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Foreland Slope, Assessment Unit 11080102
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	2	1.00	11	39	115	48	13	46	143	57	1	3	9	3	5	16	70	23
Gas Fields	12						2,729	6,501	11,980	6,837	24	64	148	72	359	910	2,324	1,061
Total		1.00	11	39	115	48	2,741	6,546	12,123	6,894	25	67	157	76				

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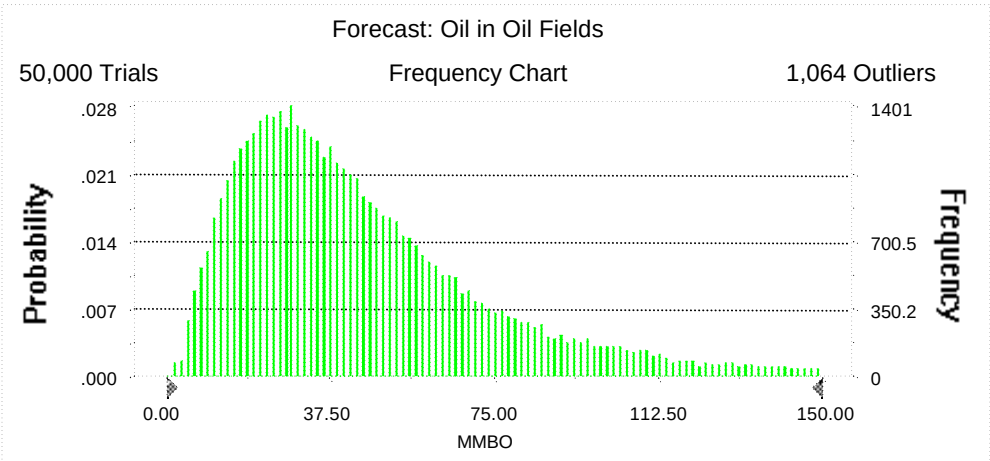
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 150.00 MMBO
Entire range is from 2.11 to 344.41 MMBO
After 50,000 trials, the standard error of the mean is 0.16

Statistics:	Value
Trials	50000
Mean	47.75
Median	38.84
Mode	---
Standard Deviation	34.93
Variance	1,220.29
Skewness	1.99
Kurtosis	8.85
Coefficient of Variability	0.73
Range Minimum	2.11
Range Maximum	344.41
Range Width	342.30
Mean Standard Error	0.16



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Foreland Slope
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	2.11
95%	11.28
90%	15.16
85%	18.39
80%	21.36
75%	24.22
70%	26.93
65%	29.72
60%	32.63
55%	35.64
50%	38.84
45%	42.25
40%	45.98
35%	50.22
30%	54.88
25%	60.41
20%	67.33
15%	76.91
10%	90.87
5%	115.48
0%	344.41

End of Forecast

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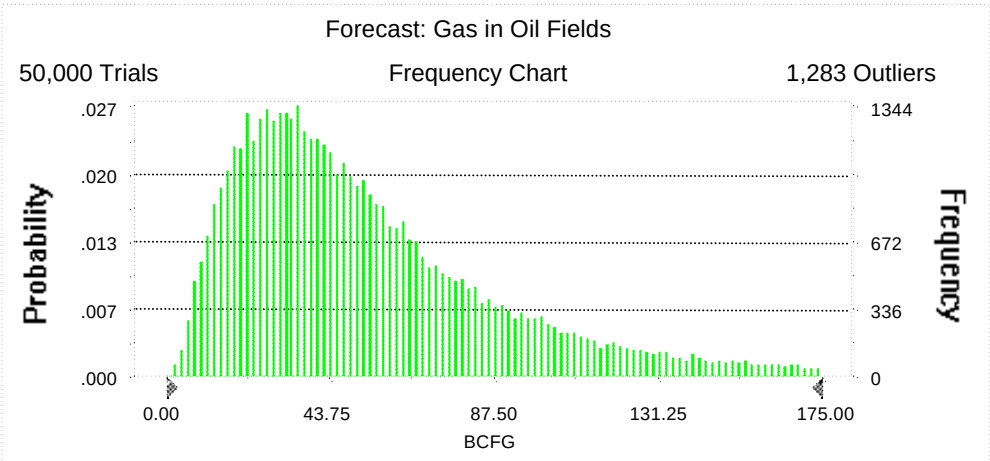
Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 175.00 BCFG
Entire range is from 1.62 to 455.77 BCFG
After 50,000 trials, the standard error of the mean is 0.20

