

Inner Forearc Deformation Belt, Assessment Unit 61070101
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	15	0.50	0	157	6,092	1,536	0	333	13,598	3,383	0	19	833	203	168	746	3,056	1,048
Gas Fields	90						0	906	33,278	8,574	0	39	1,502	378	971	4,077	15,712	5,567
Total		0.50	0	157	6,092	1,536	0	1,238	46,876	11,957	0	57	2,334	582				

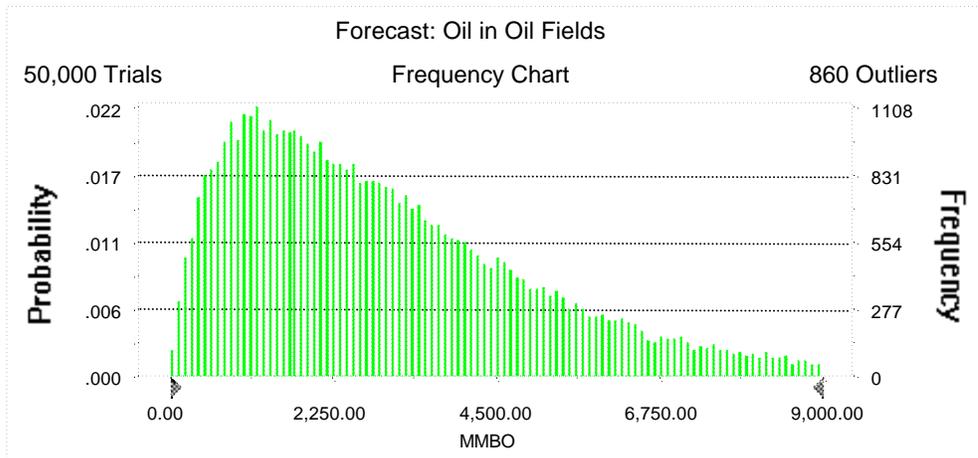
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Inner Forearc Deformation Belt
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 9,000.00 MMBO
Entire range is from 15.60 to 18,866.43 MMBO
After 50,000 trials, the standard error of the mean is 9.71

Statistics:	Value
Trials	50000
Mean	3,049.58
Median	2,573.21
Mode	---
Standard Deviation	2,170.89
Variance	4,712,777.68
Skewness	1.20
Kurtosis	4.77
Coefficient of Variability	0.71
Range Minimum	15.60
Range Maximum	18,866.43
Range Width	18,850.83
Mean Standard Error	9.71



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	15.60
95%	480.41
90%	738.36
85%	962.92
80%	1,174.56
75%	1,383.49
70%	1,609.49
65%	1,830.18
60%	2,067.20
55%	2,313.00
50%	2,573.21
45%	2,850.67
40%	3,135.94
35%	3,450.23
30%	3,798.69
25%	4,204.60
20%	4,674.34
15%	5,250.59
10%	6,038.03
5%	7,299.41
0%	18,866.43

End of Forecast

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Forecast: Gas in Oil Fields

Summary:

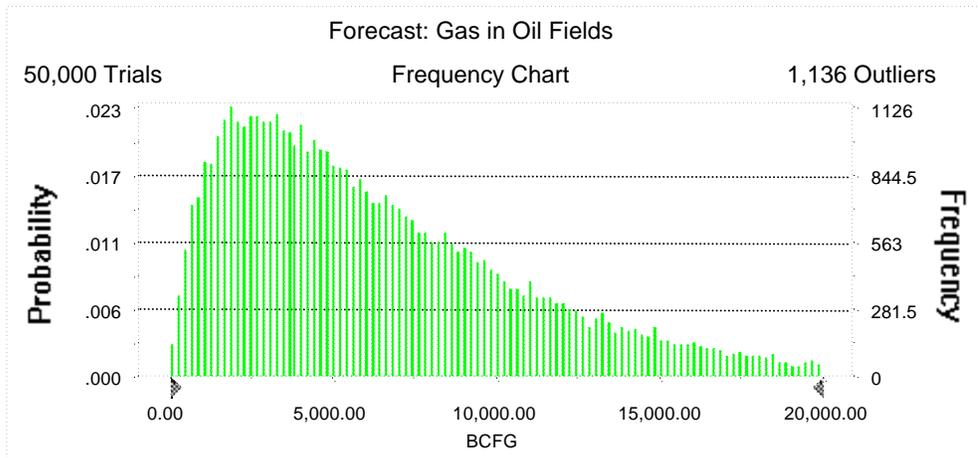
Display range is from 0.00 to 20,000.00 BCFG

Entire range is from 33.66 to 51,558.23 BCFG

After 50,000 trials, the standard error of the mean is 22.67

Statistics:

