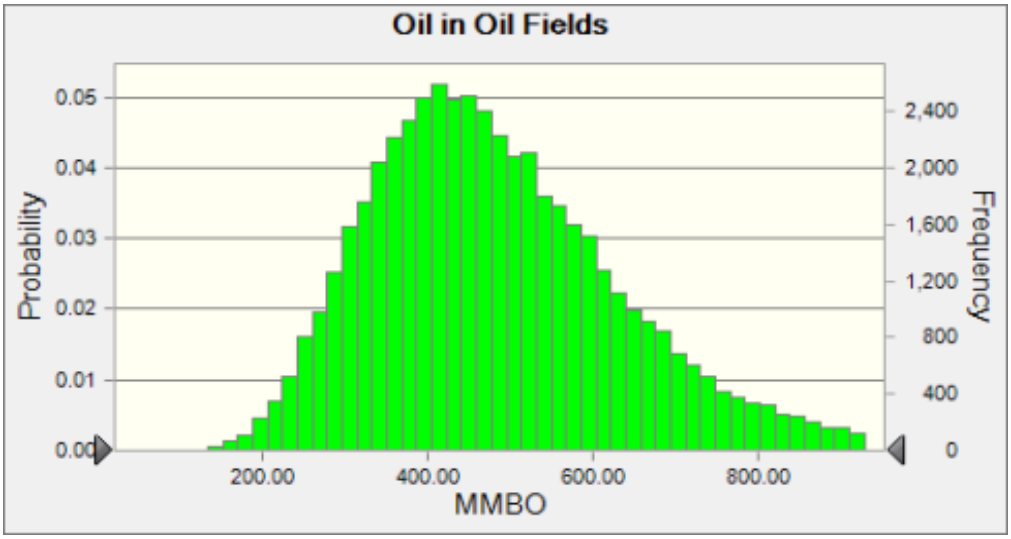
30310101
Taranaki Basin
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 15.56 to 1,349.60
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.71



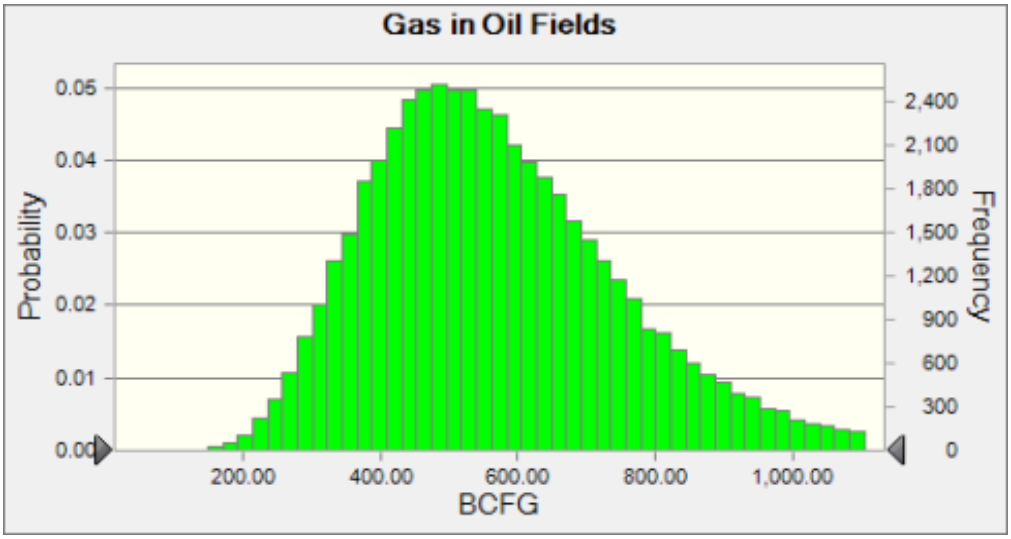
Statistics:	Forecast values
Trials	50,000
Mean	486.86
Median	464.33
Mode	---
Standard Deviation	158.05
Variance	24,980.31
Skewness	0.8410
Kurtosis	4.04
Coefficient of Variability	0.3246
Minimum	15.56
Maximum	1,349.60
Range Width	1,334.04
Mean Standard Error	0.71

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	15.56
95%	268.94
90%	304.92
85%	331.53
80%	353.87
75%	373.84
70%	392.77
65%	410.71
60%	428.41
55%	446.45
50%	464.33
45%	483.80
40%	504.43
35%	525.86
30%	550.20
25%	576.61
20%	606.73
15%	645.62
10%	695.53
5%	781.09
0%	1,349.60

Forecast: Gas in Oil Fields

Summary:
Entire range is from 16.99 to 1,768.07
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.85



