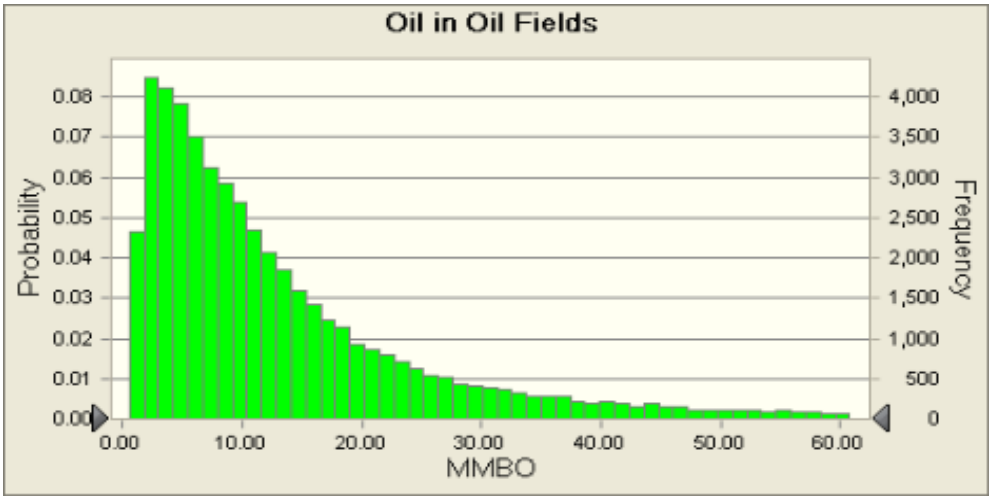
Forecast: Oil in Oil Fields

Summary:
Entire range is from 0.50 to 203.04
After 50,000 trials, the standard error of the mean is 0.07



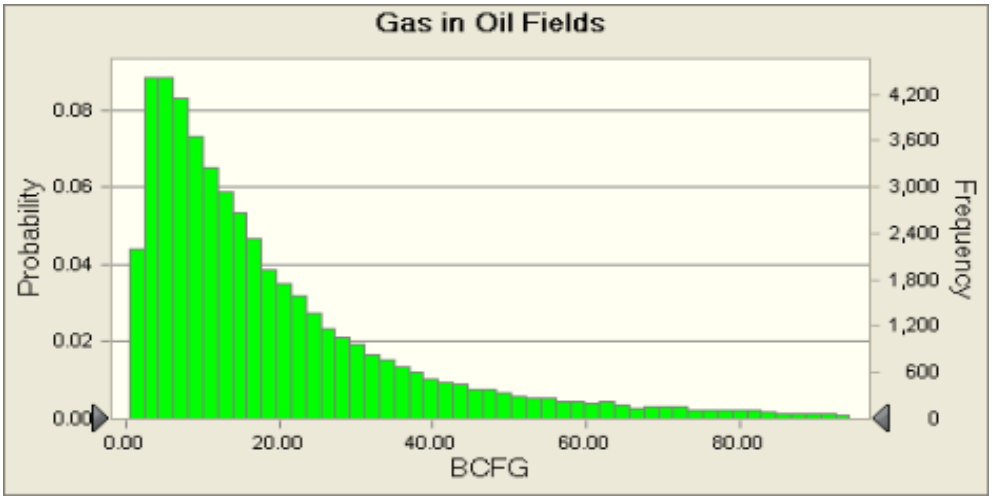
Statistics:	Forecast values
Trials	50,000
Mean	14.63
Median	9.48
Mode	---
Standard Deviation	16.49
Variance	272.08
Skewness	3.13
Kurtosis	17.09
Coefficient of Variability	1.13
Minimum	0.50
Maximum	203.04
Range Width	202.53
Mean Standard Error	0.07

Forecast: Oil in Oil Fields (cont'd)

Percentiles:	MMBO
P100	0.50
P95	1.80
P90	2.51
P85	3.26
P80	3.98
P75	4.75
P70	5.56
P65	6.44
P60	7.38
P55	8.42
P50	9.48
P45	10.69
P40	12.04
P35	13.62
P30	15.49
P25	17.85
P20	20.96
P15	25.24
P10	32.17
P5	45.45
P0	203.04

Forecast: Gas in Oil Fields

Summary:
Entire range is from 0.48 to 380.47
After 50,000 trials, the standard error of the mean is 0.12