	<u>Value</u>
Trials	50000
Mean	6,715.00
Median	5,477.38
Mode	---
Standard Deviation	5,070.24
Variance	25,707,382.20
Skewness	1.45
Kurtosis	6.10
Coefficient of Variability	0.76
Range Minimum	33.66
Range Maximum	51,558.23
Range Width	51,524.57
Mean Standard Error	22.67



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	33.66
95%	1,000.82
90%	1,538.61
85%	2,000.28
80%	2,469.38
75%	2,931.62
70%	3,396.20
65%	3,890.19
60%	4,388.59
55%	4,916.44
50%	5,477.38
45%	6,084.89
40%	6,760.57
35%	7,475.12
30%	8,313.70
25%	9,219.32
20%	10,284.12
15%	11,689.32
10%	13,542.48
5%	16,570.89
0%	51,558.23

End of Forecast

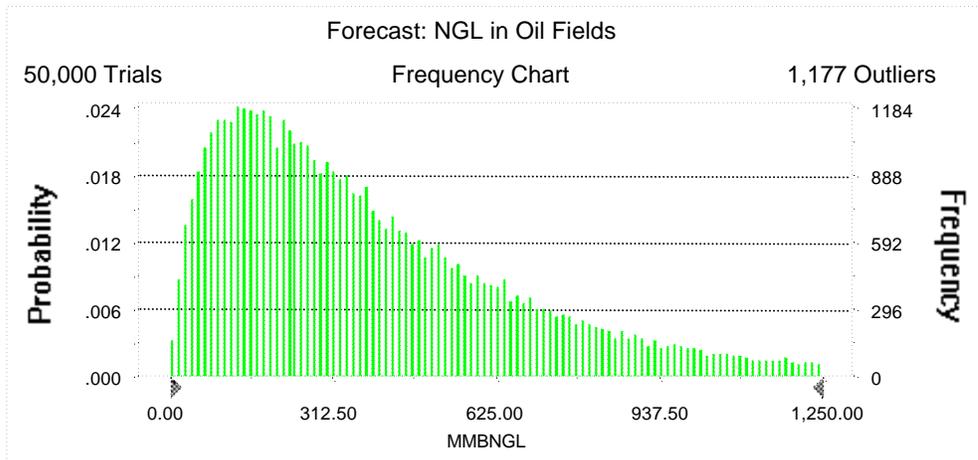
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Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 1,250.00 MMBNGL
Entire range is from 1.79 to 4,036.23 MMBNGL
After 50,000 trials, the standard error of the mean is 1.44

Statistics:	<u>Value</u>
Trials	50000
Mean	403.73
Median	319.56
Mode	---
Standard Deviation	322.85
Variance	104,228.98
Skewness	1.67
Kurtosis	7.45
Coefficient of Variability	0.80
Range Minimum	1.79
Range Maximum	4,036.23
Range Width	4,034.44
Mean Standard Error	1.44



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	1.79
95%	56.69
90%	87.10
85%	115.08
80%	141.84
75%	169.01
70%	195.51
65%	224.66
60%	254.14
55%	285.46
50%	319.56
45%	355.30
40%	394.29
35%	440.05
30%	492.12
25%	550.16
20%	622.05
15%	709.12
10%	831.25
5%	1,038.02
0%	4,036.23

End of Forecast

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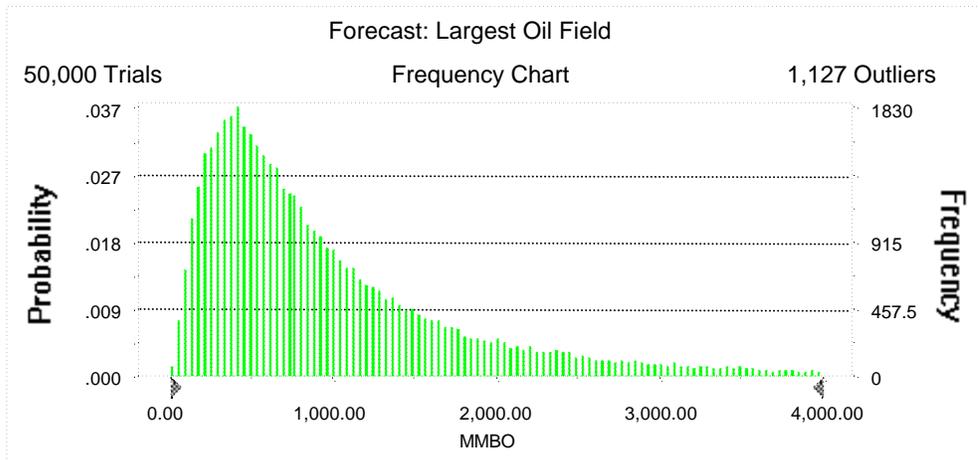
Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 4,000.00 MMBO
Entire range is from 15.60 to 5,999.54 MMBO
After 50,000 trials, the standard error of the mean is 4.27

