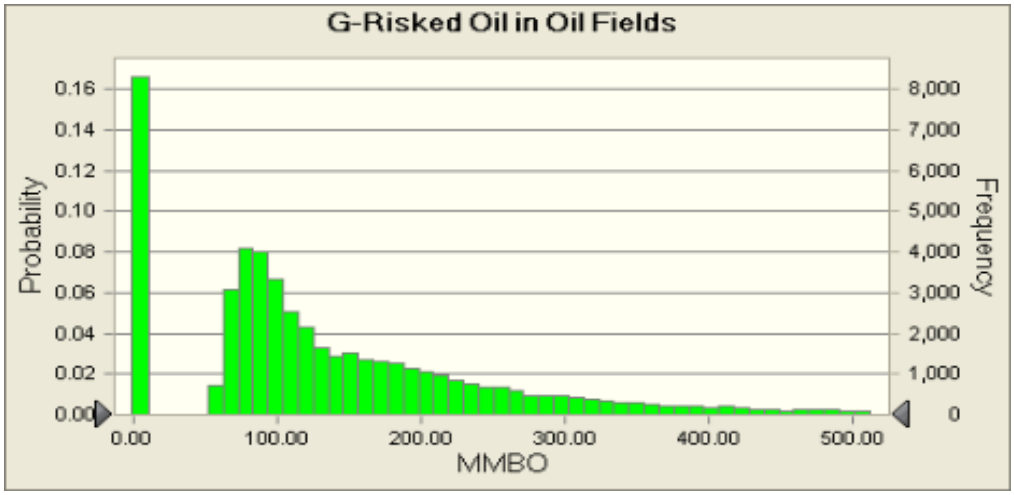
10500101
Kolguyev Terrace
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 1,320.75
After 50,000 trials, the standard error of the mean is 0.58



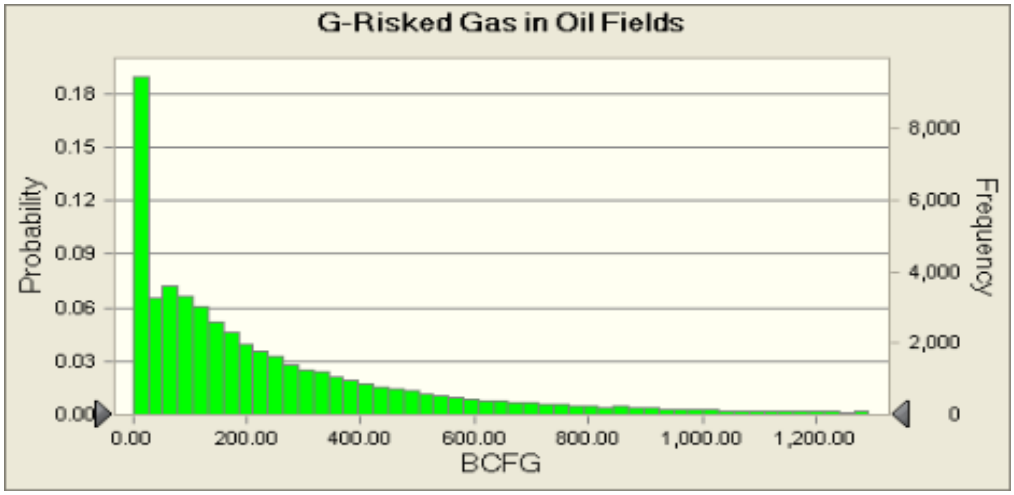
Statistics:	Forecast values
Trials	50,000
Mean	145.40
Median	110.13
Mode	0.00
Standard Deviation	130.74
Variance	17,091.77
Skewness	1.93
Kurtosis	9.15
Coefficient of Variability	0.8991
Minimum	0.00
Maximum	1,320.75
Range Width	1,320.75
Mean Standard Error	0.58

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

Percentiles:	MMBO
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	66.68
P75	74.16
P70	80.42
P65	86.85
P60	93.31
P55	100.96
P50	110.13
P45	121.68
P40	136.60
P35	154.35
P30	173.29
P25	194.58
P20	219.90
P15	254.97
P10	306.07
P5	397.85
P0	1,320.75

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 5,952.81
After 50,000 trials, the standard error of the mean is 1.62



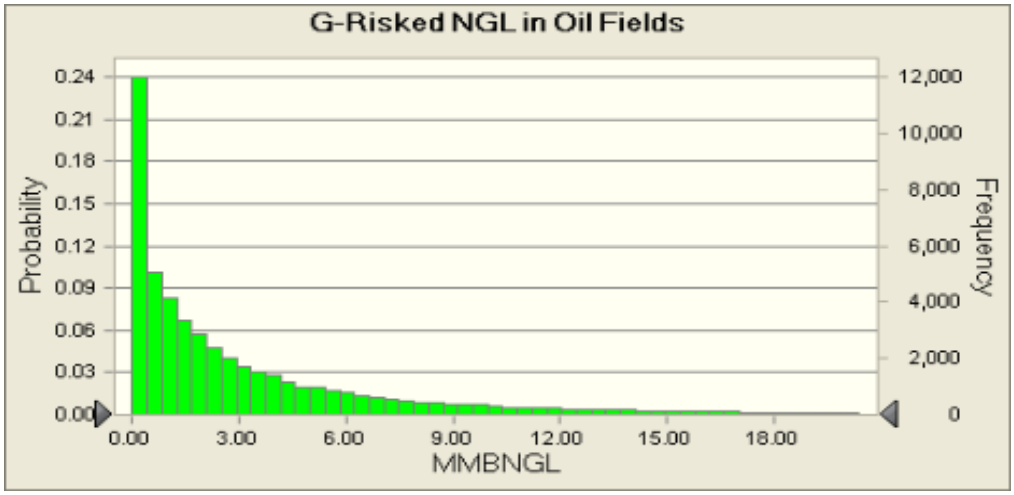
Statistics:	Forecast values
Trials	50,000
Mean	275.04
Median	155.23
Mode	0.00
Standard Deviation	363.00
Variance	131,770.39
Skewness	3.12
Kurtosis	19.48
Coefficient of Variability	1.32
Minimum	0.00
Maximum	5,952.81
Range Width	5,952.81
Mean Standard Error	1.62

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

Percentiles:	BCFG
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	31.44
P75	50.93
P70	68.91
P65	87.87
P60	107.90
P55	130.18
P50	155.23
P45	183.34
P40	217.43
P35	256.08
P30	302.51
P25	358.70
P20	431.48
P15	530.09
P10	684.67
P5	973.20
P0	5,952.81

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 134.69
After 50,000 trials, the standard error of the mean is 0.03



