

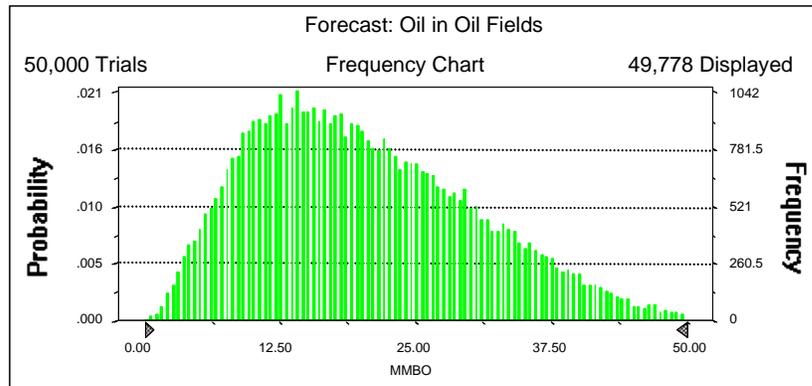
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Oil in Oil Fields**

Summary:

Display range is from 0.00 to 50.00 MMBO  
Entire range is from 0.59 to 64.38 MMBO  
After 50,000 trials, the standard error of the mean is 0.05

Statistics:	Value
Trials	50000
Mean	20.40
Median	19.01
Mode	---
Standard Deviation	10.26
Variance	105.37
Skewness	0.56
Kurtosis	2.81
Coefficient of Variability	0.50
Range Minimum	0.59
Range Maximum	64.38
Range Width	63.79
Mean Standard Error	0.05



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Oil in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.59
95%	5.98
90%	8.09
85%	9.66
80%	11.05
75%	12.40
70%	13.70
65%	14.96
60%	16.28
55%	17.62
50%	19.01
45%	20.43
40%	22.01
35%	23.60
30%	25.37
25%	27.24
20%	29.41
15%	31.85
10%	34.89
5%	39.15
0%	64.38

End of Forecast

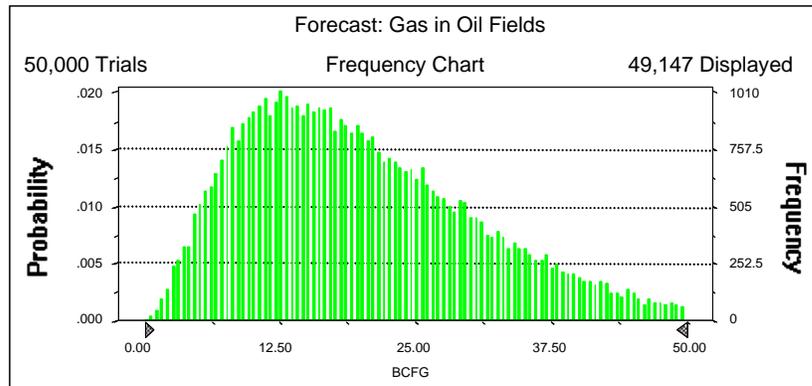
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Gas in Oil Fields**

Summary:

Display range is from 0.00 to 50.00 BCFG  
Entire range is from 0.45 to 86.21 BCFG  
After 50,000 trials, the standard error of the mean is 0.05

Statistics:	Value
Trials	50000
Mean	20.44
Median	18.47
Mode	---
Standard Deviation	11.35
Variance	128.74
Skewness	0.87
Kurtosis	3.67
Coefficient of Variability	0.56
Range Minimum	0.45
Range Maximum	86.21
Range Width	85.76
Mean Standard Error	0.05



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Gas in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.45
95%	5.58
90%	7.52
85%	9.08
80%	10.48
75%	11.78
70%	13.07
65%	14.38
60%	15.73
55%	17.06
50%	18.47
45%	19.95
40%	21.48
35%	23.19
30%	25.09
25%	27.11
20%	29.55
15%	32.43
10%	36.18
5%	42.00
0%	86.21

