

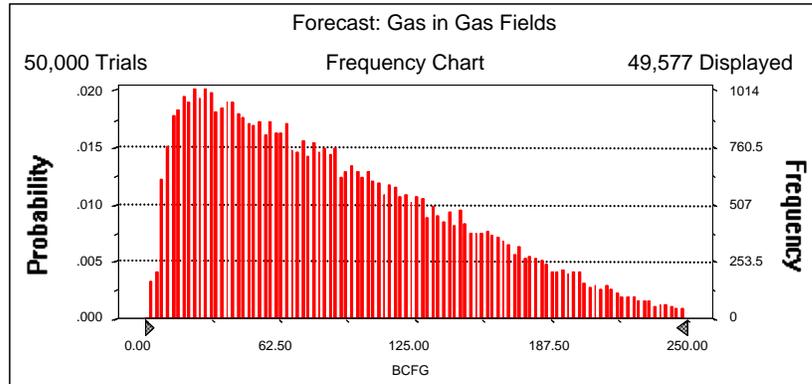
50410201  
Fractured Reservoirs  
Monte Carlo Results

**Forecast: Gas in Gas Fields**

Summary:

Display range is from 0.00 to 250.00 BCFG  
Entire range is from 3.13 to 402.20 BCFG  
After 50,000 trials, the standard error of the mean is 0.26

Statistics:	Value
Trials	50000
Mean	88.76
Median	78.04
Mode	---
Standard Deviation	58.59
Variance	3,432.80
Skewness	0.75
Kurtosis	2.99
Coefficient of Variability	0.66
Range Minimum	3.13
Range Maximum	402.20
Range Width	399.07
Mean Standard Error	0.26



50410201  
Fractured Reservoirs  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.13
95%	14.64
90%	21.24
85%	27.49
80%	33.80
75%	40.41
70%	47.24
65%	54.46
60%	61.94
55%	69.66
50%	78.04
45%	86.28
40%	95.45
35%	105.02
30%	115.58
25%	127.07
20%	140.39
15%	155.21
10%	173.28
5%	199.31
0%	402.20

End of Forecast

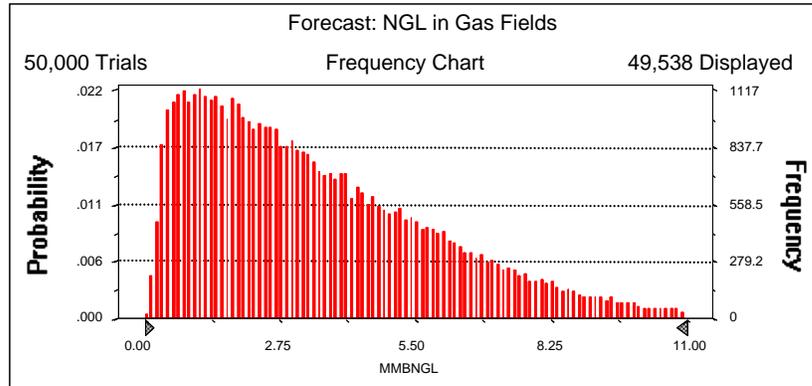
50410201  
Fractured Reservoirs  
Monte Carlo Results

**Forecast: NGL in Gas Fields**

Summary:

Display range is from 0.00 to 11.00 MMBNGL  
Entire range is from 0.08 to 20.44 MMBNGL  
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	3.54
Median	3.00
Mode	---
Standard Deviation	2.50
Variance	6.24
Skewness	1.02
Kurtosis	3.93
Coefficient of Variability	0.70
Range Minimum	0.08
Range Maximum	20.44
Range Width	20.36
Mean Standard Error	0.01



50410201  
Fractured Reservoirs  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.08
95%	0.54
90%	0.80
85%	1.05
80%	1.30
75%	1.56
70%	1.83
65%	2.09
60%	2.39
55%	2.68
50%	3.00
45%	3.33
40%	3.70
35%	4.09
30%	4.53
25%	5.03
20%	5.58
15%	6.22
10%	7.07
5%	8.35
0%	20.44

End of Forecast

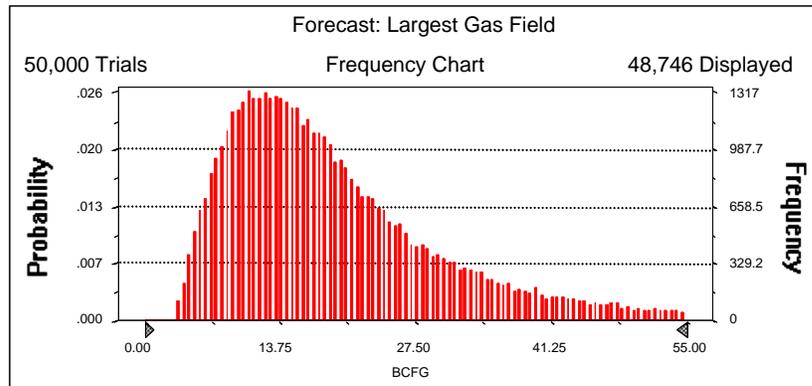
50410201  
Fractured Reservoirs  
Monte Carlo Results