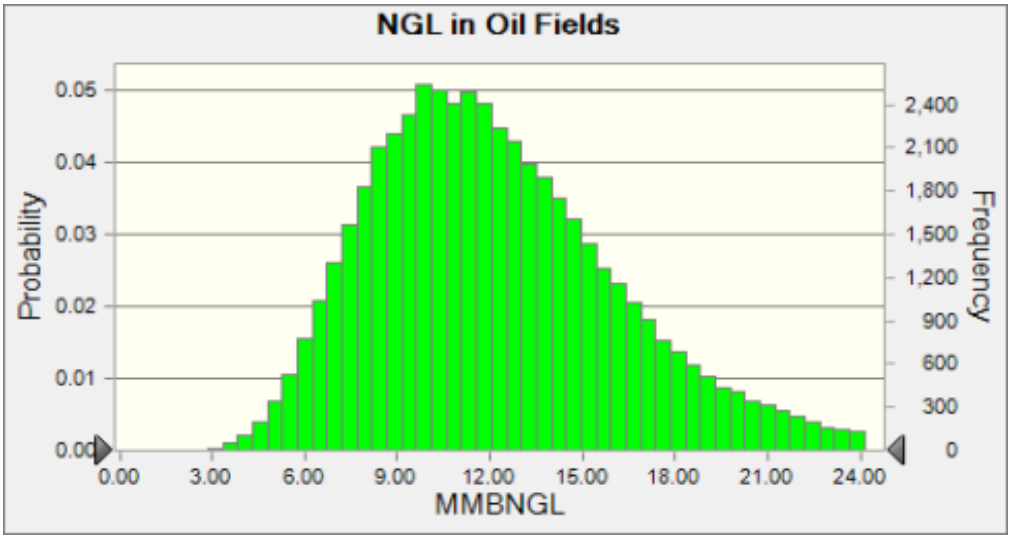
Statistics:	Forecast values
Trials	50,000
Mean	572.22
Median	545.90
Mode	---
Standard Deviation	189.89
Variance	36,057.52
Skewness	0.8413
Kurtosis	4.06
Coefficient of Variability	0.3318
Minimum	16.99
Maximum	1,768.07
Range Width	1,751.08
Mean Standard Error	0.85

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	16.99
95%	309.75
90%	353.55
85%	384.97
80%	412.16
75%	436.33
70%	458.83
65%	480.31
60%	501.77
55%	523.39
50%	545.89
45%	569.31
40%	592.92
35%	620.21
30%	648.52
25%	680.10
20%	717.33
15%	762.09
10%	824.63
5%	924.82
0%	1,768.07

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.26 to 40.25
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.02



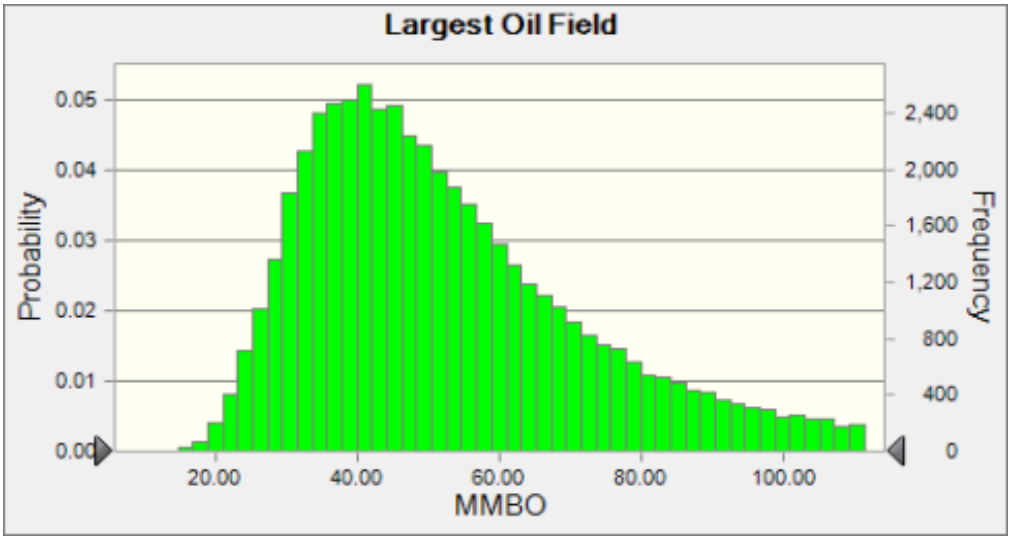
Statistics:	Forecast values
Trials	50,000
Mean	12.28
Median	11.69
Mode	---
Standard Deviation	4.23
Variance	17.89
Skewness	0.8514
Kurtosis	4.08
Coefficient of Variability	0.3445
Minimum	0.26
Maximum	40.25
Range Width	40.00
Mean Standard Error	0.02

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	0.26
95%	6.47
90%	7.40
85%	8.11
80%	8.69
75%	9.24
70%	9.74
65%	10.21
60%	10.71
55%	11.19
50%	11.69
45%	12.20
40%	12.75
35%	13.34
30%	13.97
25%	14.67
20%	15.50
15%	16.52
10%	17.88
5%	20.20
0%	40.25

