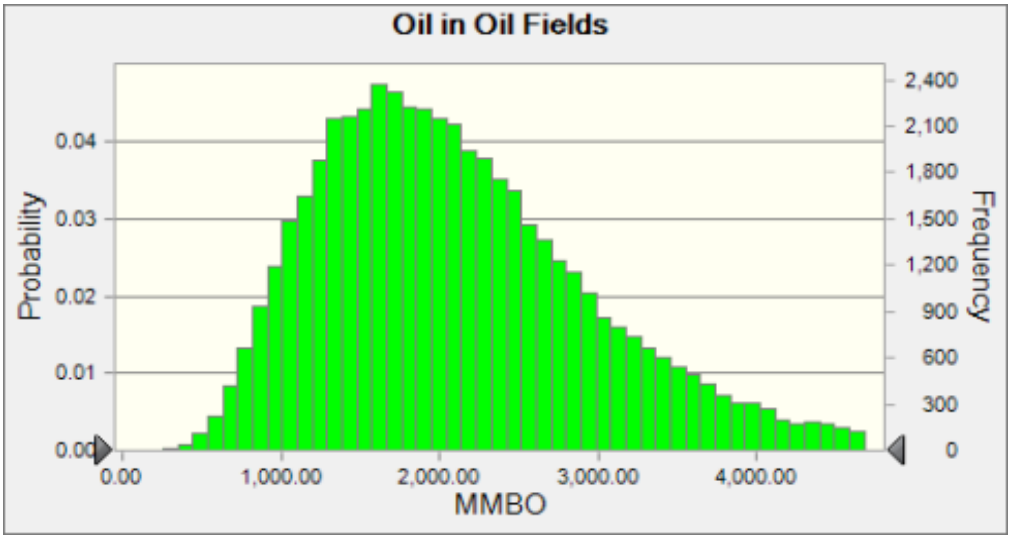
73630101
Mesozoic-Cenozoic Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 66.81 to 7,558.00
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 4.07



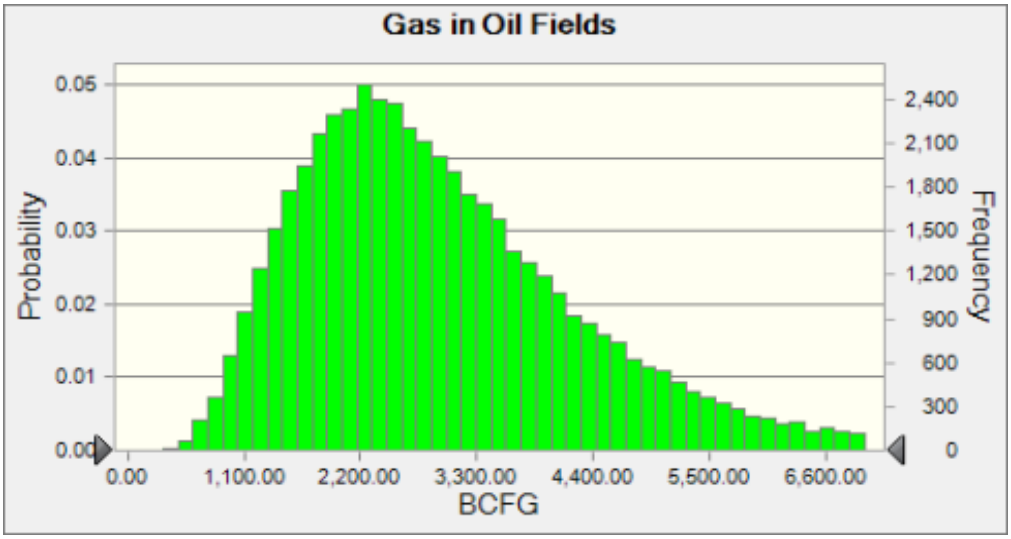
Statistics:	Forecast values
Trials	50,000
Mean	2,128.65
Median	1,983.66
Mode	---
Standard Deviation	911.10
Variance	830,107.40
Skewness	0.9804
Kurtosis	4.39
Coefficient of Variability	0.4280
Minimum	66.81
Maximum	7,558.00
Range Width	7,491.19
Mean Standard Error	4.07

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	66.81
95%	923.82
90%	1,099.13
85%	1,238.57
80%	1,354.87
75%	1,463.62
70%	1,569.01
65%	1,668.97
60%	1,770.48
55%	1,876.92
50%	1,983.61
45%	2,094.86
40%	2,210.48
35%	2,336.97
30%	2,474.61
25%	2,627.37
20%	2,812.92
15%	3,039.63
10%	3,355.99
5%	3,851.41
0%	7,558.00

Forecast: Gas in Oil Fields

Summary:
Entire range is from 49.57 to 18,460.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 6.33



