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Romania Flysch Zone, Assessment Unit 40610201
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	230	529	1,001	564	208	518	1,076	565	6	15	34	17	23	45	84	48
Gas Fields	6						391	1,454	3,352	1,612	15	56	142	64	73	158	317	171
Total		1.00	230	529	1,001	564	599	1,973	4,428	2,177	20	71	176	81				

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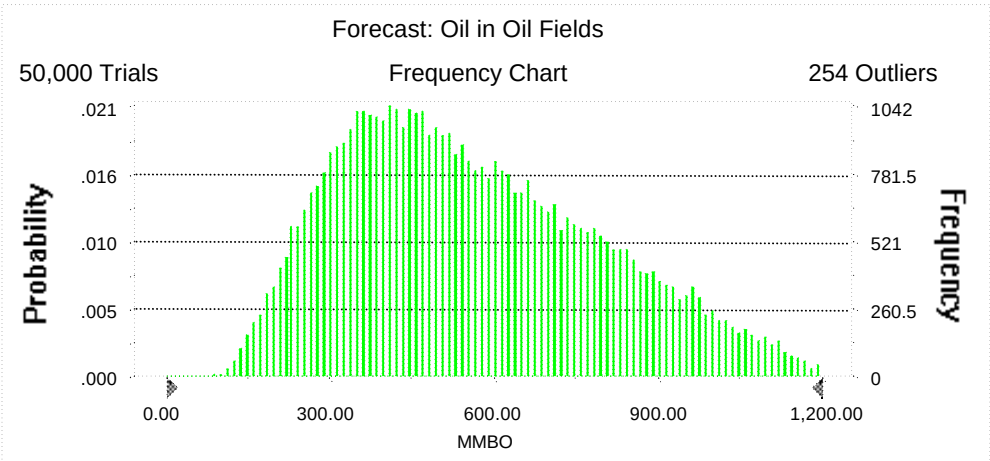
Romania Flysch Zone
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,200.00 MMBO
Entire range is from 86.64 to 1,484.66 MMBO
After 50,000 trials, the standard error of the mean is 1.07

Statistics:	Value
Trials	50000
Mean	563.91
Median	528.54
Mode	---
Standard Deviation	238.31
Variance	56,790.60
Skewness	0.51
Kurtosis	2.62
Coefficient of Variability	0.42
Range Minimum	86.64
Range Maximum	1,484.66
Range Width	1,398.02
Mean Standard Error	1.07



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Romania Flysch Zone
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	86.64
95%	229.80
90%	277.59
85%	314.82
80%	347.53
75%	377.13
70%	407.12
65%	436.05
60%	466.00
55%	496.43
50%	528.54
45%	563.18
40%	601.21
35%	638.63
30%	680.70
25%	727.88
20%	778.88
15%	835.91
10%	905.40
5%	1,001.02
0%	1,484.66

End of Forecast

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Romania Flysch Zone
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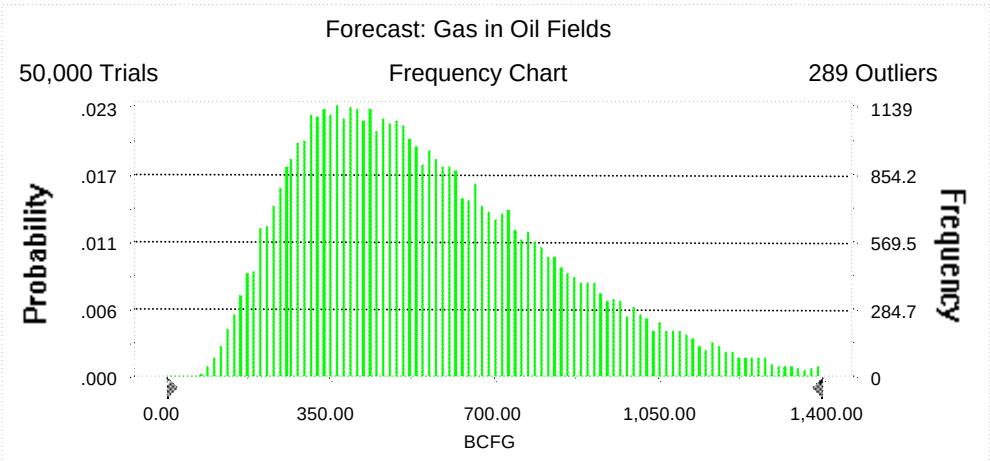
Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 1,400.00 BCFG
Entire range is from 66.18 to 1,966.80 BCFG
After 50,000 trials, the standard error of the mean is 1.21

