

Zala-Drava-Sava Basins, Assessment Unit 40480201
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	54	108	194	114	45	108	241	121	2	4	10	5	8	15	36	18
Gas Fields	6						500	970	1,759	1,030	12	28	59	31	66	144	356	168
Total		1.00	54	108	194	114	545	1,078	2,000	1,151	14	32	69	36				

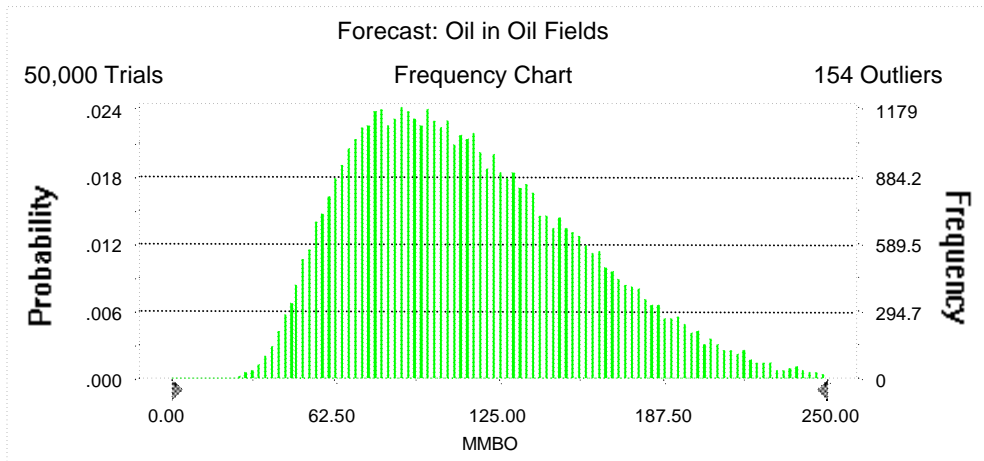
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Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 250.00 MMBO
Entire range is from 24.12 to 323.31 MMBO
After 50,000 trials, the standard error of the mean is 0.19

Statistics:	Value
Trials	50000
Mean	114.23
Median	108.39
Mode	---
Standard Deviation	43.25
Variance	1,870.33
Skewness	0.61
Kurtosis	3.02
Coefficient of Variability	0.38
Range Minimum	24.12
Range Maximum	323.31
Range Width	299.19
Mean Standard Error	0.19



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	24.12
95%	54.15
90%	62.78
85%	69.47
80%	75.32
75%	80.77
70%	86.32
65%	91.66
60%	97.21
55%	102.69
50%	108.39
45%	114.37
40%	120.47
35%	127.14
30%	134.24
25%	142.17
20%	151.25
15%	161.53
10%	174.55
5%	193.66
0%	323.31

End of Forecast

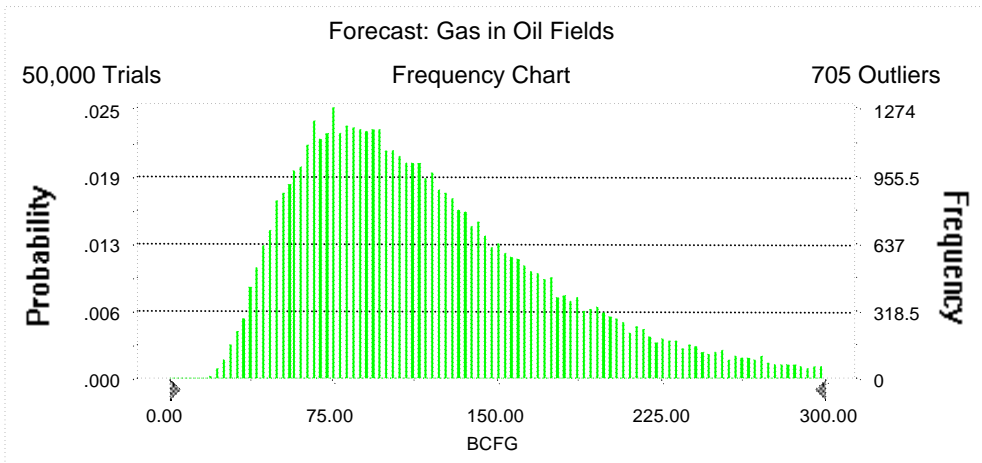
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 300.00 BCFG
 Entire range is from 16.21 to 571.19 BCFG
 After 50,000 trials, the standard error of the mean is 0.27

