

Mergui, Assessment Unit 38220102
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	5	0.95	6	86	243	101	13	167	509	203	1	10	32	12	10	30	118	42
Gas Fields	30						195	5,383	12,372	5,802	2	53	146	61	357	1,283	4,699	1,715
Total		0.95	6	86	243	101	208	5,550	12,881	6,005	3	62	178	73				

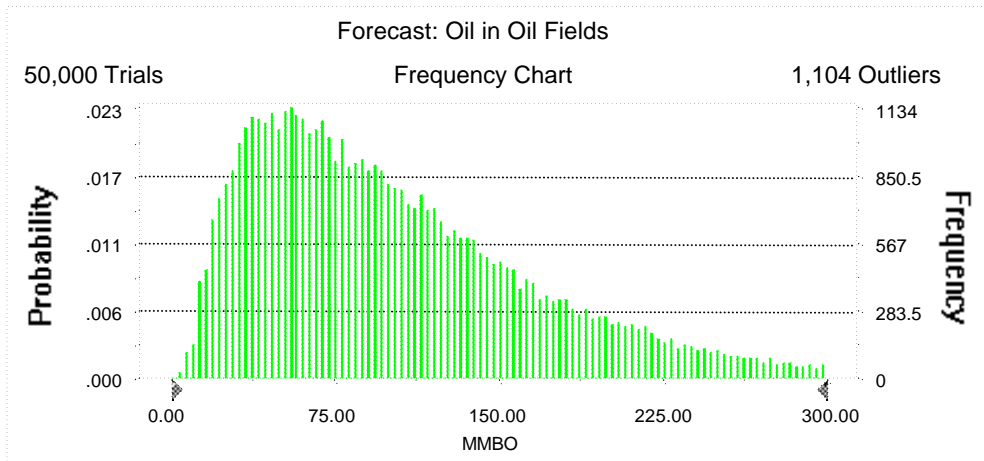
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Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 300.00 MMBO
Entire range is from 5.04 to 632.95 MMBO
After 50,000 trials, the standard error of the mean is 0.32

Statistics:	Value
Trials	50000
Mean	106.68
Median	89.99
Mode	---
Standard Deviation	72.61
Variance	5,272.21
Skewness	1.45
Kurtosis	6.06
Coefficient of Variability	0.68
Range Minimum	5.04
Range Maximum	632.95
Range Width	627.91
Mean Standard Error	0.32



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	5.04
95%	23.66
90%	32.22
85%	39.23
80%	46.19
75%	53.06
70%	59.68
65%	66.72
60%	73.94
55%	81.72
50%	89.99
45%	98.48
40%	107.82
35%	117.89
30%	129.20
25%	141.83
20%	157.12
15%	176.99
10%	203.79
5%	246.56
0%	632.95

End of Forecast

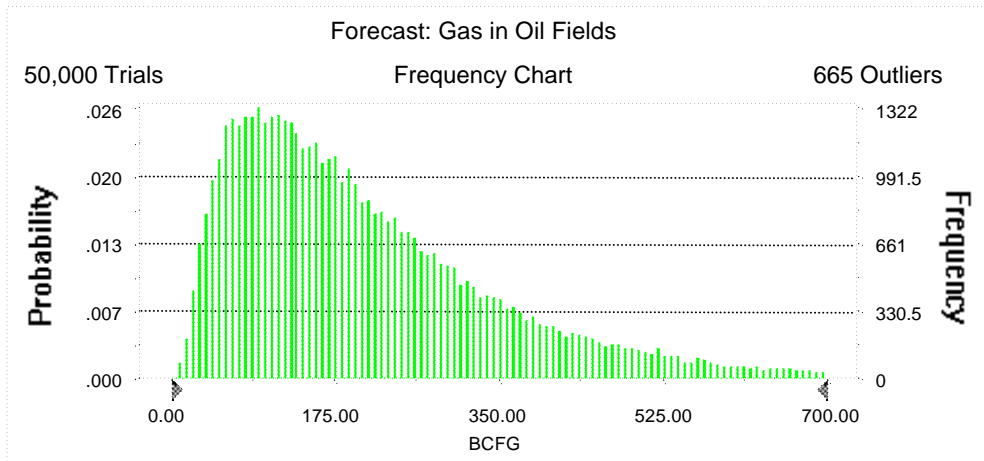
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 700.00 BCFG
Entire range is from 6.52 to 1,608.87 BCFG
After 50,000 trials, the standard error of the mean is 0.69

Statistics:	Value
Trials	50000
Mean	213.59
Median	175.43
Mode	---
Standard Deviation	154.71
Variance	23,935.82
Skewness	1.65
Kurtosis	7.23
Coefficient of Variability	0.72
Range Minimum	6.52
Range Maximum	1,608.87
Range Width	1,602.35
Mean Standard Error	0.69



