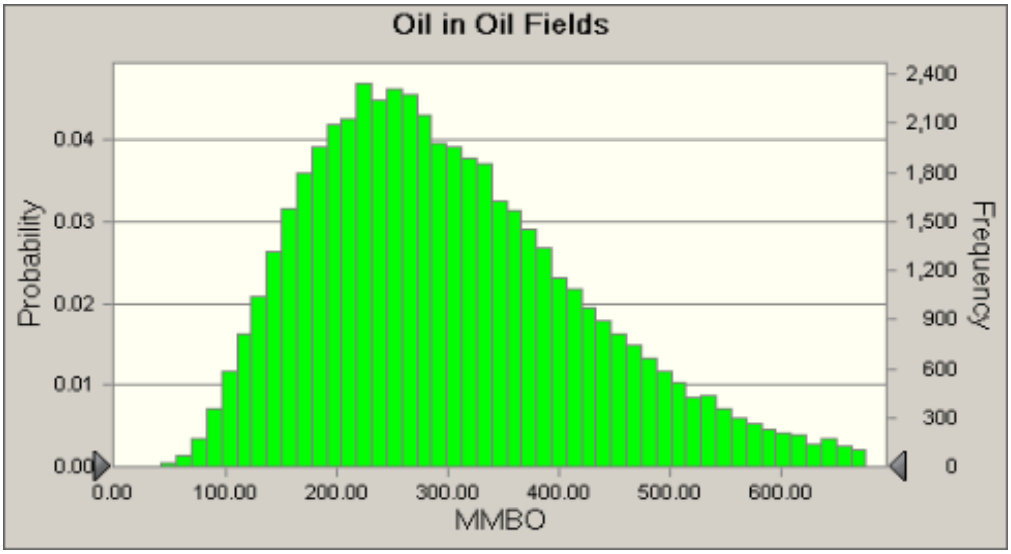
20480201
Bou Dabbous-Cenozoic Structural/Stratigraphic
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 14.99 to 1,255.03
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.59



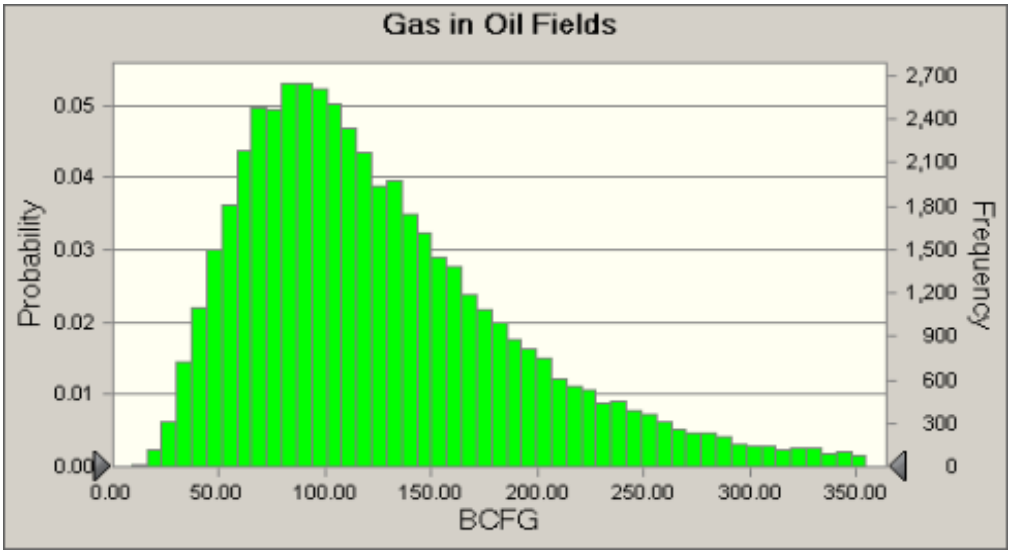
Statistics:	Forecast values
Trials	50,000
Mean	304.74
Median	282.98
Mode	---
Standard Deviation	132.46
Variance	17,546.27
Skewness	0.9800
Kurtosis	4.40
Coefficient of Variability	0.4347
Minimum	14.99
Maximum	1,255.03
Range Width	1,240.05
Mean Standard Error	0.59

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	14.99
95%	129.51
90%	155.48
85%	174.61
80%	192.16
75%	208.07
70%	223.25
65%	237.87
60%	252.63
55%	267.29
50%	282.98
45%	299.79
40%	316.93
35%	335.21
30%	355.63
25%	378.13
20%	405.15
15%	438.35
10%	481.37
5%	551.93
0%	1,255.03

Forecast: Gas in Oil Fields

Summary:
Entire range is from 8.62 to 1,442.22
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.36



