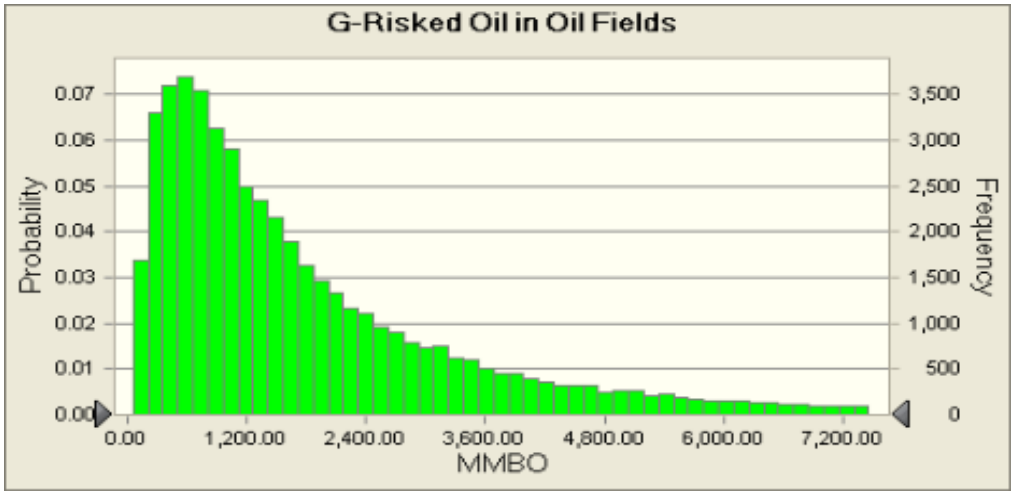
10500102
South Barents Basin and Ludlov Saddle
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 50.29 to 24,014.66
After 50,000 trials, the standard error of the mean is 8.82



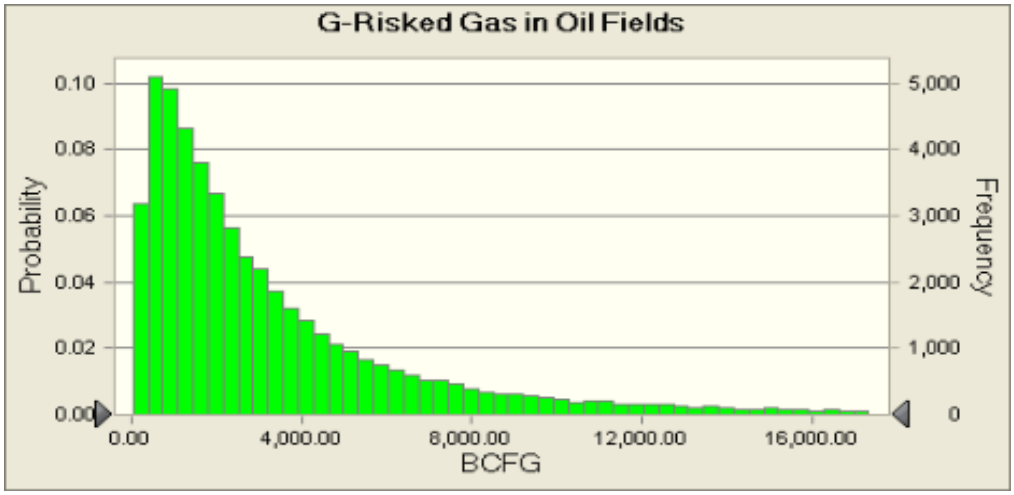
Statistics:	Forecast values
Trials	50,000
Mean	1,938.93
Median	1,299.93
Mode	---
Standard Deviation	1,972.93
Variance	3,892,471.09
Skewness	2.47
Kurtosis	11.76
Coefficient of Variability	1.02
Minimum	50.29
Maximum	24,014.66
Range Width	23,964.37
Mean Standard Error	8.82

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

Percentiles:	MMBO
P100	50.29
P95	240.88
P90	353.12
P85	458.60
P80	560.43
P75	663.75
P70	768.91
P65	885.29
P60	1,011.45
P55	1,146.54
P50	1,299.83
P45	1,465.89
P40	1,651.19
P35	1,877.65
P30	2,148.99
P25	2,482.55
P20	2,911.39
P15	3,465.04
P10	4,316.28
P5	5,901.35
P0	24,014.66

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 7.52 to 134,669.93
After 50,000 trials, the standard error of the mean is 21.85



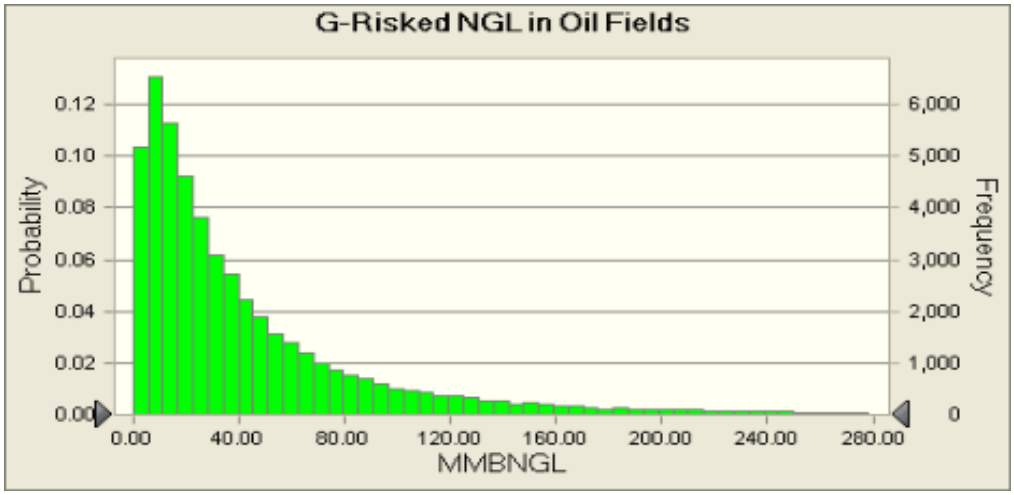
Statistics:	Forecast values
Trials	50,000
Mean	3,669.27
Median	2,175.28
Mode	---
Standard Deviation	4,885.28
Variance	23,865,937.88
Skewness	5.14
Kurtosis	56.77
Coefficient of Variability	1.33
Minimum	7.52
Maximum	134,669.93
Range Width	134,662.42
Mean Standard Error	21.85

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

Percentiles:	BCFG
P100	7.52
P95	312.00
P90	487.80
P85	662.90
P80	835.67
P75	1,014.83
P70	1,209.29
P65	1,422.12
P60	1,652.19
P55	1,901.39
P50	2,175.18
P45	2,489.59
P40	2,864.94
P35	3,281.67
P30	3,782.41
P25	4,421.26
P20	5,255.27
P15	6,424.93
P10	8,248.83
P5	11,899.93
P0	134,669.93

