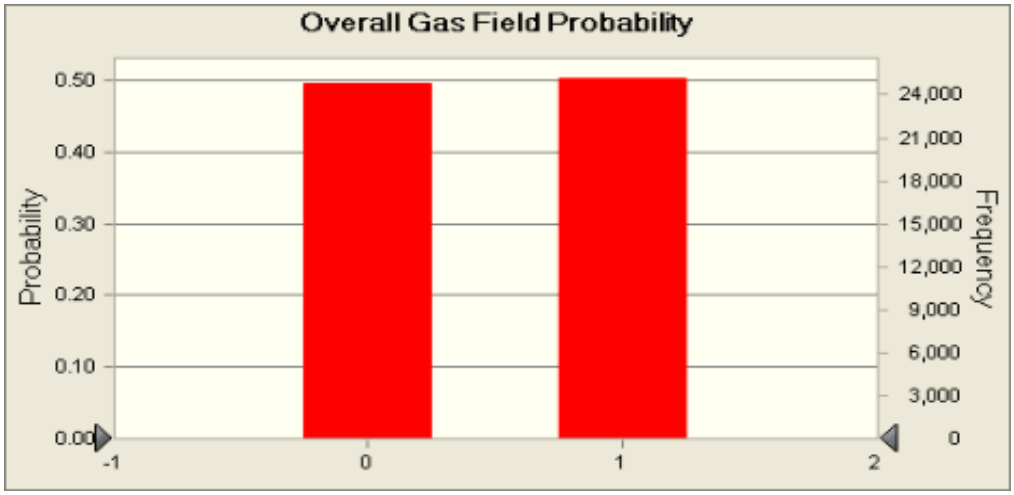
Statistics:	Forecast values
Trials	50,000
Mean	92,348.45
Median	57,976.68
Mode	---
Standard Deviation	93,604.28
Variance	8,761,760,701.51
Skewness	1.93
Kurtosis	6.68
Coefficient of Variability	1.01
Minimum	358.88
Maximum	499,957.52
Range Width	499,598.63
Mean Standard Error	418.61

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	358.88
P95	12,416.54
P90	17,120.17
P85	21,274.58
P80	25,512.84
P75	29,813.32
P70	34,431.15
P65	39,459.27
P60	45,136.84
P55	51,050.98
P50	57,976.30
P45	65,971.48
P40	75,569.39
P35	86,555.57
P30	100,595.50
P25	117,900.66
P20	140,382.12
P15	172,394.84
P10	221,183.39
P5	305,027.99
P0	499,957.52

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	0.5037	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.50	
Variance	0.25	
Skewness	-0.0149	
Kurtosis	1.00	
Coefficient of Variability	0.9926	
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	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

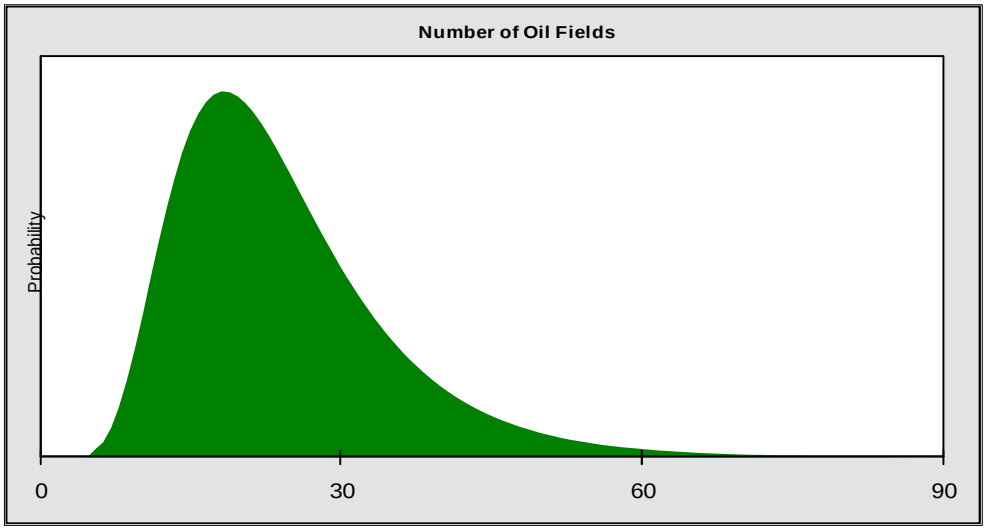
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	24.17
Standard Deviation	10.99

