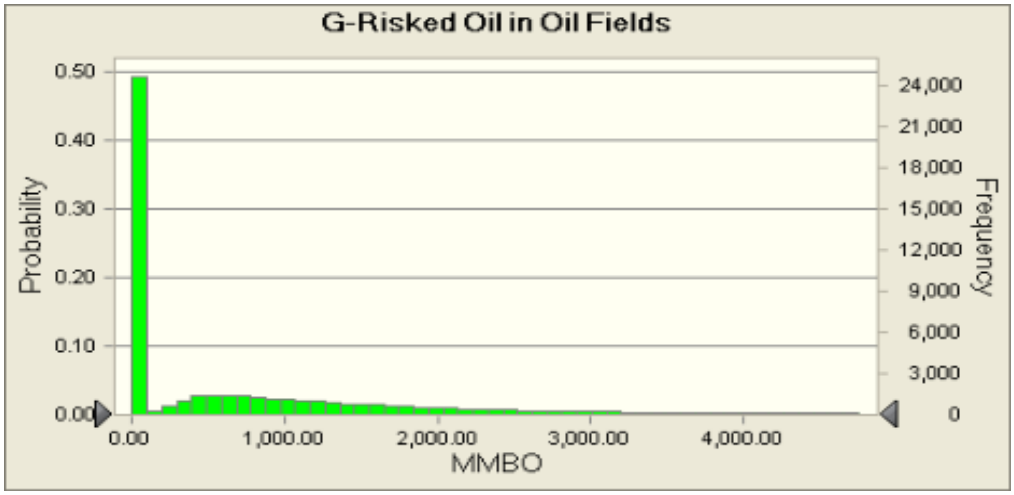
52030101
Lincoln Sea Basin
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 16,263.07
After 50,000 trials, the standard error of the mean is 6.21



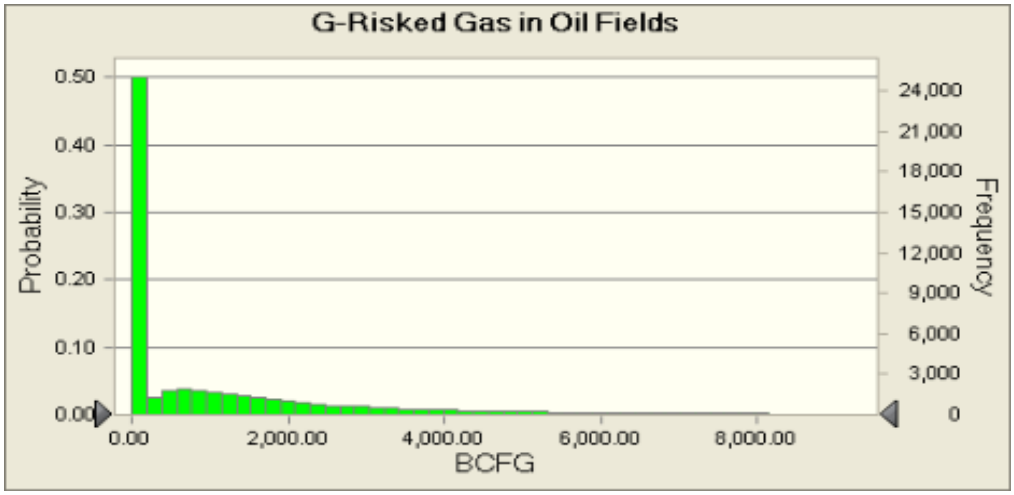
Statistics:	Forecast values
Trials	50,000
Mean	866.65
Median	205.06
Mode	0.00
Standard Deviation	1,388.17
Variance	1,927,004.38
Skewness	2.70
Kurtosis	13.23
Coefficient of Variability	1.60
Minimum	0.00
Maximum	16,263.07
Range Width	16,263.07
Mean Standard Error	6.21

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	205.03
P45	449.49
P40	630.03
P35	809.87
P30	1,010.44
P25	1,247.09
P20	1,547.35
P15	1,928.54
P10	2,500.33
P5	3,620.86
P0	16,263.07

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 129,648.20
After 50,000 trials, the standard error of the mean is 12.67



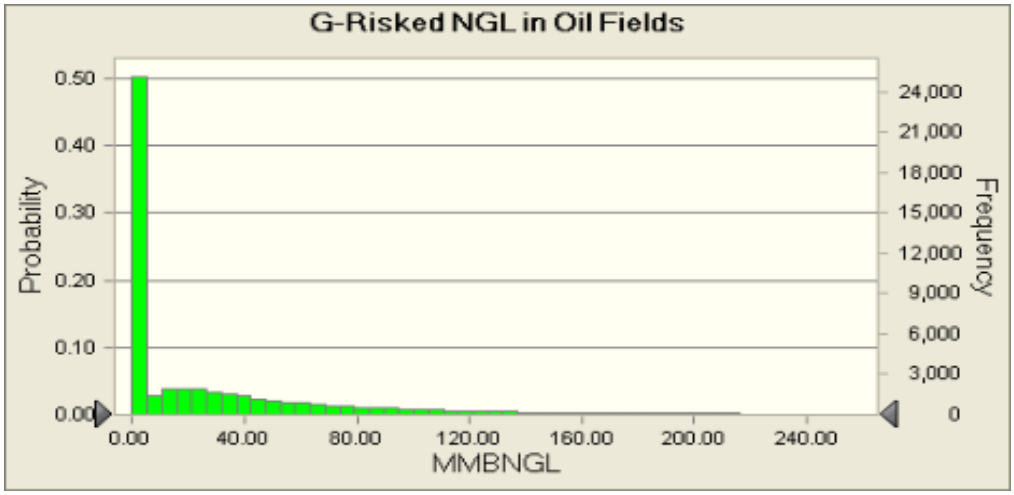
Statistics:	Forecast values
Trials	50,000
Mean	1,350.27
Median	181.01
Mode	0.00
Standard Deviation	2,833.83
Variance	8,030,599.54
Skewness	8.50
Kurtosis	189.62
Coefficient of Variability	2.10
Minimum	0.00
Maximum	129,648.20
Range Width	129,648.20
Mean Standard Error	12.67

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	180.96
P45	508.53
P40	761.11
P35	1,031.28
P30	1,337.10
P25	1,704.70
P20	2,159.63
P15	2,802.03
P10	3,803.29
P5	5,740.15
P0	129,648.20

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 3,693.00
After 50,000 trials, the standard error of the mean is 0.35