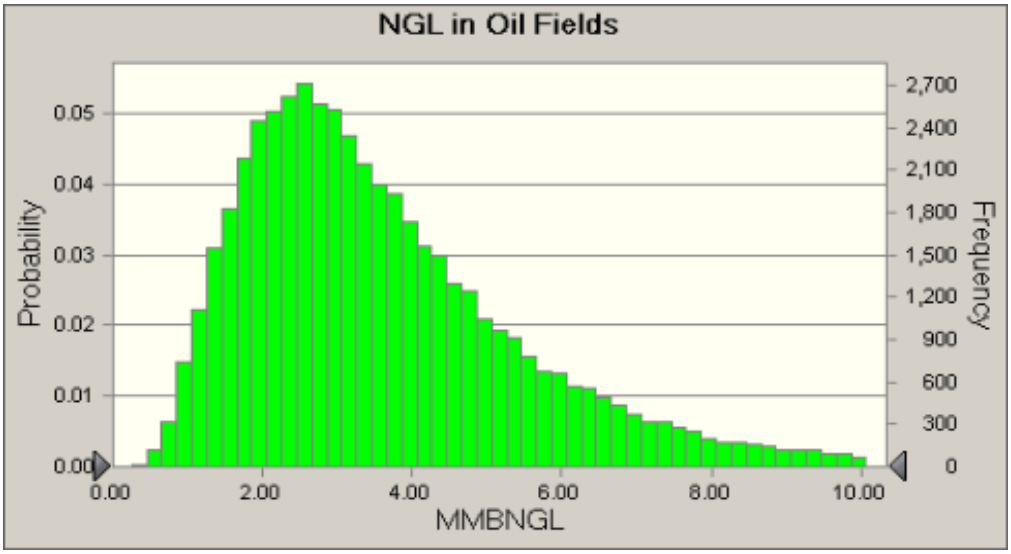
Statistics:	Forecast values
Trials	50,000
Mean	131.29
Median	113.14
Mode	---
Standard Deviation	79.77
Variance	6,362.51
Skewness	2.51
Kurtosis	17.11
Coefficient of Variability	0.6075
Minimum	8.62
Maximum	1,442.22
Range Width	1,433.60
Mean Standard Error	0.36

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	8.62
95%	45.09
90%	55.76
85%	64.29
80%	71.52
75%	78.68
70%	85.41
65%	91.99
60%	98.74
55%	105.72
50%	113.14
45%	121.21
40%	130.19
35%	139.52
30%	150.36
25%	162.77
20%	178.12
15%	197.54
10%	225.70
5%	273.95
0%	1,442.22

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.24 to 40.40
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.01



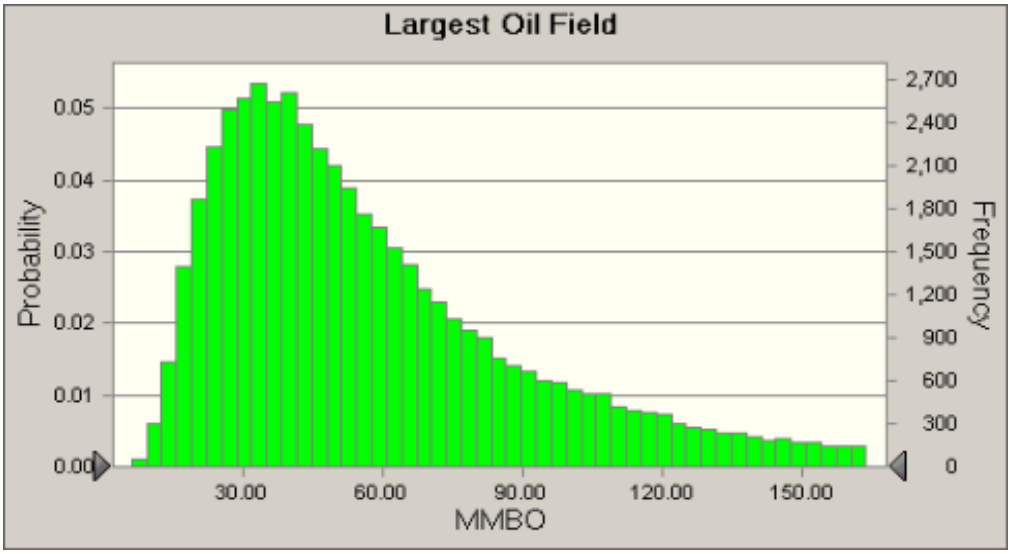
Statistics:	Forecast values
Trials	50,000
Mean	3.72
Median	3.20
Mode	---
Standard Deviation	2.27
Variance	5.15
Skewness	2.54
Kurtosis	17.28
Coefficient of Variability	0.6101
Minimum	0.24
Maximum	40.40
Range Width	40.15
Mean Standard Error	0.01

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.24
95%	1.27
90%	1.58
85%	1.82
80%	2.02
75%	2.23
70%	2.42
65%	2.60
60%	2.79
55%	2.99
50%	3.20
45%	3.43
40%	3.68
35%	3.95
30%	4.26
25%	4.61
20%	5.05
15%	5.60
10%	6.39
5%	7.76
0%	40.40

