

Transylvanian Neogene Suprasalt Gas, Assessment Unit 40570101 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	1	1.00	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA
Gas Fields	6					460	1,846	4,490	2,083	1	6	15	6	95	331	1,063	417	
Total		1.00	0	0	0	460	1,846	4,490	2,083	1	6	15	6					

40570101
Transylvanian Neogene Suprasalt Gas
Monte Carlo Results

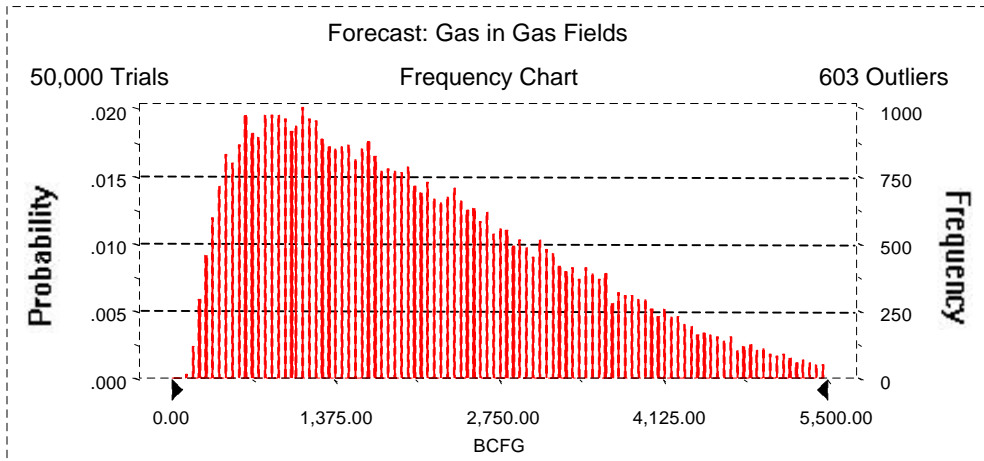
Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 5,500.00 BCFG
Entire range is from 104.17 to 9,561.07 BCFG
After 50,000 trials, the standard error of the mean is 5.70

Statistics:

	<u>Value</u>
Trials	50000
Mean	2,083.09
Median	1,845.67
Mode	---
Standard Deviation	1,274.95
Variance	1,625,500.10
Skewness	0.81
Kurtosis	3.28
Coefficient of Variability	0.61
Range Minimum	104.17
Range Maximum	9,561.07
Range Width	9,456.90
Mean Standard Error	5.70



40570101
Transylvanian Neogene Suprasalt Gas
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	104.17
95%	460.16
90%	625.03
85%	772.07
80%	913.59
75%	1,058.62
70%	1,201.37
65%	1,352.12
60%	1,512.33
55%	1,673.16
50%	1,845.67
45%	2,022.66
40%	2,217.28
35%	2,421.06
30%	2,641.02
25%	2,889.63
20%	3,168.31
15%	3,497.88
10%	3,901.37
5%	4,489.78
0%	9,561.07

End of Forecast

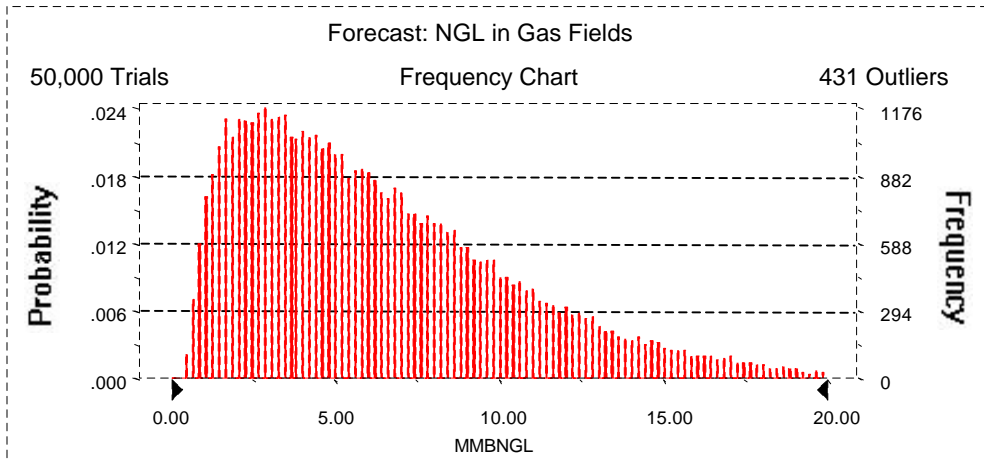
40570101
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 20.00 MMBNGL
Entire range is from 0.39 to 41.34 MMBNGL
After 50,000 trials, the standard error of the mean is 0.02