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	6.52
95%	44.36
90%	60.65
85%	74.32
80%	88.13
75%	101.45
70%	115.27
65%	129.20
60%	143.76
55%	159.09
50%	175.43
45%	192.52
40%	211.40
35%	232.62
30%	255.82
25%	283.22
20%	315.46
15%	357.32
10%	417.05
5%	516.45
0%	1,608.87

End of Forecast

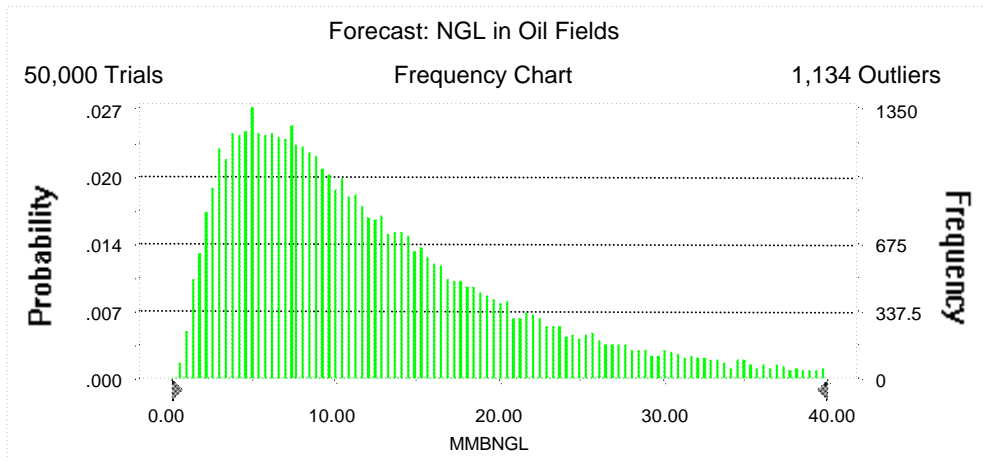
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Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 40.00 MMBNGL
Entire range is from 0.26 to 113.57 MMBNGL
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	Value
Trials	50000
Mean	12.81
Median	10.22
Mode	---
Standard Deviation	9.86
Variance	97.26
Skewness	1.86
Kurtosis	8.40
Coefficient of Variability	0.77
Range Minimum	0.26
Range Maximum	113.57
Range Width	113.30
Mean Standard Error	0.04



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.26
95%	2.49
90%	3.43
85%	4.26
80%	5.05
75%	5.85
70%	6.67
65%	7.48
60%	8.34
55%	9.23
50%	10.22
45%	11.27
40%	12.43
35%	13.71
30%	15.14
25%	16.81
20%	18.91
15%	21.62
10%	25.45
5%	32.15
0%	113.57

End of Forecast

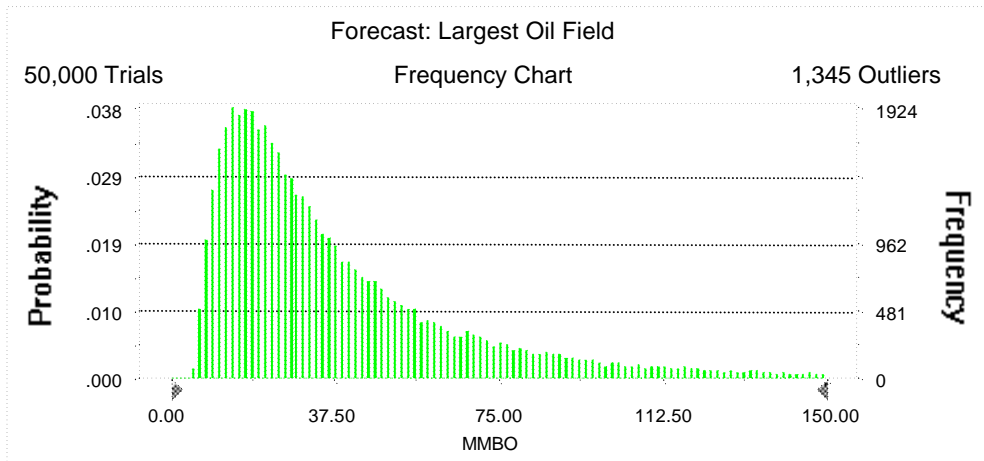
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Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 150.00 MMBO
Entire range is from 5.04 to 299.45 MMBO
After 50,000 trials, the standard error of the mean is 0.17

Statistics:	Value
Trials	50000
Mean	42.13
Median	30.00
Mode	---
Standard Deviation	38.19
Variance	1,458.30
Skewness	2.62
Kurtosis	12.15
Coefficient of Variability	0.91
Range Minimum	5.04
Range Maximum	299.45
Range Width	294.41
Mean Standard Error	0.17