Statistics:

	<u>Value</u>
Trials	50000
Mean	1,047.70
Median	745.81
Mode	---
Standard Deviation	954.87
Variance	911,769.56
Skewness	2.06
Kurtosis	8.04
Coefficient of Variability	0.91
Range Minimum	15.60
Range Maximum	5,999.54
Range Width	5,983.94
Mean Standard Error	4.27



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	15.60
95%	168.23
90%	238.88
85%	300.92
80%	359.58
75%	415.48
70%	471.92
65%	533.36
60%	598.79
55%	668.16
50%	745.81
45%	827.61
40%	924.99
35%	1,036.97
30%	1,169.64
25%	1,333.93
20%	1,537.33
15%	1,820.19
10%	2,256.66
5%	3,055.79
0%	5,999.54

End of Forecast

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Inner Forearc Deformation Belt
Monte Carlo Results

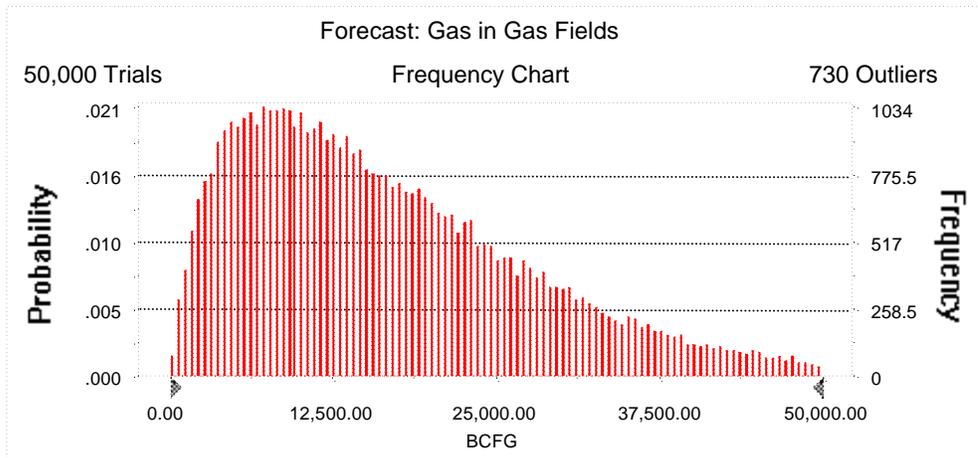
Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 50,000.00 BCFG
Entire range is from 106.24 to 102,897.58 BCFG
After 50,000 trials, the standard error of the mean is 52.71

Statistics:

	<u>Value</u>
Trials	50000
Mean	17,115.44
Median	14,615.39
Mode	---
Standard Deviation	11,787.31
Variance	138,940,722.10
Skewness	1.11
Kurtosis	4.48
Coefficient of Variability	0.69
Range Minimum	106.24
Range Maximum	102,897.58
Range Width	102,791.34
Mean Standard Error	52.71



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	106.24
95%	2,807.99
90%	4,270.19
85%	5,579.08
80%	6,835.73
75%	8,057.17
70%	9,272.46
65%	10,529.75
60%	11,833.93
55%	13,195.72
50%	14,615.39
45%	16,161.04
40%	17,809.96
35%	19,559.56
30%	21,480.22
25%	23,611.13
20%	26,196.38
15%	29,289.25
10%	33,334.48
5%	39,848.16
0%	102,897.58

End of Forecast

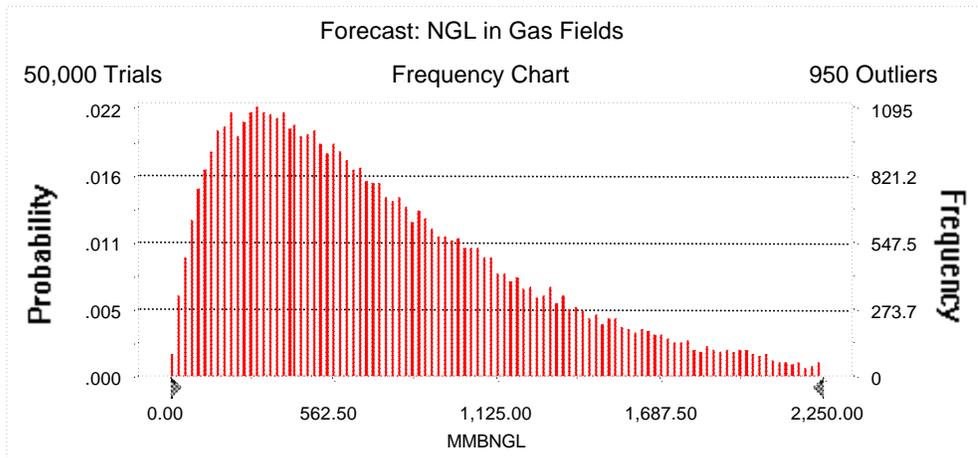
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 2,250.00 MMBNGL
 Entire range is from 3.65 to 5,095.34 MMBNGL
 After 50,000 trials, the standard error of the mean is 2.46

