



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

**Forecast: Gas in Gas Fields**

Summary:

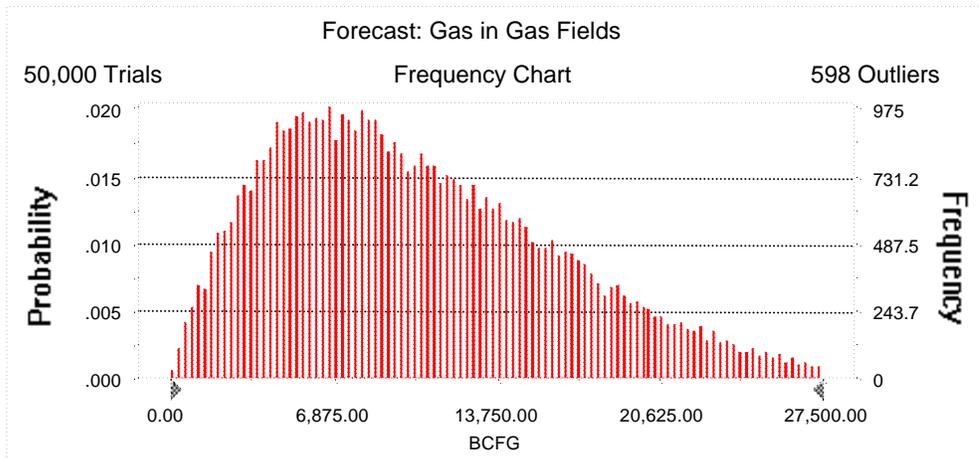
Display range is from 0.00 to 27,500.00 BCFG

Entire range is from 69.70 to 49,598.07 BCFG

After 50,000 trials, the standard error of the mean is 27.75

Statistics:

	<u>Value</u>
Trials	50000
Mean	10,596.75
Median	9,556.09
Mode	---
Standard Deviation	6,205.09
Variance	38,503,176.93
Skewness	0.80
Kurtosis	3.51
Coefficient of Variability	0.59
Range Minimum	69.70
Range Maximum	49,598.07
Range Width	49,528.38
Mean Standard Error	27.75



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	69.70
95%	2,332.43
90%	3,417.21
85%	4,292.14
80%	5,058.98
75%	5,792.19
70%	6,535.07
65%	7,275.49
60%	8,019.64
55%	8,750.44
50%	9,556.09
45%	10,434.76
40%	11,309.79
35%	12,268.38
30%	13,305.52
25%	14,437.04
20%	15,732.34
15%	17,221.29
10%	19,175.56
5%	22,184.23
0%	49,598.07

End of Forecast

**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

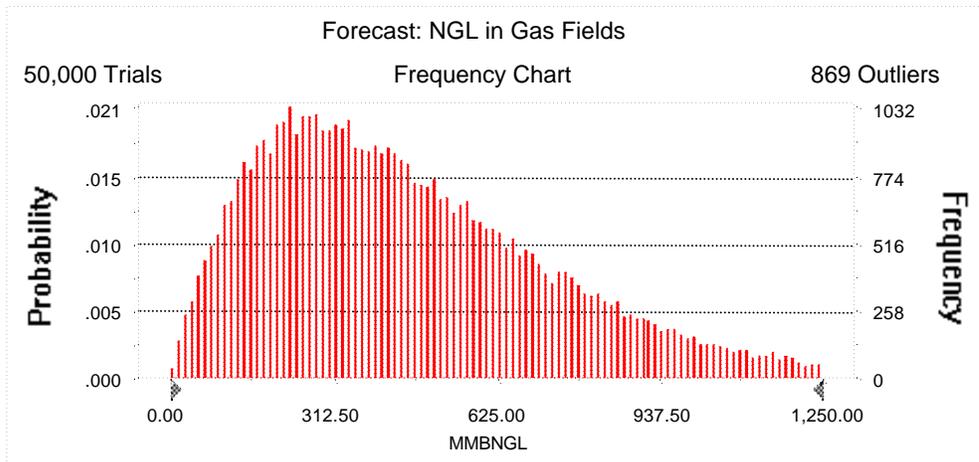
**Forecast: NGL in Gas Fields**

Summary:

