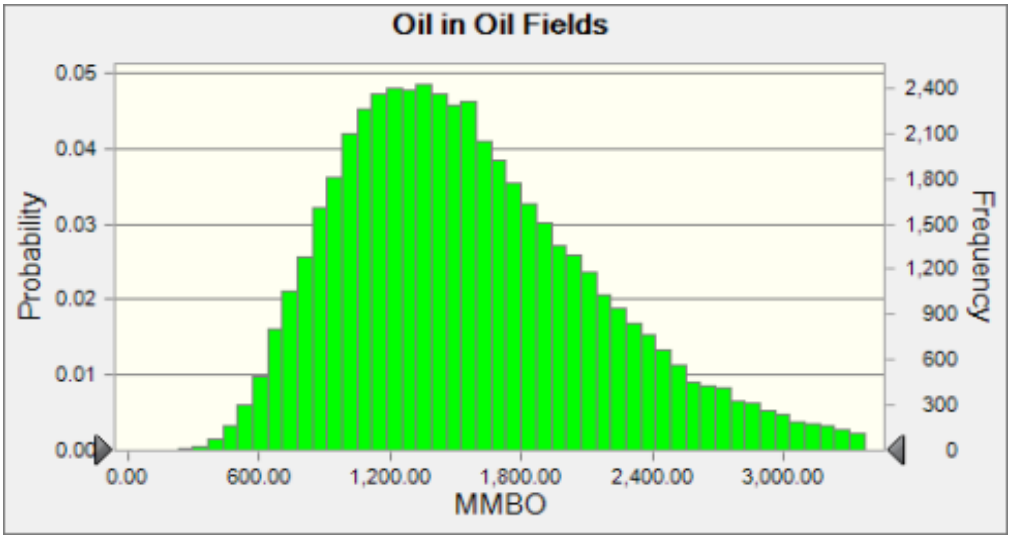
31150102
Jurassic-Tertiary Reservoirs
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 20.78 to 5,271.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.84



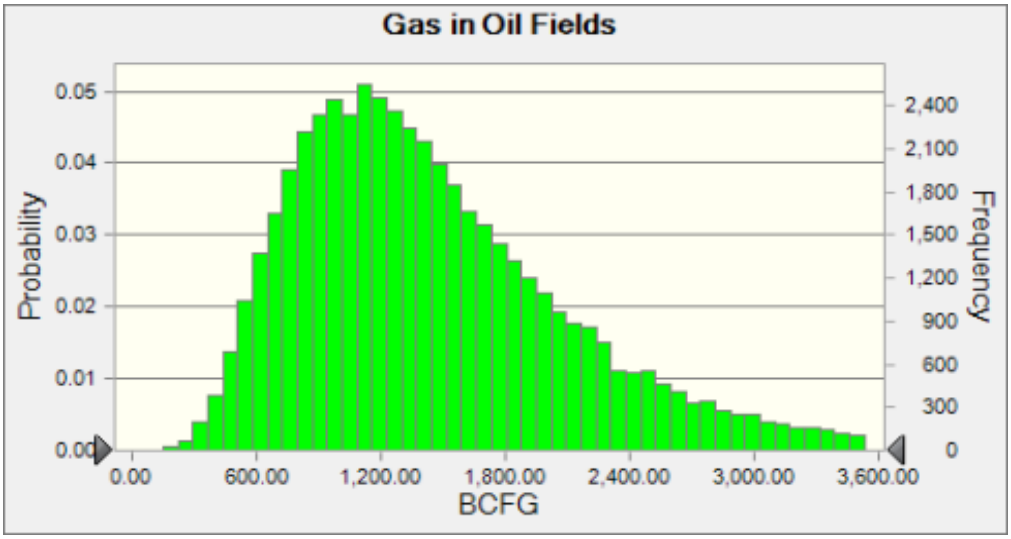
Statistics:	Forecast values
Trials	50,000
Mean	1,589.89
Median	1,488.06
Mode	---
Standard Deviation	636.11
Variance	404,632.11
Skewness	0.9935
Kurtosis	4.44
Coefficient of Variability	0.4001
Minimum	20.78
Maximum	5,271.07
Range Width	5,250.29
Mean Standard Error	2.84

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	20.78
95%	748.34
90%	876.23
85%	973.43
80%	1,055.24
75%	1,129.96
70%	1,201.47
65%	1,273.23
60%	1,343.10
55%	1,414.94
50%	1,488.04
45%	1,561.83
40%	1,641.65
35%	1,730.09
30%	1,827.05
25%	1,939.75
20%	2,068.50
15%	2,224.06
10%	2,430.96
5%	2,785.73
0%	5,271.07

Forecast: Gas in Oil Fields

Summary:
Entire range is from 3.39 to 8,754.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 3.29



