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Central, Assessment Unit 60960101
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	273	1,113	3,032	1,312	250	1,101	3,458	1,384	14	64	215	83	64	295	1,281	426
Gas Fields	6						100	596	2,195	796	4	26	100	36	62	298	1,361	449
Total		1.00	273	1,113	3,032	1,312	351	1,698	5,653	2,180	18	91	315	119				

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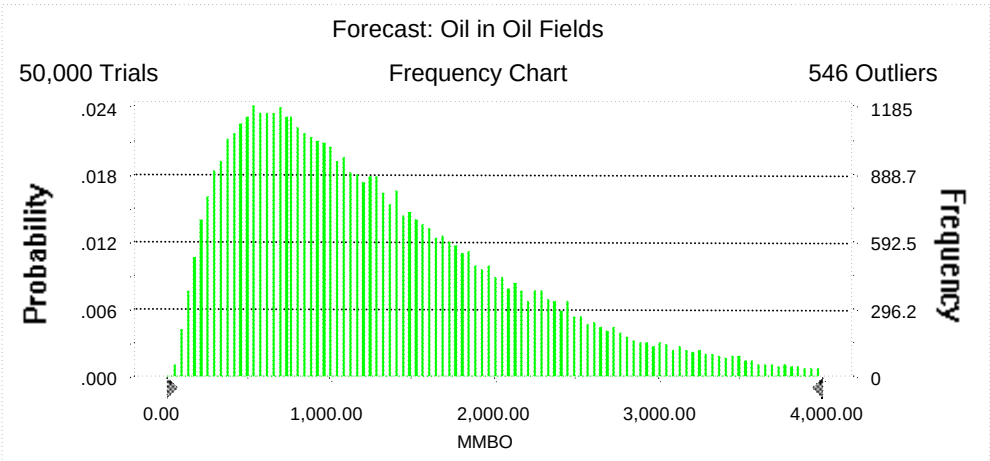
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 4,000.00 MMBO
Entire range is from 34.36 to 7,594.37 MMBO
After 50,000 trials, the standard error of the mean is 3.93

Statistics:	Value
Trials	50000
Mean	1,312.25
Median	1,112.64
Mode	---
Standard Deviation	879.36
Variance	773,275.49
Skewness	1.21
Kurtosis	4.85
Coefficient of Variability	0.67
Range Minimum	34.36
Range Maximum	7,594.37
Range Width	7,560.02
Mean Standard Error	3.93



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Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	34.36
95%	272.71
90%	378.96
85%	471.57
80%	558.53
75%	644.85
70%	731.09
65%	818.50
60%	912.96
55%	1,009.95
50%	1,112.64
45%	1,225.67
40%	1,340.91
35%	1,469.56
30%	1,614.75
25%	1,780.26
20%	1,973.09
15%	2,215.14
10%	2,514.80
5%	3,031.93
0%	7,594.37

End of Forecast

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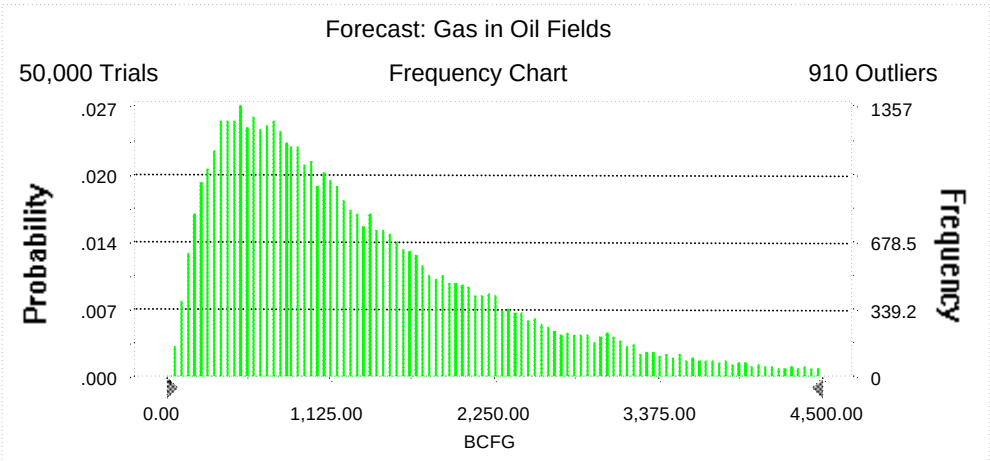
Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 4,500.00 BCFG
Entire range is from 19.12 to 10,734.97 BCFG
After 50,000 trials, the standard error of the mean is 4.76