Statistics:	<u>Value</u>
Trials	50000
Mean	120.59
Median	107.81
Mode	---
Standard Deviation	61.45
Variance	3,776.21
Skewness	1.17
Kurtosis	4.70
Coefficient of Variability	0.51
Range Minimum	16.21
Range Maximum	571.19
Range Width	554.98
Mean Standard Error	0.27



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	16.21
95%	45.35
90%	54.49
85%	62.28
80%	68.87
75%	75.35
70%	81.54
65%	87.82
60%	94.16
55%	100.77
50%	107.81
45%	115.09
40%	122.91
35%	131.35
30%	141.14
25%	152.38
20%	165.59
15%	182.19
10%	204.29
5%	240.60
0%	571.19

End of Forecast

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Forecast: NGL in Oil Fields

Summary:

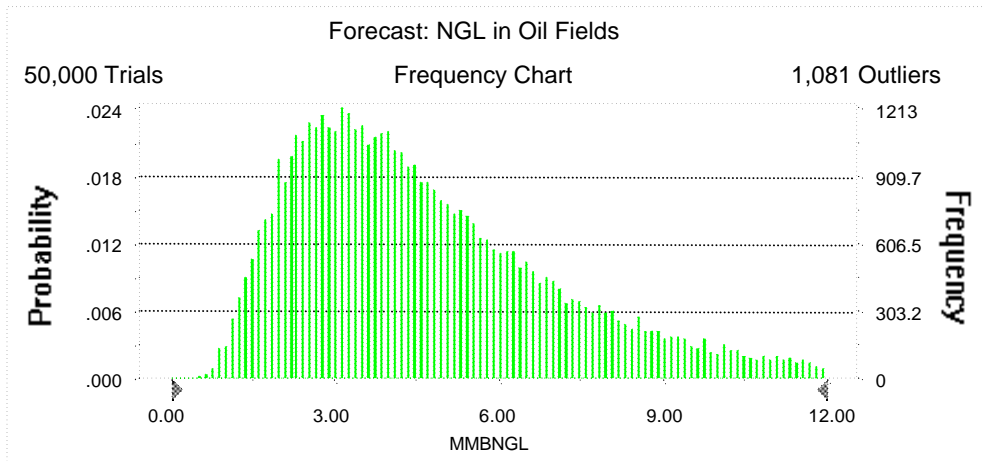
Display range is from 0.00 to 12.00 MMBNGL

Entire range is from 0.53 to 24.29 MMBNGL

After 50,000 trials, the standard error of the mean is 0.01

Statistics:

	<u>Value</u>
Trials	50000
Mean	4.83
Median	4.21
Mode	---
Standard Deviation	2.71
Variance	7.35
Skewness	1.38
Kurtosis	5.71
Coefficient of Variability	0.56
Range Minimum	0.53
Range Maximum	24.29
Range Width	23.76
Mean Standard Error	0.01



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.53
95%	1.65
90%	2.02
85%	2.34
80%	2.61
75%	2.87
70%	3.13
65%	3.39
60%	3.66
55%	3.93
50%	4.21
45%	4.52
40%	4.86
35%	5.24
30%	5.65
25%	6.15
20%	6.72
15%	7.46
10%	8.49
5%	10.13
0%	24.29