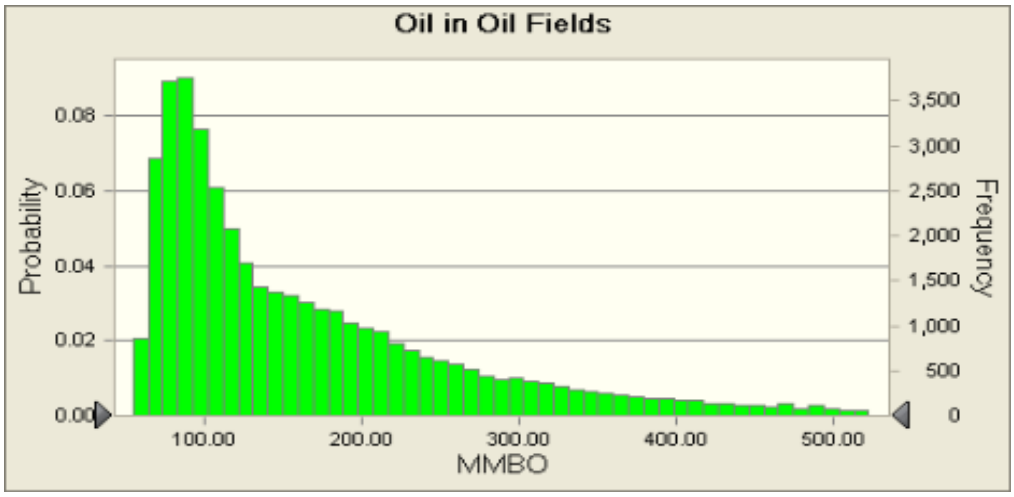
Statistics:	Forecast values
Trials	50,000
Mean	3.73
Median	1.72
Mode	0.00
Standard Deviation	5.94
Variance	35.31
Skewness	4.42
Kurtosis	38.04
Coefficient of Variability	1.59
Minimum	0.00
Maximum	134.69
Range Width	134.69
Mean Standard Error	0.03

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

Percentiles:	MMBNGL
P100	0.00
P95	0.00
P90	0.00
P85	0.00
P80	0.26
P75	0.45
P70	0.65
P65	0.87
P60	1.12
P55	1.40
P50	1.72
P45	2.08
P40	2.53
P35	3.06
P30	3.73
P25	4.56
P20	5.63
P15	7.17
P10	9.56
P5	14.12
P0	134.69

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 53.73 to 1,320.75 (filtered)
Filter range is from 0.00 to Infinity
After 41,691 trials, the standard error of the mean is 0.61



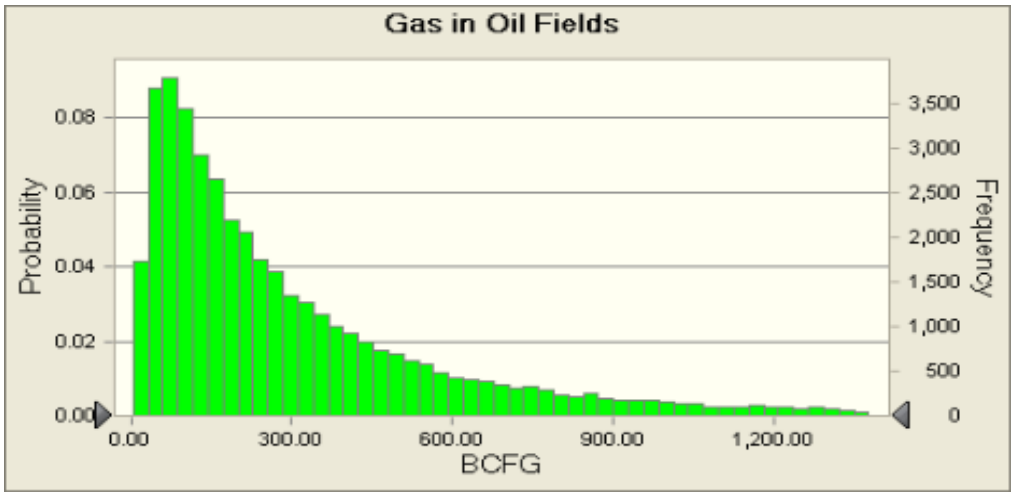
Statistics:	Forecast values
Trials	41,691
Mean	174.38
Median	131.06
Mode	---
Standard Deviation	124.28
Variance	15,444.75
Skewness	2.30
Kurtosis	10.59
Coefficient of Variability	0.7127
Minimum	53.73
Maximum	1,320.75
Range Width	1,267.01
Mean Standard Error	0.61
Filtered Values	8309

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

Percentiles:	MMBO
P100	53.73
P95	68.05
P90	74.12
P85	79.33
P80	84.58
P75	89.91
P70	95.85
P65	102.21
P60	110.04
P55	119.64
P50	131.05
P45	145.40
P40	160.31
P35	176.54
P30	194.50
P25	214.95
P20	241.96
P15	277.41
P10	328.72
P5	420.81
P0	1,320.75

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 3.76 to 5,952.81 (filtered)
Filter range is from 0.00 to Infinity
After 41,691 trials, the standard error of the mean is 1.83



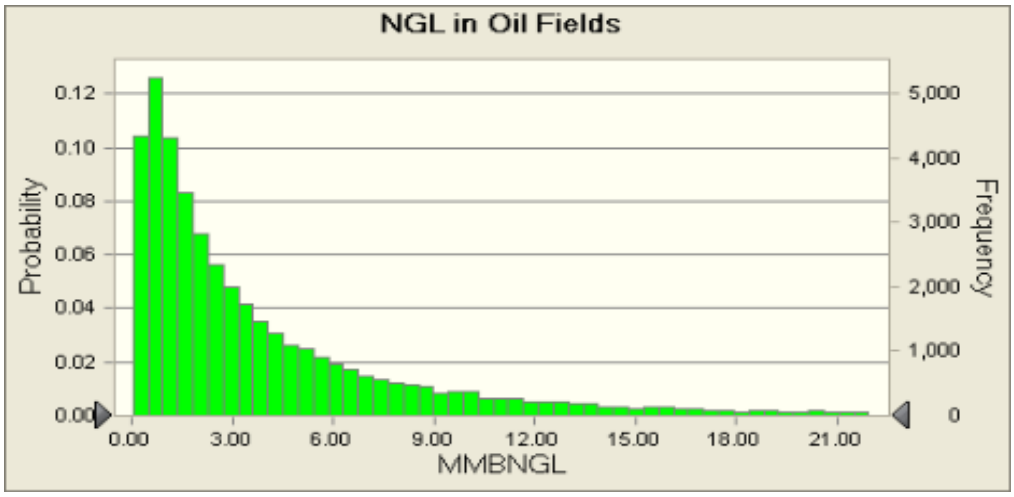
Statistics:	Forecast values
Trials	41,691
Mean	329.85
Median	205.71
Mode	---
Standard Deviation	374.10
Variance	139,951.57
Skewness	3.06
Kurtosis	18.73
Coefficient of Variability	1.13
Minimum	3.76
Maximum	5,952.81
Range Width	5,949.05
Mean Standard Error	1.83
Filtered Values	8309