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.04 to 4,647.81
After 50,000 trials, the standard error of the mean is 0.37



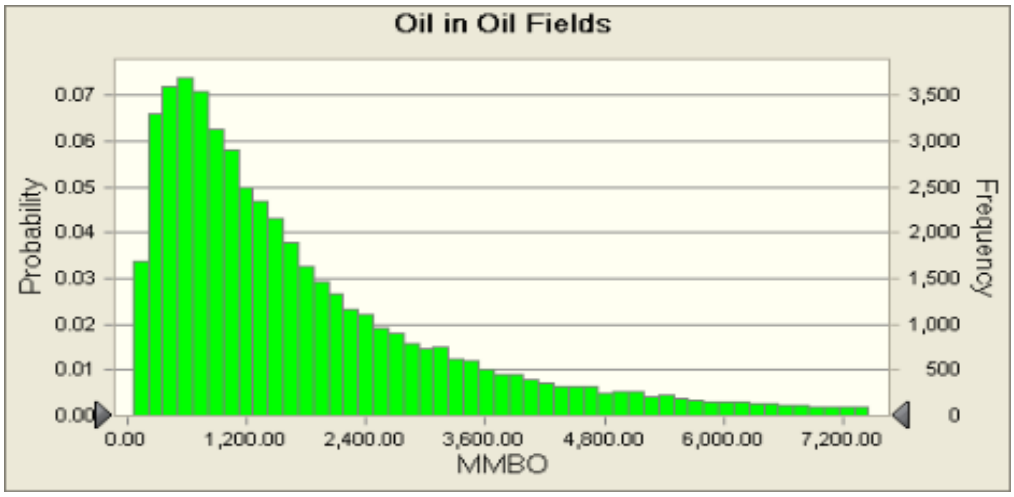
Statistics:	Forecast values
Trials	50,000
Mean	49.61
Median	27.09
Mode	---
Standard Deviation	81.73
Variance	6,679.66
Skewness	11.60
Kurtosis	359.53
Coefficient of Variability	1.65
Minimum	0.04
Maximum	4,647.81
Range Width	4,647.77
Mean Standard Error	0.37

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

Percentiles:	MMBNGL
P100	0.04
P95	3.39
P90	5.56
P85	7.71
P80	9.84
P75	12.12
P70	14.54
P65	17.21
P60	20.12
P55	23.51
P50	27.09
P45	31.47
P40	36.31
P35	42.01
P30	48.89
P25	57.64
P20	68.97
P15	85.32
P10	111.19
P5	162.51
P0	4,647.81

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 50.29 to 24,014.66
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 8.82



Statistics:	Forecast values
Trials	50,000
Mean	1,938.93
Median	1,299.93
Mode	---
Standard Deviation	1,972.93
Variance	3,892,471.09
Skewness	2.47
Kurtosis	11.76
Coefficient of Variability	1.02
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Range Width	23,964.37
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Forecast: Conditional Oil in Oil Fields (cont'd)

Percentiles:	MMBO
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P25	2,482.55
P20	2,911.39
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P10	4,316.28
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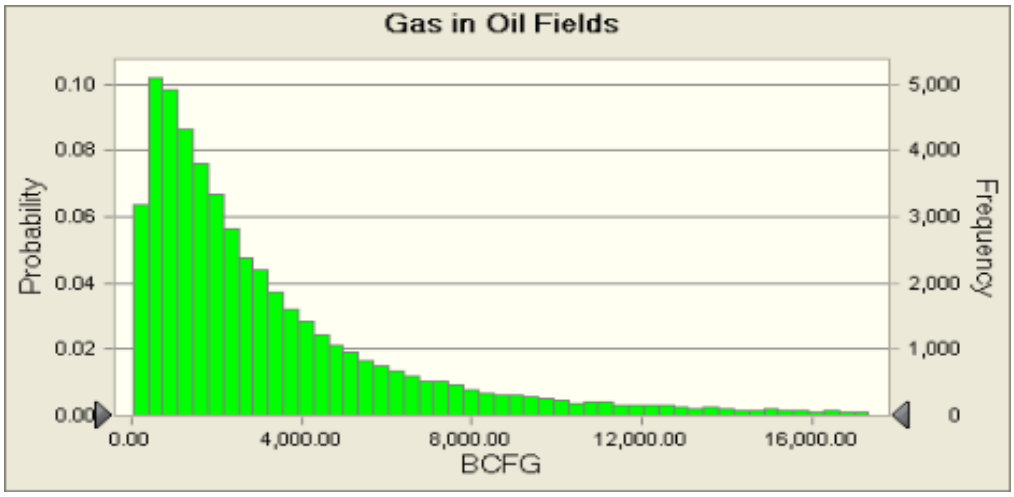
Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 7.52 to 134,669.93
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 21.85



Statistics:	Forecast values
Trials	50,000
Mean	3,669.27
Median	2,175.28
Mode	---
Standard Deviation	4,885.28
Variance	23,865,937.88
Skewness	5.14
Kurtosis	56.77
Coefficient of Variability	1.33
Minimum	7.52
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Range Width	134,662.42
Mean Standard Error	21.85

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

Percentiles:	BCFG
P100	7.52
P95	312.00
P90	487.80
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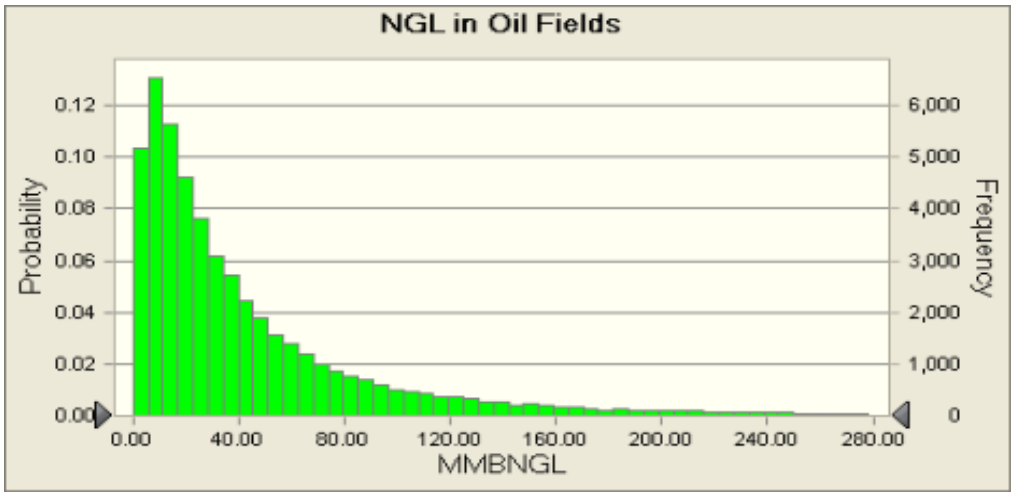
P70	1,209.29
P65	1,422.12
P60	1,652.19
P55	1,901.39
P50	2,175.18
P45	2,489.59
P40	2,864.94
P35	3,281.67
P30	3,782.41
P25	4,421.26
P20	5,255.27
P15	6,424.93
P10	8,248.83
P5	11,899.93
P0	134,669.93