Selected range is from 0.00 to 84.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	24.09	24.10
Median	21.94	21.99
Mode	---	---
Standard Deviation	10.82	10.76
Variance	117.14	115.71
Skewness	1.29	1.26
Kurtosis	5.41	5.33
Coefficient of Variability	0.4493	0.4464
Minimum	3.37	0.00
Maximum	83.97	84.00
Range Width	80.61	84.00
Mean Standard Error	0.05	---

Assumption: Number of Oil Fields (cont'd)

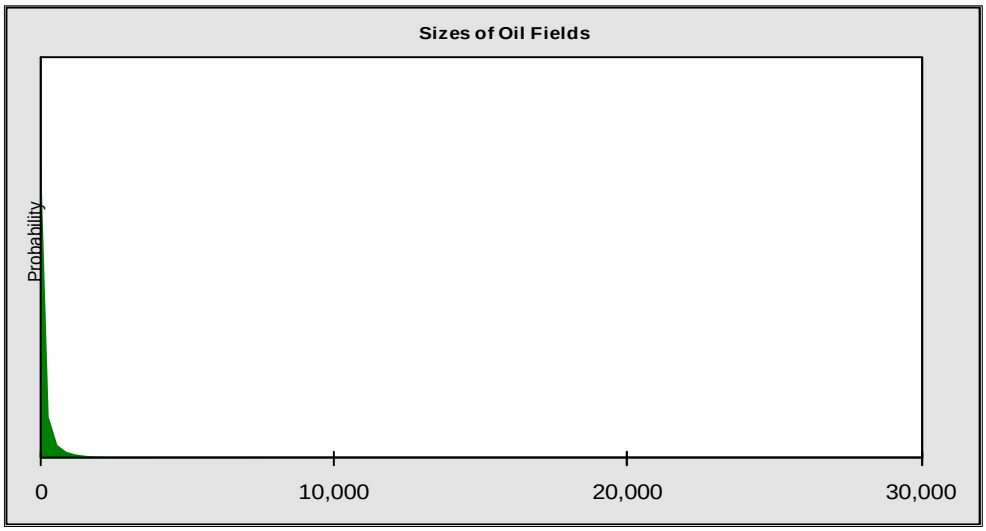
Percentiles:	Simulated values	Theoretical values
P100	3.37	0.00
P95	10.74	10.78
P90	12.59	12.62
P85	14.00	14.03
P80	15.26	15.27
P75	16.41	16.42
P70	17.50	17.52
P65	18.57	18.61
P60	19.68	19.70
P55	20.78	20.82
P50	21.94	21.99
P45	23.16	23.22
P40	24.49	24.54
P35	25.92	25.98
P30	27.53	27.59
P25	29.38	29.44
P20	31.57	31.65
P15	34.41	34.43
P10	38.24	38.26
P5	45.04	44.71
P0	83.97	84.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	502.92
Standard Deviation	3,388.85

Selected range is from 50.00 to 30,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	438.11	453.42
Median	110.43	109.85
Mode	---	---
Standard Deviation	1,326.26	1,376.94
Variance	1,758,970.59	1,895,954.57
Skewness	9.39	9.83
Kurtosis	125.12	134.59
Coefficient of Variability	3.03	3.04
Minimum	50.02	50.00
Maximum	29,581.36	30,000.00
Range Width	29,531.35	29,950.00
Mean Standard Error	5.93	---