Statistics:	Value
Trials	50000
Mean	57.42
Median	45.89
Mode	---
Standard Deviation	43.71
Variance	1,910.98
Skewness	2.09
Kurtosis	9.63
Coefficient of Variability	0.76
Range Minimum	1.62
Range Maximum	455.77
Range Width	454.15
Mean Standard Error	0.20



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	1.62
95%	12.83
90%	17.39
85%	21.21
80%	24.76
75%	28.11
70%	31.52
65%	34.89
60%	38.29
55%	42.00
50%	45.89
45%	50.13
40%	54.64
35%	59.78
30%	65.69
25%	72.89
20%	81.92
15%	93.75
10%	110.44
5%	142.79
0%	455.77

End of Forecast

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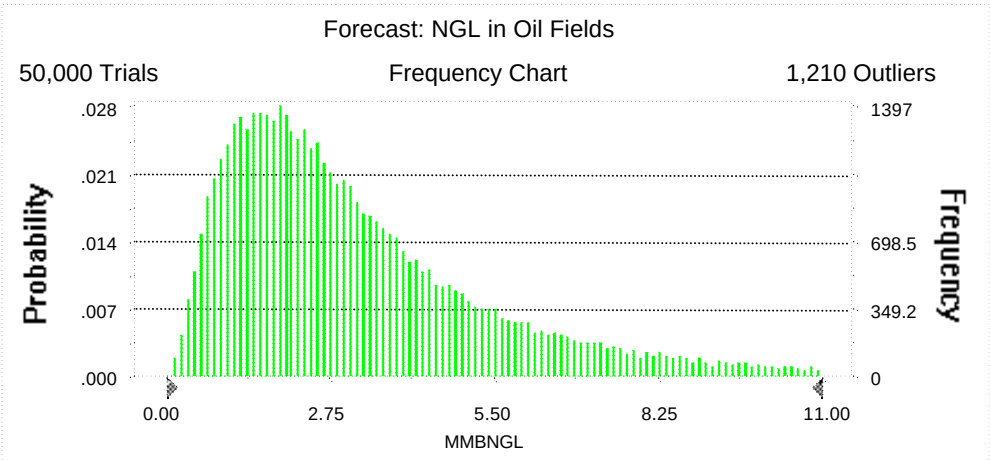
Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 11.00 MMBNGL
Entire range is from 0.08 to 37.25 MMBNGL
After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	3.44
Median	2.68
Mode	---
Standard Deviation	2.77
Variance	7.68
Skewness	2.36
Kurtosis	12.20
Coefficient of Variability	0.81
Range Minimum	0.08
Range Maximum	37.25
Range Width	37.17
Mean Standard Error	0.01



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.08
95%	0.72
90%	0.98
85%	1.20
80%	1.41
75%	1.61
70%	1.82
65%	2.02
60%	2.23
55%	2.45
50%	2.68
45%	2.95
40%	3.23
35%	3.55
30%	3.91
25%	4.36
20%	4.92
15%	5.67
10%	6.77
5%	8.72
0%	37.25

End of Forecast

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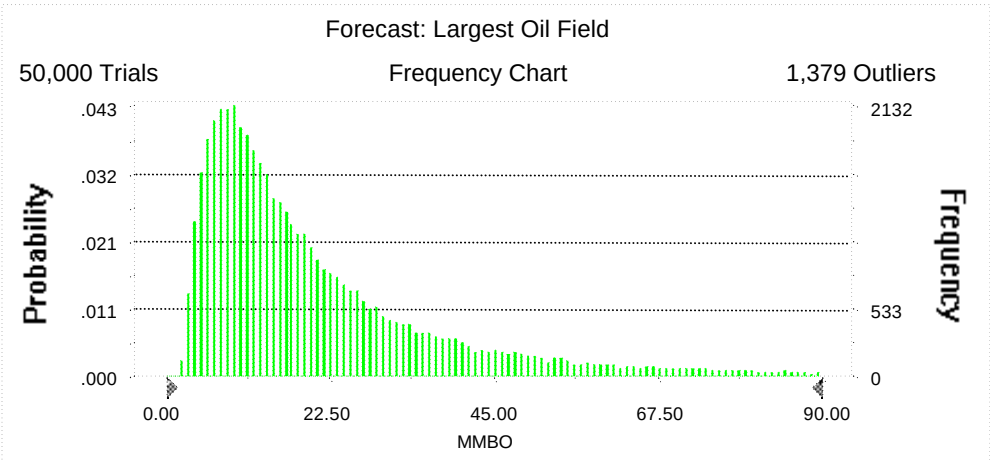
Foreland Slope
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 90.00 MMBO
Entire range is from 2.11 to 199.84 MMBO
After 50,000 trials, the standard error of the mean is 0.11