Statistics:	<u>Value</u>
Trials	50000
Mean	752.72
Median	623.86
Mode	---
Standard Deviation	549.99
Variance	302,483.51
Skewness	1.34
Kurtosis	5.50
Coefficient of Variability	0.73
Range Minimum	3.65
Range Maximum	5,095.34
Range Width	5,091.70
Mean Standard Error	2.46



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	3.65
95%	117.71
90%	178.62
85%	233.12
80%	287.45
75%	339.03
70%	392.23
65%	446.48
60%	503.13
55%	563.00
50%	623.86
45%	691.08
40%	763.99
35%	845.40
30%	933.27
25%	1,034.02
20%	1,149.37
15%	1,302.31
10%	1,501.16
5%	1,820.91
0%	5,095.34

End of Forecast

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Forecast: Largest Gas Field

Summary:

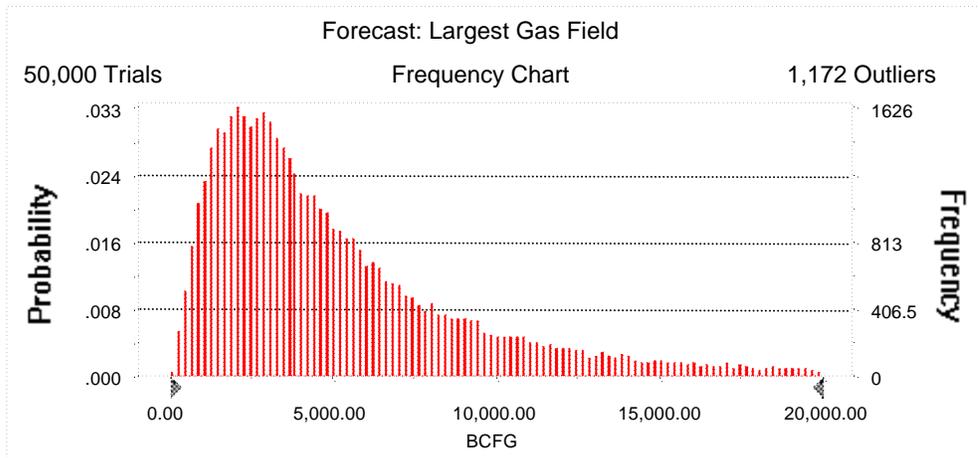
Display range is from 0.00 to 20,000.00 BCFG

Entire range is from 106.24 to 29,995.84 BCFG

After 50,000 trials, the standard error of the mean is 21.56

Statistics:

	<u>Value</u>
Trials	50000
Mean	5,566.67
Median	4,077.10
Mode	---
Standard Deviation	4,820.53
Variance	23,237,463.93
Skewness	1.97
Kurtosis	7.62
Coefficient of Variability	0.87
Range Minimum	106.24
Range Maximum	29,995.84
Range Width	29,889.60
Mean Standard Error	21.56



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	106.24
95%	971.25
90%	1,366.90
85%	1,704.69
80%	2,027.29
75%	2,336.51
70%	2,665.81
65%	2,978.45
60%	3,311.75
55%	3,667.54
50%	4,077.10
45%	4,531.61
40%	5,029.67
35%	5,600.61
30%	6,259.28
25%	7,080.14
20%	8,165.69
15%	9,563.90
10%	11,703.75
5%	15,711.51
0%	29,995.84

End of Forecast

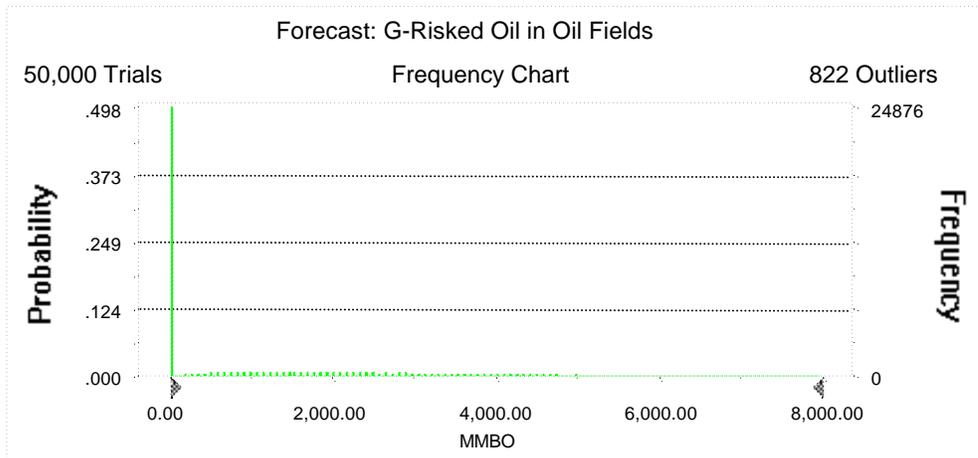
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Forecast: G-Riskied Oil in Oil Fields