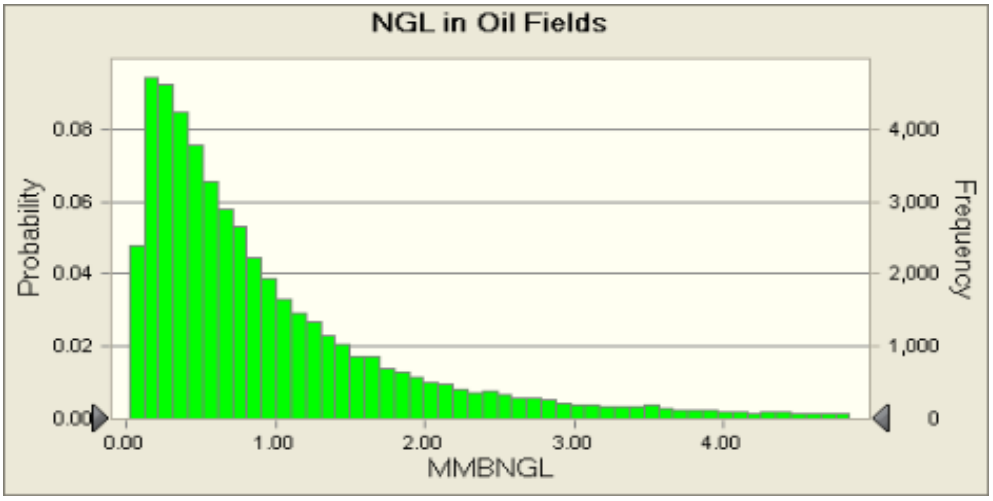
Statistics:	Forecast values
Trials	50,000
Mean	21.98
Median	13.87
Mode	---
Standard Deviation	25.79
Variance	665.35
Skewness	3.42
Kurtosis	20.93
Coefficient of Variability	1.17
Minimum	0.48
Maximum	380.47
Range Width	379.99
Mean Standard Error	0.12

Forecast: Gas in Oil Fields (cont'd)

Percentiles:	BCFG
P100	0.48
P95	2.53
P90	3.62
P85	4.68
P80	5.75
P75	6.88
P70	8.06
P65	9.33
P60	10.75
P55	12.22
P50	13.87
P45	15.66
P40	17.69
P35	20.17
P30	23.07
P25	26.68
P20	31.44
P15	37.99
P10	48.56
P5	69.83
P0	380.47

Forecast: NGL in Oil Fields

Summary:
Entire range is from 0.02 to 27.84
After 50,000 trials, the standard error of the mean is 0.01



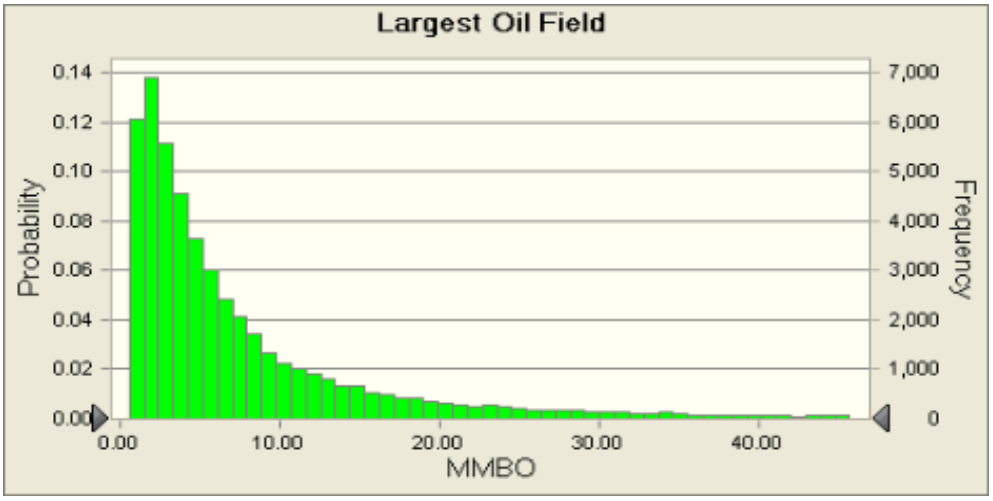
Statistics:	Forecast values
Trials	50,000
Mean	1.10
Median	0.68
Mode	---
Standard Deviation	1.34
Variance	1.79
Skewness	3.80
Kurtosis	27.71
Coefficient of Variability	1.22
Minimum	0.02
Maximum	27.84
Range Width	27.82
Mean Standard Error	0.01

