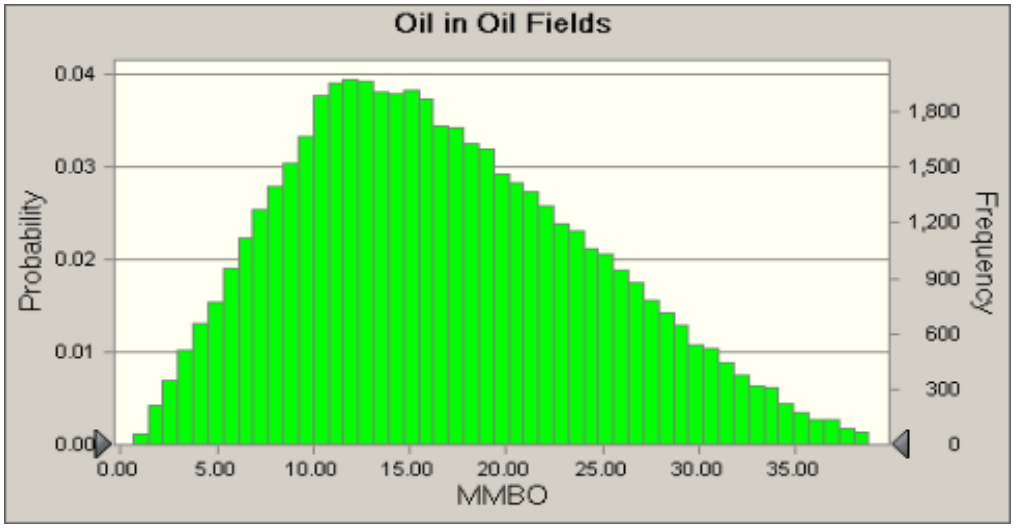
50580105
Mississippian
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:
Entire range is from 0.62 to 49.17
After 50,000 trials, the standard error of the mean is 0.04



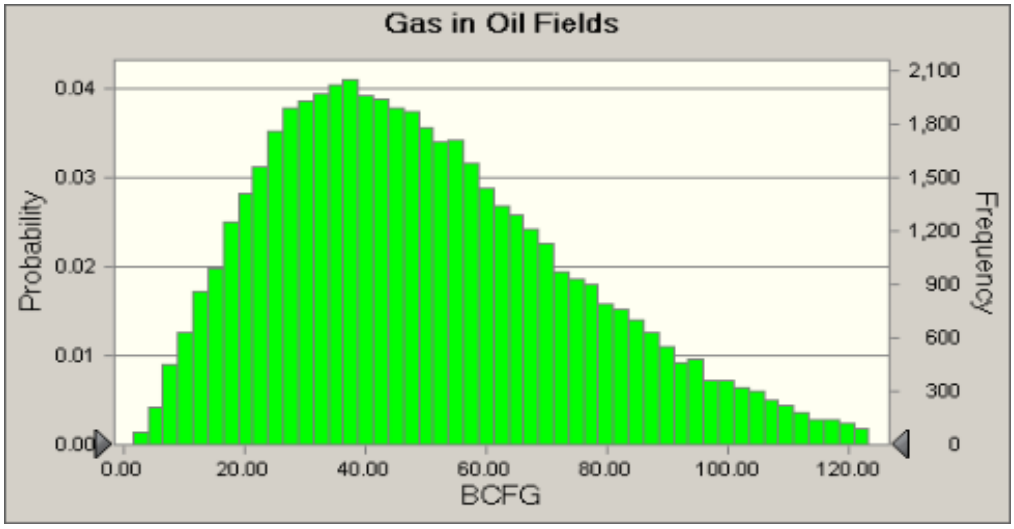
Statistics:	Forecast values
Trials	50,000
Mean	16.77
Median	15.84
Mode	---
Standard Deviation	7.87
Variance	61.89
Skewness	0.4575
Kurtosis	2.72
Coefficient of Variability	0.4692
Minimum	0.62
Maximum	49.17
Range Width	48.55
Mean Standard Error	0.04

Forecast: Oil in Oil Fields (cont'd)

Percentiles:	MMBO
100%	0.62
95%	5.26
90%	7.10
85%	8.53
80%	9.75
75%	10.80
70%	11.80
65%	12.78
60%	13.81
55%	14.82
50%	15.84
45%	16.94
40%	18.09
35%	19.31
30%	20.66
25%	22.08
20%	23.72
15%	25.55
10%	27.78
5%	30.96
0%	49.17

Forecast: Gas in Oil Fields

Summary:
Entire range is from 1.37 to 202.21
After 50,000 trials, the standard error of the mean is 0.12