Forecast: Largest Oil Field

Summary:
Entire range is from 8.19 to 124.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.09



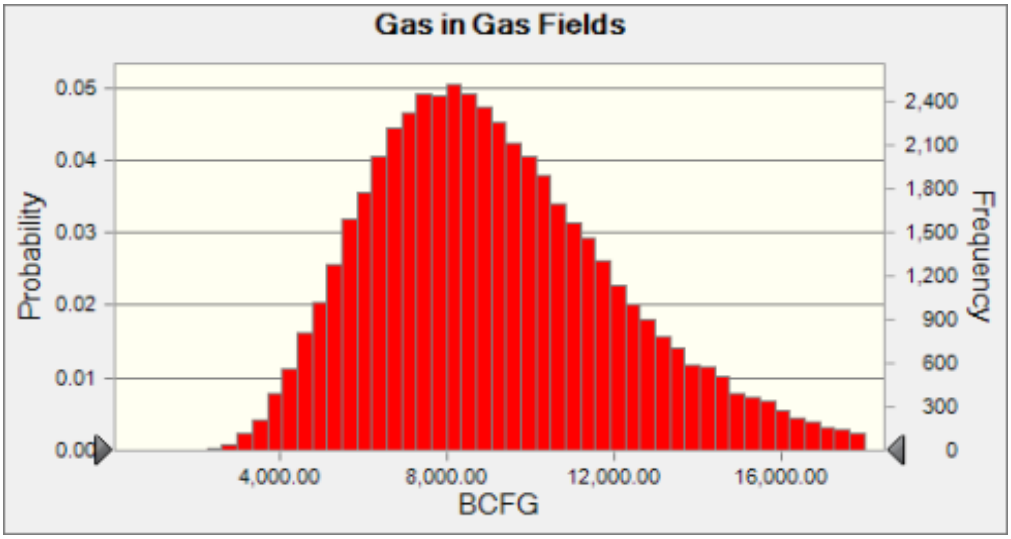
Statistics:	Forecast values
Trials	50,000
Mean	53.02
Median	48.37
Mode	---
Standard Deviation	20.88
Variance	436.18
Skewness	1.01
Kurtosis	3.72
Coefficient of Variability	0.3939
Minimum	8.19
Maximum	124.99
Range Width	116.80
Mean Standard Error	0.09

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	8.19
95%	27.29
90%	30.71
85%	33.25
80%	35.46
75%	37.59
70%	39.73
65%	41.71
60%	43.89
55%	46.02
50%	48.37
45%	50.85
40%	53.58
35%	56.53
30%	59.93
25%	63.86
20%	68.62
15%	74.73
10%	83.10
5%	96.09
0%	124.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 284.10 to 25,890.78
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 13.97



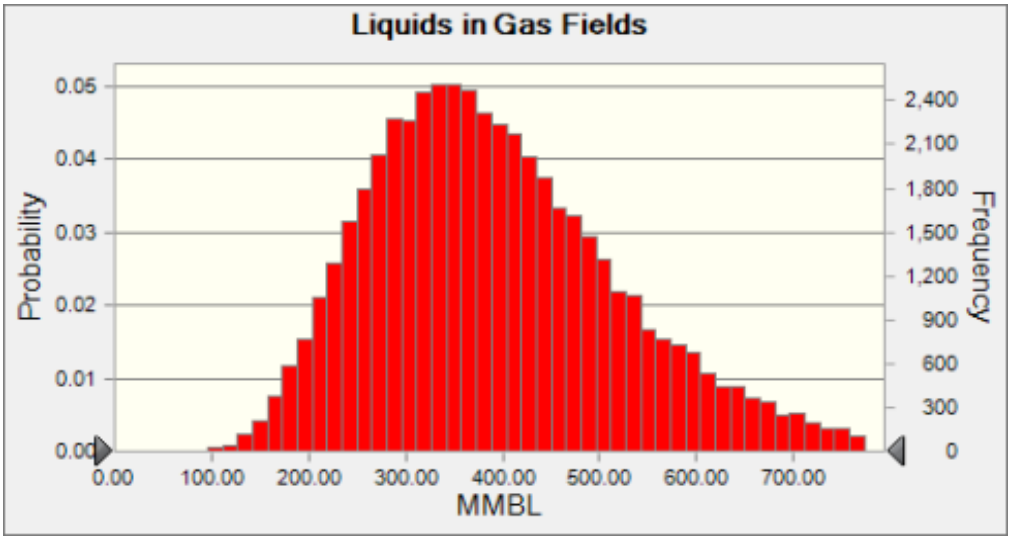
Statistics:	Forecast values
Trials	50,000
Mean	9,224.52
Median	8,796.76
Mode	---
Standard Deviation	3,123.14
Variance	9,754,033.29
Skewness	0.8061
Kurtosis	3.90
Coefficient of Variability	0.3386
Minimum	284.10
Maximum	25,890.78
Range Width	25,606.68
Mean Standard Error	13.97