Forecast: NGL in Oil Fields (cont'd)

Percentiles:	MMBNGL
P100	0.02
P95	0.12
P90	0.17
P85	0.22
P80	0.28
P75	0.33
P70	0.39
P65	0.45
P60	0.52
P55	0.59
P50	0.68
P45	0.77
P40	0.87
P35	0.99
P30	1.15
P25	1.33
P20	1.57
P15	1.91
P10	2.45
P5	3.52
P0	27.84

Forecast: Largest Oil Field

Summary:
Entire range is from 0.50 to 129.55
After 50,000 trials, the standard error of the mean is 0.06



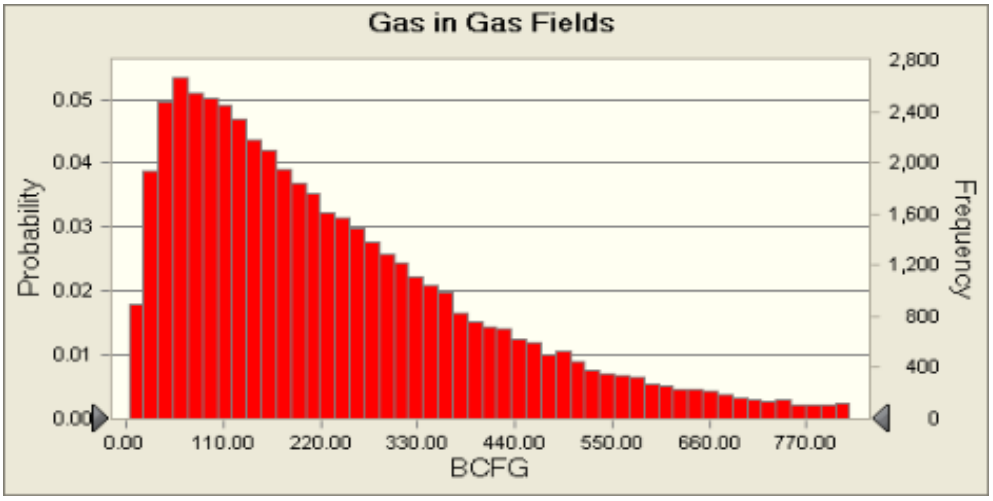
Statistics:	Forecast values
Trials	50,000
Mean	9.03
Median	4.65
Mode	---
Standard Deviation	13.09
Variance	171.35
Skewness	3.92
Kurtosis	23.54
Coefficient of Variability	1.45
Minimum	0.50
Maximum	129.55
Range Width	129.05
Mean Standard Error	0.06

Forecast: Largest Oil Field (cont'd)

Percentiles:	MMO
P100	0.50
P95	0.97
P90	1.29
P85	1.61
P80	1.93
P75	2.28
P70	2.66
P65	3.07
P60	3.54
P55	4.05
P50	4.65
P45	5.32
P40	6.12
P35	7.10
P30	8.28
P25	9.88
P20	12.13
P15	15.32
P10	20.68
P5	32.54
P0	129.55

Forecast: Gas in Gas Fields

Summary:
Entire range is from 3.07 to 1,867.05
After 50,000 trials, the standard error of the mean is 0.91



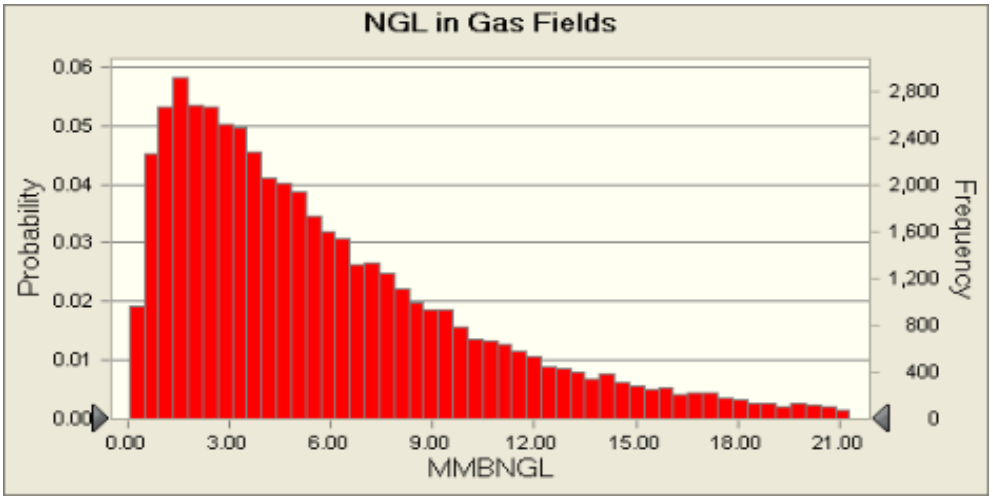
Statistics:	Forecast values
Trials	50,000
Mean	248.65
Median	194.58
Mode	---
Standard Deviation	203.62
Variance	41,461.17
Skewness	1.63
Kurtosis	6.62
Coefficient of Variability	0.8189
Minimum	3.07
Maximum	1,867.05
Range Width	1,863.97
Mean Standard Error	0.91