Statistics:	Value
Trials	50000
Mean	565.06
Median	518.46
Mode	---
Standard Deviation	269.48
Variance	72,620.74
Skewness	0.80
Kurtosis	3.45
Coefficient of Variability	0.48
Range Minimum	66.18
Range Maximum	1,966.80
Range Width	1,900.63
Mean Standard Error	1.21



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Romania Flysch Zone
Monte Carlo Results

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	66.18
95%	208.07
90%	256.31
85%	293.50
80%	327.05
75%	358.57
70%	389.87
65%	420.93
60%	452.72
55%	486.02
50%	518.46
45%	554.92
40%	592.53
35%	632.60
30%	678.59
25%	729.55
20%	785.90
15%	853.89
10%	942.28
5%	1,075.96
0%	1,966.80

End of Forecast

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Romania Flysch Zone
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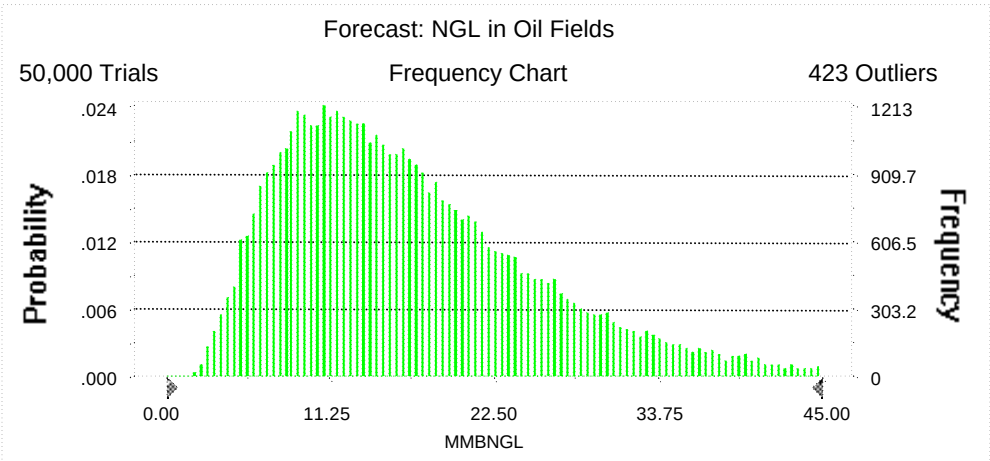
Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 45.00 MMBNGL
Entire range is from 1.73 to 71.91 MMBNGL
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	Value
Trials	50000
Mean	16.94
Median	15.18
Mode	---
Standard Deviation	8.96
Variance	80.22
Skewness	1.07
Kurtosis	4.38
Coefficient of Variability	0.53
Range Minimum	1.73
Range Maximum	71.91
Range Width	70.18
Mean Standard Error	0.04



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Monte Carlo Results

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	1.73
95%	5.72
90%	7.10
85%	8.26
80%	9.26
75%	10.25
70%	11.20
65%	12.16
60%	13.13
55%	14.14
50%	15.18
45%	16.32
40%	17.47
35%	18.74
30%	20.19
25%	21.78
20%	23.75
15%	26.12
10%	29.23
5%	34.21
0%	71.91

End of Forecast

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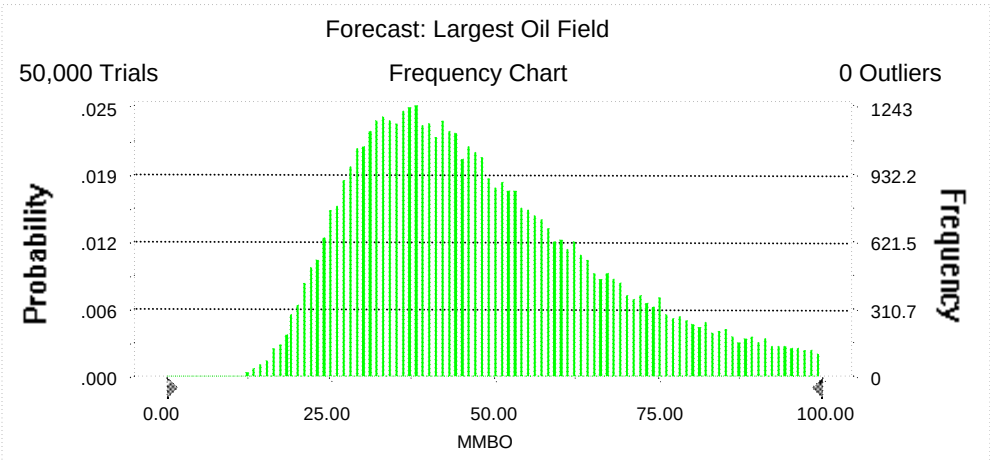
Romania Flysch Zone
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 100.00 MMBO
Entire range is from 8.95 to 99.98 MMBO
After 50,000 trials, the standard error of the mean is 0.08