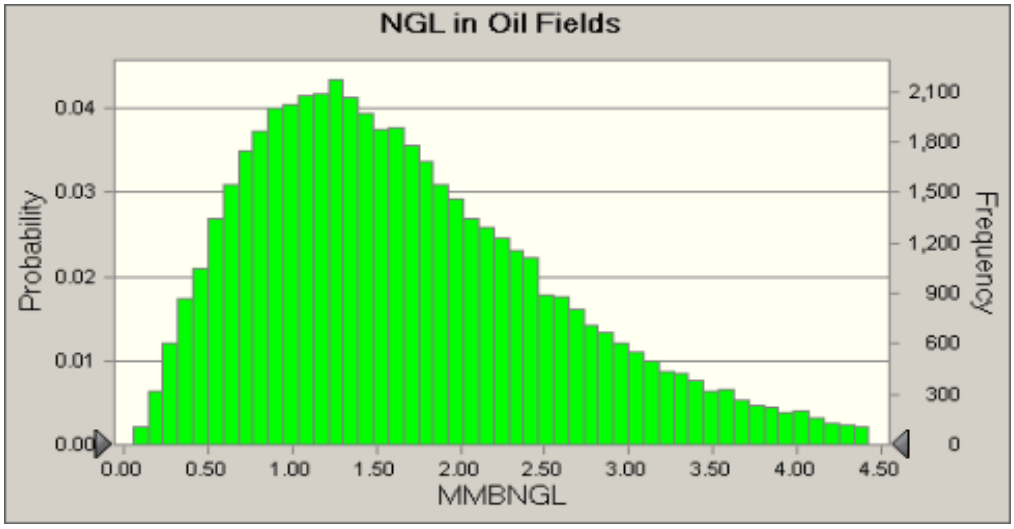
Statistics:	Forecast values
Trials	50,000
Mean	50.32
Median	46.46
Mode	---
Standard Deviation	26.11
Variance	681.85
Skewness	0.7582
Kurtosis	3.46
Coefficient of Variability	0.5189
Minimum	1.37
Maximum	202.21
Range Width	200.84
Mean Standard Error	0.12

Forecast: Gas in Oil Fields (cont'd)

Percentiles:	BCFG
100%	1.37
95%	14.57
90%	19.86
85%	23.92
80%	27.39
75%	30.61
70%	33.81
65%	36.84
60%	39.99
55%	43.17
50%	46.46
45%	49.81
40%	53.43
35%	57.09
30%	61.34
25%	66.11
20%	71.48
15%	78.18
10%	86.47
5%	99.37
0%	202.21

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.05 to 7.99
After 50,000 trials, the standard error of the mean is 0.00



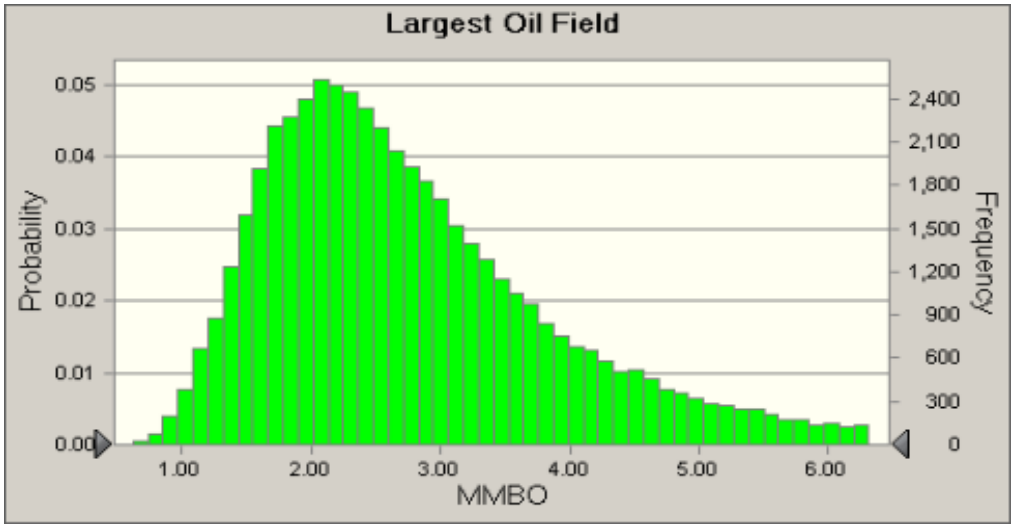
Statistics:	Forecast values
Trials	50,000
Mean	1.71
Median	1.53
Mode	---
Standard Deviation	0.97
Variance	0.94
Skewness	1.03
Kurtosis	4.35
Coefficient of Variability	0.5671
Minimum	0.05
Maximum	7.99
Range Width	7.94
Mean Standard Error	0.00

