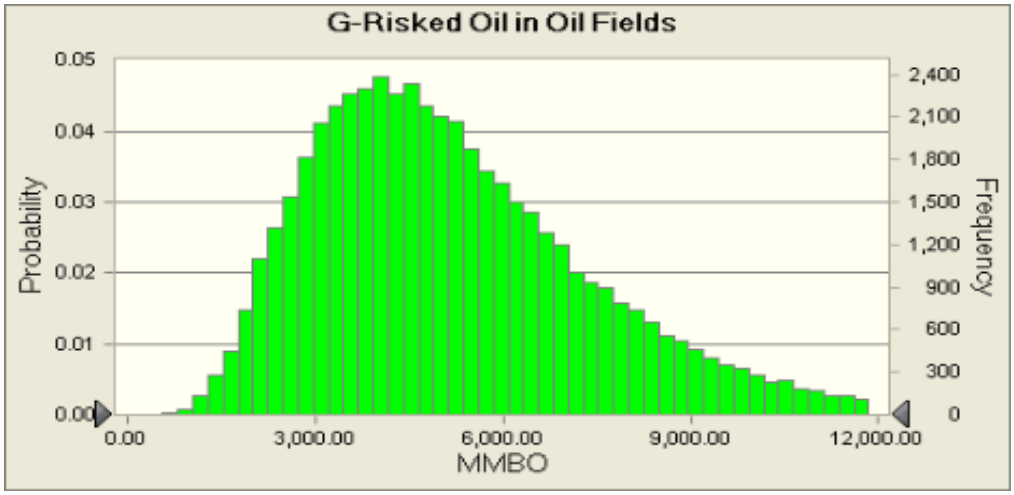
11750201
Yenisey-Khatanga Basin
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 85.07 to 19,519.24
After 50,000 trials, the standard error of the mean is 10.52



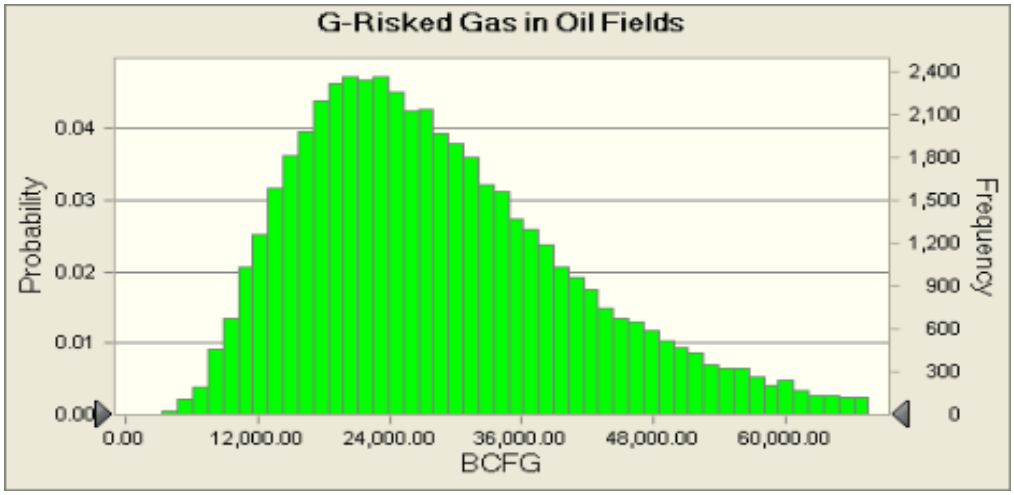
Statistics:	Forecast values
Trials	50,000
Mean	5,256.84
Median	4,846.55
Mode	---
Standard Deviation	2,353.15
Variance	5,537,312.08
Skewness	1.03
Kurtosis	4.44
Coefficient of Variability	0.4476
Minimum	85.07
Maximum	19,519.24
Range Width	19,434.17
Mean Standard Error	10.52

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

Percentiles:	MMBO
P100	85.07
P95	2,200.50
P90	2,634.23
P85	2,976.88
P80	3,266.85
P75	3,534.07
P70	3,799.40
P65	4,058.78
P60	4,315.78
P55	4,578.36
P50	4,846.52
P45	5,131.46
P40	5,427.60
P35	5,760.37
P30	6,123.95
P25	6,535.83
P20	7,013.33
P15	7,634.80
P10	8,421.55
P5	9,715.78
P0	19,519.24

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 678.67 to 121,696.27
After 50,000 trials, the standard error of the mean is 61.38



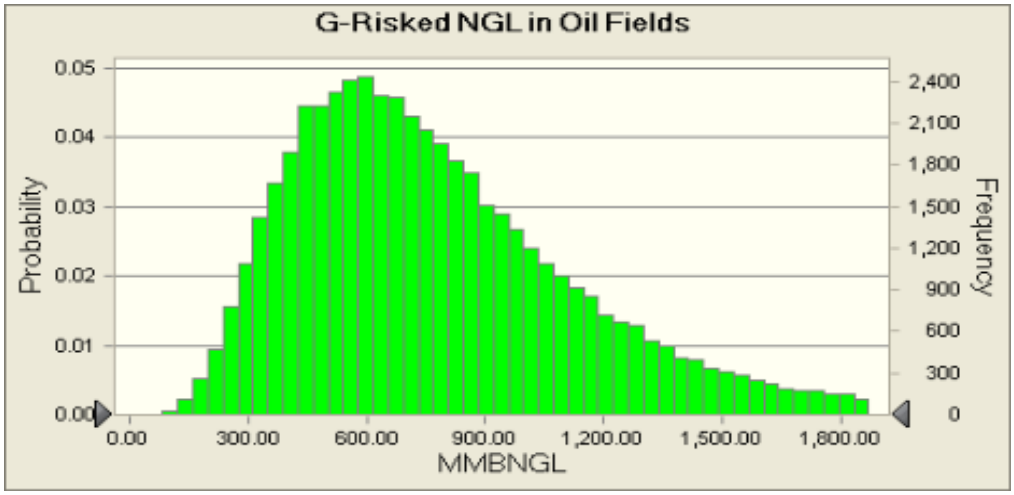
Statistics:	Forecast values
Trials	50,000
Mean	29,078.06
Median	26,571.02
Mode	---
Standard Deviation	13,725.20
Variance	188,381,040.08
Skewness	1.13
Kurtosis	4.82
Coefficient of Variability	0.4720
Minimum	678.67
Maximum	121,696.27
Range Width	121,017.60
Mean Standard Error	61.38

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

Percentiles:	BCFG
P100	678.67
P95	11,603.96
P90	14,060.52
P85	15,941.04
P80	17,596.20
P75	19,114.81
P70	20,577.72
P65	22,032.16
P60	23,471.93
P55	24,963.43
P50	26,570.21
P45	28,177.23
P40	29,931.18
P35	31,788.89
P30	33,891.69
P25	36,276.56
P20	39,050.40
P15	42,590.85
P10	47,538.88
P5	55,374.82
P0	121,696.27