Summary:

Display range is from 0.00 to 8,000.00 MMBO
 Entire range is from 0.00 to 18,165.90 MMBO
 After 50,000 trials, the standard error of the mean is 9.71

Statistics:	<u>Value</u>
Trials	50000
Mean	1,535.56
Median	157.37
Mode	0.00
Standard Deviation	2,170.74
Variance	4,712,108.45
Skewness	1.67
Kurtosis	5.92
Coefficient of Variability	1.41
Range Minimum	0.00
Range Maximum	18,165.90
Range Width	18,165.90
Mean Standard Error	9.71



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Forecast: G-Risk Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	157.37
45%	770.60
40%	1,201.31
35%	1,626.41
30%	2,082.42
25%	2,585.04
20%	3,142.24
15%	3,816.24
10%	4,693.20
5%	6,091.77
0%	18,165.90

End of Forecast

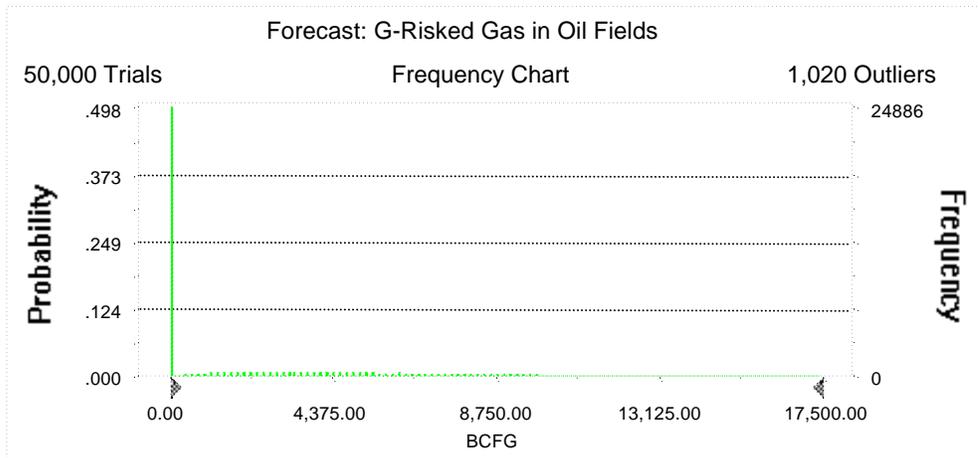
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Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 17,500.00 BCFG
 Entire range is from 0.00 to 51,558.23 BCFG
 After 50,000 trials, the standard error of the mean is 22.08

Statistics:	<u>Value</u>
Trials	50000
Mean	3,382.58
Median	332.89
Mode	0.00
Standard Deviation	4,936.20
Variance	24,366,109.18
Skewness	1.91
Kurtosis	7.61
Coefficient of Variability	1.46
Range Minimum	0.00
Range Maximum	51,558.23
Range Width	51,558.23
Mean Standard Error	22.08



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Forecast: G-Risked Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	332.89
45%	1,606.01
40%	2,519.25
35%	3,435.67
30%	4,422.24
25%	5,510.14
20%	6,766.64
15%	8,324.41
10%	10,348.76
5%	13,597.63
0%	51,558.23

End of Forecast

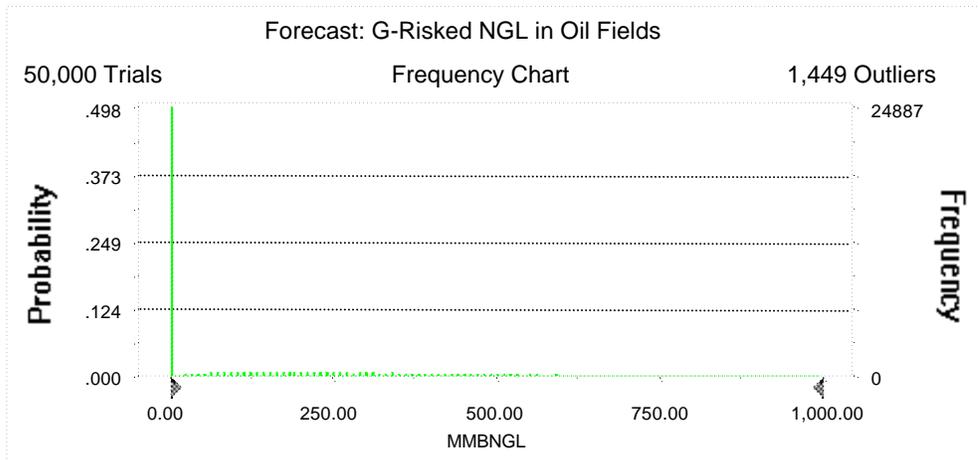
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Forecast: G-Riskd NGL in Oil Fields

