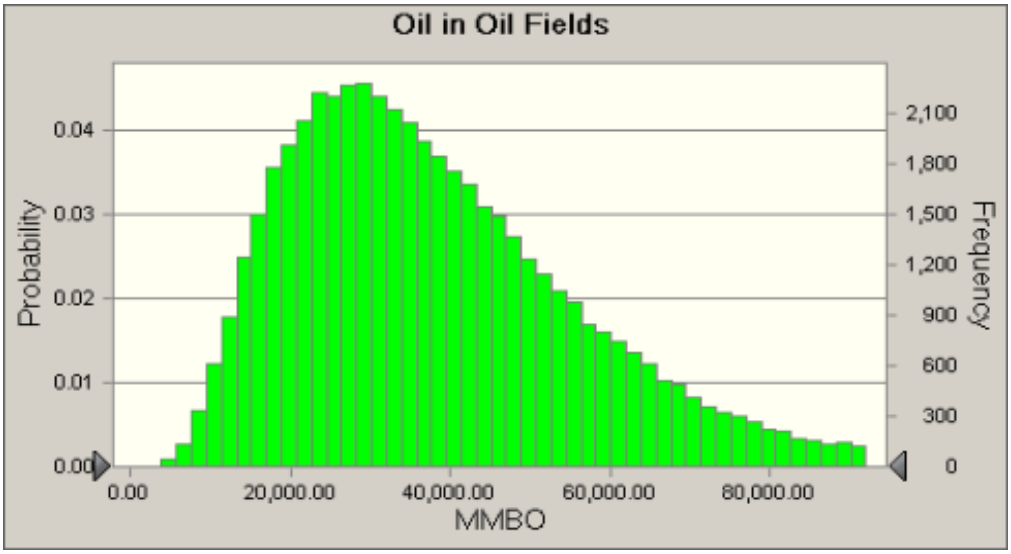
20300101
Zagros Fold Belt Structures
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 67.45 to 201,552.90
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 85.56



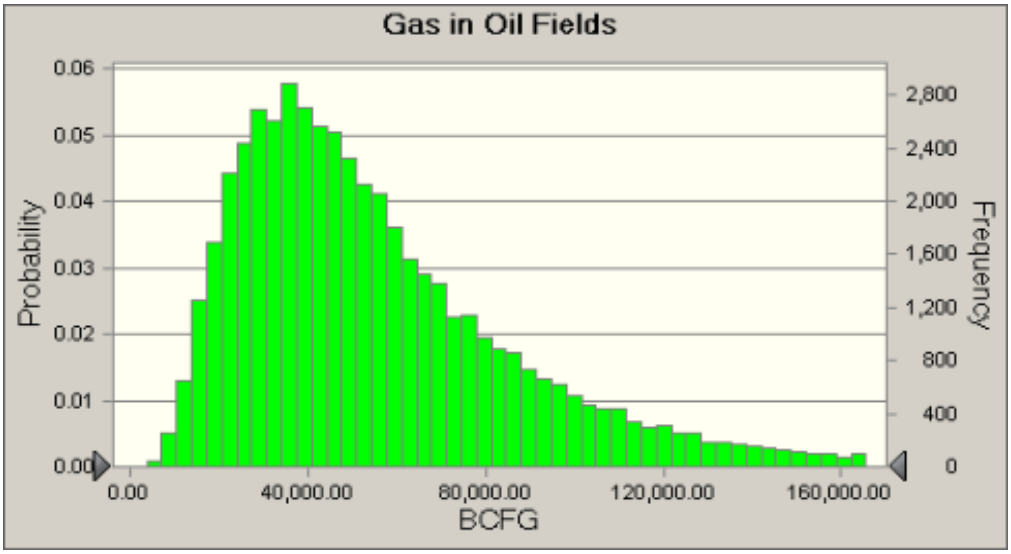
Statistics:	Forecast values
Trials	50,000
Mean	38,464.28
Median	34,943.84
Mode	---
Standard Deviation	19,131.35
Variance	366,008,491.63
Skewness	1.05
Kurtosis	4.54
Coefficient of Variability	0.4974
Minimum	67.45
Maximum	201,552.90
Range Width	201,485.45
Mean Standard Error	85.56

Forecast: Oil in Oil Fields (continued)

Percentiles:	MMBO
100%	67.45
95%	14,016.58
90%	17,204.30
85%	19,815.60
80%	22,127.83
75%	24,286.15
70%	26,396.62
65%	28,441.74
60%	30,555.68
55%	32,773.68
50%	34,943.56
45%	37,391.60
40%	39,900.33
35%	42,661.54
30%	45,634.77
25%	48,984.93
20%	53,032.12
15%	57,875.93
10%	64,240.26
5%	74,731.80
0%	201,552.90

Forecast: Gas in Oil Fields

Summary:
Entire range is from 94.66 to 567,905.13
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 172.45