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 8.93 to 3,933.96
After 50,000 trials, the standard error of the mean is 1.73



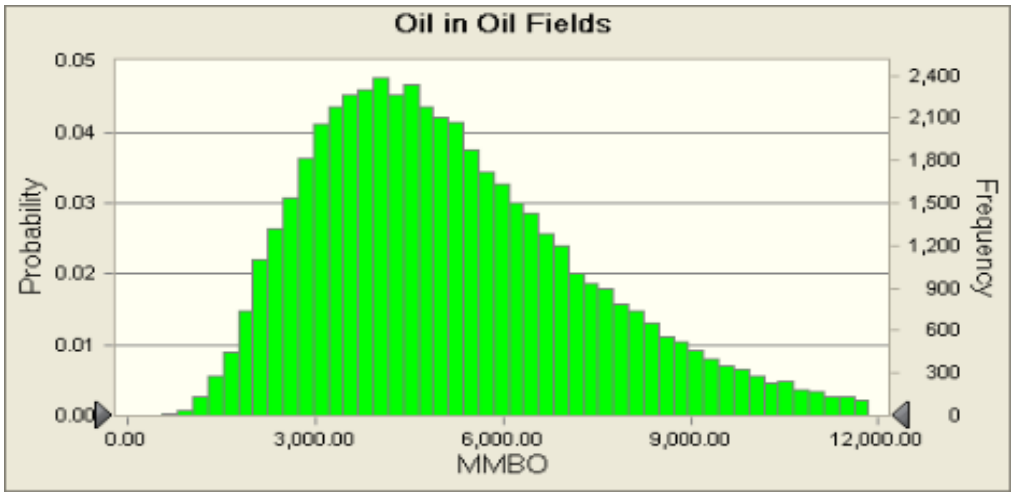
Statistics:	Forecast values
Trials	50,000
Mean	786.38
Median	710.43
Mode	---
Standard Deviation	386.68
Variance	149,519.66
Skewness	1.23
Kurtosis	5.37
Coefficient of Variability	0.4917
Minimum	8.93
Maximum	3,933.96
Range Width	3,925.03
Mean Standard Error	1.73

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

Percentiles:	MMBNGL
P100	8.93
P95	305.00
P90	369.75
P85	422.36
P80	465.46
P75	507.89
P70	548.18
P65	588.33
P60	626.65
P55	668.39
P50	710.42
P45	756.27
P40	804.71
P35	857.20
P30	916.45
P25	984.16
P20	1,063.77
P15	1,164.02
P10	1,298.57
P5	1,528.50
P0	3,933.96

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 85.07 to 19,519.24
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 10.52



Statistics:	Forecast values
Trials	50,000
Mean	5,256.84
Median	4,846.55
Mode	---
Standard Deviation	2,353.15
Variance	5,537,312.08
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Range Width	19,434.17
Mean Standard Error	10.52

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

Percentiles:	MMBO
P100	85.07
P95	2,200.50
P90	2,634.23
P85	2,976.88
P80	3,266.85
P75	3,534.07
P70	3,799.40
P65	4,058.78
P60	4,315.78
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P40	5,427.60
P35	5,760.37
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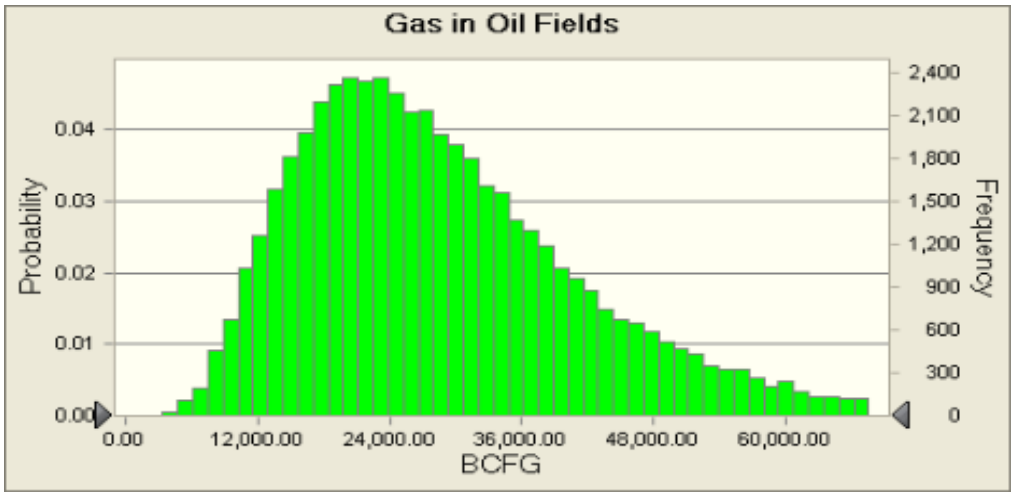
P25	6,535.83
P20	7,013.33
P15	7,634.80
P10	8,421.55
P5	9,715.78
P0	19,519.24

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 678.67 to 121,696.27
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 61.38



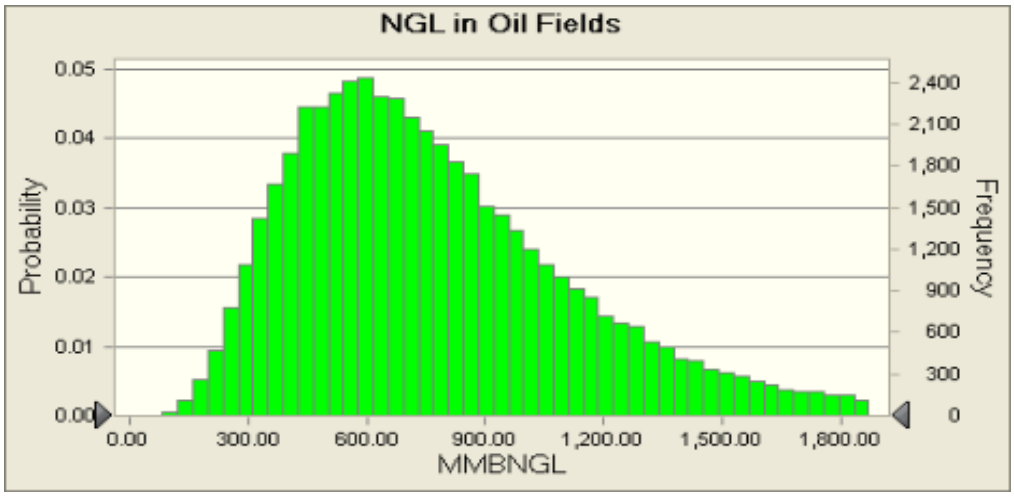
Statistics:	Forecast values
Trials	50,000
Mean	29,078.06
Median	26,571.02
Mode	---
Standard Deviation	13,725.20
Variance	188,381,040.08
Skewness	1.13
Kurtosis	4.82
Coefficient of Variability	0.4720
Minimum	678.67
Maximum	121,696.27
Range Width	121,017.60
Mean Standard Error	61.38