End of Forecast

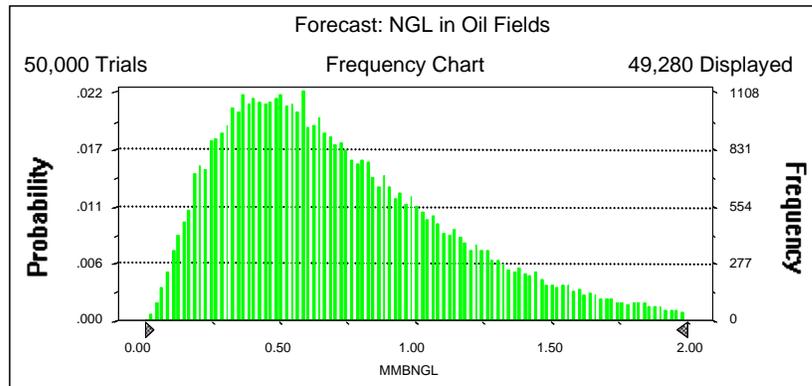
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: NGL in Oil Fields**

Summary:

Display range is from 0.00 to 2.00 MMBNGL  
Entire range is from 0.02 to 3.59 MMBNGL  
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	0.74
Median	0.65
Mode	---
Standard Deviation	0.44
Variance	0.20
Skewness	1.11
Kurtosis	4.52
Coefficient of Variability	0.60
Range Minimum	0.02
Range Maximum	3.59
Range Width	3.58
Mean Standard Error	0.00



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: NGL in Oil Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.02
95%	0.19
90%	0.25
85%	0.31
80%	0.36
75%	0.41
70%	0.45
65%	0.50
60%	0.55
55%	0.59
50%	0.65
45%	0.70
40%	0.76
35%	0.82
30%	0.90
25%	0.98
20%	1.07
15%	1.19
10%	1.34
5%	1.59
0%	3.59

End of Forecast

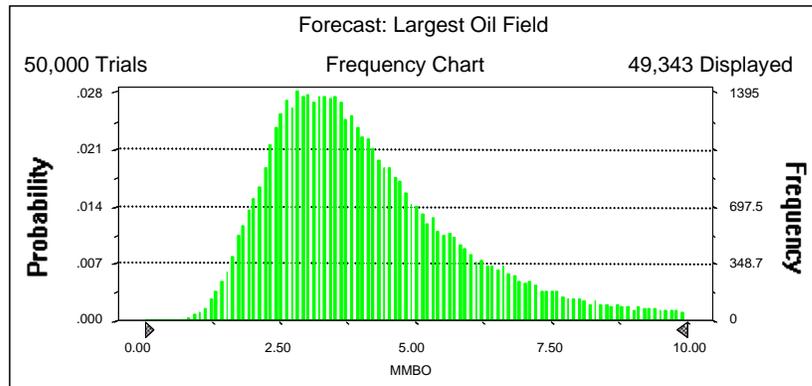
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Oil Field**

Summary:

Display range is from 0.00 to 10.00 MMBO  
Entire range is from 0.59 to 11.99 MMBO  
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	4.17
Median	3.77
Mode	---
Standard Deviation	1.86
Variance	3.46
Skewness	1.21
Kurtosis	4.68
Coefficient of Variability	0.45
Range Minimum	0.59
Range Maximum	11.99
Range Width	11.40
Mean Standard Error	0.01



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Oil Field (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.59
95%	1.90
90%	2.23
85%	2.46
80%	2.66
75%	2.85
70%	3.03
65%	3.21
60%	3.40
55%	3.58
50%	3.77
45%	3.98
40%	4.20
35%	4.45
30%	4.73
25%	5.06
20%	5.46
15%	5.96
10%	6.68
5%	7.88
0%	11.99

End of Forecast

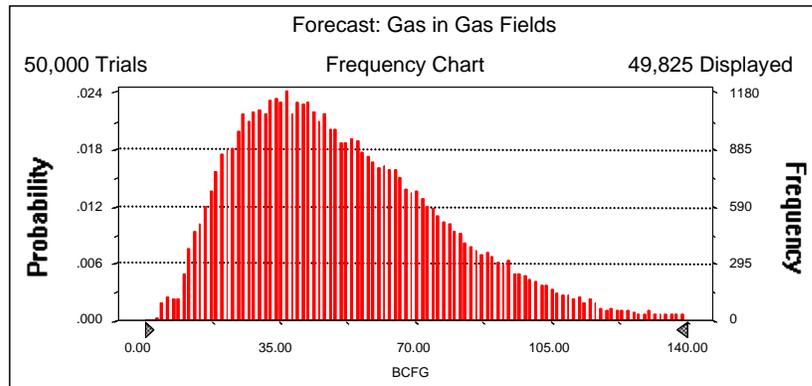
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Gas in Gas Fields**