Statistics:	Value
Trials	50000
Mean	1,383.59
Median	1,101.44
Mode	---
Standard Deviation	1,063.88
Variance	1,131,848.24
Skewness	1.70
Kurtosis	7.30
Coefficient of Variability	0.77
Range Minimum	19.12
Range Maximum	10,734.97
Range Width	10,715.84
Mean Standard Error	4.76



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	19.12
95%	250.49
90%	355.09
85%	442.64
80%	528.47
75%	616.01
70%	705.60
65%	795.24
60%	891.03
55%	992.13
50%	1,101.44
45%	1,217.01
40%	1,349.74
35%	1,495.20
30%	1,657.37
25%	1,853.01
20%	2,088.63
15%	2,375.72
10%	2,792.19
5%	3,458.14
0%	10,734.97

End of Forecast

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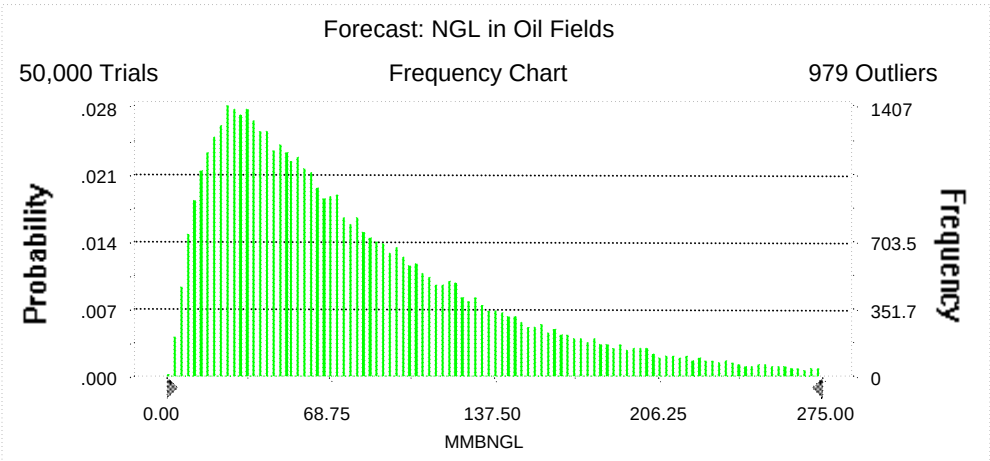
Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 275.00 MMBNGL
Entire range is from 1.07 to 793.29 MMBNGL
After 50,000 trials, the standard error of the mean is 0.30

Statistics:	Value
Trials	50000
Mean	83.11
Median	64.43
Mode	---
Standard Deviation	67.32
Variance	4,532.13
Skewness	1.92
Kurtosis	8.98
Coefficient of Variability	0.81
Range Minimum	1.07
Range Maximum	793.29
Range Width	792.21
Mean Standard Error	0.30



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	1.07
95%	14.13
90%	20.15
85%	25.42
80%	30.36
75%	35.33
70%	40.56
65%	46.08
60%	51.88
55%	57.95
50%	64.43
45%	71.75
40%	79.81
35%	88.83
30%	98.96
25%	110.94
20%	125.26
15%	143.68
10%	170.11
5%	214.58
0%	793.29

End of Forecast

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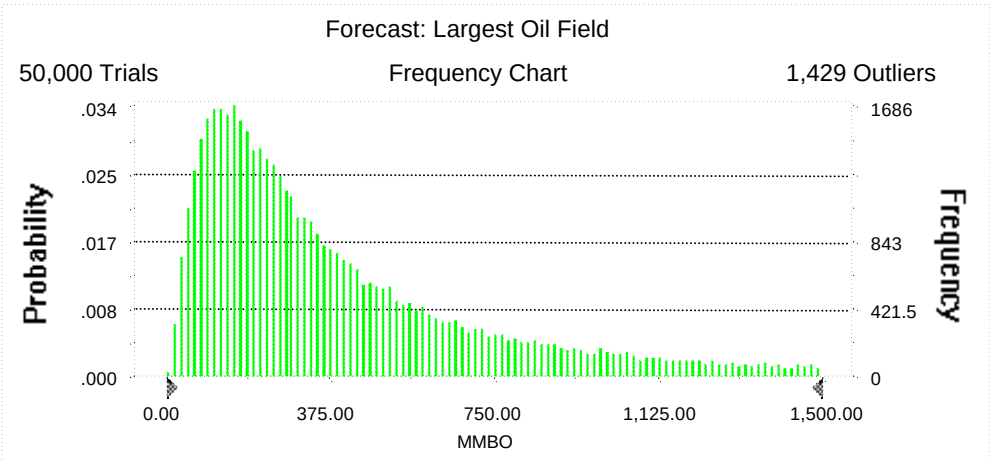
Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 1,500.00 MMBO
Entire range is from 5.67 to 1,999.93 MMBO
After 50,000 trials, the standard error of the mean is 1.71