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 0.04 to 4,647.81
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.37



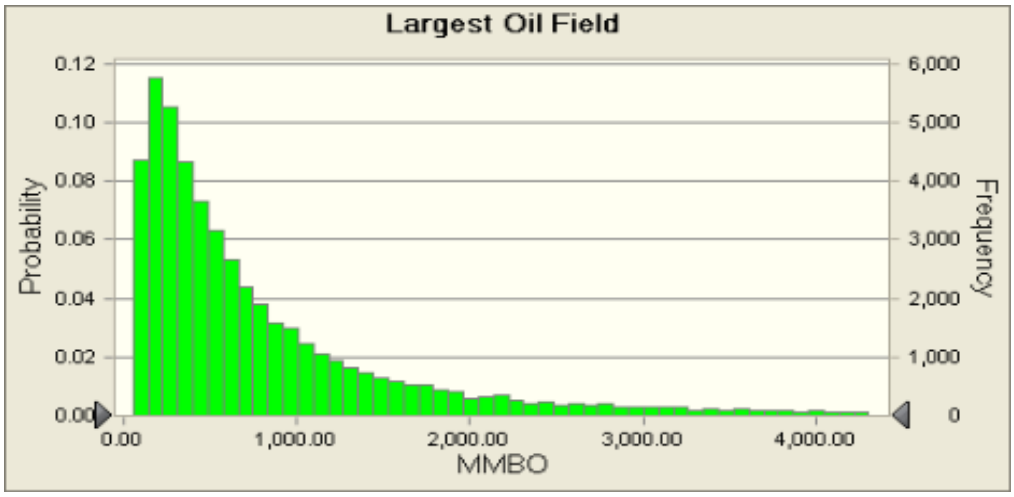
Statistics:	Forecast values
Trials	50,000
Mean	49.61
Median	27.09
Mode	---
Standard Deviation	81.73
Variance	6,679.66
Skewness	11.60
Kurtosis	359.53
Coefficient of Variability	1.65
Minimum	0.04
Maximum	4,647.81
Range Width	4,647.77
Mean Standard Error	0.37

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

Percentiles:	MMBNGL
P100	0.04
P95	3.39
P90	5.56
P85	7.71
P80	9.84
P75	12.12
P70	14.54
P65	17.21
P60	20.12
P55	23.51
P50	27.09
P45	31.47
P40	36.31
P35	42.01
P30	48.89
P25	57.64
P20	68.97
P15	85.32
P10	111.19
P5	162.51
P0	4,647.81

Forecast: Largest Oil Field

Summary:
Entire range is from 50.29 to 9,977.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.38



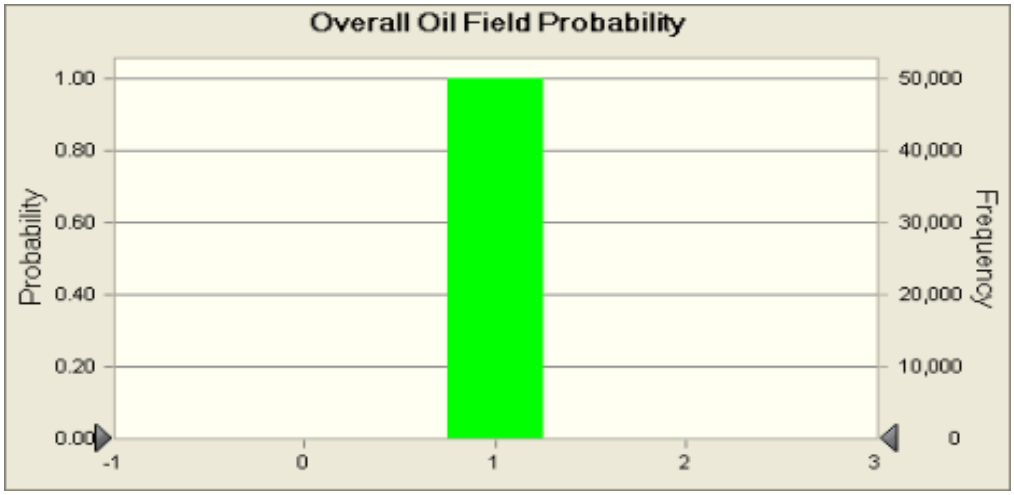
Statistics:	Forecast values
Trials	50,000
Mean	936.95
Median	527.36
Mode	---
Standard Deviation	1,203.91
Variance	1,449,388.86
Skewness	3.26
Kurtosis	16.70
Coefficient of Variability	1.28
Minimum	50.29
Maximum	9,977.28
Range Width	9,926.99
Mean Standard Error	5.38

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	50.29
P95	107.90
P90	146.40
P85	183.93
P80	222.33
P75	262.63
P70	303.27
P65	352.01
P60	403.38
P55	461.21
P50	527.36
P45	600.83
P40	688.34
P35	792.82
P30	924.35
P25	1,082.06
P20	1,304.23
P15	1,626.31
P10	2,146.60
P5	3,235.23
P0	9,977.28

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



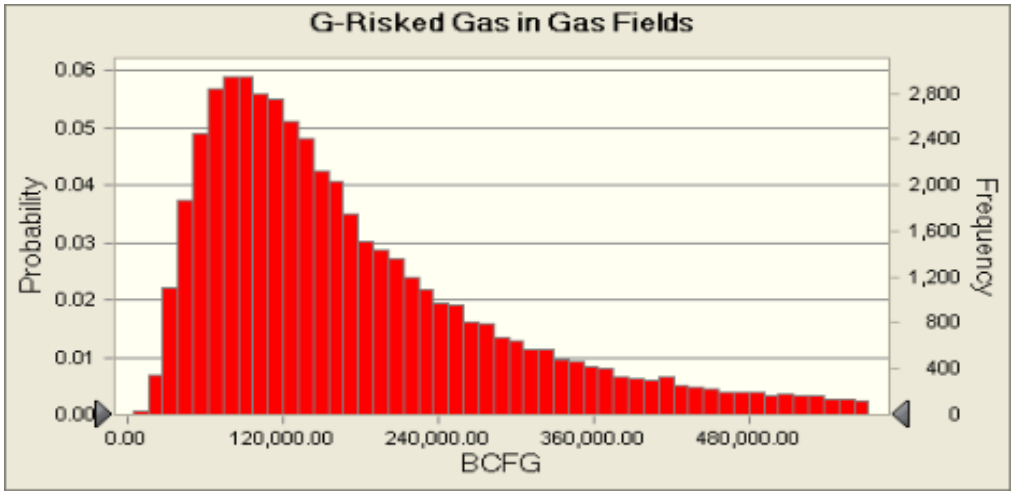
Statistics:	Forecast values	
Trials	50,000	
Mean	1.0000	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	1.00	
Mode	1.00	
Standard Deviation	0.00	
Variance	0.00	
Skewness	---	
Kurtosis	---	
Coefficient of Variability	0.00	
Minimum	1.00	
Maximum	1.00	
Range 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 3,140.99 to 1,428,785.05
After 50,000 trials, the standard error of the mean is 620.21