Forecast: Gas in Gas Fields (cont'd)

Percentiles:	BCFG
P100	3.07
P95	33.95
P90	50.91
P85	66.50
P80	82.96
P75	99.25
P70	116.01
P65	133.83
P60	152.81
P55	172.70
P50	194.57
P45	217.94
P40	243.85
P35	271.13
P30	302.50
P25	338.56
P20	381.88
P15	439.34
P10	516.61
P5	654.96
P0	1,867.05

Forecast: NGL in Gas Fields

Summary:
Entire range is from 0.05 to 57.41
After 50,000 trials, the standard error of the mean is 0.02



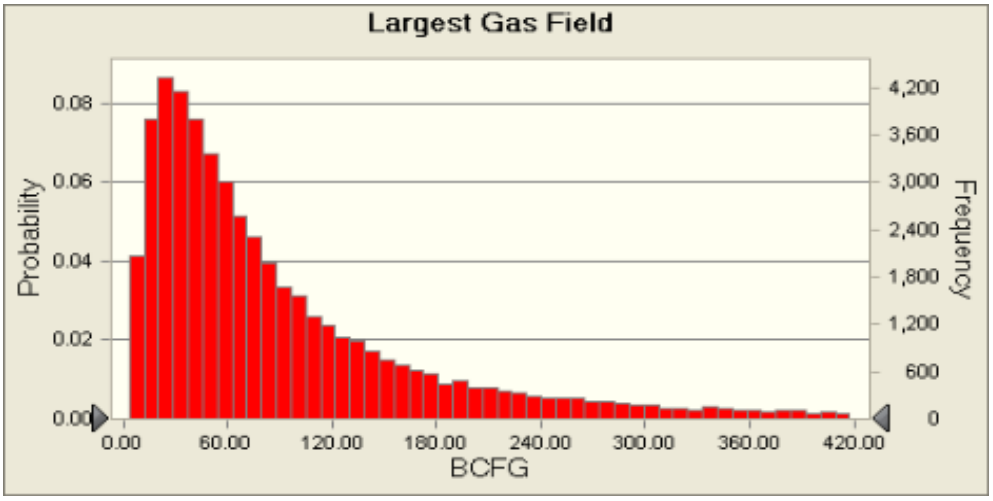
Statistics:	Forecast values
Trials	50,000
Mean	6.22
Median	4.72
Mode	---
Standard Deviation	5.38
Variance	28.98
Skewness	1.87
Kurtosis	8.21
Coefficient of Variability	0.8653
Minimum	0.05
Maximum	57.41
Range Width	57.36
Mean Standard Error	0.02

Forecast: NGL in Gas Fields (cont'd)

Percentiles:	MMBNGL
P100	0.05
P95	0.78
P90	1.21
P85	1.59
P80	1.98
P75	2.38
P70	2.80
P65	3.23
P60	3.68
P55	4.19
P50	4.72
P45	5.27
P40	5.92
P35	6.63
P30	7.45
P25	8.38
P20	9.53
P15	11.08
P10	13.23
P5	16.93
P0	57.41

Forecast: Largest Gas Field

Summary:
Entire range is from 3.07 to 799.97
After 50,000 trials, the standard error of the mean is 0.50



Statistics:	Forecast values
Trials	50,000
Mean	101.95
Median	63.67
Mode	---
Standard Deviation	112.77
Variance	12,716.54
Skewness	2.62
Kurtosis	11.50
Coefficient of Variability	1.11
Minimum	3.07
Maximum	799.97
Range Width	796.90
Mean Standard Error	0.50

Forecast: Largest Gas Field (cont'd)

