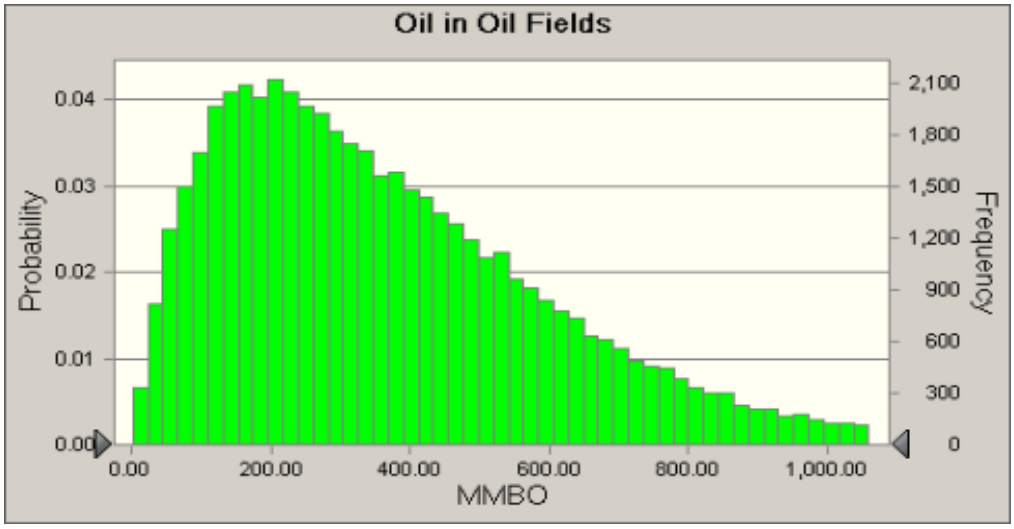
50030101
Tertiary Sandstone Oil and Gas
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 1.80 to 1,890.06
After 50,000 trials, the standard error of the mean is 1.10



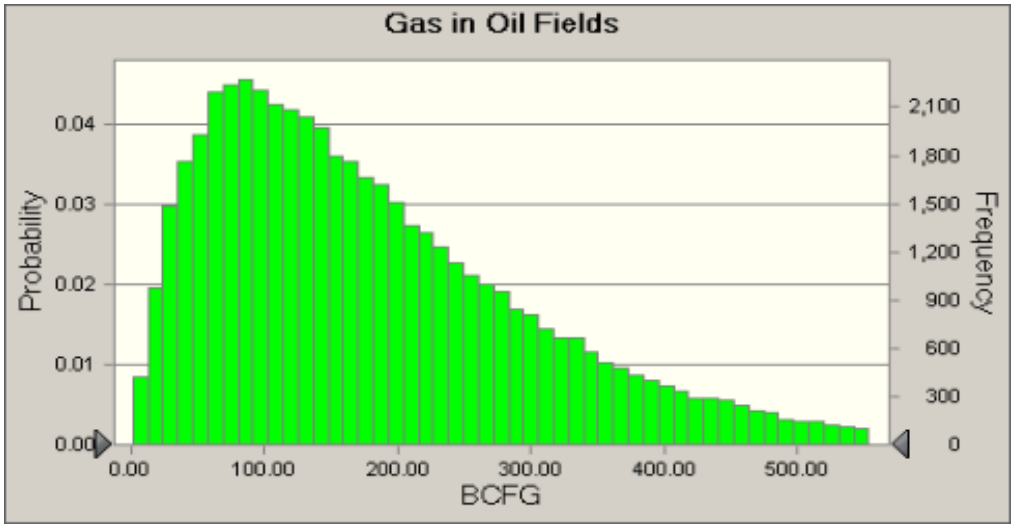
Statistics:	Forecast values
Trials	50,000
Mean	371.54
Median	321.53
Mode	---
Standard Deviation	245.61
Variance	60,326.61
Skewness	1.06
Kurtosis	4.27
Coefficient of Variability	0.6611
Minimum	1.80
Maximum	1,890.06
Range Width	1,888.26
Mean Standard Error	1.10

Forecast: Oil in Oil Fields (cont'd)

Percentiles:	MMBO
100%	1.80
95%	68.18
90%	102.38
85%	130.74
80%	156.97
75%	182.89
70%	208.78
65%	235.25
60%	262.58
55%	291.04
50%	321.52
45%	353.66
40%	387.89
35%	424.22
30%	464.66
25%	510.10
20%	561.45
15%	625.39
10%	709.99
5%	843.52
0%	1,890.06

Forecast: Gas in Oil Fields

Summary:
Entire range is from 1.02 to 1,073.34
After 50,000 trials, the standard error of the mean is 0.59