Display range is from 0.00 to 1,250.00 MMBNGL  
Entire range is from 2.59 to 3,128.94 MMBNGL  
After 50,000 trials, the standard error of the mean is 1.31

Statistics:

	<u>Value</u>
Trials	50000
Mean	465.85
Median	410.07
Mode	---
Standard Deviation	293.68
Variance	86,248.88
Skewness	1.08
Kurtosis	4.59
Coefficient of Variability	0.63
Range Minimum	2.59
Range Maximum	3,128.94
Range Width	3,126.35
Mean Standard Error	1.31



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	2.59
95%	96.94
90%	141.31
85%	178.34
80%	212.22
75%	243.86
70%	275.37
65%	307.84
60%	340.08
55%	374.50
50%	410.07
45%	446.03
40%	486.33
35%	529.30
30%	576.32
25%	629.36
20%	691.38
15%	767.29
10%	865.88
5%	1,023.45
0%	3,128.94

End of Forecast

**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

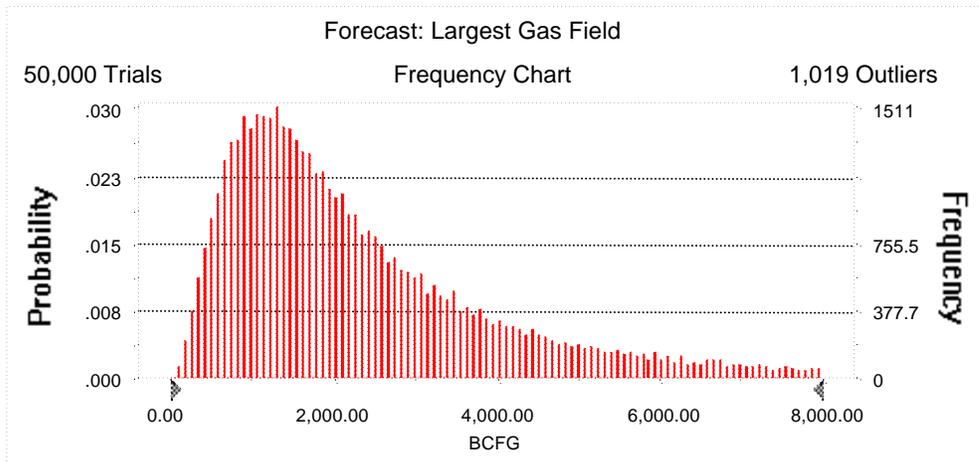
**Forecast: Largest Gas Field**

Summary:

Display range is from 0.00 to 8,000.00 BCFG  
Entire range is from 69.70 to 9,999.28 BCFG  
After 50,000 trials, the standard error of the mean is 8.20

Statistics:

	<u>Value</u>
Trials	50000
Mean	2,428.92
Median	1,882.19
Mode	---
Standard Deviation	1,833.27
Variance	3,360,879.10
Skewness	1.56
Kurtosis	5.46
Coefficient of Variability	0.75
Range Minimum	69.70
Range Maximum	9,999.28
Range Width	9,929.59
Mean Standard Error	8.20



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	69.70
95%	528.91
90%	712.38
85%	863.90
80%	1,003.97
75%	1,140.98
70%	1,278.98
65%	1,414.22
60%	1,559.06
55%	1,712.90
50%	1,882.19
45%	2,072.45
40%	2,278.87
35%	2,516.54
30%	2,799.17
25%	3,137.49
20%	3,559.06
15%	4,132.82
10%	4,969.99
5%	6,388.43
0%	9,999.28