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

Percentiles:	BCFG
P100	3.76
P95	34.86
P90	50.79
P85	65.57
P80	81.29
P75	97.66
P70	114.80
P65	133.71
P60	155.11
P55	177.94
P50	205.70
P45	235.39
P40	269.04
P35	311.10
P30	358.52
P25	418.27
P20	494.56
P15	596.01
P10	756.72
P5	1,050.09
P0	5,952.81

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 0.02 to 134.69 (filtered)
Filter range is from 0.00 to Infinity
After 41,691 trials, the standard error of the mean is 0.03



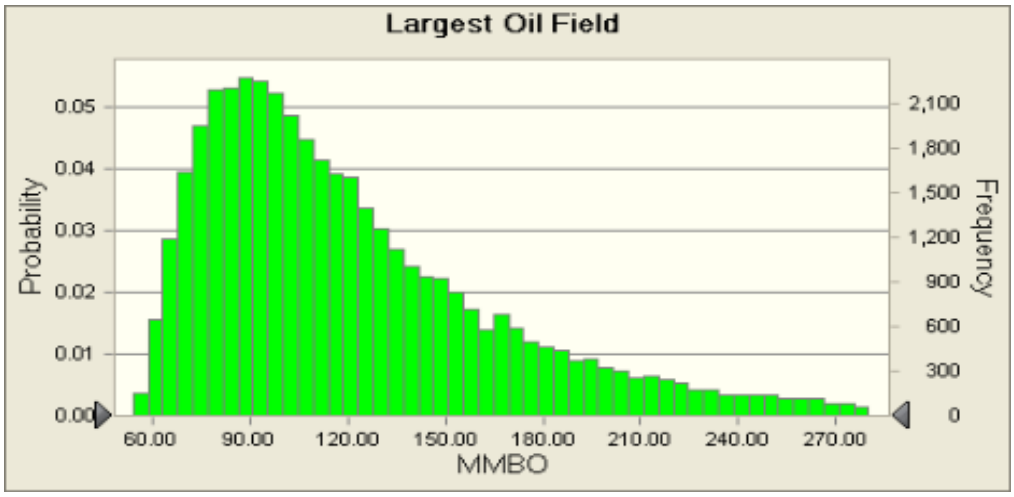
Statistics:	Forecast values
Trials	41,691
Mean	4.47
Median	2.37
Mode	---
Standard Deviation	6.25
Variance	39.02
Skewness	4.25
Kurtosis	35.22
Coefficient of Variability	1.40
Minimum	0.02
Maximum	134.69
Range Width	134.68
Mean Standard Error	0.03
Filtered Values	8309

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

Percentiles:	MMBNGL
P100	0.02
P95	0.29
P90	0.45
P85	0.62
P80	0.80
P75	0.99
P70	1.20
P65	1.45
P60	1.71
P55	2.01
P50	2.37
P45	2.78
P40	3.27
P35	3.85
P30	4.55
P25	5.44
P20	6.58
P15	8.22
P10	10.67
P5	15.57
P0	134.69

Forecast: Largest Oil Field

Summary:
Entire range is from 53.73 to 498.94 (filtered)
Filter range is from 0.00 to Infinity
After 41,691 trials, the standard error of the mean is 0.27



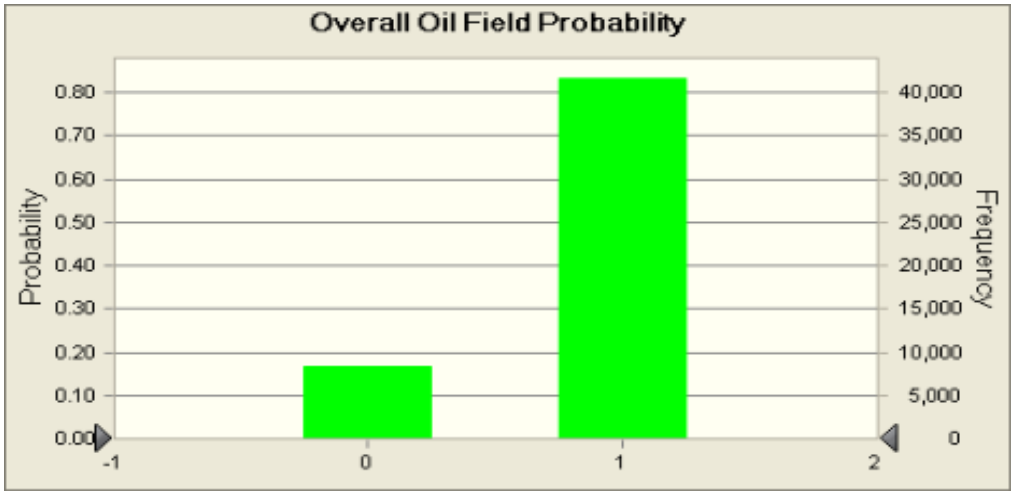
Statistics:	Forecast values
Trials	41,691
Mean	124.87
Median	109.92
Mode	---
Standard Deviation	55.45
Variance	3,075.09
Skewness	1.97
Kurtosis	8.69
Coefficient of Variability	0.4441
Minimum	53.73
Maximum	498.94
Range Width	445.21
Mean Standard Error	0.27
Filtered Values	8309

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	53.73
P95	67.91
P90	73.55
P85	78.20
P80	82.67
P75	87.04
P70	91.18
P65	95.46
P60	99.91
P55	104.66
P50	109.92
P45	115.53
P40	121.62
P35	128.26
P30	136.40
P25	146.25
P20	157.53
P15	172.94
P10	194.87
P5	232.10
P0	498.94

