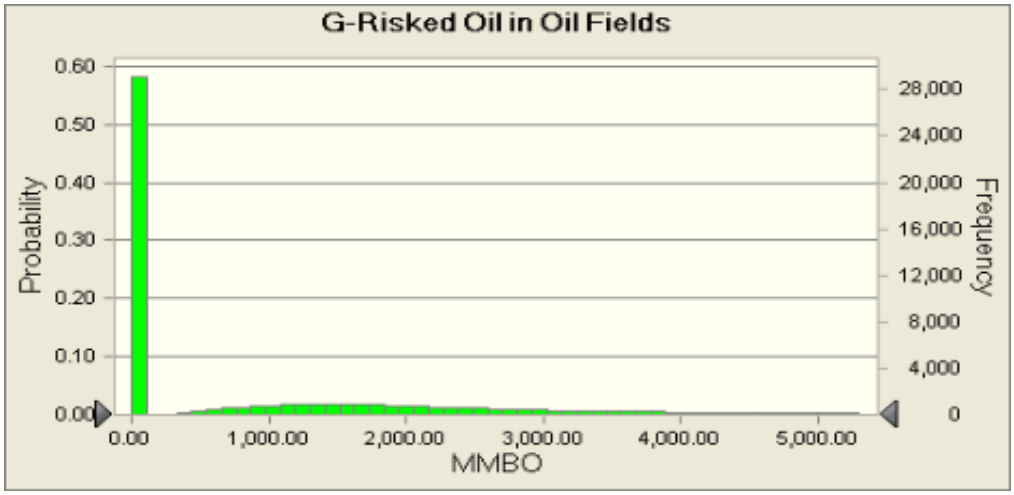
00010202
Siberian Passive Margin
Monte Carlo Results

Forecast: G-Risked Oil in Oil Fields

Summary:
Entire range is from 0.00 to 14,068.67
After 50,000 trials, the standard error of the mean is 6.88



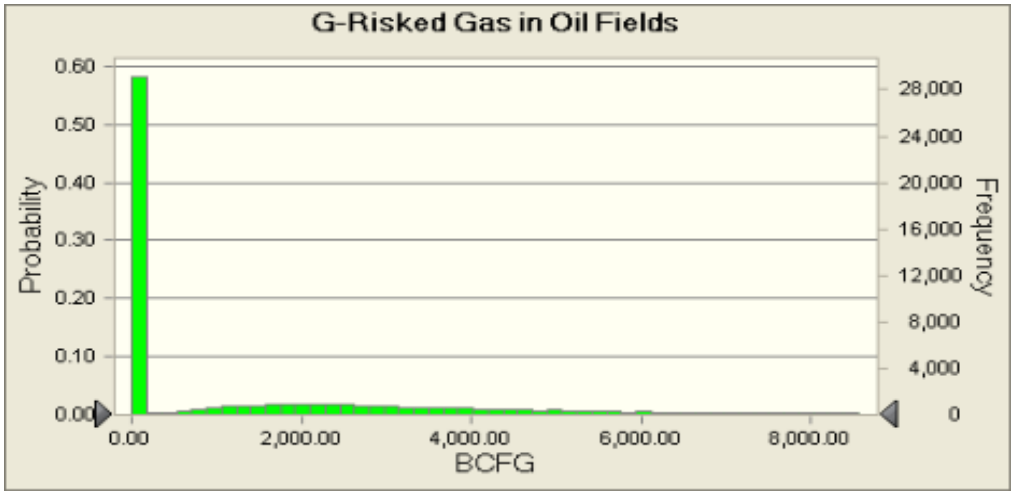
Statistics:	Forecast values
Trials	50,000
Mean	983.55
Median	0.00
Mode	0.00
Standard Deviation	1,538.01
Variance	2,365,466.81
Skewness	2.13
Kurtosis	9.24
Coefficient of Variability	1.56
Minimum	0.00
Maximum	14,068.67
Range Width	14,068.67
Mean Standard Error	6.88

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	0.00
P45	0.00
P40	670.49
P35	1,069.28
P30	1,372.18
P25	1,679.81
P20	2,013.78
P15	2,433.27
P10	3,018.81
P5	4,026.73
P0	14,068.67

Forecast: G-Risked Gas in Oil Fields

Summary:
Entire range is from 0.00 to 24,228.26
After 50,000 trials, the standard error of the mean is 11.21



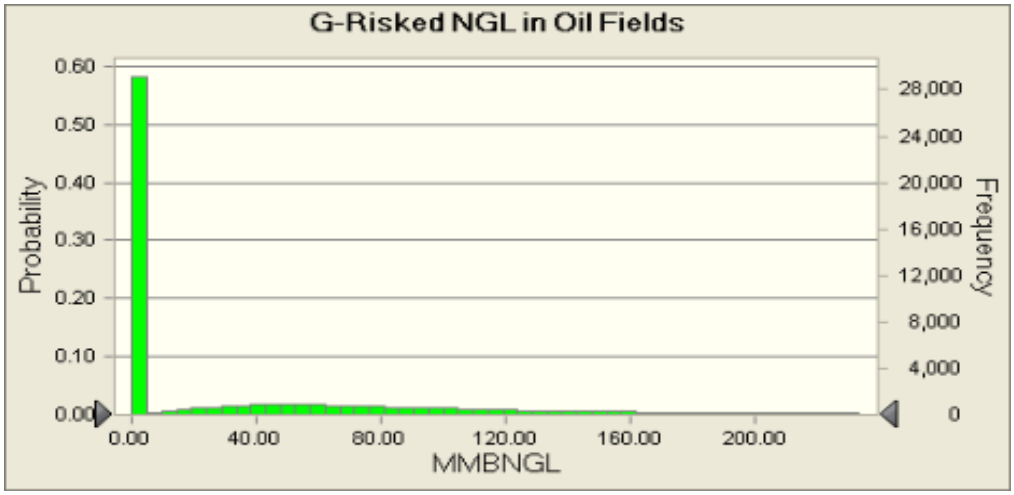
Statistics:	Forecast values
Trials	50,000
Mean	1,538.15
Median	0.00
Mode	0.00
Standard Deviation	2,506.37
Variance	6,281,881.60
Skewness	2.29
Kurtosis	10.04
Coefficient of Variability	1.63
Minimum	0.00
Maximum	24,228.26
Range Width	24,228.26
Mean Standard Error	11.21

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	0.00
P45	0.00
P40	782.22
P35	1,454.93
P30	1,977.07
P25	2,506.26
P20	3,090.78
P15	3,835.20
P10	4,885.79
P5	6,591.70
P0	24,228.26

Forecast: G-Risked NGL in Oil Fields

Summary:
Entire range is from 0.00 to 689.74
After 50,000 trials, the standard error of the mean is 0.31



