

50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: Oil in Oil Fields**

Summary:

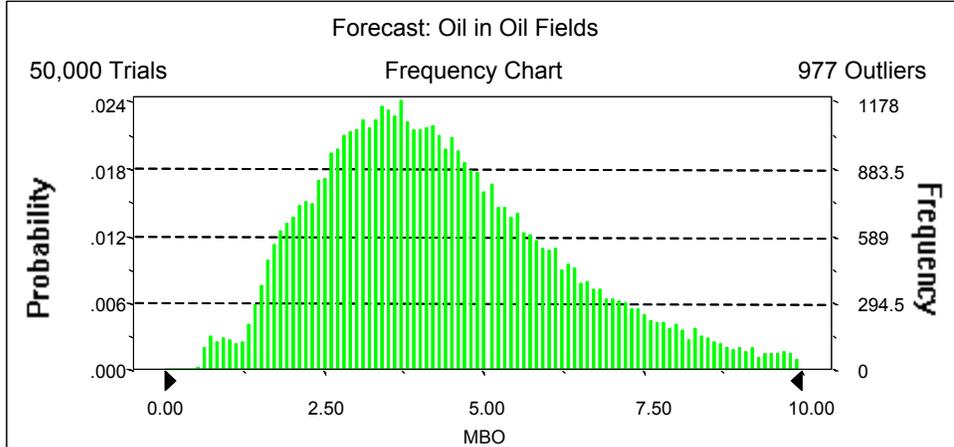
Display range is from 0.00 to 10.00 MBO

Entire range is from 0.56 to 17.52 MBO

After 50,000 trials, the standard error of the mean is 0.01

Statistics:

	<u>Value</u>
Trials	50000
Mean	4.47
Median	4.13
Mode	---
Standard Deviation	2.09
Variance	4.36
Skewness	1.09
Kurtosis	4.92
Coefficient of Variability	0.47
Range Minimum	0.56
Range Maximum	17.52
Range Width	16.96
Mean Standard Error	0.01



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.56
95%	1.75
90%	2.14
85%	2.47
80%	2.75
75%	2.99
70%	3.22
65%	3.45
60%	3.67
55%	3.89
50%	4.13
45%	4.37
40%	4.62
35%	4.89
30%	5.20
25%	5.56
20%	5.98
15%	6.50
10%	7.22
5%	8.37
0%	17.52

End of Forecast

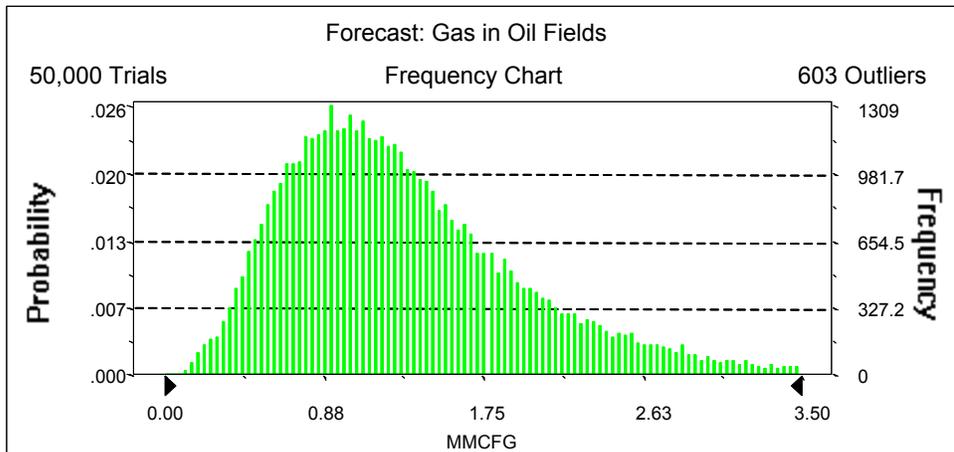
50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: Gas in Oil Fields**

Summary:

Display range is from 0.00 to 3.50 MMCFG  
Entire range is from 0.12 to 5.95 MMCFG  
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	1.34
Median	1.21
Mode	---
Standard Deviation	0.70
Variance	0.48
Skewness	1.27
Kurtosis	5.55
Coefficient of Variability	0.52
Range Minimum	0.12
Range Maximum	5.95
Range Width	5.83
Mean Standard Error	0.00