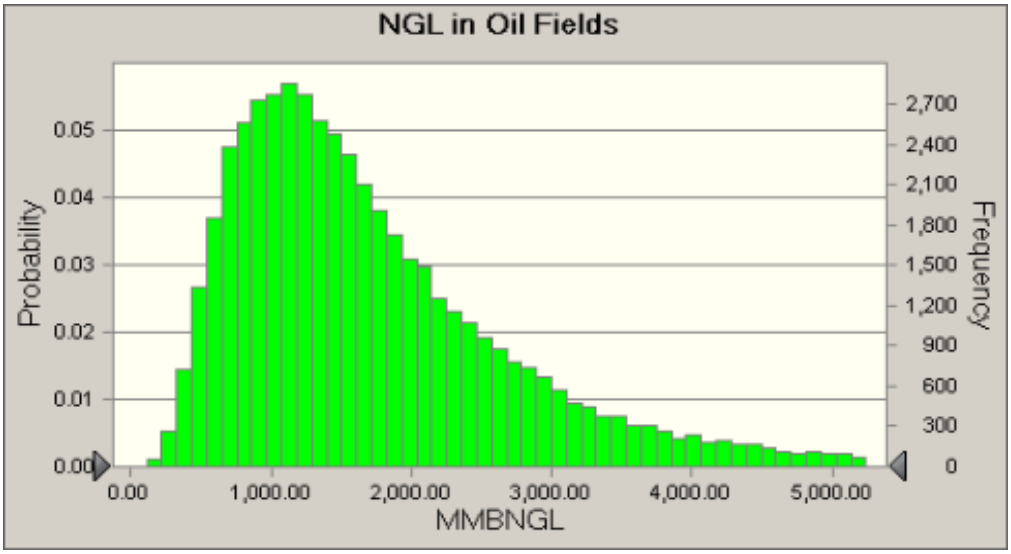
Statistics:	Forecast values
Trials	50,000
Mean	57,607.53
Median	48,071.56
Mode	---
Standard Deviation	38,561.00
Variance	1,486,950,377.18
Skewness	2.39
Kurtosis	13.86
Coefficient of Variability	0.6694
Minimum	94.66
Maximum	567,905.13
Range Width	567,810.47
Mean Standard Error	172.45

Forecast: Gas in Oil Fields (continued)

Percentiles:	BCFG
100%	94.66
95%	17,734.17
90%	22,149.89
85%	25,777.58
80%	28,970.21
75%	32,152.45
70%	35,206.28
65%	38,248.11
60%	41,324.13
55%	44,714.55
50%	48,070.38
45%	51,736.60
40%	55,883.09
35%	60,281.71
30%	65,571.05
25%	71,845.70
20%	79,556.09
15%	89,247.36
10%	103,194.23
5%	128,316.51
0%	567,905.13

Forecast: NGL in Oil Fields

Summary:
Entire range is from 2.82 to 19,936.17
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 5.51



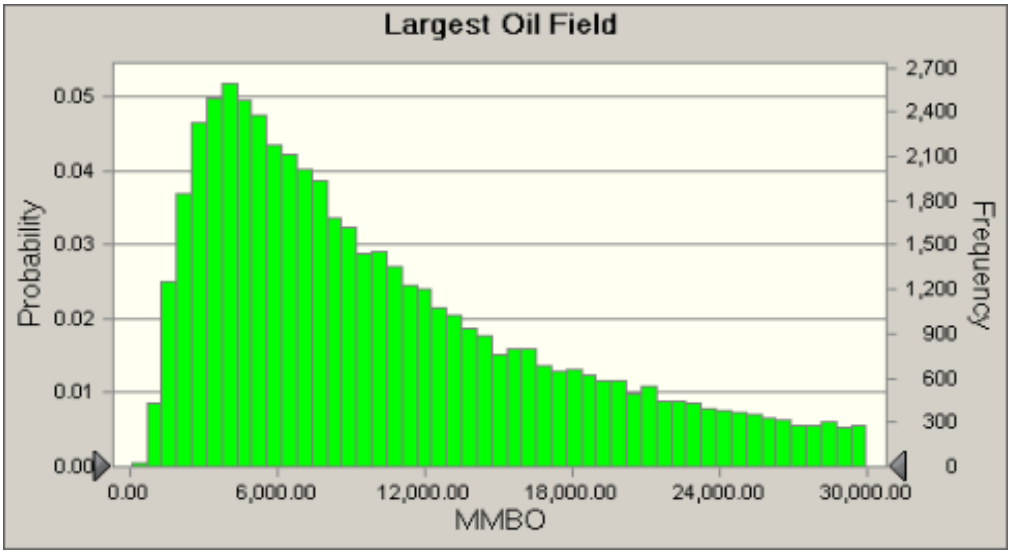
Statistics:	Forecast values
Trials	50,000
Mean	1,791.21
Median	1,483.66
Mode	---
Standard Deviation	1,233.17
Variance	1,520,696.00
Skewness	2.65
Kurtosis	17.17
Coefficient of Variability	0.6885
Minimum	2.82
Maximum	19,936.17
Range Width	19,933.35
Mean Standard Error	5.51

Forecast: NGL in Oil Fields (continued)

Percentiles:	MMBNGL
100%	2.82
95%	545.29
90%	682.47
85%	789.30
80%	889.96
75%	988.80
70%	1,084.48
65%	1,177.90
60%	1,274.45
55%	1,377.84
50%	1,483.63
45%	1,598.17
40%	1,725.88
35%	1,870.49
30%	2,037.42
25%	2,228.14
20%	2,468.88
15%	2,773.18
10%	3,208.34
5%	4,054.15
0%	19,936.17