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	5.04
95%	10.06
90%	12.37
85%	14.42
80%	16.41
75%	18.37
70%	20.40
65%	22.49
60%	24.74
55%	27.24
50%	30.00
45%	32.97
40%	36.46
35%	40.55
30%	45.37
25%	51.23
20%	58.82
15%	69.47
10%	85.59
5%	117.57
0%	299.45

End of Forecast

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Forecast: Gas in Gas Fields

Summary:

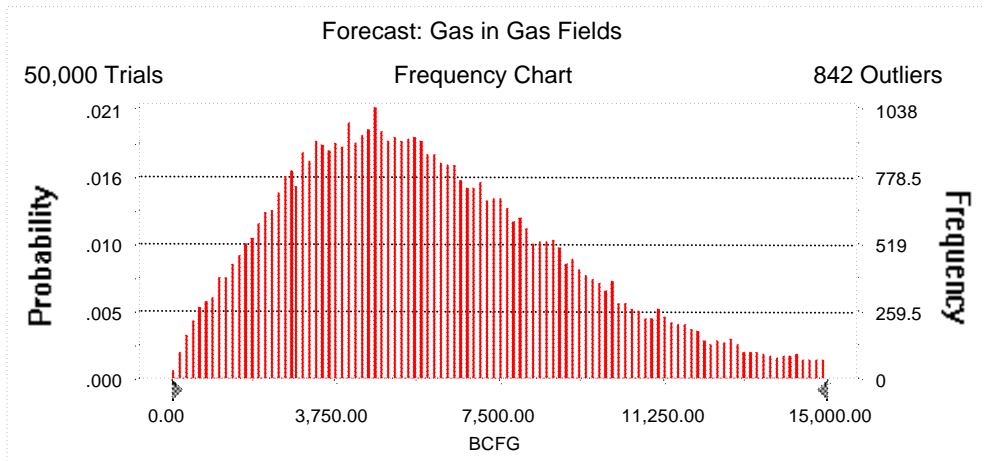
Display range is from 0.00 to 15,000.00 BCFG

Entire range is from 36.82 to 29,152.50 BCFG

After 50,000 trials, the standard error of the mean is 15.28

Statistics:

	<u>Value</u>
Trials	50000
Mean	6,099.65
Median	5,592.37
Mode	---
Standard Deviation	3,417.37
Variance	11,678,440.42
Skewness	0.89
Kurtosis	4.12
Coefficient of Variability	0.56
Range Minimum	36.82
Range Maximum	29,152.50
Range Width	29,115.68
Mean Standard Error	15.28



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	36.82
95%	1,438.65
90%	2,143.34
85%	2,681.81
80%	3,154.16
75%	3,578.76
70%	3,998.17
65%	4,399.53
60%	4,786.07
55%	5,189.77
50%	5,592.37
45%	6,014.14
40%	6,459.99
35%	6,951.01
30%	7,471.12
25%	8,053.54
20%	8,740.77
15%	9,560.45
10%	10,692.93
5%	12,490.72
0%	29,152.50

End of Forecast

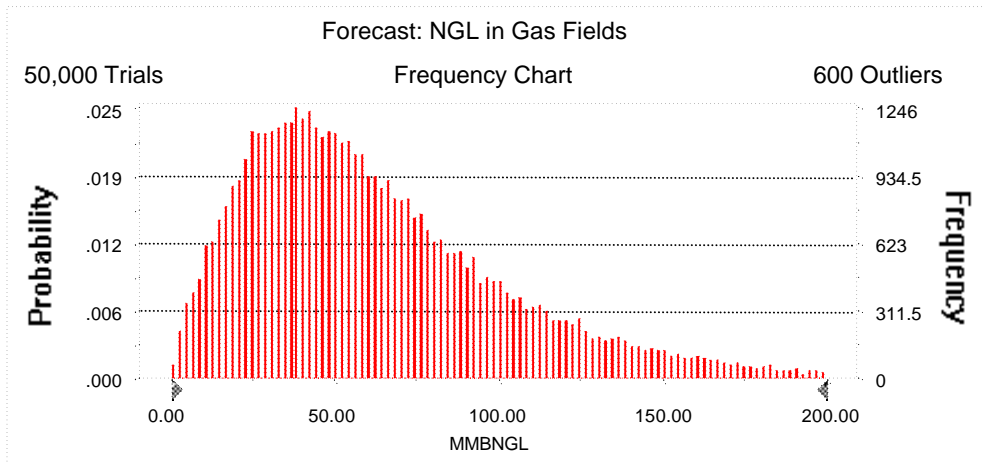
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 200.00 MMBNGL
Entire range is from 0.47 to 452.50 MMBNGL
After 50,000 trials, the standard error of the mean is 0.19

Statistics:	Value
Trials	50000
Mean	64.37
Median	55.01
Mode	---
Standard Deviation	43.00
Variance	1,848.90
Skewness	1.43
Kurtosis	6.19
Coefficient of Variability	0.67
Range Minimum	0.47
Range Maximum	452.50
Range Width	452.02
Mean Standard Error	0.19