Forecast: Largest Oil Field

Summary:
Entire range is from 6.18 to 199.98
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.17



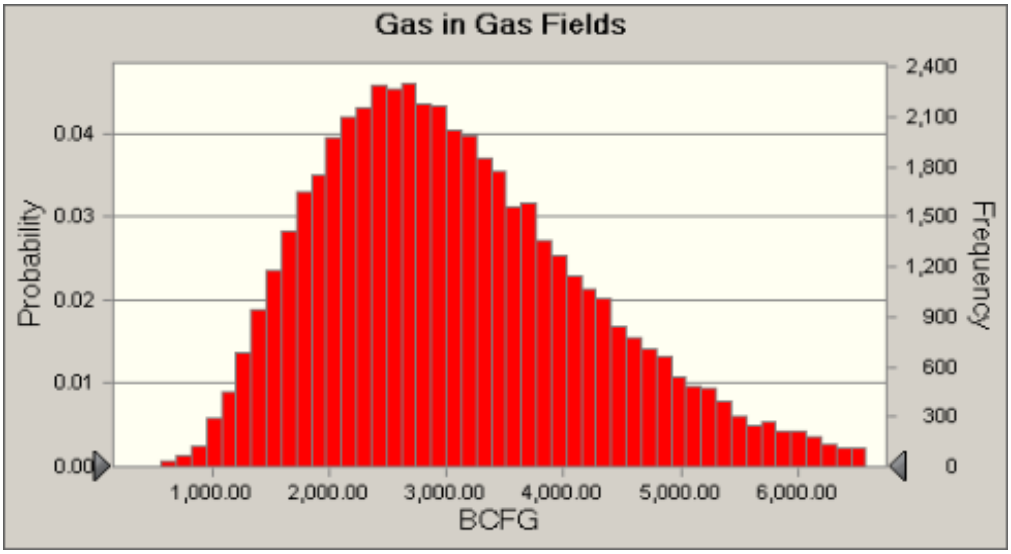
Statistics:	Forecast values
Trials	50,000
Mean	59.73
Median	49.36
Mode	---
Standard Deviation	37.12
Variance	1,378.16
Skewness	1.36
Kurtosis	4.67
Coefficient of Variability	0.6215
Minimum	6.18
Maximum	199.98
Range Width	193.80
Mean Standard Error	0.17

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	6.18
95%	19.08
90%	23.25
85%	26.66
80%	29.91
75%	32.93
70%	35.95
65%	39.13
60%	42.24
55%	45.71
50%	49.36
45%	53.43
40%	57.87
35%	62.92
30%	68.68
25%	75.83
20%	84.52
15%	96.62
10%	112.47
5%	139.33
0%	199.98

Forecast: Gas in Gas Fields

Summary:
Entire range is from 301.82 to 11,913.75
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.54



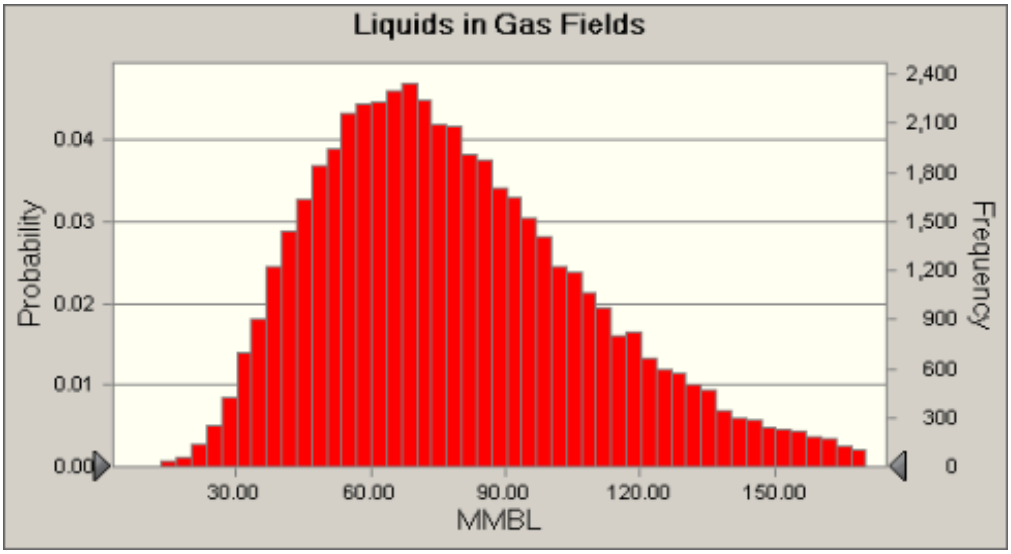
Statistics:	Forecast values
Trials	50,000
Mean	3,118.70
Median	2,933.08
Mode	---
Standard Deviation	1,238.46
Variance	1,533,787.73
Skewness	0.8816
Kurtosis	4.10
Coefficient of Variability	0.3971
Minimum	301.82
Maximum	11,913.75
Range Width	11,611.93
Mean Standard Error	5.54