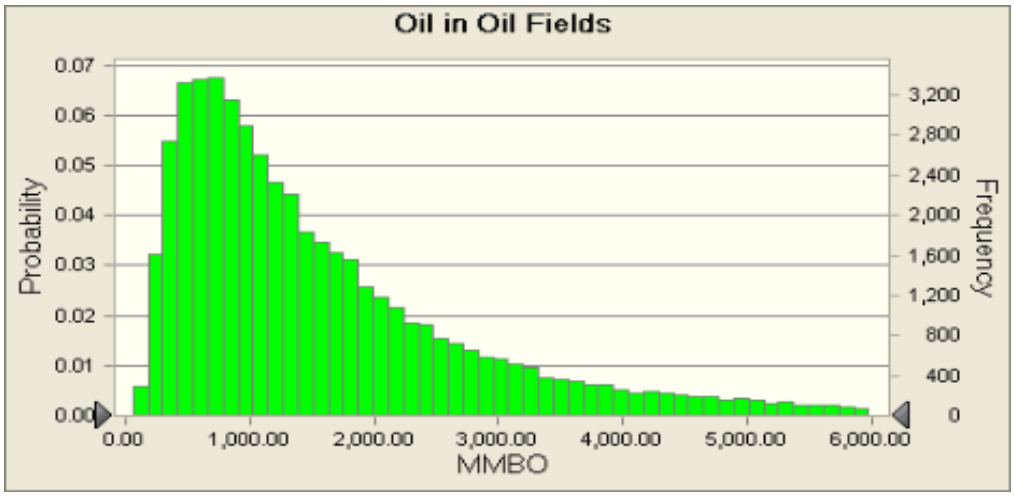
Statistics:	Forecast values
Trials	50,000
Mean	36.56
Median	4.49
Mode	0.00
Standard Deviation	79.13
Variance	6,262.09
Skewness	8.89
Kurtosis	203.20
Coefficient of Variability	2.16
Minimum	0.00
Maximum	3,693.00
Range Width	3,693.00
Mean Standard Error	0.35

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	4.49
P45	13.07
P40	19.99
P35	26.92
P30	35.15
P25	44.76
P20	57.46
P15	74.83
P10	102.14
P5	156.01
P0	3,693.00

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 56.72 to 16,263.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.82



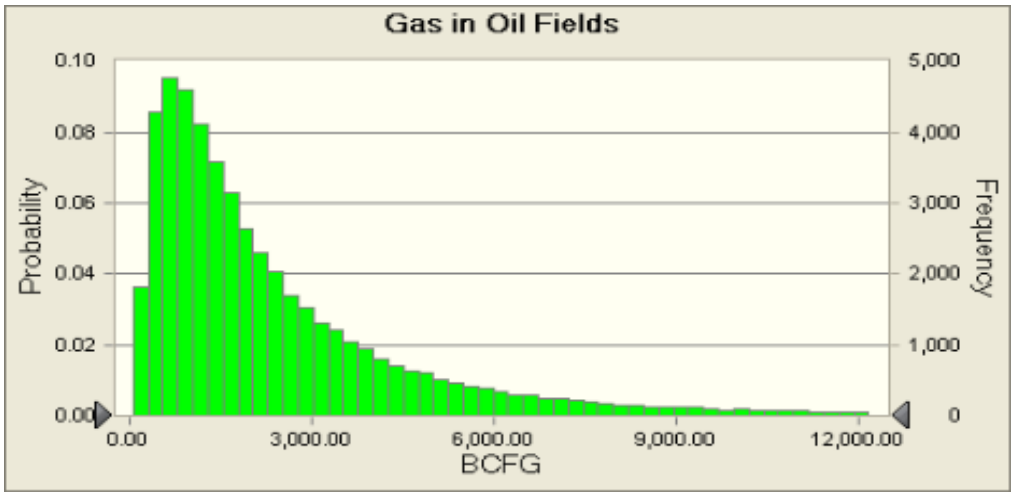
Statistics:	Forecast values
Trials	50,000
Mean	1,705.30
Median	1,231.13
Mode	---
Standard Deviation	1,525.42
Variance	2,326,902.87
Skewness	2.32
Kurtosis	10.65
Coefficient of Variability	0.8945
Minimum	56.72
Maximum	16,263.07
Range Width	16,206.35
Mean Standard Error	6.82

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

Percentiles:	MMBO
P100	56.72
P95	328.09
P90	433.96
P85	524.55
P80	614.71
P75	702.66
P70	793.31
P65	888.90
P60	992.22
P55	1,103.81
P50	1,231.11
P45	1,365.19
P40	1,527.51
P35	1,707.26
P30	1,901.53
P25	2,155.62
P20	2,475.85
P15	2,911.67
P10	3,562.07
P5	4,793.32
P0	16,263.07

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 46.14 to 129,648.20
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 15.21



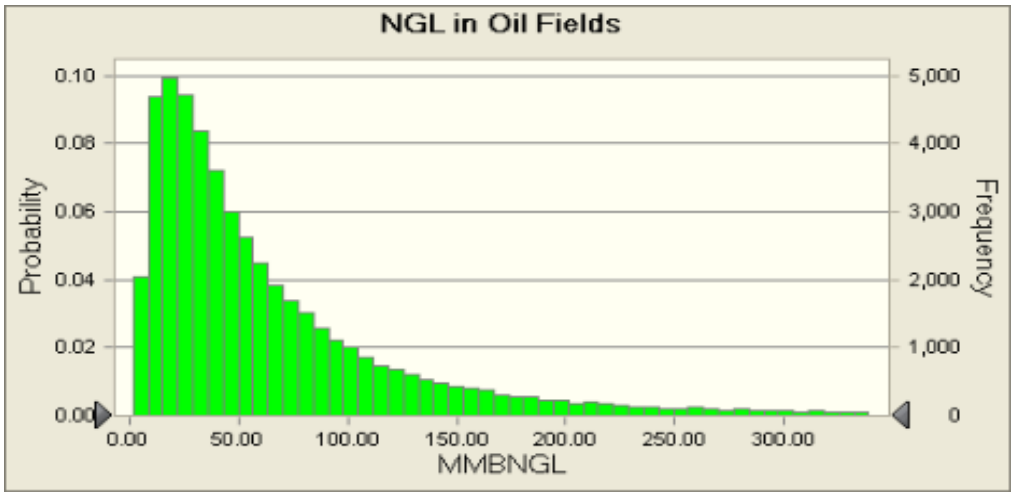
Statistics:	Forecast values
Trials	50,000
Mean	2,651.80
Median	1,669.32
Mode	---
Standard Deviation	3,401.42
Variance	11,569,683.58
Skewness	6.78
Kurtosis	113.18
Coefficient of Variability	1.28
Minimum	46.14
Maximum	129,648.20
Range Width	129,602.06
Mean Standard Error	15.21