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.47
95%	13.24
90%	19.59
85%	24.74
80%	29.07
75%	33.51
70%	37.75
65%	41.86
60%	46.03
55%	50.47
50%	55.01
45%	59.79
40%	65.18
35%	70.89
30%	77.32
25%	84.98
20%	93.91
15%	105.42
10%	121.24
5%	147.51
0%	452.50

End of Forecast

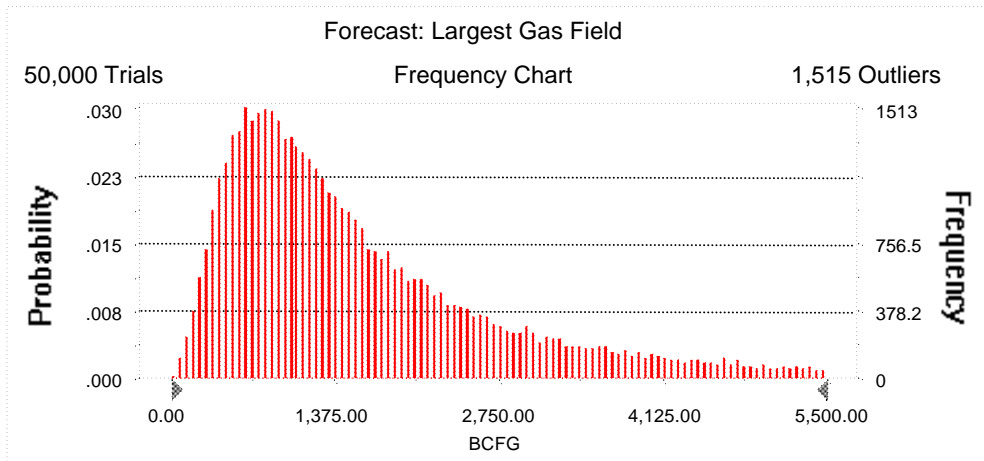
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Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 5,500.00 BCFG
 Entire range is from 35.05 to 7,997.08 BCFG
 After 50,000 trials, the standard error of the mean is 6.20

Statistics:	<u>Value</u>
Trials	50000
Mean	1,714.72
Median	1,282.76
Mode	---
Standard Deviation	1,386.46
Variance	1,922,261.45
Skewness	1.78
Kurtosis	6.42
Coefficient of Variability	0.81
Range Minimum	35.05
Range Maximum	7,997.08
Range Width	7,962.03
Mean Standard Error	6.20



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	35.05
95%	357.41
90%	480.58
85%	582.29
80%	675.48
75%	769.88
70%	861.61
65%	957.21
60%	1,059.66
55%	1,168.04
50%	1,282.76
45%	1,415.16
40%	1,560.17
35%	1,733.59
30%	1,938.97
25%	2,180.83
20%	2,499.97
15%	2,934.69
10%	3,580.38
5%	4,699.44
0%	7,997.08

End of Forecast

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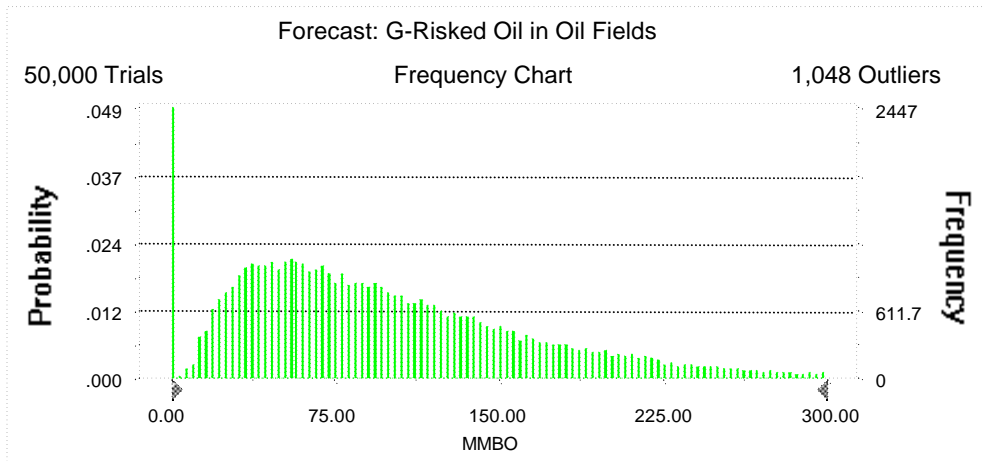
Forecast: G-Riskd Oil in Oil Fields

Summary:

Display range is from 0.00 to 300.00 MMBO
Entire range is from 0.00 to 632.95 MMBO
After 50,000 trials, the standard error of the mean is 0.33

Statistics:

	<u>Value</u>
Trials	50000
Mean	101.43
Median	85.76
Mode	0.00
Standard Deviation	74.43
Variance	5,539.11
Skewness	1.34
Kurtosis	5.76
Coefficient of Variability	0.73
Range Minimum	0.00
Range Maximum	632.95
Range Width	632.95
Mean Standard Error	0.33



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

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	0.00
95%	6.35
90%	24.40
85%	33.19
80%	40.51
75%	47.69
70%	54.91
65%	62.03
60%	69.47
55%	77.38
50%	85.76
45%	94.46
40%	103.79
35%	114.39
30%	125.30
25%	138.39
20%	153.79
15%	173.46
10%	200.18
5%	243.31
0%	632.95

End of Forecast

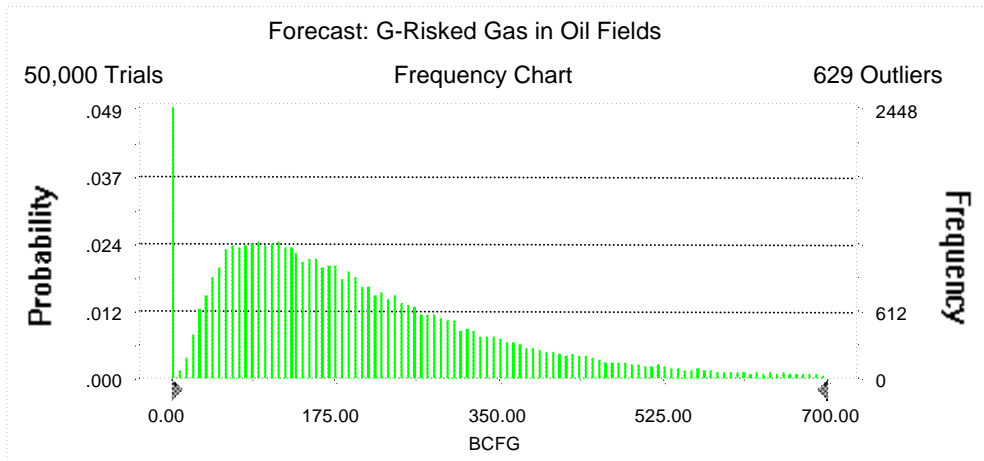
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Forecast: G-Risk Gas in Oil Fields

Summary:

Display range is from 0.00 to 700.00 BCFG
Entire range is from 0.00 to 1,608.87 BCFG
After 50,000 trials, the standard error of the mean is 0.70

Statistics:	Value
Trials	50000
Mean	202.98
Median	166.92
Mode	0.00
Standard Deviation	157.59
Variance	24,833.16
Skewness	1.56
Kurtosis	6.94
Coefficient of Variability	0.78
Range Minimum	0.00
Range Maximum	1,608.87
Range Width	1,608.87
Mean Standard Error	0.70



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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	12.61
90%	45.67
85%	62.26
80%	76.88
75%	91.24
70%	105.43
65%	119.60
60%	134.55
55%	150.54
50%	166.92
45%	184.47
40%	202.94
35%	224.59
30%	248.08
25%	275.75
20%	307.57
15%	349.72
10%	409.42
5%	509.04
0%	1,608.87

End of Forecast

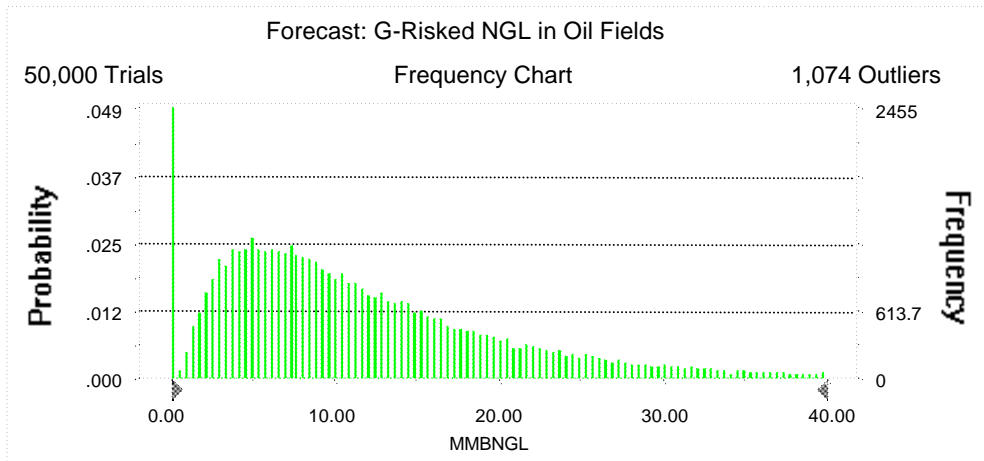
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Forecast: G-Riskd NGL in Oil Fields