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



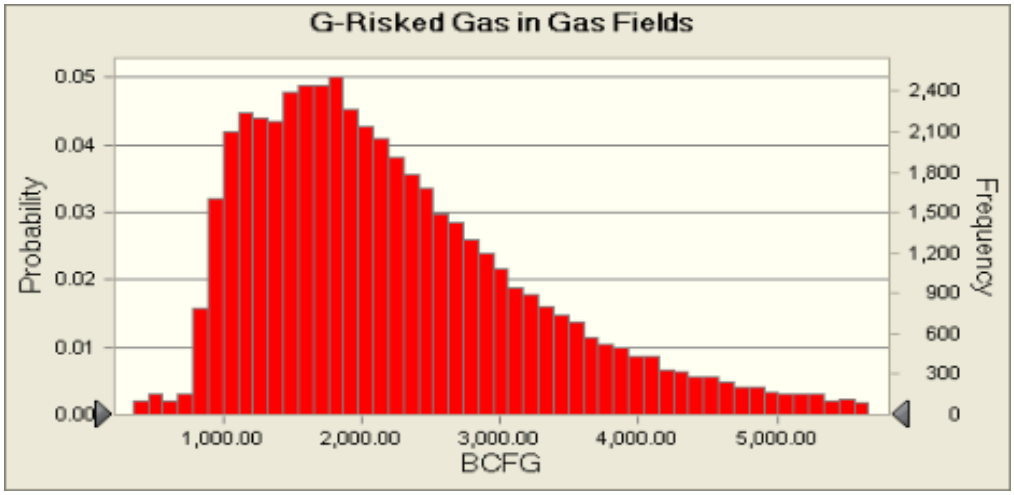
Statistics:	Forecast values	
Trials	50,000	
Mean	0.8338	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.37	
Variance	0.14	
Skewness	-1.79	
Kurtosis	4.22	
Coefficient of Variability	0.4464	
Minimum	0.00	
Maximum	1.00	
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	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 345.48 to 11,614.43
After 50,000 trials, the standard error of the mean is 5.35



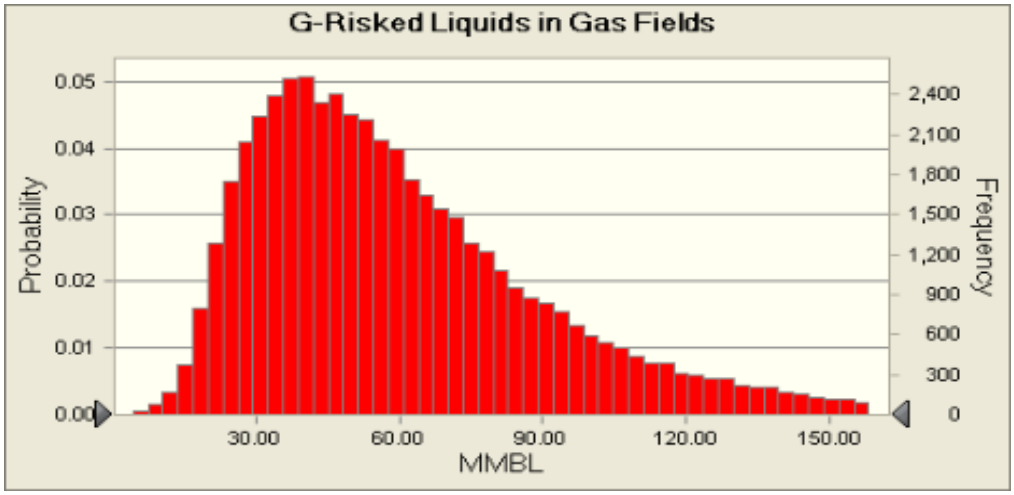
Statistics:	Forecast values
Trials	50,000
Mean	2,313.49
Median	2,038.76
Mode	---
Standard Deviation	1,195.63
Variance	1,429,539.94
Skewness	1.62
Kurtosis	7.12
Coefficient of Variability	0.5168
Minimum	345.48
Maximum	11,614.43
Range Width	11,268.94
Mean Standard Error	5.35

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

Percentiles:	BCFG
P100	345.48
P95	972.61
P90	1,104.68
P85	1,226.94
P80	1,347.93
P75	1,471.17
P70	1,582.05
P65	1,692.85
P60	1,802.15
P55	1,915.49
P50	2,038.73
P45	2,171.33
P40	2,312.71
P35	2,466.19
P30	2,643.46
P25	2,848.32
P20	3,094.46
P15	3,410.03
P10	3,851.35
P5	4,604.70
P0	11,614.43

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 4.06 to 338.88
After 50,000 trials, the standard error of the mean is 0.15



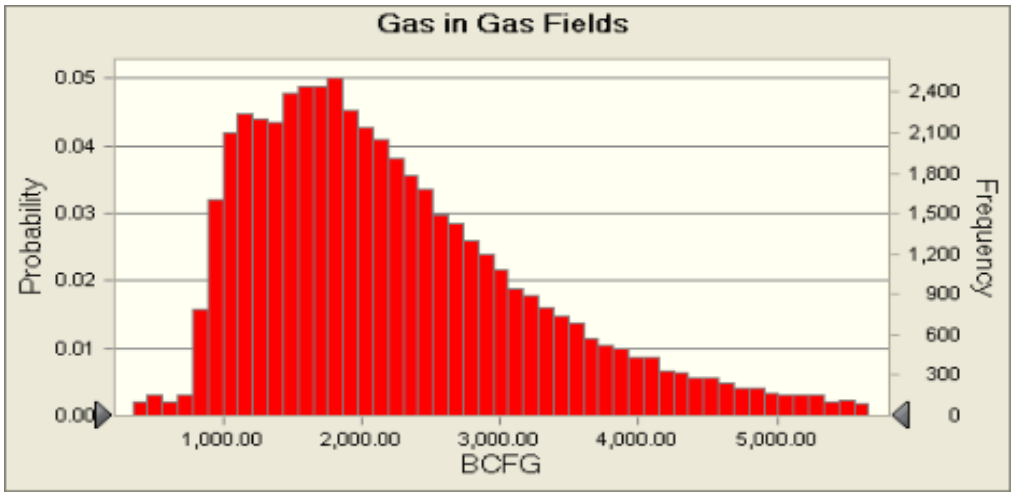
Statistics:	Forecast values
Trials	50,000
Mean	61.66
Median	53.76
Mode	---
Standard Deviation	34.51
Variance	1,190.89
Skewness	1.58
Kurtosis	6.84
Coefficient of Variability	0.5597
Minimum	4.06
Maximum	338.88
Range Width	334.82
Mean Standard Error	0.15

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

Percentiles:	MMBL
P100	4.06
P95	22.47
P90	26.94
P85	30.62
P80	33.99
P75	37.18
P70	40.30
P65	43.56
P60	46.79
P55	50.21
P50	53.76
P45	57.58
P40	61.62
P35	66.17
P30	71.31
P25	77.20
P20	84.23
P15	93.39
P10	106.29
P5	128.58
P0	338.88

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 345.48 to 11,614.43
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.35