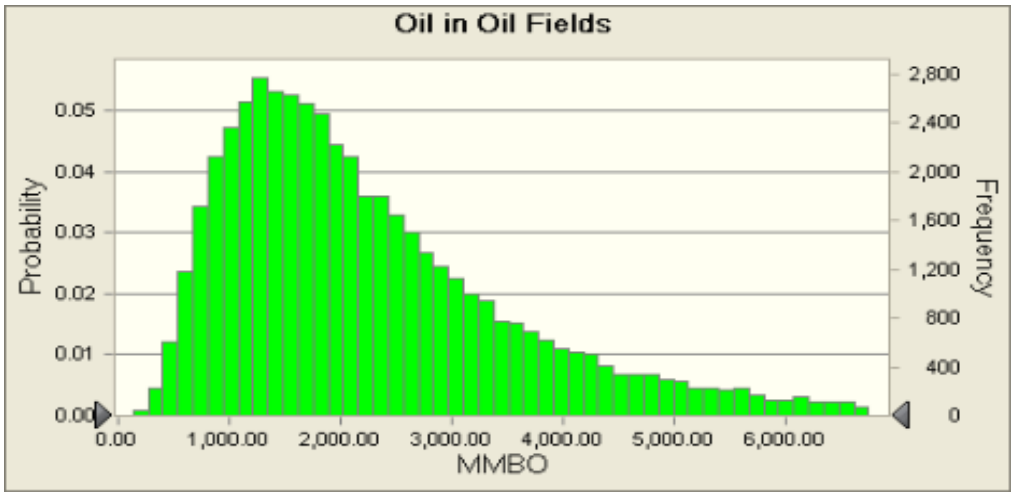
Statistics:	Forecast values
Trials	50,000
Mean	41.54
Median	0.00
Mode	0.00
Standard Deviation	68.33
Variance	4,668.52
Skewness	2.35
Kurtosis	10.54
Coefficient of Variability	1.64
Minimum	0.00
Maximum	689.74
Range Width	689.74
Mean Standard Error	0.31

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	0.00
P45	0.00
P40	20.56
P35	38.27
P30	52.51
P25	66.72
P20	83.20
P15	103.63
P10	131.64
P5	179.33
P0	689.74

Forecast: Conditional Oil in Oil Fields

Summary:
Entire range is from 127.77 to 15,351.52
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 7.01



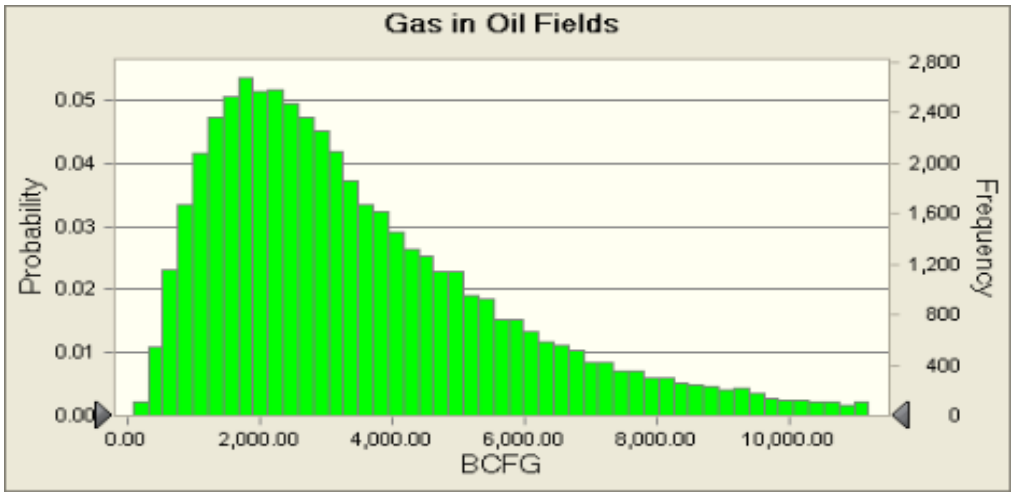
Statistics:	Forecast values
Trials	50,000
Mean	2,356.64
Median	1,948.21
Mode	---
Standard Deviation	1,567.42
Variance	2,456,795.75
Skewness	1.94
Kurtosis	8.76
Coefficient of Variability	0.6651
Minimum	127.77
Maximum	15,351.52
Range Width	15,223.75
Mean Standard Error	7.01

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

Percentiles:	MMBO
P100	127.77
P95	707.85
P90	883.95
P85	1,032.15
P80	1,164.03
P75	1,289.42
P70	1,414.69
P65	1,542.68
P60	1,670.30
P55	1,804.06
P50	1,948.20
P45	2,103.09
P40	2,283.55
P35	2,475.14
P30	2,694.26
P25	2,957.99
P20	3,281.83
P15	3,707.88
P10	4,311.61
P5	5,409.71
P0	15,351.52

Forecast: Conditional Gas in Oil Fields

Summary:
Entire range is from 64.75 to 28,307.23
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 12.00



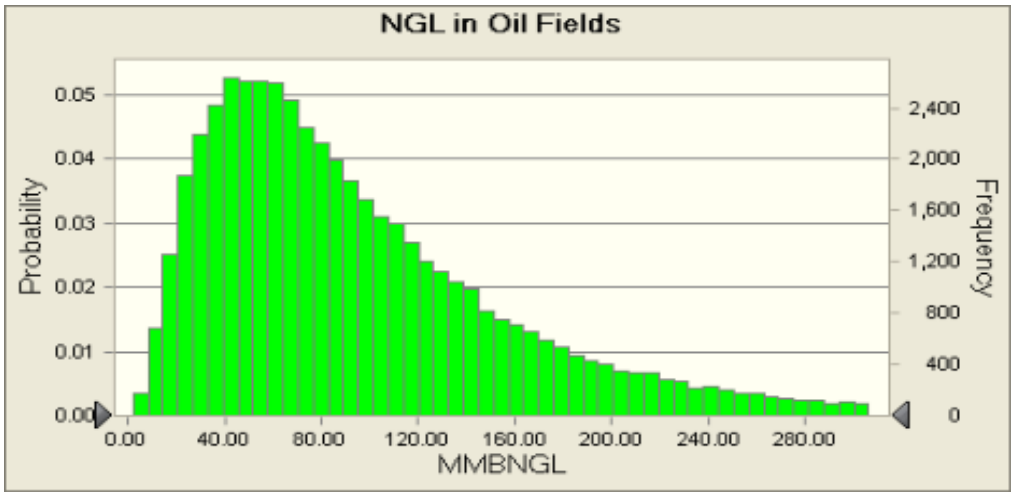
Statistics:	Forecast values
Trials	50,000
Mean	3,682.24
Median	2,977.13
Mode	---
Standard Deviation	2,682.32
Variance	7,194,833.64
Skewness	1.89
Kurtosis	8.46
Coefficient of Variability	0.7284
Minimum	64.75
Maximum	28,307.23
Range Width	28,242.48
Mean Standard Error	12.00