End of Forecast

**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

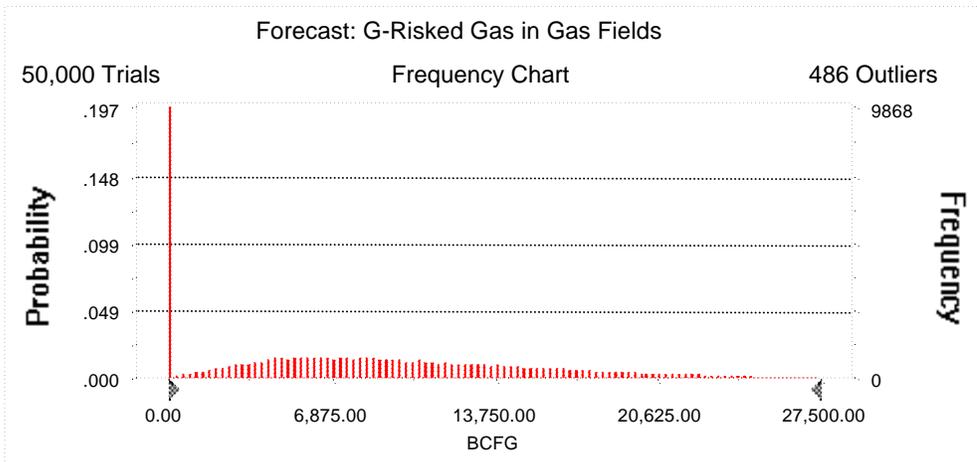
**Forecast: G-Riskied Gas in Gas Fields**

Summary:

Display range is from 0.00 to 27,500.00 BCFG  
 Entire range is from 0.00 to 49,598.07 BCFG  
 After 50,000 trials, the standard error of the mean is 31.15

Statistics:

	<u>Value</u>
Trials	50000
Mean	8,500.29
Median	7,671.09
Mode	0.00
Standard Deviation	6,964.63
Variance	48,506,059.80
Skewness	0.69
Kurtosis	3.11
Coefficient of Variability	0.82
Range Minimum	0.00
Range Maximum	49,598.07
Range Width	49,598.07
Mean Standard Error	31.15



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

**Forecast: G-Riskied Gas in Gas Fields (cont'd)**

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	625.10
75%	2,723.31
70%	3,926.06
65%	4,920.99
60%	5,843.99
55%	6,741.96
50%	7,671.09
45%	8,607.79
40%	9,576.86
35%	10,654.01
30%	11,796.57
25%	13,044.71
20%	14,430.86
15%	16,061.71
10%	18,076.37
5%	21,273.94
0%	49,598.07

End of Forecast

**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

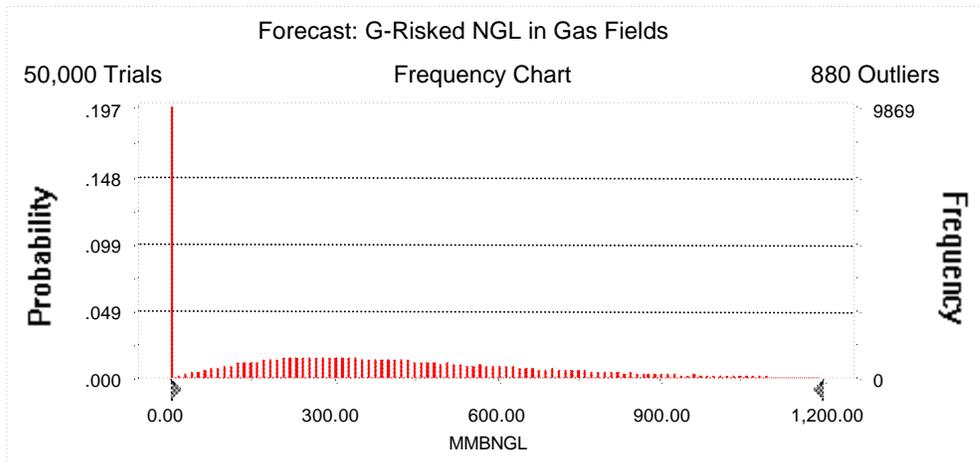
**Forecast: G-Risked NGL in Gas Fields**

Summary:

Display range is from 0.00 to 1,200.00 MMBNGL  
Entire range is from 0.00 to 3,128.94 MMBNGL  
After 50,000 trials, the standard error of the mean is 1.44

Statistics:

	<u>Value</u>
Trials	50000
Mean	373.58
Median	326.15
Mode	0.00
Standard Deviation	321.00
Variance	103,041.31
Skewness	0.94
Kurtosis	4.01
Coefficient of Variability	0.86
Range Minimum	0.00
Range Maximum	3,128.94
Range Width	3,128.94
Mean Standard Error	1.44