Percentiles:	BCFG
P100	3.07
P95	12.62
P90	18.22
P85	23.31
P80	28.12
P75	33.13
P70	38.37
P65	43.90
P60	49.99
P55	56.51
P50	63.67
P45	72.13
P40	81.47
P35	93.00
P30	106.70
P25	124.58
P20	146.83
P15	178.97
P10	230.62
P5	334.60
P0	799.97

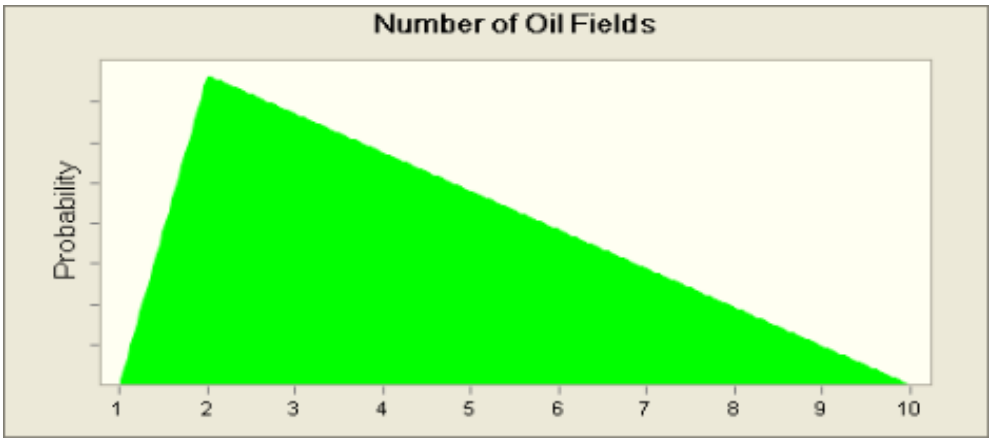
End of Forecasts

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	10



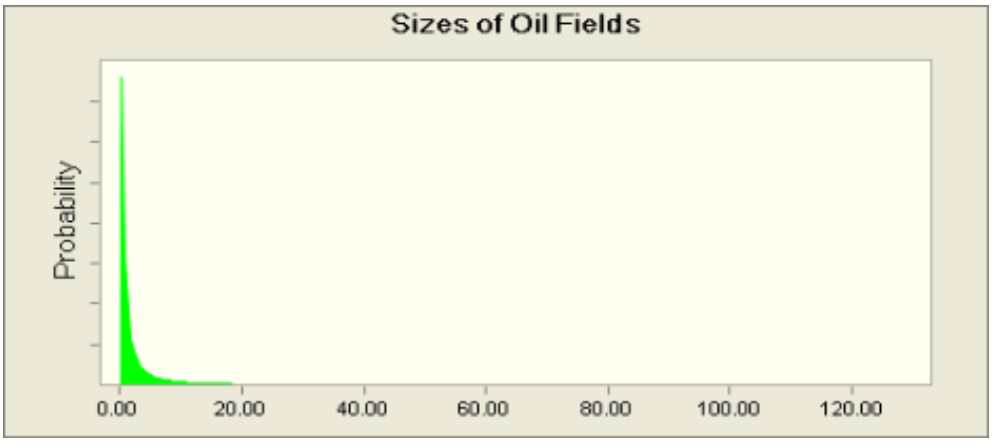
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	4	4
Median	4	4
Mode	---	2
Standard Deviation	2	2
Variance	4	4
Skewness	0.5443	0.5396
Kurtosis	2.41	2.40
Coefficient of Variability	0.4644	0.4647
Minimum	1	1
Maximum	10	10
Range Width	9	9
Mean Standard Error	0	---

Assumption: Number of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	1	1
P95	2	2
P90	2	2
P85	2	2
P80	2	2
P75	3	3
P70	3	3
P65	3	3
P60	3	3
P55	4	4
P50	4	4
P45	4	4
P40	5	5
P35	5	5
P30	5	5
P25	6	6
P20	6	6
P15	7	7
P10	7	7
P5	8	8
P0	10	10

Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	3.10	3.60
Standard Deviation	11.62	11.62
Selected range is from -Infinity to 129.50		0.50 to 130.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	2.95	2.89
Median	0.80	0.80
Mode	---	---
Standard Deviation	7.40	7.24
Variance	54.79	52.41
Skewness	7.20	7.35
Kurtosis	77.05	79.35
Coefficient of Variability	2.51	2.50
Minimum	0.00	0.00
Maximum	128.01	129.50
Range Width	128.01	129.50
Mean Standard Error	0.03	---