Statistics:	Value
Trials	50000
Mean	23.49
Median	15.82
Mode	---
Standard Deviation	23.71
Variance	562.36
Skewness	2.91
Kurtosis	14.37
Coefficient of Variability	1.01
Range Minimum	2.11
Range Maximum	199.84
Range Width	197.74
Mean Standard Error	0.11



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Monte Carlo Results

Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	2.11
95%	4.79
90%	6.06
85%	7.19
80%	8.26
75%	9.30
70%	10.43
65%	11.58
60%	12.86
55%	14.22
50%	15.82
45%	17.55
40%	19.50
35%	21.81
30%	24.61
25%	28.05
20%	32.69
15%	39.08
10%	49.20
5%	69.66
0%	199.84

End of Forecast

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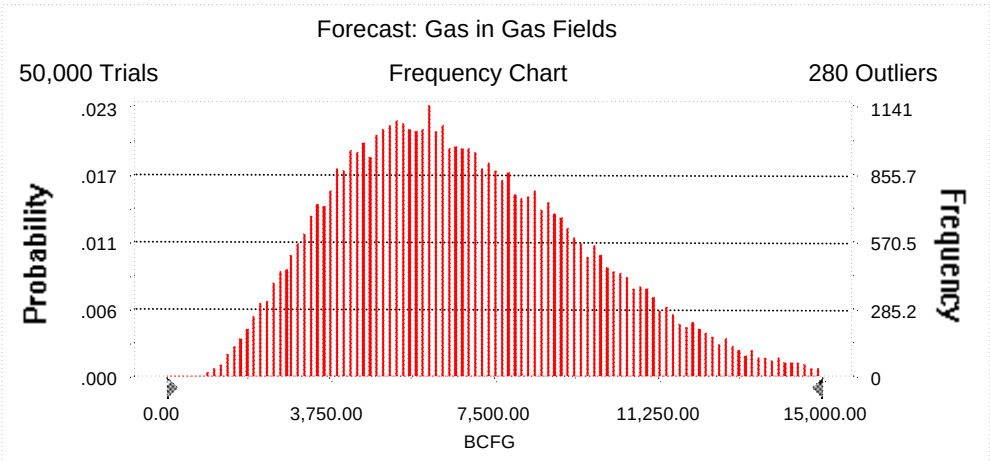
Foreland Slope
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 15,000.00 BCFG
Entire range is from 624.14 to 22,004.93 BCFG
After 50,000 trials, the standard error of the mean is 12.67

Statistics:	Value
Trials	50000
Mean	6,836.53
Median	6,500.58
Mode	---
Standard Deviation	2,834.03
Variance	8,031,711.30
Skewness	0.55
Kurtosis	3.06
Coefficient of Variability	0.41
Range Minimum	624.14
Range Maximum	22,004.93
Range Width	21,380.79
Mean Standard Error	12.67



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Foreland Slope
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	624.14
95%	2,728.52
90%	3,399.06
85%	3,906.61
80%	4,317.10
75%	4,713.53
70%	5,086.52
65%	5,435.21
60%	5,789.76
55%	6,140.57
50%	6,500.58
45%	6,888.39
40%	7,289.95
35%	7,717.73
30%	8,171.65
25%	8,679.22
20%	9,222.85
15%	9,893.85
10%	10,723.34
5%	11,979.82
0%	22,004.93