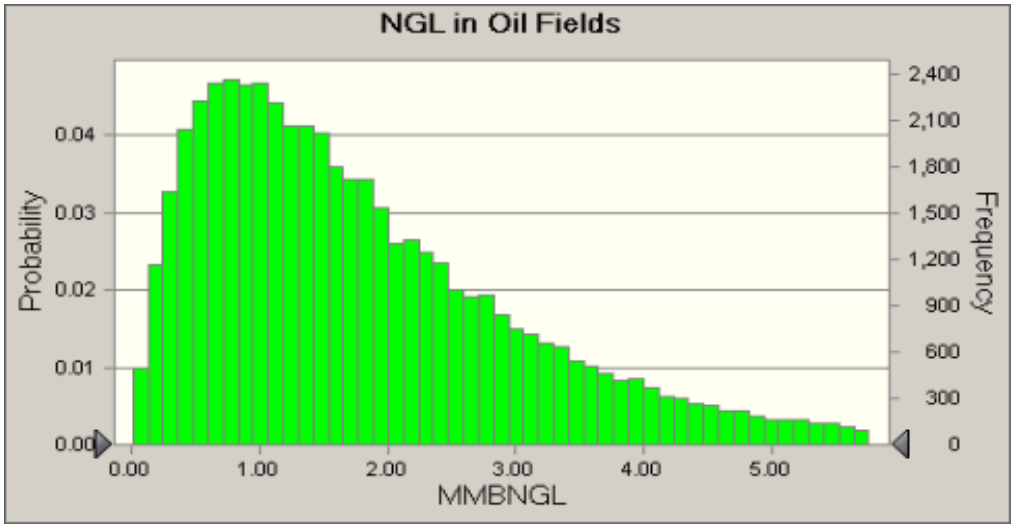
Statistics:	Forecast values
Trials	50,000
Mean	186.05
Median	155.88
Mode	---
Standard Deviation	131.41
Variance	17,267.30
Skewness	1.30
Kurtosis	5.27
Coefficient of Variability	0.7063
Minimum	1.02
Maximum	1,073.34
Range Width	1,072.32
Mean Standard Error	0.59

Forecast: Gas in Oil Fields (cont'd)

Percentiles:	BCFG
100%	1.02
95%	32.23
90%	48.46
85%	62.26
80%	75.06
75%	87.55
70%	100.08
65%	113.37
60%	127.08
55%	140.93
50%	155.88
45%	171.95
40%	189.17
35%	207.85
30%	229.20
25%	253.50
20%	282.16
15%	317.46
10%	364.99
5%	443.01
0%	1,073.34

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.01 to 14.67
After 50,000 trials, the standard error of the mean is 0.01



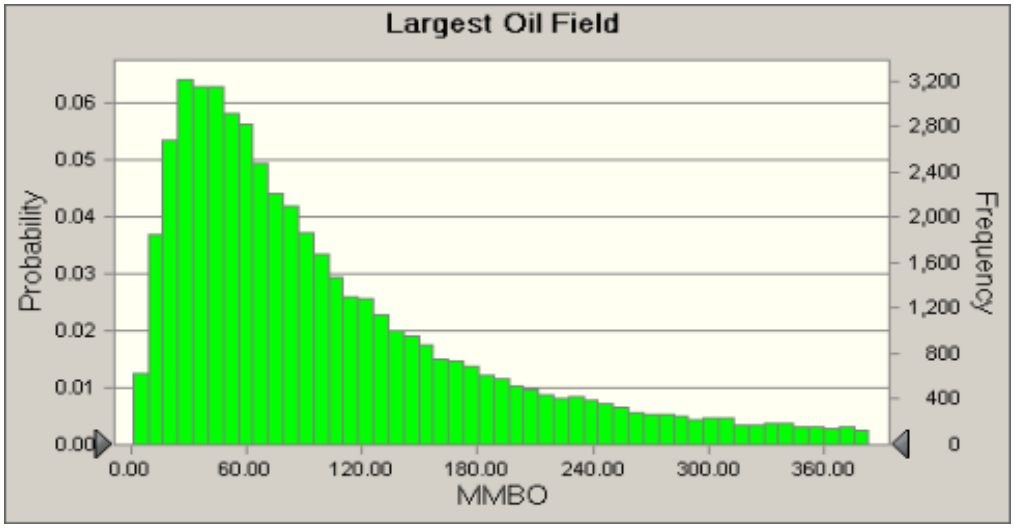
Statistics:	Forecast values
Trials	50,000
Mean	1.86
Median	1.51
Mode	---
Standard Deviation	1.39
Variance	1.93
Skewness	1.51
Kurtosis	6.35
Coefficient of Variability	0.7473
Minimum	0.01
Maximum	14.67
Range Width	14.67
Mean Standard Error	0.01