Statistics:	Value
Trials	50000
Mean	425.67
Median	294.97
Mode	---
Standard Deviation	383.42
Variance	147,011.81
Skewness	1.70
Kurtosis	5.76
Coefficient of Variability	0.90
Range Minimum	5.67
Range Maximum	1,999.93
Range Width	1,994.26
Mean Standard Error	1.71



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Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	5.67
95%	64.32
90%	90.74
85%	113.89
80%	136.08
75%	158.68
70%	182.03
65%	207.26
60%	234.43
55%	262.86
50%	294.97
45%	332.44
40%	374.46
35%	423.54
30%	483.20
25%	556.85
20%	651.15
15%	779.12
10%	966.03
5%	1,281.41
0%	1,999.93

End of Forecast

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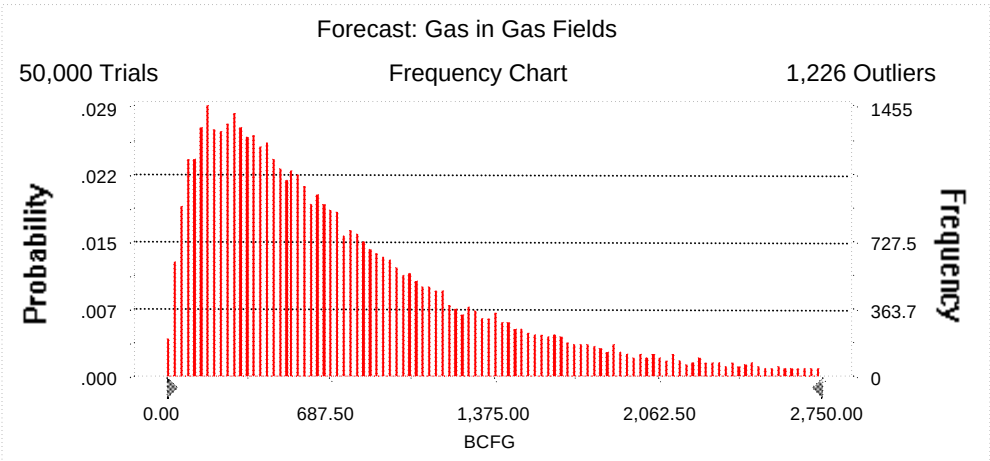
Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 2,750.00 BCFG
Entire range is from 7.47 to 8,233.67 BCFG
After 50,000 trials, the standard error of the mean is 3.17

Statistics:	Value
Trials	50000
Mean	796.44
Median	596.27
Mode	---
Standard Deviation	709.07
Variance	502,786.39
Skewness	2.07
Kurtosis	9.37
Coefficient of Variability	0.89
Range Minimum	7.47
Range Maximum	8,233.67
Range Width	8,226.20
Mean Standard Error	3.17



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	7.47
95%	100.14
90%	156.74
85%	204.73
80%	256.09
75%	305.78
70%	358.10
65%	412.57
60%	469.21
55%	532.00
50%	596.27
45%	667.56
40%	743.99
35%	833.83
30%	935.31
25%	1,054.71
20%	1,201.93
15%	1,400.53
10%	1,679.60
5%	2,195.14
0%	8,233.67