Summary:

Display range is from 0.00 to 1,000.00 MMBNGL
 Entire range is from 0.00 to 4,036.23 MMBNGL
 After 50,000 trials, the standard error of the mean is 1.37

Statistics:	<u>Value</u>
Trials	50000
Mean	203.36
Median	18.58
Mode	0.00
Standard Deviation	306.31
Variance	93,823.39
Skewness	2.14
Kurtosis	9.40
Coefficient of Variability	1.51
Range Minimum	0.00
Range Maximum	4,036.23
Range Width	4,036.23
Mean Standard Error	1.37



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Forecast: G-Risked NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	18.58
45%	90.67
40%	144.83
35%	198.13
30%	256.84
25%	322.40
20%	396.44
15%	493.33
10%	623.23
5%	832.65
0%	4,036.23

End of Forecast

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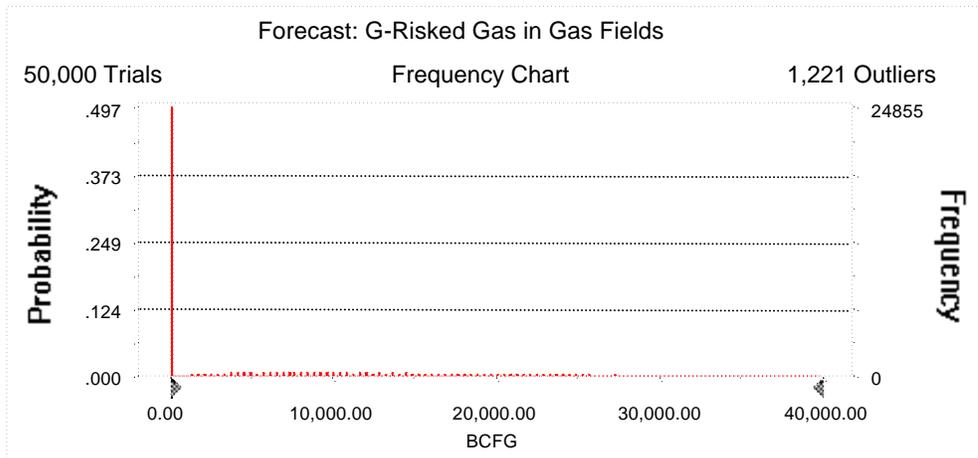
Forecast: G-Risk Gas in Gas Fields

Summary:

Display range is from 0.00 to 40,000.00 BCFG
 Entire range is from 0.00 to 85,530.46 BCFG
 After 50,000 trials, the standard error of the mean is 53.32

Statistics:

	<u>Value</u>
Trials	50000
Mean	8,574.12
Median	905.54
Mode	0.00
Standard Deviation	11,923.24
Variance	142,163,713.57
Skewness	1.57
Kurtosis	5.37
Coefficient of Variability	1.39
Range Minimum	0.00
Range Maximum	85,530.46
Range Width	85,530.46
Mean Standard Error	53.32



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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%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	905.54
45%	4,344.21
40%	6,868.19
35%	9,295.43
30%	11,850.60
25%	14,629.69
20%	17,894.91
15%	21,531.46
10%	26,187.98
5%	33,277.98
0%	85,530.46

End of Forecast

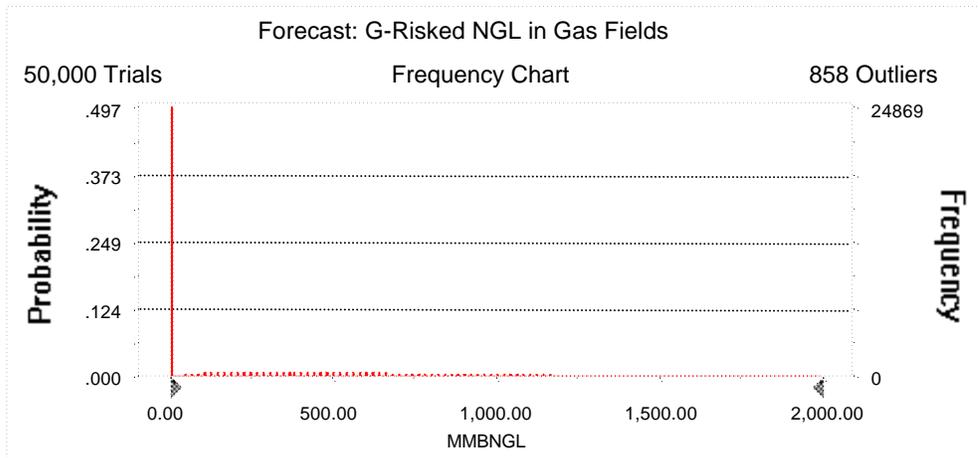
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Forecast: G-Riskied NGL in Gas Fields