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

Percentiles:	BCFG
P100	64.75
P95	848.19
P90	1,139.24
P85	1,385.06
P80	1,615.58
P75	1,827.20
P70	2,048.76
P65	2,266.11
P60	2,493.20
P55	2,734.82
P50	2,977.03
P45	3,247.17
P40	3,560.06
P35	3,909.02
P30	4,307.71
P25	4,772.56
P20	5,315.98
P15	6,023.81
P10	7,051.13
P5	8,891.24
P0	28,307.23

Forecast: Conditional NGL in Oil Fields

Summary:
Entire range is from 1.93 to 788.82
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.33



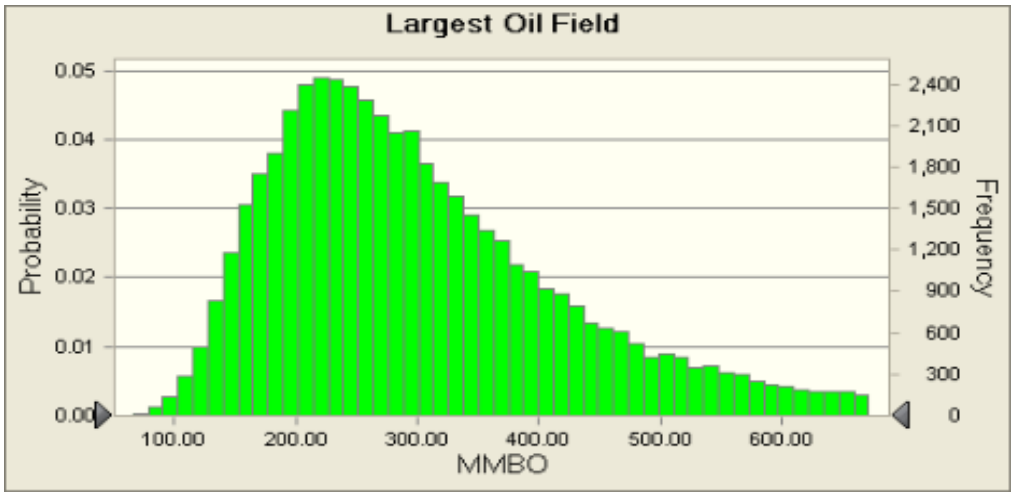
Statistics:	Forecast values
Trials	50,000
Mean	99.55
Median	80.21
Mode	---
Standard Deviation	73.93
Variance	5,465.53
Skewness	1.92
Kurtosis	8.67
Coefficient of Variability	0.7427
Minimum	1.93
Maximum	788.82
Range Width	786.89
Mean Standard Error	0.33

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

Percentiles:	MMBNGL
P100	1.93
P95	22.02
P90	29.86
P85	36.55
P80	42.65
P75	48.42
P70	54.41
P65	60.36
P60	66.52
P55	73.05
P50	80.21
P45	87.67
P40	96.24
P35	105.74
P30	116.21
P25	128.91
P20	143.86
P15	164.01
P10	192.83
P5	243.63
P0	788.82

Forecast: Largest Oil Field

Summary:
Entire range is from 65.81 to 799.63
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.58



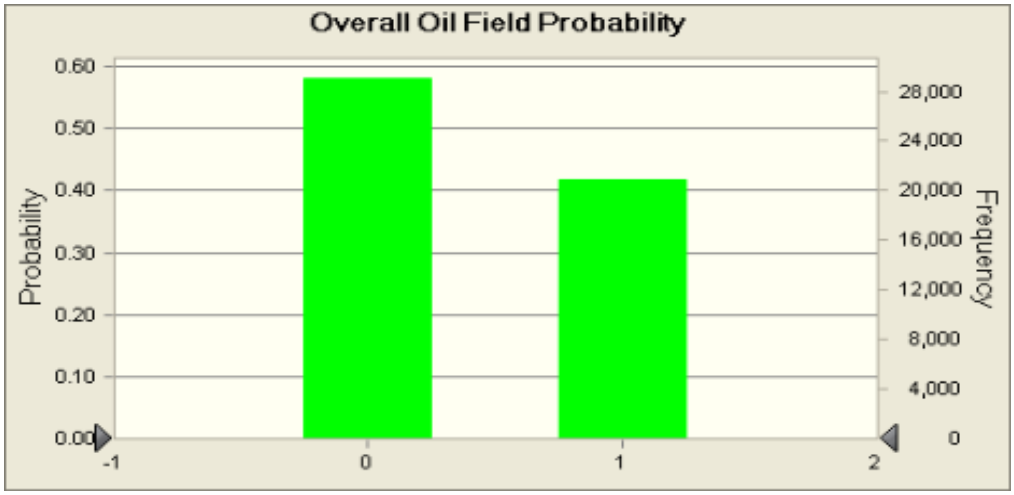
Statistics:	Forecast values
Trials	50,000
Mean	307.21
Median	278.92
Mode	---
Standard Deviation	130.21
Variance	16,954.18
Skewness	1.11
Kurtosis	4.16
Coefficient of Variability	0.4238
Minimum	65.81
Maximum	799.63
Range Width	733.82
Mean Standard Error	0.58

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
P100	65.81
P95	147.63
P90	168.22
P85	185.24
P80	199.67
P75	212.71
P70	225.47
P65	238.05
P60	251.02
P55	264.57
P50	278.92
P45	293.87
P40	310.14
P35	328.27
P30	348.82
P25	372.34
P20	401.15
P15	436.89
P10	488.32
P5	570.99
P0	799.63