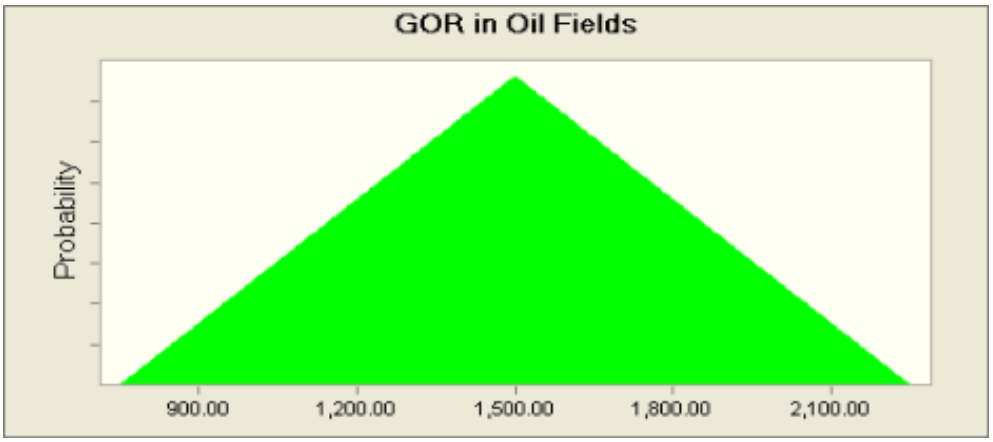
Assumption: Sizes of Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	0.00	0.00
P95	0.05	0.05
P90	0.10	0.10
P85	0.14	0.15
P80	0.20	0.20
P75	0.26	0.26
P70	0.34	0.34
P65	0.42	0.42
P60	0.53	0.53
P55	0.65	0.65
P50	0.80	0.80
P45	0.99	0.98
P40	1.21	1.21
P35	1.50	1.50
P30	1.91	1.89
P25	2.43	2.42
P20	3.22	3.18
P15	4.49	4.38
P10	6.78	6.54
P5	12.46	11.82
P0	128.01	129.50

Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	750.00
Likeliest	1,500.00
Maximum	2,250.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	1,500.35	1,500.00
Median	1,498.47	1,500.00
Mode	---	1,500.00
Standard Deviation	306.88	306.19
Variance	94,174.17	93,750.00
Skewness	0.0045	0.00
Kurtosis	2.39	2.40
Coefficient of Variability	0.2045	0.2041
Minimum	753.49	750.00
Maximum	2,245.98	2,250.00
Range Width	1,492.49	1,500.00
Mean Standard Error	1.37	---

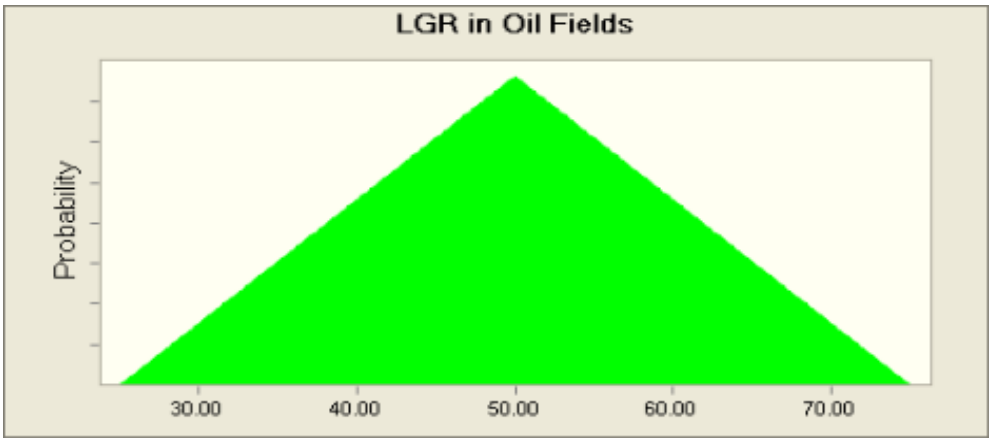
Assumption: GOR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	753.49	750.00
P95	987.50	987.17
P90	1,086.34	1,085.41
P85	1,160.98	1,160.79
P80	1,224.00	1,224.34
P75	1,281.36	1,280.33
P70	1,330.98	1,330.95
P65	1,375.50	1,377.50
P60	1,419.41	1,420.82
P55	1,459.63	1,461.51
P50	1,498.45	1,500.00
P45	1,539.04	1,538.49
P40	1,580.83	1,579.18
P35	1,622.88	1,622.50
P30	1,669.45	1,669.05
P25	1,720.52	1,719.67
P20	1,778.27	1,775.66
P15	1,842.01	1,839.21
P10	1,916.49	1,914.59
P5	2,015.81	2,012.83
P0	2,245.98	2,250.00

Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	25.00
Likeliest	50.00
Maximum	75.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	50.01	50.00
Median	49.96	50.00
Mode	---	50.00
Standard Deviation	10.22	10.21
Variance	104.53	104.17
Skewness	0.0029	0.00
Kurtosis	2.40	2.40
Coefficient of Variability	0.2044	0.2041
Minimum	25.16	25.00
Maximum	74.76	75.00
Range Width	49.60	50.00
Mean Standard Error	0.05	---

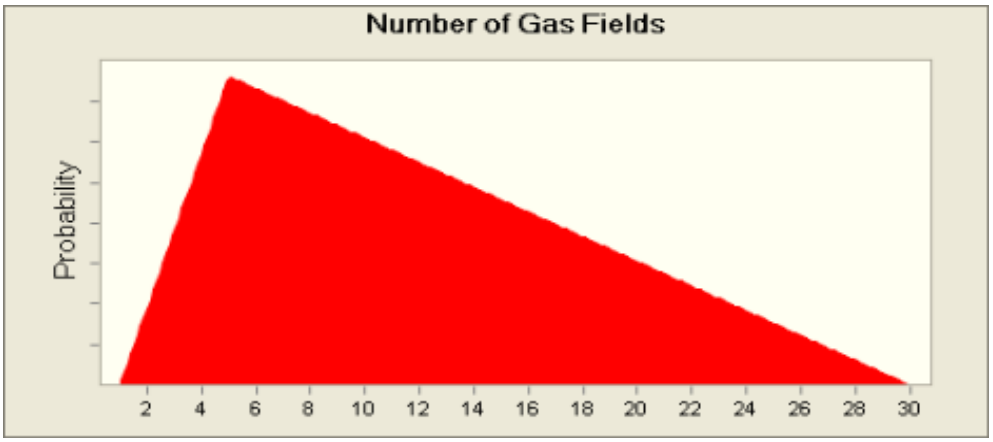
Assumption: LGR in Oil Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	25.16	25.00
P95	32.84	32.91
P90	36.20	36.18
P85	38.69	38.69
P80	40.86	40.81
P75	42.69	42.68
P70	44.35	44.36
P65	45.89	45.92
P60	47.33	47.36
P55	48.70	48.72
P50	49.96	50.00
P45	51.24	51.28
P40	52.66	52.64
P35	54.11	54.08
P30	55.69	55.64
P25	57.38	57.32
P20	59.25	59.19
P15	61.34	61.31
P10	63.87	63.82
P5	67.10	67.09
P0	74.76	75.00

Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	5
Maximum	30



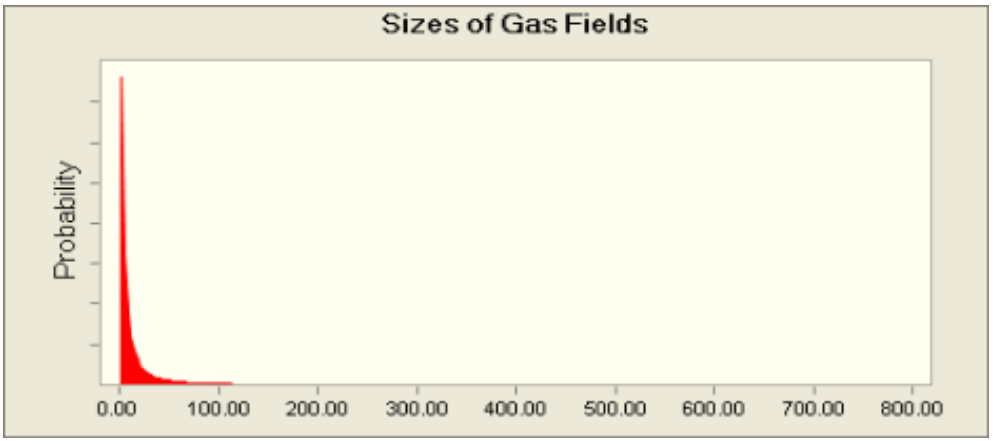
Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	12	12
Median	11	11
Mode	---	5
Standard Deviation	6	6
Variance	42	41
Skewness	0.5321	0.5247
Kurtosis	2.41	2.40
Coefficient of Variability	0.5372	0.5347
Minimum	1	1
Maximum	30	30
Range Width	29	29
Mean Standard Error	0	---