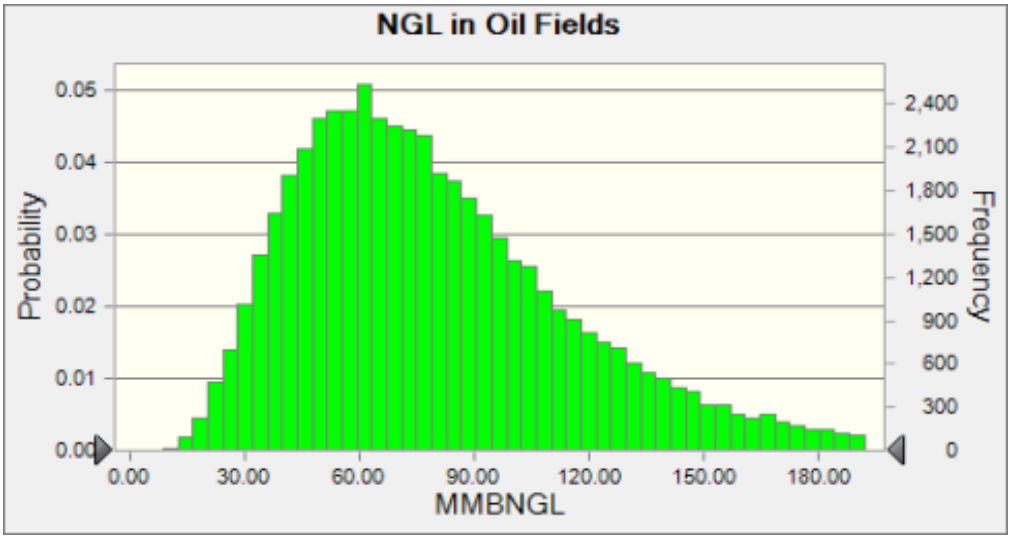
Statistics:	Forecast values
Trials	50,000
Mean	2,995.41
Median	2,728.22
Mode	---
Standard Deviation	1,416.26
Variance	2,005,805.42
Skewness	1.25
Kurtosis	5.76
Coefficient of Variability	0.4728
Minimum	49.57
Maximum	18,460.28
Range Width	18,410.71
Mean Standard Error	6.33

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	49.57
95%	1,209.27
90%	1,459.51
85%	1,653.43
80%	1,825.44
75%	1,980.73
70%	2,133.74
65%	2,276.94
60%	2,421.37
55%	2,570.22
50%	2,728.18
45%	2,896.27
40%	3,077.11
35%	3,267.91
30%	3,478.98
25%	3,725.09
20%	4,011.48
15%	4,378.79
10%	4,871.54
5%	5,657.15
0%	18,460.28

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.96 to 494.73
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.18



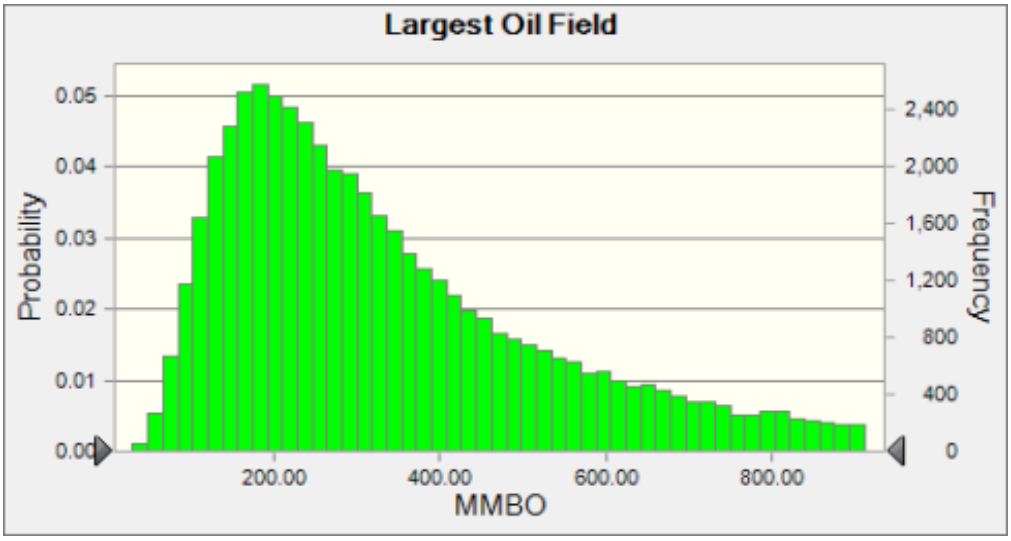
Statistics:	Forecast values
Trials	50,000
Mean	81.03
Median	73.52
Mode	---
Standard Deviation	39.58
Variance	1,566.53
Skewness	1.36
Kurtosis	6.47
Coefficient of Variability	0.4884
Minimum	0.96
Maximum	494.73
Range Width	493.76
Mean Standard Error	0.18

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.96
95%	32.11
90%	38.72
85%	43.98
80%	48.58
75%	52.80
70%	56.80
65%	60.92
60%	64.93
55%	69.15
50%	73.52
45%	77.91
40%	82.93
35%	88.21
30%	93.94
25%	100.91
20%	108.81
15%	119.14
10%	132.82
5%	155.47
0%	494.73