Statistics:	<u>Value</u>
Trials	50000
Mean	6.48
Median	5.56
Mode	---
Standard Deviation	4.29
Variance	18.43
Skewness	1.15
Kurtosis	4.67
Coefficient of Variability	0.66
Range Minimum	0.39
Range Maximum	41.34
Range Width	40.95
Mean Standard Error	0.02



40570101
Transylvanian Neogene Suprasalt Gas
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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.39
95%	1.35
90%	1.83
85%	2.29
80%	2.73
75%	3.16
70%	3.60
65%	4.07
60%	4.54
55%	5.03
50%	5.56
45%	6.12
40%	6.72
35%	7.35
30%	8.07
25%	8.83
20%	9.75
15%	10.87
10%	12.39
5%	14.80
0%	41.34

End of Forecast

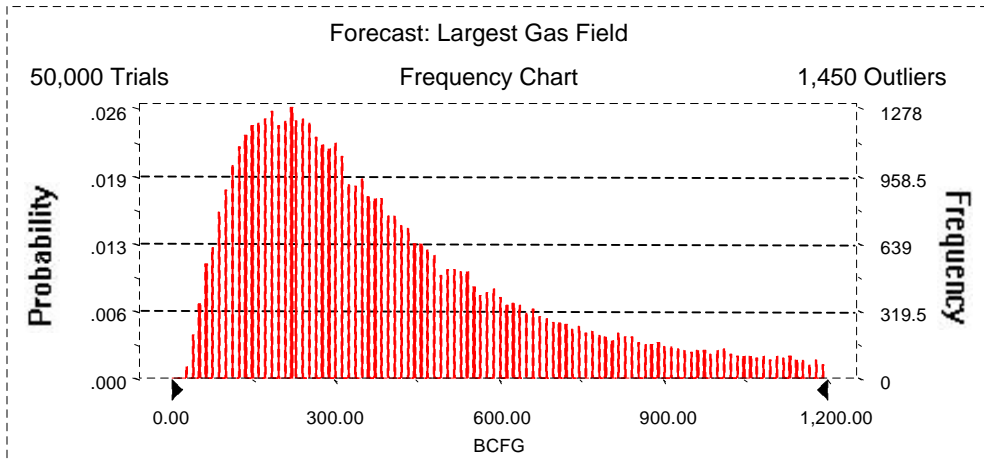
40570101
Transylvanian Neogene Suprasalt Gas
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 1,200.00 BCFG
 Entire range is from 17.54 to 1,499.98 BCFG
 After 50,000 trials, the standard error of the mean is 1.33

Statistics:	<u>Value</u>
Trials	50000
Mean	416.62
Median	331.10
Mode	---
Standard Deviation	296.86
Variance	88,125.85
Skewness	1.34
Kurtosis	4.47
Coefficient of Variability	0.71
Range Minimum	17.54
Range Maximum	1,499.98
Range Width	1,482.44
Mean Standard Error	1.33



40570101
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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	17.54
95%	94.90
90%	125.66
85%	151.47
80%	176.42
75%	200.69
70%	224.96
65%	249.61
60%	274.98
55%	301.98
50%	331.10
45%	363.57
40%	399.19
35%	439.41
30%	487.28
25%	544.78
20%	618.14
15%	712.81
10%	848.75
5%	1,063.20
0%	1,499.98