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

Percentiles:	BCFG
P100	678.67
P95	11,603.96
P90	14,060.52
P85	15,941.04
P80	17,596.20
P75	19,114.81
P70	20,577.72
P65	22,032.16
P60	23,471.93
P55	24,963.43
P50	26,570.21
P45	28,177.23
P40	29,931.18
P35	31,788.89
P30	33,891.69
P25	36,276.56
P20	39,050.40
P15	42,590.85
P10	47,538.88
P5	55,374.82
P0	121,696.27

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 8.93 to 3,933.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.73



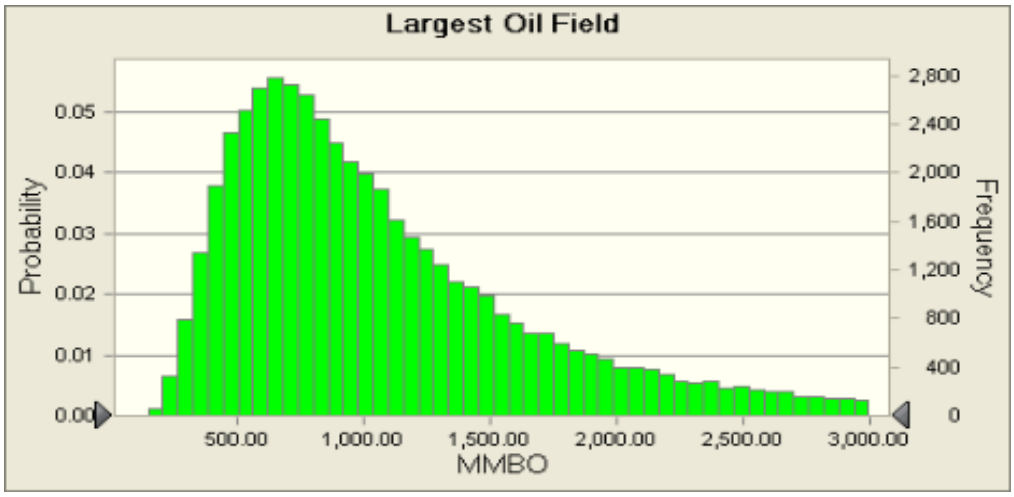
Statistics:	Forecast values
Trials	50,000
Mean	786.38
Median	710.43
Mode	---
Standard Deviation	386.68
Variance	149,519.66
Skewness	1.23
Kurtosis	5.37
Coefficient of Variability	0.4917
Minimum	8.93
Maximum	3,933.96
Range Width	3,925.03
Mean Standard Error	1.73

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

Percentiles:	MMBNGL
P100	8.93
P95	305.00
P90	369.75
P85	422.36
P80	465.46
P75	507.89
P70	548.18
P65	588.33
P60	626.65
P55	668.39
P50	710.42
P45	756.27
P40	804.71
P35	857.20
P30	916.45
P25	984.16
P20	1,063.77
P15	1,164.02
P10	1,298.57
P5	1,528.50
P0	3,933.96

Forecast: Largest Oil Field

Summary:
Entire range is from 85.07 to 3,998.30
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.02



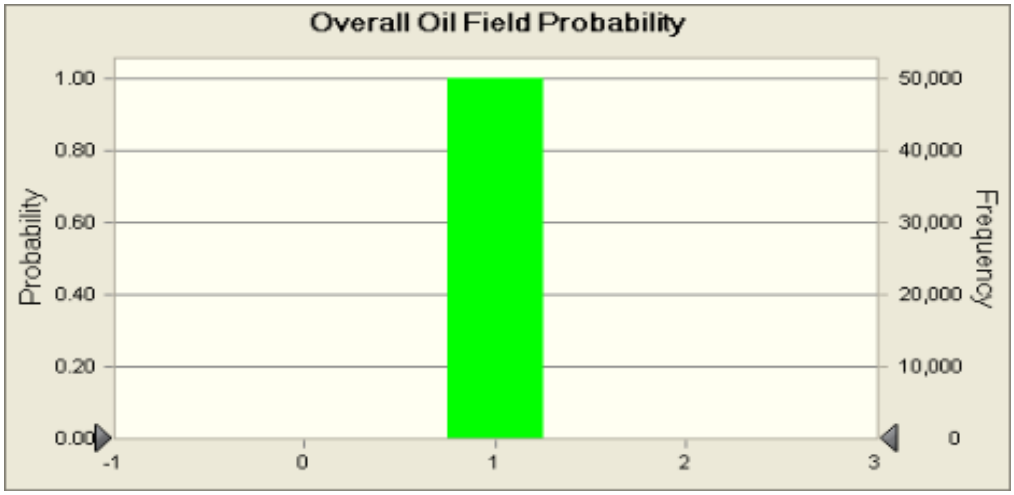
Statistics:	Forecast values
Trials	50,000
Mean	1,108.11
Median	921.95
Mode	---
Standard Deviation	674.19
Variance	454,534.08
Skewness	1.49
Kurtosis	5.34
Coefficient of Variability	0.6084
Minimum	85.07
Maximum	3,998.30
Range Width	3,913.23
Mean Standard Error	3.02

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	85.07
P95	381.14
P90	457.22
P85	518.21
P80	576.86
P75	631.20
P70	683.55
P65	738.83
P60	794.93
P55	855.39
P50	921.94
P45	991.55
P40	1,070.08
P35	1,159.41
P30	1,262.91
P25	1,388.52
P20	1,539.94
P15	1,744.47
P10	2,038.31
P5	2,533.57
P0	3,998.30

Forecast: Overall Oil Field Probability

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



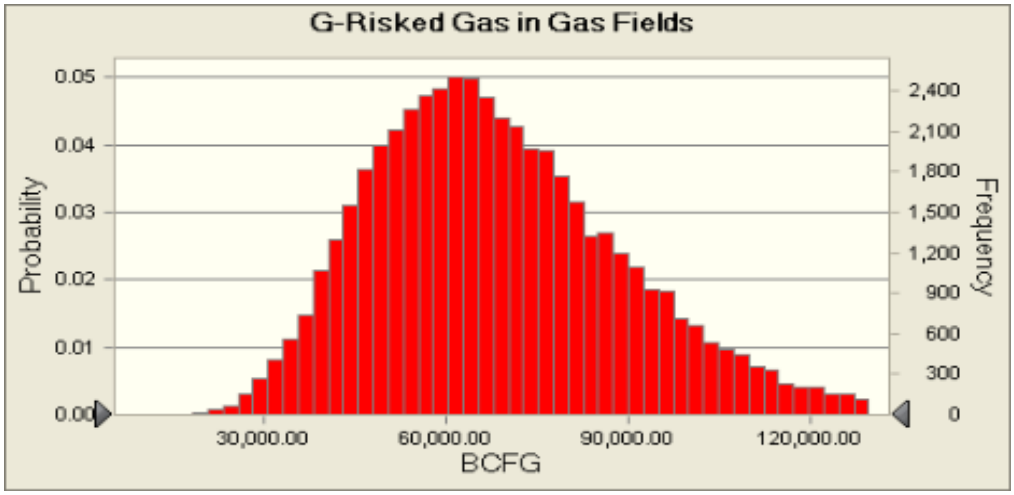
Statistics:	Forecast values	
Trials	50,000	
Mean	1.0000	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.00	
Variance	0.00	
Skewness	---	
Kurtosis	---	
Coefficient of Variability	0.00	
Minimum	1.00	
Maximum	1.00	
Range Width	0.00	
Mean Standard Error	0.00	