Forecast: Largest Oil Field

Summary:
Entire range is from 58.27 to 29,999.12
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 31.42



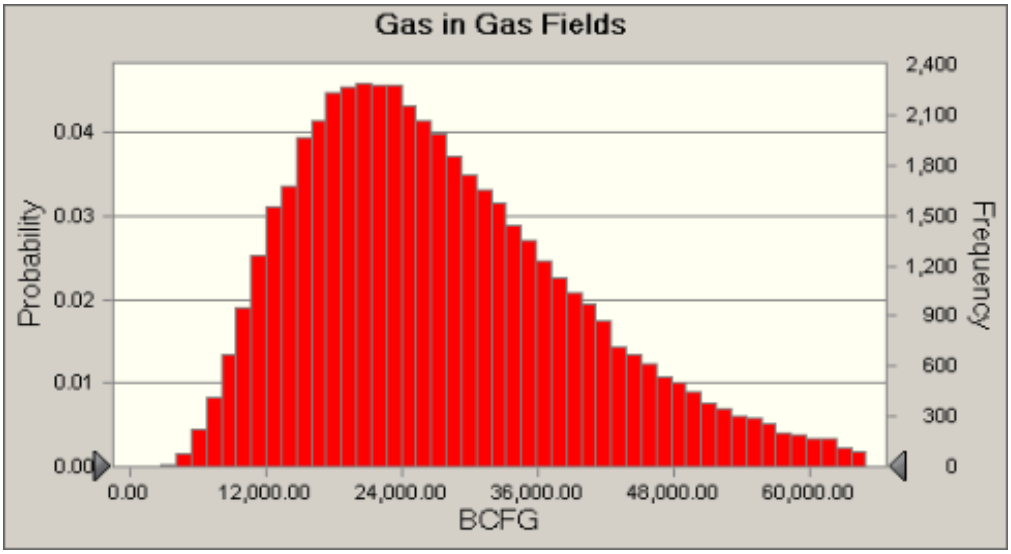
Statistics:	Forecast values
Trials	50,000
Mean	10,296.61
Median	8,340.55
Mode	---
Standard Deviation	7,026.25
Variance	49,368,133.83
Skewness	0.9115
Kurtosis	2.97
Coefficient of Variability	0.6824
Minimum	58.27
Maximum	29,999.12
Range Width	29,940.85
Mean Standard Error	31.42

Forecast: Largest Oil Field (continued)

Percentiles:	MMBO
100%	58.27
95%	2,164.97
90%	2,886.78
85%	3,507.69
80%	4,087.63
75%	4,711.05
70%	5,333.30
65%	6,013.19
60%	6,741.20
55%	7,498.46
50%	8,340.33
45%	9,271.44
40%	10,326.74
35%	11,486.04
30%	12,818.63
25%	14,391.47
20%	16,290.79
15%	18,581.09
10%	21,304.87
5%	24,949.20
0%	29,999.12

Forecast: Gas in Gas Fields

Summary:
Entire range is from 151.68 to 139,267.92
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 59.04



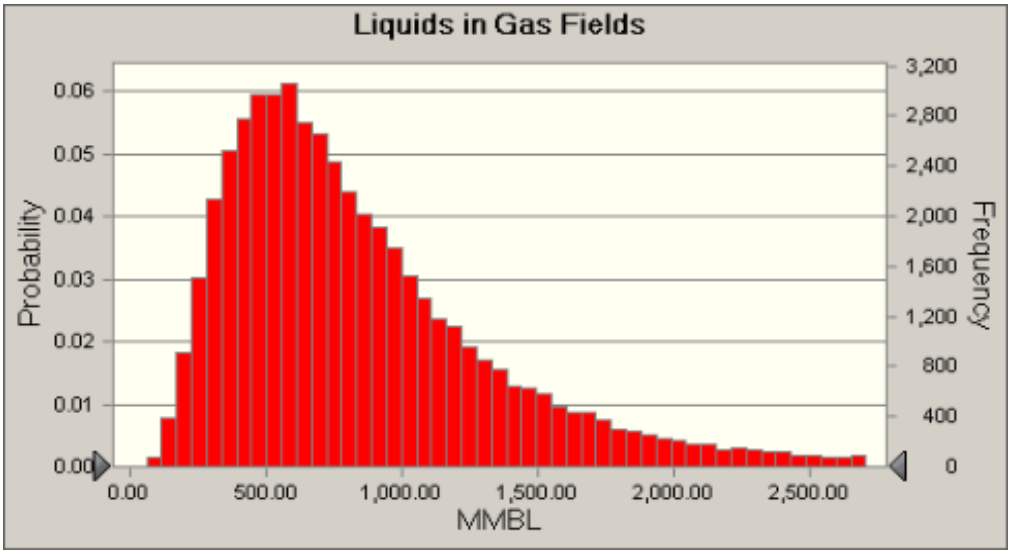
Statistics:	Forecast values
Trials	50,000
Mean	28,002.33
Median	25,680.93
Mode	---
Standard Deviation	13,202.35
Variance	174,302,095.96
Skewness	1.03
Kurtosis	4.49
Coefficient of Variability	0.4715
Minimum	151.68
Maximum	139,267.92
Range Width	139,116.24
Mean Standard Error	59.04