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	284.10
95%	4,894.86
90%	5,609.01
85%	6,130.15
80%	6,569.82
75%	6,970.19
70%	7,350.06
65%	7,714.46
60%	8,076.69
55%	8,430.02
50%	8,796.71
45%	9,176.19
40%	9,583.76
35%	10,014.97
30%	10,486.09
25%	11,025.79
20%	11,630.32
15%	12,392.76
10%	13,424.61
5%	15,035.58
0%	25,890.78

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 13.05 to 1,130.34
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 0.60



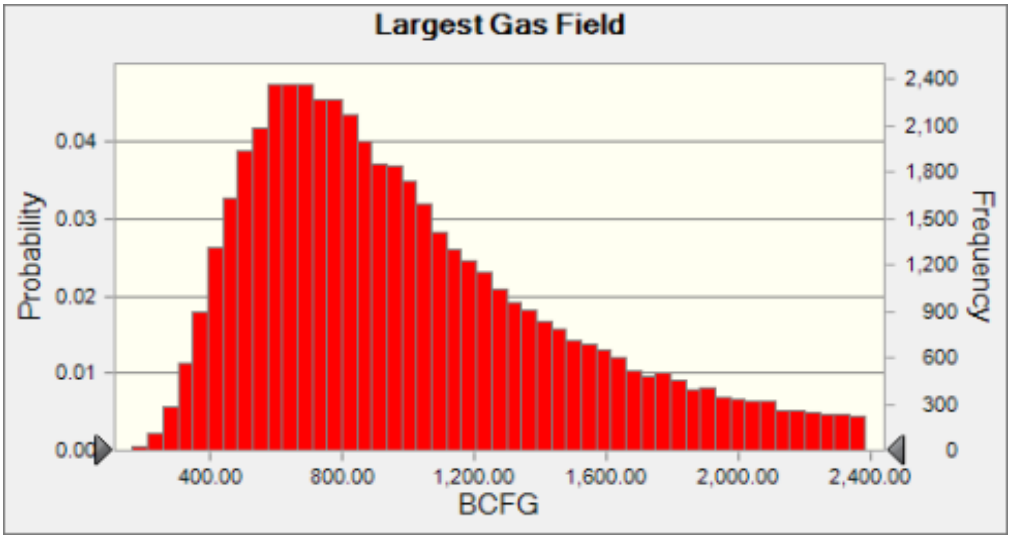
Statistics:	Forecast values
Trials	50,000
Mean	395.66
Median	376.89
Mode	---
Standard Deviation	134.88
Variance	18,193.74
Skewness	0.8081
Kurtosis	3.89
Coefficient of Variability	0.3409
Minimum	13.05
Maximum	1,130.34
Range Width	1,117.29
Mean Standard Error	0.60

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	13.05
95%	208.92
90%	239.62
85%	261.99
80%	281.15
75%	298.18
70%	314.89
65%	330.28
60%	345.79
55%	361.31
50%	376.88
45%	393.71
40%	411.43
35%	429.58
30%	449.99
25%	473.49
20%	499.23
15%	532.36
10%	577.53
5%	646.43
0%	1,130.34

Forecast: Largest Gas Field

Summary:
Entire range is from 165.42 to 2,499.97
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.18



Statistics:	Forecast values
Trials	50,000
Mean	1,011.33
Median	895.68
Mode	---
Standard Deviation	488.15
Variance	238,291.32
Skewness	0.9309
Kurtosis	3.28
Coefficient of Variability	0.4827
Minimum	165.42
Maximum	2,499.97
Range Width	2,334.55
Mean Standard Error	2.18

Forecast: Largest Gas Field (continued)

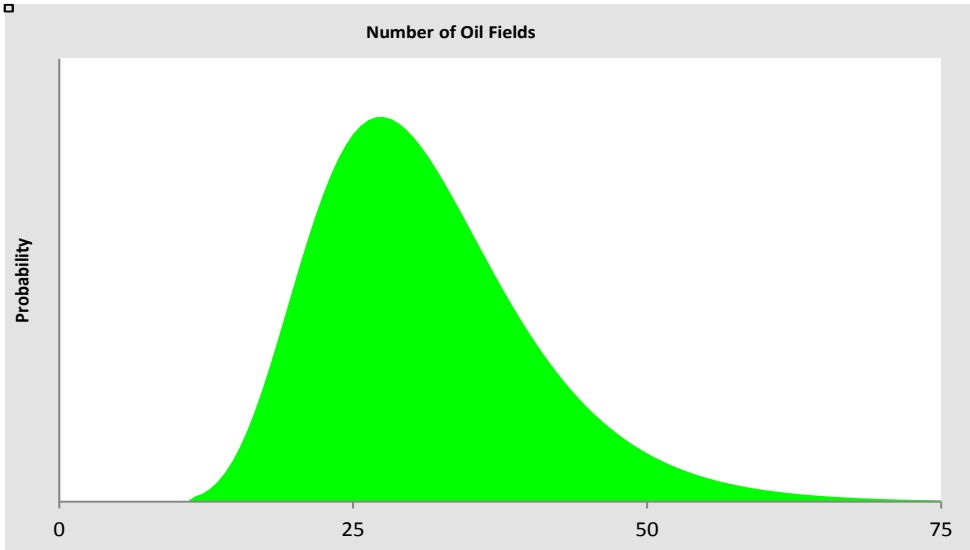
Percentiles:	BCFG
100%	165.42
95%	413.69
90%	485.51
85%	542.85
80%	594.12
75%	642.03
70%	688.93
65%	737.83
60%	786.62
55%	839.17
50%	895.68
45%	956.25
40%	1,020.39
35%	1,092.56
30%	1,179.57
25%	1,278.76
20%	1,399.27
15%	1,549.61
10%	1,747.33
5%	2,030.95
0%	2,499.97