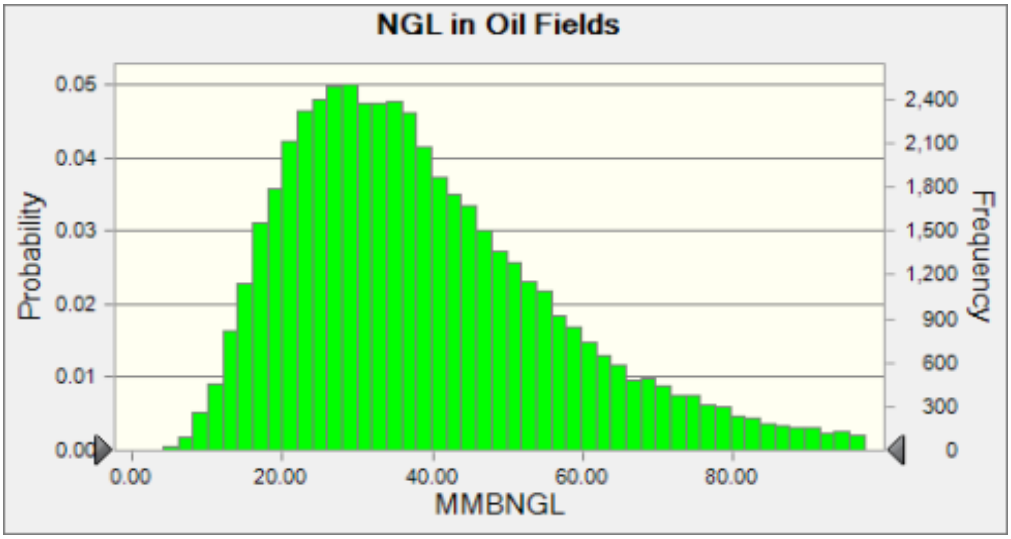
Statistics:	Forecast values
Trials	50,000
Mean	1,476.11
Median	1,327.99
Mode	---
Standard Deviation	735.11
Variance	540,388.45
Skewness	1.48
Kurtosis	7.17
Coefficient of Variability	0.4980
Minimum	3.39
Maximum	8,754.96
Range Width	8,751.57
Mean Standard Error	3.29

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	3.39
95%	585.23
90%	705.49
85%	799.35
80%	881.42
75%	956.64
70%	1,031.83
65%	1,105.27
60%	1,176.44
55%	1,252.44
50%	1,327.99
45%	1,409.79
40%	1,499.84
35%	1,596.08
30%	1,707.20
25%	1,831.87
20%	1,980.64
15%	2,167.63
10%	2,430.45
5%	2,871.39
0%	8,754.96

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.06 to 333.24
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.09



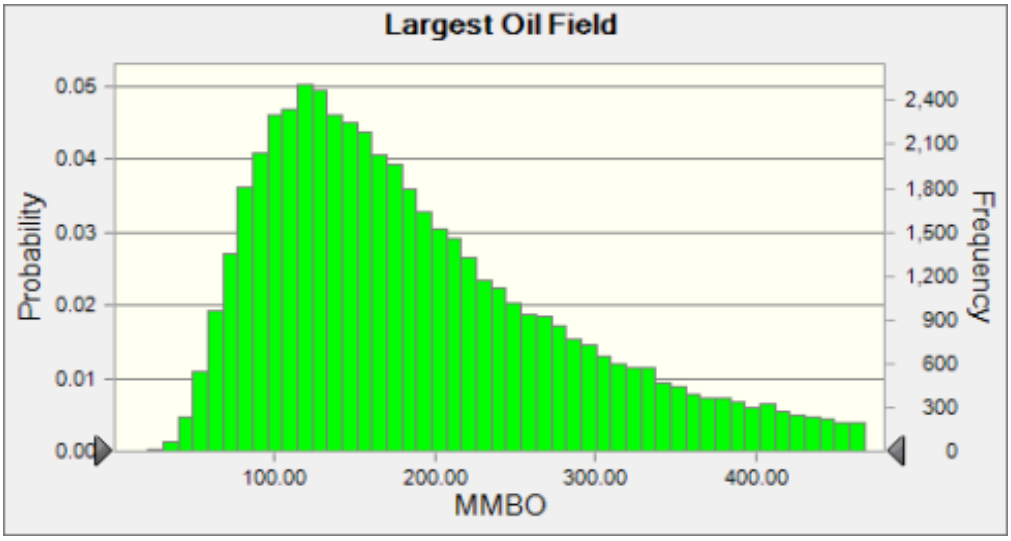
Statistics:	Forecast values
Trials	50,000
Mean	39.88
Median	35.73
Mode	---
Standard Deviation	20.55
Variance	422.42
Skewness	1.72
Kurtosis	9.94
Coefficient of Variability	0.5153
Minimum	0.06
Maximum	333.24
Range Width	333.18
Mean Standard Error	0.09