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MMCFG</u>
100%	0.12
95%	0.47
90%	0.59
85%	0.69
80%	0.77
75%	0.85
70%	0.92
65%	0.99
60%	1.06
55%	1.13
50%	1.21
45%	1.29
40%	1.37
35%	1.46
30%	1.57
25%	1.69
20%	1.83
15%	2.01
10%	2.26
5%	2.67
0%	5.95

End of Forecast

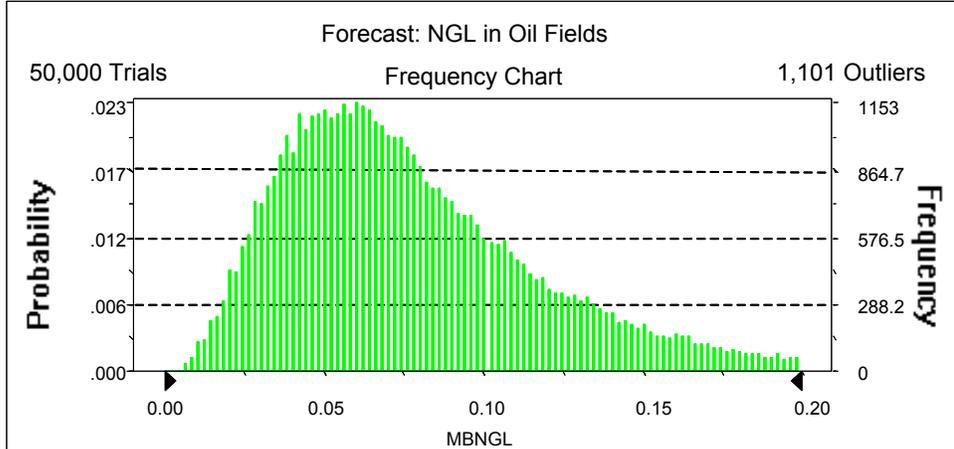
50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: NGL in Oil Fields**

Summary:

Display range is from 0.00 to 0.20 MBNGL  
Entire range is from 0.01 to 0.39 MBNGL  
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	0.08
Median	0.07
Mode	---
Standard Deviation	0.05
Variance	0.00
Skewness	1.43
Kurtosis	6.18
Coefficient of Variability	0.57
Range Minimum	0.01
Range Maximum	0.39
Range Width	0.38
Mean Standard Error	0.00



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MBNGL</u>
100%	0.01
95%	0.03
90%	0.03
85%	0.04
80%	0.04
75%	0.05
70%	0.05
65%	0.06
60%	0.06
55%	0.07
50%	0.07
45%	0.08
40%	0.08
35%	0.09
30%	0.09
25%	0.10
20%	0.11
15%	0.12
10%	0.14
5%	0.17
0%	0.39

End of Forecast

50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: Largest Oil Field**

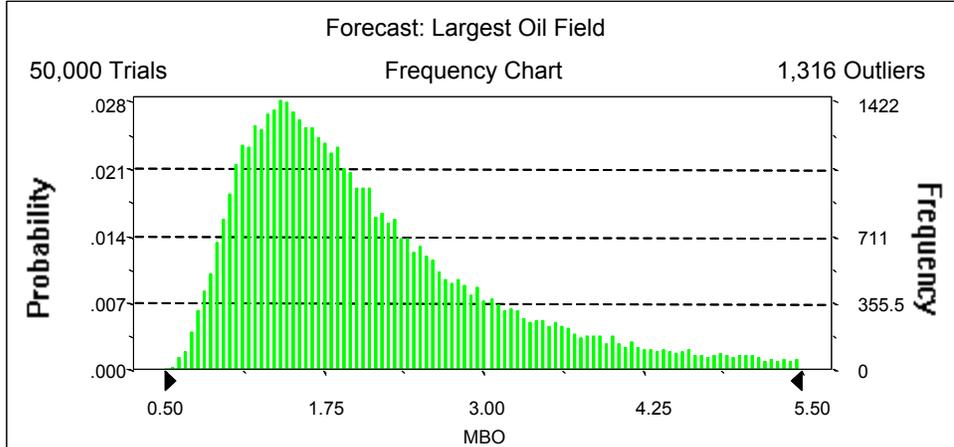
Summary:

Display range is from 0.50 to 5.50 MBO

Entire range is from 0.56 to 9.97 MBO

After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	2.21
Median	1.87
Mode	---
Standard Deviation	1.23
Variance	1.52
Skewness	2.06
Kurtosis	9.00
Coefficient of Variability	0.56
Range Minimum	0.56
Range Maximum	9.97
Range Width	9.41
Mean Standard Error	0.01



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MBO</u>
100%	0.56
95%	0.96
90%	1.10
85%	1.20
80%	1.30
75%	1.39
70%	1.48
65%	1.57
60%	1.67
55%	1.77
50%	1.87
45%	1.99
40%	2.12
35%	2.27
30%	2.44
25%	2.64
20%	2.89
15%	3.23
10%	3.71
5%	4.62
0%	9.97

End of Forecast

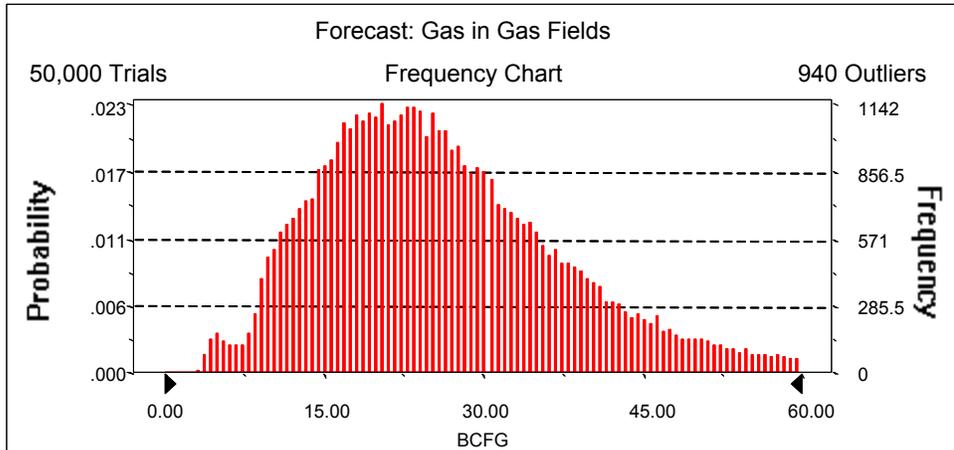
50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: Gas in Gas Fields**

Summary:

Display range is from 0.00 to 60.00 BCFG  
Entire range is from 3.29 to 121.53 BCFG  
After 50,000 trials, the standard error of the mean is 0.06

Statistics:	Value
Trials	50000
Mean	26.81
Median	24.78
Mode	---
Standard Deviation	12.51
Variance	156.46
Skewness	1.13
Kurtosis	5.28
Coefficient of Variability	0.47
Range Minimum	3.29
Range Maximum	121.53
Range Width	118.24
Mean Standard Error	0.06



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.29
95%	10.48
90%	12.90
85%	14.86
80%	16.52
75%	17.96
70%	19.35
65%	20.70
60%	22.10
55%	23.45
50%	24.78
45%	26.23
40%	27.74
35%	29.42
30%	31.19
25%	33.34
20%	35.80
15%	38.86
10%	42.94
5%	50.27
0%	121.53

End of Forecast

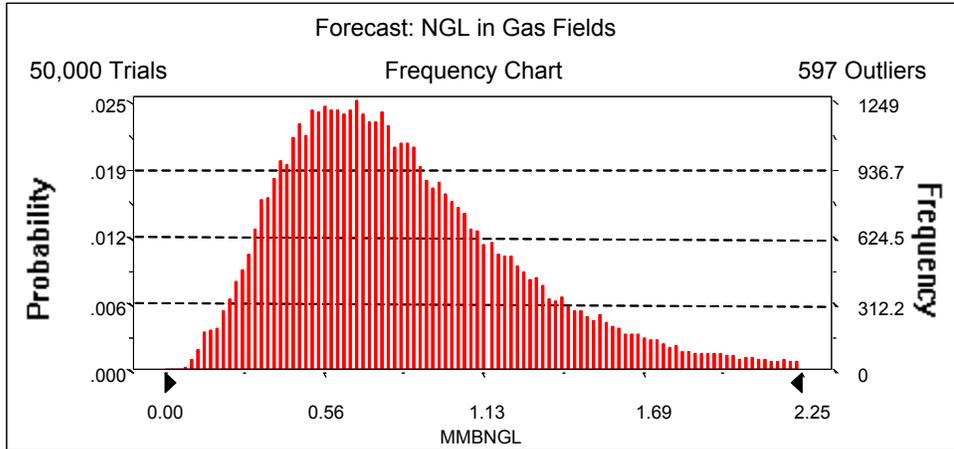
50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: NGL in Gas Fields**