Assumption: Sizes of Oil Fields (cont'd)

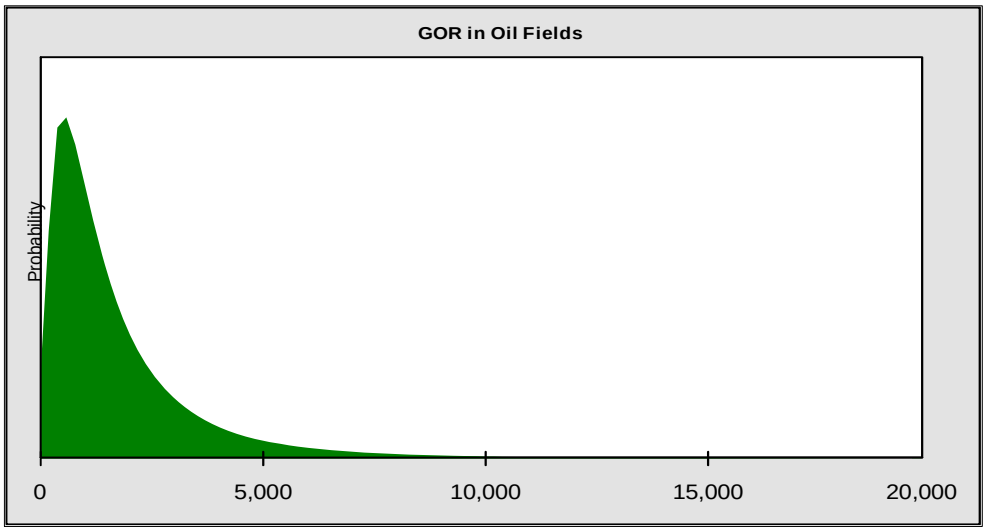
Percentiles:	Simulated values	Theoretical values
P100	50.02	50.00
P95	52.22	52.19
P90	54.58	54.56
P85	57.50	57.46
P80	61.07	61.03
P75	65.52	65.43
P70	70.93	70.87
P65	77.50	77.60
P60	85.96	85.98
P55	96.75	96.50
P50	110.43	109.85
P45	128.16	127.03
P40	151.01	149.55
P35	182.21	179.74
P30	224.55	221.52
P25	286.85	281.78
P20	378.55	374.02
P15	534.86	528.63
P10	841.04	831.19
P5	1,677.05	1,658.71
P0	29,581.36	30,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:

Mean	1,922.47
Standard Deviation	2,094.44

Selected range is from 0.00 to 20,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,897.81	1,897.99
Median	1,303.23	1,298.56
Mode	---	---
Standard Deviation	1,944.37	1,932.35
Variance	3,780,580.46	3,733,968.44
Skewness	3.08	3.00
Kurtosis	17.50	16.56
Coefficient of Variability	1.02	1.02
Minimum	43.07	0.00
Maximum	19,984.29	20,000.00
Range Width	19,941.21	20,000.00
Mean Standard Error	8.70	---

Assumption: GOR in Oil Fields (cont'd)

