

**North Gulf Salt Basin Structural Gas, Assessment Unit 20210102
Assessment Results Summary**

[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results shown are fully risked estimates. For gas fields, all liquids are included under the NGL (natural gas liquids) category. F95 represents a 95 percent chance of at least the amount tabulated. Other fractiles are defined similarly. Fractiles are additive under the assumption of perfect positive correlation. Shading indicates not applicable]

Field Type	MFS	Prob. (0-1)	Undiscovered Resources												Largest Undiscovered Field (MMBO or BCFG)			
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)				F95	F50	F5	Mean
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean				
Oil Fields	20	1.00	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA
Gas Fields	120					62,441	146,137	266,549	152,952	2,491	6,251	12,578	6,727	7,840	19,683	48,051	22,624	
Total		1.00	0	0	0	62,441	146,137	266,549	152,952	2,491	6,251	12,578	6,727					

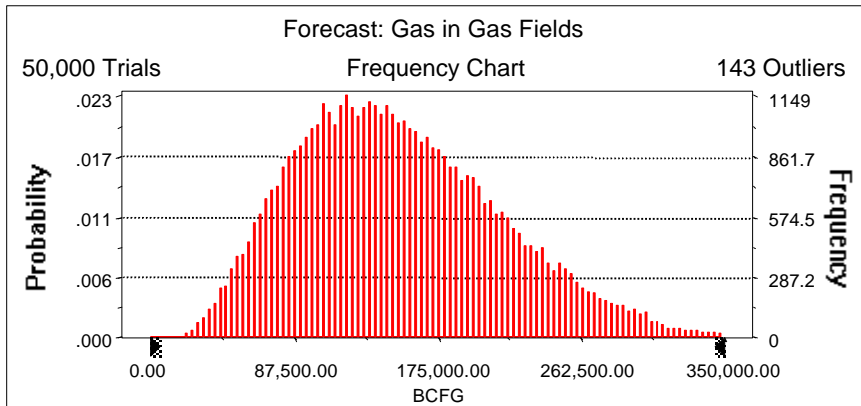
20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 350,000.00 BCFG
Entire range is from 16,719.45 to 463,079.60 BCFG
After 50,000 trials, the standard error of the mean is 279.95

Statistics:	Value
Trials	50000
Mean	152,951.97
Median	146,136.63
Mode	---
Standard Deviation	62,599.73
Variance	3,918,726,167.18
Skewness	0.53
Kurtosis	3.00
Coefficient of Variability	0.41
Range Minimum	16,719.45
Range Maximum	463,079.60
Range Width	446,360.14
Mean Standard Error	279.95



20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	16,719.45
95%	62,440.60
90%	76,610.42
85%	87,637.46
80%	97,314.20
75%	105,909.83
70%	114,181.96
65%	122,080.77
60%	130,200.34
55%	138,040.06
50%	146,136.63
45%	154,498.70
40%	163,266.70
35%	172,415.72
30%	182,415.52
25%	193,540.39
20%	205,733.98
15%	220,119.83
10%	238,909.90
5%	266,548.71
0%	463,079.60

End of Forecast

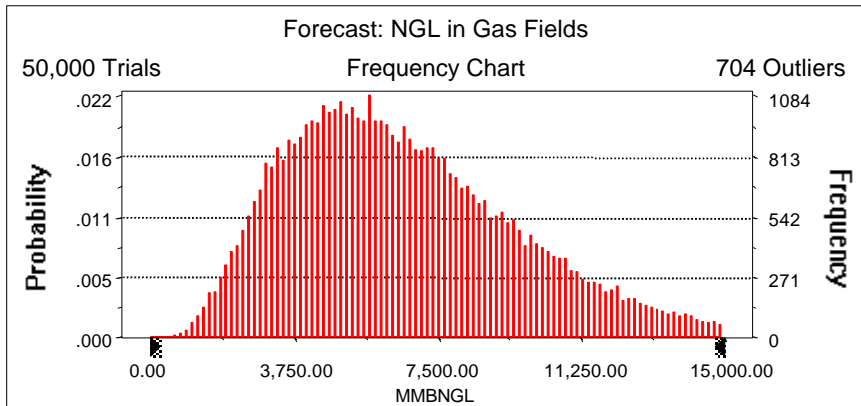
20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 15,000.00 MMBNGL
Entire range is from 606.08 to 24,104.38 MMBNGL
After 50,000 trials, the standard error of the mean is 13.97

Statistics:	Value
Trials	50000
Mean	6,726.53
Median	6,251.26
Mode	---
Standard Deviation	3,123.28
Variance	9,754,879.62
Skewness	0.79
Kurtosis	3.60
Coefficient of Variability	0.46
Range Minimum	606.08
Range Maximum	24,104.38
Range Width	23,498.31
Mean Standard Error	13.97



20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	606.08
95%	2,491.37
90%	3,100.79
85%	3,567.46
80%	3,997.53
75%	4,383.19
70%	4,756.57
65%	5,122.14
60%	5,493.74
55%	5,863.18
50%	6,251.26
45%	6,666.12
40%	7,090.03
35%	7,533.45
30%	8,024.38
25%	8,591.52
20%	9,249.21
15%	10,013.52
10%	10,986.80
5%	12,578.43
0%	24,104.38