Statistics:	Value
Trials	50000
Mean	47.94
Median	44.74
Mode	---
Standard Deviation	18.21
Variance	331.45
Skewness	0.68
Kurtosis	2.89
Coefficient of Variability	0.38
Range Minimum	8.95
Range Maximum	99.98
Range Width	91.03
Mean Standard Error	0.08



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Romania Flysch Zone
Monte Carlo Results

Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	8.95
95%	23.48
90%	27.04
85%	29.64
80%	31.94
75%	34.06
70%	36.19
65%	38.20
60%	40.32
55%	42.51
50%	44.74
45%	47.14
40%	49.62
35%	52.50
30%	55.56
25%	59.01
20%	63.08
15%	68.09
10%	74.60
5%	84.06
0%	99.98

End of Forecast

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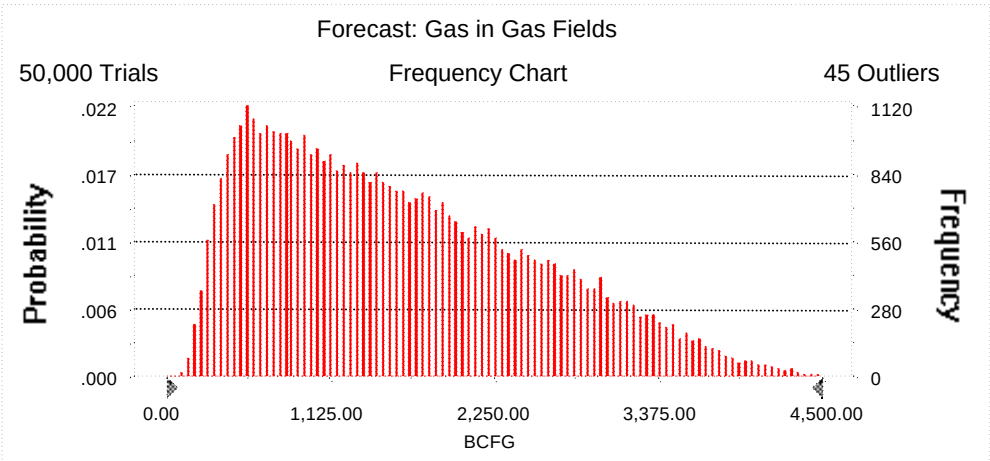
Romania Flysch Zone
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 4,500.00 BCFG
Entire range is from 109.76 to 5,570.88 BCFG
After 50,000 trials, the standard error of the mean is 4.18

Statistics:	Value
Trials	50000
Mean	1,611.74
Median	1,454.09
Mode	---
Standard Deviation	934.90
Variance	874,031.56
Skewness	0.60
Kurtosis	2.58
Coefficient of Variability	0.58
Range Minimum	109.76
Range Maximum	5,570.88
Range Width	5,461.12
Mean Standard Error	4.18



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Romania Flysch Zone
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	109.76
95%	391.37
90%	509.26
85%	611.93
80%	721.60
75%	831.70
70%	947.95
65%	1,066.83
60%	1,190.63
55%	1,319.38
50%	1,454.09
45%	1,595.21
40%	1,744.34
35%	1,898.30
30%	2,069.38
25%	2,257.05
20%	2,471.07
15%	2,703.37
10%	2,981.39
5%	3,351.85
0%	5,570.88