Forecast: Gas in Gas Fields (continued)

Percentiles:	BCFG
100%	151.68
95%	10,906.13
90%	13,234.18
85%	15,153.39
80%	16,807.92
75%	18,295.79
70%	19,762.01
65%	21,198.83
60%	22,670.55
55%	24,130.08
50%	25,680.92
45%	27,292.81
40%	29,017.90
35%	30,936.02
30%	32,966.53
25%	35,275.70
20%	37,962.72
15%	41,250.10
10%	45,792.04
5%	53,029.15
0%	139,267.92

Forecast: Liquids in Gas Fields

Summary:
Entire range is from 2.37 to 13,071.59
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 2.91



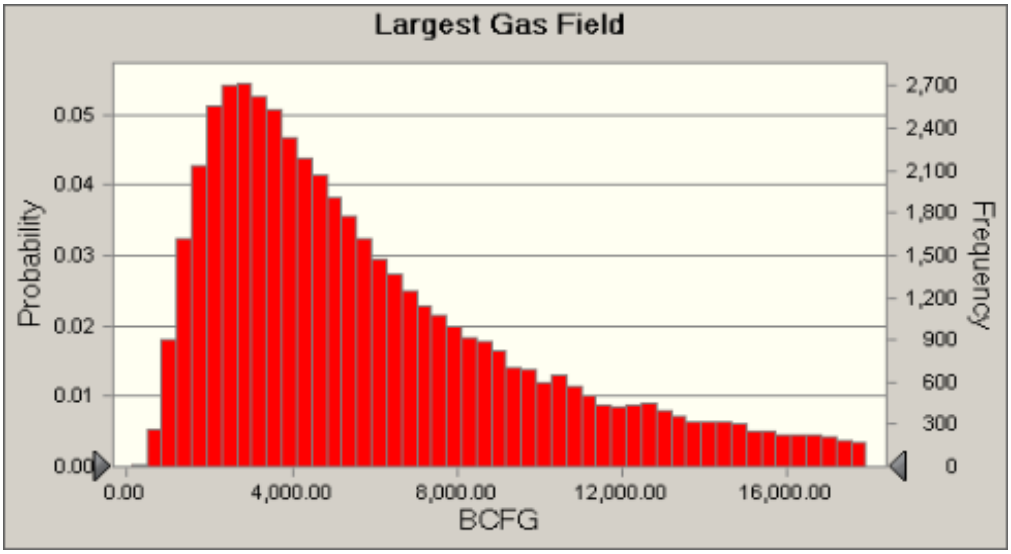
Statistics:	Forecast values
Trials	50,000
Mean	885.12
Median	725.47
Mode	---
Standard Deviation	649.62
Variance	422,009.21
Skewness	3.56
Kurtosis	31.01
Coefficient of Variability	0.7339
Minimum	2.37
Maximum	13,071.59
Range Width	13,069.22
Mean Standard Error	2.91

Forecast: Liquids in Gas Fields (continued)

Percentiles:	MMBL
100%	2.37
95%	265.49
90%	332.35
85%	387.29
80%	436.60
75%	483.95
70%	529.93
65%	575.87
60%	621.84
55%	672.51
50%	725.44
45%	782.51
40%	845.68
35%	916.09
30%	993.56
25%	1,088.02
20%	1,204.45
15%	1,356.92
10%	1,589.85
5%	2,008.83
0%	13,071.59

Forecast: Largest Gas Field

Summary:
Entire range is from 105.42 to 19,996.99
Filter range is from 0.00 to Infinity
After 50,000 trials, the standard error of the mean is 18.83



Statistics:	Forecast values
Trials	50,000
Mean	6,130.08
Median	4,888.20
Mode	---
Standard Deviation	4,210.04
Variance	17,724,428.42
Skewness	1.17
Kurtosis	3.79
Coefficient of Variability	0.6868
Minimum	105.42
Maximum	19,996.99
Range Width	19,891.57
Mean Standard Error	18.83

Forecast: Largest Gas Field (continued)