Forecast: Largest Oil Field

Summary:
Entire range is from 30.16 to 999.91
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.91



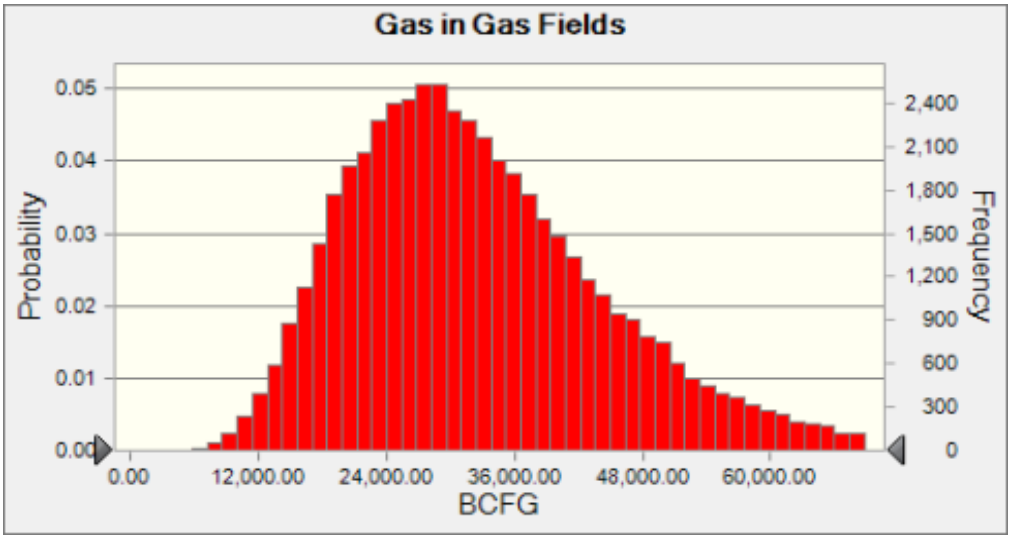
Statistics:	Forecast values
Trials	50,000
Mean	340.16
Median	285.10
Mode	---
Standard Deviation	203.69
Variance	41,489.04
Skewness	1.09
Kurtosis	3.63
Coefficient of Variability	0.5988
Minimum	30.16
Maximum	999.91
Range Width	969.74
Mean Standard Error	0.91

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	30.16
95%	106.27
90%	130.37
85%	150.90
80%	169.36
75%	186.62
70%	204.59
65%	222.95
60%	242.11
55%	262.80
50%	285.10
45%	308.82
40%	335.54
35%	366.16
30%	401.36
25%	443.58
20%	496.56
15%	560.88
10%	648.05
5%	775.77
0%	999.91

Forecast: Gas in Gas Fields

Summary:
Entire range is from 244.36 to 111,928.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 57.18



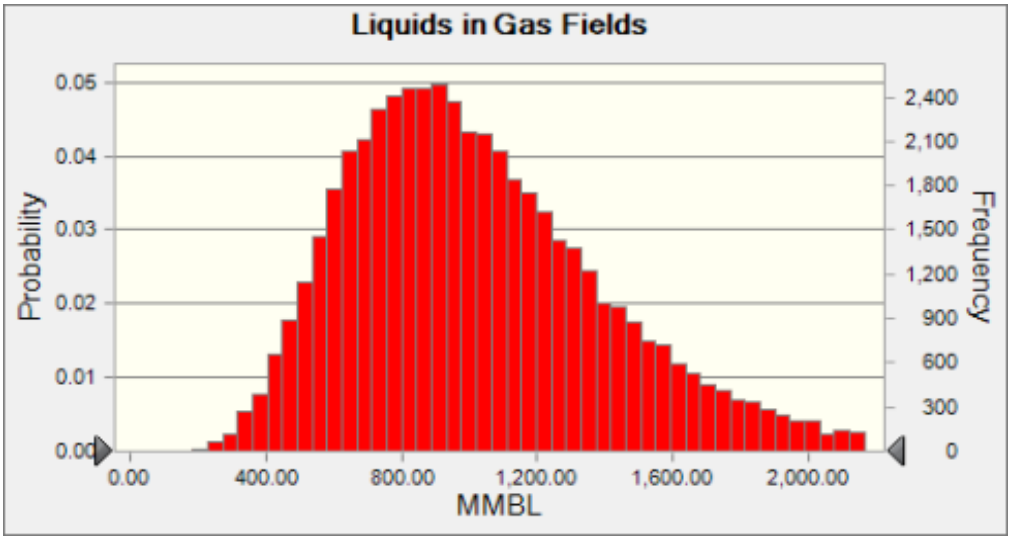
Statistics:	Forecast values
Trials	50,000
Mean	32,969.19
Median	30,931.04
Mode	---
Standard Deviation	12,785.36
Variance	163,465,554.10
Skewness	0.9621
Kurtosis	4.36
Coefficient of Variability	0.3878
Minimum	244.36
Maximum	111,928.22
Range Width	111,683.87
Mean Standard Error	57.18