Forecast: NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
100%	0.05
95%	0.46
90%	0.63
85%	0.76
80%	0.88
75%	0.99
70%	1.10
65%	1.21
60%	1.31
55%	1.42
50%	1.53
45%	1.65
40%	1.78
35%	1.92
30%	2.07
25%	2.25
20%	2.45
15%	2.70
10%	3.03
5%	3.57
0%	7.99

Forecast: Largest Oil Field

Summary:
Entire range is from 0.62 to 8.00
After 50,000 trials, the standard error of the mean is 0.01



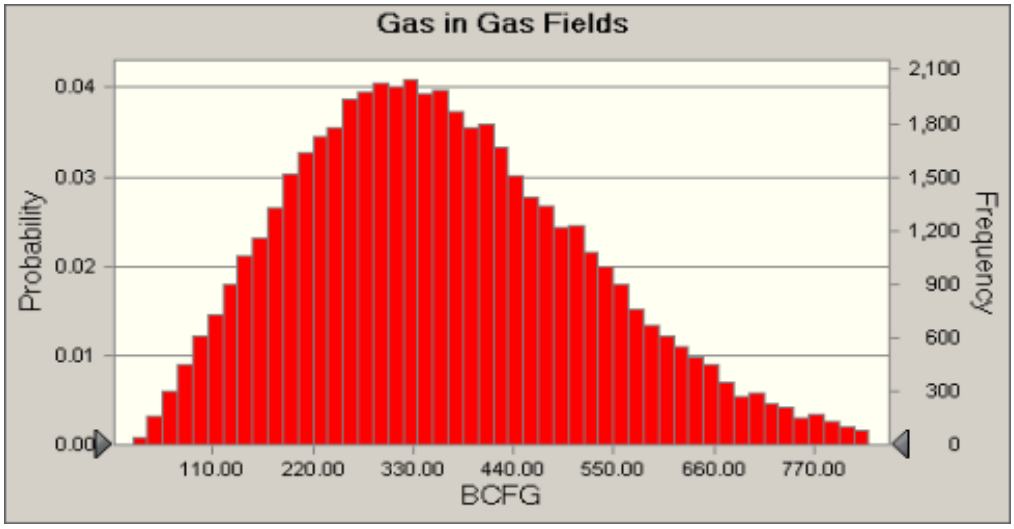
Statistics:	Forecast values
Trials	50,000
Mean	2.83
Median	2.55
Mode	---
Standard Deviation	1.24
Variance	1.55
Skewness	1.28
Kurtosis	4.85
Coefficient of Variability	0.4402
Minimum	0.62
Maximum	8.00
Range Width	7.38
Mean Standard Error	0.01

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMBO
100%	0.62
95%	1.34
90%	1.54
85%	1.69
80%	1.82
75%	1.94
70%	2.07
65%	2.18
60%	2.30
55%	2.42
50%	2.55
45%	2.68
40%	2.83
35%	3.00
30%	3.18
25%	3.40
20%	3.67
15%	4.02
10%	4.51
5%	5.35
0%	8.00

Forecast: Gas in Gas Fields

Summary:
Entire range is from 22.20 to 1,298.14
After 50,000 trials, the standard error of the mean is 0.74



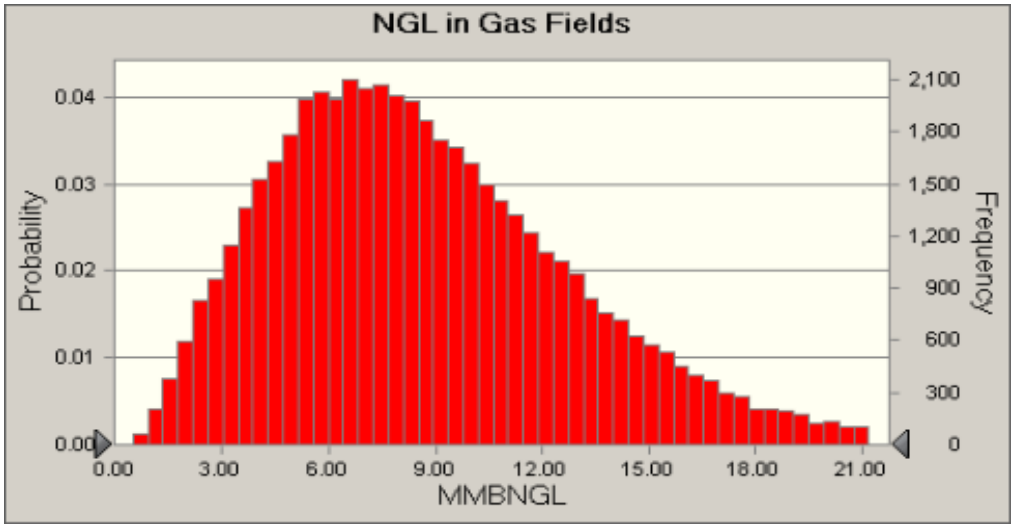
Statistics:	Forecast values
Trials	50,000
Mean	366.64
Median	349.71
Mode	---
Standard Deviation	165.60
Variance	27,423.15
Skewness	0.6237
Kurtosis	3.46
Coefficient of Variability	0.4517
Minimum	22.20
Maximum	1,298.14
Range Width	1,275.94
Mean Standard Error	0.74