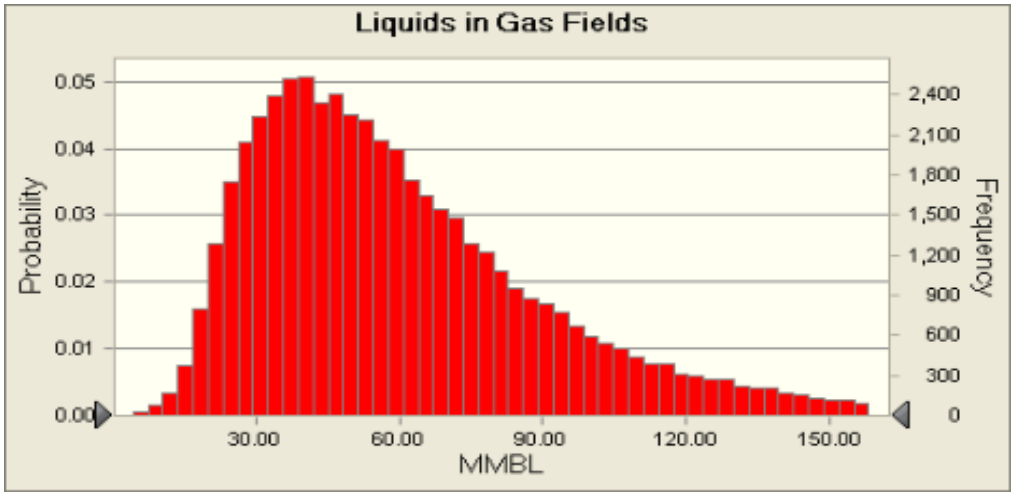
Statistics:	Forecast values
Trials	50,000
Mean	2,313.49
Median	2,038.76
Mode	---
Standard Deviation	1,195.63
Variance	1,429,539.94
Skewness	1.62
Kurtosis	7.12
Coefficient of Variability	0.5168
Minimum	345.48
Maximum	11,614.43
Range Width	11,268.94
Mean Standard Error	5.35

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

Percentiles:	BCFG
P100	345.48
P95	972.61
P90	1,104.68
P85	1,226.94
P80	1,347.93
P75	1,471.17
P70	1,582.05
P65	1,692.85
P60	1,802.15
P55	1,915.49
P50	2,038.73
P45	2,171.33
P40	2,312.71
P35	2,466.19
P30	2,643.46
P25	2,848.32
P20	3,094.46
P15	3,410.03
P10	3,851.35
P5	4,604.70
P0	11,614.43

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 4.06 to 338.88
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.15



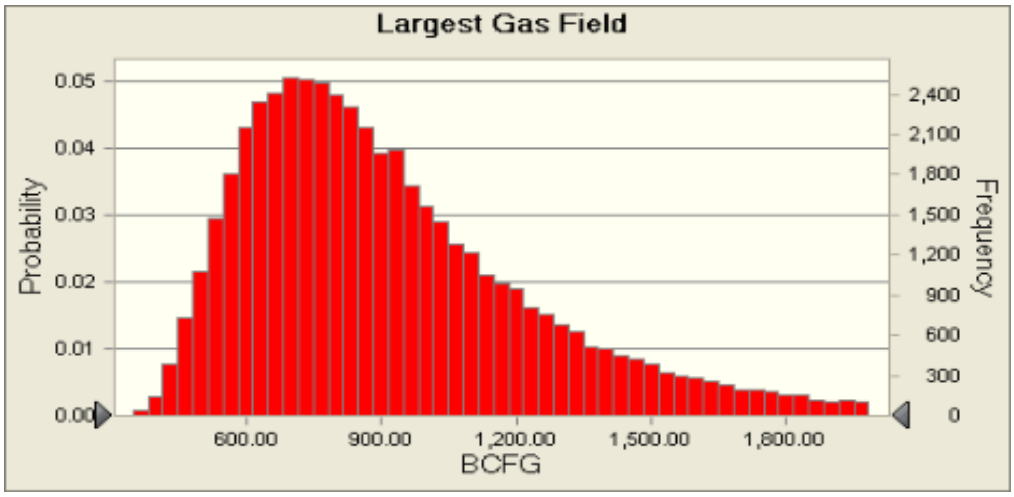
Statistics:	Forecast values
Trials	50,000
Mean	61.66
Median	53.76
Mode	---
Standard Deviation	34.51
Variance	1,190.89
Skewness	1.58
Kurtosis	6.84
Coefficient of Variability	0.5597
Minimum	4.06
Maximum	338.88
Range Width	334.82
Mean Standard Error	0.15

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

Percentiles:	MMBL
P100	4.06
P95	22.47
P90	26.94
P85	30.62
P80	33.99
P75	37.18
P70	40.30
P65	43.56
P60	46.79
P55	50.21
P50	53.76
P45	57.58
P40	61.62
P35	66.17
P30	71.31
P25	77.20
P20	84.23
P15	93.39
P10	106.29
P5	128.58
P0	338.88

Forecast: Largest Gas Field

Summary:
Entire range is from 345.48 to 2,999.12
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.67



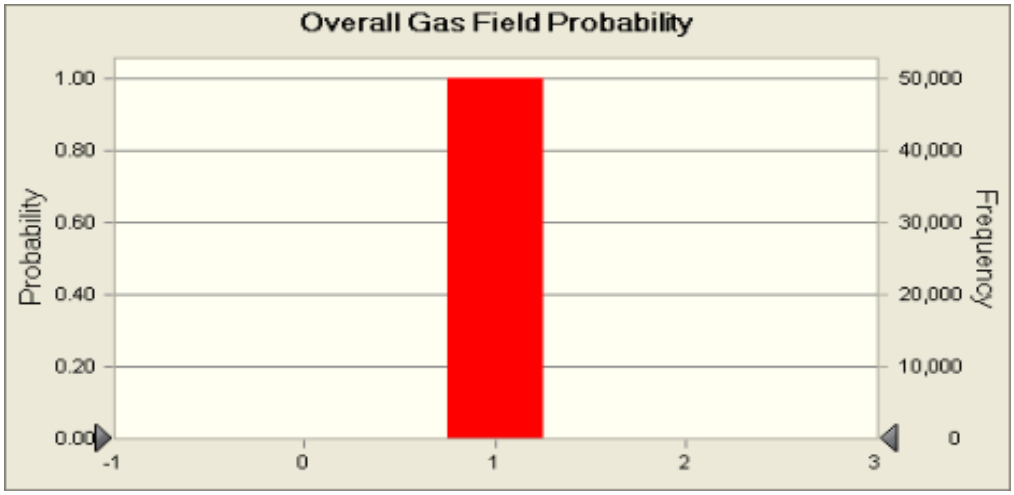
Statistics:	Forecast values
Trials	50,000
Mean	939.59
Median	851.32
Mode	---
Standard Deviation	373.64
Variance	139,610.20
Skewness	1.59
Kurtosis	6.48
Coefficient of Variability	0.3977
Minimum	345.48
Maximum	2,999.12
Range Width	2,653.64
Mean Standard Error	1.67