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



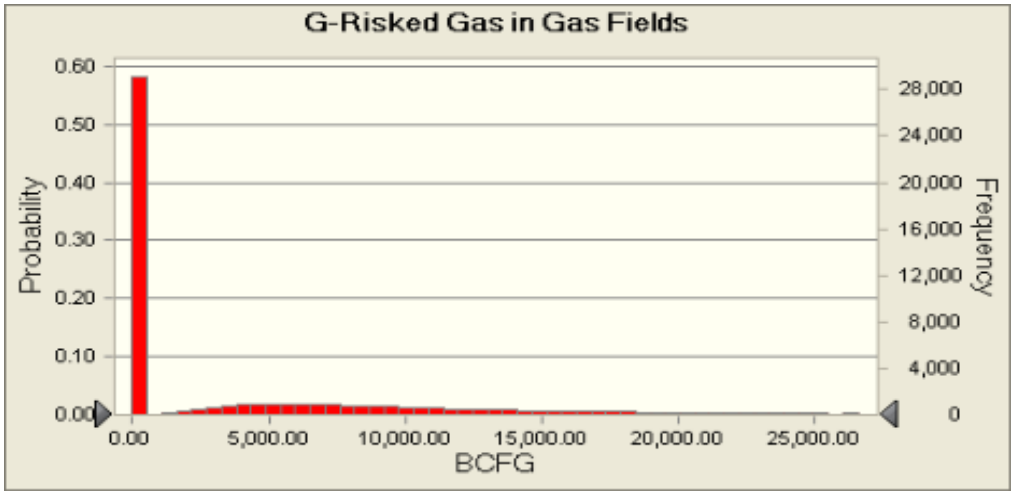
Statistics:	Forecast values	
Trials	50,000	
Mean	0.4178	= the probability of at least one undiscovered oil accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.49	
Variance	0.24	
Skewness	0.3335	
Kurtosis	1.11	
Coefficient of Variability	1.18	
Minimum	0.00	
Maximum	1.00	
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	0.00
P45	0.00
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 90,017.49
After 50,000 trials, the standard error of the mean is 34.98



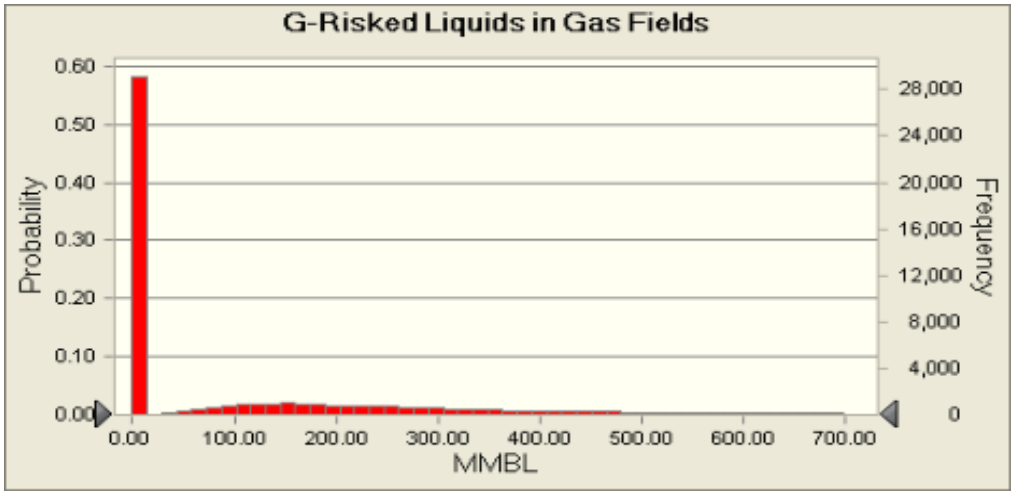
Statistics:	Forecast values
Trials	50,000
Mean	4,683.97
Median	0.00
Mode	0.00
Standard Deviation	7,821.21
Variance	61,171,354.88
Skewness	2.60
Kurtosis	12.98
Coefficient of Variability	1.67
Minimum	0.00
Maximum	90,017.49
Range Width	90,017.49
Mean Standard Error	34.98

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	0.00
P45	0.00
P40	2,669.31
P35	4,431.32
P30	5,879.75
P25	7,412.09
P20	9,167.32
P15	11,351.90
P10	14,457.43
P5	20,117.68
P0	90,017.49

Forecast: G-Risked Liquids in Gas Fields

Summary:
Entire range is from 0.00 to 2,329.87
After 50,000 trials, the standard error of the mean is 0.94



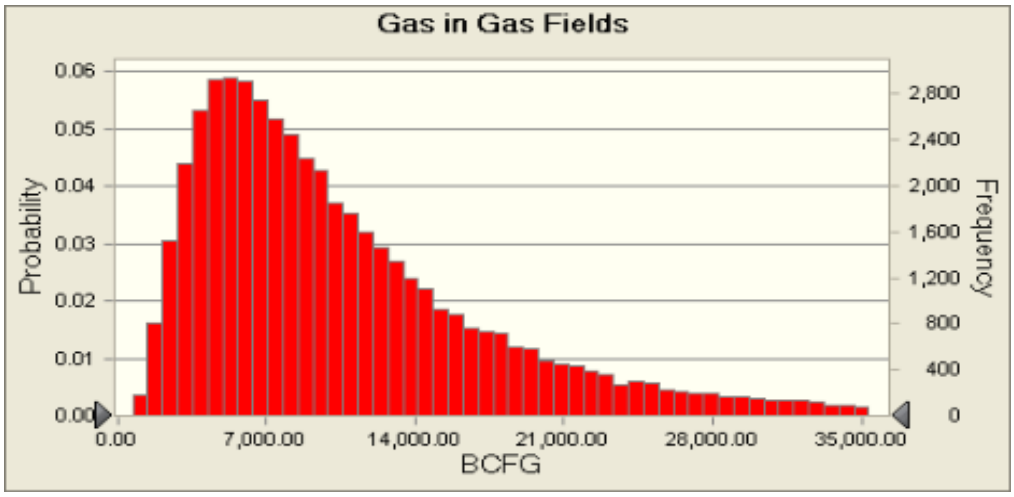
Statistics:	Forecast values
Trials	50,000
Mean	124.96
Median	0.00
Mode	0.00
Standard Deviation	209.70
Variance	43,972.97
Skewness	2.61
Kurtosis	13.00
Coefficient of Variability	1.68
Minimum	0.00
Maximum	2,329.87
Range Width	2,329.87
Mean Standard Error	0.94

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	0.00
P45	0.00
P40	68.41
P35	116.16
P30	154.92
P25	195.99
P20	243.99
P15	303.51
P10	387.59
P5	540.72
P0	2,329.87

Forecast: Conditional Gas in Gas Fields

Summary:
Entire range is from 721.21 to 90,017.49
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 38.53