Summary:

Display range is from 0.00 to 40.00 MMBNGL
Entire range is from 0.00 to 113.57 MMBNGL
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	<u>Value</u>
Trials	50000
Mean	12.17
Median	9.70
Mode	0.00
Standard Deviation	10.00
Variance	100.00
Skewness	1.79
Kurtosis	8.16
Coefficient of Variability	0.82
Range Minimum	0.00
Range Maximum	113.57
Range Width	113.57
Mean Standard Error	0.04



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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.00
95%	0.69
90%	2.56
85%	3.54
80%	4.40
75%	5.22
70%	6.08
65%	6.94
60%	7.80
55%	8.71
50%	9.70
45%	10.75
40%	11.92
35%	13.22
30%	14.65
25%	16.34
20%	18.44
15%	21.07
10%	24.91
5%	31.70
0%	113.57

End of Forecast

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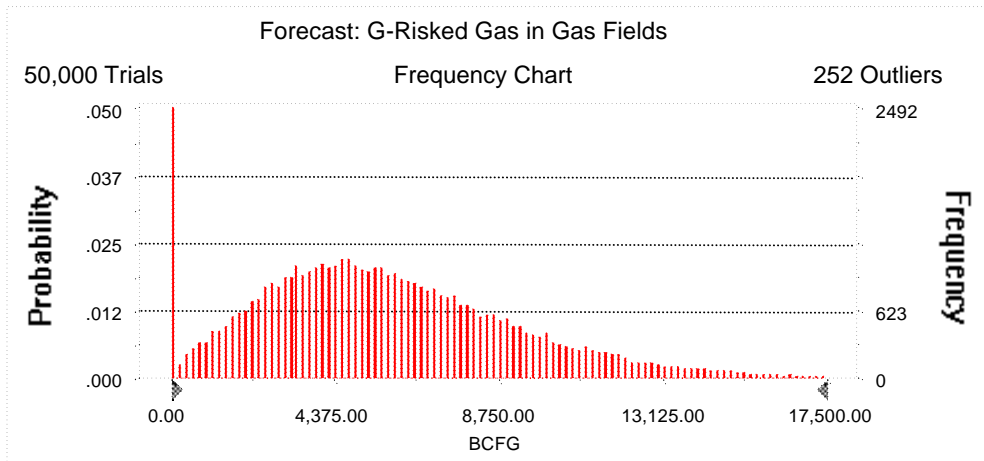
Forecast: G-Risked Gas in Gas Fields

Summary:

Display range is from 0.00 to 17,500.00 BCFG
 Entire range is from 0.00 to 29,152.50 BCFG
 After 50,000 trials, the standard error of the mean is 16.02

Statistics:

	<u>Value</u>
Trials	50000
Mean	5,802.18
Median	5,383.36
Mode	0.00
Standard Deviation	3,582.03
Variance	12,830,928.66
Skewness	0.74
Kurtosis	3.81
Coefficient of Variability	0.62
Range Minimum	0.00
Range Maximum	29,152.50
Range Width	29,152.50
Mean Standard Error	16.02



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

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	195.23
90%	1,510.15
85%	2,231.55
80%	2,776.67
75%	3,264.79
70%	3,704.83
65%	4,135.02
60%	4,549.98
55%	4,948.72
50%	5,383.36
45%	5,807.77
40%	6,271.30
35%	6,767.85
30%	7,308.78
25%	7,894.79
20%	8,596.08
15%	9,422.65
10%	10,561.48
5%	12,372.41
0%	29,152.50

End of Forecast

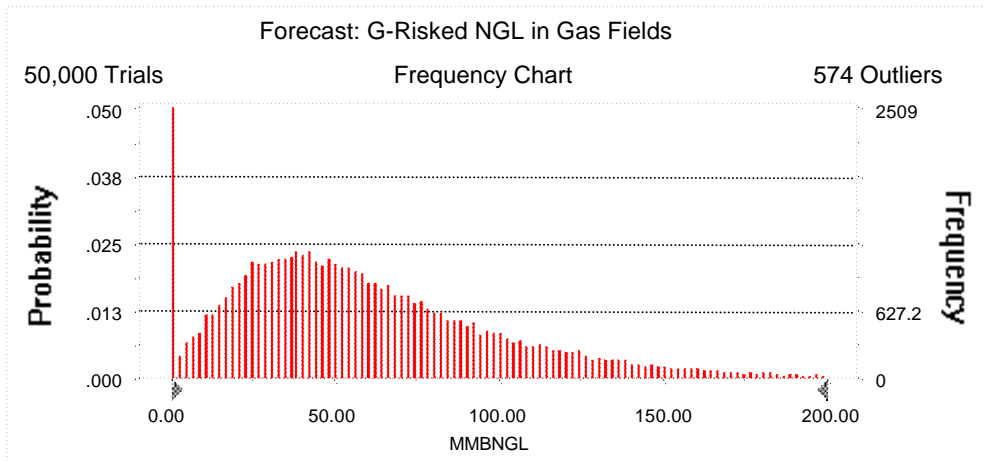
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Forecast: G-Risked NGL in Gas Fields