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	244.36
95%	15,915.21
90%	18,567.48
85%	20,471.02
80%	22,190.75
75%	23,792.47
70%	25,231.94
65%	26,684.54
60%	28,075.68
55%	29,454.97
50%	30,930.21
45%	32,465.40
40%	34,106.82
35%	35,870.93
30%	37,794.91
25%	39,993.91
20%	42,592.31
15%	45,815.05
10%	49,937.16
5%	57,023.56
0%	111,928.22

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 8.37 to 3,412.69
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.80



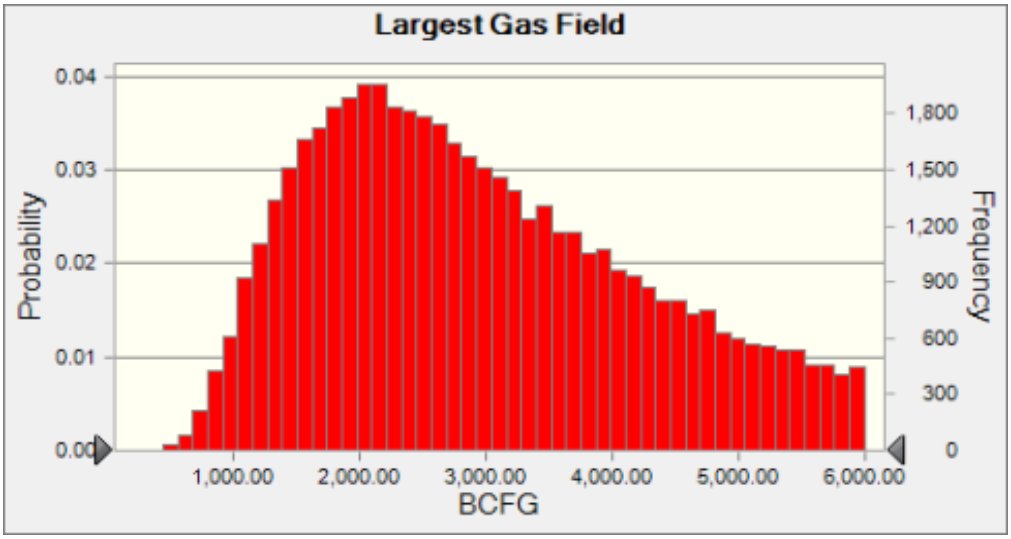
Statistics:	Forecast values
Trials	50,000
Mean	1,033.74
Median	967.75
Mode	---
Standard Deviation	403.51
Variance	162,821.89
Skewness	0.9594
Kurtosis	4.33
Coefficient of Variability	0.3903
Minimum	8.37
Maximum	3,412.69
Range Width	3,404.32
Mean Standard Error	1.80

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	8.37
95%	496.32
90%	580.38
85%	640.98
80%	693.39
75%	742.58
70%	788.65
65%	833.93
60%	878.30
55%	922.52
50%	967.73
45%	1,018.73
40%	1,069.74
35%	1,125.24
30%	1,187.22
25%	1,256.75
20%	1,336.89
15%	1,437.66
10%	1,571.03
5%	1,793.52
0%	3,412.69

Forecast: Largest Gas Field

Summary:
Entire range is from 205.56 to 5,998.25
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.70



Statistics:	Forecast values
Trials	50,000
Mean	2,937.43
Median	2,729.74
Mode	---
Standard Deviation	1,273.47
Variance	1,621,716.14
Skewness	0.4846
Kurtosis	2.37
Coefficient of Variability	0.4335
Minimum	205.56
Maximum	5,998.25
Range Width	5,792.69
Mean Standard Error	5.70

Forecast: Largest Gas Field (continued)