Assumption: Number of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	1	1
P95	3	3
P90	4	4
P85	5	5
P80	6	6
P75	7	7
P70	7	7
P65	8	8
P60	9	9
P55	10	10
P50	11	11
P45	12	12
P40	13	13
P35	14	14
P30	15	15
P25	17	17
P20	18	18
P15	20	20
P10	22	21
P5	24	24
P0	30	30

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	19.23	22.23
Standard Deviation	71.38	71.38
Selected range is from -Infinity to 797.00		3.00 to 800.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	17.73	17.93
Median	5.13	4.99
Mode	---	---
Standard Deviation	44.11	44.69
Variance	1,945.49	1,996.98
Skewness	7.35	7.32
Kurtosis	79.86	78.71
Coefficient of Variability	2.49	2.49
Minimum	0.01	0.00
Maximum	796.50	797.00
Range Width	796.49	797.00
Mean Standard Error	0.20	---

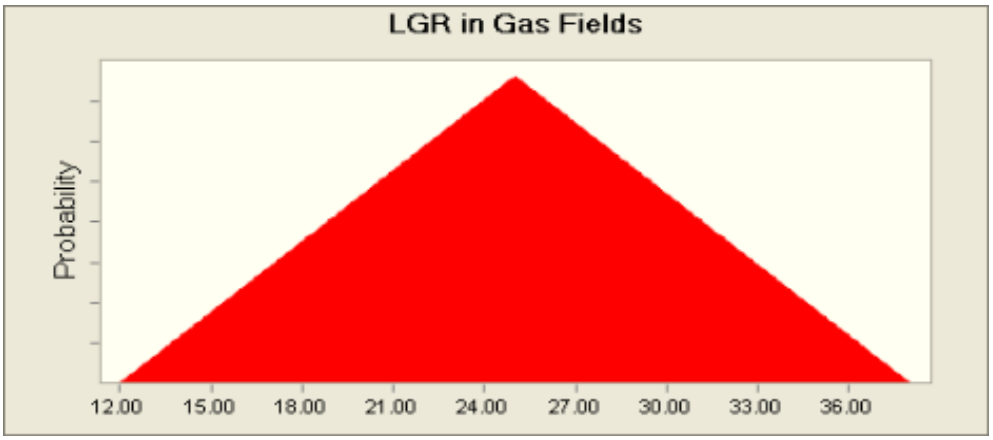
Assumption: Sizes of Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	0.01	0.00
P95	0.34	0.34
P90	0.61	0.61
P85	0.91	0.91
P80	1.28	1.25
P75	1.68	1.65
P70	2.17	2.11
P65	2.69	2.65
P60	3.35	3.29
P55	4.15	4.06
P50	5.13	4.99
P45	6.25	6.13
P40	7.64	7.56
P35	9.52	9.38
P30	11.90	11.78
P25	15.18	15.07
P20	19.95	19.81
P15	27.11	27.23
P10	40.36	40.62
P5	72.50	73.26
P0	796.50	797.00

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	12.00
Likeliest	25.00
Maximum	38.00



Statistics:	Simulated values	Theoretical values
Trials	50,000	---
Mean	25.01	25.00
Median	25.03	25.00
Mode	---	25.00
Standard Deviation	5.30	5.31
Variance	28.12	28.17
Skewness	-0.0059	0.00
Kurtosis	2.39	2.40
Coefficient of Variability	0.2121	0.2123
Minimum	12.16	12.00
Maximum	37.93	38.00
Range Width	25.77	26.00
Mean Standard Error	0.02	---

Assumption: LGR in Gas Fields (cont'd)

Percentiles:	Simulated values	Theoretical values
P100	12.16	12.00
P95	16.11	16.11
P90	17.81	17.81
P85	19.09	19.12
P80	20.20	20.22
P75	21.19	21.19
P70	22.07	22.07
P65	22.91	22.88
P60	23.67	23.63
P55	24.37	24.33
P50	25.03	25.00
P45	25.68	25.67
P40	26.39	26.37
P35	27.12	27.12
P30	27.94	27.93
P25	28.78	28.81
P20	29.77	29.78
P15	30.90	30.88
P10	32.19	32.19
P5	33.87	33.89
P0	37.93	38.00

Simulation started on 2/27/2009 at 7:52:27
Simulation stopped on 2/27/2009 at 8:03:21