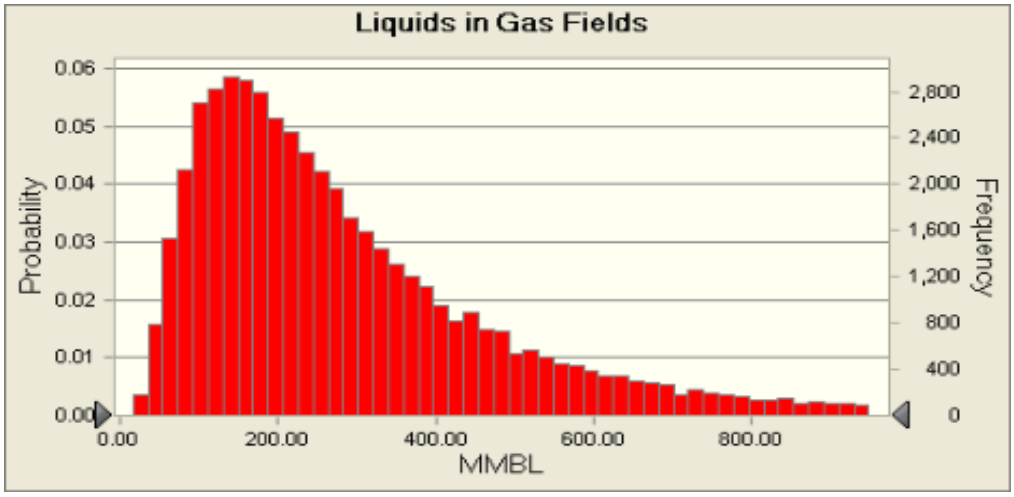
Statistics:	Forecast values
Trials	50,000
Mean	11,224.47
Median	8,810.96
Mode	---
Standard Deviation	8,616.41
Variance	74,242,575.70
Skewness	2.27
Kurtosis	10.97
Coefficient of Variability	0.7676
Minimum	721.21
Maximum	90,017.49
Range Width	89,296.28
Mean Standard Error	38.53

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

Percentiles:	BCFG
P100	721.21
P95	2,839.64
P90	3,631.57
P85	4,283.09
P80	4,887.36
P75	5,493.79
P70	6,096.70
P65	6,722.58
P60	7,377.22
P55	8,072.95
P50	8,810.92
P45	9,631.82
P40	10,550.56
P35	11,567.62
P30	12,743.85
P25	14,135.01
P20	15,909.17
P15	18,241.10
P10	21,623.75
P5	27,933.16
P0	90,017.49

Forecast: Conditional Liquids in Gas Fields

Summary:
Entire range is from 15.47 to 2,340.90
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.04



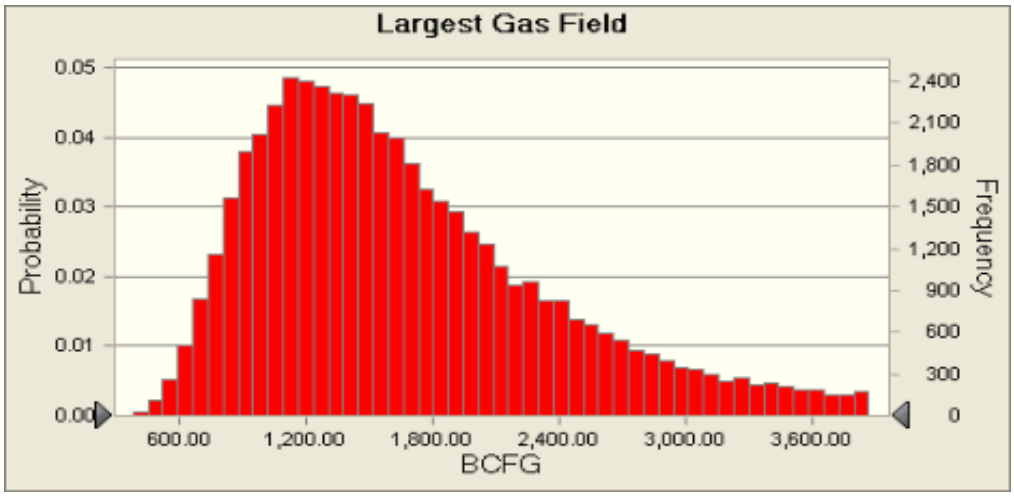
Statistics:	Forecast values
Trials	50,000
Mean	299.32
Median	234.74
Mode	---
Standard Deviation	231.89
Variance	53,771.16
Skewness	2.25
Kurtosis	10.86
Coefficient of Variability	0.7747
Minimum	15.47
Maximum	2,340.90
Range Width	2,325.44
Mean Standard Error	1.04

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

Percentiles:	MMBL
P100	15.47
P95	72.54
P90	94.35
P85	111.82
P80	128.66
P75	145.00
P70	161.26
P65	177.80
P60	195.61
P55	214.45
P50	234.74
P45	256.37
P40	280.46
P35	308.80
P30	340.56
P25	378.80
P20	427.50
P15	487.68
P10	581.30
P5	746.92
P0	2,340.90

Forecast: Largest Gas Field

Summary:
Entire range is from 373.44 to 4,798.85
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.46



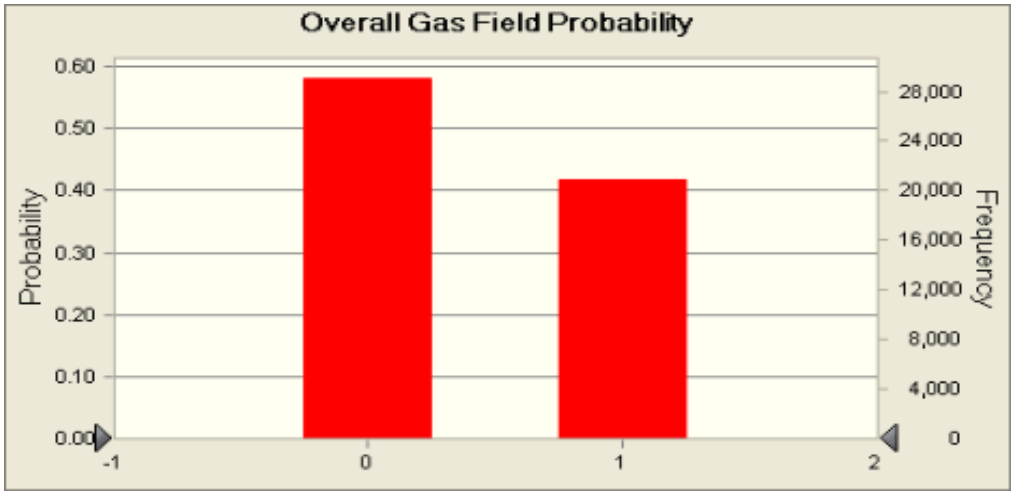
Statistics:	Forecast values
Trials	50,000
Mean	1,705.02
Median	1,527.00
Mode	---
Standard Deviation	773.96
Variance	599,018.92
Skewness	1.20
Kurtosis	4.44
Coefficient of Variability	0.4539
Minimum	373.44
Maximum	4,798.85
Range Width	4,425.42
Mean Standard Error	3.46

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	373.44
P95	780.28
P90	895.67
P85	986.07
P80	1,070.52
P75	1,143.81
P70	1,217.67
P65	1,292.79
P60	1,370.31
P55	1,447.35
P50	1,526.98
P45	1,615.00
P40	1,711.41
P35	1,819.58
P30	1,938.84
P25	2,075.82
P20	2,254.63
P15	2,470.42
P10	2,771.93
P5	3,294.56
P0	4,798.85