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.06
95%	15.48
90%	18.69
85%	21.22
80%	23.42
75%	25.50
70%	27.54
65%	29.51
60%	31.56
55%	33.65
50%	35.73
45%	37.89
40%	40.31
35%	43.10
30%	46.07
25%	49.56
20%	53.58
15%	58.65
10%	66.07
5%	78.48
0%	333.24

Forecast: Largest Oil Field

Summary:
Entire range is from 11.92 to 499.96
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.44



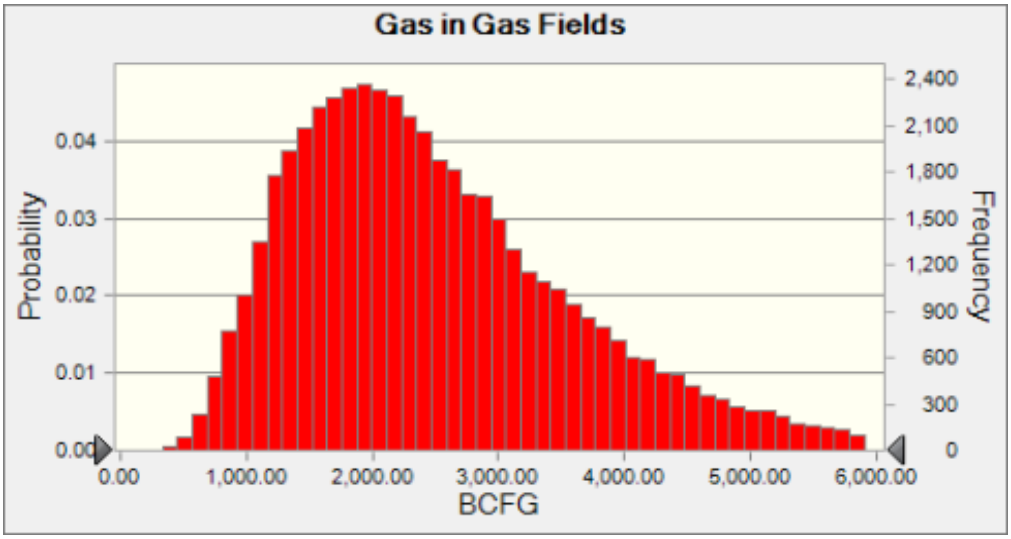
Statistics:	Forecast values
Trials	50,000
Mean	192.03
Median	168.28
Mode	---
Standard Deviation	98.53
Variance	9,708.42
Skewness	0.9663
Kurtosis	3.38
Coefficient of Variability	0.5131
Minimum	11.92
Maximum	499.96
Range Width	488.04
Mean Standard Error	0.44

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	11.92
95%	72.79
90%	86.53
85%	97.63
80%	107.84
75%	117.51
70%	126.78
65%	136.37
60%	146.54
55%	157.22
50%	168.28
45%	180.21
40%	193.46
35%	208.49
30%	225.43
25%	245.71
20%	269.97
15%	299.25
10%	337.97
5%	397.40
0%	499.96

Forecast: Gas in Gas Fields

Summary:
Entire range is from 99.76 to 11,628.04
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.37



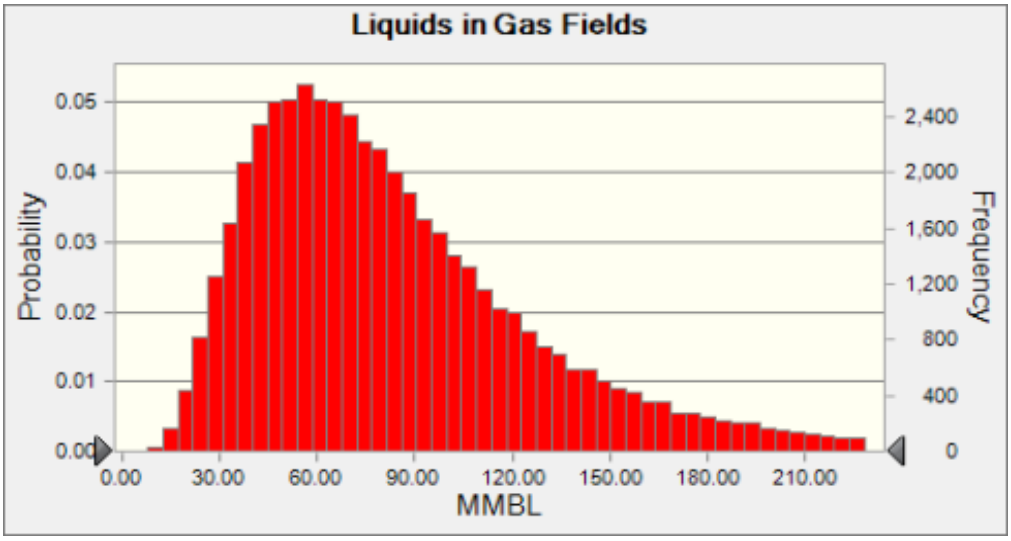
Statistics:	Forecast values
Trials	50,000
Mean	2,544.19
Median	2,309.31
Mode	---
Standard Deviation	1,200.29
Variance	1,440,698.70
Skewness	1.13
Kurtosis	4.76
Coefficient of Variability	0.4718
Minimum	99.76
Maximum	11,628.04
Range Width	11,528.28
Mean Standard Error	5.37