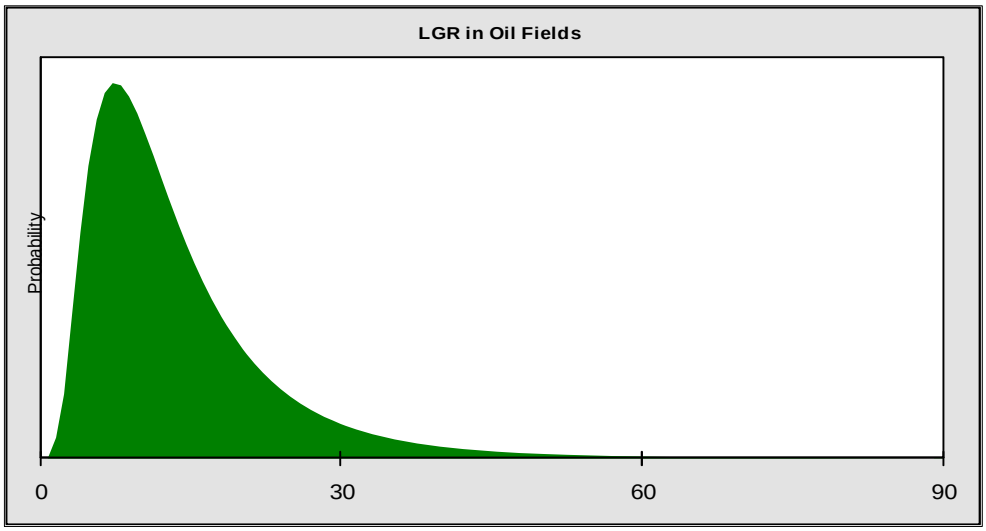
Percentiles:	Simulated values	Theoretical values
P100	43.07	0.00
P95	301.68	303.29
P90	414.62	418.21
P85	513.62	519.43
P80	614.72	617.08
P75	714.87	715.36
P70	814.68	816.87
P65	920.10	923.74
P60	1,036.26	1,038.05
P55	1,164.43	1,162.07
P50	1,303.23	1,298.56
P45	1,452.24	1,451.06
P40	1,625.01	1,624.33
P35	1,827.24	1,825.15
P30	2,067.14	2,063.62
P25	2,345.23	2,355.89
P20	2,726.38	2,730.06
P15	3,234.15	3,241.24
P10	3,999.39	4,020.80
P5	5,523.00	5,525.00
P0	19,984.29	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:

Mean	13.59
Standard Deviation	9.85

Selected range is from 0.00 to 82.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	13.46	13.50
Median	10.95	10.99
Mode	---	---
Standard Deviation	9.46	9.45
Variance	89.52	89.38
Skewness	2.05	2.02
Kurtosis	9.33	9.16
Coefficient of Variability	0.7031	0.7002
Minimum	0.54	0.00
Maximum	81.33	82.00
Range Width	80.78	82.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (cont'd)

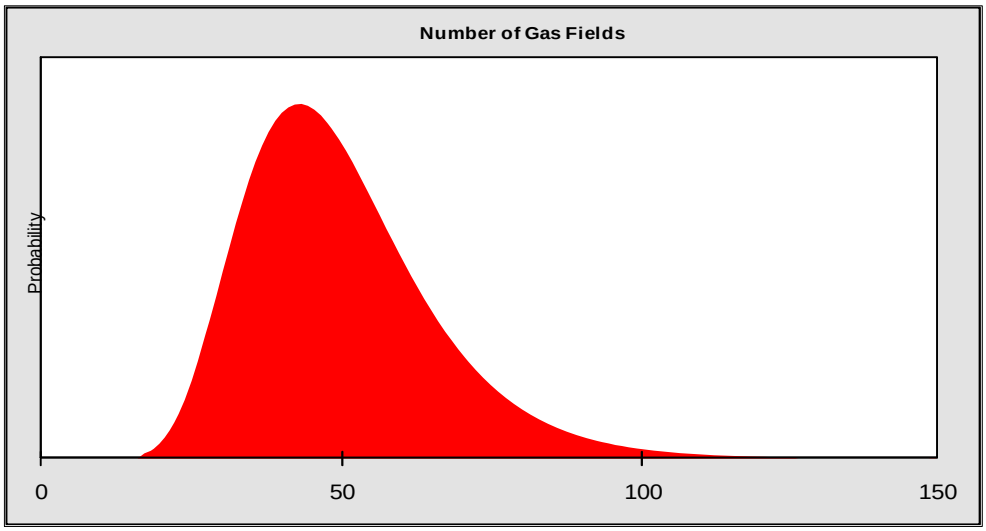
Percentiles:	Simulated values	Theoretical values
P100	0.54	0.00
P95	3.75	3.77
P90	4.75	4.78
P85	5.59	5.61
P80	6.34	6.36
P75	7.05	7.09
P70	7.79	7.82
P65	8.53	8.56
P60	9.29	9.32
P55	10.09	10.13
P50	10.95	10.99
P45	11.88	11.93
P40	12.90	12.96
P35	14.04	14.12
P30	15.38	15.45
P25	16.96	17.03
P20	18.85	18.98
P15	21.41	21.53
P10	25.15	25.22
P5	31.74	31.86
P0	81.33	82.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	50.41
Standard Deviation	16.04