Forecast: Gas in Gas Fields (cont'd)

Percentiles:	BCFG
100%	22.20
95%	125.25
90%	165.21
85%	196.08
80%	221.48
75%	245.48
70%	267.14
65%	287.89
60%	308.47
55%	328.52
50%	349.71
45%	370.35
40%	392.59
35%	415.78
30%	440.91
25%	469.88
20%	502.20
15%	538.40
10%	587.46
5%	662.87
0%	1,298.14

Forecast: NGL in Gas Fields

Summary:
Entire range is from 0.47 to 35.65
After 50,000 trials, the standard error of the mean is 0.02



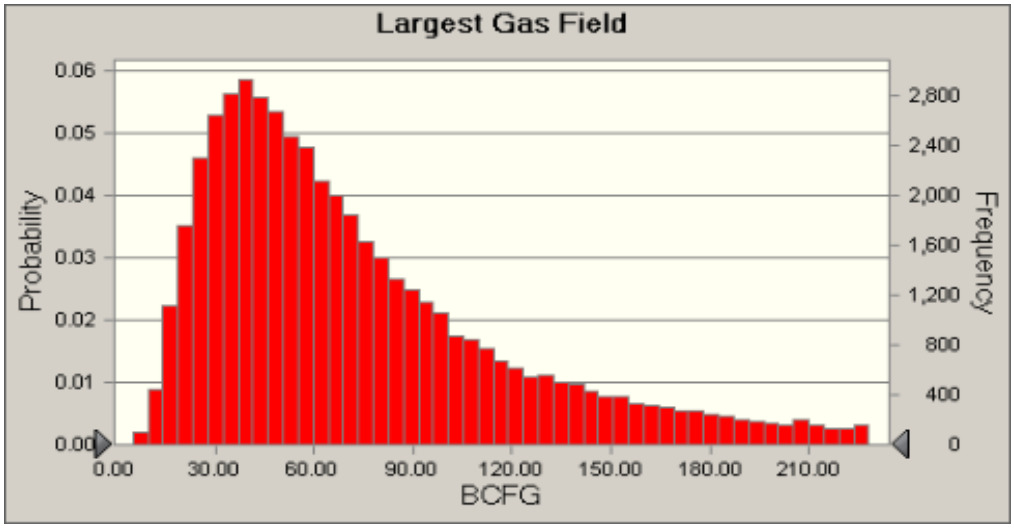
Statistics:	Forecast values
Trials	50,000
Mean	8.80
Median	8.15
Mode	---
Standard Deviation	4.43
Variance	19.60
Skewness	0.9053
Kurtosis	4.21
Coefficient of Variability	0.5032
Minimum	0.47
Maximum	35.65
Range Width	35.18
Mean Standard Error	0.02

Forecast: NGL in Gas Fields (cont'd)

Percentiles:	MMBNGL
100%	0.47
95%	2.77
90%	3.69
85%	4.39
80%	5.01
75%	5.55
70%	6.07
65%	6.59
60%	7.11
55%	7.61
50%	8.15
45%	8.70
40%	9.27
35%	9.90
30%	10.58
25%	11.36
20%	12.24
15%	13.29
10%	14.72
5%	16.93
0%	35.65

Forecast: Largest Gas Field

Summary:
Entire range is from 4.96 to 299.79
After 50,000 trials, the standard error of the mean is 0.24



Statistics:	Forecast values
Trials	50,000
Mean	76.94
Median	60.92
Mode	---
Standard Deviation	54.00
Variance	2,916.14
Skewness	1.55
Kurtosis	5.41
Coefficient of Variability	0.7018
Minimum	4.96
Maximum	299.79
Range Width	294.83
Mean Standard Error	0.24

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
100%	4.96
95%	20.92
90%	26.47
85%	30.83
80%	35.00
75%	38.91
70%	42.90
65%	47.02
60%	51.38
55%	56.02
50%	60.92
45%	66.50
40%	72.47
35%	79.65
30%	87.78
25%	97.68
20%	110.32
15%	127.81
10%	151.98
5%	193.90
0%	299.79