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	99.76
95%	1,037.33
90%	1,236.13
85%	1,393.66
80%	1,535.56
75%	1,667.15
70%	1,796.73
65%	1,921.61
60%	2,046.85
55%	2,176.20
50%	2,309.29
45%	2,451.87
40%	2,607.91
35%	2,777.07
30%	2,958.93
25%	3,173.09
20%	3,436.04
15%	3,746.12
10%	4,169.68
5%	4,850.75
0%	11,628.04

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 3.43 to 868.56
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.23



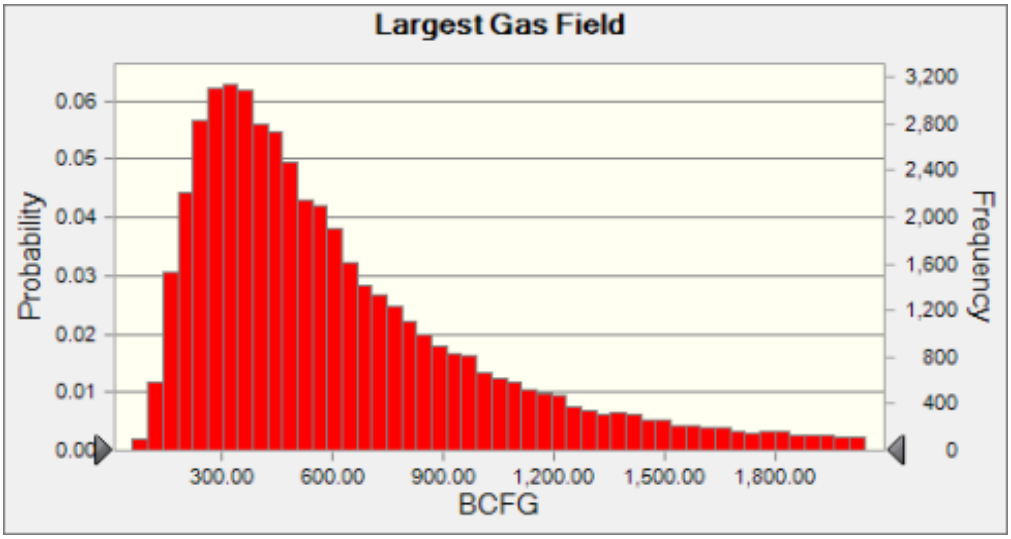
Statistics:	Forecast values
Trials	50,000
Mean	86.01
Median	74.51
Mode	---
Standard Deviation	50.73
Variance	2,573.55
Skewness	2.20
Kurtosis	14.02
Coefficient of Variability	0.5898
Minimum	3.43
Maximum	868.56
Range Width	865.13
Mean Standard Error	0.23

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	3.43
95%	30.25
90%	37.02
85%	42.34
80%	46.97
75%	51.54
70%	55.92
65%	60.38
60%	64.89
55%	69.49
50%	74.51
45%	79.80
40%	85.40
35%	91.57
30%	98.75
25%	106.90
20%	117.02
15%	129.95
10%	148.32
5%	180.50
0%	868.56

Forecast: Largest Gas Field

Summary:
Entire range is from 59.50 to 2,999.68
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.20



Statistics:	Forecast values
Trials	50,000
Mean	663.99
Median	511.59
Mode	---
Standard Deviation	492.28
Variance	242,336.85
Skewness	1.84
Kurtosis	6.84
Coefficient of Variability	0.7414
Minimum	59.50
Maximum	2,999.68
Range Width	2,940.19
Mean Standard Error	2.20

Forecast: Largest Gas Field (continued)