Selected range is from 1.00 to 126.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	50.29	50.33
Median	47.95	47.98
Mode	---	---
Standard Deviation	15.85	15.81
Variance	251.13	249.82
Skewness	0.8979	0.8910
Kurtosis	4.14	4.11
Coefficient of Variability	0.3151	0.3141
Minimum	12.84	1.00
Maximum	125.88	126.00
Range Width	113.04	125.00
Mean Standard Error	0.07	---

Assumption: Number of Gas Fields (cont'd)

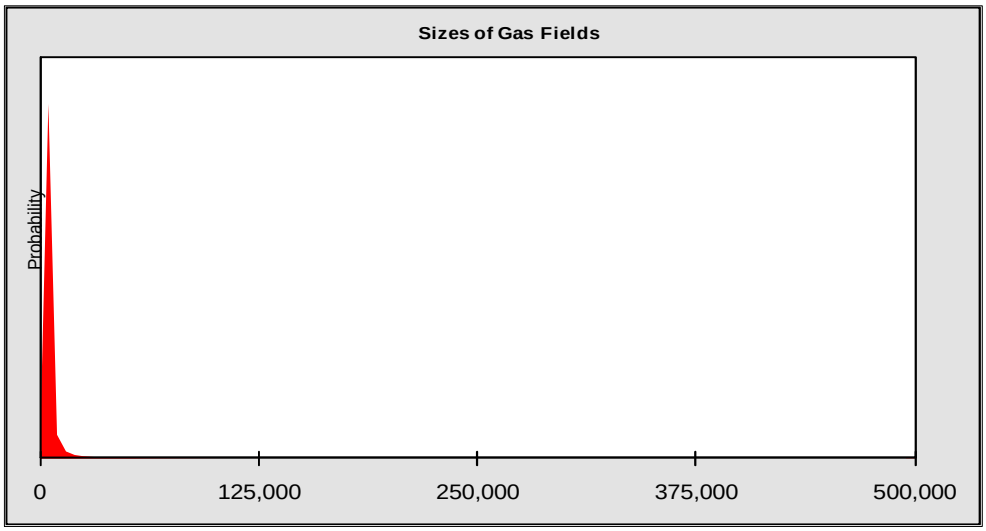
Percentiles:	Simulated values	Theoretical values
P100	12.84	1.00
P95	28.93	28.92
P90	32.25	32.32
P85	34.74	34.85
P80	36.90	37.00
P75	38.84	38.95
P70	40.71	40.80
P65	42.53	42.59
P60	44.30	44.36
P55	46.10	46.15
P50	47.95	47.98
P45	49.88	49.89
P40	51.93	51.90
P35	54.02	54.07
P30	56.44	56.45
P25	59.07	59.14
P20	62.31	62.29
P15	66.14	66.18
P10	71.41	71.40
P5	79.98	79.88
P0	125.88	126.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	5,884.42
Standard Deviation	86,447.01

Selected range is from 300.00 to 500,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4,506.79	5,002.01
Median	657.65	658.94
Mode	---	---
Standard Deviation	19,043.13	19,889.10
Variance	362,640,926.12	395,576,428.08
Skewness	12.02	12.11
Kurtosis	198.41	196.87
Coefficient of Variability	4.23	3.98
Minimum	300.03	300.00
Maximum	486,227.77	500,000.00
Range Width	485,927.75	499,700.00
Mean Standard Error	85.16	---