Summary:

Display range is from 0.00 to 2,000.00 MMBNGL
 Entire range is from 0.00 to 4,830.07 MMBNGL
 After 50,000 trials, the standard error of the mean is 2.43

Statistics:	<u>Value</u>
Trials	50000
Mean	378.31
Median	38.72
Mode	0.00
Standard Deviation	542.26
Variance	294,042.50
Skewness	1.77
Kurtosis	6.50
Coefficient of Variability	1.43
Range Minimum	0.00
Range Maximum	4,830.07
Range Width	4,830.07
Mean Standard Error	2.43



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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%	0.00
75%	0.00
70%	0.00
65%	0.00
60%	0.00
55%	0.00
50%	38.72
45%	181.30
40%	289.13
35%	395.31
30%	504.54
25%	626.74
20%	765.76
15%	939.97
10%	1,155.11
5%	1,501.85
0%	4,830.07

End of Forecast

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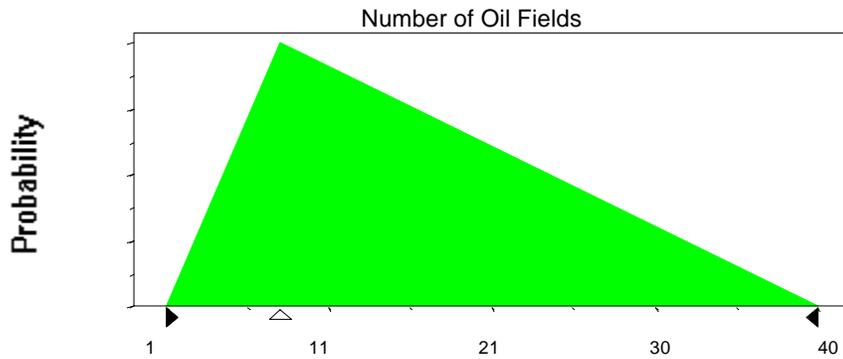
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	8
Maximum	40

Selected range is from 1 to 40
Mean value in simulation was 16



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	181.94
Standard Deviation	520.87

Shifted parameters

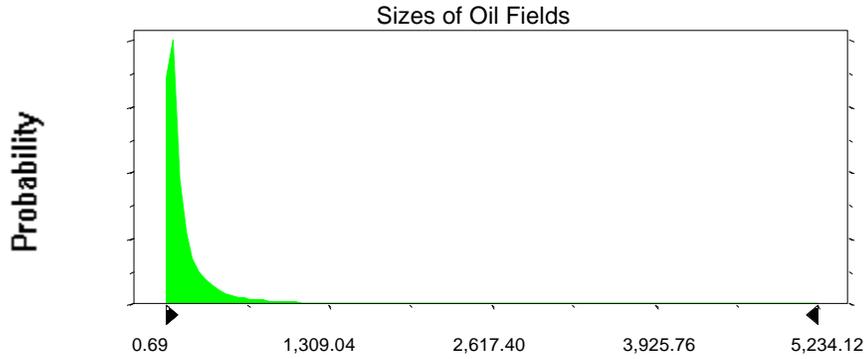
196.94
520.87

Selected range is from 0.00 to 5,985.00
Mean value in simulation was 170.35

15.00 to 6,000.00
185.35

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Assumption: Sizes of Oil Fields (cont'd)



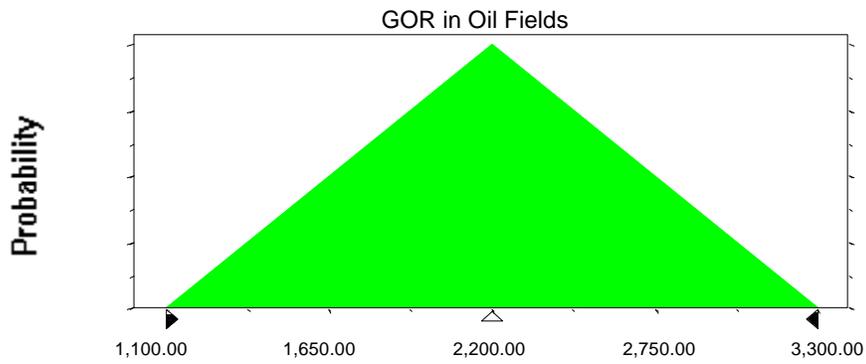
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,100.00
Likeliest	2,200.00
Maximum	3,300.00