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

Percentiles:	BCFG
P100	46.14
P95	341.70
P90	483.01
P85	611.84
P80	738.57
P75	871.70
P70	1,008.97
P65	1,151.53
P60	1,309.84
P55	1,481.15
P50	1,669.24
P45	1,881.03
P40	2,131.70
P35	2,421.15
P30	2,769.15
P25	3,191.38
P20	3,741.21
P15	4,497.58
P10	5,673.81
P5	8,018.05
P0	129,648.20

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 0.98 to 3,693.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.43



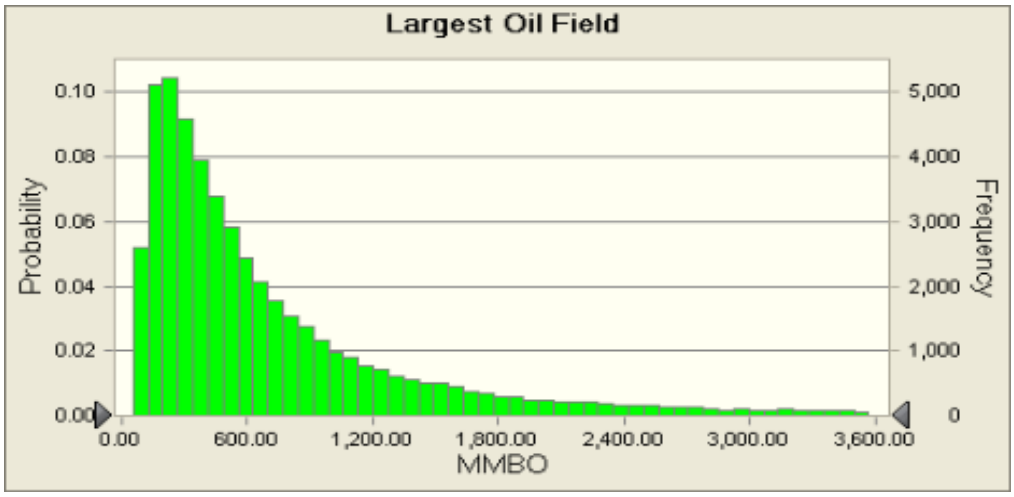
Statistics:	Forecast values
Trials	50,000
Mean	71.62
Median	44.07
Mode	---
Standard Deviation	95.64
Variance	9,146.07
Skewness	7.02
Kurtosis	118.75
Coefficient of Variability	1.34
Minimum	0.98
Maximum	3,693.00
Range Width	3,692.03
Mean Standard Error	0.43

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

Percentiles:	MMBNGL
P100	0.98
P95	8.70
P90	12.43
P85	15.86
P80	19.24
P75	22.83
P70	26.38
P65	30.19
P60	34.38
P55	38.86
P50	44.07
P45	49.93
P40	56.62
P35	64.53
P30	73.95
P25	85.26
P20	100.25
P15	121.17
P10	153.93
P5	218.53
P0	3,693.00

Forecast: Largest Oil Field

Summary:
Entire range is from 51.78 to 7,996.71
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.39



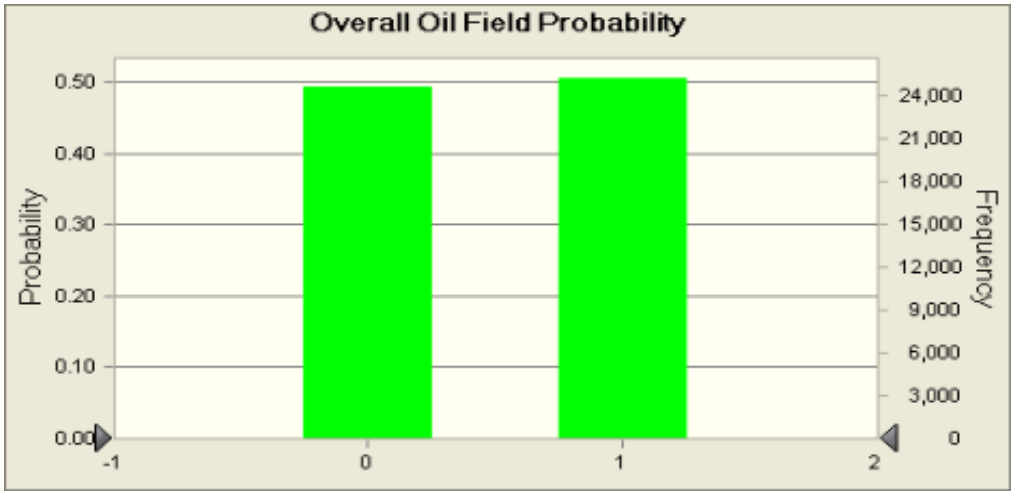
Statistics:	Forecast values
Trials	50,000
Mean	817.60
Median	485.23
Mode	---
Standard Deviation	982.00
Variance	964,321.97
Skewness	3.16
Kurtosis	15.80
Coefficient of Variability	1.20
Minimum	51.78
Maximum	7,996.71
Range Width	7,944.93
Mean Standard Error	4.39

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	51.78
P95	121.99
P90	159.44
P85	192.72
P80	225.51
P75	260.71
P70	298.49
P65	338.72
P60	383.27
P55	430.23
P50	485.23
P45	546.53
P40	619.34
P35	705.60
P30	811.06
P25	944.83
P20	1,128.61
P15	1,396.53
P10	1,814.91
P5	2,714.50
P0	7,996.71

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



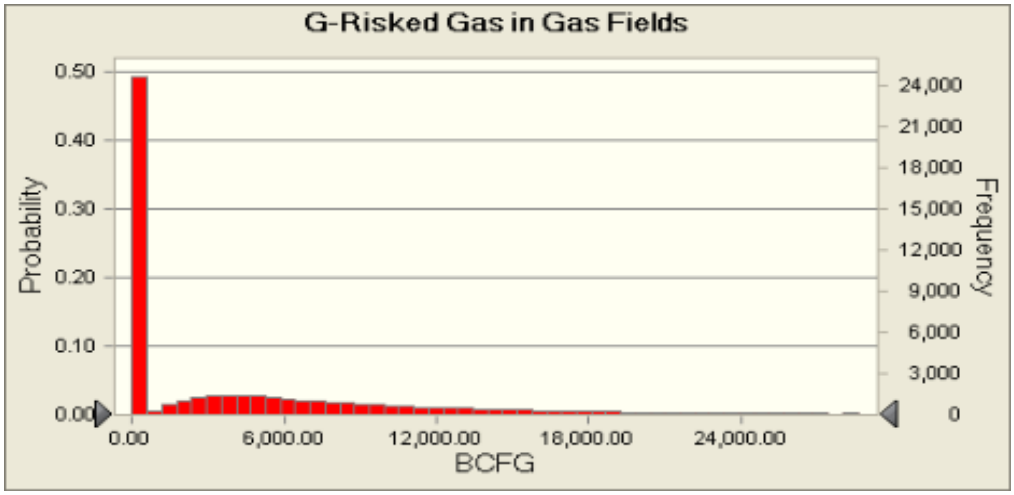
Statistics:	Forecast values	
Trials	50,000	
Mean	0.5060	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.50	
Variance	0.25	
Skewness	-0.0240	
Kurtosis	1.00	
Coefficient of Variability	0.9881	
Minimum	0.00	
Maximum	1.00	
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 97,894.56
After 50,000 trials, the standard error of the mean is 37.36