End of Forecast

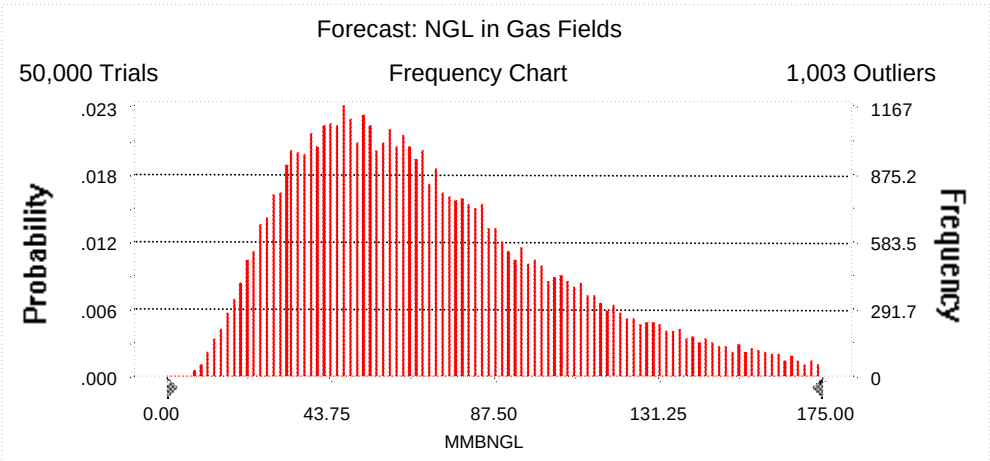
11080102
Foreland Slope
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 175.00 MMBNGL
Entire range is from 4.57 to 307.96 MMBNGL
After 50,000 trials, the standard error of the mean is 0.17

Statistics:	Value
Trials	50000
Mean	72.19
Median	64.25
Mode	---
Standard Deviation	38.96
Variance	1,518.27
Skewness	1.17
Kurtosis	4.80
Coefficient of Variability	0.54
Range Minimum	4.57
Range Maximum	307.96
Range Width	303.39
Mean Standard Error	0.17



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Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	4.57
95%	24.13
90%	30.26
85%	35.10
80%	39.49
75%	43.74
70%	47.75
65%	51.66
60%	55.68
55%	59.99
50%	64.25
45%	68.75
40%	73.65
35%	79.28
30%	85.13
25%	92.26
20%	100.72
15%	111.22
10%	125.31
5%	147.90
0%	307.96

End of Forecast

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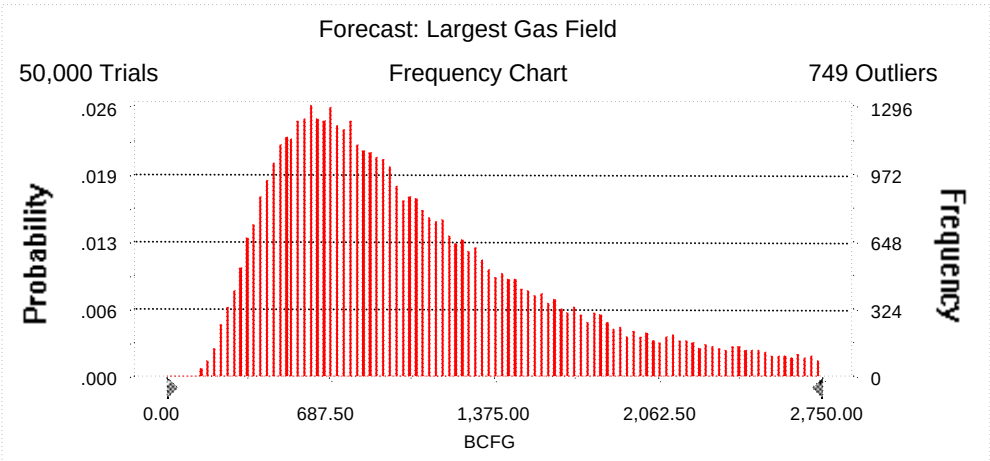
Foreland Slope
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 2,750.00 BCFG
Entire range is from 87.70 to 2,999.68 BCFG
After 50,000 trials, the standard error of the mean is 2.66

Statistics:	Value
Trials	50000
Mean	1,060.54
Median	910.08
Mode	---
Standard Deviation	593.84
Variance	352,651.37
Skewness	1.07
Kurtosis	3.66
Coefficient of Variability	0.56
Range Minimum	87.70
Range Maximum	2,999.68
Range Width	2,911.98
Mean Standard Error	2.66