Forecast: NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
100%	0.01
95%	0.31
90%	0.46
85%	0.59
80%	0.72
75%	0.84
70%	0.97
65%	1.09
60%	1.23
55%	1.37
50%	1.51
45%	1.68
40%	1.85
35%	2.04
30%	2.26
25%	2.52
20%	2.82
15%	3.20
10%	3.73
5%	4.59
0%	14.67

Forecast: Largest Oil Field

Summary:
Entire range is from 0.67 to 499.99
After 50,000 trials, the standard error of the mean is 0.44



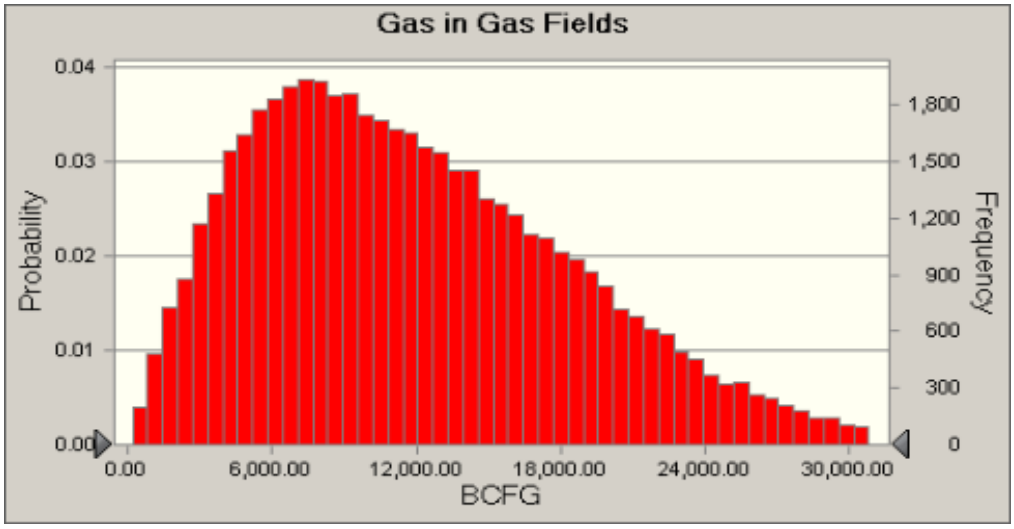
Statistics:	Forecast values
Trials	50,000
Mean	110.88
Median	78.68
Mode	---
Standard Deviation	97.38
Variance	9,483.22
Skewness	1.61
Kurtosis	5.38
Coefficient of Variability	0.8783
Minimum	0.67
Maximum	499.99
Range Width	499.33
Mean Standard Error	0.44

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
100%	0.67
95%	16.38
90%	23.71
85%	29.94
80%	35.98
75%	42.11
70%	48.61
65%	55.27
60%	62.14
55%	69.85
50%	78.68
45%	87.99
40%	98.94
35%	111.99
30%	127.58
25%	146.67
20%	170.97
15%	202.91
10%	249.71
5%	328.73
0%	499.99

Forecast: Gas in Gas Fields

Summary:
Entire range is from 213.11 to 44,298.55
After 50,000 trials, the standard error of the mean is 30.03



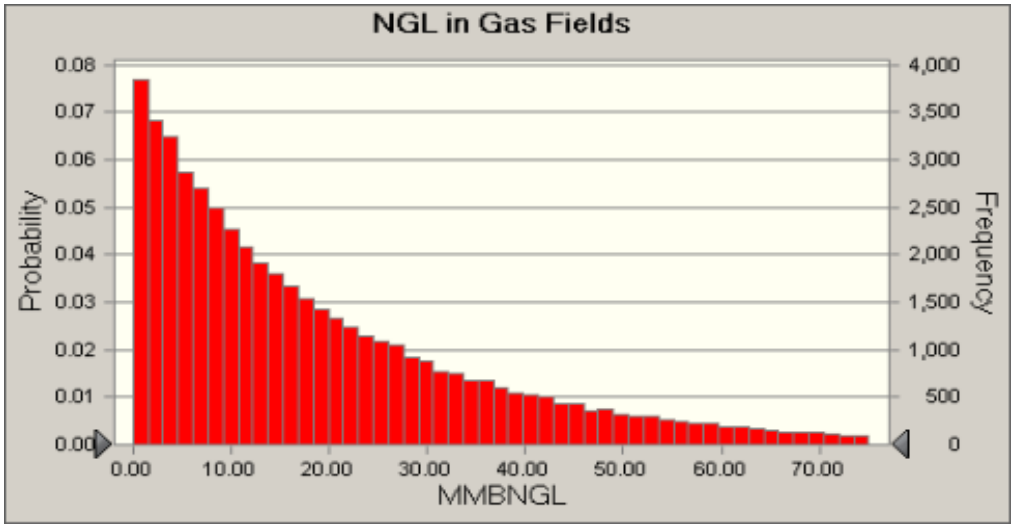
Statistics:	Forecast values
Trials	50,000
Mean	11,991.66
Median	11,003.59
Mode	---
Standard Deviation	6,715.05
Variance	45,091,950.63
Skewness	0.6663
Kurtosis	3.07
Coefficient of Variability	0.5600
Minimum	213.11
Maximum	44,298.55
Range Width	44,085.44
Mean Standard Error	30.03