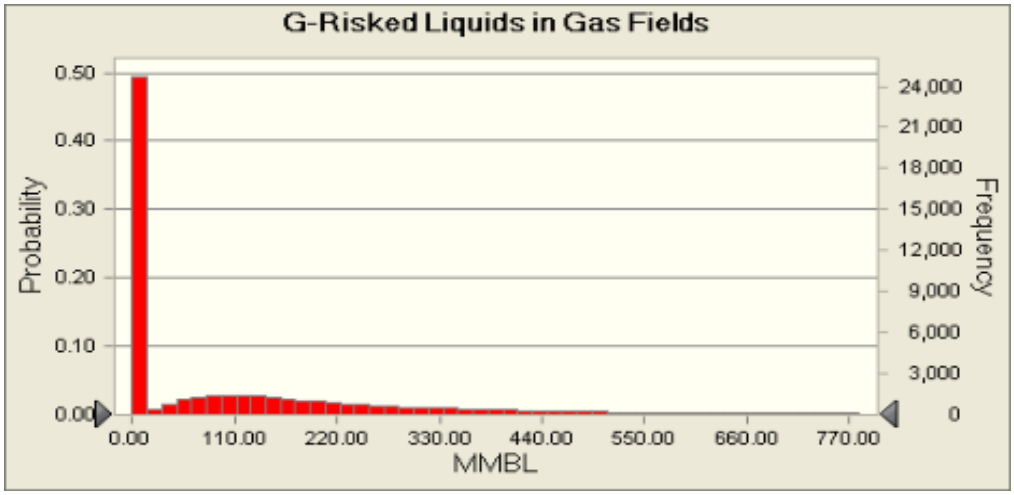
Statistics:	Forecast values
Trials	50,000
Mean	5,208.09
Median	1,267.43
Mode	0.00
Standard Deviation	8,353.48
Variance	69,780,551.34
Skewness	2.78
Kurtosis	14.14
Coefficient of Variability	1.60
Minimum	0.00
Maximum	97,894.56
Range Width	97,894.56
Mean Standard Error	37.36

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	1,267.35
P45	2,739.65
P40	3,811.20
P35	4,909.77
P30	6,076.34
P25	7,552.37
P20	9,266.26
P15	11,633.25
P10	15,086.92
P5	21,401.22
P0	97,894.56

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 3,298.72
After 50,000 trials, the standard error of the mean is 1.02



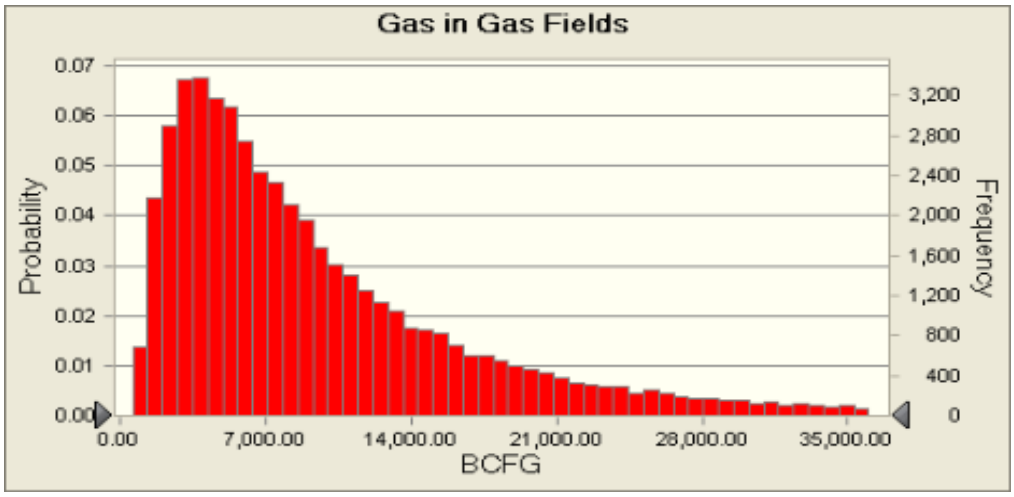
Statistics:	Forecast values
Trials	50,000
Mean	138.86
Median	30.92
Mode	0.00
Standard Deviation	228.73
Variance	52,317.90
Skewness	3.06
Kurtosis	17.57
Coefficient of Variability	1.65
Minimum	0.00
Maximum	3,298.72
Range Width	3,298.72
Mean Standard Error	1.02

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	30.92
P45	70.01
P40	98.98
P35	127.87
P30	159.13
P25	196.84
P20	244.08
P15	308.08
P10	402.37
P5	574.23
P0	3,298.72

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 612.19 to 103,422.14
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 41.13



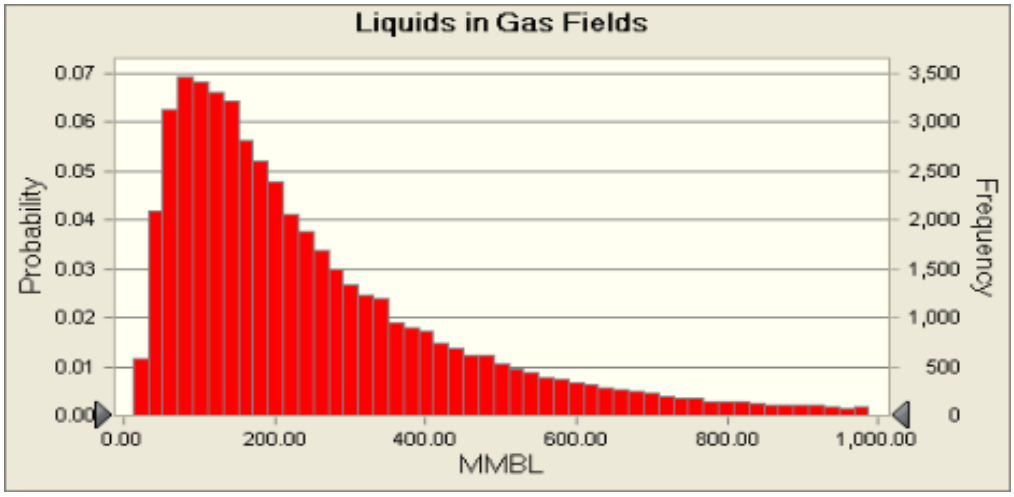
Statistics:	Forecast values
Trials	50,000
Mean	10,260.94
Median	7,443.47
Mode	---
Standard Deviation	9,197.25
Variance	84,589,410.22
Skewness	2.37
Kurtosis	11.10
Coefficient of Variability	0.8963
Minimum	612.19
Maximum	103,422.14
Range Width	102,809.95
Mean Standard Error	41.13