Summary:

Display range is from 0.00 to 140.00 BCFG  
Entire range is from 3.62 to 236.07 BCFG  
After 50,000 trials, the standard error of the mean is 0.12

Statistics:	Value
Trials	50000
Mean	51.64
Median	47.38
Mode	---
Standard Deviation	26.30
Variance	691.82
Skewness	0.79
Kurtosis	3.51
Coefficient of Variability	0.51
Range Minimum	3.62
Range Maximum	236.07
Range Width	232.45
Mean Standard Error	0.12



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Gas in Gas Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.62
95%	16.49
90%	21.10
85%	24.96
80%	28.28
75%	31.55
70%	34.67
65%	37.70
60%	40.89
55%	44.06
50%	47.38
45%	50.93
40%	54.73
35%	58.72
30%	63.09
25%	67.73
20%	73.02
15%	79.46
10%	88.19
5%	100.86
0%	236.07

End of Forecast

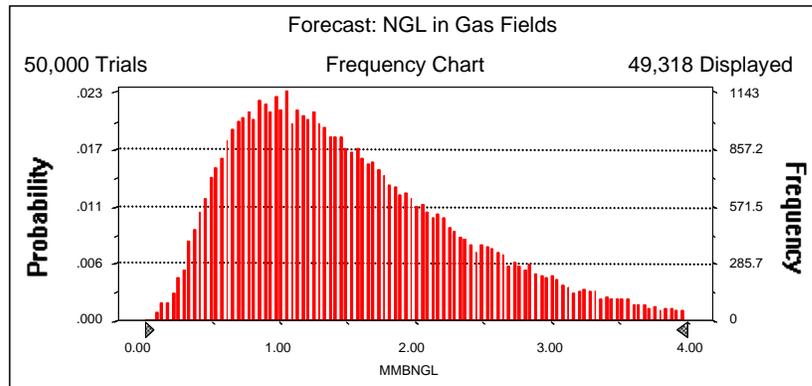
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: NGL in Gas Fields**

Summary:

Display range is from 0.00 to 4.00 MMBNGL  
Entire range is from 0.08 to 8.82 MMBNGL  
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.55
Median	1.38
Mode	---
Standard Deviation	0.87
Variance	0.76
Skewness	1.08
Kurtosis	4.56
Coefficient of Variability	0.56
Range Minimum	0.08
Range Maximum	8.82
Range Width	8.74
Mean Standard Error	0.00



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: NGL in Gas Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.08
95%	0.46
90%	0.59
85%	0.70
80%	0.80
75%	0.89
70%	0.99
65%	1.08
60%	1.18
55%	1.27
50%	1.38
45%	1.49
40%	1.60
35%	1.73
30%	1.87
25%	2.03
20%	2.22
15%	2.45
10%	2.75
5%	3.22
0%	8.82

End of Forecast

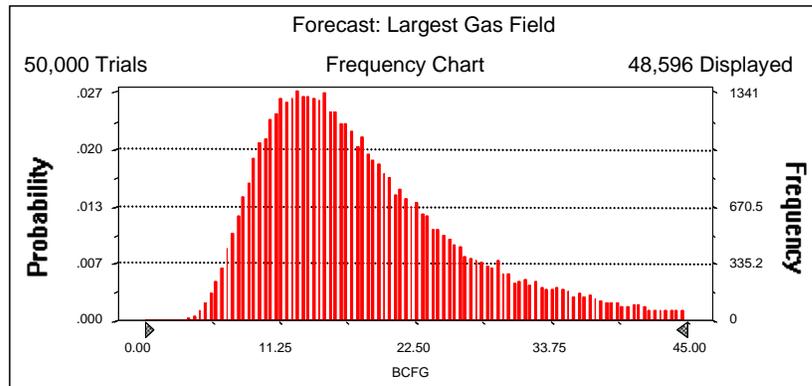
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Gas Field**