End of Forecast

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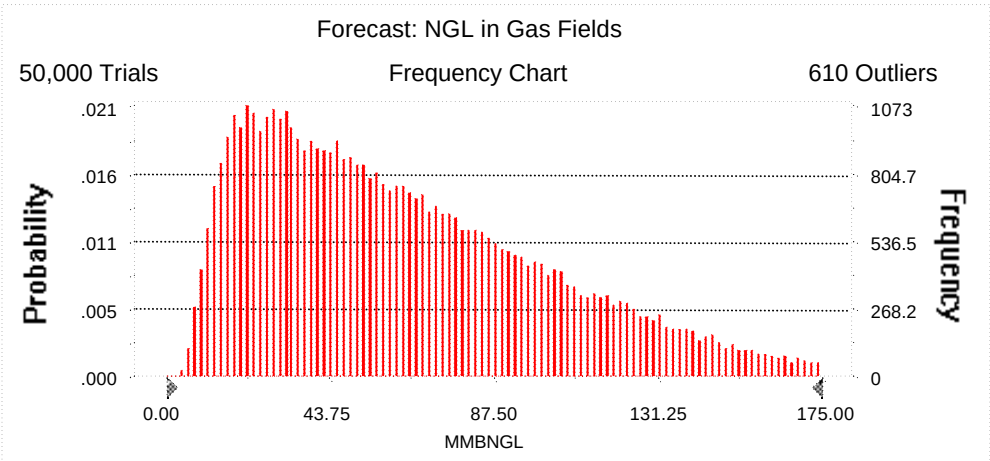
Romania Flysch Zone
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 175.00 MMBNGL
Entire range is from 2.70 to 272.25 MMBNGL
After 50,000 trials, the standard error of the mean is 0.18

Statistics:	Value
Trials	50000
Mean	64.48
Median	56.29
Mode	---
Standard Deviation	40.40
Variance	1,631.88
Skewness	0.88
Kurtosis	3.39
Coefficient of Variability	0.63
Range Minimum	2.70
Range Maximum	272.25
Range Width	269.55
Mean Standard Error	0.18



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Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	2.70
95%	14.65
90%	19.18
85%	23.42
80%	27.73
75%	32.02
70%	36.31
65%	41.16
60%	45.97
55%	50.96
50%	56.29
45%	61.94
40%	67.88
35%	74.31
30%	81.30
25%	89.14
20%	98.27
15%	108.74
10%	122.38
5%	141.95
0%	272.25

End of Forecast

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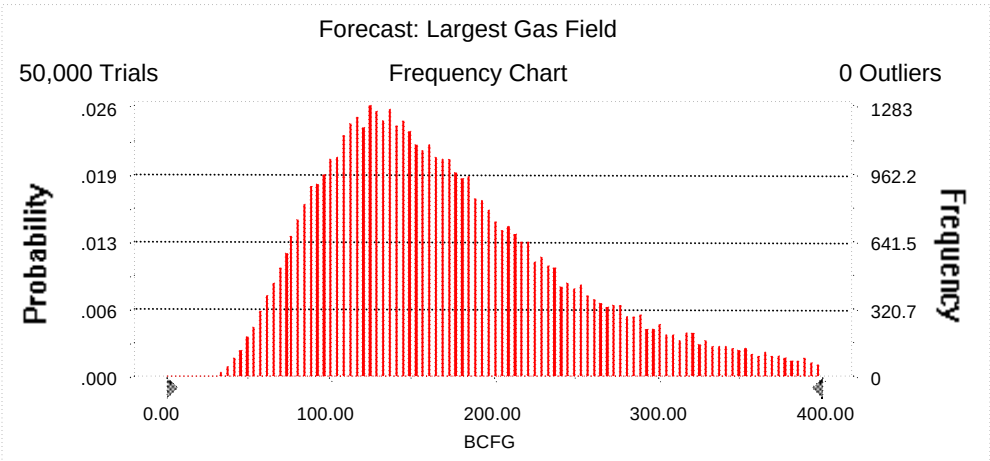
Romania Flysch Zone
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 400.00 BCFG
Entire range is from 24.47 to 399.96 BCFG
After 50,000 trials, the standard error of the mean is 0.33

Statistics:	Value
Trials	50000
Mean	170.70
Median	157.72
Mode	---
Standard Deviation	73.31
Variance	5,373.91
Skewness	0.77
Kurtosis	3.17
Coefficient of Variability	0.43
Range Minimum	24.47
Range Maximum	399.96
Range Width	375.49
Mean Standard Error	0.33