**Forecast: Largest Gas Field**

Summary:

Display range is from 0.00 to 55.00 BCFG  
Entire range is from 3.13 to 79.92 BCFG  
After 50,000 trials, the standard error of the mean is 0.06

Statistics:	Value
Trials	50000
Mean	20.17
Median	16.98
Mode	---
Standard Deviation	12.50
Variance	156.16
Skewness	1.62
Kurtosis	6.19
Coefficient of Variability	0.62
Range Minimum	3.13
Range Maximum	79.92
Range Width	76.79
Mean Standard Error	0.06



50410201  
Fractured Reservoirs  
Monte Carlo Results

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	3.13
95%	6.55
90%	8.06
85%	9.28
80%	10.40
75%	11.46
70%	12.53
65%	13.59
60%	14.67
55%	15.80
50%	16.98
45%	18.25
40%	19.61
35%	21.15
30%	22.98
25%	25.11
20%	27.84
15%	31.43
10%	36.51
5%	45.78
0%	79.92

End of Forecast

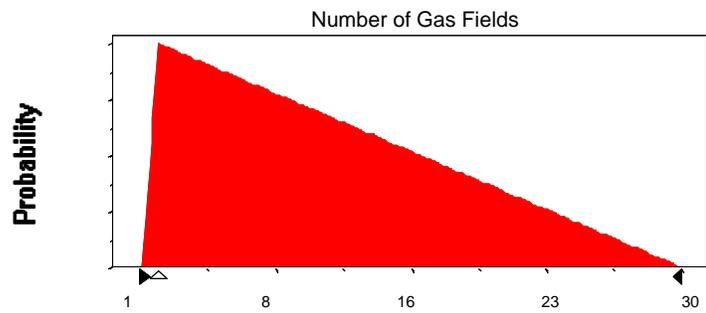
**Assumptions**

**Assumption: Number of Gas Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	30

Selected range is from 1 to 30



**Assumption: Sizes of Gas Fields**

Lognormal distribution with parameters:

Mean	5.21
Standard Deviation	7.39

Shifted parameters

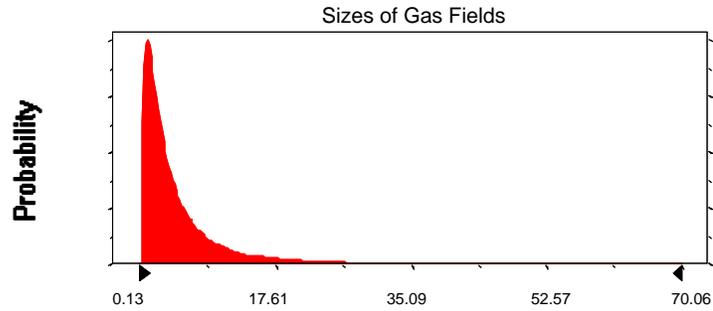
8.21
7.39

Selected range is from 0.00 to 77.00

3.00 to 80.00

50410201  
Fractured Reservoirs  
Monte Carlo Results

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

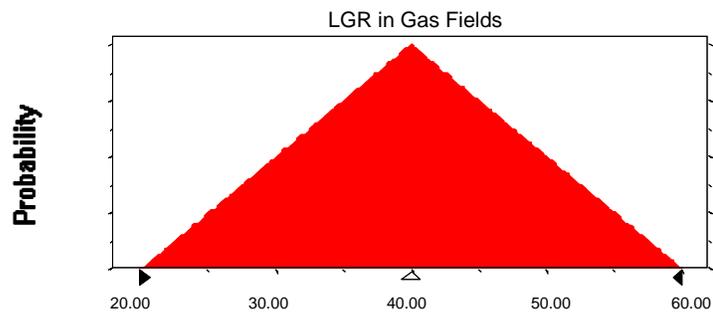


**Assumption: LGR in Gas Fields**

Triangular distribution with parameters:

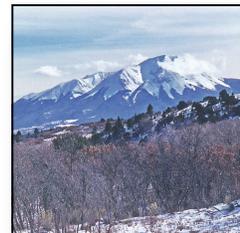
Minimum	20.00
Likeliest	40.00
Maximum	60.00

Selected range is from 20.00 to 60.00



End of Assumptions

Simulation started on 9/17/04 at 15:44:56  
Simulation stopped on 9/17/04 at 15:46:34



[Click here to return to Chapter 3](#)