End of Forecast

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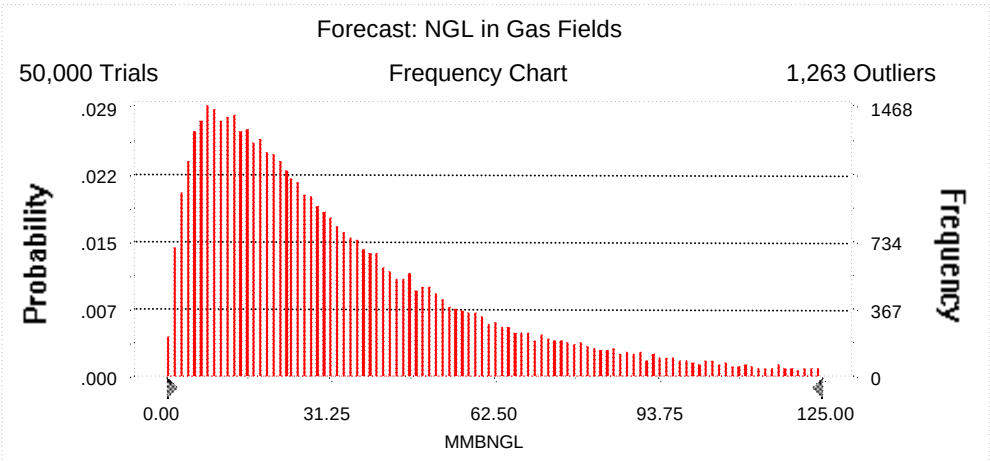
Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 125.00 MMBNGL
Entire range is from 0.26 to 435.62 MMBNGL
After 50,000 trials, the standard error of the mean is 0.15

Statistics:	Value
Trials	50000
Mean	35.79
Median	26.19
Mode	---
Standard Deviation	33.04
Variance	1,091.94
Skewness	2.24
Kurtosis	10.84
Coefficient of Variability	0.92
Range Minimum	0.26
Range Maximum	435.62
Range Width	435.36
Mean Standard Error	0.15



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.26
95%	4.36
90%	6.77
85%	8.93
80%	11.11
75%	13.34
70%	15.64
65%	18.02
60%	20.58
55%	23.26
50%	26.19
45%	29.42
40%	32.91
35%	36.95
30%	41.60
25%	47.25
20%	54.01
15%	63.14
10%	76.68
5%	100.30
0%	435.62

End of Forecast

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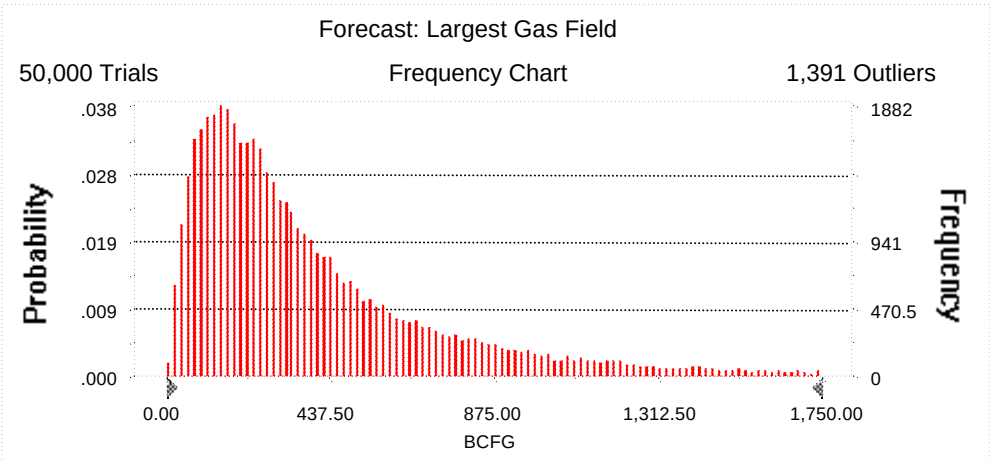
Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 1,750.00 BCFG
Entire range is from 7.47 to 3,998.76 BCFG
After 50,000 trials, the standard error of the mean is 2.12

Statistics:	Value
Trials	50000
Mean	448.72
Median	297.68
Mode	---
Standard Deviation	475.14
Variance	225,754.26
Skewness	2.85
Kurtosis	14.15
Coefficient of Variability	1.06
Range Minimum	7.47
Range Maximum	3,998.76
Range Width	3,991.29
Mean Standard Error	2.12