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	30.36	31.36
Standard Deviation	9.42	9.42
Selected range is from -Infinity to 74.00		1.00 to 75.00



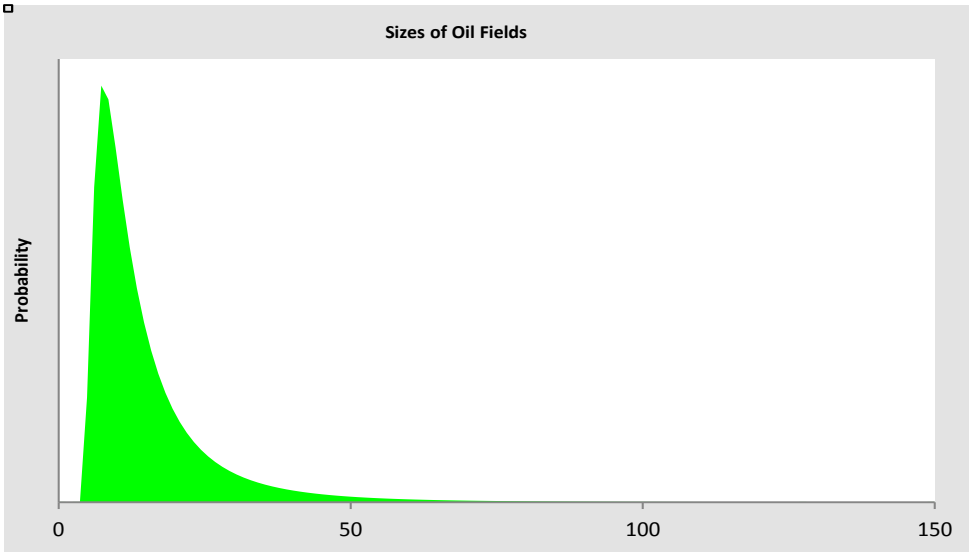
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.35	31.31
Median	30.00	29.99
Mode	---	---
Standard Deviation	9.32	9.29
Variance	86.85	86.25
Skewness	0.8640	0.8503
Kurtosis	4.02	4.00
Coefficient of Variability	0.2973	0.2966
Minimum	8.68	1.00
Maximum	74.64	75.00
Range Width	65.96	74.00
Mean Standard Error	0.04	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	8.68	1.00
95%	18.62	18.61
90%	20.67	20.66
85%	22.21	22.18
80%	23.51	23.46
75%	24.69	24.63
70%	25.77	25.73
65%	26.82	26.80
60%	27.86	27.85
55%	28.94	28.91
50%	30.00	29.99
45%	31.14	31.11
40%	32.32	32.30
35%	33.57	33.58
30%	34.97	34.98
25%	36.54	36.55
20%	38.39	38.40
15%	40.71	40.66
10%	43.68	43.70
5%	48.80	48.62
0%	74.64	75.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	10.68	15.68
Standard Deviation	12.32	12.32
Selected range is from -Infinity to 120.00		5.00 to 125.00