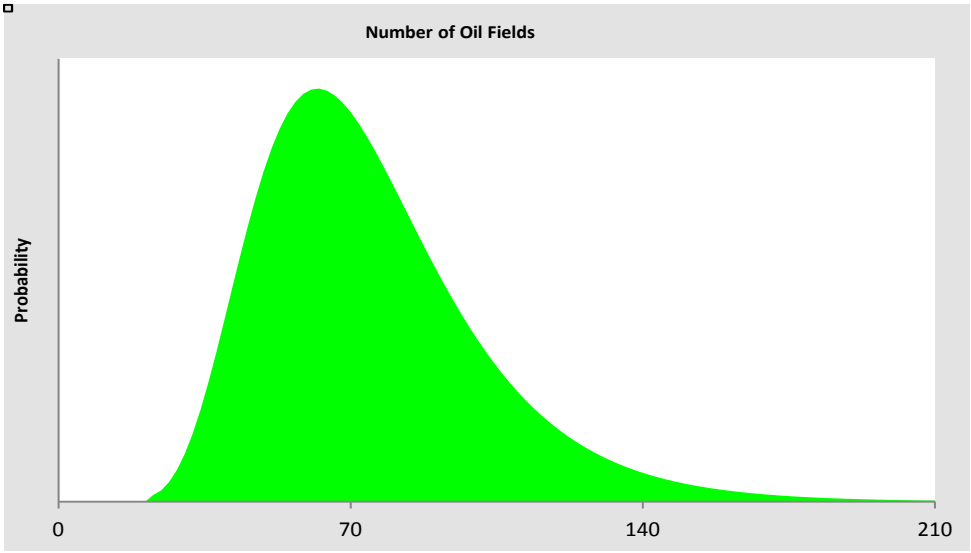
Percentiles:	BCFG
100%	205.56
95%	1,175.83
90%	1,410.71
85%	1,596.77
80%	1,768.05
75%	1,927.10
70%	2,080.89
65%	2,231.66
60%	2,393.14
55%	2,558.19
50%	2,729.72
45%	2,915.15
40%	3,112.38
35%	3,327.11
30%	3,562.75
25%	3,822.76
20%	4,112.93
15%	4,454.82
10%	4,849.27
5%	5,360.71
0%	5,998.25

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	73.58	74.58
Standard Deviation	27.26	27.26
Selected range is from -Infinity to 209.00		1.00 to 210.00



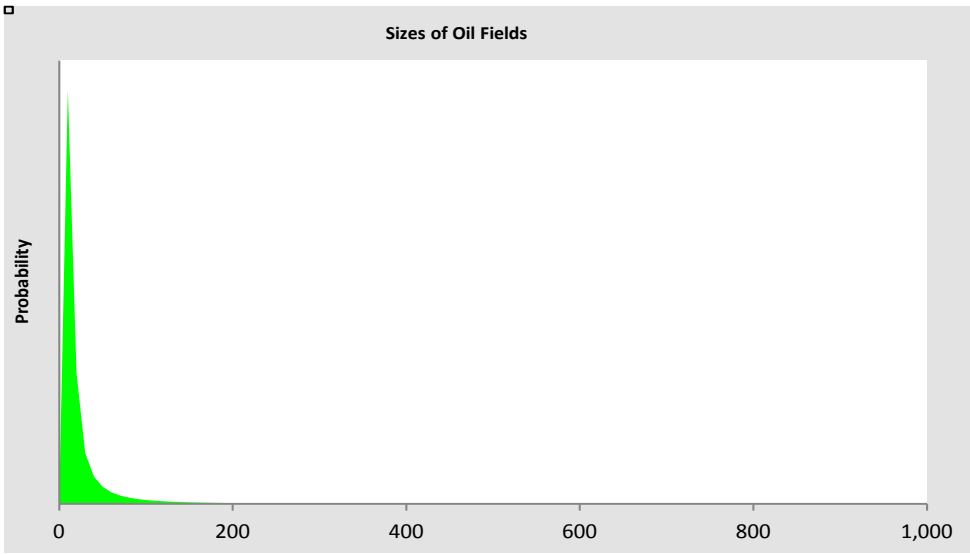
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	74.37	74.42
Median	70.07	69.97
Mode	---	---
Standard Deviation	26.81	26.80
Variance	718.53	718.36
Skewness	1.02	1.02
Kurtosis	4.50	4.49
Coefficient of Variability	0.3604	0.3601
Minimum	16.16	1.00
Maximum	209.23	210.00
Range Width	193.07	209.00
Mean Standard Error	0.12	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	16.16	1.00
95%	39.25	39.24
90%	44.38	44.57
85%	48.30	48.57
80%	51.80	52.01
75%	55.06	55.16
70%	58.05	58.15
65%	61.02	61.07
60%	64.01	63.98
55%	66.97	66.93
50%	70.07	69.97
45%	73.22	73.14
40%	76.60	76.52
35%	80.26	80.18
30%	84.19	84.22
25%	88.75	88.81
20%	94.08	94.22
15%	100.84	100.93
10%	110.20	110.06
5%	125.01	125.06
0%	209.23	210.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	25.34	30.34
Standard Deviation	88.19	88.19
Selected range is from -Infinity to 995.00		5.00 to 1,000.00