Forecast: Gas in Gas Fields (cont'd)

Percentiles:	BCFG
100%	213.11
95%	2,835.56
90%	4,042.22
85%	5,027.95
80%	5,907.32
75%	6,746.92
70%	7,562.98
65%	8,376.61
60%	9,212.90
55%	10,093.01
50%	11,003.39
45%	11,933.82
40%	12,918.54
35%	13,969.36
30%	15,092.73
25%	16,337.91
20%	17,746.75
15%	19,330.73
10%	21,381.27
5%	24,421.63
0%	44,298.55

Forecast: NGL in Gas Fields

Summary:
Entire range is from 0.00 to 174.98
After 50,000 trials, the standard error of the mean is 0.09



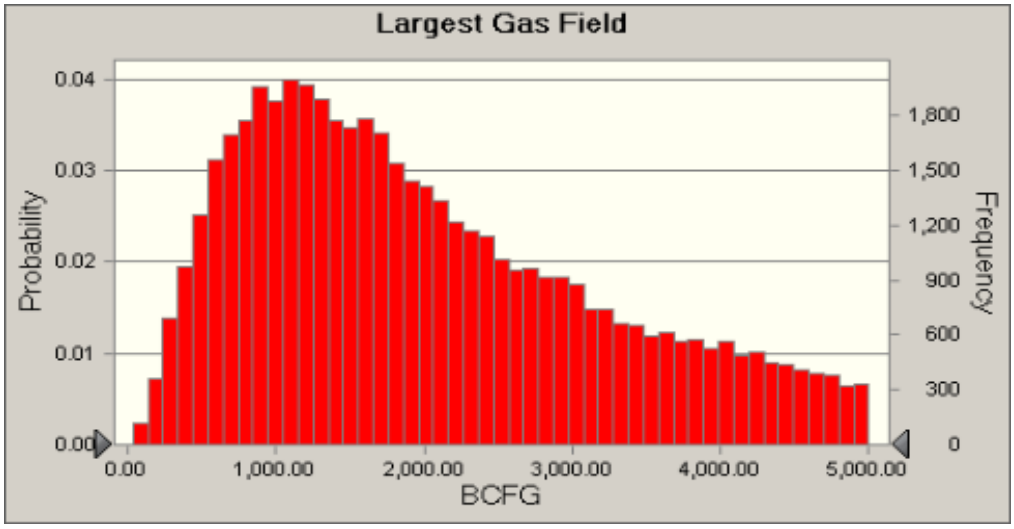
Statistics:	Forecast values
Trials	50,000
Mean	20.02
Median	13.91
Mode	---
Standard Deviation	19.64
Variance	385.55
Skewness	1.73
Kurtosis	6.73
Coefficient of Variability	0.9808
Minimum	0.00
Maximum	174.98
Range Width	174.98
Mean Standard Error	0.09

Forecast: NGL in Gas Fields (cont'd)

Percentiles:	MMBNGL
100%	0.00
95%	0.97
90%	2.02
85%	3.18
80%	4.35
75%	5.64
70%	6.99
65%	8.52
60%	10.14
55%	11.94
50%	13.91
45%	16.07
40%	18.53
35%	21.28
30%	24.50
25%	28.12
20%	32.73
15%	38.56
10%	46.56
5%	60.08
0%	174.98

Forecast: Largest Gas Field

Summary:
Entire range is from 32.54 to 4,999.85
After 50,000 trials, the standard error of the mean is 5.30



Statistics:	Forecast values
Trials	50,000
Mean	2,001.50
Median	1,746.57
Mode	---
Standard Deviation	1,185.06
Variance	1,404,363.02
Skewness	0.6500
Kurtosis	2.53
Coefficient of Variability	0.5921
Minimum	32.54
Maximum	4,999.85
Range Width	4,967.31
Mean Standard Error	5.30

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
100%	32.54
95%	466.82
90%	642.92
85%	788.10
80%	924.18
75%	1,056.80
70%	1,183.20
65%	1,317.02
60%	1,456.71
55%	1,600.64
50%	1,746.53
45%	1,915.77
40%	2,094.58
35%	2,295.96
30%	2,526.59
25%	2,786.55
20%	3,065.89
15%	3,420.60
10%	3,845.84
5%	4,338.14
0%	4,999.85