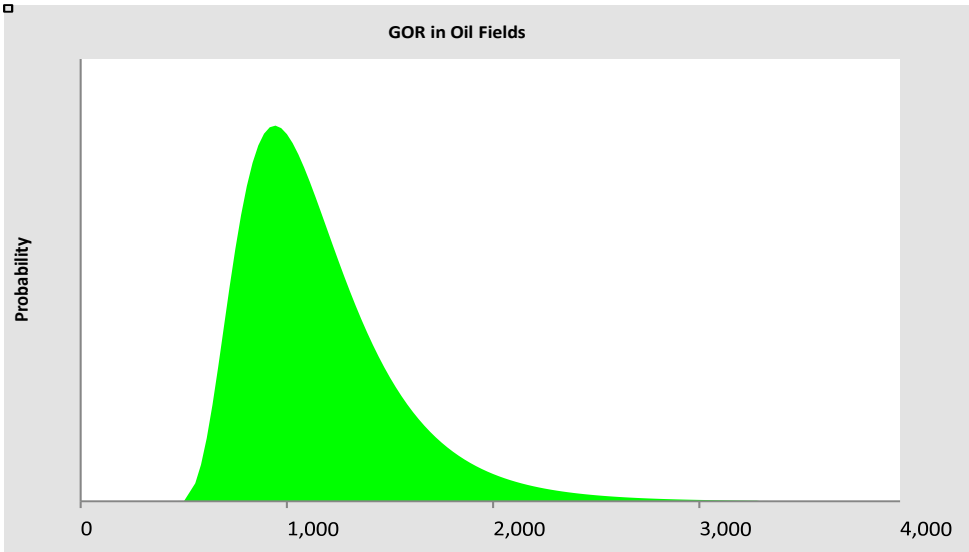
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	15.53	15.53
Median	12.02	11.99
Mode	---	---
Standard Deviation	11.26	11.28
Variance	126.73	127.14
Skewness	3.13	3.16
Kurtosis	17.78	18.05
Coefficient of Variability	0.72	0.73
Minimum	5.11	5.00
Maximum	124.10	125.00
Range Width	118.99	120.00
Mean Standard Error	0.05	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.11	5.00
95%	6.53	6.54
90%	7.15	7.15
85%	7.69	7.70
80%	8.20	8.23
75%	8.72	8.76
70%	9.28	9.32
65%	9.88	9.91
60%	10.54	10.54
55%	11.24	11.23
50%	12.02	11.99
45%	12.87	12.85
40%	13.79	13.82
35%	14.94	14.96
30%	16.30	16.32
25%	18.01	17.99
20%	20.09	20.14
15%	23.08	23.10
10%	27.71	27.64
5%	36.72	36.50
0%	124.10	125.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	400
Mean	778.12	1,178.12
Standard Deviation	377.73	377.73
Selected range is from -Infinity to 2,900.00		400.00 to 3,300.00



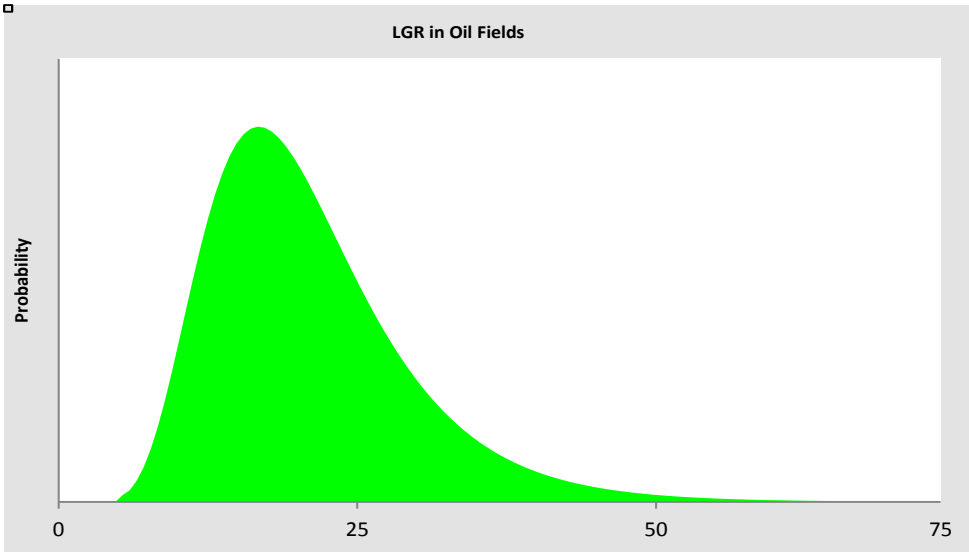
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,175.97	1,175.57
Median	1,098.72	1,099.60
Mode	---	---
Standard Deviation	369.16	368.99
Variance	136,277.32	136,156.39
Skewness	1.33	1.35
Kurtosis	5.58	5.67
Coefficient of Variability	0.3139	0.3139
Minimum	490.41	400.00
Maximum	3,293.39	3,300.00
Range Width	2,802.99	2,900.00
Mean Standard Error	1.65	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	490.41	400.00
95%	729.09	728.40
90%	788.82	788.12
85%	835.51	834.43
80%	875.53	875.14
75%	912.36	913.09
70%	949.11	949.75
65%	984.16	986.05
60%	1,022.13	1,022.70
55%	1,058.84	1,060.34
50%	1,098.71	1,099.60
45%	1,141.50	1,141.18
40%	1,186.25	1,185.96
35%	1,236.33	1,235.07
30%	1,291.01	1,290.14
25%	1,353.93	1,353.61
20%	1,432.60	1,429.58
15%	1,527.72	1,525.70
10%	1,657.88	1,659.20
5%	1,887.47	1,885.49
0%	3,293.39	3,300.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	0.3
Mean	21.21	21.51
Standard Deviation	8.48	8.48
Selected range is from -Infinity to 64.70		0.30 to 65.00