End of Forecast

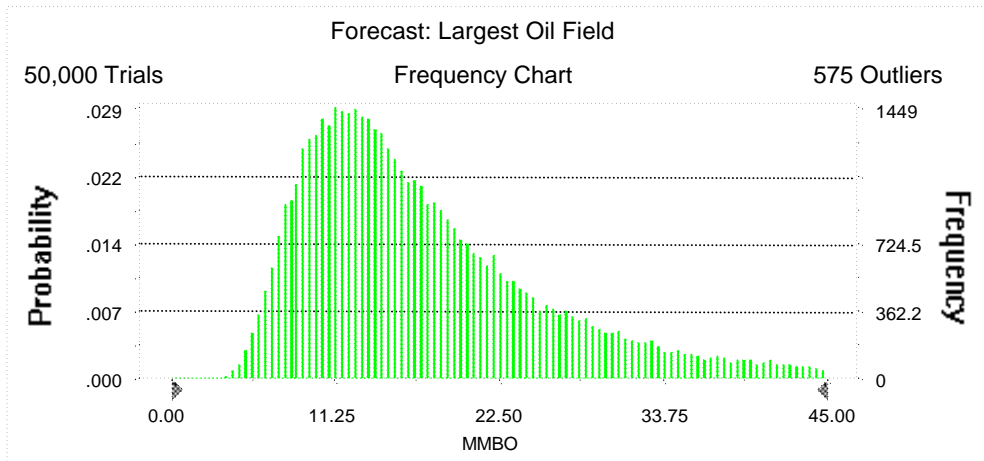
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Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 45.00 MMBO
Entire range is from 3.42 to 50.00 MMBO
After 50,000 trials, the standard error of the mean is 0.04

Statistics:	Value
Trials	50000
Mean	17.60
Median	15.43
Mode	---
Standard Deviation	8.65
Variance	74.76
Skewness	1.22
Kurtosis	4.35
Coefficient of Variability	0.49
Range Minimum	3.42
Range Maximum	50.00
Range Width	46.58
Mean Standard Error	0.04



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	3.42
95%	7.53
90%	8.73
85%	9.67
80%	10.52
75%	11.32
70%	12.12
65%	12.90
60%	13.71
55%	14.53
50%	15.43
45%	16.44
40%	17.51
35%	18.70
30%	20.08
25%	21.71
20%	23.67
15%	26.26
10%	29.79
5%	35.63
0%	50.00

End of Forecast

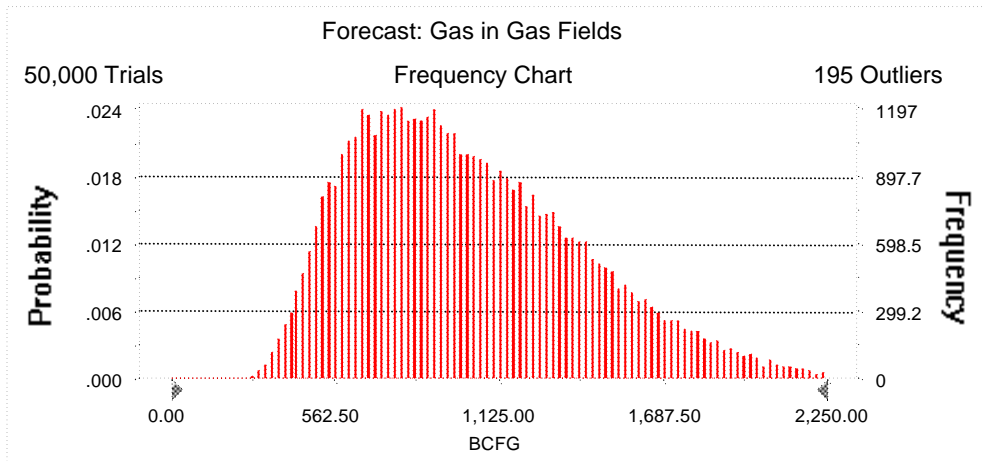
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Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 2,250.00 BCFG
 Entire range is from 227.34 to 2,988.76 BCFG
 After 50,000 trials, the standard error of the mean is 1.75