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Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	87.70
95%	359.08
90%	439.62
85%	503.67
80%	563.43
75%	618.39
70%	673.21
65%	727.24
60%	784.55
55%	845.53
50%	910.08
45%	978.81
40%	1,058.12
35%	1,146.08
30%	1,246.19
25%	1,361.00
20%	1,505.43
15%	1,689.38
10%	1,939.15
5%	2,324.39
0%	2,999.68

End of Forecast

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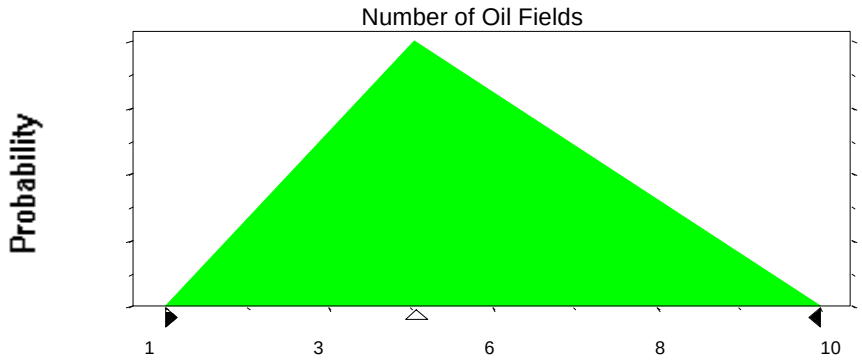
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	4
Maximum	10

Selected range is from 1 to 10
Mean value in simulation was 5



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	7.52	9.52
Standard Deviation	17.29	17.29
Selected range is from	0.00 to 198.00	2.00 to 200.00
Mean value in simulation was	7.26	9.26

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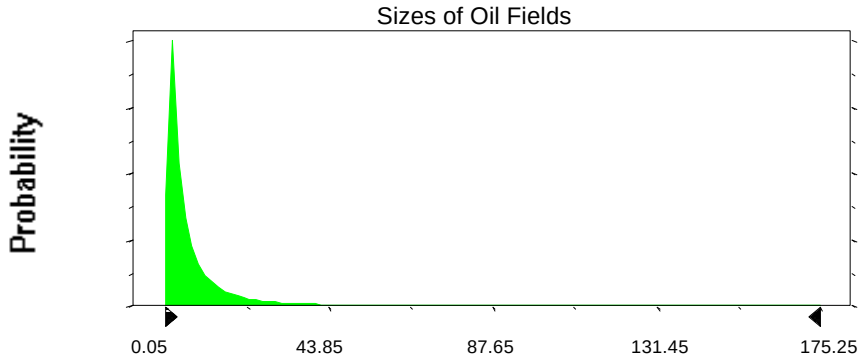
Assumption: Sizes of Oil Fields (cont'd)

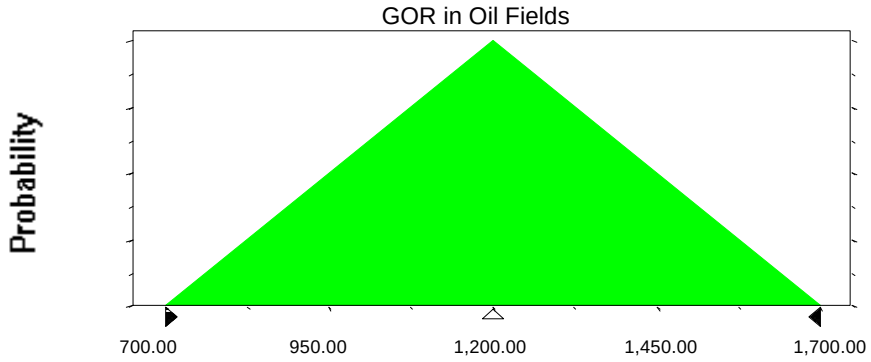


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	700.00
Likeliest	1,200.00
Maximum	1,700.00