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	301.82
95%	1,443.37
90%	1,694.15
85%	1,889.67
80%	2,061.44
75%	2,215.31
70%	2,362.69
65%	2,503.12
60%	2,643.23
55%	2,783.73
50%	2,933.06
45%	3,084.74
40%	3,248.14
35%	3,421.48
30%	3,614.83
25%	3,825.62
20%	4,082.21
15%	4,379.40
10%	4,784.53
5%	5,405.47
0%	11,913.75

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 6.76 to 298.29
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.14



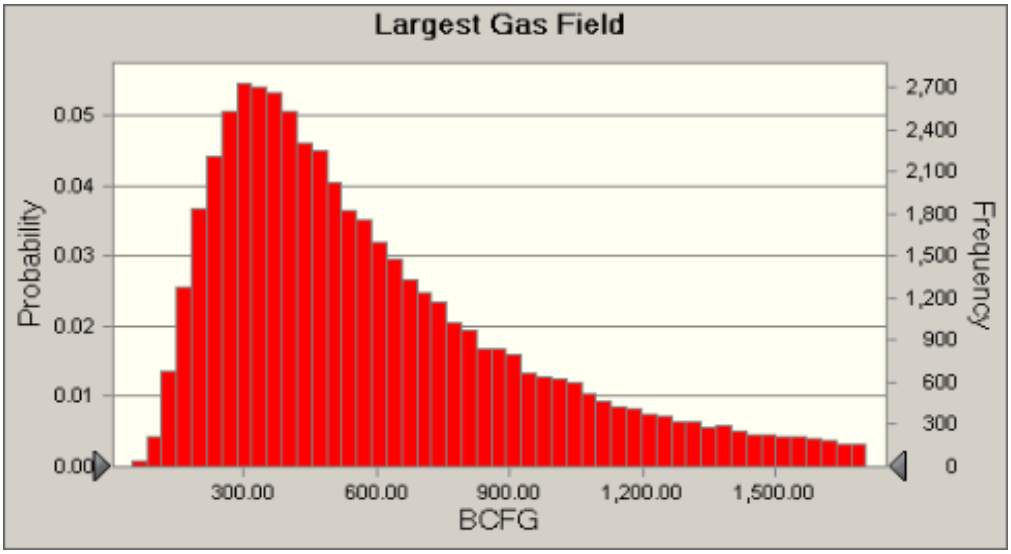
Statistics:	Forecast values
Trials	50,000
Mean	80.03
Median	74.99
Mode	---
Standard Deviation	32.25
Variance	1,039.87
Skewness	0.9128
Kurtosis	4.22
Coefficient of Variability	0.4029
Minimum	6.76
Maximum	298.29
Range Width	291.53
Mean Standard Error	0.14

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	6.76
95%	36.83
90%	43.16
85%	48.10
80%	52.52
75%	56.47
70%	60.25
65%	63.98
60%	67.61
55%	71.24
50%	74.99
45%	79.01
40%	83.27
35%	87.76
30%	92.74
25%	98.27
20%	104.84
15%	112.67
10%	123.36
5%	140.13
0%	298.29

Forecast: Largest Gas Field

Summary:
Entire range is from 48.45 to 1,999.28
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 1.73



Statistics:	Forecast values
Trials	50,000
Mean	616.03
Median	504.21
Mode	---
Standard Deviation	387.94
Variance	150,497.71
Skewness	1.27
Kurtosis	4.25
Coefficient of Variability	0.6297
Minimum	48.45
Maximum	1,999.28
Range Width	1,950.83
Mean Standard Error	1.73

Forecast: Largest Gas Field (continued)

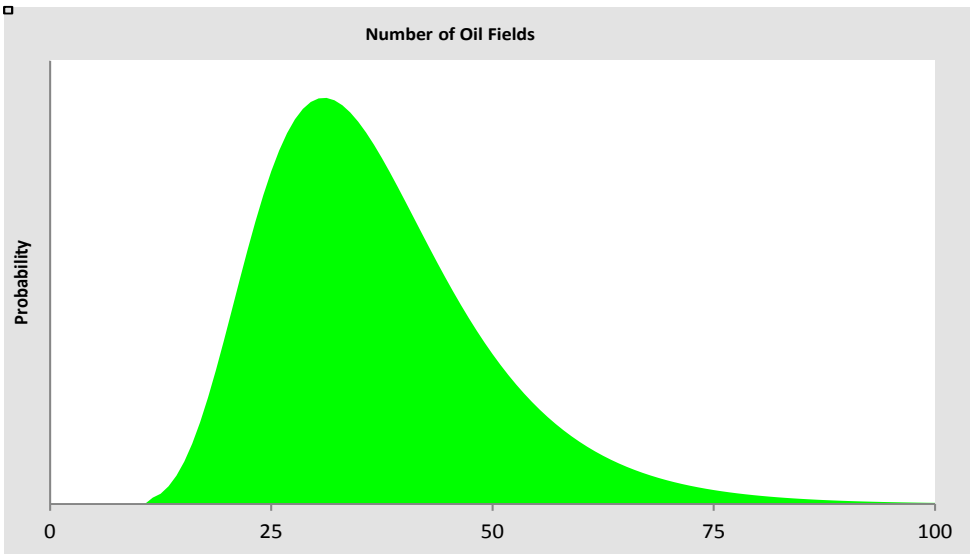
Percentiles:	BCFG
100%	48.45
95%	189.36
90%	232.75
85%	268.02
80%	299.97
75%	330.30
70%	361.84
65%	394.05
60%	428.24
55%	465.51
50%	504.20
45%	548.91
40%	597.46
35%	653.04
30%	718.58
25%	795.11
20%	890.68
15%	1,012.83
10%	1,182.28
5%	1,456.06
0%	1,999.28