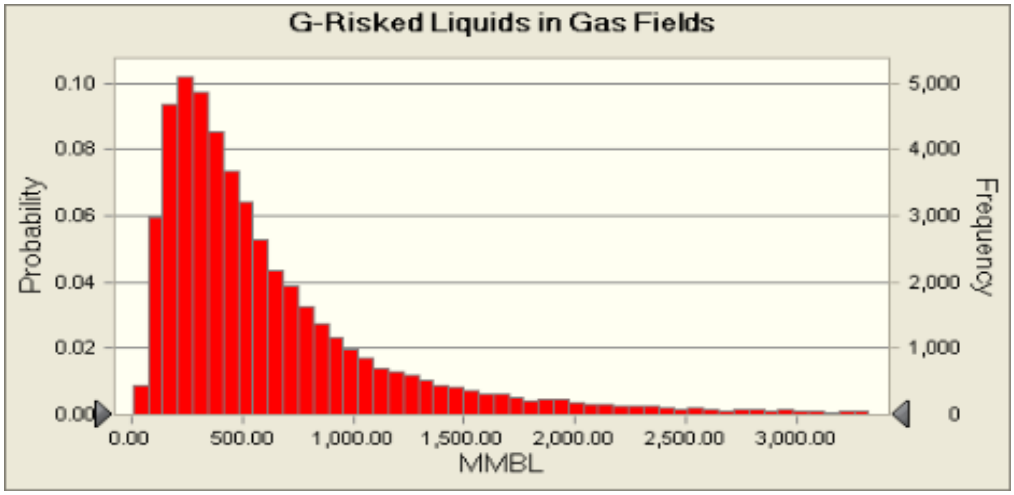
Statistics:	Forecast values
Trials	50,000
Mean	183,688.61
Median	142,293.13
Mode	---
Standard Deviation	138,682.96
Variance	19,232,962,591.72
Skewness	1.86
Kurtosis	7.78
Coefficient of Variability	0.7550
Minimum	3,140.99
Maximum	1,428,785.05
Range Width	1,425,644.06
Mean Standard Error	620.21

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

Percentiles:	BCFG
P100	3,140.99
P95	44,854.12
P90	57,627.25
P85	68,347.75
P80	78,081.58
P75	88,086.07
P70	97,906.09
P65	108,350.68
P60	118,948.40
P55	130,263.74
P50	142,292.99
P45	155,969.96
P40	171,130.51
P35	189,257.59
P30	210,059.84
P25	235,063.67
P20	266,040.65
P15	307,840.35
P10	367,460.82
P5	472,506.55
P0	1,428,785.05

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 6.05 to 24,081.01
After 50,000 trials, the standard error of the mean is 4.17



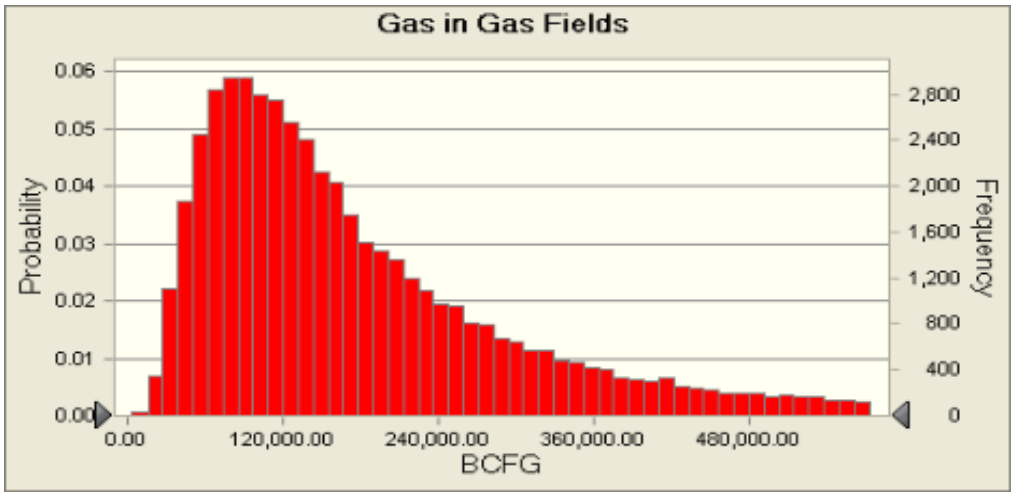
Statistics:	Forecast values
Trials	50,000
Mean	713.92
Median	459.91
Mode	---
Standard Deviation	932.07
Variance	868,751.38
Skewness	7.17
Kurtosis	102.56
Coefficient of Variability	1.31
Minimum	6.05
Maximum	24,081.01
Range Width	24,074.96
Mean Standard Error	4.17

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

Percentiles:	MMBL
P100	6.05
P95	126.37
P90	166.34
P85	201.29
P80	233.94
P75	266.94
P70	301.37
P65	335.79
P60	373.59
P55	414.98
P50	459.89
P45	510.44
P40	565.94
P35	633.25
P30	713.29
P25	813.09
P20	943.45
P15	1,136.32
P10	1,444.71
P5	2,080.48
P0	24,081.01

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 3,140.99 to 1,428,785.05
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 620.21