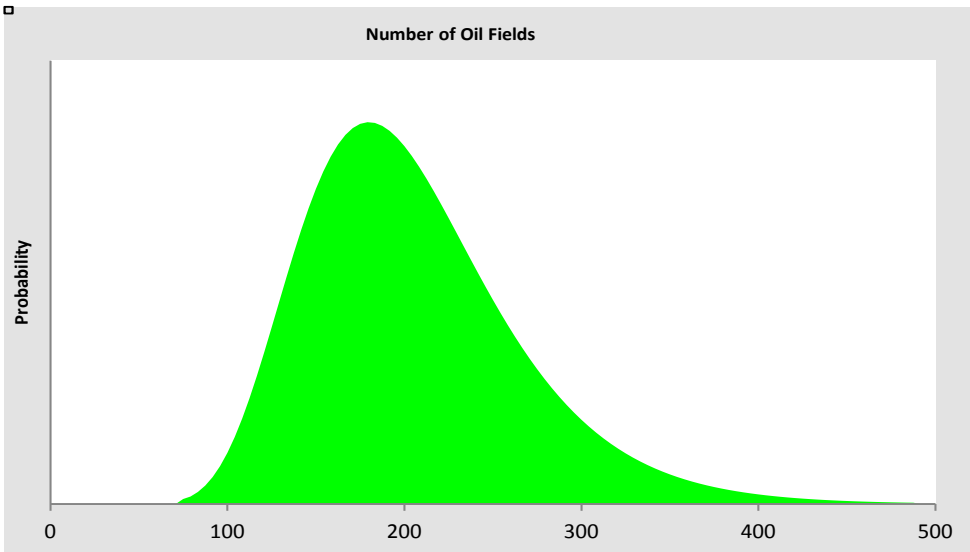
Percentiles:	BCFG
100%	105.42
95%	1,498.52
90%	1,931.76
85%	2,287.51
80%	2,623.48
75%	2,954.37
70%	3,296.48
65%	3,657.25
60%	4,044.58
55%	4,452.95
50%	4,888.10
45%	5,372.60
40%	5,928.17
35%	6,568.45
30%	7,307.02
25%	8,200.72
20%	9,257.70
15%	10,635.53
10%	12,554.13
5%	15,240.28
0%	19,996.99

End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	202.68	203.68
Standard Deviation	61.30	61.3
Selected range is from -Infinity to 484.00		1.00 to 485.00



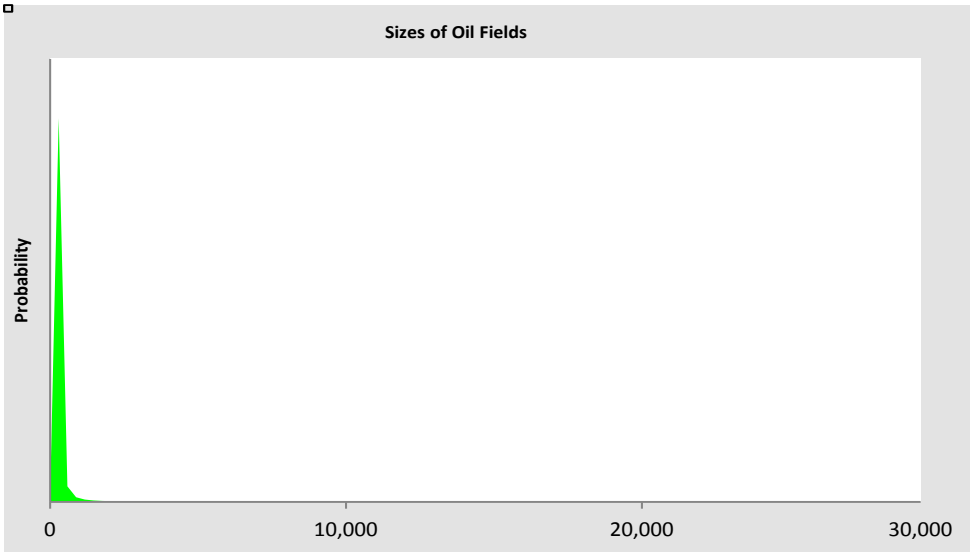
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	203.46	203.35
Median	194.88	194.93
Mode	---	---
Standard Deviation	60.71	60.45
Variance	3,686.17	3,654.69
Skewness	0.8560	0.8283
Kurtosis	4.05	3.94
Coefficient of Variability	0.2984	0.2973
Minimum	59.19	1.00
Maximum	484.94	485.00
Range Width	425.75	484.00
Mean Standard Error	0.27	---

Assumption: Number of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	59.19	1.00
95%	120.18	120.23
90%	133.59	133.76
85%	143.68	143.74
80%	152.07	152.21
75%	159.77	159.87
70%	167.15	167.08
65%	174.32	174.05
60%	181.11	180.93
55%	187.82	187.86
50%	194.88	194.93
45%	202.40	202.27
40%	210.12	210.00
35%	218.33	218.31
30%	227.36	227.43
25%	237.86	237.68
20%	249.44	249.64
15%	264.12	264.33
10%	284.27	284.02
5%	316.80	315.76
0%	484.94	485.00

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	5
Mean	277.50	282.5
Standard Deviation	9,621.52	9,621.52
Selected range is from -Infinity to 29,995.00		5.00 to 30,000.00