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Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	7.47
95%	61.55
90%	88.93
85%	114.17
80%	138.04
75%	161.46
70%	185.71
65%	211.60
60%	238.83
55%	265.72
50%	297.68
45%	333.58
40%	374.01
35%	421.27
30%	477.60
25%	549.61
20%	645.76
15%	774.45
10%	966.49
5%	1,360.55
0%	3,998.76

End of Forecast

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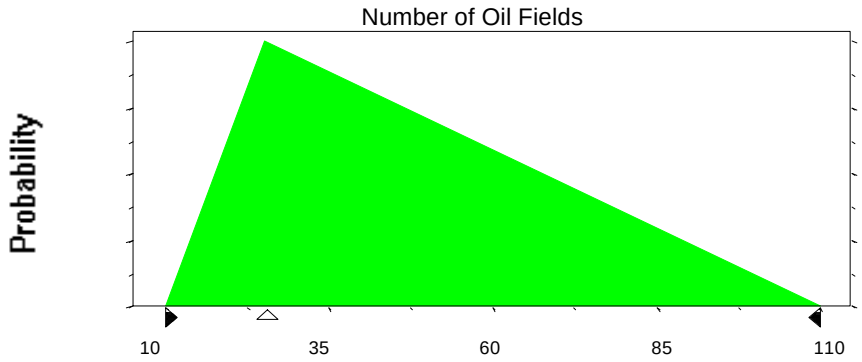
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	26
Maximum	110

Selected range is from 10 to 110
Mean value in simulation was 49



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	30.22	31.22
Standard Deviation	226.27	226.27
Selected range is from	0.00 to 1,999.00	1.00 to 2,000.00
Mean value in simulation was	25.48	26.48

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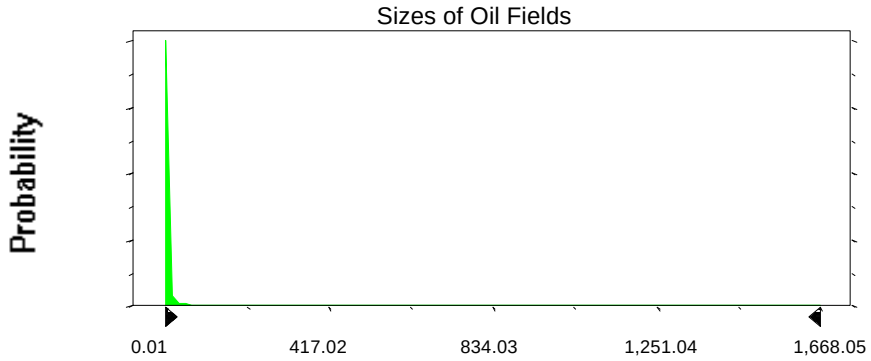
Assumption: Sizes of Oil Fields (cont'd)

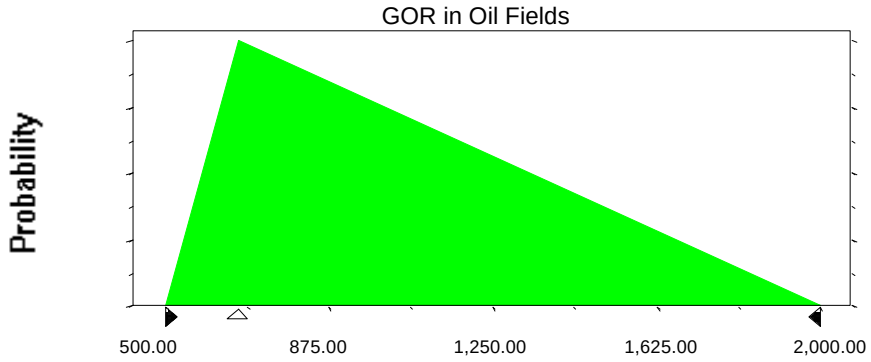


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	500.00
Likeliest	666.67
Maximum	2,000.00