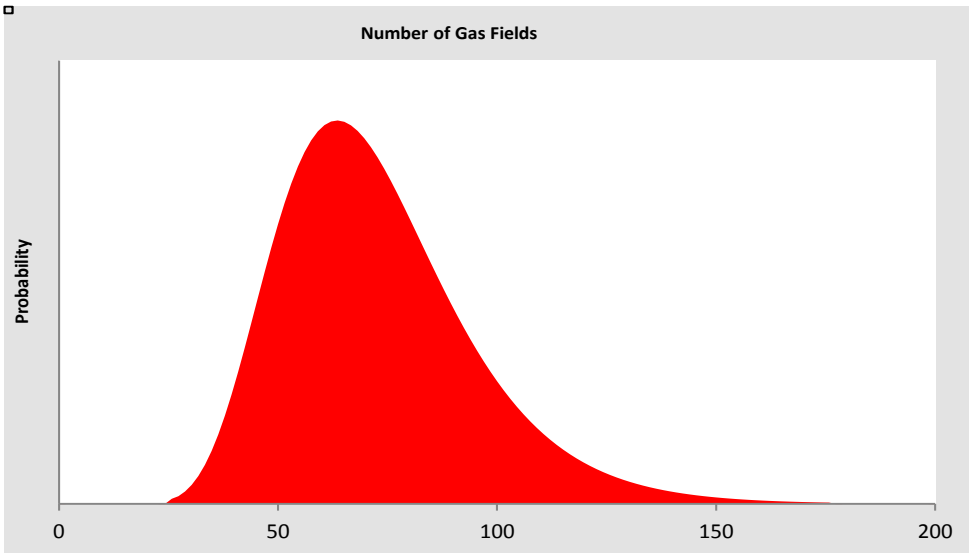
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	21.52	21.46
Median	20.04	19.99
Mode	---	---
Standard Deviation	8.35	8.32
Variance	69.74	69.23
Skewness	1.11	1.10
Kurtosis	4.79	4.76
Coefficient of Variability	0.3881	0.3877
Minimum	3.91	0.30
Maximum	64.83	65.00
Range Width	60.92	64.70
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	3.91	0.30
95%	10.80	10.76
90%	12.38	12.33
85%	13.55	13.52
80%	14.59	14.55
75%	15.51	15.49
70%	16.39	16.39
65%	17.29	17.28
60%	18.19	18.16
55%	19.08	19.06
50%	20.04	19.99
45%	21.02	20.97
40%	22.07	22.00
35%	23.18	23.13
30%	24.44	24.39
25%	25.86	25.82
20%	27.57	27.51
15%	29.73	29.61
10%	32.60	32.50
5%	37.46	37.27
0%	64.83	65.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	72.16	73.16
Standard Deviation	22.09	22.09
Selected range is from -Infinity to 174.00		1.00 to 175.00



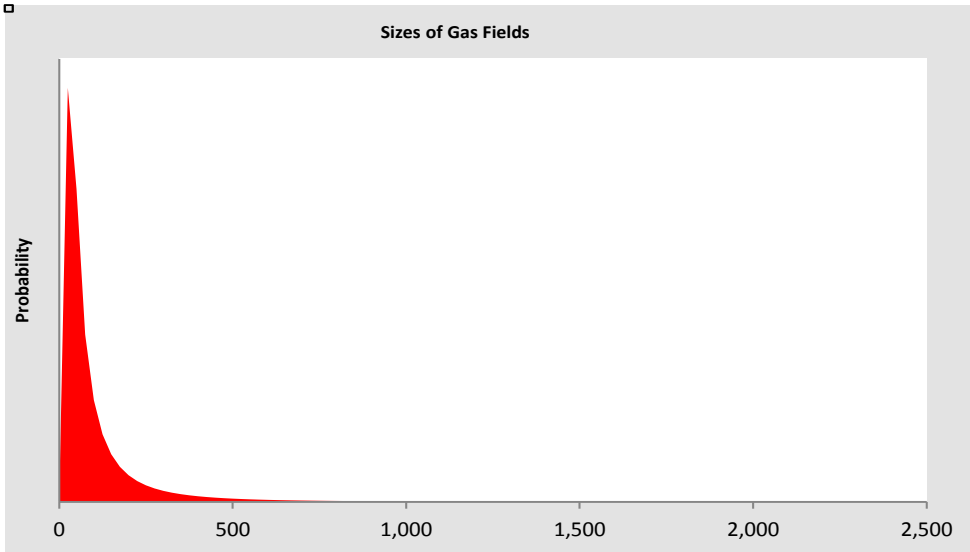
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	72.98	73.04
Median	70.05	69.97
Mode	---	---
Standard Deviation	21.78	21.78
Variance	474.17	474.56
Skewness	0.8324	0.8387
Kurtosis	3.95	3.97
Coefficient of Variability	0.2984	0.2982
Minimum	22.30	1.00
Maximum	174.70	175.00
Range Width	152.39	174.00
Mean Standard Error	0.10	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	22.30	1.00
95%	43.00	43.17
90%	47.94	48.01
85%	51.51	51.59
80%	54.46	54.62
75%	57.22	57.37
70%	59.89	59.96
65%	62.45	62.47
60%	64.91	64.94
55%	67.42	67.43
50%	70.05	69.97
45%	72.63	72.62
40%	75.39	75.40
35%	78.38	78.39
30%	81.57	81.68
25%	85.25	85.38
20%	89.64	89.69
15%	95.03	95.00
10%	102.03	102.11
5%	113.46	113.59
0%	174.70	175.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	100.18	130.18
Standard Deviation	216.93	216.93
Selected range is from -Infinity to 2,470.00		30.00 to 2,500.00