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	36.10	37.1
Standard Deviation	12.87	12.87
Selected range is from -Infinity to 99.00		1.00 to 100.00



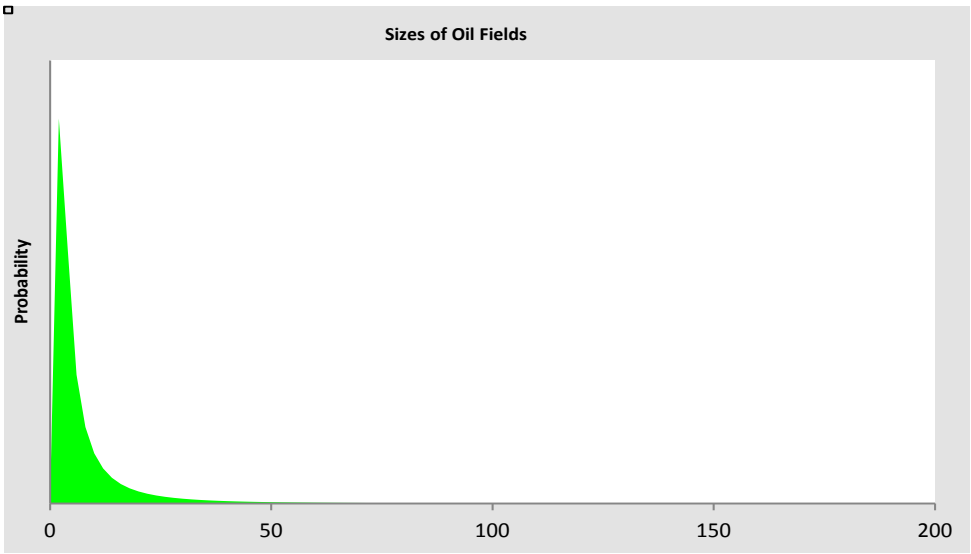
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	37.02	37.02
Median	34.96	34.99
Mode	---	---
Standard Deviation	12.70	12.66
Variance	161.31	160.25
Skewness	0.9757	0.9809
Kurtosis	4.32	4.37
Coefficient of Variability	0.3430	0.3419
Minimum	9.71	1.00
Maximum	99.94	100.00
Range Width	90.23	99.00
Mean Standard Error	0.06	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	9.71	1.00
95%	20.19	20.25
90%	22.75	22.82
85%	24.76	24.75
80%	26.35	26.41
75%	27.86	27.92
70%	29.32	29.35
65%	30.74	30.75
60%	32.14	32.14
55%	33.53	33.54
50%	34.96	34.99
45%	36.46	36.49
40%	38.09	38.09
35%	39.88	39.82
30%	41.77	41.73
25%	43.89	43.90
20%	46.46	46.44
15%	49.63	49.60
10%	54.04	53.87
5%	61.00	60.87
0%	99.94	100.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	7.54	8.54
Standard Deviation	17.38	17.38
Selected range is from -Infinity to 199.00		1.00 to 200.00