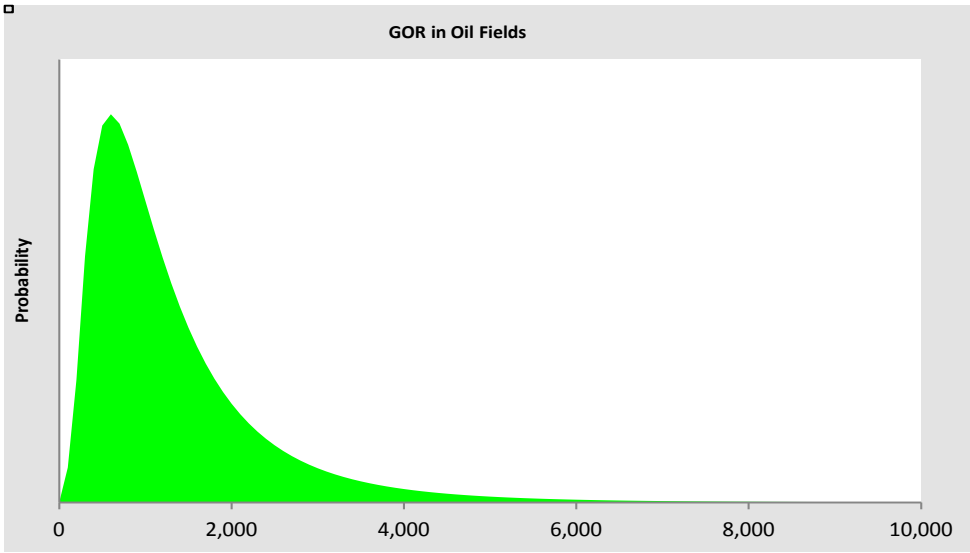
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	28.62	28.73
Median	11.97	11.99
Mode	---	---
Standard Deviation	57.86	57.05
Variance	3,347.63	3,255.20
Skewness	7.11	7.08
Kurtosis	73.70	74.02
Coefficient of Variability	2.02	1.99
Minimum	5.01	5.00
Maximum	974.18	1,000.00
Range Width	969.17	995.00
Mean Standard Error	0.26	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.01	5.00
95%	5.52	5.50
90%	5.90	5.90
85%	6.32	6.33
80%	6.82	6.81
75%	7.36	7.37
70%	8.01	8.01
65%	8.76	8.77
60%	9.65	9.65
55%	10.69	10.71
50%	11.97	11.99
45%	13.51	13.54
40%	15.48	15.48
35%	17.87	17.95
30%	21.07	21.18
25%	25.28	25.58
20%	31.39	31.88
15%	40.95	41.70
10%	58.39	59.24
5%	102.02	101.53
0%	974.18	1,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	1,316.82	1,416.82
Standard Deviation	1,128.19	1,128.19
Selected range is from -Infinity to 9,900.00		100.00 to 10,000.00



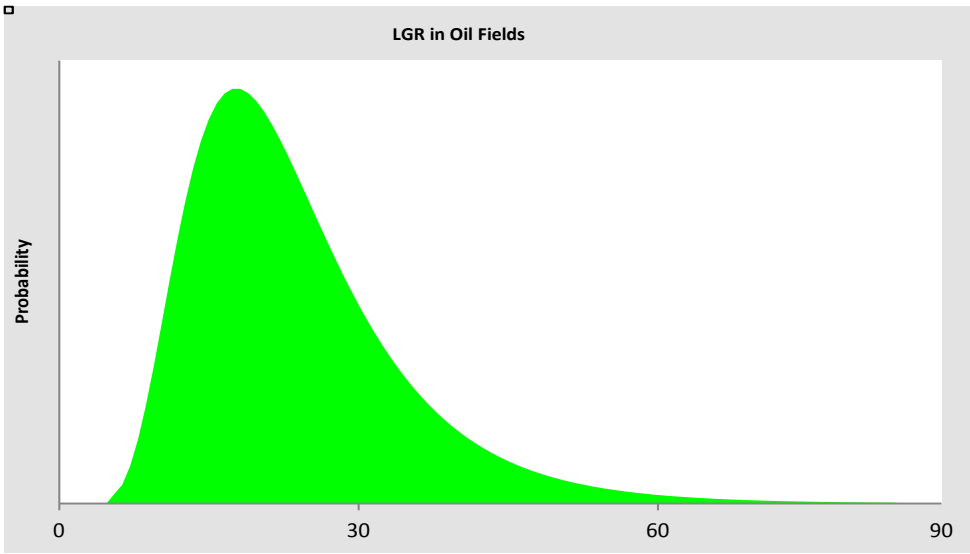
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,411.50	1,405.70
Median	1,101.96	1,099.07
Mode	---	---
Standard Deviation	1,081.97	1,068.74
Variance	1,170,650.88	1,142,204.98
Skewness	2.42	2.38
Kurtosis	11.91	11.58
Coefficient of Variability	0.7665	0.7603
Minimum	153.99	100.00
Maximum	9,997.58	10,000.00
Range Width	9,843.59	9,900.00
Mean Standard Error	4.84	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	153.99	100.00
95%	393.57	395.02
90%	484.20	486.26
85%	562.18	563.28
80%	633.16	635.29
75%	702.31	705.92
70%	770.39	777.26
65%	844.97	850.83
60%	924.86	928.01
55%	1,011.18	1,010.21
50%	1,101.88	1,099.07
45%	1,200.00	1,196.58
40%	1,309.69	1,305.40
35%	1,437.39	1,429.20
30%	1,582.92	1,573.40
25%	1,760.74	1,746.52
20%	1,977.10	1,963.20
15%	2,273.56	2,251.68
10%	2,689.23	2,678.00
5%	3,492.55	3,465.45
0%	9,997.58	10,000.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	22.12	27.12
Standard Deviation	10.44	10.44
Selected range is from -Infinity to 80.00		5.00 to 85.00