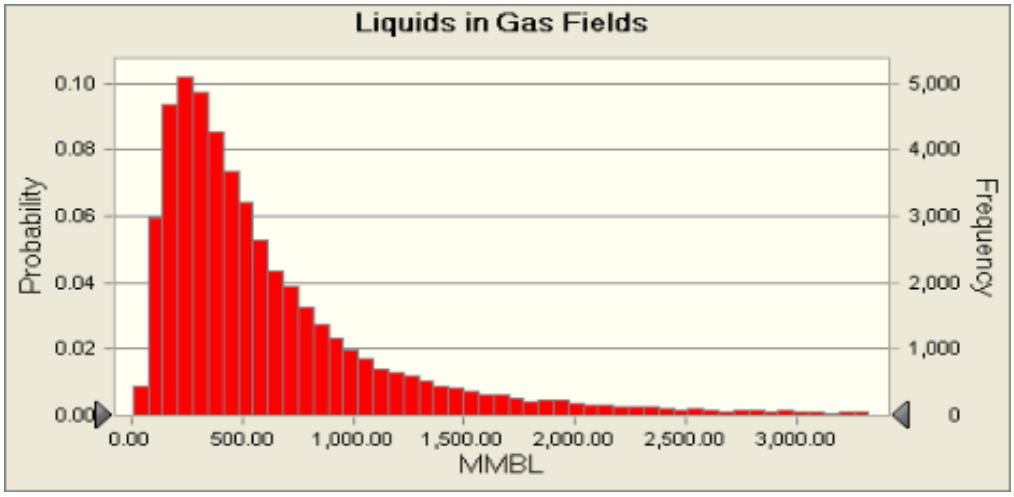
Statistics:	Forecast values
Trials	50,000
Mean	183,688.61
Median	142,293.13
Mode	---
Standard Deviation	138,682.96
Variance	19,232,962,591.72
Skewness	1.86
Kurtosis	7.78
Coefficient of Variability	0.7550
Minimum	3,140.99
Maximum	1,428,785.05
Range Width	1,425,644.06
Mean Standard Error	620.21

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

Percentiles:	BCFG
P100	3,140.99
P95	44,854.12
P90	57,627.25
P85	68,347.75
P80	78,081.58
P75	88,086.07
P70	97,906.09
P65	108,350.68
P60	118,948.40
P55	130,263.74
P50	142,292.99
P45	155,969.96
P40	171,130.51
P35	189,257.59
P30	210,059.84
P25	235,063.67
P20	266,040.65
P15	307,840.35
P10	367,460.82
P5	472,506.55
P0	1,428,785.05

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 6.05 to 24,081.01
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.17



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Mean	713.92
Median	459.91
Mode	---
Standard Deviation	932.07
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Coefficient of Variability	1.31
Minimum	6.05
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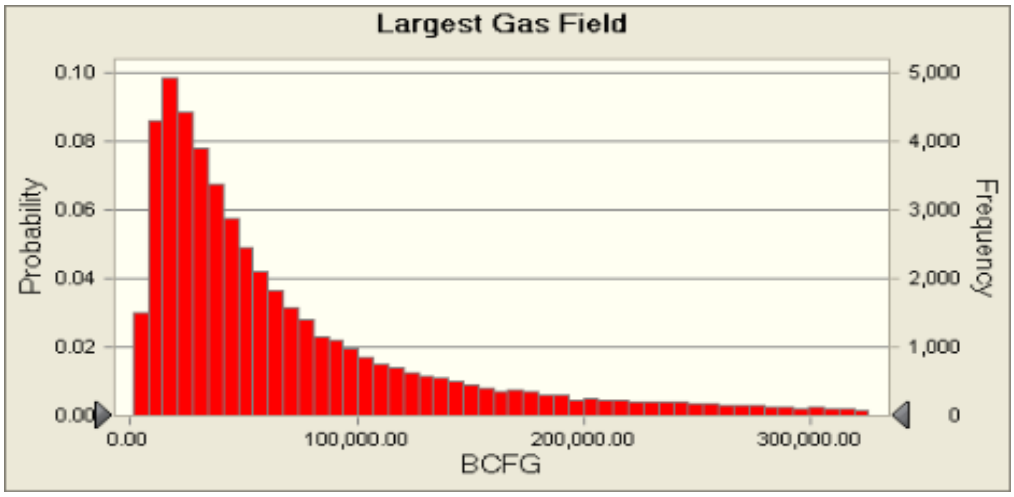
Range Width	24,074.96
Mean Standard Error	4.17

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

Percentiles:	MMBL
P100	6.05
P95	126.37
P90	166.34
P85	201.29
P80	233.94
P75	266.94
P70	301.37
P65	335.79
P60	373.59
P55	414.98
P50	459.89
P45	510.44
P40	565.94
P35	633.25
P30	713.29
P25	813.09
P20	943.45
P15	1,136.32
P10	1,444.71
P5	2,080.48
P0	24,081.01

Forecast: Largest Gas Field

Summary:
Entire range is from 1,004.54 to 499,935.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 393.22



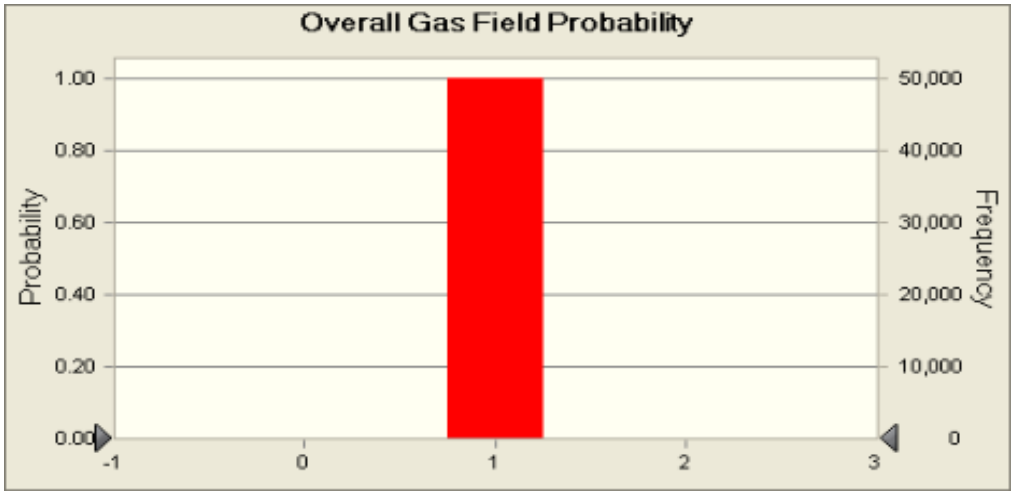
Statistics:	Forecast values
Trials	50,000
Mean	79,307.24
Median	46,514.88
Mode	---
Standard Deviation	87,925.57
Variance	7,730,905,121.51
Skewness	2.19
Kurtosis	8.05
Coefficient of Variability	1.11
Minimum	1,004.54
Maximum	499,935.07
Range Width	498,930.52
Mean Standard Error	393.22