Statistics:	<u>Value</u>
Trials	50000
Mean	1,030.17
Median	970.05
Mode	---
Standard Deviation	391.94
Variance	153,617.45
Skewness	0.69
Kurtosis	3.18
Coefficient of Variability	0.38
Range Minimum	227.34
Range Maximum	2,988.76
Range Width	2,761.41
Mean Standard Error	1.75



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	227.34
95%	499.70
90%	570.43
85%	626.79
80%	677.29
75%	727.51
70%	774.82
65%	822.24
60%	871.09
55%	919.75
50%	970.05
45%	1,025.50
40%	1,081.73
35%	1,143.64
30%	1,207.76
25%	1,280.60
20%	1,360.21
15%	1,453.88
10%	1,575.79
5%	1,759.01
0%	2,988.76

End of Forecast

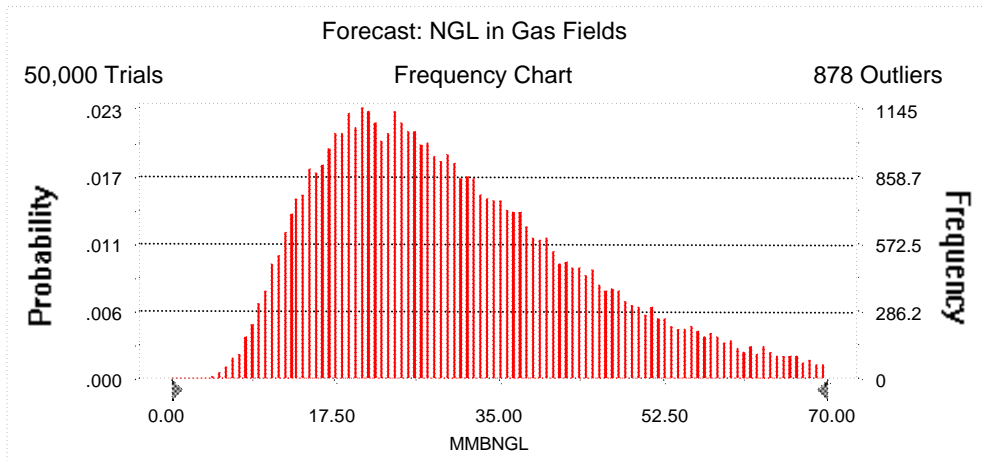
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 70.00 MMBNGL
Entire range is from 3.54 to 127.34 MMBNGL
After 50,000 trials, the standard error of the mean is 0.07

Statistics:	Value
Trials	50000
Mean	30.87
Median	28.07
Mode	---
Standard Deviation	14.80
Variance	218.99
Skewness	1.01
Kurtosis	4.19
Coefficient of Variability	0.48
Range Minimum	3.54
Range Maximum	127.34
Range Width	123.79
Mean Standard Error	0.07



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	3.54
95%	12.00
90%	14.44
85%	16.44
80%	18.22
75%	19.85
70%	21.41
65%	23.06
60%	24.68
55%	26.31
50%	28.07
45%	29.95
40%	31.92
35%	34.07
30%	36.43
25%	39.05
20%	42.22
15%	46.04
10%	51.25
5%	59.33
0%	127.34