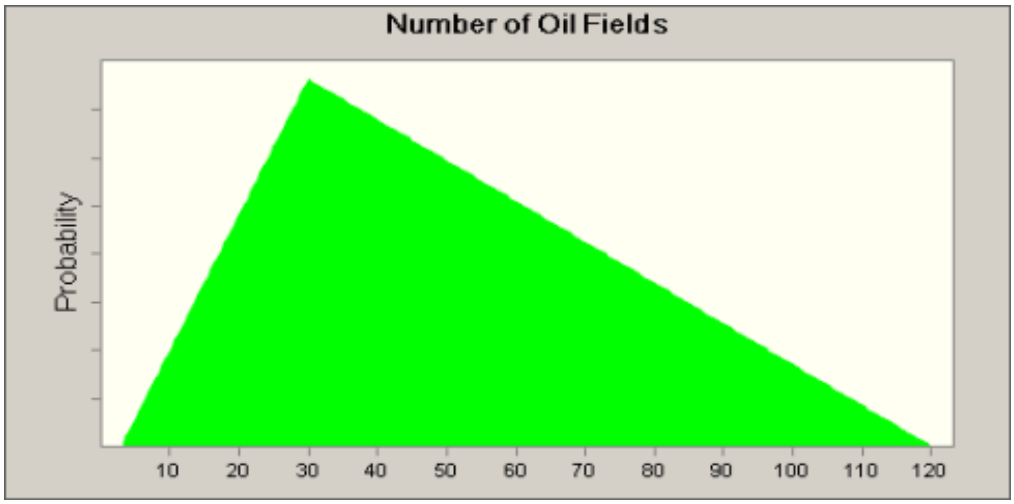
End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	3
Likeliest	30
Maximum	120



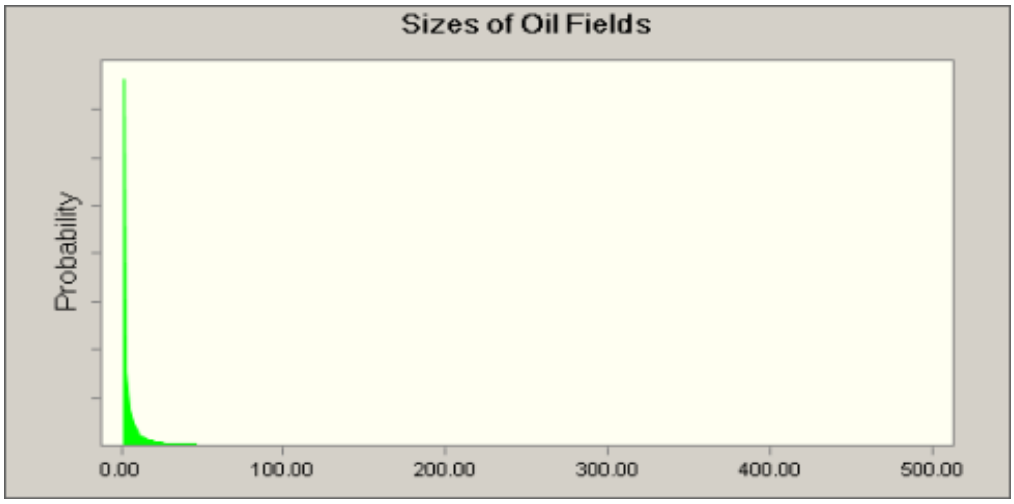
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	51	51
Median	47	47
Mode	---	30
Standard Deviation	25	25
Variance	626	626
Skewness	0.4518	0.4446
Kurtosis	2.41	5.40
Coefficient of Variability	0.4892	0.4904
Minimum	3	3
Maximum	120	120
Range Width	117	117
Mean Standard Error	0	---

Assumption: Number of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	3	3
95%	16	16
90%	21	21
85%	25	25
80%	28	28
75%	31	31
70%	34	34
65%	37	37
60%	41	41
55%	44	44
50%	47	47
45%	51	51
40%	55	55
35%	59	59
30%	64	64
25%	69	69
20%	74	74
15%	80	80
10%	88	88
5%	97	97
0%	120	120

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	7.81	8.31
Standard Deviation	54.92	54.92
Selected range is from -Infinity to 499.50		0.50 to 500.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	6.59	6.99
Median	1.11	1.10
Mode	---	---
Standard Deviation	22.57	23.31
Variance	509.37	543.24
Skewness	9.65	9.62
Kurtosis	132.23	129.37
Coefficient of Variability	3.42	3.34
Minimum	0.00	0.00
Maximum	499.04	499.50
Range Width	499.04	499.50
Mean Standard Error	0.10	---