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	1,004.54
P95	9,519.03
P90	13,192.47
P85	16,532.06
P80	19,877.05
P75	23,371.64
P70	27,221.66
P65	31,408.79
P60	35,857.64
P55	40,901.95
P50	46,513.36
P45	53,268.75
P40	61,130.28
P35	70,581.70
P30	82,356.11
P25	97,747.97
P20	118,270.29
P15	147,142.05
P10	192,453.77
P5	277,247.62
P0	499,935.07

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

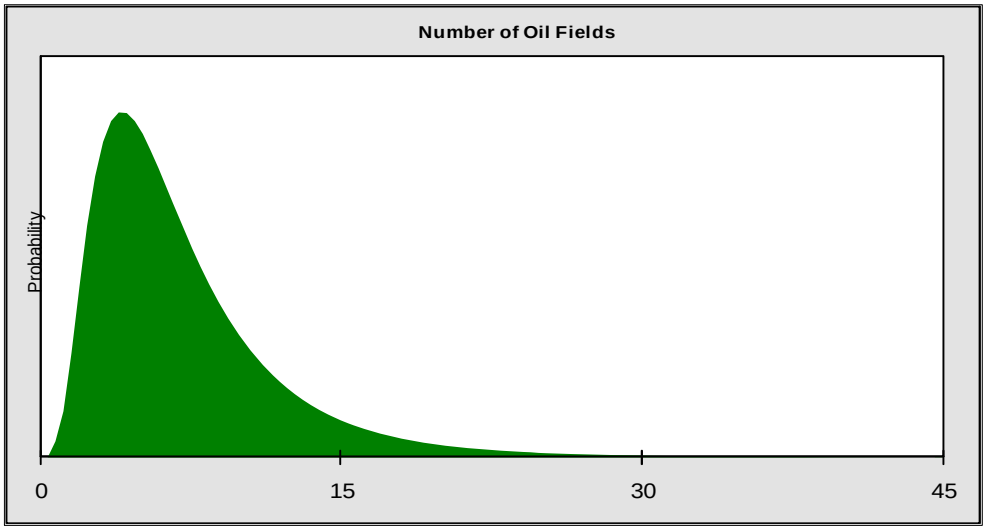
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	7.24
Standard Deviation	4.90

Selected range is from 0.00 to 40.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	7.22	7.20
Median	6.01	6.00
Mode	---	---
Standard Deviation	4.76	4.72
Variance	22.61	22.30
Skewness	1.89	1.88
Kurtosis	8.43	8.35
Coefficient of Variability	0.6582	0.6556
Minimum	0.57	0.00
Maximum	39.58	40.00
Range Width	39.01	40.00
Mean Standard Error	0.02	---

Assumption: Number of Oil Fields (cont'd)

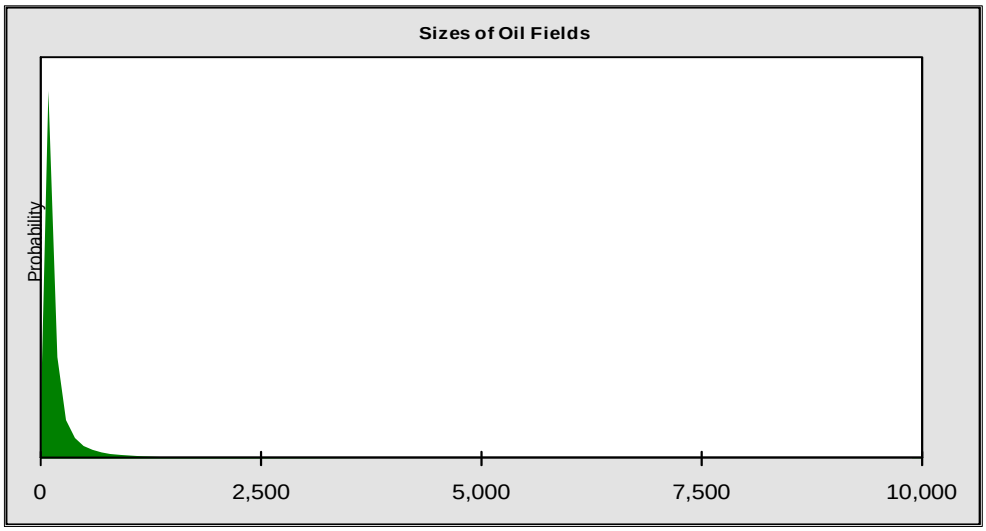
Percentiles:	Simulated values	Theoretical values
P100	0.57	0.00
P95	2.18	2.18
P90	2.72	2.73
P85	3.17	3.17
P80	3.57	3.58
P75	3.97	3.96
P70	4.35	4.35
P65	4.74	4.73
P60	5.13	5.13
P55	5.56	5.55
P50	6.01	6.00
P45	6.48	6.48
P40	7.03	7.00
P35	7.61	7.59
P30	8.29	8.27
P25	9.08	9.06
P20	10.08	10.04
P15	11.34	11.31
P10	13.20	13.14
P5	16.48	16.38
P0	39.58	40.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	285.63
Standard Deviation	894.87

Selected range is from 50.00 to 10,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	266.56	269.43
Median	109.37	109.88
Mode	---	---
Standard Deviation	542.13	553.65
Variance	293,908.71	306,531.23
Skewness	7.31	7.40
Kurtosis	79.86	80.37
Coefficient of Variability	2.03	2.05
Minimum	50.05	50.00
Maximum	9,977.28	10,000.00
Range Width	9,927.23	9,950.00
Mean Standard Error	2.42	---

Assumption: Sizes of Oil Fields (cont'd)

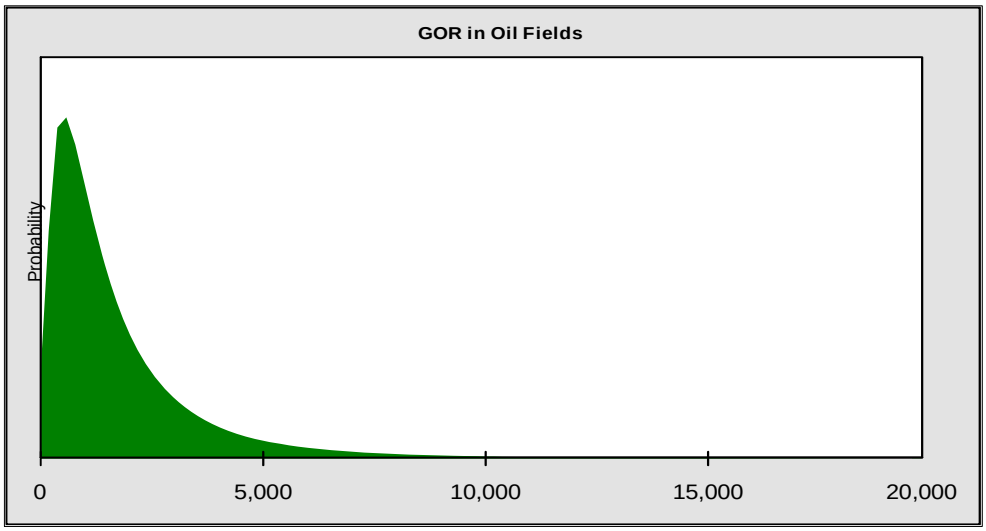
Percentiles:	Simulated values	Theoretical values
P100	50.05	50.00
P95	53.94	53.95
P90	57.22	57.20
P85	60.87	60.79
P80	64.96	64.90
P75	69.73	69.64
P70	75.07	75.17
P65	81.48	81.67
P60	89.05	89.39
P55	98.41	98.65
P50	109.36	109.88
P45	123.41	123.69
P40	141.18	141.00
P35	162.33	163.16
P30	192.13	192.36
P25	233.32	232.38
P20	290.93	290.25
P15	381.99	381.17
P10	545.35	545.53
P5	942.40	947.73
P0	9,977.28	10,000.00