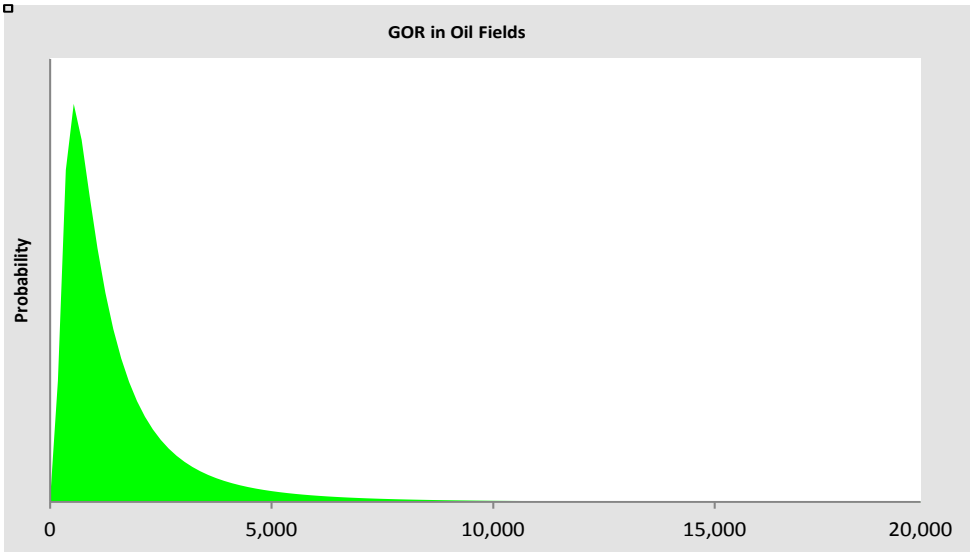
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	191.53	219.96
Median	12.79	12.97
Mode	---	---
Standard Deviation	1,135.02	1,062.93
Variance	1,288,274.28	1,129,825.43
Skewness	14.53	14.26
Kurtosis	267.53	265.69
Coefficient of Variability	5.93	4.83
Minimum	5.00	5.00
Maximum	29,535.46	30,000.00
Range Width	29,530.46	29,995.00
Mean Standard Error	5.08	---

Assumption: Sizes of Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	5.00	5.00
95%	5.10	5.10
90%	5.27	5.26
85%	5.50	5.51
80%	5.84	5.85
75%	6.31	6.32
70%	6.93	6.97
65%	7.80	7.86
60%	8.94	9.06
55%	10.56	10.71
50%	12.79	12.97
45%	15.84	16.14
40%	20.28	20.64
35%	26.62	27.22
30%	36.53	37.16
25%	52.39	52.92
20%	79.28	79.68
15%	127.49	130.21
10%	234.24	244.58
5%	617.26	628.71
0%	29,535.46	30,000.00

Assumption: GOR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	25
Mean	1,491.06	1,516.06
Standard Deviation	1,819.82	1,819.82
Selected range is from -Infinity to 18,075.00		25.00 to 18,100.00



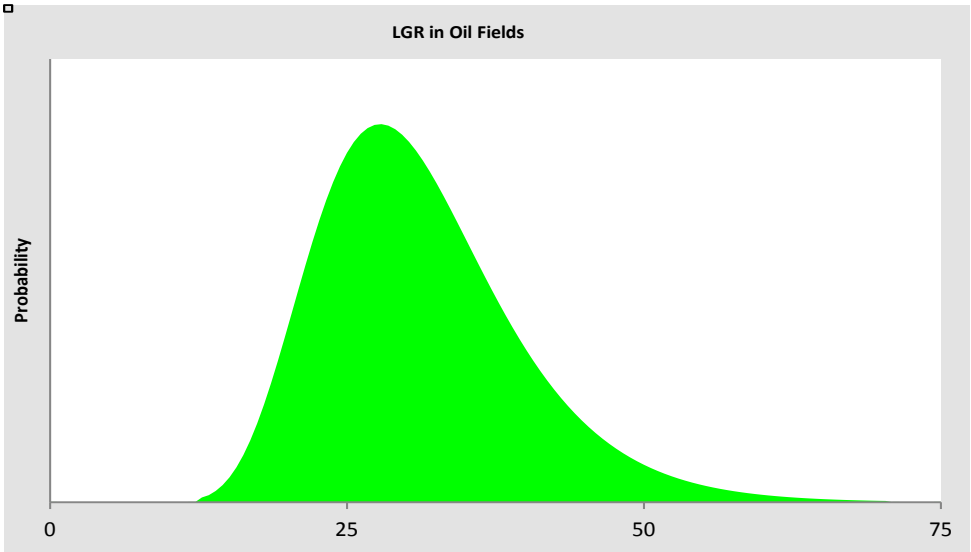
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,479.70	1,493.09
Median	961.64	968.87
Mode	---	---
Standard Deviation	1,633.92	1,651.10
Variance	2,669,699.30	2,726,134.54
Skewness	3.29	3.33
Kurtosis	19.21	19.66
Coefficient of Variability	1.10	1.11
Minimum	42.03	25.00
Maximum	17,866.20	18,100.00
Range Width	17,824.16	18,075.00
Mean Standard Error	7.31	---

Assumption: GOR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	42.03	25.00
95%	220.39	221.33
90%	297.89	302.74
85%	370.39	375.98
80%	441.47	447.72
75%	513.77	520.84
70%	590.24	597.22
65%	671.32	678.46
60%	761.24	766.17
55%	855.56	862.22
50%	961.60	968.87
45%	1,079.21	1,089.08
40%	1,212.88	1,226.90
35%	1,371.99	1,388.09
30%	1,568.86	1,581.34
25%	1,801.34	1,820.61
20%	2,105.72	2,130.37
15%	2,538.03	2,558.99
10%	3,196.20	3,222.88
5%	4,510.34	4,531.89
0%	17,866.20	18,100.00