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Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	24.47
95%	72.69
90%	86.99
85%	97.88
80%	107.65
75%	116.23
70%	124.52
65%	132.38
60%	140.46
55%	148.82
50%	157.72
45%	167.08
40%	176.70
35%	187.18
30%	199.13
25%	213.02
20%	229.23
15%	249.71
10%	276.55
5%	317.03
0%	399.96

End of Forecast

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Romania Flysch Zone
Monte Carlo Results

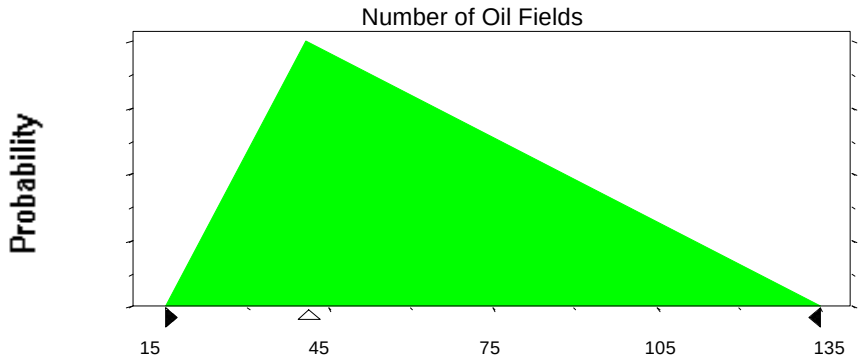
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	15
Likeliest	41
Maximum	135

Selected range is from 15 to 135
Mean value in simulation was 64



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	7.97	8.97
Standard Deviation	9.91	9.91

Selected range is from 0.00 to 99.00	1.00 to 100.00
Mean value in simulation was 7.83	8.83

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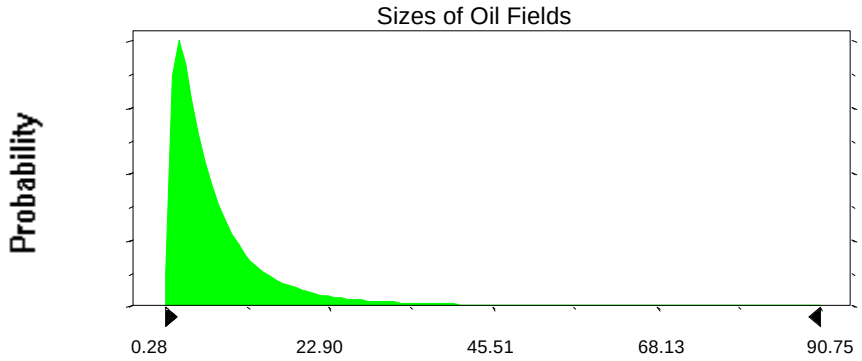
Assumption: Sizes of Oil Fields (cont'd)

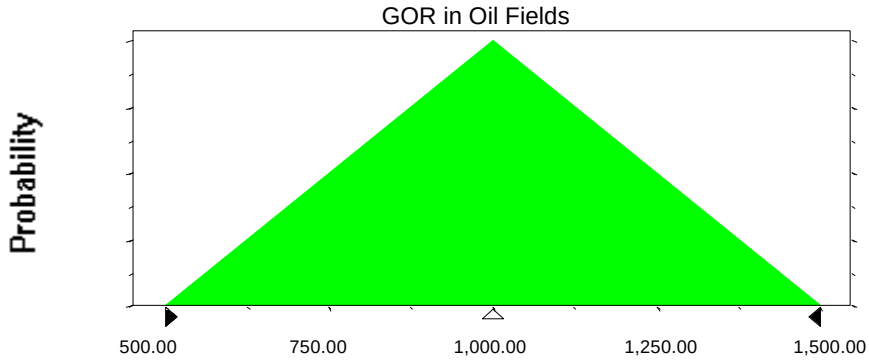


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	500.00
Likeliest	1,000.00
Maximum	1,500.00