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

Percentiles:	BCFG
P100	612.19
P95	1,956.16
P90	2,584.79
P85	3,149.03
P80	3,694.62
P75	4,221.18
P70	4,791.00
P65	5,370.43
P60	5,984.98
P55	6,680.03
P50	7,443.42
P45	8,248.43
P40	9,150.27
P35	10,243.36
P30	11,490.12
P25	13,019.58
P20	14,976.72
P15	17,561.93
P10	21,327.48
P5	28,486.40
P0	103,422.14

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 11.09 to 3,298.72
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.14



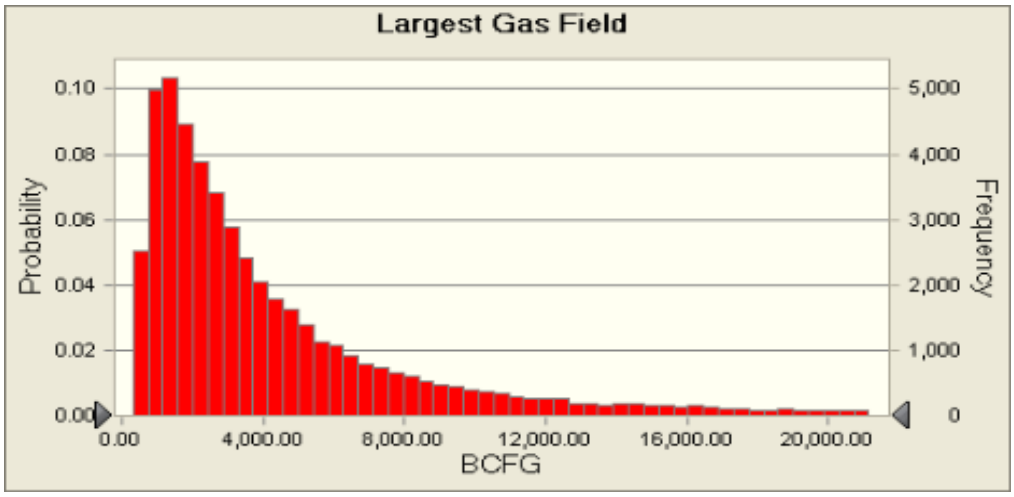
Statistics:	Forecast values
Trials	50,000
Mean	272.98
Median	194.00
Mode	---
Standard Deviation	255.28
Variance	65,167.39
Skewness	2.66
Kurtosis	14.01
Coefficient of Variability	0.9351
Minimum	11.09
Maximum	3,298.72
Range Width	3,287.63
Mean Standard Error	1.14

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

Percentiles:	MMBL
P100	11.09
P95	49.94
P90	66.06
P85	81.07
P80	95.35
P75	109.88
P70	124.81
P65	140.29
P60	156.35
P55	174.40
P50	194.00
P45	215.51
P40	240.66
P35	269.20
P30	304.01
P25	344.18
P20	396.98
P15	467.71
P10	570.58
P5	763.15
P0	3,298.72

Forecast: Largest Gas Field

Summary:
Entire range is from 309.39 to 47,842.56
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 25.93



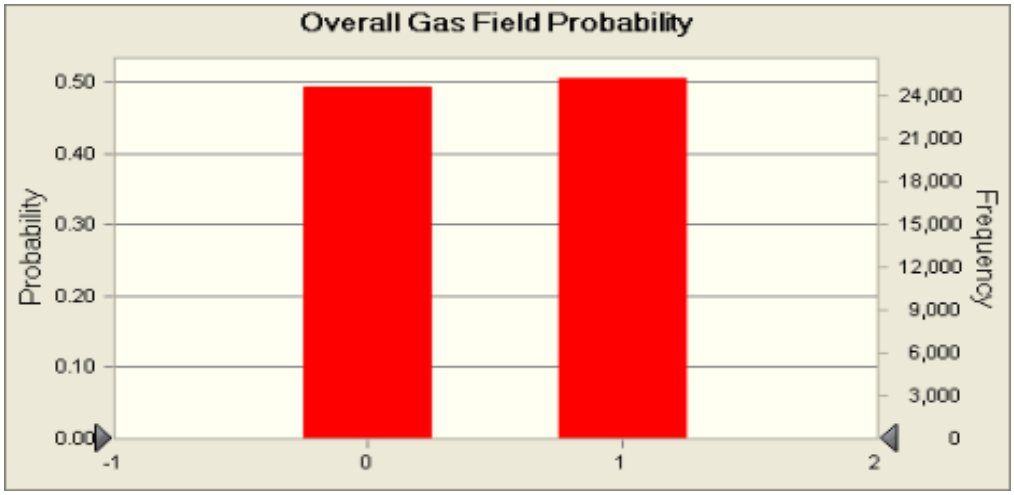
Statistics:	Forecast values
Trials	50,000
Mean	4,906.15
Median	2,939.85
Mode	---
Standard Deviation	5,798.27
Variance	33,619,910.31
Skewness	3.12
Kurtosis	15.63
Coefficient of Variability	1.18
Minimum	309.39
Maximum	47,842.56
Range Width	47,533.16
Mean Standard Error	25.93

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	309.39
P95	731.48
P90	952.18
P85	1,158.80
P80	1,361.05
P75	1,570.99
P70	1,803.25
P65	2,047.54
P60	2,315.96
P55	2,612.18
P50	2,939.73
P45	3,315.51
P40	3,764.81
P35	4,300.22
P30	4,932.82
P25	5,747.42
P20	6,833.63
P15	8,416.16
P10	10,928.13
P5	16,149.06
P0	47,842.56

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	0.5060	= 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	-0.0240	
Kurtosis	1.00	
Coefficient of Variability	0.9881	
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