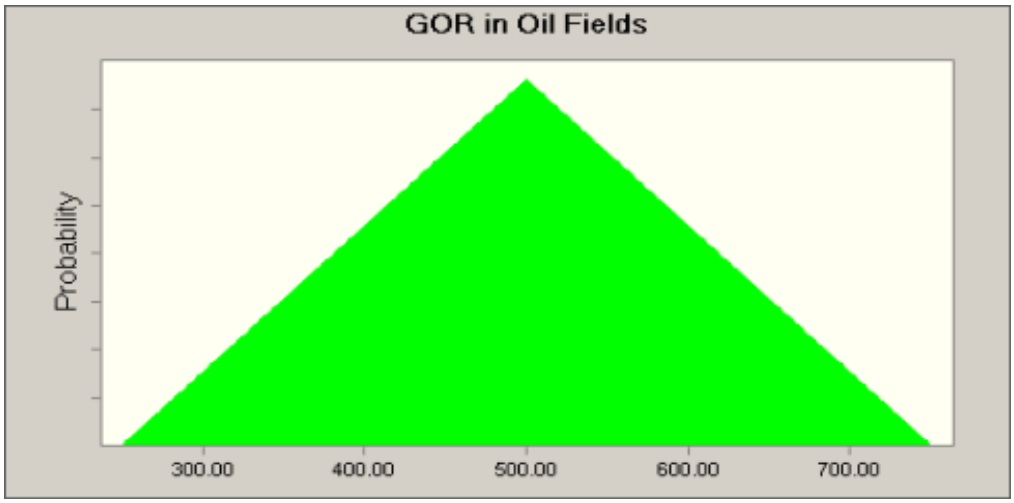
Assumption: Sizes of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.04	0.04
90%	0.09	0.09
85%	0.14	0.14
80%	0.21	0.21
75%	0.29	0.29
70%	0.39	0.39
65%	0.51	0.51
60%	0.67	0.66
55%	0.86	0.86
50%	1.11	1.10
45%	1.42	1.41
40%	1.81	1.81
35%	2.34	2.35
30%	3.08	3.09
25%	4.11	4.16
20%	5.66	5.79
15%	8.24	8.50
10%	13.32	13.77
5%	27.19	28.05
0%	499.04	499.50

Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	250.00
Likeliest	500.00
Maximum	750.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	500.45	500.00
Median	499.62	500.00
Mode	---	500.00
Standard Deviation	102.21	102.06
Variance	10,446.10	10,416.67
Skewness	0.0039	0.00
Kurtosis	2.39	5.40
Coefficient of Variability	0.2042	0.2041
Minimum	250.99	250.00
Maximum	749.26	750.00
Range Width	498.28	500.00
Mean Standard Error	0.46	---

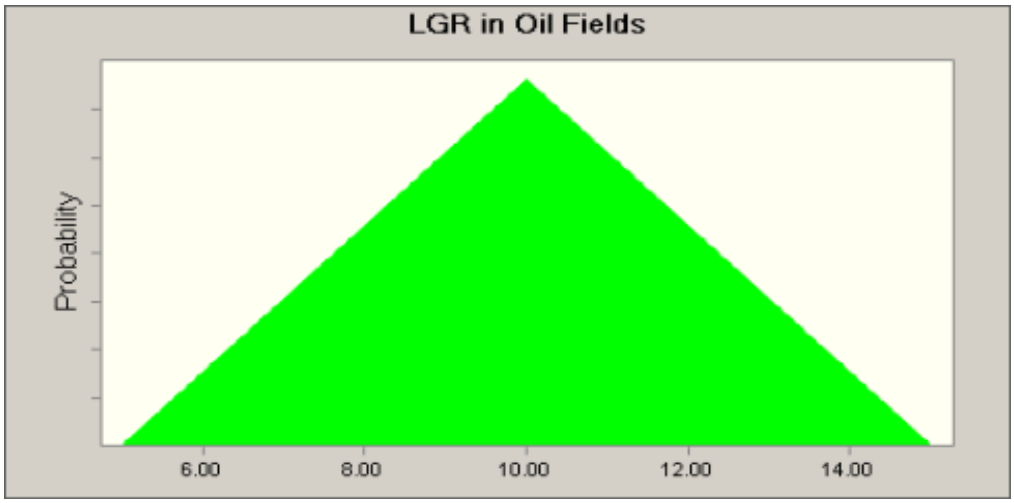
Assumption: GOR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	250.99	250.00
95%	328.70	329.06
90%	361.24	361.80
85%	387.17	386.93
80%	409.27	408.11
75%	427.36	426.78
70%	443.99	443.65
65%	459.45	459.17
60%	473.95	473.61
55%	487.31	487.17
50%	499.62	500.00
45%	512.64	512.83
40%	526.96	526.39
35%	541.11	540.83
30%	556.83	556.35
25%	573.90	573.22
20%	592.45	591.89
15%	613.89	613.07
10%	639.23	638.20
5%	671.88	670.94
0%	749.26	750.00

Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	5.00
Likeliest	10.00
Maximum	15.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	10.01	10.00
Median	10.00	10.00
Mode	---	10.00
Standard Deviation	2.04	2.04
Variance	4.16	4.17
Skewness	-1.9081E-04	0.00
Kurtosis	2.40	5.40
Coefficient of Variability	0.2037	0.2041
Minimum	5.03	5.00
Maximum	14.98	15.00
Range Width	9.95	10.00
Mean Standard Error	0.01	---

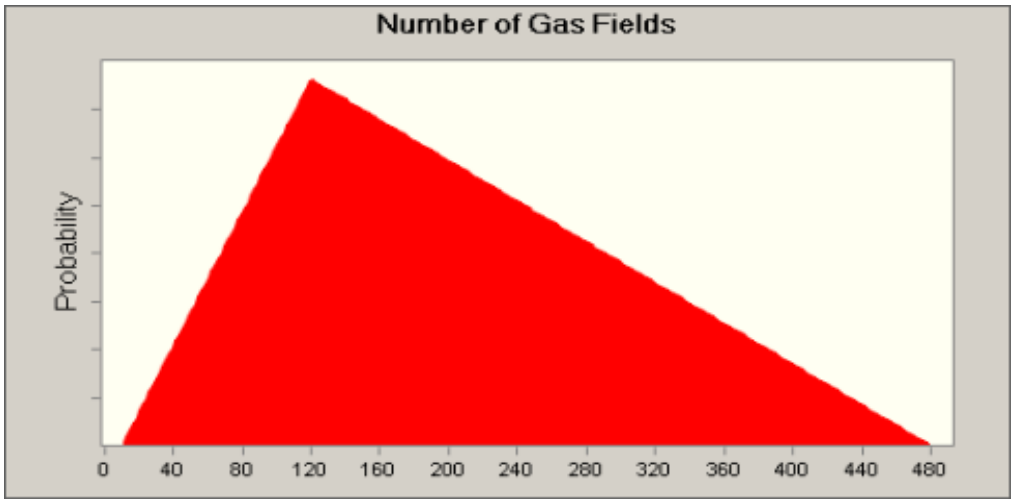
Assumption: LGR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	5.03	5.00
95%	6.59	6.58
90%	7.26	7.24
85%	7.76	7.74
80%	8.19	8.16
75%	8.55	8.54
70%	8.87	8.87
65%	9.18	9.18
60%	9.47	9.47
55%	9.74	9.74
50%	10.00	10.00
45%	10.27	10.26
40%	10.54	10.53
35%	10.83	10.82
30%	11.14	11.13
25%	11.48	11.46
20%	11.86	11.84
15%	12.27	12.26
10%	12.76	12.76
5%	13.42	13.42
0%	14.98	15.00

Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	120
Maximum	480



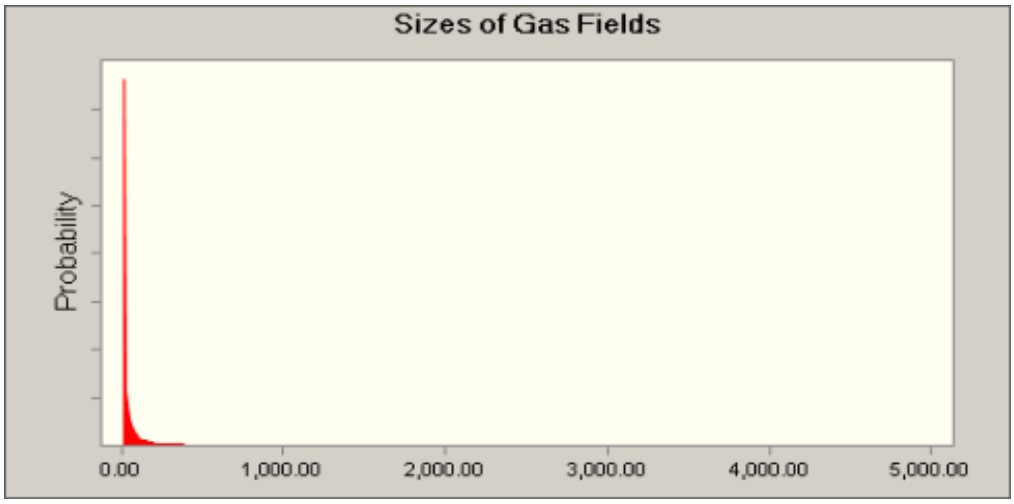
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	203	203
Median	189	189
Mode	---	120
Standard Deviation	100	100
Variance	10,088	10,072
Skewness	0.4376	0.4410
Kurtosis	2.39	5.40
Coefficient of Variability	0.4952	0.4936
Minimum	10	10
Maximum	479	480
Range Width	469	470
Mean Standard Error	0	---