Selected range is from 500.00 to 1,500.00
Mean value in simulation was 1,001.53



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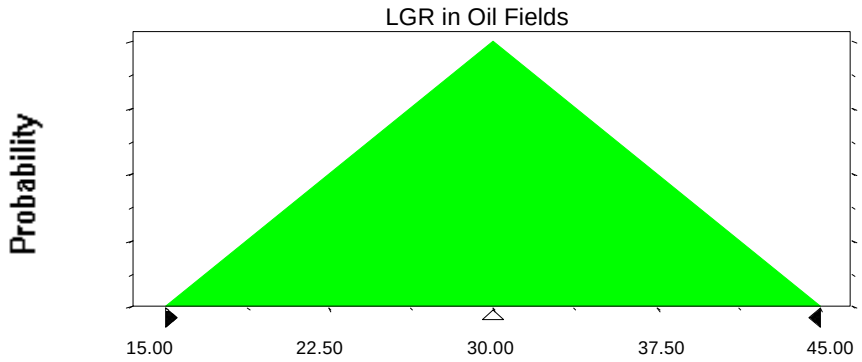
Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	15.00
Likeliest	30.00
Maximum	45.00

Selected range is from 15.00 to 45.00
Mean value in simulation was 29.98



Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	5
Likeliest	11
Maximum	100

Selected range is from 5 to 100
Mean value in simulation was 39

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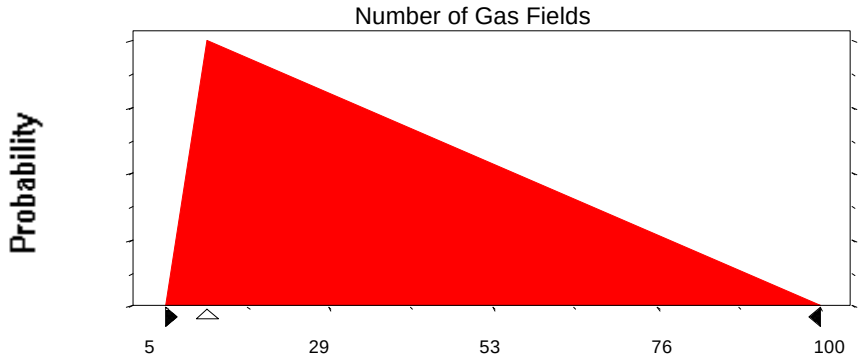
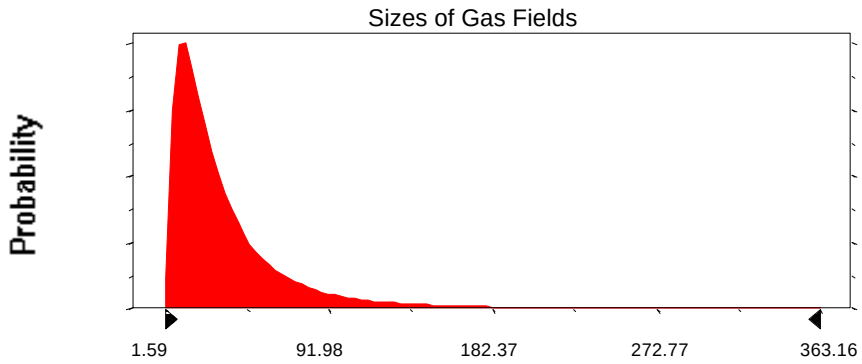
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	36.17	42.17
Standard Deviation	40.77	40.77
Selected range is from 0.00 to 394.00		6.00 to 400.00
Mean value in simulation was 35.72		41.72



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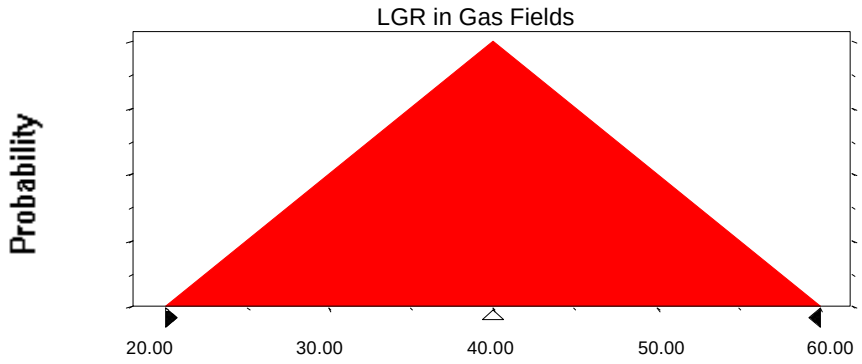
Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	20.00
Likeliest	40.00
Maximum	60.00

Selected range is from 20.00 to 60.00
Mean value in simulation was 40.00



End of Assumptions

Simulation started on 5/24/99 at 14:18:52
Simulation stopped on 5/24/99 at 15:17:48