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	1,900.60	1,897.99
Median	1,290.53	1,298.56
Mode	---	---
Standard Deviation	1,942.03	1,932.35
Variance	3,771,477.18	3,733,968.44
Skewness	2.99	3.00
Kurtosis	16.45	16.56
Coefficient of Variability	1.02	1.02
Minimum	30.61	0.00
Maximum	19,958.04	20,000.00
Range Width	19,927.43	20,000.00
Mean Standard Error	8.69	---

Assumption: GOR in Oil Fields (cont'd)

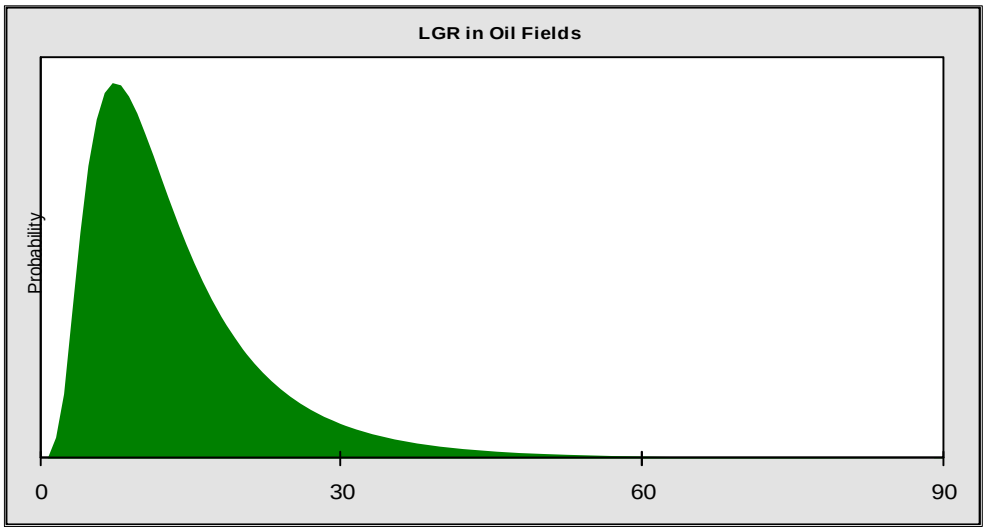
Percentiles:	Simulated values	Theoretical values
P100	30.61	0.00
P95	301.67	303.29
P90	410.56	418.21
P85	510.90	519.43
P80	607.90	617.08
P75	707.48	715.36
P70	810.82	816.87
P65	915.19	923.74
P60	1,033.34	1,038.05
P55	1,156.59	1,162.07
P50	1,290.52	1,298.56
P45	1,447.32	1,451.06
P40	1,624.01	1,624.33
P35	1,829.68	1,825.15
P30	2,072.08	2,063.62
P25	2,373.90	2,355.89
P20	2,746.25	2,730.06
P15	3,267.93	3,241.24
P10	4,043.24	4,020.80
P5	5,530.00	5,525.00
P0	19,958.04	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	13.48	13.50
Median	11.00	10.99
Mode	---	---
Standard Deviation	9.39	9.45
Variance	88.16	89.38
Skewness	2.01	2.02
Kurtosis	9.20	9.16
Coefficient of Variability	0.6965	0.7002
Minimum	0.88	0.00
Maximum	81.12	82.00
Range Width	80.24	82.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (cont'd)

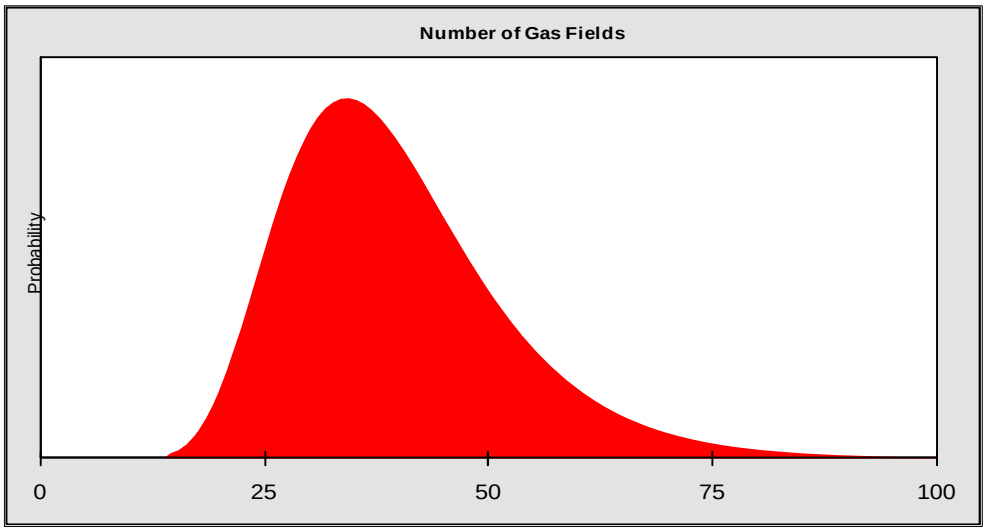
Percentiles:	Simulated values	Theoretical values
P100	0.88	0.00
P95	3.78	3.77
P90	4.79	4.78
P85	5.58	5.61
P80	6.35	6.36
P75	7.06	7.09
P70	7.82	7.82
P65	8.57	8.56
P60	9.33	9.32
P55	10.14	10.13
P50	11.00	10.99
P45	11.93	11.93
P40	12.98	12.96
P35	14.15	14.12
P30	15.45	15.45
P25	16.99	17.03
P20	19.03	18.98
P15	21.56	21.53
P10	25.18	25.22
P5	31.64	31.86
P0	81.12	82.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	39.96
Standard Deviation	12.53