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	0.4178	= the probability of at least one undiscovered gas accumulation of minimum size or larger
Median	0.00	
Mode	0.00	
Standard Deviation	0.49	
Variance	0.24	
Skewness	0.3335	
Kurtosis	1.11	
Coefficient of Variability	1.18	
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	0.00
P45	0.00
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

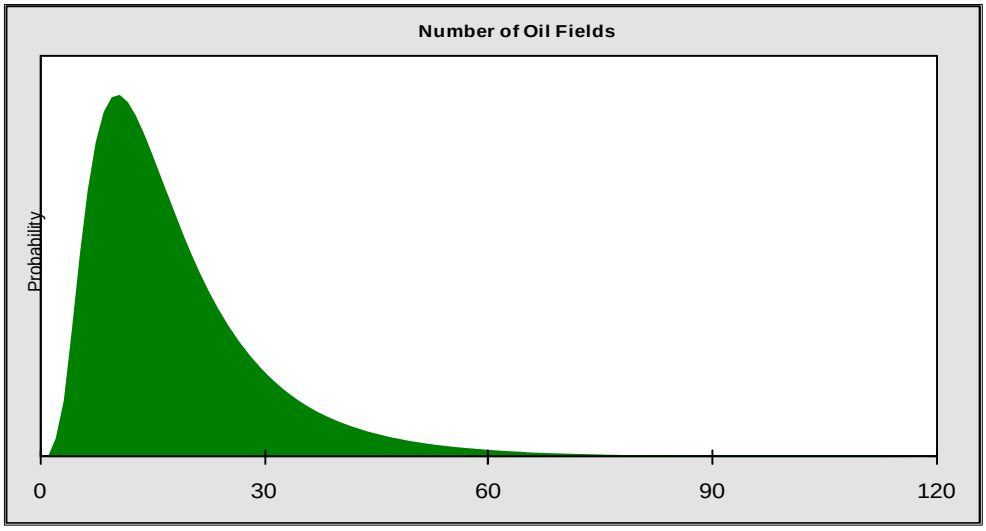
Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:

Mean	19.36
Standard Deviation	12.96

Selected range is from 1.00 to 108.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	19.24	19.25
Median	15.94	15.99
Mode	---	---
Standard Deviation	12.52	12.45
Variance	156.64	155.12
Skewness	1.99	1.97
Kurtosis	8.94	8.83
Coefficient of Variability	0.6505	0.6470
Minimum	2.06	1.00
Maximum	107.31	108.00
Range Width	105.25	107.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (cont'd)

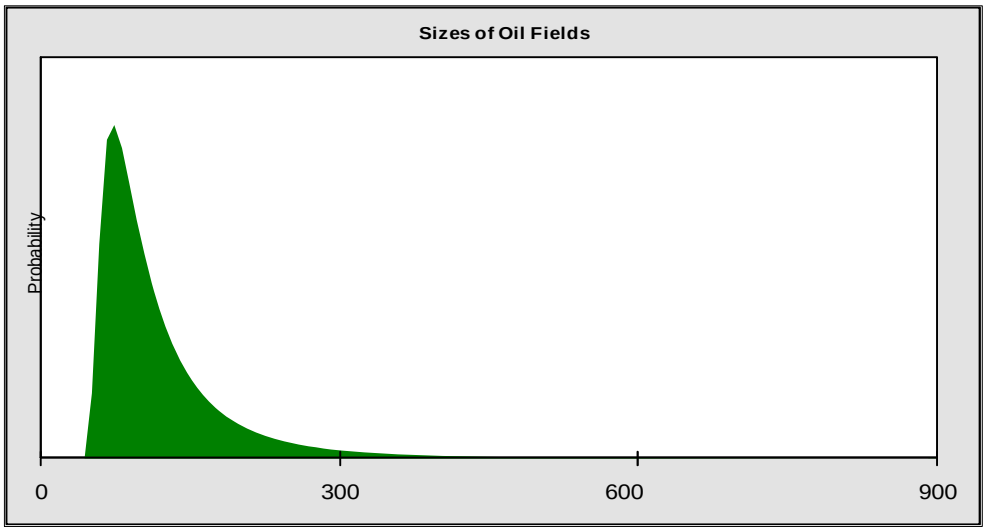
Percentiles:	Simulated values	Theoretical values
P100	2.06	1.00
P95	6.25	6.27
P90	7.62	7.64
P85	8.74	8.76
P80	9.76	9.78
P75	10.75	10.76
P70	11.73	11.74
P65	12.70	12.73
P60	13.73	13.76
P55	14.82	14.84
P50	15.94	15.99
P45	17.13	17.23
P40	18.52	18.60
P35	20.06	20.14
P30	21.82	21.91
P25	23.94	24.00
P20	26.61	26.57
P15	30.02	29.93
P10	34.88	34.77
P5	43.46	43.44
P0	107.31	108.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	123.41
Standard Deviation	78.91

Selected range is from 50.00 to 800.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	122.50	122.50
Median	99.99	99.95
Mode	---	---
Standard Deviation	72.59	72.94
Variance	5,269.57	5,319.65
Skewness	2.92	2.96
Kurtosis	15.96	16.23
Coefficient of Variability	0.59	0.60
Minimum	51.50	50.00
Maximum	797.35	800.00
Range Width	745.85	750.00
Mean Standard Error	0.32	---

Assumption: Sizes of Oil Fields (cont'd)

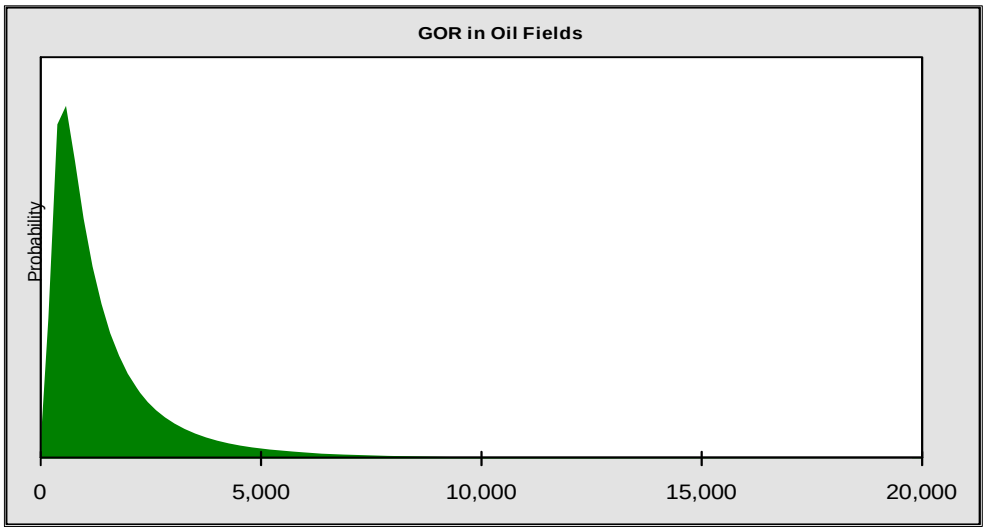
Percentiles:	Simulated values	Theoretical values
P100	51.50	50.00
P95	61.80	61.82
P90	66.35	66.25
P85	70.08	70.15
P80	73.91	73.90
P75	77.64	77.67
P70	81.42	81.55
P65	85.57	85.64
P60	90.03	90.01
P55	94.70	94.74
P50	99.99	99.95
P45	105.75	105.75
P40	112.20	112.35
P35	119.83	119.98
P30	128.86	129.03
P25	140.36	140.11
P20	154.90	154.28
P15	174.38	173.61
P10	203.42	203.04
P5	260.76	259.67
P0	797.35	800.00