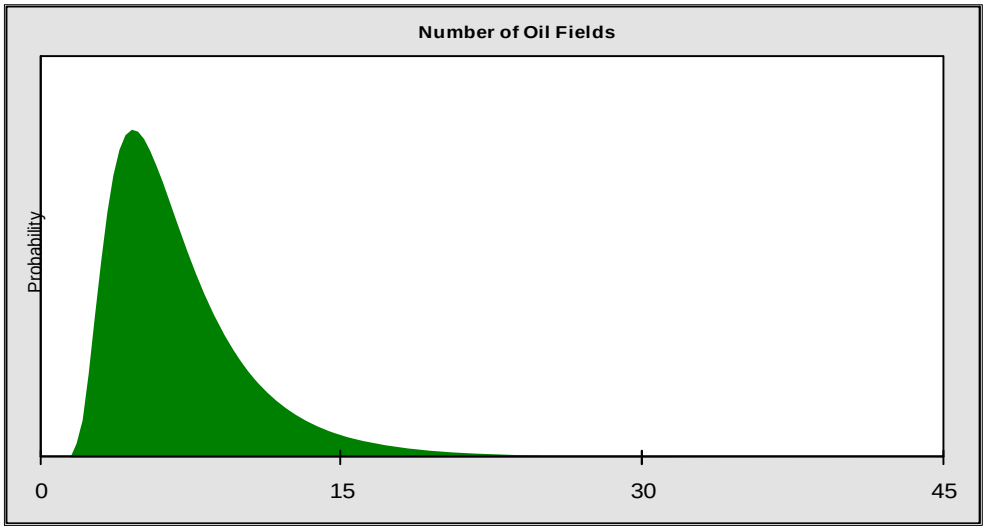
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	6.95
Standard Deviation	3.84

Selected range is from 1.00 to 32.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.90	6.92
Median	6.00	6.00
Mode	---	---
Standard Deviation	3.68	3.71
Variance	13.51	13.79
Skewness	1.79	1.80
Kurtosis	7.85	7.86
Coefficient of Variability	0.5325	0.5365
Minimum	1.43	1.00
Maximum	31.89	32.00
Range Width	30.46	31.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (cont'd)

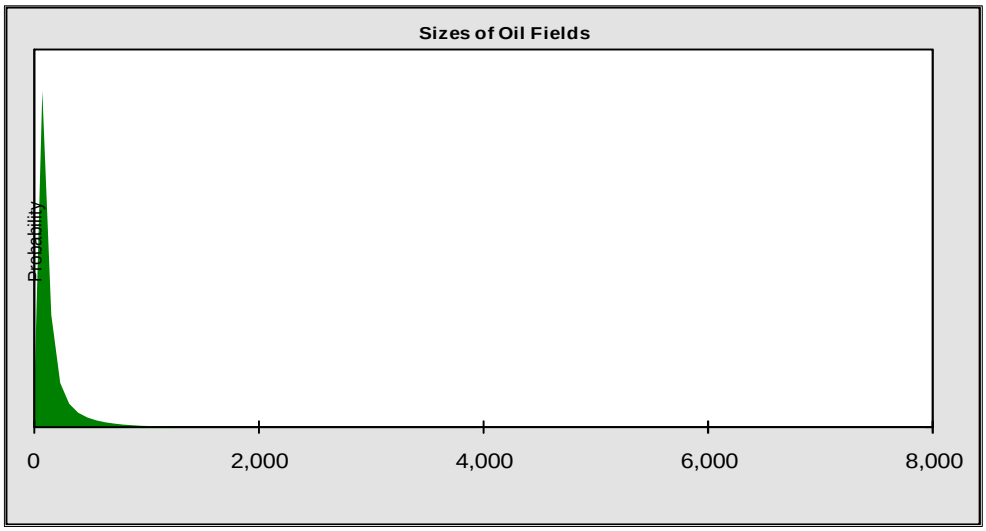
Percentiles:	Simulated values	Theoretical values
P100	1.43	1.00
P95	2.91	2.89
P90	3.36	3.35
P85	3.72	3.71
P80	4.05	4.04
P75	4.35	4.36
P70	4.66	4.67
P65	4.97	4.98
P60	5.29	5.30
P55	5.63	5.64
P50	6.00	6.00
P45	6.38	6.38
P40	6.80	6.80
P35	7.27	7.27
P30	7.80	7.81
P25	8.43	8.44
P20	9.14	9.20
P15	10.13	10.20
P10	11.53	11.62
P5	14.04	14.13
P0	31.89	32.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	259.51
Standard Deviation	700.95

Selected range is from 50.00 to 8,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	245.97	246.67
Median	110.09	109.88
Mode	---	---
Standard Deviation	472.60	462.28
Variance	223,352.89	213,702.67
Skewness	7.20	6.93
Kurtosis	75.52	71.23
Coefficient of Variability	1.92	1.87
Minimum	50.04	50.00
Maximum	7,899.41	8,000.00
Range Width	7,849.36	7,950.00
Mean Standard Error	2.11	---

Assumption: Sizes of Oil Fields (cont'd)

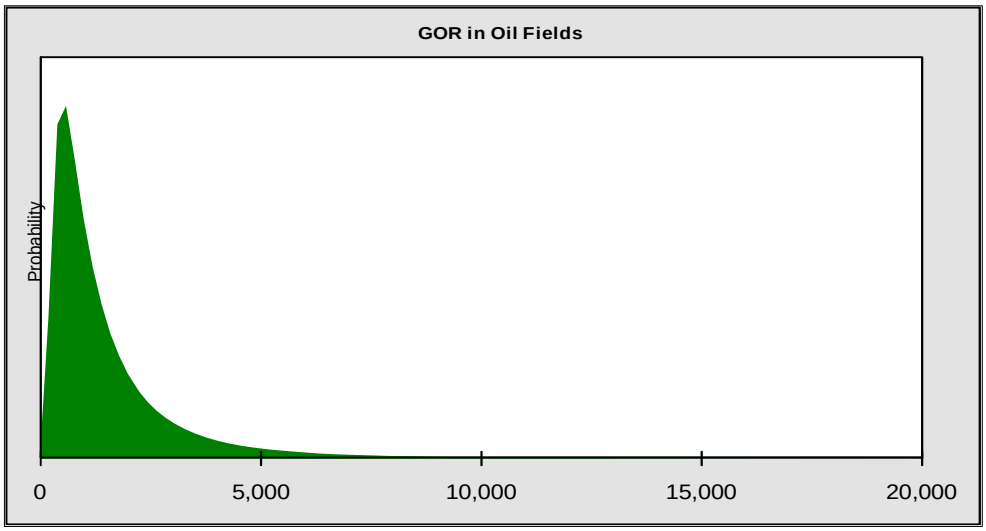
Percentiles:	Simulated values	Theoretical values
P100	50.04	50.00
P95	54.48	54.45
P90	57.80	57.90
P85	61.62	61.64
P80	65.82	65.84
P75	70.60	70.62
P70	76.14	76.15
P65	82.54	82.57
P60	90.17	90.13
P55	99.34	99.10
P50	110.09	109.88
P45	122.77	123.03
P40	138.88	139.35
P35	159.71	160.05
P30	186.74	187.07
P25	222.85	223.69
P20	276.24	276.06
P15	355.16	357.24
P10	501.72	501.66
P5	843.19	847.18
P0	7,899.41	8,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:

Mean	1,586.77
Standard Deviation	1,954.99

Selected range is from 100.00 to 20,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,565.30	1,560.86
Median	1,002.12	998.87
Mode	---	---
Standard Deviation	1,758.65	1,751.30
Variance	3,092,848.13	3,067,051.73
Skewness	3.59	3.56
Kurtosis	22.49	21.98
Coefficient of Variability	1.12	1.12
Minimum	111.49	100.00
Maximum	19,991.02	20,000.00
Range Width	19,879.53	19,900.00
Mean Standard Error	7.86	---

Assumption: GOR in Oil Fields (cont'd)

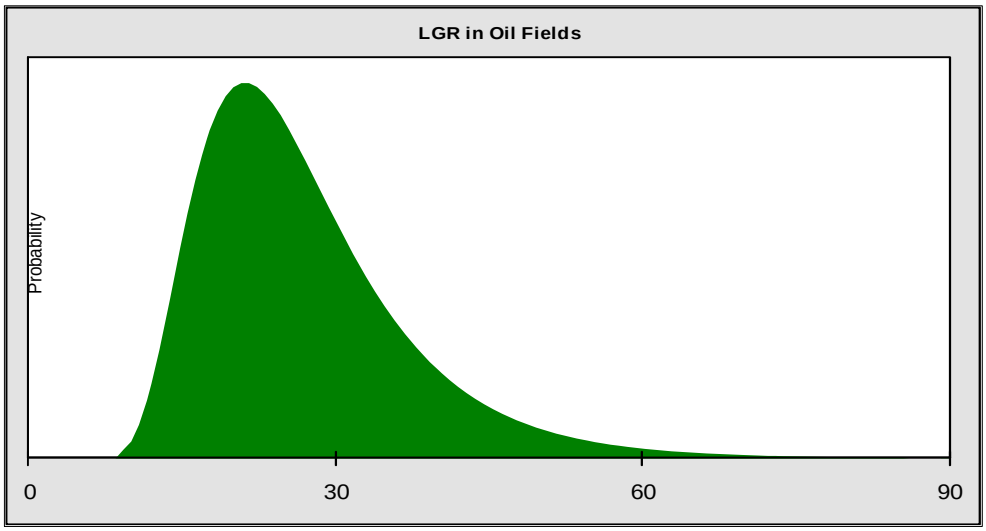
Percentiles:	Simulated values	Theoretical values
P100	111.49	100.00
P95	271.25	273.09
P90	346.97	349.07
P85	416.64	418.39
P80	486.74	486.99
P75	555.18	557.51
P70	629.00	631.71
P65	709.47	711.17
P60	798.47	797.51
P55	896.84	892.62
P50	1,002.11	998.87
P45	1,123.96	1,119.34
P40	1,265.48	1,258.27
P35	1,429.86	1,421.75
P30	1,627.91	1,619.00
P25	1,875.12	1,864.90
P20	2,190.97	2,185.60
P15	2,641.53	2,633.15
P10	3,356.35	3,333.57
P5	4,747.64	4,734.66
P0	19,991.02	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	27.02	27.05
Median	24.93	24.99
Mode	---	---
Standard Deviation	10.20	10.21
Variance	104.04	104.25
Skewness	1.32	1.31
Kurtosis	5.58	5.52
Coefficient of Variability	0.3775	0.3775
Minimum	7.90	5.00
Maximum	84.78	85.00
Range Width	76.89	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (cont'd)

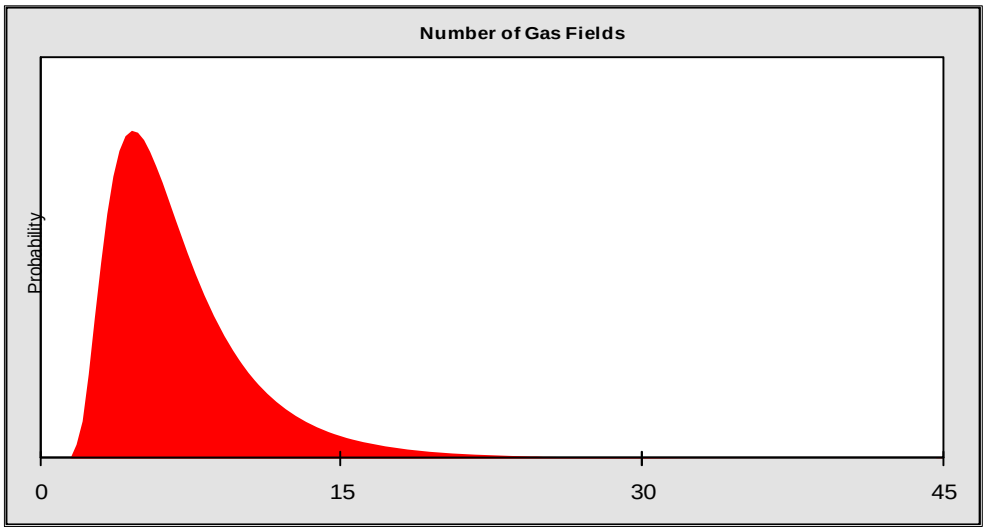
Percentiles:	Simulated values	Theoretical values
P100	7.90	5.00
P95	14.58	14.56
P90	16.24	16.25
P85	17.54	17.56
P80	18.69	18.71
P75	19.77	19.77
P70	20.81	20.80
P65	21.83	21.82
P60	22.88	22.84
P55	23.89	23.89
P50	24.93	24.99
P45	26.09	26.15
P40	27.33	27.39
P35	28.66	28.76
P30	30.23	30.28
P25	31.95	32.04
P20	34.13	34.14
P15	36.80	36.79
P10	40.47	40.46
P5	46.50	46.66
P0	84.78	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	6.95
Standard Deviation	3.84

Selected range is from 1.00 to 32.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.92	6.92
Median	5.99	6.00
Mode	---	---
Standard Deviation	3.72	3.71
Variance	13.81	13.79
Skewness	1.78	1.80
Kurtosis	7.76	7.86
Coefficient of Variability	0.5368	0.5365
Minimum	1.53	1.00
Maximum	31.96	32.00
Range Width	30.43	31.00
Mean Standard Error	0.02	---