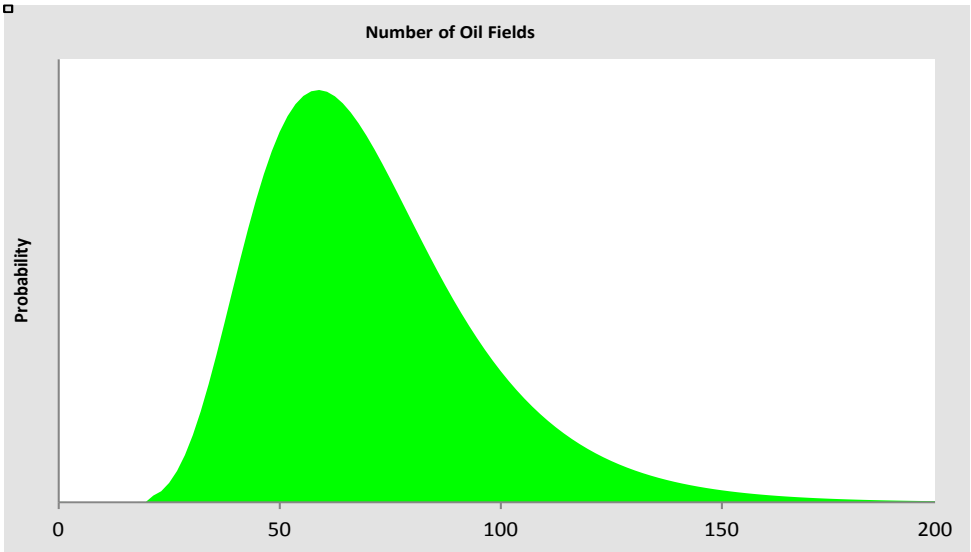
Percentiles:	BCFG
100%	59.50
95%	186.77
90%	229.86
85%	265.12
80%	297.44
75%	329.10
70%	362.09
65%	395.87
60%	431.90
55%	469.73
50%	511.58
45%	558.01
40%	609.92
35%	669.73
30%	743.55
25%	829.36
20%	940.05
15%	1,086.58
10%	1,307.57
5%	1,714.95
0%	2,999.68

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	70.35	71.35
Standard Deviation	25.95	25.95
Selected range is from -Infinity to 199.00		1.00 to 200.00



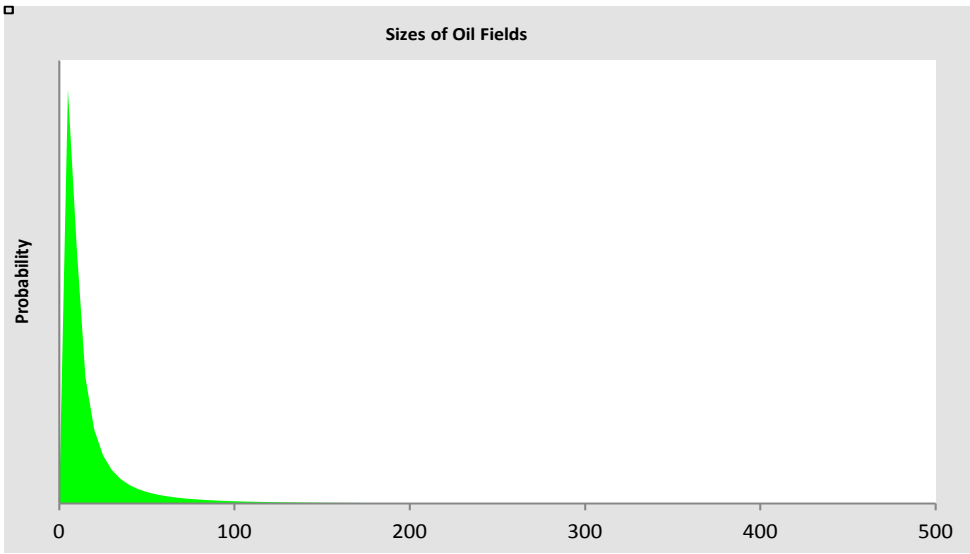
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	71.18	71.20
Median	66.99	66.97
Mode	---	---
Standard Deviation	25.53	25.51
Variance	651.60	650.89
Skewness	1.02	1.02
Kurtosis	4.51	4.47
Coefficient of Variability	0.3586	0.3583
Minimum	14.08	1.00
Maximum	199.39	200.00
Range Width	185.31	199.00
Mean Standard Error	0.11	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	14.08	1.00
95%	37.64	37.67
90%	42.73	42.75
85%	46.54	46.57
80%	49.82	49.85
75%	52.87	52.86
70%	55.67	55.71
65%	58.46	58.49
60%	61.22	61.27
55%	64.04	64.08
50%	66.99	66.97
45%	70.06	70.00
40%	73.22	73.21
35%	76.71	76.69
30%	80.55	80.54
25%	84.77	84.91
20%	89.96	90.05
15%	96.55	96.44
10%	105.03	105.12
5%	119.13	119.38
0%	199.39	200.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	18.09	23.09
Standard Deviation	43.13	43.13
Selected range is from -Infinity to 495.00		5.00 to 500.00