Summary:

Display range is from 0.00 to 200.00 MMBNGL
Entire range is from 0.00 to 408.26 MMBNGL
After 50,000 trials, the standard error of the mean is 0.20

Statistics:	Value
Trials	50000
Mean	61.22
Median	52.59
Mode	0.00
Standard Deviation	44.16
Variance	1,950.30
Skewness	1.30
Kurtosis	5.68
Coefficient of Variability	0.72
Range Minimum	0.00
Range Maximum	408.26
Range Width	408.26
Mean Standard Error	0.20



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

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.00
95%	1.85
90%	13.81
85%	20.39
80%	25.51
75%	30.15
70%	34.69
65%	39.11
60%	43.37
55%	47.98
50%	52.59
45%	57.47
40%	62.82
35%	68.63
30%	75.21
25%	82.79
20%	92.07
15%	103.43
10%	119.52
5%	145.81
0%	408.26

End of Forecast

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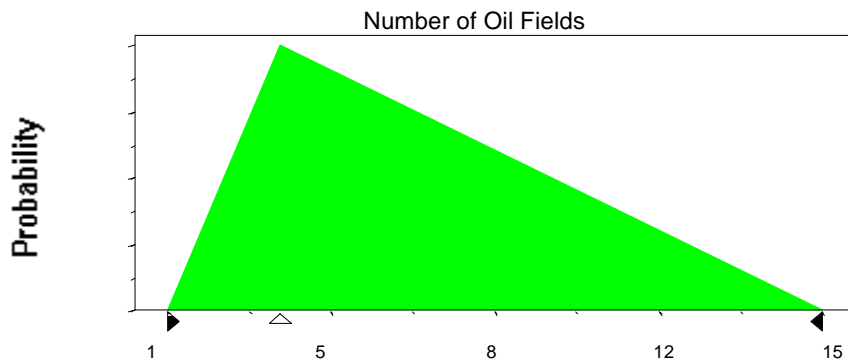
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	3
Maximum	15

Selected range is from 1 to 15
Mean value in simulation was 6



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	11.94
Standard Deviation	25.90

Shifted parameters

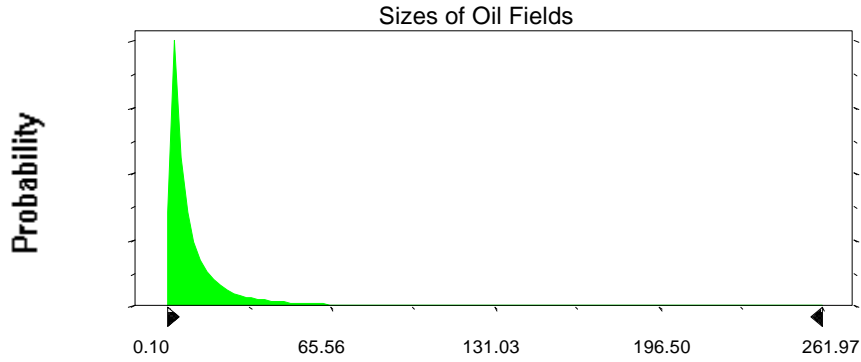
16.94
25.9

Selected range is from 0.00 to 295.00
Mean value in simulation was 11.27

5.00 to 300.00
16.27

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Assumption: Sizes of Oil Fields (cont'd)



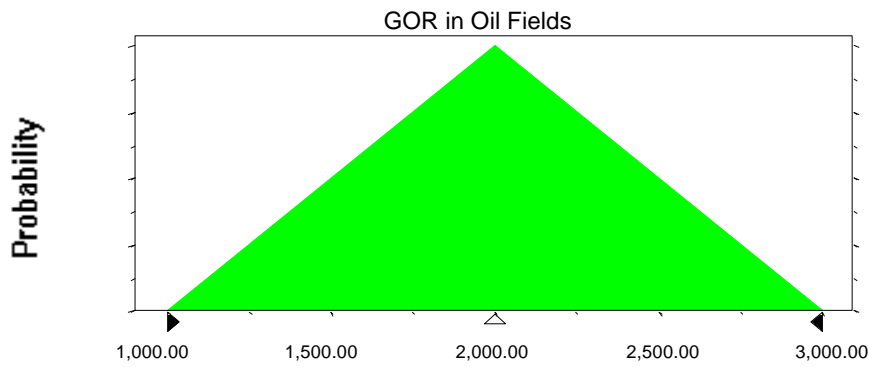
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,000.00
Likeliest	2,000.00
Maximum	3,000.00