Forecast: Overall Oil Field Probability (cont'd)

Percentiles:	Forecast values
P100	1.00
P95	1.00
P90	1.00
P85	1.00
P80	1.00
P75	1.00
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 3,429.54 to 201,551.99
After 50,000 trials, the standard error of the mean is 96.88



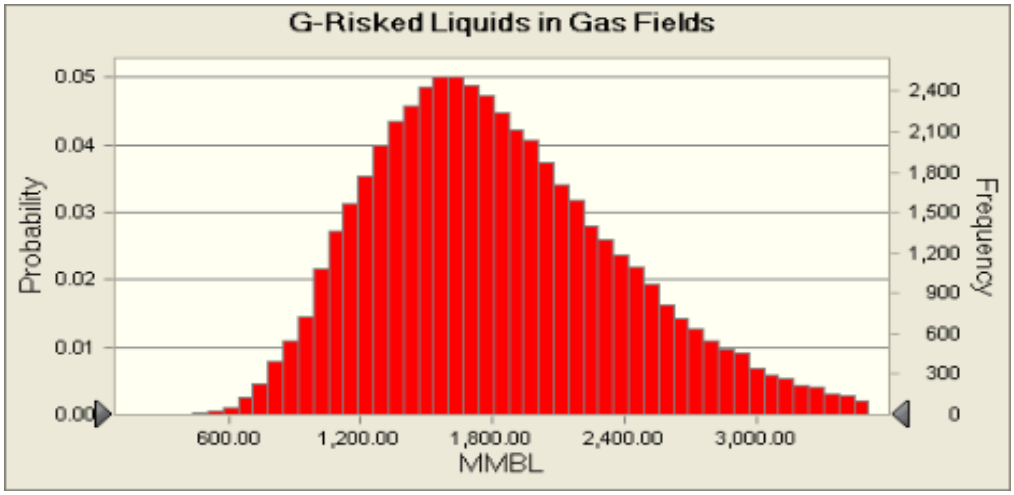
Statistics:	Forecast values
Trials	50,000
Mean	68,883.50
Median	66,089.34
Mode	---
Standard Deviation	21,663.51
Variance	469,307,760.93
Skewness	0.7524
Kurtosis	3.86
Coefficient of Variability	0.3145
Minimum	3,429.54
Maximum	201,551.99
Range Width	198,122.45
Mean Standard Error	96.88

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

Percentiles:	BCFG
P100	3,429.54
P95	38,628.83
P90	43,497.33
P85	47,202.93
P80	50,335.67
P75	53,264.60
P70	55,970.59
P65	58,525.29
P60	61,064.76
P55	63,540.15
P50	66,088.84
P45	68,715.77
P40	71,603.46
P35	74,714.21
P30	77,896.32
P25	81,591.27
P20	86,024.91
P15	91,151.85
P10	97,663.99
P5	108,412.57
P0	201,551.99

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 104.58 to 5,606.08
After 50,000 trials, the standard error of the mean is 2.67



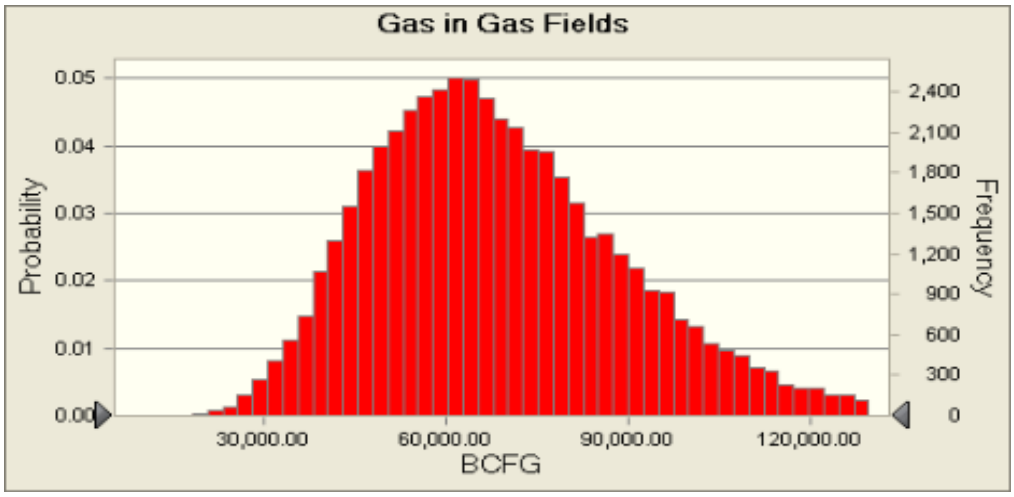
Statistics:	Forecast values
Trials	50,000
Mean	1,835.42
Median	1,754.02
Mode	---
Standard Deviation	596.52
Variance	355,839.84
Skewness	0.7961
Kurtosis	3.97
Coefficient of Variability	0.3250
Minimum	104.58
Maximum	5,606.08
Range Width	5,501.51
Mean Standard Error	2.67

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

Percentiles:	MMBL
P100	104.58
P95	1,009.13
P90	1,140.65
P85	1,241.31
P80	1,327.22
P75	1,405.30
P70	1,478.95
P65	1,548.69
P60	1,617.91
P55	1,684.75
P50	1,754.02
P45	1,829.52
P40	1,907.75
P35	1,988.70
P30	2,080.33
P25	2,182.92
P20	2,302.75
P15	2,444.45
P10	2,631.28
P5	2,929.15
P0	5,606.08

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 3,429.54 to 201,551.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 96.88