Selected range is from 500.00 to 2,000.00
Mean value in simulation was 1,054.66



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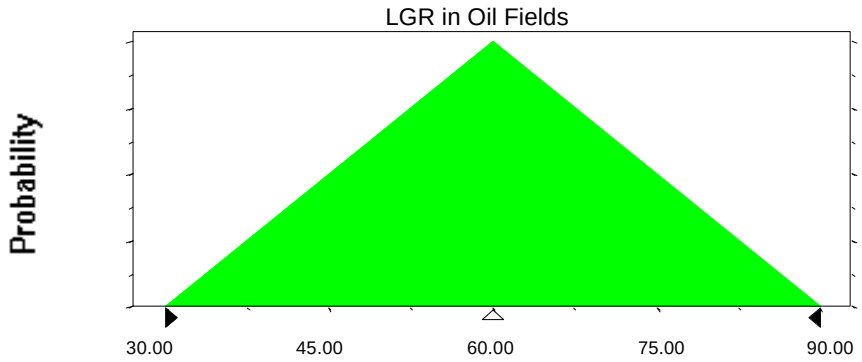
Assumption: LGR in Oil Fields

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 60.06



Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	10

Selected range is from 1 to 10
Mean value in simulation was 4

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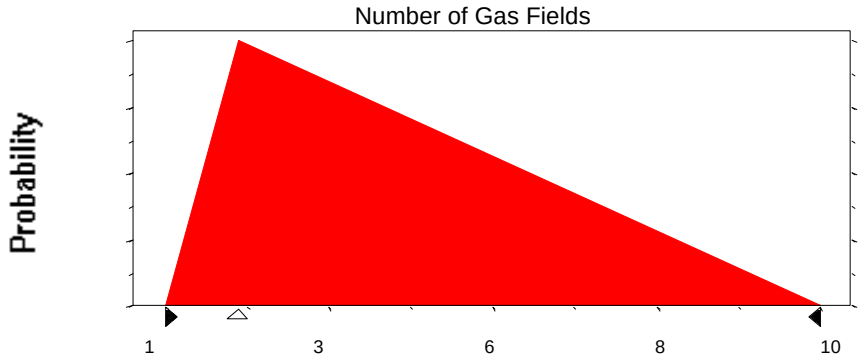
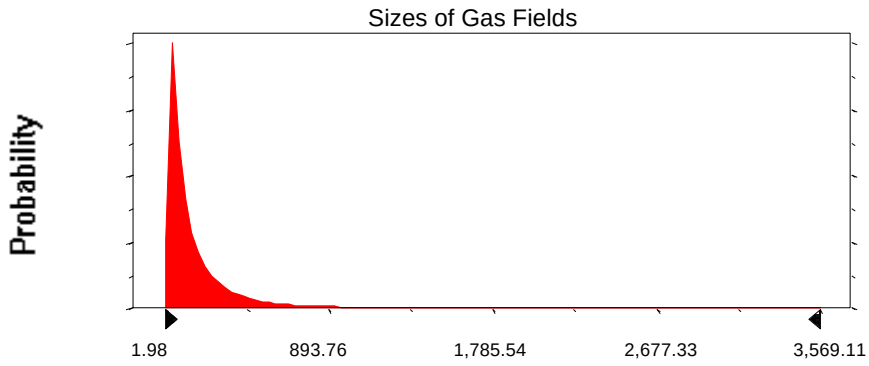
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	183.42	189.42
Standard Deviation	356.02	356.02
Selected range is from 0.00 to 3,994.00		6.00 to 4,000.00
Mean value in simulation was 180.77		186.77



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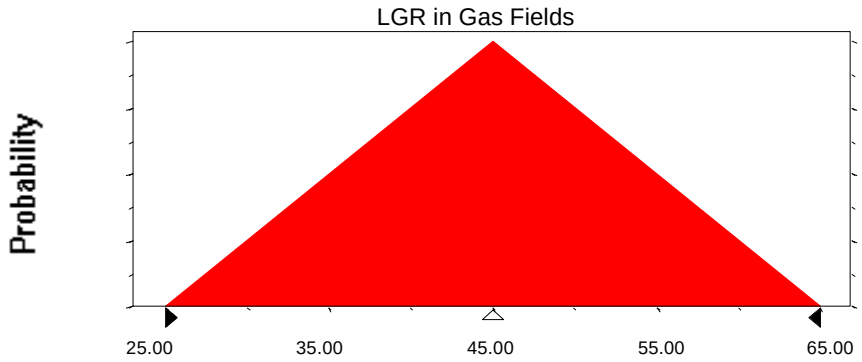
Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	25.00
Likeliest	45.00
Maximum	65.00

Selected range is from 25.00 to 65.00
Mean value in simulation was 44.96



End of Assumptions

Simulation started on 7/13/99 at 16:31:13
Simulation stopped on 7/13/99 at 17:01:26