**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	25.41
75%	113.01
70%	163.13
65%	206.32
60%	246.39
55%	285.23
50%	326.15
45%	367.42
40%	411.27
35%	456.63
30%	507.91
25%	564.82
20%	628.46
15%	706.37
10%	811.63
5%	972.78
0%	3,128.94

End of Forecast

**11500301**  
**Upper Paleozoic Carbonates**  
**Monte Carlo Results**

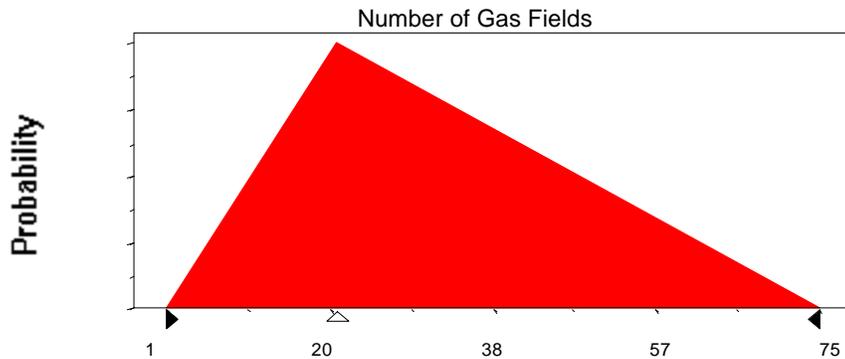
**Assumptions**

**Assumption: Number of Gas Fields**

Triangular distribution with parameters:

Minimum	1
Likeliest	20
Maximum	75

Selected range is from 1 to 75  
Mean value in simulation was 32



**Assumption: Sizes of Gas Fields**

Lognormal distribution with parameters:

Mean	286.81
Standard Deviation	867.81

Shifted parameters

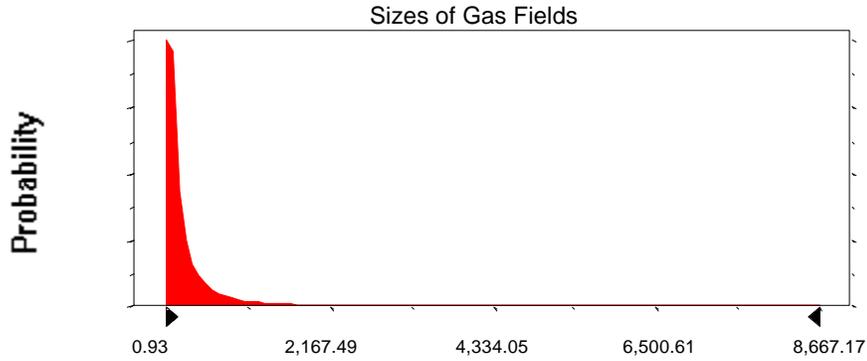
346.81
867.81

Selected range is from 0.00 to 9,940.00  
Mean value in simulation was 275.10

60.00 to 10,000.00  
335.1

11500301  
Upper Paleozoic Carbonates  
Monte Carlo Results

Assumption: Sizes of Gas Fields (cont'd)



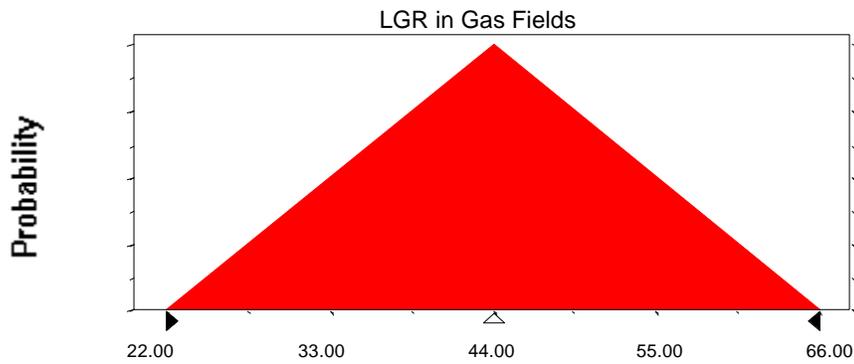
Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00

Mean value in simulation was 43.99



End of Assumptions

Simulation started on 12/30/99 at 15:01:49  
Simulation stopped on 12/30/99 at 15:25:02