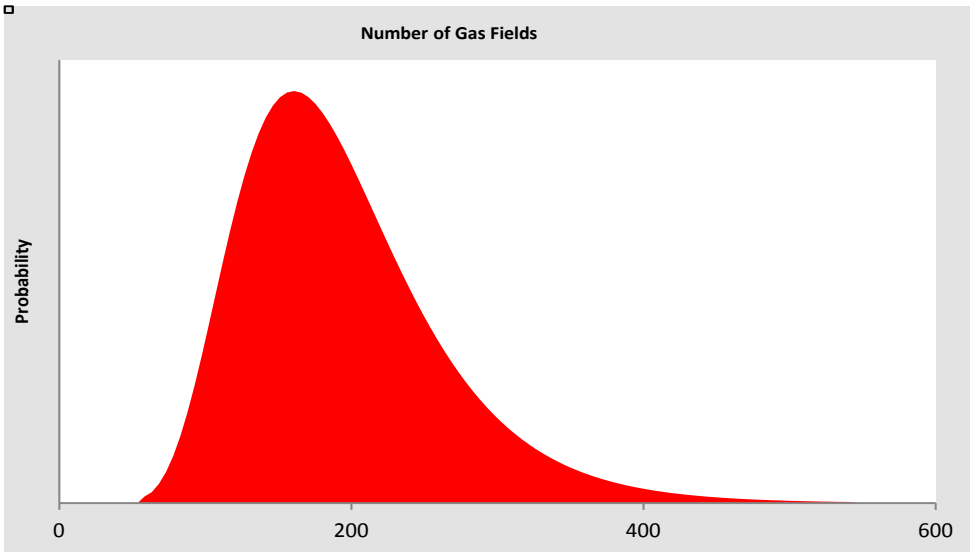
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.03	27.05
Median	25.00	24.99
Mode	---	---
Standard Deviation	10.20	10.21
Variance	103.94	104.25
Skewness	1.32	1.31
Kurtosis	5.61	5.52
Coefficient of Variability	0.3772	0.3775
Minimum	8.41	5.00
Maximum	84.41	85.00
Range Width	76.01	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.41	5.00
95%	14.58	14.56
90%	16.26	16.25
85%	17.54	17.56
80%	18.69	18.71
75%	19.74	19.77
70%	20.77	20.80
65%	21.79	21.82
60%	22.85	22.84
55%	23.91	23.89
50%	25.00	24.99
45%	26.15	26.15
40%	27.40	27.39
35%	28.77	28.76
30%	30.28	30.28
25%	32.00	32.04
20%	34.12	34.14
15%	36.71	36.79
10%	40.41	40.46
5%	46.51	46.66
0%	84.41	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	190.76	191.76
Standard Deviation	70.28	70.28
Selected range is from -Infinity to 539.00		1.00 to 540.00



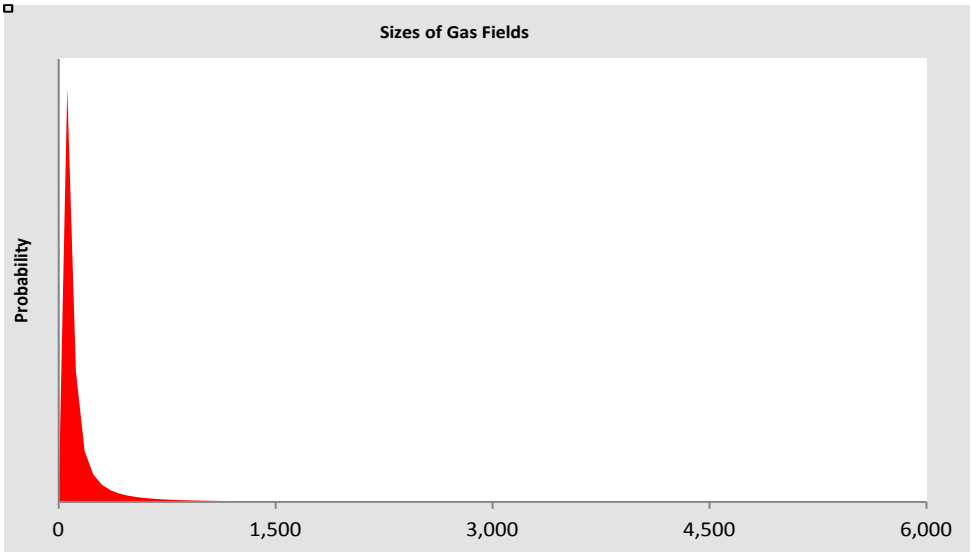
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	191.67	191.35
Median	180.50	179.92
Mode	---	---
Standard Deviation	68.83	69.10
Variance	4,737.32	4,774.26
Skewness	0.9853	1.01
Kurtosis	4.35	4.47
Coefficient of Variability	0.3591	0.3611
Minimum	36.68	1.00
Maximum	539.73	540.00
Range Width	503.05	539.00
Mean Standard Error	0.31	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	36.68	1.00
95%	101.02	100.53
90%	114.57	114.30
85%	124.65	124.65
80%	133.84	133.54
75%	142.00	141.68
70%	149.86	149.41
65%	157.33	156.96
60%	164.91	164.47
55%	172.61	172.08
50%	180.50	179.92
45%	188.50	188.11
40%	197.18	196.82
35%	206.81	206.25
30%	217.41	216.67
25%	229.16	228.50
20%	242.75	242.44
15%	260.09	259.74
10%	283.67	283.24
5%	321.48	321.83
0%	539.73	540.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	152.07	182.07
Standard Deviation	529.17	529.17
Selected range is from -Infinity to 5,970.00		30.00 to 6,000.00