Assumption: LGR in Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	2
Mean	29.18	31.18
Standard Deviation	8.55	8.55
Selected range is from -Infinity to 68.00		2.00 to 70.00



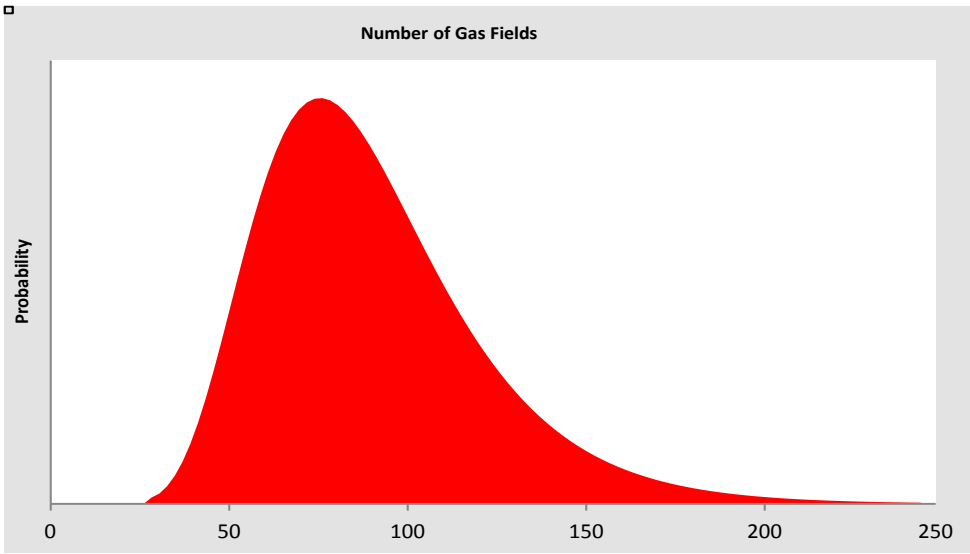
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.10	31.13
Median	29.98	29.99
Mode	---	---
Standard Deviation	8.40	8.44
Variance	70.55	71.22
Skewness	0.7947	0.8020
Kurtosis	3.88	3.88
Coefficient of Variability	0.2701	0.2711
Minimum	10.52	2.00
Maximum	69.94	70.00
Range Width	59.42	68.00
Mean Standard Error	0.04	---

Assumption: LGR in Oil Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	10.52	2.00
95%	19.40	19.46
90%	21.35	21.38
85%	22.81	22.79
80%	24.00	23.98
75%	25.05	25.06
70%	26.11	26.08
65%	27.04	27.06
60%	28.04	28.03
55%	29.00	29.00
50%	29.98	29.99
45%	30.99	31.02
40%	32.06	32.10
35%	33.24	33.26
30%	34.51	34.53
25%	35.92	35.96
20%	37.62	37.63
15%	39.62	39.67
10%	42.27	42.40
5%	46.57	46.79
0%	69.94	70.00

Assumption: Number of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	89.15	90.15
Standard Deviation	31.71	31.71
Selected range is from -Infinity to 244.00		1.00 to 245.00



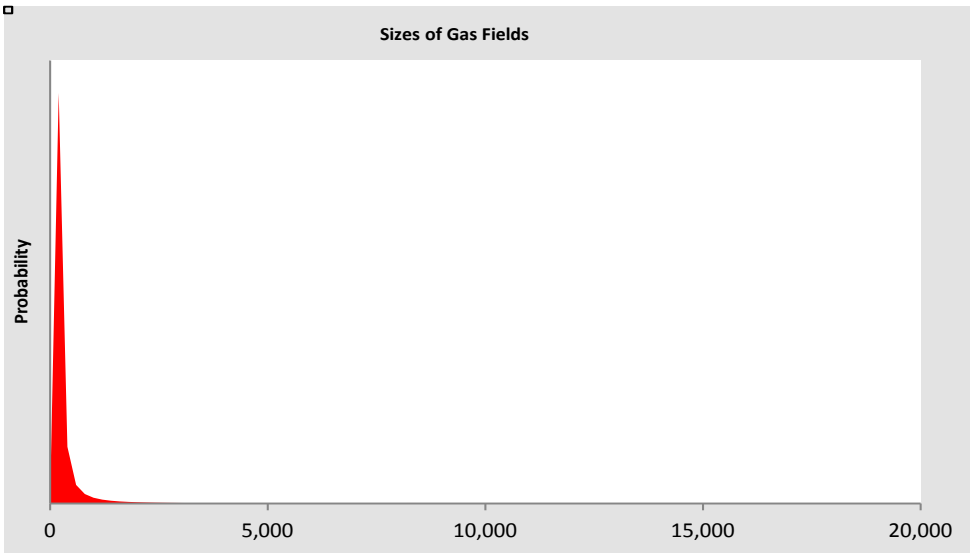
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	89.91	89.97
Median	85.02	84.96
Mode	---	---
Standard Deviation	31.20	31.19
Variance	973.24	972.99
Skewness	0.9568	0.9785
Kurtosis	4.31	4.36
Coefficient of Variability	0.3470	0.3467
Minimum	21.32	1.00
Maximum	244.61	245.00
Range Width	223.28	244.00
Mean Standard Error	0.14	---