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	1,568.26	1,560.86
Median	993.77	998.87
Mode	---	---
Standard Deviation	1,774.28	1,751.30
Variance	3,148,066.01	3,067,051.73
Skewness	3.51	3.56
Kurtosis	20.91	21.98
Coefficient of Variability	1.13	1.12
Minimum	117.26	100.00
Maximum	19,911.15	20,000.00
Range Width	19,793.89	19,900.00
Mean Standard Error	7.93	---

Assumption: GOR in Oil Fields (cont'd)

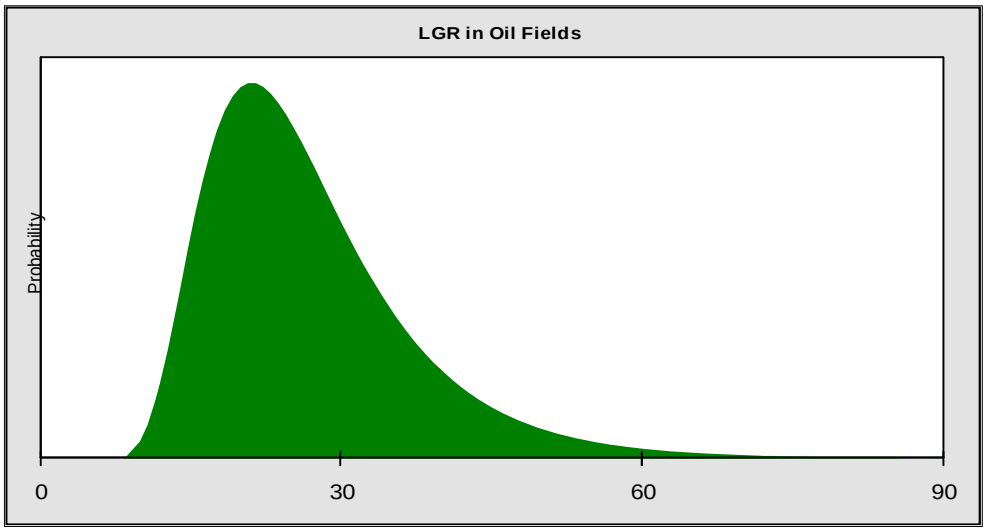
Percentiles:	Simulated values	Theoretical values
P100	117.26	100.00
P95	270.06	273.09
P90	346.68	349.07
P85	416.37	418.39
P80	485.02	486.99
P75	557.45	557.51
P70	632.64	631.71
P65	712.51	711.17
P60	797.03	797.51
P55	890.34	892.62
P50	993.77	998.87
P45	1,115.91	1,119.34
P40	1,257.66	1,258.27
P35	1,429.22	1,421.75
P30	1,630.59	1,619.00
P25	1,872.21	1,864.90
P20	2,184.22	2,185.60
P15	2,616.02	2,633.15
P10	3,323.66	3,333.57
P5	4,787.06	4,734.66
P0	19,911.15	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	27.04	27.05
Median	24.95	24.99
Mode	---	---
Standard Deviation	10.25	10.21
Variance	105.12	104.25
Skewness	1.29	1.31
Kurtosis	5.42	5.52
Coefficient of Variability	0.3792	0.3775
Minimum	7.00	5.00
Maximum	84.64	85.00
Range Width	77.64	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (cont'd)

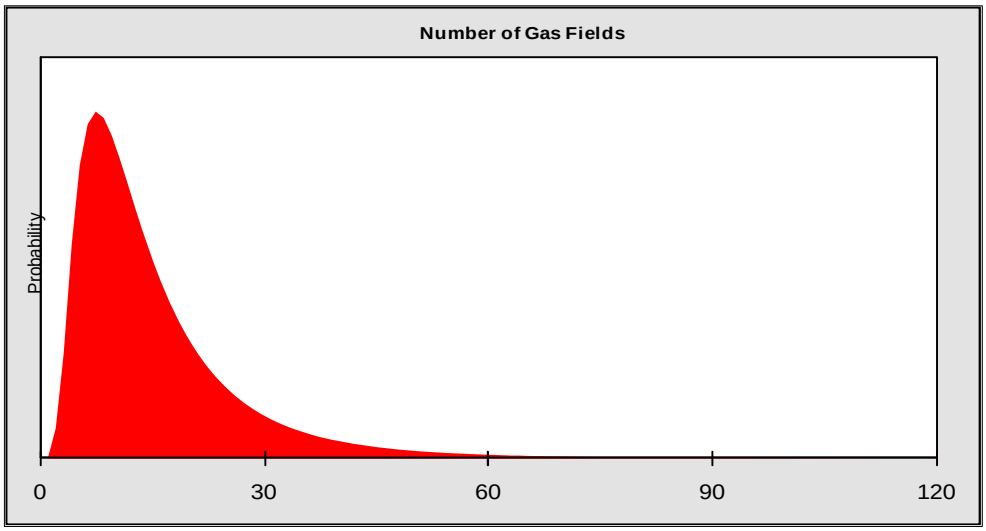
Percentiles:	Simulated values	Theoretical values
P100	7.00	5.00
P95	14.52	14.56
P90	16.19	16.25
P85	17.50	17.56
P80	18.62	18.71
P75	19.68	19.77
P70	20.73	20.80
P65	21.76	21.82
P60	22.79	22.84
P55	23.83	23.89
P50	24.95	24.99
P45	26.13	26.15
P40	27.42	27.39
P35	28.76	28.76
P30	30.24	30.28
P25	32.06	32.04
P20	34.21	34.14
P15	36.92	36.79
P10	40.53	40.46
P5	46.73	46.66
P0	84.64	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:

Mean	15.42
Standard Deviation	12.23

Selected range is from 1.00 to 108.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.27	15.30
Median	12.01	11.99
Mode	---	---
Standard Deviation	11.50	11.60
Variance	132.35	134.57
Skewness	2.32	2.36
Kurtosis	11.19	11.41
Coefficient of Variability	0.7534	0.7580
Minimum	1.44	1.00
Maximum	107.17	108.00
Range Width	105.73	107.00
Mean Standard Error	0.05	---

Assumption: Number of Gas Fields (cont'd)

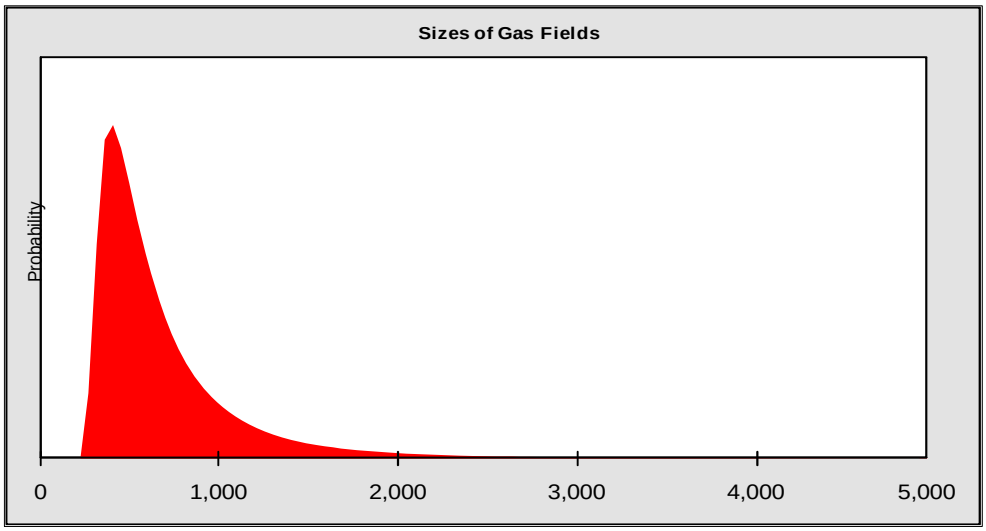
Percentiles:	Simulated values	Theoretical values
P100	1.44	1.00
P95	4.25	4.28
P90	5.27	5.28
P85	6.10	6.13
P80	6.89	6.92
P75	7.66	7.69
P70	8.44	8.47
P65	9.26	9.28
P60	10.10	10.12
P55	11.00	11.02
P50	12.01	11.99
P45	13.06	13.05
P40	14.28	14.24
P35	15.60	15.59
P30	17.18	17.16
P25	19.10	19.04
P20	21.46	21.40
P15	24.53	24.53
P10	29.02	29.15
P5	37.49	37.68
P0	107.17	108.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	740.46
Standard Deviation	473.48

Selected range is from 300.00 to 4,800.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	739.23	734.97
Median	603.14	599.67
Mode	---	---
Standard Deviation	438.85	437.62
Variance	192,590.33	191,507.34
Skewness	2.91	2.96
Kurtosis	15.67	16.23
Coefficient of Variability	0.5937	0.60
Minimum	307.62	300.00
Maximum	4,796.47	4,800.00
Range Width	4,488.86	4,500.00
Mean Standard Error	1.96	---

Assumption: Sizes of Gas Fields (cont'd)

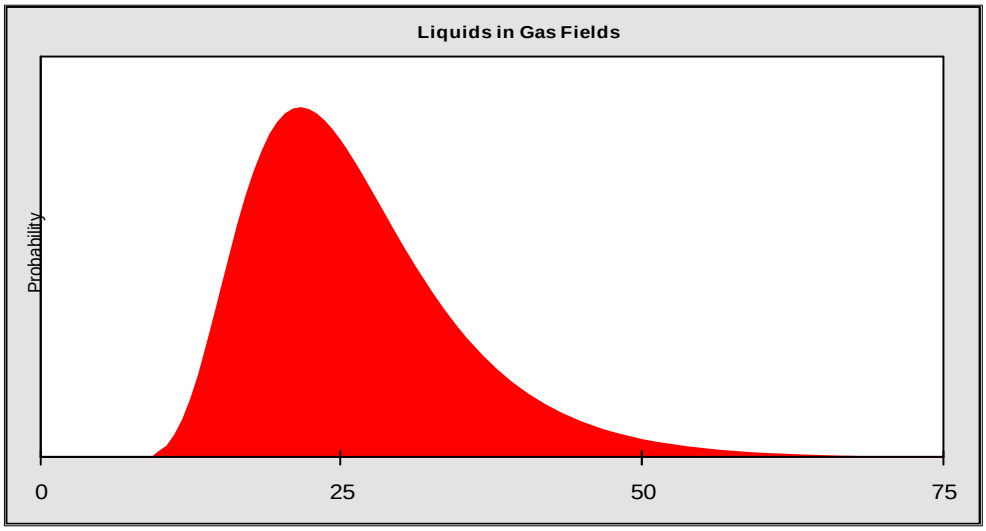
Percentiles:	Simulated values	Theoretical values
P100	307.62	300.00
P95	372.65	370.94
P90	400.10	397.53
P85	423.81	420.89
P80	445.86	443.39
P75	468.49	466.00
P70	491.46	489.32
P65	515.77	513.85
P60	542.66	540.05
P55	571.75	568.45
P50	603.14	599.67
P45	639.37	634.52
P40	677.40	674.07
P35	721.35	719.87
P30	777.47	774.19
P25	847.95	840.68
P20	935.72	925.70
P15	1,051.16	1,041.68
P10	1,222.81	1,218.22
P5	1,574.47	1,558.03
P0	4,796.47	4,800.00

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	26.63	26.66
Median	25.01	24.99
Mode	---	---
Standard Deviation	8.94	9.00
Variance	79.85	80.97
Skewness	1.15	1.17
Kurtosis	4.96	4.99
Coefficient of Variability	0.3355	0.3376
Minimum	8.38	5.00
Maximum	74.86	75.00
Range Width	66.48	70.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	8.38	5.00
P95	15.27	15.26
P90	16.88	16.89
P85	18.15	18.13
P80	19.23	19.21
P75	20.21	20.21
P70	21.17	21.16
P65	22.09	22.10
P60	23.04	23.04
P55	24.02	24.00
P50	25.01	24.99
P45	26.06	26.03
P40	27.15	27.15
P35	28.38	28.36
P30	29.72	29.72
P25	31.26	31.26
P20	33.08	33.10
P15	35.36	35.40
P10	38.41	38.56
P5	43.61	43.82
P0	74.86	75.00

End of Assumptions

Simulation started on 5/23/2008 at 16:02:08
Simulation stopped on 5/23/2008 at 16:31:34