Assumption: Number of Gas Fields (cont'd)

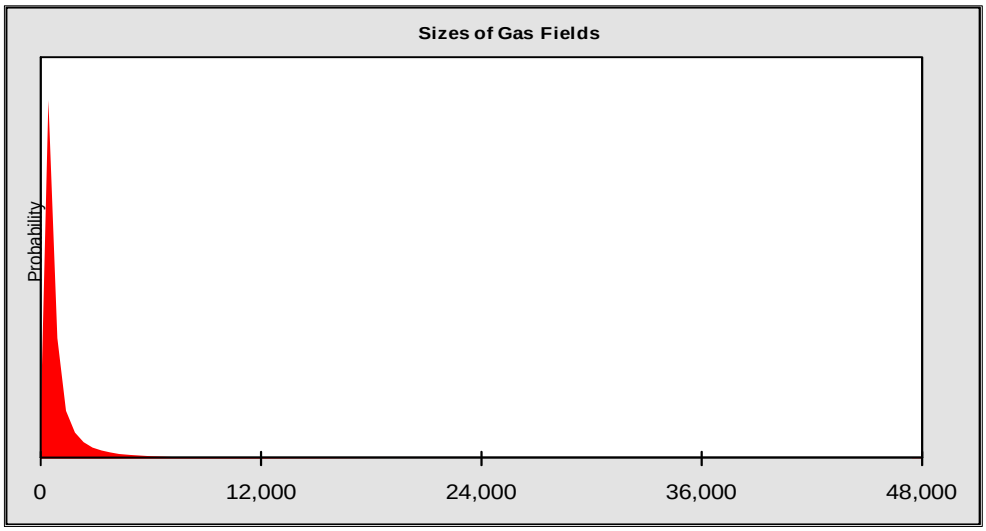
Percentiles:	Simulated values	Theoretical values
P100	1.53	1.00
P95	2.90	2.89
P90	3.35	3.35
P85	3.71	3.71
P80	4.03	4.04
P75	4.35	4.36
P70	4.66	4.67
P65	4.97	4.98
P60	5.30	5.30
P55	5.64	5.64
P50	5.99	6.00
P45	6.39	6.38
P40	6.81	6.80
P35	7.27	7.27
P30	7.81	7.81
P25	8.45	8.44
P20	9.23	9.20
P15	10.21	10.20
P10	11.66	11.62
P5	14.16	14.13
P0	31.96	32.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	1,557.08
Standard Deviation	4,205.73

Selected range is from 300.00 to 48,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,501.43	1,480.05
Median	666.77	659.29
Mode	---	---
Standard Deviation	2,847.23	2,773.68
Variance	8,106,740.80	7,693,296.10
Skewness	6.90	6.93
Kurtosis	70.24	71.23
Coefficient of Variability	1.90	1.87
Minimum	300.28	300.00
Maximum	47,606.52	48,000.00
Range Width	47,306.23	47,700.00
Mean Standard Error	12.73	---

Assumption: Sizes of Gas Fields (cont'd)

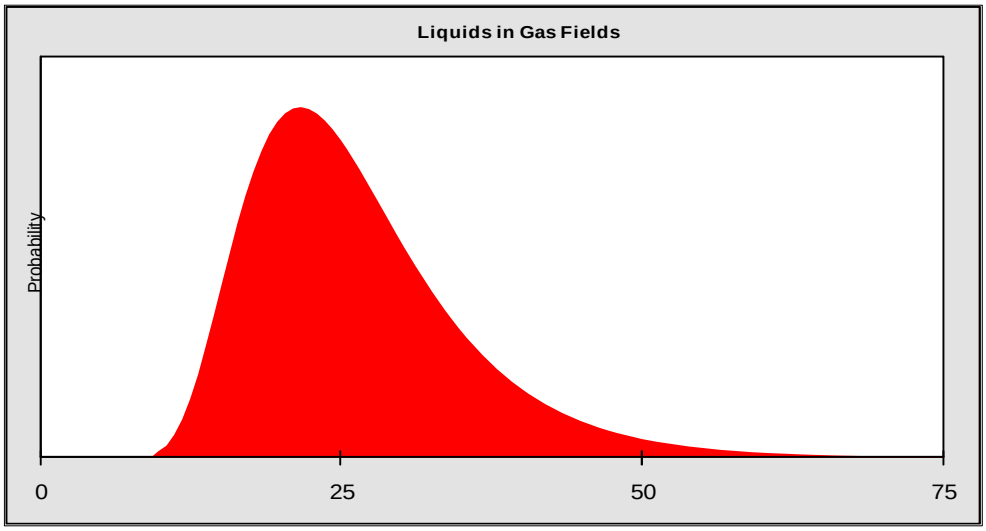
Percentiles:	Simulated values	Theoretical values
P100	300.28	300.00
P95	326.82	326.69
P90	347.79	347.40
P85	370.80	369.83
P80	396.31	395.01
P75	425.79	423.74
P70	459.42	456.87
P65	497.81	495.44
P60	544.45	540.76
P55	600.32	594.59
P50	666.76	659.29
P45	744.74	738.18
P40	843.06	836.09
P35	972.28	960.29
P30	1,135.46	1,122.39
P25	1,356.44	1,342.13
P20	1,676.10	1,656.34
P15	2,158.78	2,143.42
P10	3,058.65	3,009.94
P5	5,206.55	5,083.06
P0	47,606.52	48,000.00

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	26.64	26.66
Median	25.01	24.99
Mode	---	---
Standard Deviation	8.91	9.00
Variance	79.41	80.97
Skewness	1.14	1.17
Kurtosis	4.89	4.99
Coefficient of Variability	0.3346	0.3376
Minimum	8.80	5.00
Maximum	74.85	75.00
Range Width	66.05	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	8.80	5.00
P95	15.29	15.26
P90	16.92	16.89
P85	18.14	18.13
P80	19.22	19.21
P75	20.23	20.21
P70	21.21	21.16
P65	22.14	22.10
P60	23.07	23.04
P55	24.04	24.00
P50	25.01	24.99
P45	26.06	26.03
P40	27.14	27.15
P35	28.35	28.36
P30	29.73	29.72
P25	31.27	31.26
P20	33.08	33.10
P15	35.32	35.40
P10	38.44	38.56
P5	43.68	43.82
P0	74.85	75.00

End of Assumptions

Simulation started on 5/16/2008 at 14:43:35
Simulation stopped on 5/16/2008 at 14:54:01