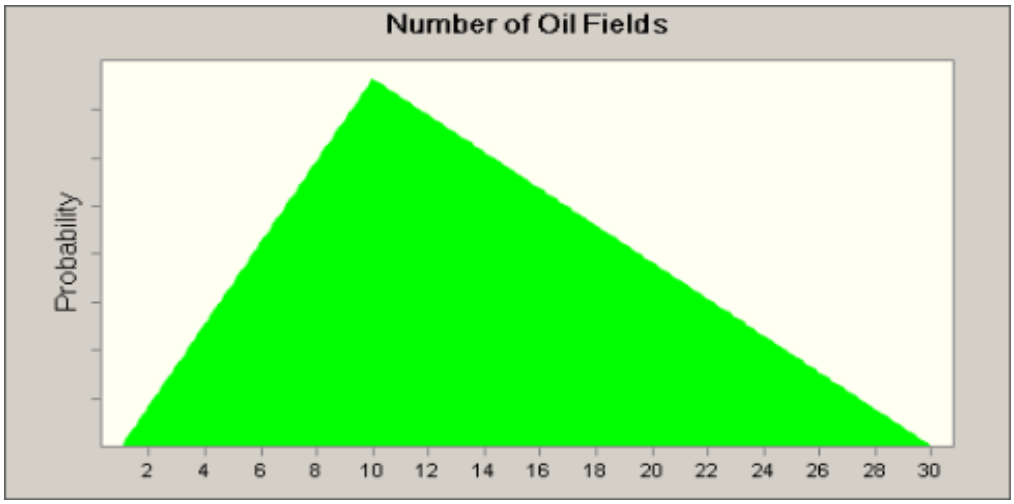
End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	10
Maximum	30



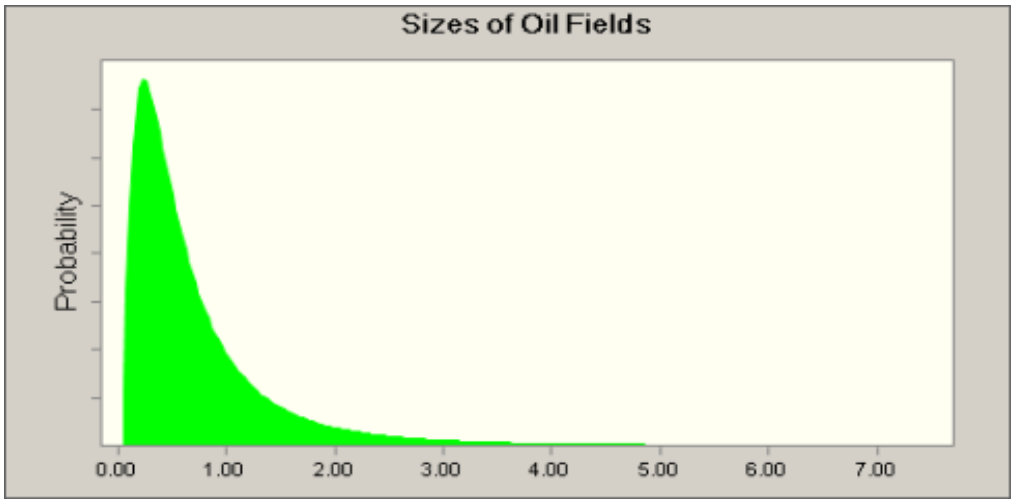
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	14	14
Median	13	13
Mode	---	10
Standard Deviation	6	6
Variance	36	37
Skewness	0.3348	0.3409
Kurtosis	2.41	5.40
Coefficient of Variability	0.4401	0.4434
Minimum	1	1
Maximum	30	30
Range Width	29	29
Mean Standard Error	0	---

Assumption: Number of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	1	1
95%	5	5
90%	6	6
85%	7	7
80%	8	8
75%	9	9
70%	10	10
65%	11	11
60%	11	11
55%	12	12
50%	13	13
45%	14	14
40%	15	15
35%	16	16
30%	17	17
25%	18	18
20%	19	19
15%	21	21
10%	22	22
5%	25	25
0%	30	30

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	0.73	1.23
Standard Deviation	0.79	0.79
Selected range is from -Infinity to 7.50		0.50 to 8.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	0.73	0.72
Median	0.50	0.50
Mode	---	---
Standard Deviation	0.74	0.73
Variance	0.55	0.53
Skewness	2.94	2.96
Kurtosis	15.81	16.23
Coefficient of Variability	1.01	1.01
Minimum	0.02	0.00
Maximum	7.47	7.50
Range Width	7.46	7.50
Mean Standard Error	0.00	---