End of Forecast

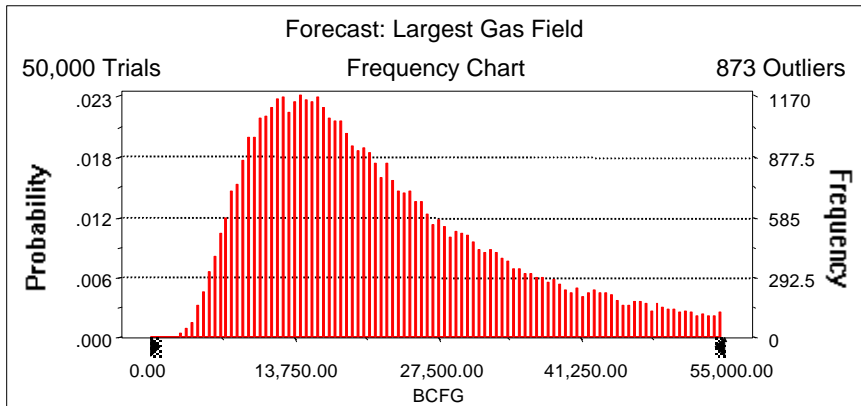
20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 55,000.00 BCFG
Entire range is from 1,952.33 to 59,998.48 BCFG
After 50,000 trials, the standard error of the mean is 54.44

Statistics:	Value
Trials	50000
Mean	22,623.63
Median	19,682.70
Mode	---
Standard Deviation	12,172.70
Variance	148,174,568.22
Skewness	0.95
Kurtosis	3.32
Coefficient of Variability	0.54
Range Minimum	1,952.33
Range Maximum	59,998.48
Range Width	58,046.14
Mean Standard Error	54.44



20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	1,952.33
95%	7,840.06
90%	9,543.01
85%	10,904.36
80%	12,166.86
75%	13,377.38
70%	14,575.73
65%	15,778.78
60%	16,975.30
55%	18,285.34
50%	19,682.70
45%	21,168.30
40%	22,857.63
35%	24,728.93
30%	26,809.84
25%	29,350.88
20%	32,259.84
15%	35,911.19
10%	40,914.19
5%	48,050.72
0%	59,998.48

End of Forecast

20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

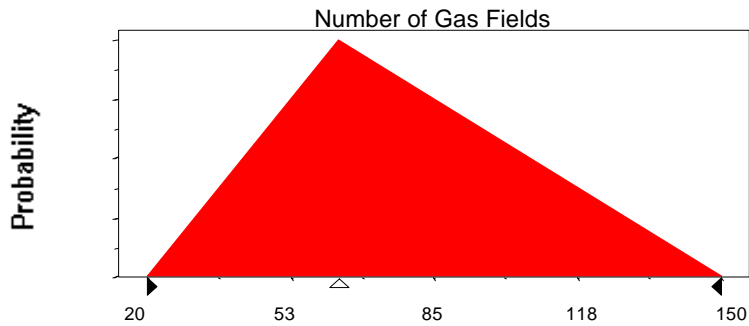
Assumptions

Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	20
Likeliest	63
Maximum	150

Selected range is from 20 to 150
Mean value in simulation was 78



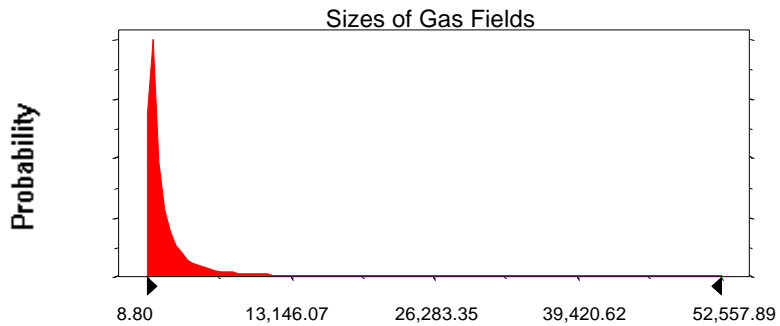
Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,943.36	2,063.36
Standard Deviation	5,202.78	5,202.78

Selected range is from 0.00 to 59,880.00 120.00 to 60,000.00
Mean value in simulation was 1,868.06 1,988.06

20210102
North Gulf Salt Basin Structural Gas
Monte Carlo Results

Assumption: Sizes of Gas Fields (cont'd)



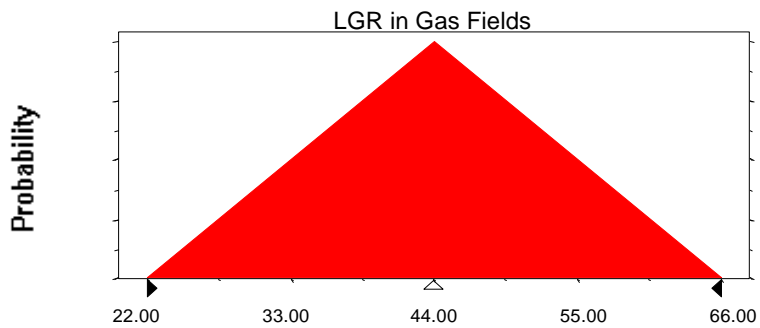
Assumption: LGR in Gas Fields

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 43.96



End of Assumptions

Simulation started on 5/27/99 at 16:38:03
Simulation stopped on 5/27/99 at 17:20:20