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	345.48
P95	516.42
P90	569.20
P85	608.77
P80	644.68
P75	679.70
P70	712.63
P65	746.04
P60	779.91
P55	814.67
P50	851.31
P45	890.87
P40	933.39
P35	980.11
P30	1,034.89
P25	1,099.40
P20	1,177.71
P15	1,277.00
P10	1,420.85
P5	1,672.51
P0	2,999.12

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

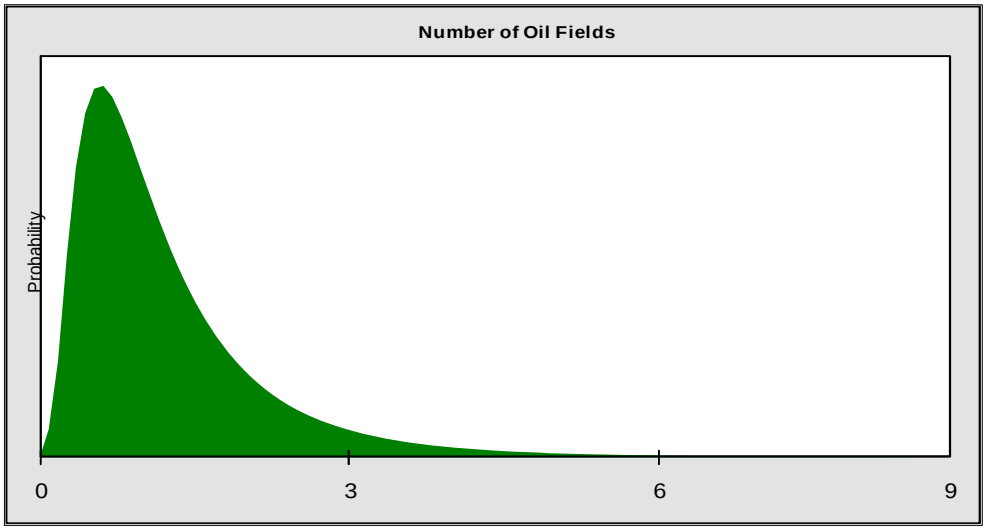
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	1.29
Standard Deviation	1.04

Selected range is from 0.00 to 9.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1.27	1.28
Median	1.00	1.00
Mode	---	---
Standard Deviation	0.99	0.99
Variance	0.98	0.99
Skewness	2.24	2.26
Kurtosis	10.51	10.70
Coefficient of Variability	0.7769	0.7780
Minimum	0.05	0.00
Maximum	8.96	9.00
Range Width	8.91	9.00
Mean Standard Error	0.00	---

Assumption: Number of Oil Fields (cont'd)

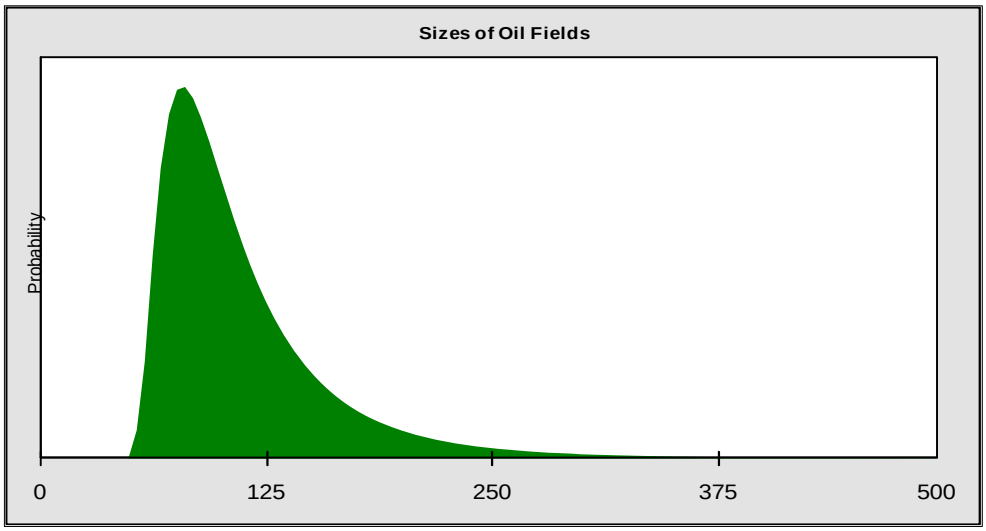
Percentiles:	Simulated values	Theoretical values
P100	0.05	0.00
P95	0.31	0.31
P90	0.40	0.40
P85	0.48	0.48
P80	0.55	0.55
P75	0.62	0.62
P70	0.69	0.69
P65	0.76	0.76
P60	0.83	0.83
P55	0.91	0.91
P50	1.00	1.00
P45	1.09	1.09
P40	1.19	1.20
P35	1.31	1.31
P30	1.44	1.45
P25	1.60	1.61
P20	1.81	1.82
P15	2.07	2.08
P10	2.47	2.48
P5	3.21	3.20
P0	8.96	9.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	114.38
Standard Deviation	52.23

Selected range is from 50.00 to 500.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	113.72	113.89
Median	99.72	99.96
Mode	---	---
Standard Deviation	49.45	49.70
Variance	2,445.02	2,470.21
Skewness	2.22	2.26
Kurtosis	10.36	10.70
Coefficient of Variability	0.4348	0.4364
Minimum	52.48	50.00
Maximum	498.94	500.00
Range Width	446.46	450.00
Mean Standard Error	0.22	---

Assumption: Sizes of Oil Fields (cont'd)

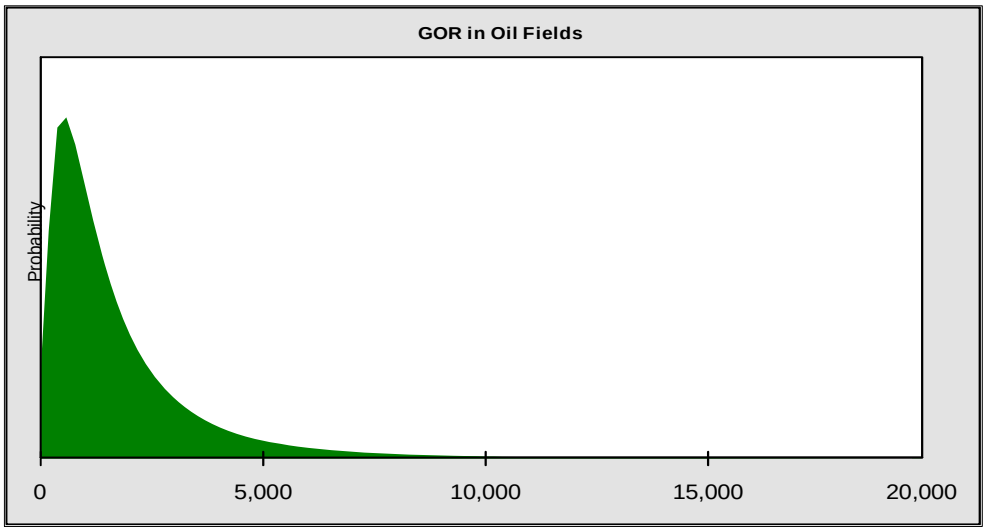
Percentiles:	Simulated values	Theoretical values
P100	52.48	50.00
P95	65.60	65.52
P90	70.11	70.09
P85	73.97	73.92
P80	77.48	77.47
P75	80.90	80.93
P70	84.34	84.42
P65	87.89	87.99
P60	91.56	91.73
P55	95.56	95.69
P50	99.72	99.96
P45	104.23	104.62
P40	109.36	109.80
P35	115.39	115.68
P30	122.02	122.49
P25	130.08	130.64
P20	140.54	140.78
P15	154.17	154.21
P10	174.53	173.92
P5	210.69	209.99
P0	498.94	500.00