End of Forecast

40570101
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Assumptions

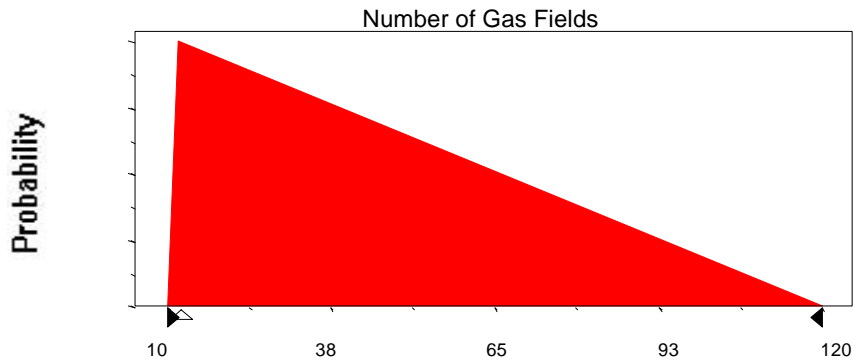
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	12
Maximum	120

Selected range is from 10 to 120

Mean value in simulation was 47



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:

Mean	40.60
Standard Deviation	131.20

Shifted parameters

46.6
131.2

Selected range is from 0.00 to 1,494.00

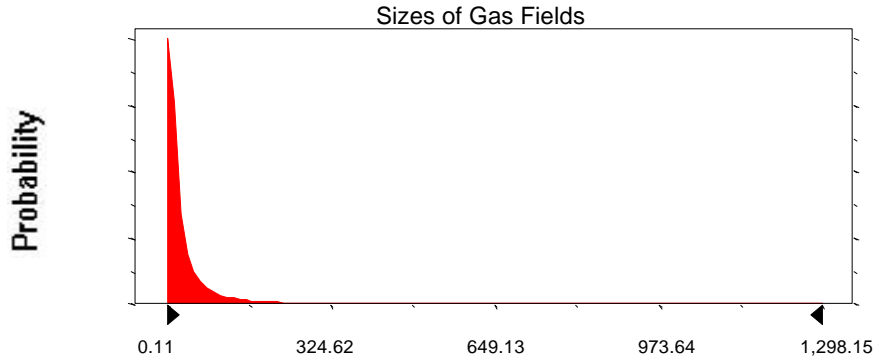
Mean value in simulation was 37.78

6.00 to 1,500.00

43.78

40570101
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Assumption: Sizes of Gas Fields (cont'd)

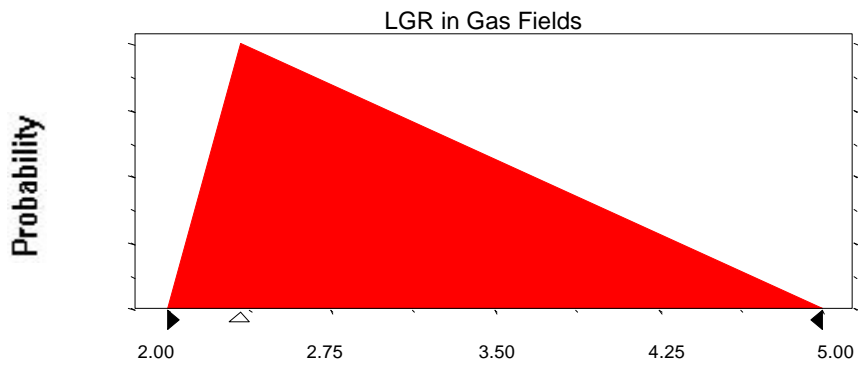


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	2.00
Likeliest	2.33
Maximum	5.00

Selected range is from 2.00 to 5.00
Mean value in simulation was 3.11



End of Assumptions

Simulation started on 3/16/99 at 8:32:39
Simulation stopped on 3/16/99 at 9:03:17