Summary:

Display range is from 0.00 to 2.25 MMBNGL  
Entire range is from 0.07 to 5.03 MMBNGL  
After 50,000 trials, the standard error of the mean is 0.00

Statistics:	Value
Trials	50000
Mean	0.86
Median	0.78
Mode	---
Standard Deviation	0.45
Variance	0.20
Skewness	1.35
Kurtosis	6.38
Coefficient of Variability	0.52
Range Minimum	0.07
Range Maximum	5.03
Range Width	4.96
Mean Standard Error	0.00



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.07
95%	0.30
90%	0.38
85%	0.44
80%	0.49
75%	0.54
70%	0.59
65%	0.64
60%	0.68
55%	0.73
50%	0.78
45%	0.83
40%	0.88
35%	0.94
30%	1.01
25%	1.08
20%	1.17
15%	1.28
10%	1.44
5%	1.70
0%	5.03

End of Forecast

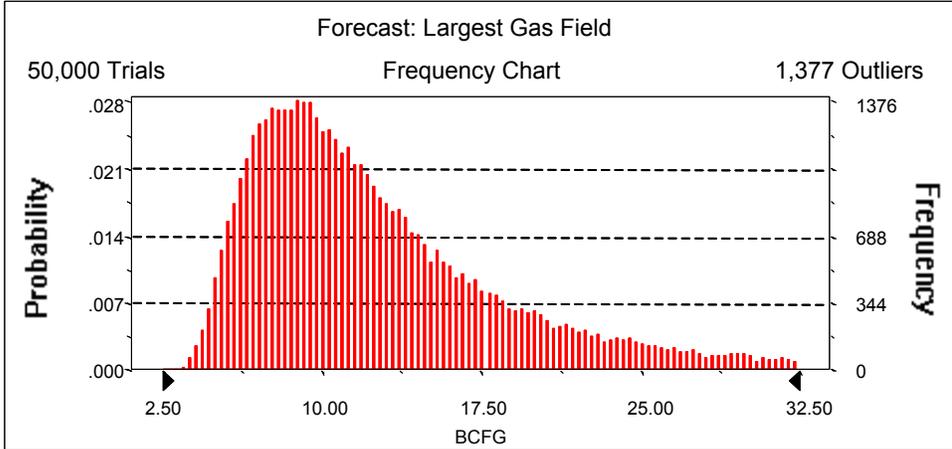
50200401  
Hanging Wall  
Monte Carlo Results

**Forecast: Largest Gas Field**

Summary:

Display range is from 2.50 to 32.50 BCFG  
Entire range is from 3.29 to 59.97 BCFG  
After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	13.24
Median	11.26
Mode	---
Standard Deviation	7.34
Variance	53.84
Skewness	2.03
Kurtosis	8.89
Coefficient of Variability	0.55
Range Minimum	3.29
Range Maximum	59.97
Range Width	56.68
Mean Standard Error	0.03



50200401  
Hanging Wall  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.29
95%	5.76
90%	6.57
85%	7.19
80%	7.77
75%	8.33
70%	8.89
65%	9.43
60%	10.00
55%	10.61
50%	11.26
45%	11.97
40%	12.73
35%	13.62
30%	14.61
25%	15.83
20%	17.33
15%	19.37
10%	22.30
5%	27.63
0%	59.97