Selected range is from 1,000.00 to 3,000.00

Mean value in simulation was 2,000.36



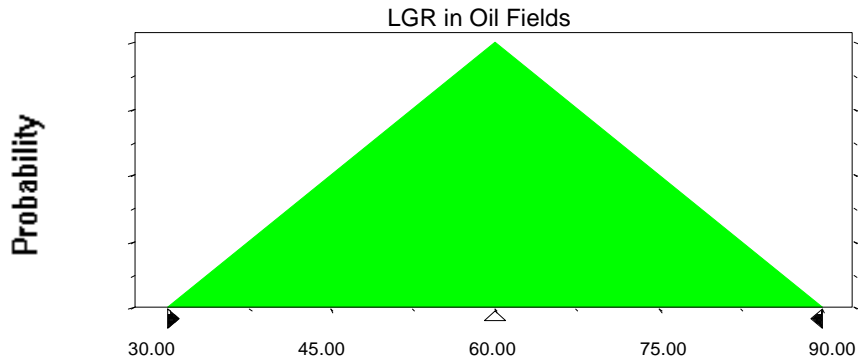
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Assumption: LGR in Oil Fields

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 59.92



Assumption: Number of Gas Fields

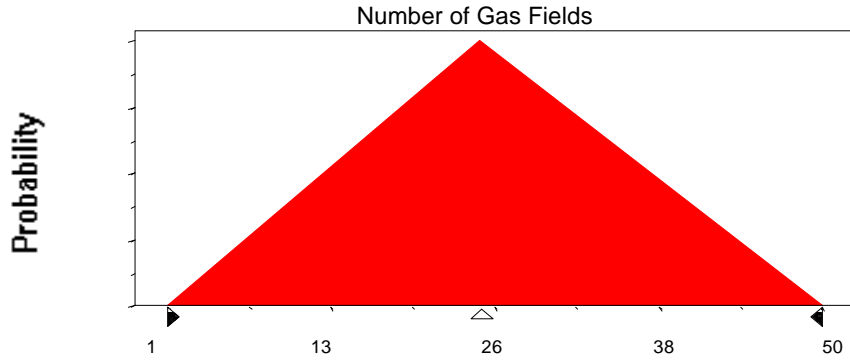
Triangular distribution with parameters:

Minimum	1
Likeliest	24
Maximum	50

Selected range is from 1 to 50
Mean value in simulation was 25

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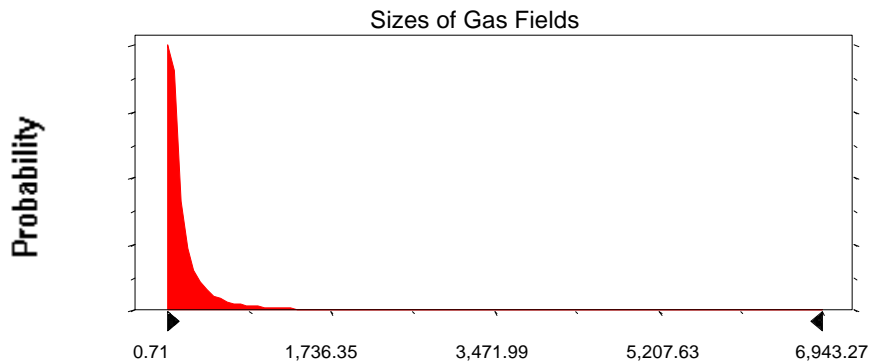
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	226.45	256.45
Standard Deviation	696.70	696.7

Selected range is from 0.00 to 7,970.00	30.00 to 8,000.00
Mean value in simulation was 212.14	242.14



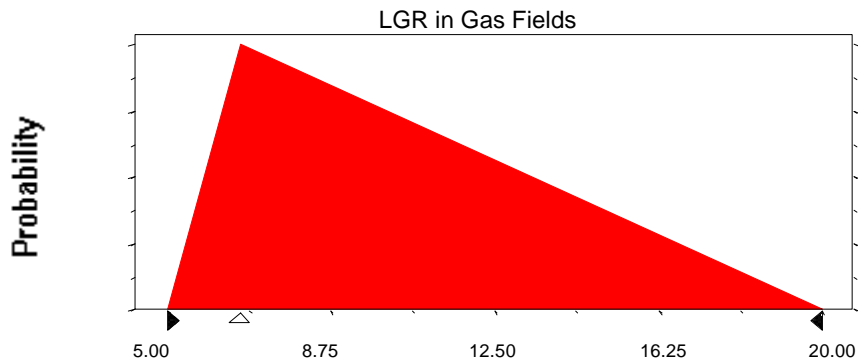
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Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	5.00
Likeliest	6.67
Maximum	20.00

Selected range is from 5.00 to 20.00
Mean value in simulation was 10.55



End of Assumptions

Simulation started on 5/28/99 at 15:23:34
Simulation stopped on 5/28/99 at 15:45:58