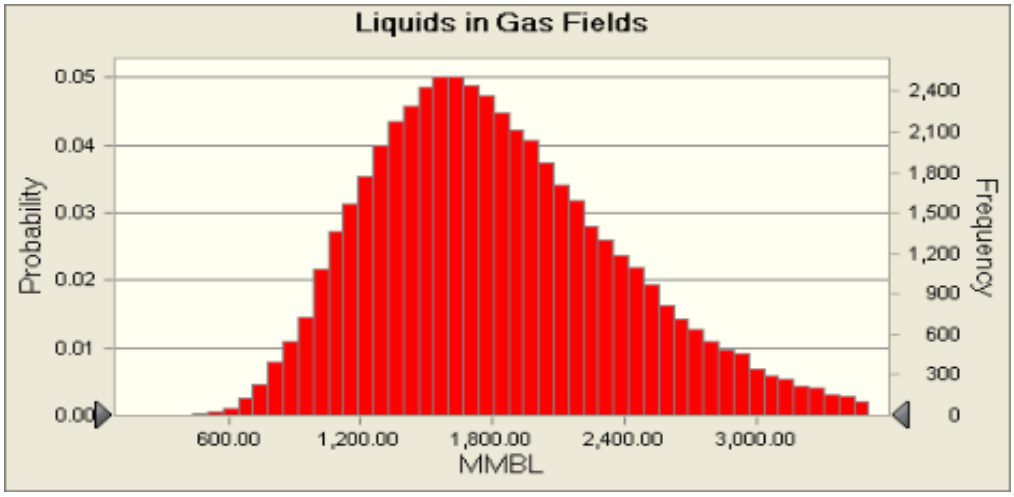
Statistics:	Forecast values
Trials	50,000
Mean	68,883.50
Median	66,089.34
Mode	---
Standard Deviation	21,663.51
Variance	469,307,760.93
Skewness	0.7524
Kurtosis	3.86
Coefficient of Variability	0.3145
Minimum	3,429.54
Maximum	201,551.99
Range Width	198,122.45
Mean Standard Error	96.88

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

Percentiles:	BCFG
P100	3,429.54
P95	38,628.83
P90	43,497.33
P85	47,202.93
P80	50,335.67
P75	53,264.60
P70	55,970.59
P65	58,525.29
P60	61,064.76
P55	63,540.15
P50	66,088.84
P45	68,715.77
P40	71,603.46
P35	74,714.21
P30	77,896.32
P25	81,591.27
P20	86,024.91
P15	91,151.85
P10	97,663.99
P5	108,412.57
P0	201,551.99

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 104.58 to 5,606.08
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.67



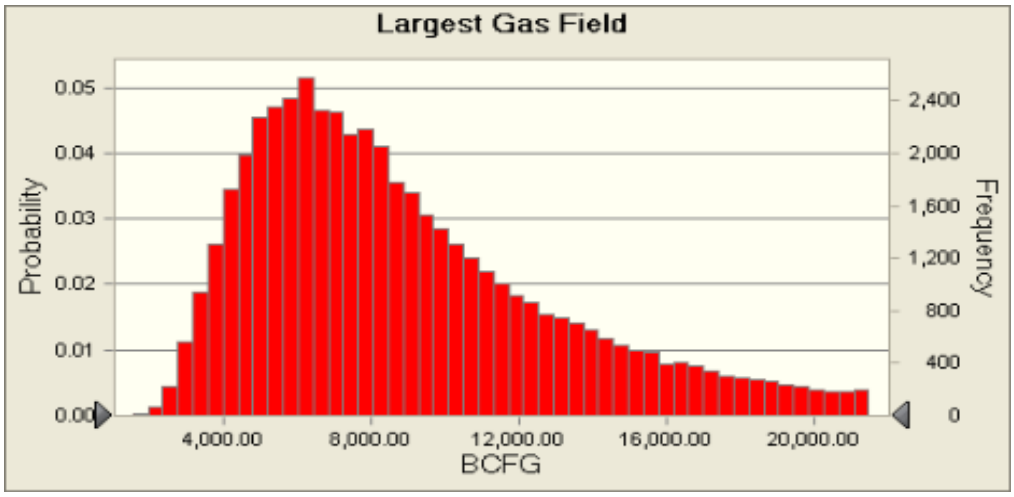
Statistics:	Forecast values
Trials	50,000
Mean	1,835.42
Median	1,754.02
Mode	---
Standard Deviation	596.52
Variance	355,839.84
Skewness	0.7961
Kurtosis	3.97
Coefficient of Variability	0.3250
Minimum	104.58
Maximum	5,606.08
Range Width	5,501.51
Mean Standard Error	2.67

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

Percentiles:	MMBL
P100	104.58
P95	1,009.13
P90	1,140.65
P85	1,241.31
P80	1,327.22
P75	1,405.30
P70	1,478.95
P65	1,548.69
P60	1,617.91
P55	1,684.75
P50	1,754.02
P45	1,829.52
P40	1,907.75
P35	1,988.70
P30	2,080.33
P25	2,182.92
P20	2,302.75
P15	2,444.45
P10	2,631.28
P5	2,929.15
P0	5,606.08

Forecast: Largest Gas Field

Summary:
Entire range is from 1,514.21 to 23,997.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 19.86



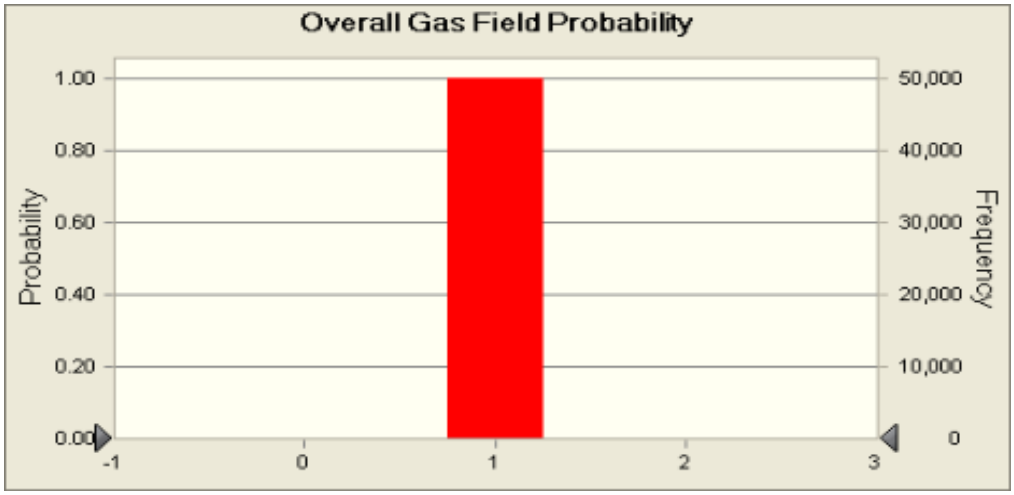
Statistics:	Forecast values
Trials	50,000
Mean	9,056.82
Median	7,960.21
Mode	---
Standard Deviation	4,441.62
Variance	19,727,960.86
Skewness	1.08
Kurtosis	3.75
Coefficient of Variability	0.4904
Minimum	1,514.21
Maximum	23,997.98
Range Width	22,483.77
Mean Standard Error	19.86

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	1,514.21
P95	3,790.79
P90	4,401.51
P85	4,896.26
P80	5,340.20
P75	5,769.03
P70	6,174.08
P65	6,587.39
P60	7,026.89
P55	7,482.59
P50	7,960.20
P45	8,454.07
P40	9,034.71
P35	9,678.60
P30	10,423.27
P25	11,301.63
P20	12,383.97
P15	13,748.93
P10	15,561.25
P5	18,396.16
P0	23,997.98