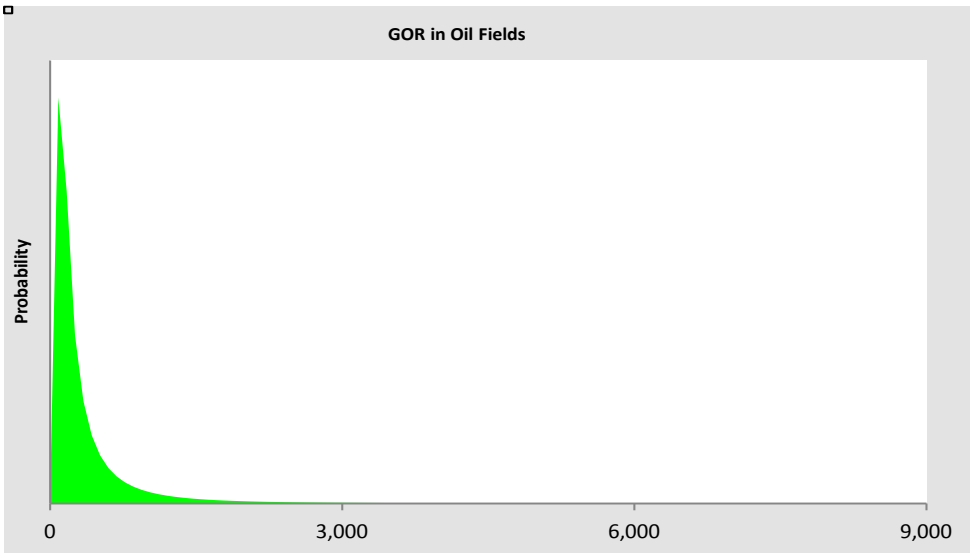
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	8.27	8.23
Median	4.01	3.99
Mode	---	---
Standard Deviation	13.46	13.41
Variance	181.14	179.80
Skewness	5.56	5.52
Kurtosis	48.31	47.32
Coefficient of Variability	1.63	1.63
Minimum	1.01	1.00
Maximum	199.05	200.00
Range Width	198.04	199.00
Mean Standard Error	0.06	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.01	1.00
95%	1.32	1.32
90%	1.53	1.53
85%	1.74	1.73
80%	1.96	1.96
75%	2.20	2.20
70%	2.48	2.47
65%	2.79	2.78
60%	3.14	3.12
55%	3.55	3.53
50%	4.01	3.99
45%	4.55	4.55
40%	5.19	5.22
35%	6.05	6.05
30%	7.14	7.10
25%	8.49	8.47
20%	10.48	10.37
15%	13.45	13.19
10%	18.23	17.97
5%	28.59	28.64
0%	199.05	200.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	100
Mean	343.64	443.64
Standard Deviation	738.37	738.37
Selected range is from -Infinity to 8,400.00		100.00 to 8,500.00



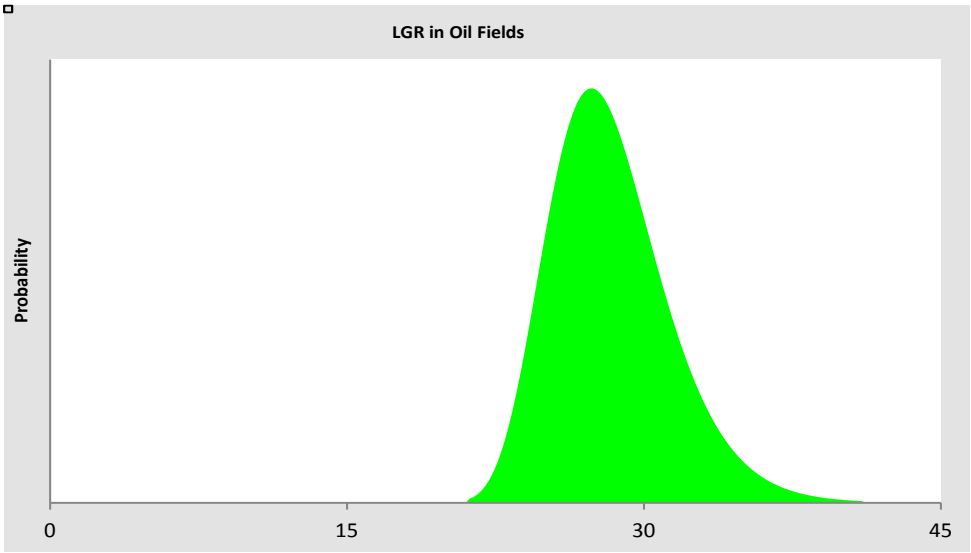
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	429.14	431.00
Median	244.63	244.76
Mode	---	---
Standard Deviation	577.39	583.76
Variance	333,376.26	340,774.76
Skewness	5.31	5.26
Kurtosis	44.85	43.39
Coefficient of Variability	1.35	1.35
Minimum	100.49	100.00
Maximum	8,470.22	8,500.00
Range Width	8,369.72	8,400.00
Mean Standard Error	2.58	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	100.49	100.00
95%	116.78	116.70
90%	126.89	126.91
85%	136.96	137.13
80%	147.75	147.95
75%	159.51	159.72
70%	172.45	172.73
65%	186.98	187.30
60%	203.87	203.81
55%	222.90	222.75
50%	244.62	244.76
45%	271.13	270.71
40%	301.56	301.85
35%	339.32	339.99
30%	388.31	388.01
25%	450.90	450.62
20%	534.86	536.42
15%	660.40	663.12
10%	875.21	875.54
5%	1,331.82	1,343.29
0%	8,470.22	8,500.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	15
Mean	13.33	28.33
Standard Deviation	3.03	3.03
Selected range is from -Infinity to 26.00		15.00 to 41.00