Assumption: Sizes of Gas Fields (cont'd)

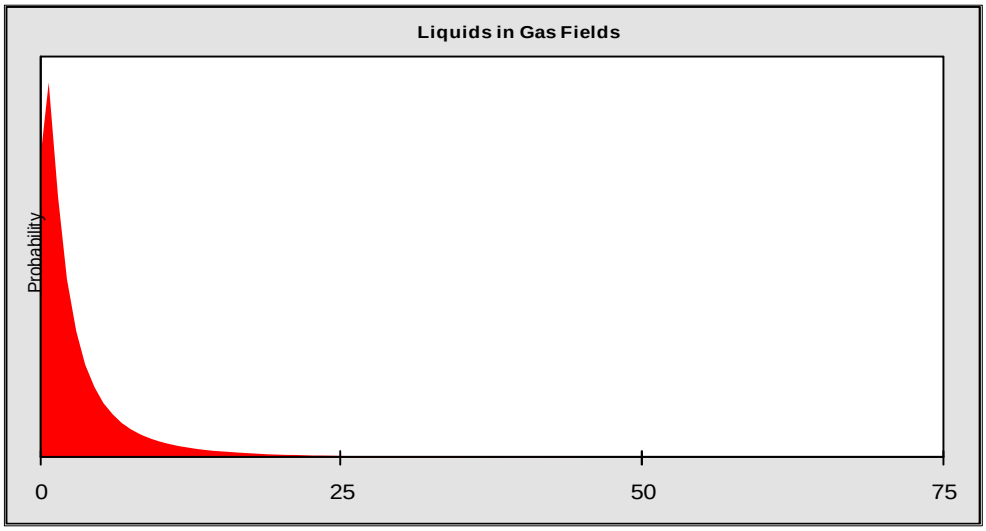
Percentiles:	Simulated values	Theoretical values
P100	300.03	300.00
P95	307.64	307.64
P90	318.18	317.88
P85	332.43	331.74
P80	350.70	350.08
P75	375.41	374.06
P70	406.47	405.23
P65	447.57	445.71
P60	499.64	498.43
P55	567.43	567.52
P50	657.64	658.94
P45	780.53	781.59
P40	941.93	949.18
P35	1,177.58	1,183.84
P30	1,516.58	1,523.35
P25	2,023.98	2,037.13
P20	2,829.85	2,866.21
P15	4,305.52	4,342.13
P10	7,399.43	7,451.34
P5	16,909.59	16,886.26
P0	486,227.77	500,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:

Mean	3.98
Standard Deviation	6.84

Selected range is from 0.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3.88	3.87
Median	1.99	2.00
Mode	---	---
Standard Deviation	5.78	5.78
Variance	33.41	33.41
Skewness	4.37	4.45
Kurtosis	31.11	32.35
Coefficient of Variability	1.49	1.49
Minimum	0.01	0.00
Maximum	73.68	75.00
Range Width	73.67	75.00
Mean Standard Error	0.03	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	0.01	0.00
P95	0.29	0.29
P90	0.45	0.44
P85	0.59	0.59
P80	0.74	0.74
P75	0.90	0.91
P70	1.07	1.08
P65	1.27	1.27
P60	1.47	1.48
P55	1.71	1.72
P50	1.99	2.00
P45	2.29	2.31
P40	2.68	2.69
P35	3.12	3.14
P30	3.67	3.69
P25	4.39	4.40
P20	5.36	5.35
P15	6.76	6.72
P10	9.01	8.94
P5	13.75	13.62
P0	73.68	75.00

End of Assumptions

Simulation started on 7/11/2008 at 13:46:01
Simulation stopped on 7/11/2008 at 14:09:06