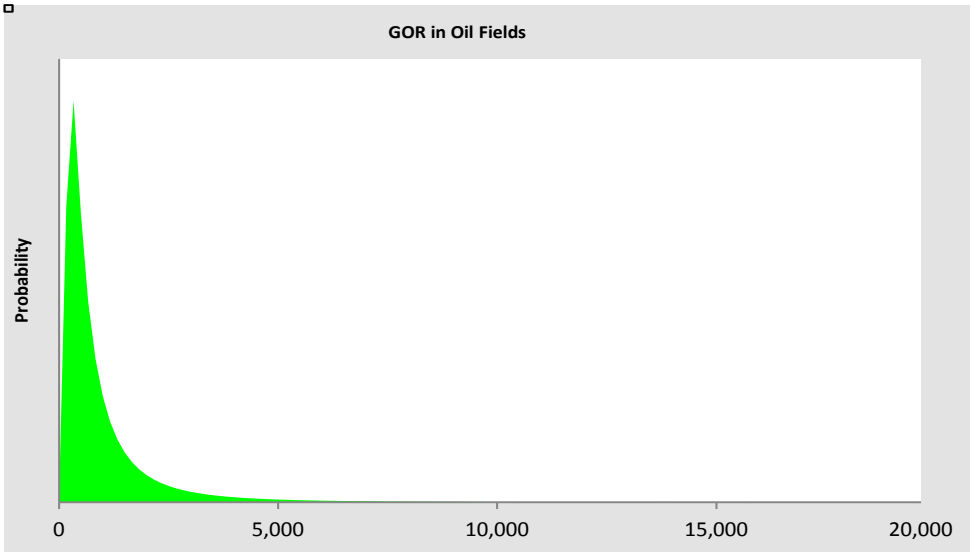
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	22.32	22.33
Median	12.12	11.99
Mode	---	---
Standard Deviation	32.08	32.88
Variance	1,029.16	1,080.99
Skewness	5.54	5.64
Kurtosis	48.59	49.26
Coefficient of Variability	1.44	1.47
Minimum	5.03	5.00
Maximum	498.51	500.00
Range Width	493.48	495.00
Mean Standard Error	0.14	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.03	5.00
95%	5.71	5.72
90%	6.19	6.20
85%	6.67	6.68
80%	7.19	7.19
75%	7.75	7.76
70%	8.38	8.39
65%	9.13	9.11
60%	9.99	9.93
55%	10.95	10.88
50%	12.12	11.99
45%	13.45	13.31
40%	15.04	14.90
35%	17.01	16.88
30%	19.58	19.38
25%	22.94	22.68
20%	27.60	27.24
15%	34.75	34.06
10%	46.38	45.65
5%	71.40	71.70
0%	498.51	500.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	25
Mean	928.00	953
Standard Deviation	1,557.52	1,557.52
Selected range is from -Infinity to 16,975.00		25.00 to 17,000.00



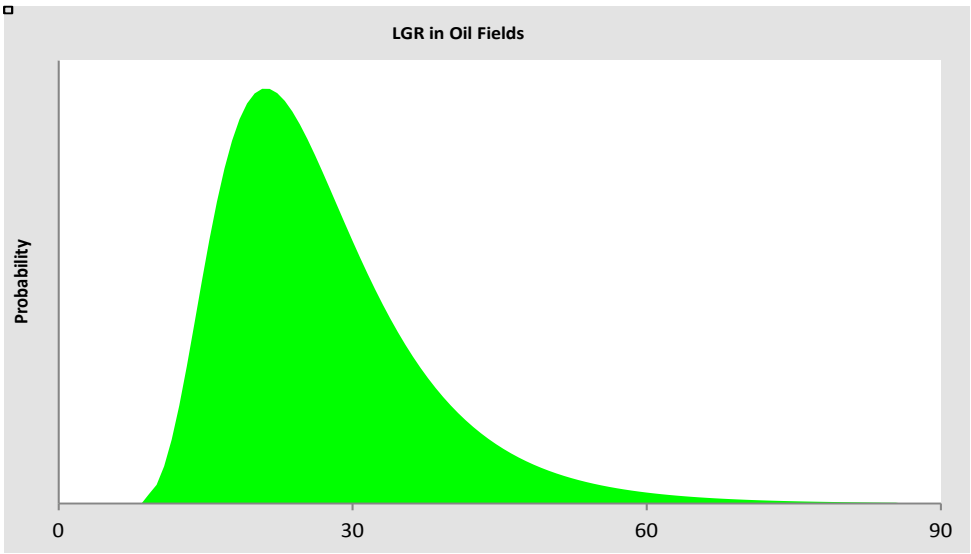
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	930.65	929.15
Median	500.56	499.31
Mode	---	---
Standard Deviation	1,331.83	1,323.74
Variance	1,773,779.65	1,752,278.78
Skewness	4.43	4.37
Kurtosis	32.25	31.28
Coefficient of Variability	1.43	1.42
Minimum	29.14	25.00
Maximum	16,940.49	17,000.00
Range Width	16,911.35	16,975.00
Mean Standard Error	5.96	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	29.14	25.00
95%	95.89	95.75
90%	133.62	132.71
85%	168.71	168.03
80%	205.62	204.19
75%	243.47	242.41
70%	283.90	283.63
65%	329.60	328.77
60%	379.04	378.86
55%	435.82	435.17
50%	500.56	499.31
45%	573.36	573.47
40%	661.56	660.70
35%	763.91	765.43
30%	892.81	894.48
25%	1,063.92	1,059.01
20%	1,276.93	1,278.95
15%	1,591.68	1,594.65
10%	2,102.55	2,105.96
5%	3,176.51	3,178.86
0%	16,940.49	17,000.00