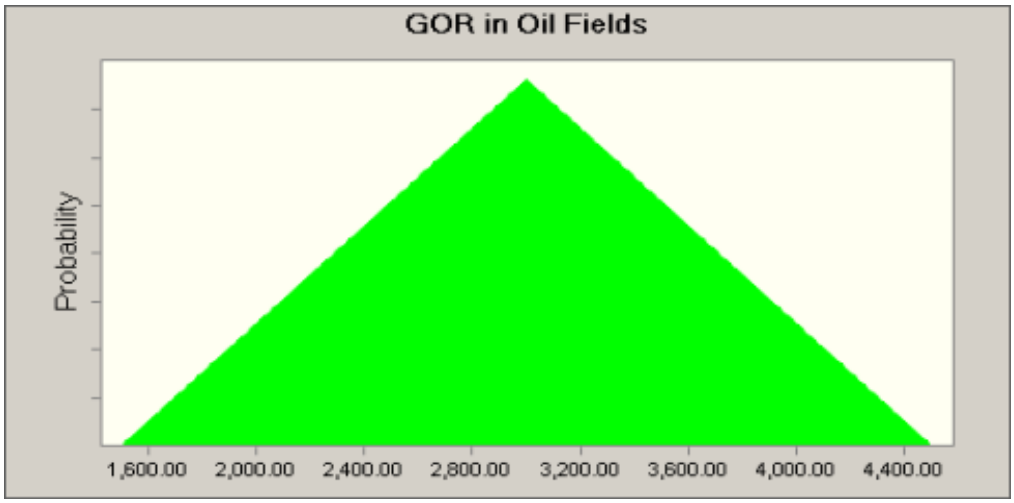
Assumption: Sizes of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	0.02	0.00
95%	0.12	0.12
90%	0.16	0.16
85%	0.20	0.20
80%	0.24	0.24
75%	0.28	0.28
70%	0.32	0.32
65%	0.36	0.36
60%	0.40	0.40
55%	0.45	0.45
50%	0.50	0.50
45%	0.56	0.56
40%	0.63	0.62
35%	0.70	0.70
30%	0.79	0.79
25%	0.91	0.90
20%	1.05	1.04
15%	1.25	1.24
10%	1.55	1.53
5%	2.14	2.10
0%	7.47	7.50

Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,500.00
Likeliest	3,000.00
Maximum	4,500.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	3,003.97	3,000.00
Median	3,006.50	3,000.00
Mode	---	3,000.00
Standard Deviation	614.18	612.37
Variance	377,219.35	375,000.00
Skewness	-0.0059	0.00
Kurtosis	2.38	5.40
Coefficient of Variability	0.2045	0.2041
Minimum	1,514.35	1,500.00
Maximum	4,492.19	4,500.00
Range Width	2,977.84	3,000.00
Mean Standard Error	2.75	---

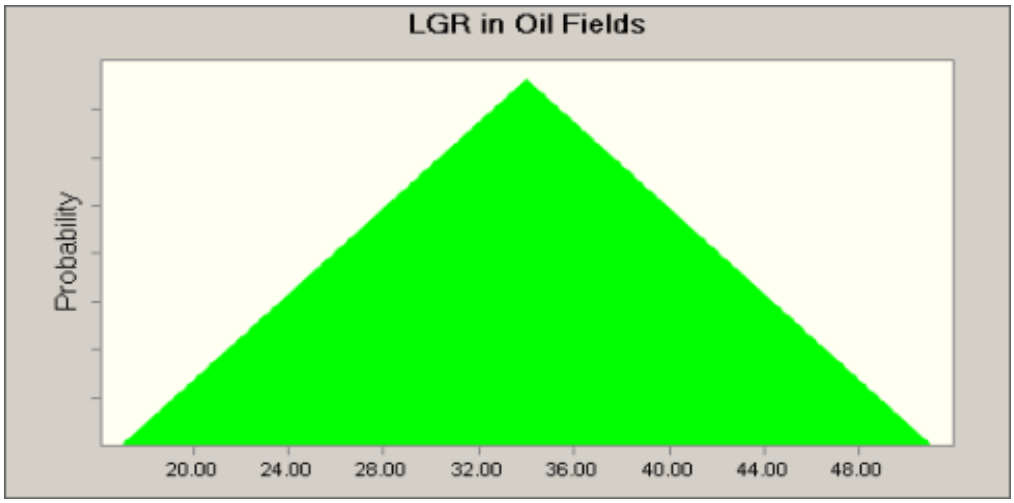
Assumption: GOR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	1,514.35	1,500.00
95%	1,979.78	1,974.34
90%	2,170.81	2,170.82
85%	2,320.43	2,321.58
80%	2,449.27	2,448.68
75%	2,561.36	2,560.66
70%	2,664.23	2,661.90
65%	2,757.63	2,754.99
60%	2,843.41	2,841.64
55%	2,926.42	2,923.02
50%	3,006.49	3,000.00
45%	3,082.79	3,076.98
40%	3,164.36	3,158.36
35%	3,251.01	3,245.01
30%	3,345.40	3,338.10
25%	3,446.43	3,439.34
20%	3,559.02	3,551.32
15%	3,687.83	3,678.42
10%	3,834.32	3,829.18
5%	4,030.61	4,025.66
0%	4,492.19	4,500.00

Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	17.00
Likeliest	34.00
Maximum	51.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	34.01	34.00
Median	34.01	34.00
Mode	---	34.00
Standard Deviation	6.94	6.94
Variance	48.22	48.17
Skewness	-0.0023	0.00
Kurtosis	2.40	5.40
Coefficient of Variability	0.2042	0.2041
Minimum	17.02	17.00
Maximum	50.91	51.00
Range Width	33.88	34.00
Mean Standard Error	0.03	---

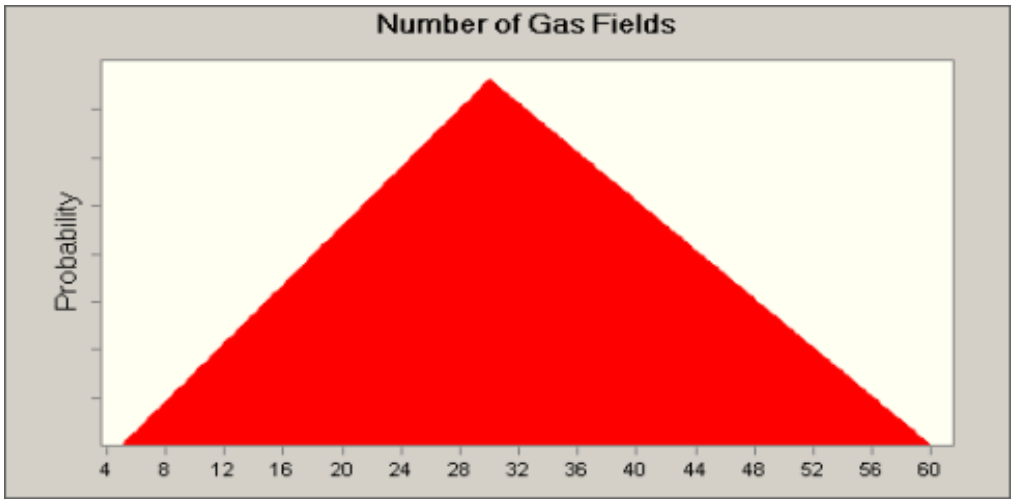
Assumption: LGR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	17.02	17.00
95%	22.37	22.38
90%	24.60	24.60
85%	26.30	26.31
80%	27.75	27.75
75%	29.02	29.02
70%	30.18	30.17
65%	31.24	31.22
60%	32.22	32.21
55%	33.15	33.13
50%	34.01	34.00
45%	34.89	34.87
40%	35.83	35.79
35%	36.82	36.78
30%	37.85	37.83
25%	38.97	38.98
20%	40.24	40.25
15%	41.70	41.69
10%	43.41	43.40
5%	45.65	45.62
0%	50.91	51.00

Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	5
Likeliest	30
Maximum	60



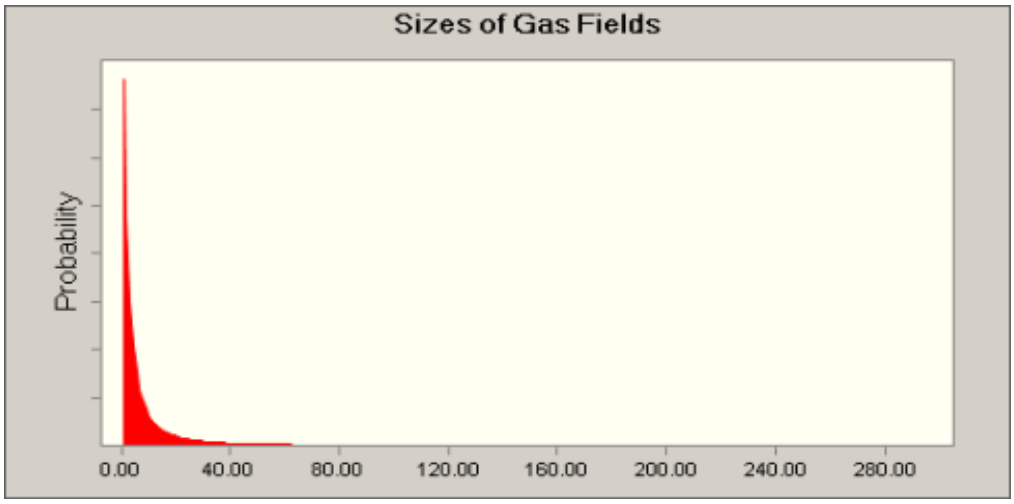
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	32	32
Median	31	31
Mode	---	30
Standard Deviation	11	11
Variance	126	126
Skewness	0.0920	0.0886
Kurtosis	2.41	5.40
Coefficient of Variability	0.3549	0.3550
Minimum	5	5
Maximum	60	60
Range Width	55	55
Mean Standard Error	0	---