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	1,893.83	1,897.99
Median	1,294.39	1,298.56
Mode	---	---
Standard Deviation	1,917.30	1,932.35
Variance	3,676,058.09	3,733,968.44
Skewness	2.97	3.00
Kurtosis	16.42	16.56
Coefficient of Variability	1.01	1.02
Minimum	41.02	0.00
Maximum	19,967.75	20,000.00
Range Width	19,926.73	20,000.00
Mean Standard Error	8.57	---

Assumption: GOR in Oil Fields (cont'd)

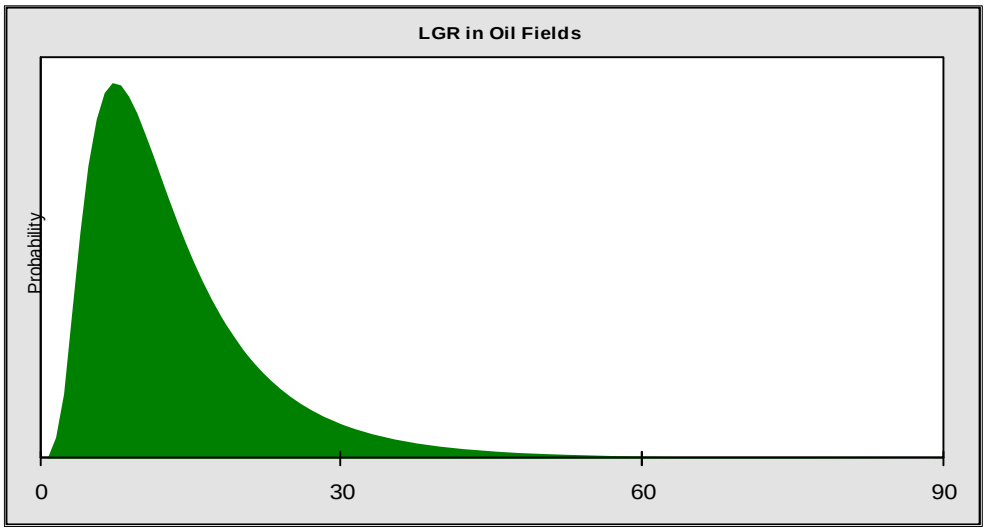
Percentiles:	Simulated values	Theoretical values
P100	41.02	0.00
P95	304.48	303.29
P90	418.83	418.21
P85	518.47	519.43
P80	617.56	617.08
P75	713.02	715.36
P70	813.97	816.87
P65	921.69	923.74
P60	1,034.93	1,038.05
P55	1,158.01	1,162.07
P50	1,294.39	1,298.56
P45	1,454.49	1,451.06
P40	1,629.99	1,624.33
P35	1,836.09	1,825.15
P30	2,070.54	2,063.62
P25	2,362.03	2,355.89
P20	2,724.22	2,730.06
P15	3,233.77	3,241.24
P10	4,017.17	4,020.80
P5	5,500.36	5,525.00
P0	19,967.75	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	13.62	13.50
Median	11.02	10.99
Mode	---	---
Standard Deviation	9.59	9.45
Variance	91.91	89.38
Skewness	2.00	2.02
Kurtosis	8.94	9.16
Coefficient of Variability	0.7038	0.7002
Minimum	0.74	0.00
Maximum	81.06	82.00
Range Width	80.33	82.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (cont'd)

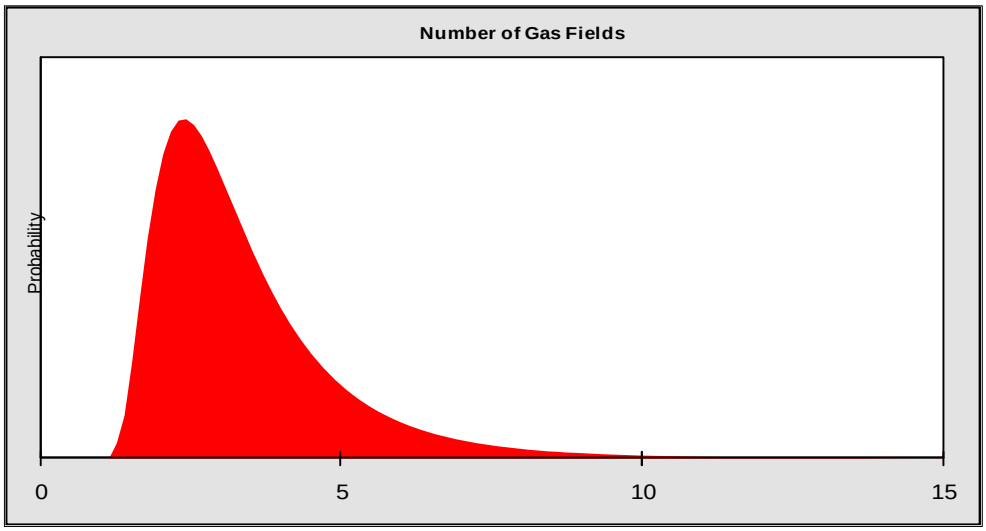
Percentiles:	Simulated values	Theoretical values
P100	0.74	0.00
P95	3.75	3.77
P90	4.76	4.78
P85	5.61	5.61
P80	6.39	6.36
P75	7.12	7.09
P70	7.84	7.82
P65	8.61	8.56
P60	9.39	9.32
P55	10.19	10.13
P50	11.02	10.99
P45	11.98	11.93
P40	13.02	12.96
P35	14.20	14.12
P30	15.60	15.45
P25	17.23	17.03
P20	19.22	18.98
P15	21.80	21.53
P10	25.60	25.22
P5	32.22	31.86
P0	81.06	82.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	3.40
Standard Deviation	1.60