Summary:

Display range is from 0.00 to 45.00 BCFG  
Entire range is from 3.62 to 71.97 BCFG  
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	Value
Trials	50000
Mean	19.12
Median	16.72
Mode	---
Standard Deviation	9.86
Variance	97.17
Skewness	1.64
Kurtosis	6.60
Coefficient of Variability	0.52
Range Minimum	3.62
Range Maximum	71.97
Range Width	68.35
Mean Standard Error	0.04



50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Forecast: Largest Gas Field (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.62
95%	8.14
90%	9.48
85%	10.53
80%	11.45
75%	12.30
70%	13.18
65%	14.03
60%	14.90
55%	15.77
50%	16.72
45%	17.73
40%	18.84
35%	20.08
30%	21.49
25%	23.12
20%	25.15
15%	27.90
10%	31.89
5%	38.61
0%	71.97

End of Forecast

50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

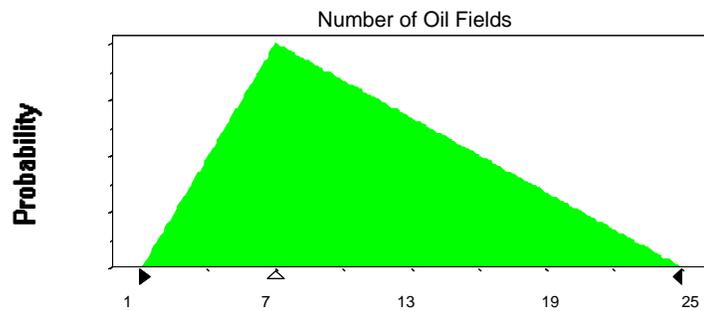
**Assumptions**

**Assumption: Number of Oil Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	7
Maximum	25

Selected range is from 1 to 25



**Assumption: Sizes of Oil Fields**

Lognormal distribution with parameters:

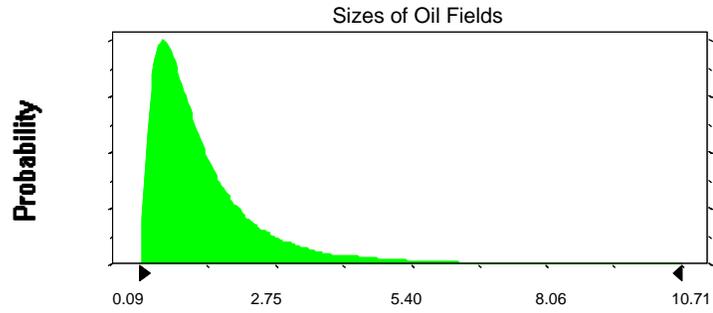
		Shifted parameters
Mean	1.37	1.87
Standard Deviation	1.27	1.27

Selected range is from 0.00 to 11.50

0.50 to 12.00

50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Assumption: Sizes of Oil Fields (cont'd)**

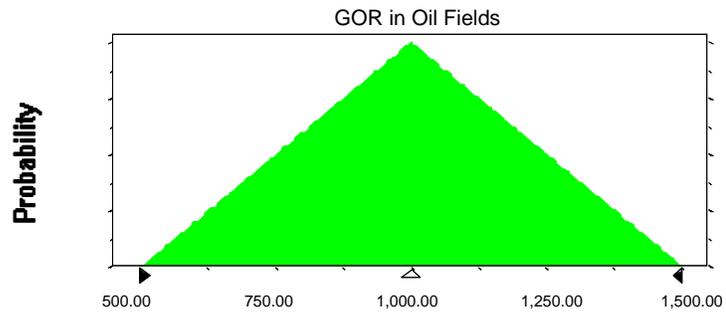


**Assumption: GOR in Oil Fields**

Triangular distribution with parameters:

Minimum	500.00
Likeliest	1,000.00
Maximum	1,500.00

Selected range is from 500.00 to 1,500.00



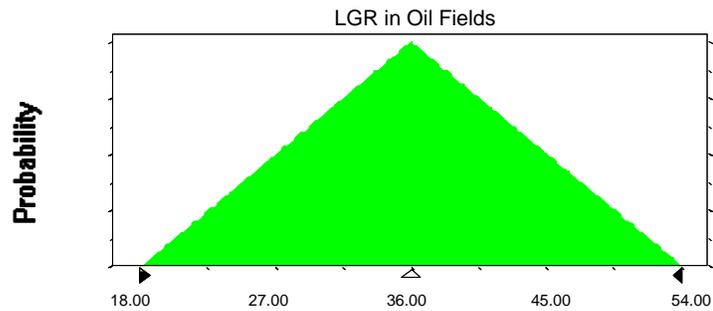
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Assumption: LGR in Oil Fields**

Triangular distribution with parameters:

Minimum	18.00
Likeliest	36.00
Maximum	54.00

Selected range is from 18.00 to 54.00



**Assumption: Number of Gas Fields**

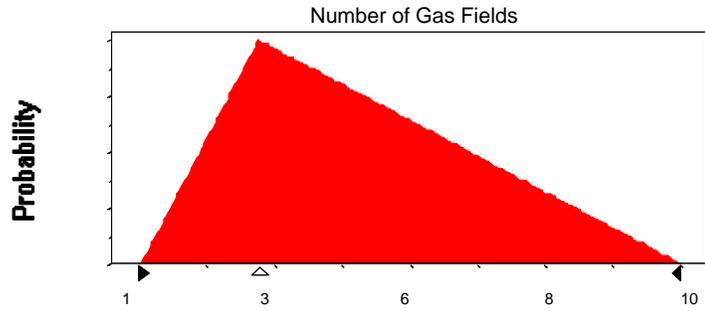
Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	10

Selected range is from 1 to 10

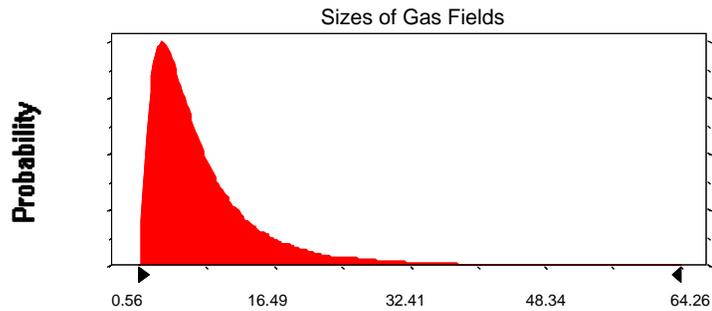
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Assumption: Number of Gas Fields (cont'd)**



**Assumption: Sizes of Gas Fields**

Lognormal distribution with parameters:		Shifted parameters
Mean	8.20	11.20
Standard Deviation	7.64	7.64
Selected range is from 0.00 to 69.00		3.00 to 72.00



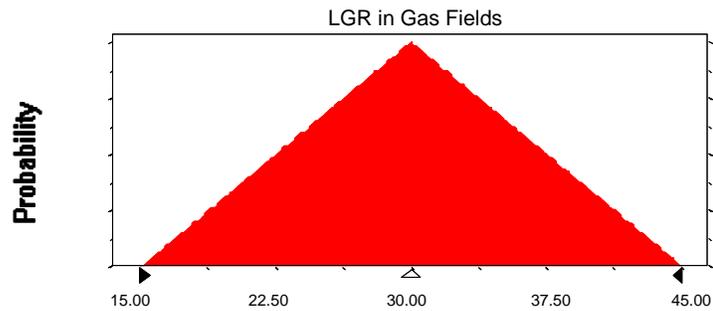
50300101  
Tensleep-Casper Conventional Oil and Gas  
Monte Carlo Results

**Assumption: LGR in Gas Fields**

Triangular distribution with parameters:

Minimum	15.00
Likeliest	30.00
Maximum	45.00

Selected range is from 15.00 to 45.00



End of Assumptions

Simulation started on 4/20/05 at 16:44:51

Simulation stopped on 4/20/05 at 16:46:48



*Click here to return to*  
**Chapter 3**