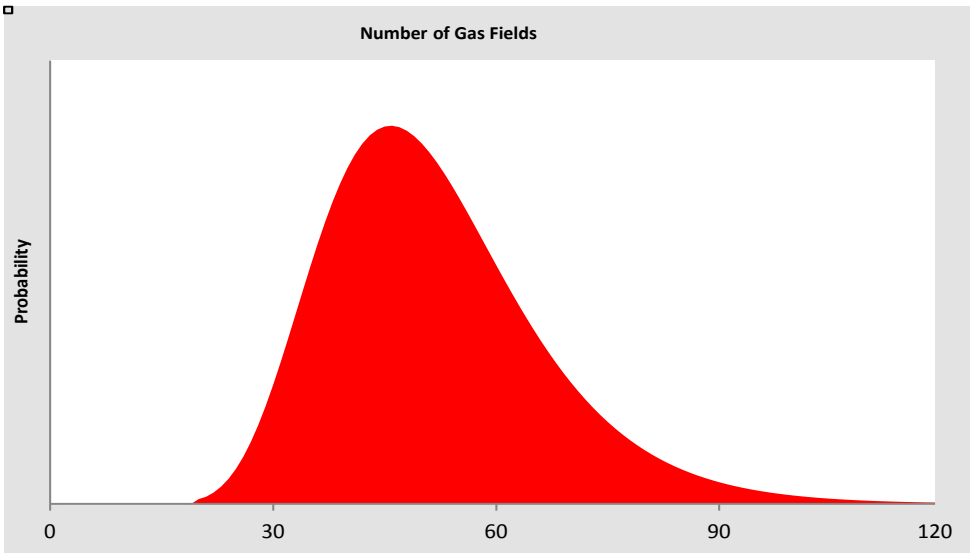
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	28.33	28.32
Median	28.02	28.00
Mode	---	---
Standard Deviation	3.00	3.00
Variance	9.00	8.97
Skewness	0.6008	0.6157
Kurtosis	3.44	3.47
Coefficient of Variability	0.1059	0.1058
Minimum	20.31	15.00
Maximum	40.98	41.00
Range Width	20.67	26.00
Mean Standard Error	0.01	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	20.31	15.00
95%	23.96	23.99
90%	24.75	24.75
85%	25.31	25.30
80%	25.76	25.76
75%	26.17	26.17
70%	26.58	26.56
65%	26.95	26.92
60%	27.30	27.28
55%	27.66	27.64
50%	28.02	28.00
45%	28.39	28.37
40%	28.77	28.76
35%	29.18	29.17
30%	29.63	29.62
25%	30.14	30.12
20%	30.69	30.69
15%	31.40	31.39
10%	32.32	32.31
5%	33.80	33.76
0%	40.98	41.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	51.06	52.06
Standard Deviation	14.97	14.97
Selected range is from -Infinity to 119.00		1.00 to 120.00



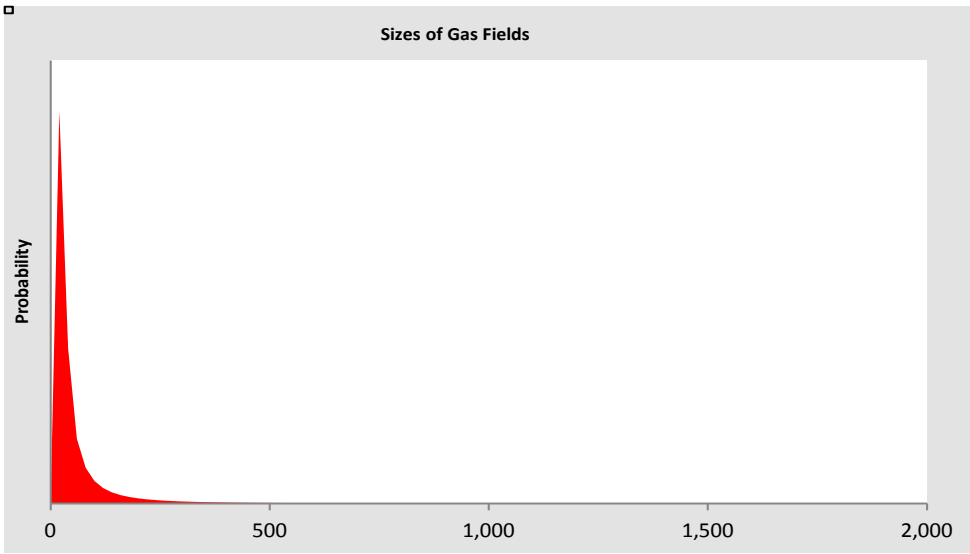
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	51.91	51.98
Median	49.92	49.98
Mode	---	---
Standard Deviation	14.77	14.77
Variance	218.20	218.11
Skewness	0.7834	0.8020
Kurtosis	3.80	3.88
Coefficient of Variability	0.2846	0.2841
Minimum	15.68	1.00
Maximum	119.82	120.00
Range Width	104.13	119.00
Mean Standard Error	0.07	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	15.68	1.00
95%	31.45	31.55
90%	34.80	34.91
85%	37.25	37.38
80%	39.35	39.47
75%	41.24	41.36
70%	43.08	43.14
65%	44.81	44.86
60%	46.53	46.55
55%	48.22	48.25
50%	49.92	49.98
45%	51.67	51.78
40%	53.59	53.67
35%	55.68	55.71
30%	57.89	57.93
25%	60.31	60.43
20%	63.25	63.34
15%	66.90	66.92
10%	71.85	71.69
5%	79.42	79.38
0%	119.82	120.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	6
Mean	57.45	63.45
Standard Deviation	174.11	174.11
Selected range is from -Infinity to 1,994.00		6.00 to 2,000.00