Selected range is from 1.00 to 14.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3.38	3.39
Median	2.99	3.00
Mode	---	---
Standard Deviation	1.54	1.54
Variance	2.36	2.38
Skewness	1.87	1.85
Kurtosis	8.32	8.17
Coefficient of Variability	0.4548	0.4551
Minimum	1.08	1.00
Maximum	13.96	14.00
Range Width	12.88	13.00
Mean Standard Error	0.01	---

Assumption: Number of Gas Fields (cont'd)

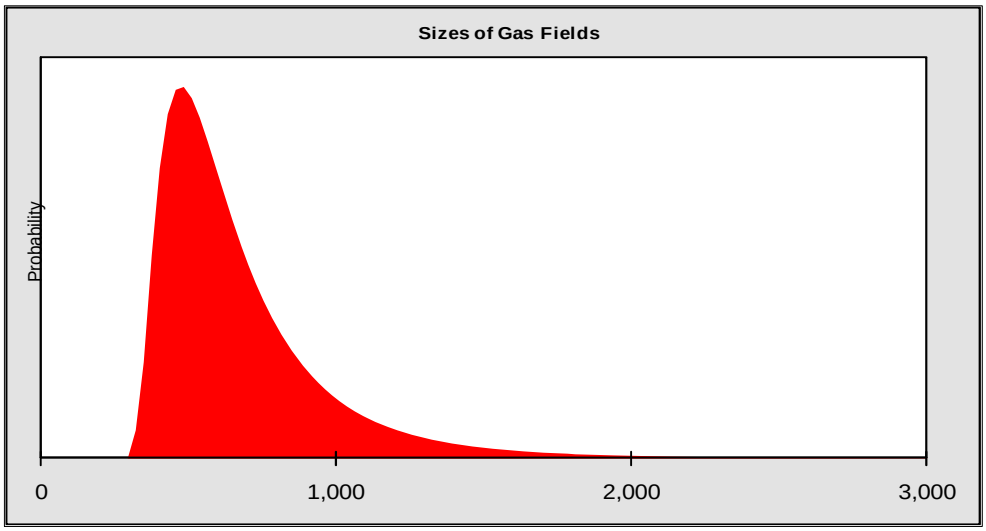
Percentiles:	Simulated values	Theoretical values
P100	1.08	1.00
P95	1.74	1.74
P90	1.91	1.92
P85	2.06	2.07
P80	2.19	2.20
P75	2.32	2.33
P70	2.45	2.45
P65	2.58	2.58
P60	2.71	2.71
P55	2.84	2.85
P50	2.99	3.00
P45	3.14	3.16
P40	3.32	3.33
P35	3.51	3.52
P30	3.73	3.74
P25	4.00	4.01
P20	4.32	4.32
P15	4.72	4.74
P10	5.30	5.33
P5	6.34	6.39
P0	13.96	14.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	686.29
Standard Deviation	313.36

Selected range is from 300.00 to 3,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	683.11	683.32
Median	601.13	599.73
Mode	---	---
Standard Deviation	297.19	298.21
Variance	88,322.75	88,927.43
Skewness	2.24	2.26
Kurtosis	10.61	10.70
Coefficient of Variability	0.4351	0.4364
Minimum	312.43	300.00
Maximum	2,999.12	3,000.00
Range Width	2,686.68	2,700.00
Mean Standard Error	1.33	---

Assumption: Sizes of Gas Fields (cont'd)

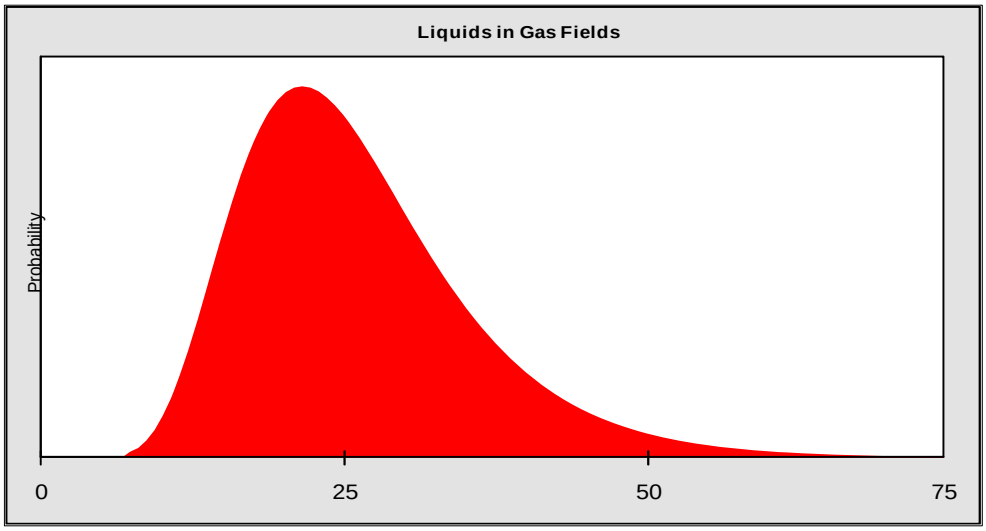
Percentiles:	Simulated values	Theoretical values
P100	312.43	300.00
P95	392.82	393.11
P90	420.15	420.55
P85	443.35	443.50
P80	464.15	464.81
P75	484.38	485.60
P70	505.69	506.50
P65	527.53	527.95
P60	550.01	550.36
P55	574.60	574.13
P50	601.12	599.73
P45	629.27	627.72
P40	659.84	658.82
P35	695.00	694.07
P30	735.58	734.95
P25	784.90	783.82
P20	845.03	844.69
P15	925.73	925.27
P10	1,040.77	1,043.54
P5	1,260.46	1,259.96
P0	2,999.12	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:

Mean	26.63
Standard Deviation	9.78

Selected range is from 0.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	26.71	26.57
Median	25.00	24.99
Mode	---	---
Standard Deviation	9.72	9.61
Variance	94.50	92.39
Skewness	1.04	1.01
Kurtosis	4.53	4.46
Coefficient of Variability	0.3639	0.3617
Minimum	5.44	0.00
Maximum	74.98	75.00
Range Width	69.55	75.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	5.44	0.00
P95	14.00	13.93
P90	15.94	15.85
P85	17.39	17.29
P80	18.67	18.53
P75	19.77	19.66
P70	20.81	20.74
P65	21.86	21.79
P60	22.89	22.84
P55	23.95	23.90
P50	25.00	24.99
P45	26.14	26.13
P40	27.41	27.34
P35	28.76	28.65
P30	30.20	30.10
P25	31.90	31.75
P20	33.92	33.69
P15	36.36	36.09
P10	39.71	39.36
P5	45.05	44.72
P0	74.98	75.00

End of Assumptions

Simulation started on 3/20/2008 at 16:32:35
Simulation stopped on 3/20/2008 at 16:41:07