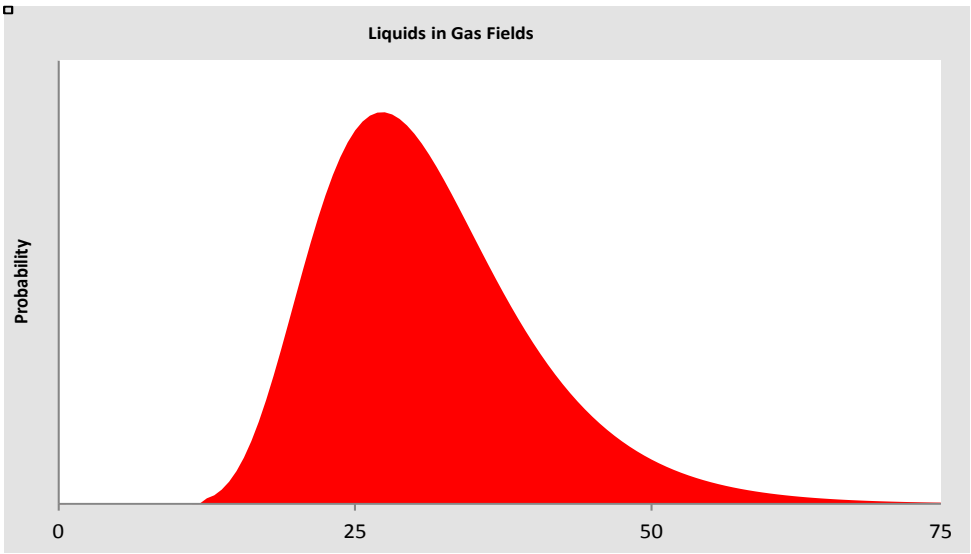
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	173.06	172.40
Median	71.73	71.92
Mode	---	---
Standard Deviation	349.13	342.33
Variance	121,889.05	117,187.16
Skewness	7.16	7.08
Kurtosis	75.14	74.02
Coefficient of Variability	2.02	1.99
Minimum	30.05	30.00
Maximum	5,947.30	6,000.00
Range Width	5,917.25	5,970.00
Mean Standard Error	1.56	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.05	30.00
95%	33.03	33.00
90%	35.38	35.37
85%	38.03	37.96
80%	41.05	40.87
75%	44.35	44.22
70%	48.24	48.08
65%	52.60	52.60
60%	57.82	57.93
55%	64.12	64.27
50%	71.73	71.92
45%	81.13	81.27
40%	92.87	92.90
35%	108.01	107.71
30%	127.35	127.09
25%	154.00	153.45
20%	191.07	191.29
15%	251.84	250.18
10%	360.64	355.47
5%	614.01	609.17
0%	5,947.30	6,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	3
Mean	28.40	31.4
Standard Deviation	9.25	9.25
Selected range is from -Infinity to 72.00		3.00 to 75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.33	31.34
Median	30.02	29.99
Mode	---	---
Standard Deviation	9.06	9.11
Variance	82.07	82.96
Skewness	0.8815	0.8936
Kurtosis	4.06	4.11
Coefficient of Variability	0.2891	0.2906
Minimum	10.60	3.00
Maximum	74.72	75.00
Range Width	64.12	72.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.60	3.00
95%	19.07	19.02
90%	21.01	20.97
85%	22.44	22.43
80%	23.65	23.67
75%	24.78	24.79
70%	25.85	25.85
65%	26.88	26.88
60%	27.90	27.91
55%	28.94	28.93
50%	30.02	29.99
45%	31.10	31.09
40%	32.25	32.25
35%	33.52	33.50
30%	34.91	34.87
25%	36.45	36.42
20%	38.23	38.24
15%	40.38	40.47
10%	43.41	43.49
5%	48.26	48.38
0%	74.72	75.00

End of Assumptions

Simulation started on 9/14/2011 at 10:19 AM
Simulation stopped on 9/14/2011 at 10:39 AM