Assumption: Number of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	21.32	1.00
95%	48.34	48.61
90%	54.76	54.97
85%	59.52	59.73
80%	63.62	63.81
75%	67.48	67.54
70%	70.95	71.07
65%	74.48	74.52
60%	78.01	77.94
55%	81.37	81.40
50%	85.02	84.96
45%	88.85	88.68
40%	92.77	92.63
35%	96.97	96.89
30%	101.70	101.59
25%	107.10	106.93
20%	113.42	113.20
15%	121.04	120.97
10%	131.33	131.49
5%	148.22	148.72
0%	244.61	245.00

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	30
Mean	322.40	352.4
Standard Deviation	2,141.30	2,141.30
Selected range is from -Infinity to 19,970.00		30.00 to 20,000.00



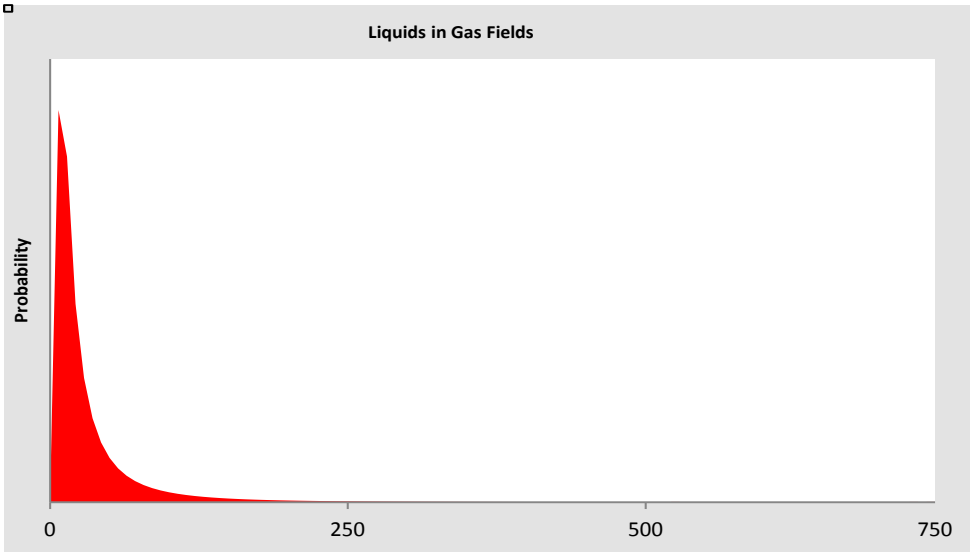
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	310.18	319.51
Median	77.58	77.88
Mode	---	---
Standard Deviation	932.37	944.94
Variance	869,318.41	892,910.64
Skewness	9.10	9.43
Kurtosis	116.46	124.62
Coefficient of Variability	3.01	2.96
Minimum	30.03	30.00
Maximum	19,601.34	20,000.00
Range Width	19,571.31	19,970.00
Mean Standard Error	4.17	---

Assumption: Sizes of Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	30.03	30.00
95%	31.94	31.93
90%	33.94	33.93
85%	36.38	36.34
80%	39.29	39.27
75%	42.78	42.85
70%	47.10	47.22
65%	52.35	52.59
60%	59.07	59.22
55%	67.51	67.48
50%	77.58	77.88
45%	90.56	91.18
40%	107.60	108.46
35%	130.03	131.47
30%	161.63	163.05
25%	207.58	208.22
20%	275.94	276.71
15%	386.96	390.29
10%	609.02	609.66
5%	1,187.83	1,198.67
0%	19,601.34	20,000.00

Assumption: Liquids in Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	1
Mean	31.55	32.55
Standard Deviation	63.70	63.7
Selected range is from -Infinity to 719.00		1.00 to 720.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	31.86	31.48
Median	14.87	14.98
Mode	---	---
Standard Deviation	52.67	51.39
Variance	2,774.55	2,640.54
Skewness	4.95	5.03
Kurtosis	38.18	40.10
Coefficient of Variability	1.65	1.63
Minimum	1.05	1.00
Maximum	718.80	720.00
Range Width	717.75	719.00
Mean Standard Error	0.24	---

Assumption: Liquids in Gas Fields (continued)

Percentiles:	Simulated values	Theoretical values
100%	1.05	1.00
95%	2.70	2.72
90%	3.69	3.73
85%	4.68	4.73
80%	5.76	5.78
75%	6.92	6.92
70%	8.19	8.17
65%	9.54	9.56
60%	11.09	11.12
55%	12.83	12.91
50%	14.87	14.98
45%	17.38	17.40
40%	20.28	20.30
35%	23.85	23.83
30%	28.24	28.25
25%	34.13	33.98
20%	41.57	41.78
15%	53.42	53.22
10%	73.05	72.24
5%	115.63	113.63
0%	718.80	720.00

End of Assumptions

Simulation started on 6/29/2011 at 7:01 PM
Simulation stopped on 6/30/2011 at 3:19 PM