Forecast: Overall Gas Field Probability

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



Statistics:	Forecast values	
Trials	50,000	
Mean	1.0000	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.00	
Variance	0.00	
Skewness	---	
Kurtosis	---	
Coefficient of Variability	0.00	
Minimum	1.00	
Maximum	1.00	
Range Width	0.00	
Mean Standard Error	0.00	

Forecast: Overall Gas Field Probability (cont'd)

Percentiles:	Forecast values
P100	1.00
P95	1.00
P90	1.00
P85	1.00
P80	1.00
P75	1.00
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

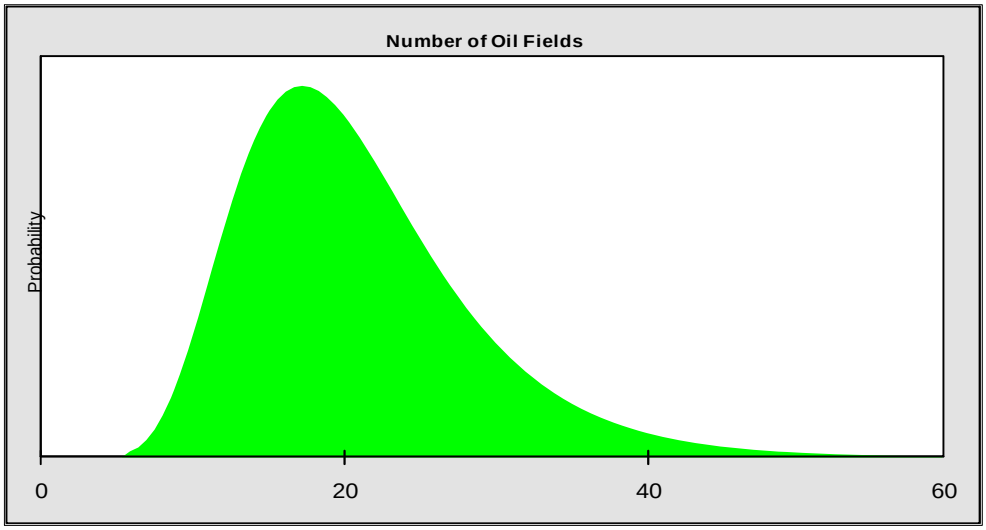
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	21.30
Standard Deviation	7.82

Selected range is from 0.00 to 60.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.27	21.26
Median	20.01	19.99
Mode	---	---
Standard Deviation	7.69	7.69
Variance	59.16	59.13
Skewness	1.00	1.01
Kurtosis	4.38	4.46
Coefficient of Variability	0.3615	0.3617
Minimum	4.54	0.00
Maximum	59.82	60.00
Range Width	55.28	60.00
Mean Standard Error	0.03	---

Assumption: Number of Oil Fields (cont'd)

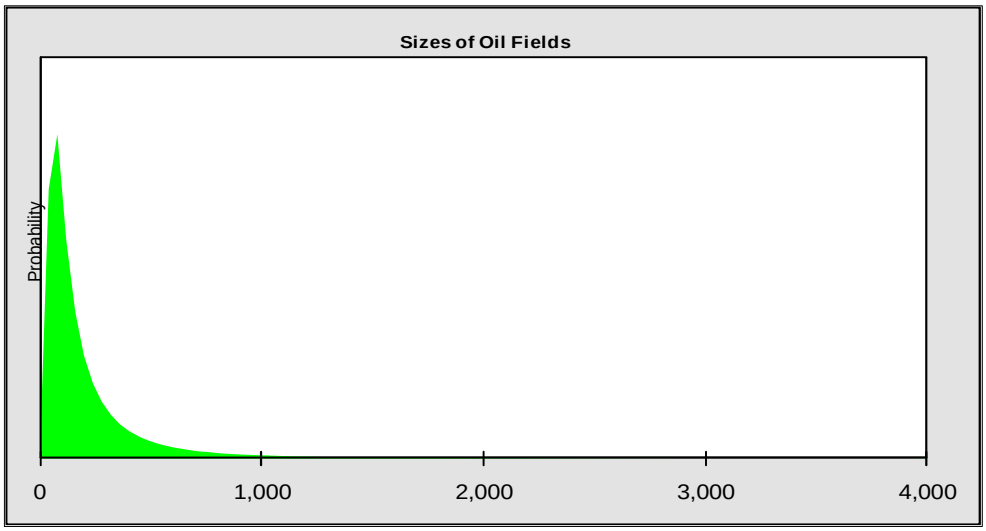
Percentiles:	Simulated values	Theoretical values
P100	4.54	0.00
P95	11.13	11.14
P90	12.69	12.68
P85	13.85	13.83
P80	14.79	14.82
P75	15.73	15.73
P70	16.60	16.59
P65	17.46	17.43
P60	18.30	18.27
P55	19.16	19.12
P50	20.01	19.99
P45	20.91	20.90
P40	21.87	21.87
P35	22.91	22.92
P30	24.06	24.08
P25	25.42	25.40
P20	26.98	26.95
P15	28.90	28.87
P10	31.59	31.49
P5	35.93	35.78
P0	59.82	60.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	252.94
Standard Deviation	358.38

Selected range is from 50.00 to 4,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	246.82	247.31
Median	149.57	149.85
Mode	---	---
Standard Deviation	299.71	300.58
Variance	89,824.98	90,345.54
Skewness	4.59	4.54
Kurtosis	34.65	33.55
Coefficient of Variability	1.21	1.22
Minimum	50.76	50.00
Maximum	3,995.25	4,000.00
Range Width	3,944.48	3,950.00
Mean Standard Error	1.34	---

Assumption: Sizes of Oil Fields (cont'd)

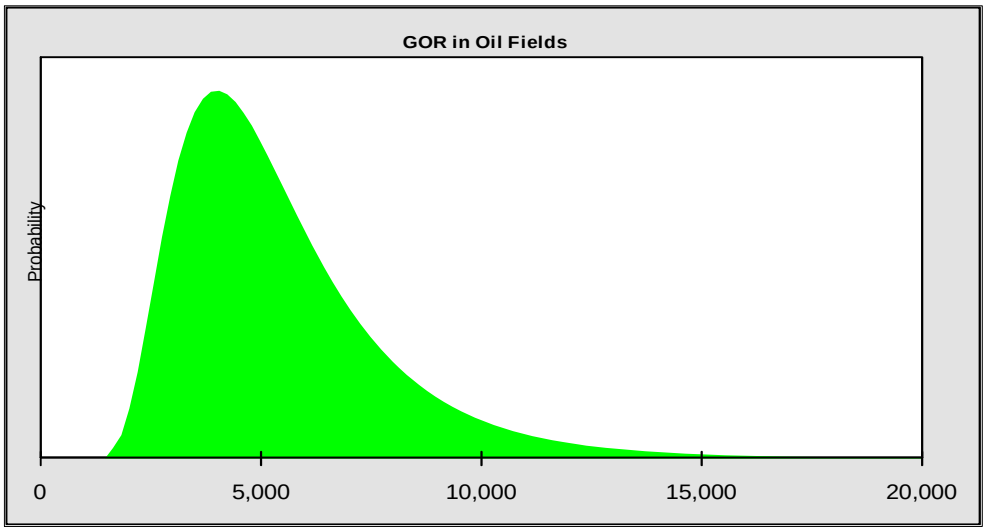
Percentiles:	Simulated values	Theoretical values
P100	50.76	50.00
P95	64.14	64.12
P90	71.83	71.75
P85	79.30	79.12
P80	86.75	86.71
P75	94.78	94.78
P70	103.56	103.53
P65	112.93	113.16
P60	123.57	123.89
P55	135.44	136.00
P50	149.57	149.85
P45	165.52	165.93
P40	183.81	184.93
P35	206.45	207.83
P30	234.73	236.17
P25	271.25	272.48
P20	320.35	321.26
P15	391.36	391.70
P10	506.23	506.60
P5	756.41	750.11
P0	3,995.25	4,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:

Mean	5,542.29
Standard Deviation	2,444.08

Selected range is from 1,000.00 to 20,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	5,534.55	5,524.74
Median	5,011.07	4,997.47
Mode	---	---
Standard Deviation	2,388.31	2,379.45
Variance	5,704,036.35	5,661,766.18
Skewness	1.51	1.49
Kurtosis	6.37	6.32
Coefficient of Variability	0.4315	0.4307
Minimum	1,475.81	1,000.00
Maximum	19,986.66	20,000.00
Range Width	18,510.85	19,000.00
Mean Standard Error	10.68	---

Assumption: GOR in Oil Fields (cont'd)

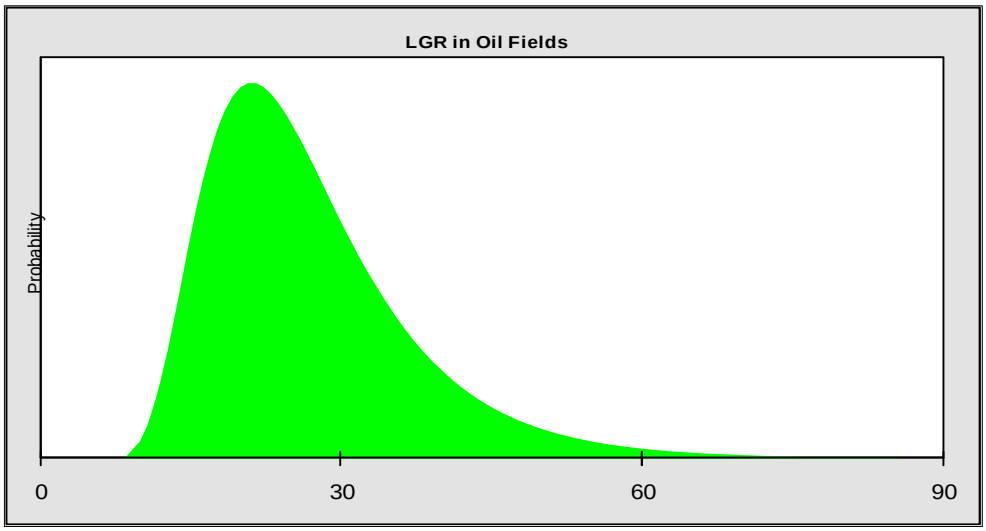
Percentiles:	Simulated values	Theoretical values
P100	1,475.81	1,000.00
P95	2,754.21	2,744.78
P90	3,100.25	3,095.47
P85	3,365.62	3,371.08
P80	3,618.06	3,615.73
P75	3,849.95	3,845.63
P70	4,071.31	4,069.23
P65	4,295.08	4,292.07
P60	4,526.30	4,518.45
P55	4,758.20	4,752.25
P50	5,011.00	4,997.47
P45	5,270.15	5,258.68
P40	5,564.16	5,541.52
P35	5,875.91	5,853.54
P30	6,216.18	6,205.47
P25	6,621.22	6,613.75
P20	7,101.77	7,105.83
P15	7,735.03	7,733.42
P10	8,609.49	8,613.65
P5	10,179.99	10,125.79
P0	19,986.66	20,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:

Mean	27.12
Standard Deviation	10.44

Selected range is from 5.00 to 85.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.01	27.05
Median	24.96	24.99
Mode	---	---
Standard Deviation	10.20	10.21
Variance	104.01	104.25
Skewness	1.33	1.31
Kurtosis	5.60	5.52
Coefficient of Variability	0.3775	0.3775
Minimum	8.44	5.00
Maximum	84.69	85.00
Range Width	76.25	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (cont'd)

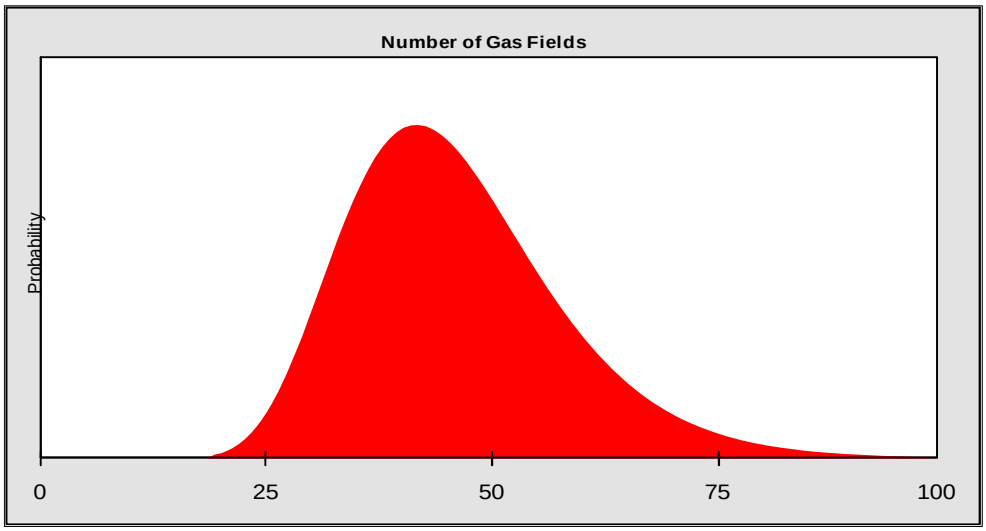
Percentiles:	Simulated values	Theoretical values
P100	8.44	5.00
P95	14.58	14.56
P90	16.22	16.25
P85	17.55	17.56
P80	18.72	18.71
P75	19.76	19.77
P70	20.76	20.80
P65	21.78	21.82
P60	22.81	22.84
P55	23.87	23.89
P50	24.96	24.99
P45	26.11	26.15
P40	27.34	27.39
P35	28.69	28.76
P30	30.23	30.28
P25	32.02	32.04
P20	34.05	34.14
P15	36.71	36.79
P10	40.29	40.46
P5	46.54	46.66
P0	84.69	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	46.54
Standard Deviation	12.16