Assumption: Number of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	10	10
95%	60	61
90%	81	82
85%	97	98
80%	111	112
75%	124	124
70%	135	136
65%	148	148
60%	161	161
55%	174	175
50%	189	189
45%	204	204
40%	219	220
35%	236	237
30%	255	255
25%	275	274
20%	296	296
15%	320	321
10%	349	350
5%	386	388
0%	479	480

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	67.14	70.14
Standard Deviation	640.45	640.45
Selected range is from -Infinity to 4,997.00		3.00 to 5,000.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	56.59	58.77
Median	7.01	6.98
Mode	---	---
Standard Deviation	221.73	217.73
Variance	49,166.28	47,405.52
Skewness	10.57	10.63
Kurtosis	153.86	155.22
Coefficient of Variability	3.92	3.70
Minimum	0.00	0.00
Maximum	4,924.20	4,997.00
Range Width	4,924.20	4,997.00
Mean Standard Error	0.99	---

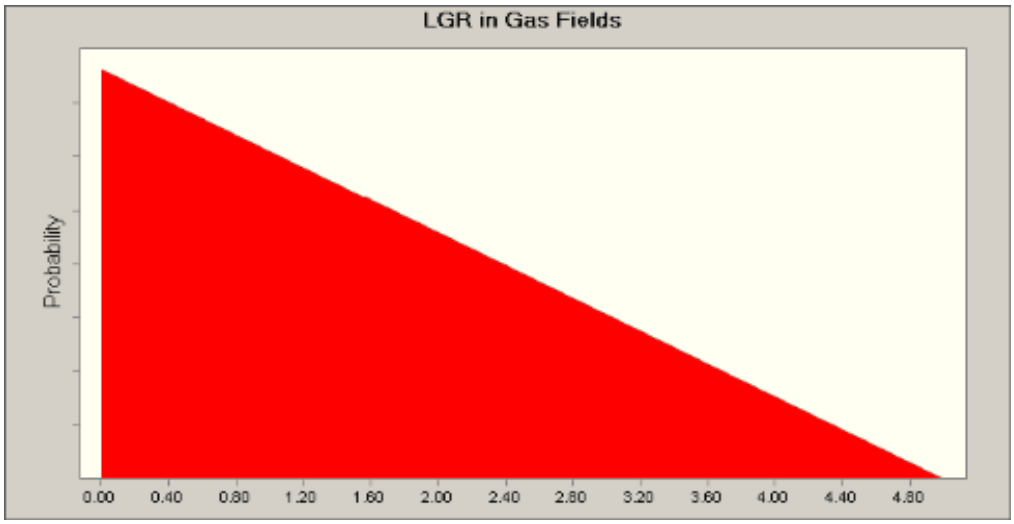
Assumption: Sizes of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.21	0.21
90%	0.46	0.46
85%	0.77	0.77
80%	1.18	1.17
75%	1.68	1.67
70%	2.27	2.29
65%	3.08	3.08
60%	4.03	4.08
55%	5.34	5.35
50%	7.01	6.98
45%	9.14	9.12
40%	11.93	11.96
35%	15.94	15.82
30%	21.31	21.26
25%	29.47	29.23
20%	42.12	41.66
15%	62.65	62.93
10%	106.07	105.65
5%	227.53	226.81
0%	4,924.20	4,997.00

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	0.00
Likeliest	0.00
Maximum	5.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1.67	1.67
Median	1.47	1.46
Mode	---	0.00
Standard Deviation	1.17	1.18
Variance	1.38	1.39
Skewness	0.5585	0.5657
Kurtosis	2.40	5.40
Coefficient of Variability	0.7024	0.7071
Minimum	0.00	0.00
Maximum	4.98	5.00
Range Width	4.98	5.00
Mean Standard Error	0.01	---

Assumption: LGR in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.13	0.13
90%	0.27	0.26
85%	0.40	0.39
80%	0.53	0.53
75%	0.67	0.67
70%	0.82	0.82
65%	0.98	0.97
60%	1.14	1.13
55%	1.31	1.29
50%	1.47	1.46
45%	1.65	1.65
40%	1.84	1.84
35%	2.05	2.04
30%	2.26	2.26
25%	2.50	2.50
20%	2.76	2.76
15%	3.05	3.06
10%	3.41	3.42
5%	3.86	3.88
0%	4.98	5.00

End of Assumptions

Simulation started on 3/31/2011 at 9:55 AM
Simulation stopped on 3/31/2011 at 10:27 AM