Selected range is from 700.00 to 1,700.00
Mean value in simulation was 1,201.53



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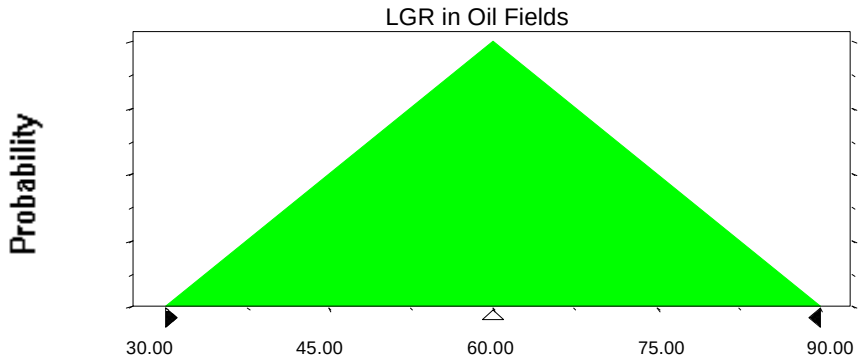
Assumption: LGR in Oil Fields

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 59.95



Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	15
Likeliest	51
Maximum	120

Selected range is from 15 to 120
Mean value in simulation was 62

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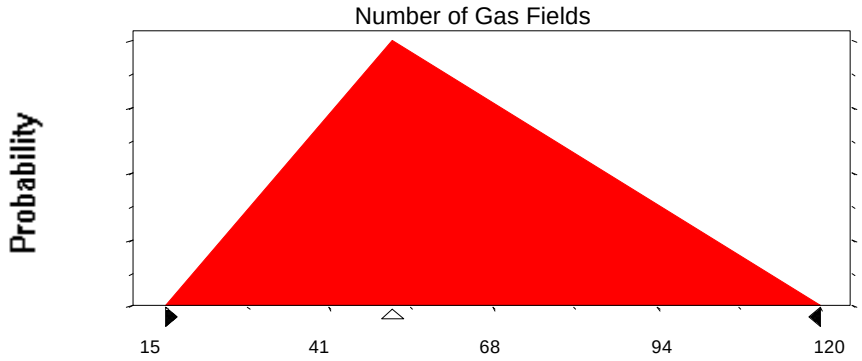
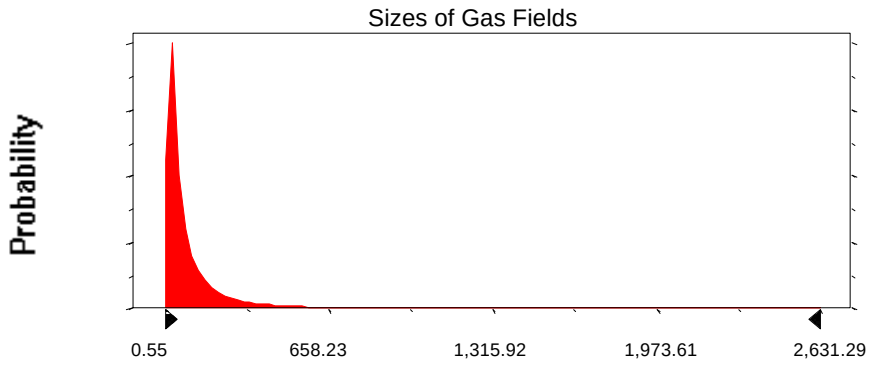
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	103.05	115.05
Standard Deviation	259.77	259.77
Selected range is from 0.00 to 2,988.00		12.00 to 3,000.00
Mean value in simulation was 97.84		109.84



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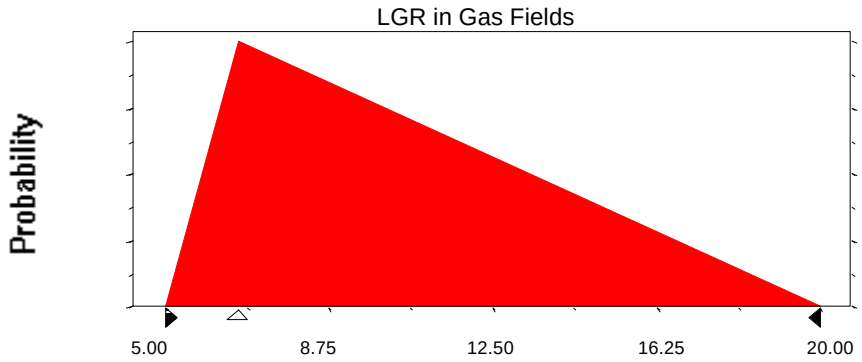
Assumption: LGR in Gas Fields

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 10.56



End of Assumptions

Simulation started on 1/31/00 at 13:45:47
Simulation stopped on 1/31/00 at 14:17:59