Selected range is from 1,100.00 to 3,300.00

Mean value in simulation was 2,201.49



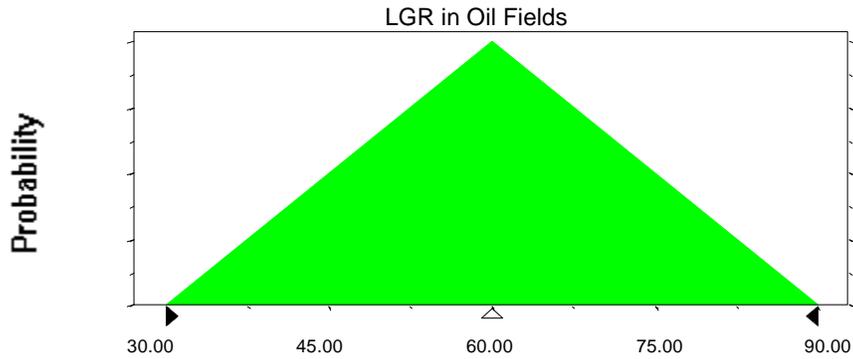
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Assumption: LGR in Oil Fields

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 60.01



Assumption: Number of Gas Fields

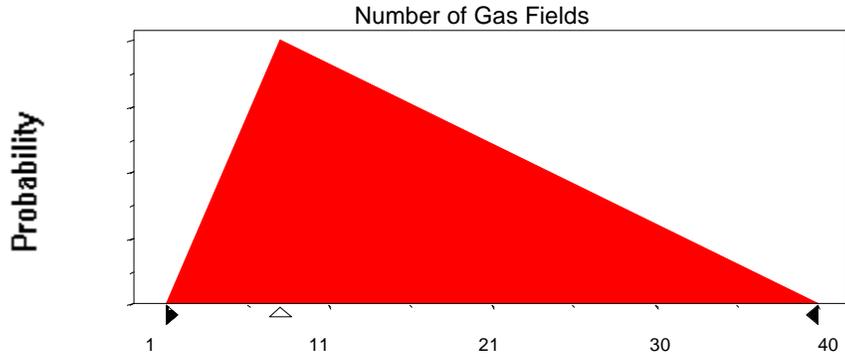
Triangular distribution with parameters:

Minimum	1
Likeliest	8
Maximum	40

Selected range is from 1 to 40
Mean value in simulation was 16

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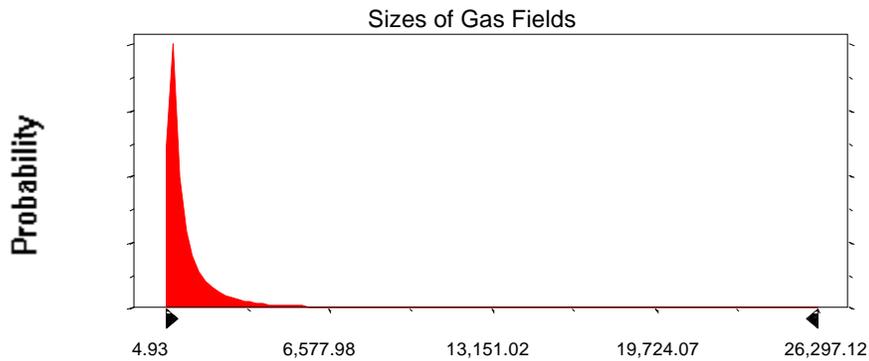
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	1,001.33	1,091.33
Standard Deviation	2,598.94	2,598.94

Selected range is from 0.00 to 29,910.00	90.00 to 30,000.00
Mean value in simulation was 968.63	1,058.63



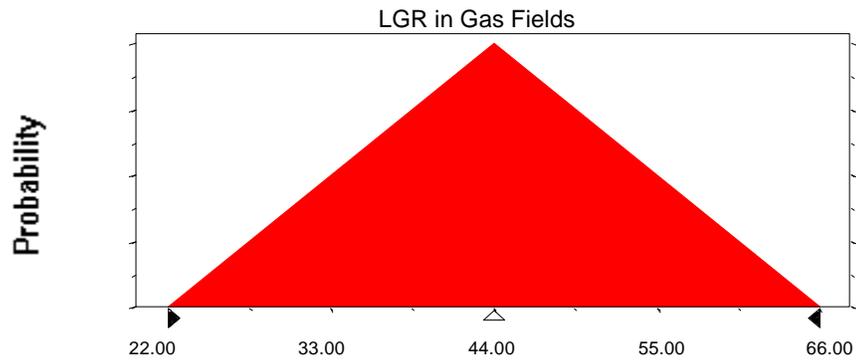
61070101
Inner Forearc Deformation Belt
Monte Carlo Results

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 44.01



End of Assumptions

Simulation started on 11/19/99 at 13:07:11
Simulation stopped on 11/19/99 at 13:29:39