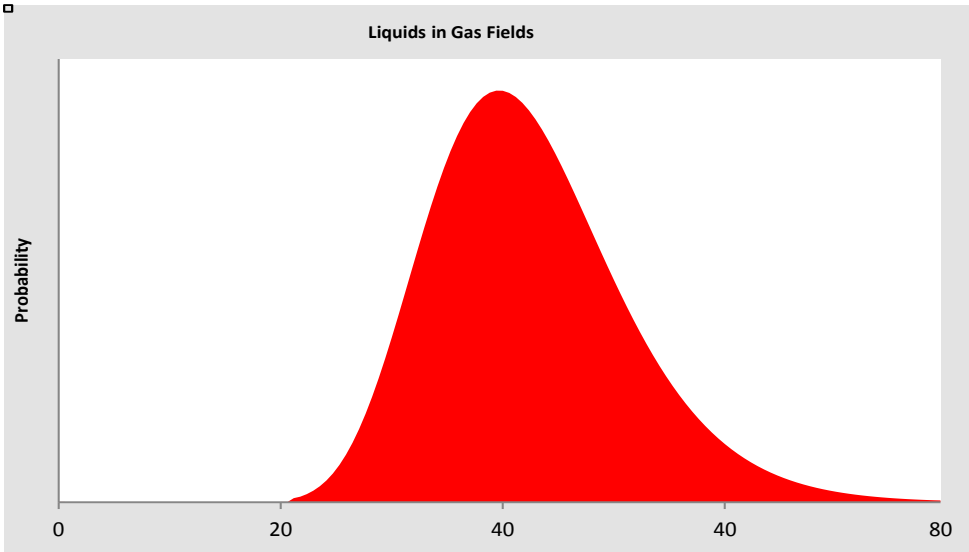
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	126.42	126.45
Median	72.17	71.93
Mode	---	---
Standard Deviation	170.23	171.06
Variance	28,979.81	29,261.32
Skewness	5.37	5.28
Kurtosis	45.82	43.82
Coefficient of Variability	1.35	1.35
Minimum	30.20	30.00
Maximum	2,499.16	2,500.00
Range Width	2,468.96	2,470.00
Mean Standard Error	0.76	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.20	30.00
95%	34.93	34.80
90%	37.87	37.75
85%	40.88	40.70
80%	44.03	43.83
75%	47.58	47.24
70%	51.27	51.01
65%	55.55	55.24
60%	60.30	60.03
55%	65.74	65.53
50%	72.16	71.93
45%	79.78	79.48
40%	89.00	88.54
35%	100.01	99.65
30%	114.29	113.63
25%	131.83	131.89
20%	156.66	156.93
15%	193.93	193.93
10%	255.85	256.04
5%	393.65	393.01
0%	2,499.16	2,500.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	2
Mean	40.95	42.95
Standard Deviation	8.95	8.95
Selected range is from -Infinity to 78.00		2.00 to 80.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	42.92	42.90
Median	42.02	41.99
Mode	---	---
Standard Deviation	8.85	8.86
Variance	78.35	78.46
Skewness	0.5908	0.5917
Kurtosis	3.43	3.43
Coefficient of Variability	0.2063	0.2065
Minimum	18.03	2.00
Maximum	79.96	80.00
Range Width	61.94	78.00
Mean Standard Error	0.04	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	18.03	2.00
95%	30.03	30.03
90%	32.32	32.32
85%	33.98	33.97
80%	35.35	35.34
75%	36.58	36.57
70%	37.73	37.71
65%	38.80	38.80
60%	39.91	39.86
55%	40.99	40.92
50%	42.02	41.99
45%	43.09	43.09
40%	44.25	44.24
35%	45.49	45.46
30%	46.78	46.78
25%	48.25	48.25
20%	49.90	49.95
15%	52.00	52.00
10%	54.64	54.71
5%	59.06	58.96
0%	79.96	80.00

End of Assumptions

Simulation started on 12/29/2011 at 12:10 PM
Simulation stopped on 12/29/2011 at 12:18 PM