Assumption: Number of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	5	5
95%	13	13
90%	17	17
85%	19	19
80%	22	22
75%	24	24
70%	25	25
65%	27	27
60%	28	28
55%	30	30
50%	31	31
45%	33	33
40%	34	34
35%	36	36
30%	38	38
25%	40	40
20%	42	42
15%	44	44
10%	47	47
5%	51	51
0%	60	60

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Location	0.00	
Mean	9.06	12.06
Standard Deviation	25.84	25.84
Selected range is from -Infinity to 297.00		3.00 to 300.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	8.59	8.59
Median	2.96	2.99
Mode	---	---
Standard Deviation	18.77	18.34
Variance	352.24	336.24
Skewness	6.33	6.32
Kurtosis	59.34	60.37
Coefficient of Variability	2.18	2.13
Minimum	0.00	0.00
Maximum	289.20	297.00
Range Width	289.20	297.00
Mean Standard Error	0.08	---

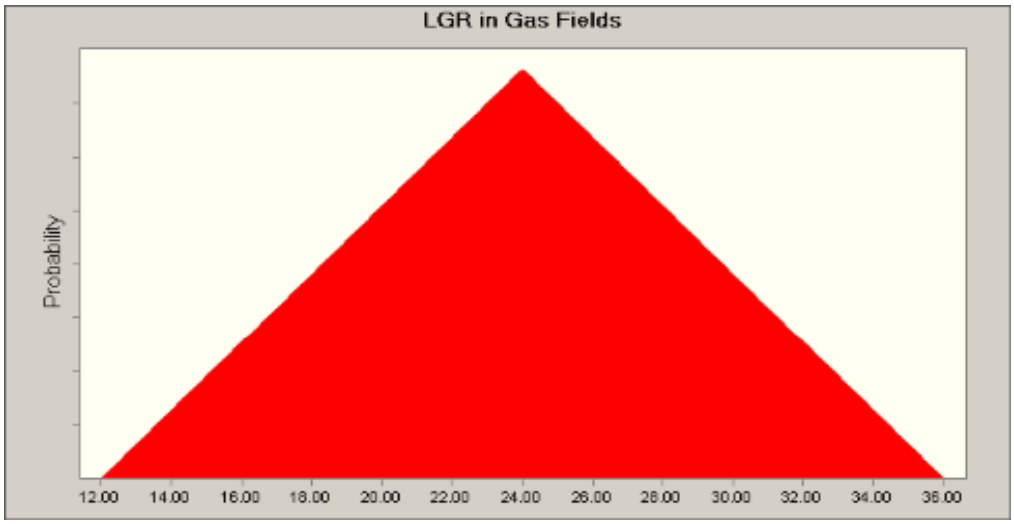
Assumption: Sizes of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	0.00	0.00
95%	0.26	0.26
90%	0.45	0.45
85%	0.64	0.64
80%	0.85	0.86
75%	1.10	1.10
70%	1.36	1.37
65%	1.66	1.69
60%	2.02	2.06
55%	2.46	2.48
50%	2.96	2.99
45%	3.55	3.61
40%	4.29	4.36
35%	5.21	5.31
30%	6.40	6.52
25%	7.99	8.15
20%	10.20	10.44
15%	13.72	13.94
10%	19.74	20.02
5%	34.59	34.16
0%	289.20	297.00

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	12.00
Likeliest	24.00
Maximum	36.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	24.01	24.00
Median	24.01	24.00
Mode	---	24.00
Standard Deviation	4.88	4.90
Variance	23.78	24.00
Skewness	9.7775E-04	0.00
Kurtosis	2.41	5.40
Coefficient of Variability	0.2031	0.2041
Minimum	12.01	12.00
Maximum	35.92	36.00
Range Width	23.91	24.00
Mean Standard Error	0.02	---

Assumption: LGR in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
100%	12.01	12.00
95%	15.85	15.79
90%	17.43	17.37
85%	18.62	18.57
80%	19.62	19.59
75%	20.51	20.49
70%	21.30	21.30
65%	22.04	22.04
60%	22.75	22.73
55%	23.40	23.38
50%	24.01	24.00
45%	24.62	24.62
40%	25.27	25.27
35%	25.95	25.96
30%	26.69	26.70
25%	27.49	27.51
20%	28.39	28.41
15%	29.40	29.43
10%	30.61	30.63
5%	32.17	32.21
0%	35.92	36.00

End of Assumptions

Simulation started on 11/16/2010 at 4:29 PM
Simulation stopped on 11/16/2010 at 4:43 PM