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



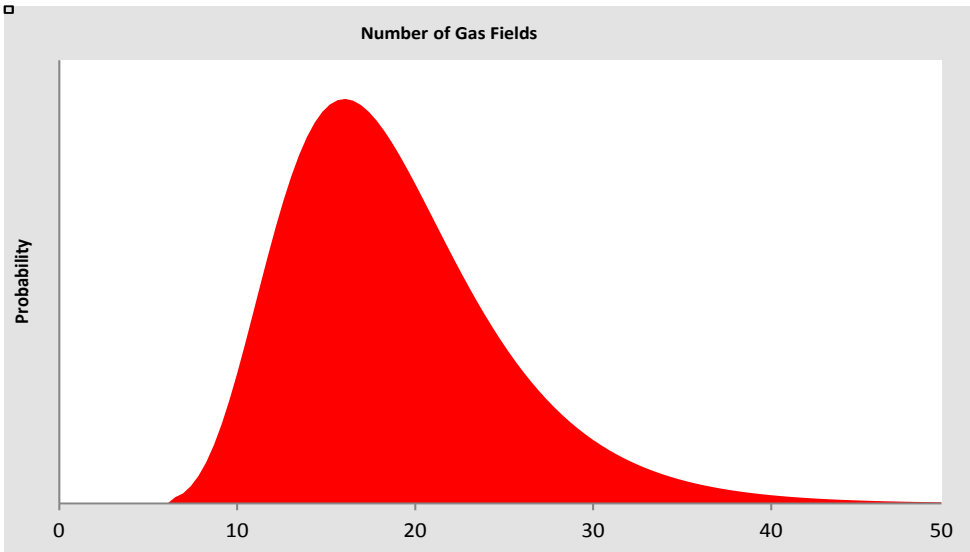
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	27.04	27.05
Median	24.94	24.99
Mode	---	---
Standard Deviation	10.20	10.21
Variance	103.95	104.25
Skewness	1.30	1.31
Kurtosis	5.46	5.52
Coefficient of Variability	0.3771	0.3775
Minimum	7.78	5.00
Maximum	84.86	85.00
Range Width	77.08	80.00
Mean Standard Error	0.05	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	7.78	5.00
95%	14.57	14.56
90%	16.29	16.25
85%	17.58	17.56
80%	18.71	18.71
75%	19.77	19.77
70%	20.81	20.80
65%	21.80	21.82
60%	22.82	22.84
55%	23.86	23.89
50%	24.94	24.99
45%	26.10	26.15
40%	27.32	27.39
35%	28.72	28.76
30%	30.27	30.28
25%	32.05	32.04
20%	34.15	34.14
15%	36.76	36.79
10%	40.44	40.46
5%	46.71	46.66
0%	84.86	85.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	18.03	19.03
Standard Deviation	6.36	6.36
Selected range is from -Infinity to 49.00		1.00 to 50.00



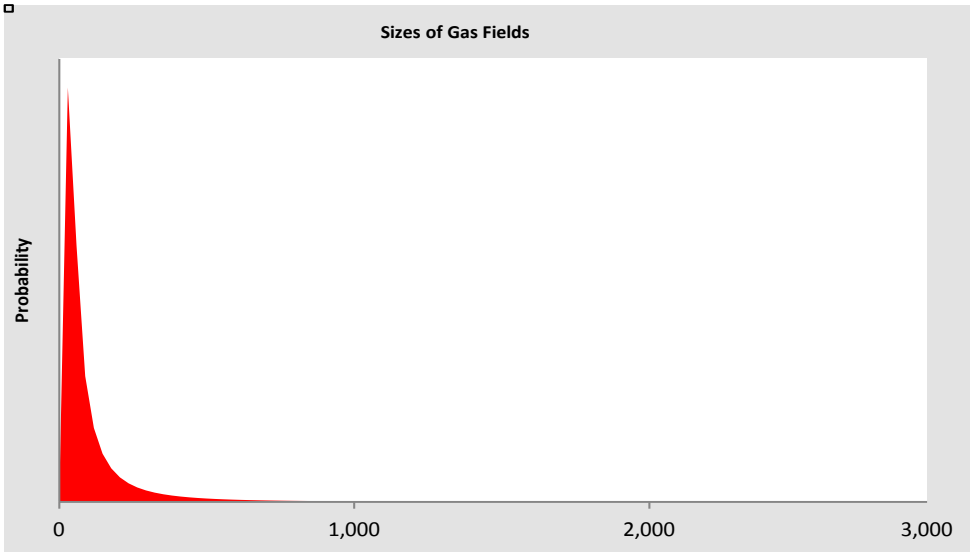
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	19.00	18.99
Median	17.99	17.99
Mode	---	---
Standard Deviation	6.27	6.26
Variance	39.25	39.18
Skewness	0.9684	0.9707
Kurtosis	4.30	4.34
Coefficient of Variability	0.3298	0.3296
Minimum	4.94	1.00
Maximum	49.90	50.00
Range Width	44.96	49.00
Mean Standard Error	0.03	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	4.94	1.00
95%	10.67	10.67
90%	11.96	11.96
85%	12.92	12.92
80%	13.75	13.74
75%	14.51	14.49
70%	15.20	15.20
65%	15.90	15.89
60%	16.57	16.58
55%	17.27	17.28
50%	17.99	17.99
45%	18.72	18.74
40%	19.49	19.53
35%	20.39	20.39
30%	21.32	21.33
25%	22.40	22.40
20%	23.67	23.66
15%	25.27	25.22
10%	27.43	27.32
5%	30.84	30.77
0%	49.90	50.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	108.57	138.57
Standard Deviation	258.80	258.8
Selected range is from -Infinity to 2,970.00		30.00 to 3,000.00