End of Forecast

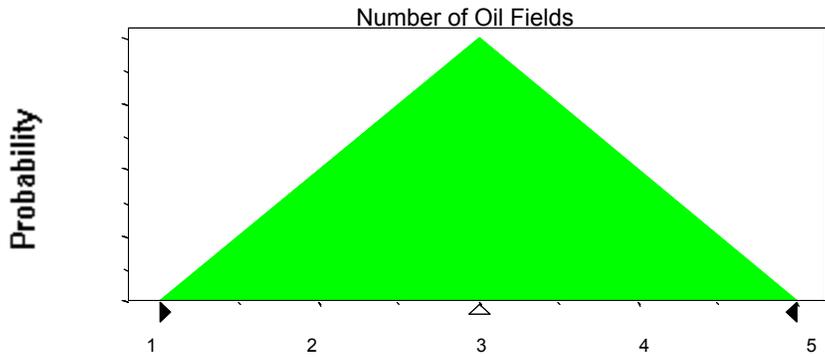
**Assumptions**

**Assumption: Number of Oil Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	5

Selected range is from 1 to 5  
Mean value in simulation was 3

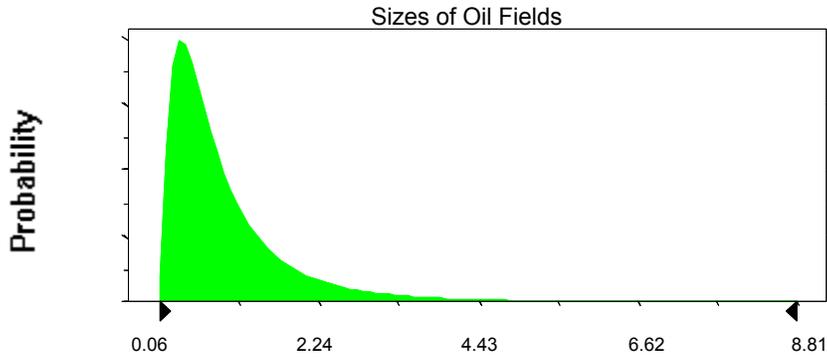


**Assumption: Sizes of Oil Fields**

Lognormal distribution with parameters:		Shifted parameters
Mean	1.00	1.50
Standard Deviation	1.02	1.02

Selected range is from 0.00 to 9.50                      0.50 to 10.00  
Mean value in simulation was 0.99                                      1.49

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



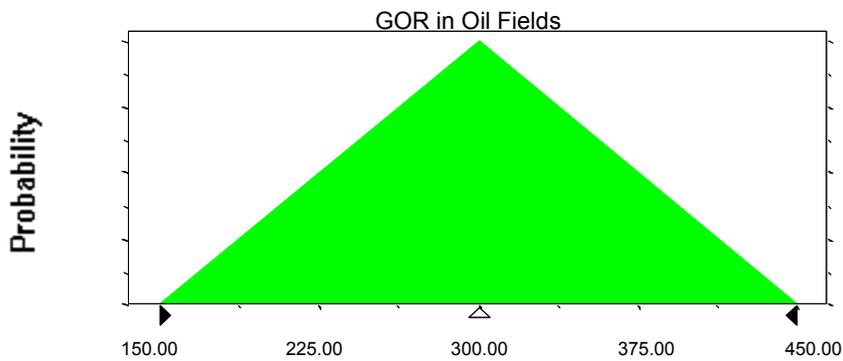
**Assumption: GOR in Oil Fields**

Triangular distribution with parameters:

Minimum	150.00
Likeliest	300.00
Maximum	450.00

Selected range is from 150.00 to 450.00

Mean value in simulation was 299.98

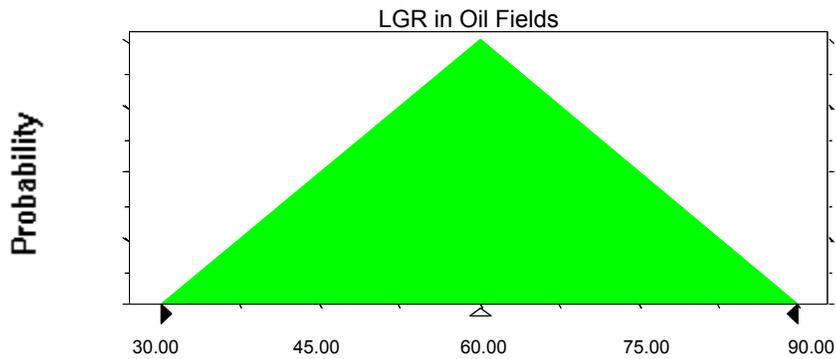


**Assumption: LGR in Oil Fields**

Triangular distribution with parameters:

Minimum	30.00
Likeliest	60.00
Maximum	90.00

Selected range is from 30.00 to 90.00  
Mean value in simulation was 59.99



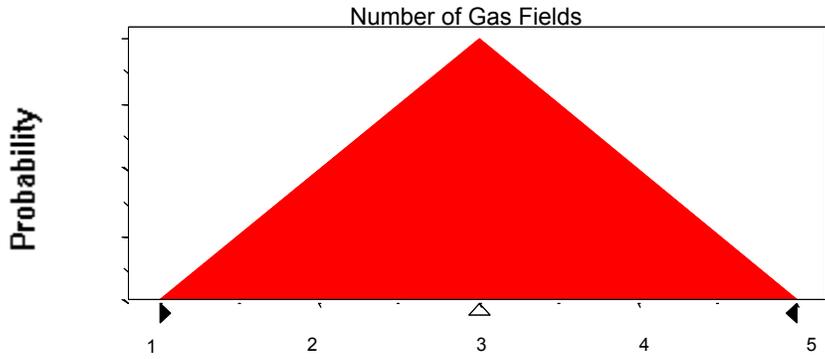
**Assumption: Number of Gas Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	5

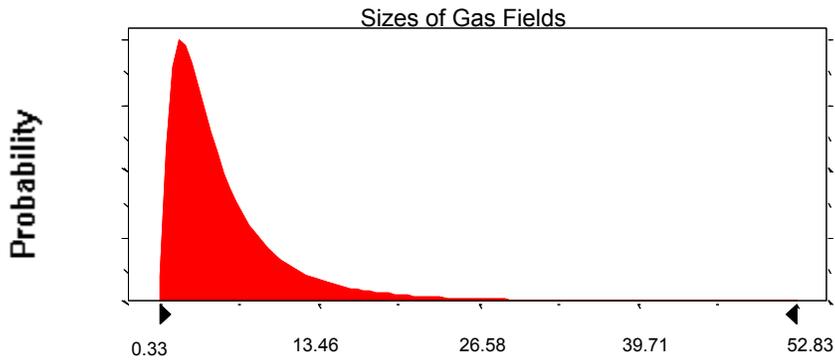
Selected range is from 1 to 5  
Mean value in simulation was 3

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



**Assumption: Sizes of Gas Fields**

Lognormal distribution with parameters:	Shifted parameters	
Mean	6.00	9.00
Standard Deviation	6.11	6.11
Selected range is from 0.00 to 57.00	3.00 to 60.00	
Mean value in simulation was 5.90	8.90	



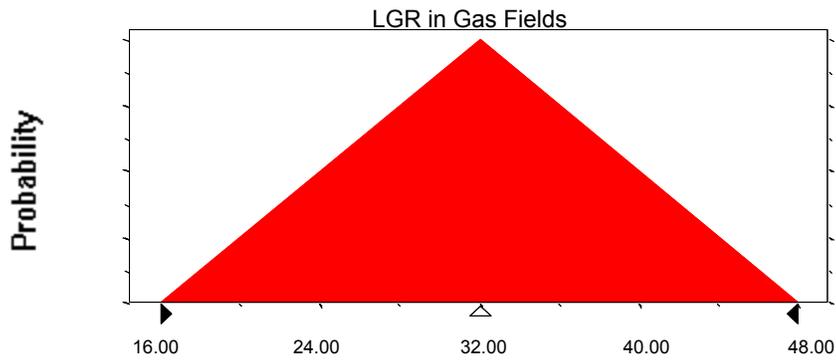
**Assumption: LGR in Gas Fields**

Triangular distribution with parameters:

Minimum	16.00
Likeliest	32.00
Maximum	48.00

Selected range is from 16.00 to 48.00

Mean value in simulation was 32.07



End of Assumptions

Simulation started on 10/20/00 at 16:30:37  
Simulation stopped on 10/20/00 at 16:43:45