Selected range is from 3.00 to 100.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	39.90	39.89
Median	37.97	37.99
Mode	---	---
Standard Deviation	12.37	12.34
Variance	153.10	152.22
Skewness	0.9217	0.9317
Kurtosis	4.15	4.22
Coefficient of Variability	0.3101	0.3093
Minimum	11.26	3.00
Maximum	99.90	100.00
Range Width	88.64	97.00
Mean Standard Error	0.06	---

Assumption: Number of Gas Fields (cont'd)

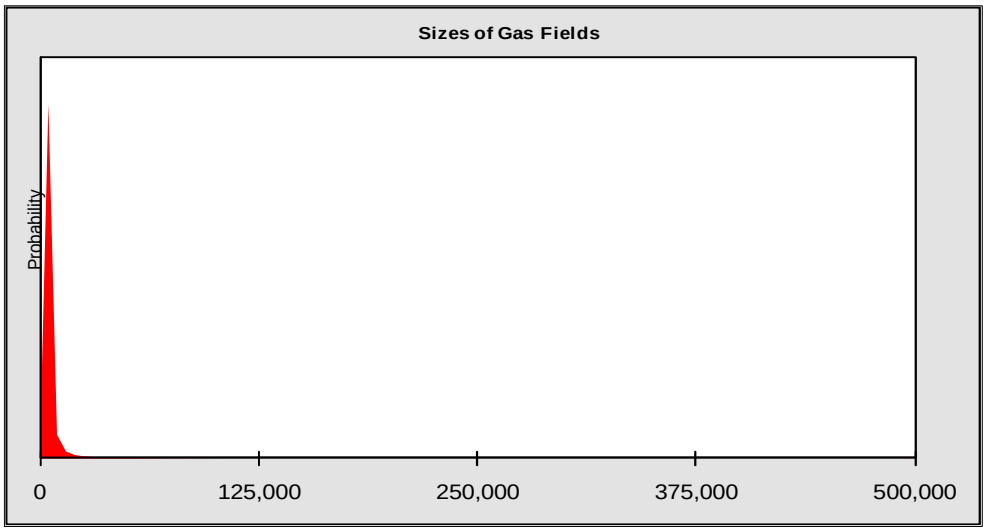
Percentiles:	Simulated values	Theoretical values
P100	11.26	3.00
P95	23.34	23.34
P90	25.94	25.93
P85	27.81	27.86
P80	29.46	29.51
P75	30.97	31.01
P70	32.37	32.43
P65	33.80	33.81
P60	35.19	35.18
P55	36.57	36.57
P50	37.97	37.99
P45	39.48	39.46
P40	41.00	41.03
P35	42.73	42.72
P30	44.60	44.58
P25	46.66	46.69
P20	49.26	49.16
P15	52.37	52.21
P10	56.51	56.33
P5	63.10	63.04
P0	99.90	100.00

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	4,577.92	5,002.01
Median	657.58	658.94
Mode	---	---
Standard Deviation	19,701.84	19,889.10
Variance	388,162,466.70	395,576,428.08
Skewness	12.25	12.11
Kurtosis	202.85	196.87
Coefficient of Variability	4.30	3.98
Minimum	300.03	300.00
Maximum	490,620.93	500,000.00
Range Width	490,320.89	499,700.00
Mean Standard Error	88.11	---

Assumption: Sizes of Gas Fields (cont'd)

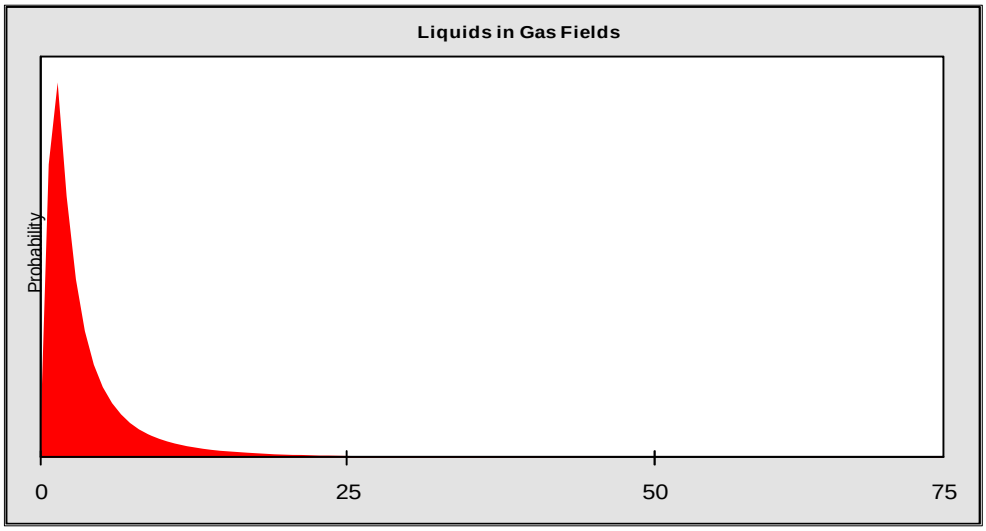
Percentiles:	Simulated values	Theoretical values
P100	300.03	300.00
P95	307.94	307.64
P90	318.23	317.88
P85	332.31	331.74
P80	350.72	350.08
P75	375.37	374.06
P70	406.68	405.23
P65	447.24	445.71
P60	498.60	498.43
P55	567.61	567.52
P50	657.56	658.94
P45	783.45	781.59
P40	951.36	949.18
P35	1,186.95	1,183.84
P30	1,532.29	1,523.35
P25	2,039.60	2,037.13
P20	2,898.79	2,866.21
P15	4,391.25	4,342.13
P10	7,582.16	7,451.34
P5	16,825.64	16,886.26
P0	490,620.93	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	3.87	3.87
Median	2.01	2.00
Mode	---	---
Standard Deviation	5.77	5.78
Variance	33.28	33.41
Skewness	4.49	4.45
Kurtosis	33.16	32.35
Coefficient of Variability	1.49	1.49
Minimum	0.01	0.00
Maximum	74.99	75.00
Range Width	74.97	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	0.60	0.59
P80	0.75	0.74
P75	0.91	0.91
P70	1.09	1.08
P65	1.28	1.27
P60	1.49	1.48
P55	1.73	1.72
P50	2.01	2.00
P45	2.32	2.31
P40	2.69	2.69
P35	3.15	3.14
P30	3.70	3.69
P25	4.41	4.40
P20	5.34	5.35
P15	6.70	6.72
P10	8.95	8.94
P5	13.66	13.62
P0	74.99	75.00

End of Assumptions

Simulation started on 7/11/2008 at 13:03:12
Simulation stopped on 7/11/2008 at 13:24:15