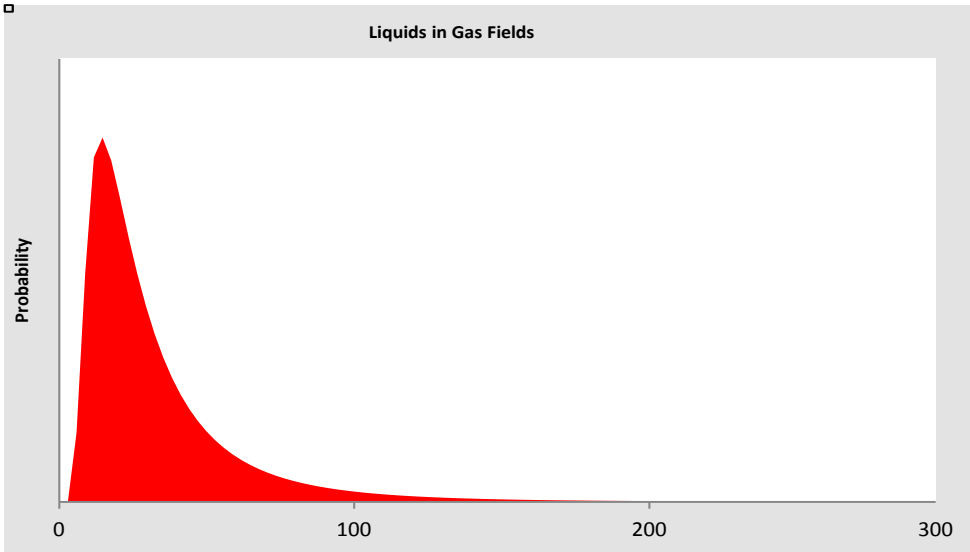
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	132.42	134.00
Median	71.53	71.93
Mode	---	---
Standard Deviation	193.47	197.27
Variance	37,430.17	38,915.80
Skewness	5.67	5.64
Kurtosis	50.57	49.26
Coefficient of Variability	1.46	1.47
Minimum	30.05	30.00
Maximum	2,985.92	3,000.00
Range Width	2,955.87	2,970.00
Mean Standard Error	0.87	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.05	30.00
95%	34.36	34.35
90%	37.20	37.18
85%	40.05	40.06
80%	43.05	43.15
75%	46.39	46.56
70%	50.26	50.36
65%	54.70	54.66
60%	59.43	59.58
55%	64.95	65.27
50%	71.53	71.93
45%	79.03	79.85
40%	88.41	89.42
35%	100.51	101.26
30%	115.51	116.28
25%	134.80	136.06
20%	161.29	163.44
15%	202.10	204.35
10%	271.48	273.92
5%	423.52	430.22
0%	2,985.92	3,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	29.22	34.22
Standard Deviation	31.14	31.14
Selected range is from -Infinity to 295.00		5.00 to 300.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	33.89	33.87
Median	25.03	24.98
Mode	---	---
Standard Deviation	28.80	28.81
Variance	829.15	830.14
Skewness	2.92	2.94
Kurtosis	15.70	16.02
Coefficient of Variability	0.8496	0.8508
Minimum	5.64	5.00
Maximum	298.37	300.00
Range Width	292.72	295.00
Mean Standard Error	0.13	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.64	5.00
95%	9.81	9.77
90%	11.56	11.55
85%	13.12	13.11
80%	14.62	14.60
75%	16.15	16.11
70%	17.67	17.66
65%	19.32	19.29
60%	21.09	21.03
55%	22.96	22.91
50%	25.03	24.98
45%	27.34	27.29
40%	29.92	29.90
35%	32.91	32.93
30%	36.55	36.52
25%	40.92	40.91
20%	46.58	46.52
15%	54.13	54.17
10%	65.69	65.79
5%	88.79	88.13
0%	298.37	300.00

End of Assumptions

Simulation started on 9/28/2011 at 4:04 PM
Simulation stopped on 9/28/2011 at 4:13 PM