Selected range is from 1.00 to 100.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	46.41	46.48
Median	44.83	44.99
Mode	---	---
Standard Deviation	12.03	12.01
Variance	144.72	144.22
Skewness	0.7366	0.7282
Kurtosis	3.72	3.70
Coefficient of Variability	0.2592	0.2584
Minimum	16.98	1.00
Maximum	99.92	100.00
Range Width	82.94	99.00
Mean Standard Error	0.05	---

Assumption: Number of Gas Fields (cont'd)

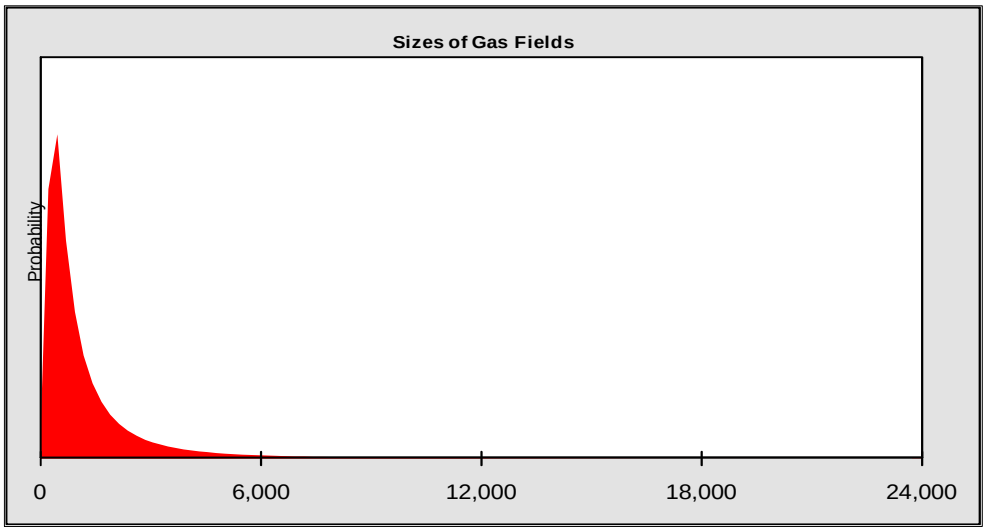
Percentiles:	Simulated values	Theoretical values
P100	16.98	1.00
P95	29.50	29.57
P90	32.37	32.43
P85	34.44	34.52
P80	36.17	36.27
P75	37.78	37.85
P70	39.24	39.33
P65	40.68	40.76
P60	42.06	42.16
P55	43.46	43.56
P50	44.83	44.99
P45	46.34	46.46
P40	47.95	48.01
P35	49.60	49.66
P30	51.37	51.47
P25	53.42	53.49
P20	55.80	55.83
P15	58.65	58.70
P10	62.47	62.51
P5	68.57	68.59
P0	99.92	100.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	1,517.64
Standard Deviation	2,150.26

Selected range is from 300.00 to 24,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,483.48	1,483.83
Median	903.23	899.11
Mode	---	---
Standard Deviation	1,788.23	1,803.45
Variance	3,197,753.79	3,252,439.59
Skewness	4.47	4.54
Kurtosis	32.46	33.55
Coefficient of Variability	1.21	1.22
Minimum	303.96	300.00
Maximum	23,923.48	24,000.00
Range Width	23,619.52	23,700.00
Mean Standard Error	8.00	---

Assumption: Sizes of Gas Fields (cont'd)

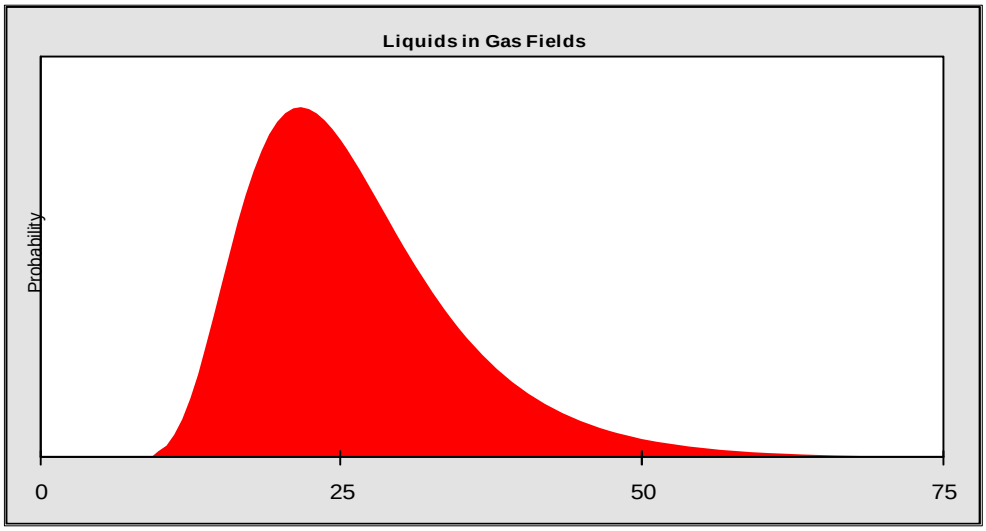
Percentiles:	Simulated values	Theoretical values
P100	303.96	300.00
P95	384.14	384.72
P90	430.46	430.52
P85	474.68	474.70
P80	520.46	520.25
P75	569.75	568.68
P70	620.42	621.18
P65	679.14	678.94
P60	744.72	743.31
P55	818.35	815.98
P50	903.22	899.11
P45	997.32	995.60
P40	1,115.30	1,109.57
P35	1,252.58	1,246.97
P30	1,419.33	1,417.04
P25	1,641.28	1,634.87
P20	1,934.78	1,927.57
P15	2,363.19	2,350.18
P10	3,022.01	3,039.58
P5	4,492.23	4,500.65
P0	23,923.48	24,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:

Mean	26.71
Standard Deviation	9.18

Selected range is from 5.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.62	26.66
Median	24.97	24.99
Mode	---	---
Standard Deviation	8.93	9.00
Variance	79.76	80.97
Skewness	1.16	1.17
Kurtosis	4.95	4.99
Coefficient of Variability	0.3355	0.3376
Minimum	7.98	5.00
Maximum	74.94	75.00
Range Width	66.96	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	7.98	5.00
P95	15.26	15.26
P90	16.91	16.89
P85	18.16	18.13
P80	19.21	19.21
P75	20.21	20.21
P70	21.19	21.16
P65	22.11	22.10
P60	23.04	23.04
P55	24.00	24.00
P50	24.97	24.99
P45	26.01	26.03
P40	27.13	27.15
P35	28.35	28.36
P30	29.67	29.72
P25	31.19	31.26
P20	33.03	33.10
P15	35.36	35.40
P10	38.44	38.56
P5	43.60	43.82
P0	74.94	75.00

End of Assumptions

Simulation started on 11/27/2007 at 12:13:47
Simulation stopped on 11/27/2007 at 12:37:12