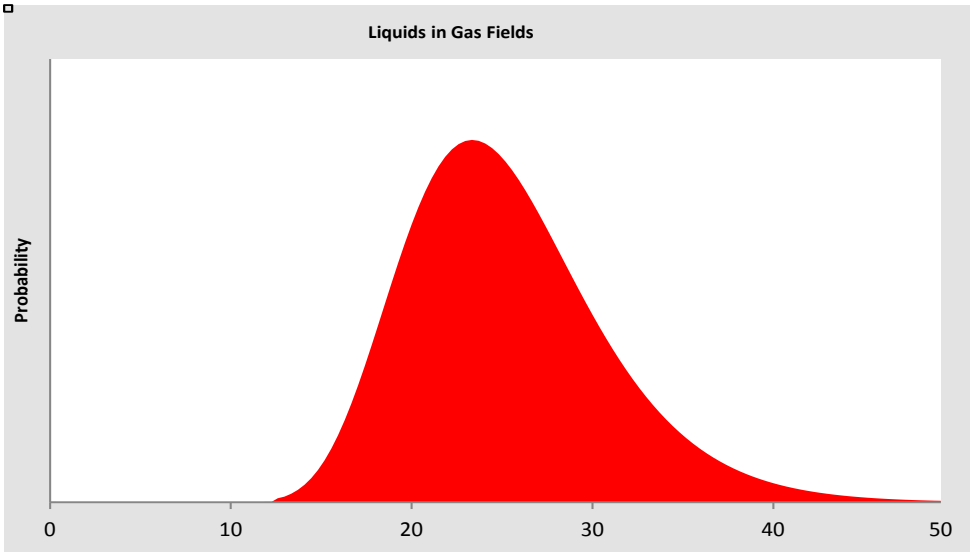
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	59.34	60.26
Median	23.88	23.97
Mode	---	---
Standard Deviation	118.57	120.25
Variance	14,059.82	14,460.71
Skewness	6.77	6.55
Kurtosis	69.54	64.42
Coefficient of Variability	2.00	2.00
Minimum	6.01	6.00
Maximum	1,991.87	2,000.00
Range Width	1,985.86	1,994.00
Mean Standard Error	0.53	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	6.01	6.00
95%	7.45	7.47
90%	8.53	8.55
85%	9.71	9.71
80%	10.97	10.99
75%	12.43	12.43
70%	14.06	14.09
65%	15.90	15.99
60%	18.16	18.22
55%	20.79	20.84
50%	23.88	23.97
45%	27.64	27.75
40%	32.26	32.42
35%	38.08	38.29
30%	45.53	45.89
25%	55.82	56.12
20%	70.23	70.60
15%	92.23	92.82
10%	130.14	131.84
5%	216.49	223.53
0%	1,991.87	2,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	3
Mean	22.67	25.67
Standard Deviation	5.66	5.66
Selected range is from -Infinity to 47.00		3.00 to 50.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	25.66	25.65
Median	25.02	24.99
Mode	---	---
Standard Deviation	5.57	5.59
Variance	31.00	31.23
Skewness	0.6787	0.6785
Kurtosis	3.62	3.60
Coefficient of Variability	0.2169	0.2179
Minimum	11.06	3.00
Maximum	49.99	50.00
Range Width	38.93	47.00
Mean Standard Error	0.02	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	11.06	3.00
95%	17.74	17.69
90%	19.08	19.06
85%	20.11	20.05
80%	20.94	20.89
75%	21.67	21.64
70%	22.38	22.34
65%	23.05	23.01
60%	23.71	23.67
55%	24.37	24.33
50%	25.02	24.99
45%	25.73	25.68
40%	26.44	26.40
35%	27.20	27.17
30%	28.02	28.01
25%	28.93	28.95
20%	30.02	30.03
15%	31.30	31.35
10%	33.06	33.10
5%	35.87	35.88
0%	49.99	50.00

End of Assumptions

Simulation started on 12/30/2010 at 10:02 AM
Simulation stopped on 12/30/2010 at 10:47 AM