End of Forecast

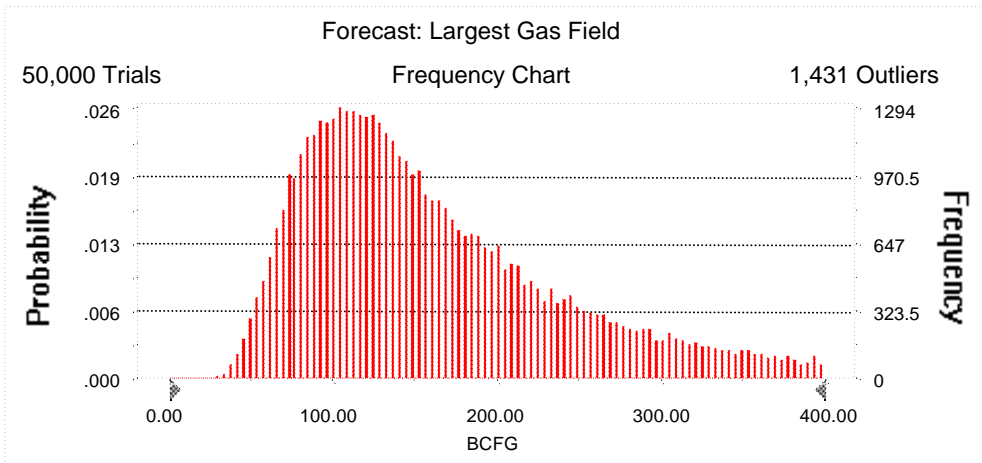
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Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 400.00 BCFG
 Entire range is from 25.65 to 499.92 BCFG
 After 50,000 trials, the standard error of the mean is 0.40

Statistics:	<u>Value</u>
Trials	50000
Mean	167.85
Median	144.28
Mode	---
Standard Deviation	89.16
Variance	7,949.75
Skewness	1.25
Kurtosis	4.36
Coefficient of Variability	0.53
Range Minimum	25.65
Range Maximum	499.92
Range Width	474.27
Mean Standard Error	0.40



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	25.65
95%	66.02
90%	77.47
85%	86.93
80%	95.25
75%	103.35
70%	111.16
65%	118.95
60%	126.96
55%	135.21
50%	144.28
45%	154.16
40%	165.37
35%	178.01
30%	192.44
25%	209.27
20%	230.55
15%	257.41
10%	294.86
5%	355.82
0%	499.92

End of Forecast

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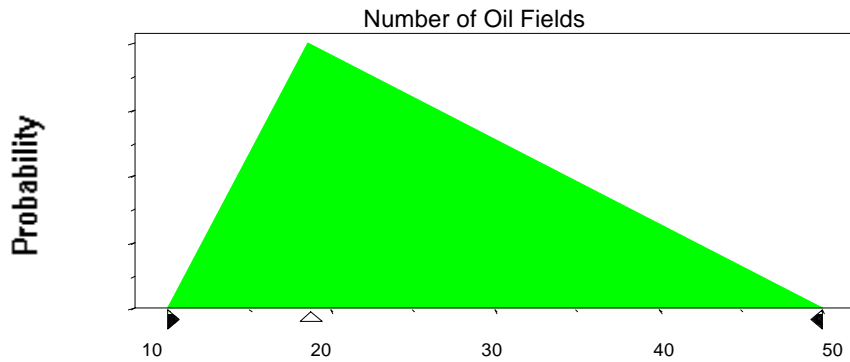
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	19
Maximum	50

Selected range is from 10 to 50
Mean value in simulation was 26



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	3.42
Standard Deviation	4.74

Shifted parameters

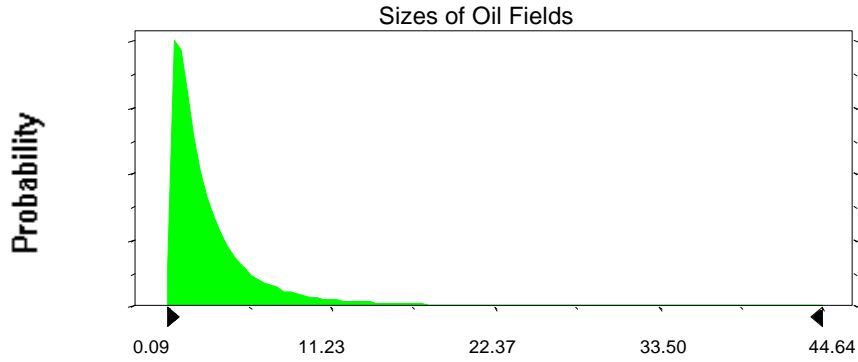
4.42
4.74

Selected range is from 0.00 to 49.00
Mean value in simulation was 3.37

1.00 to 50.00
4.37

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Assumption: Sizes of Oil Fields (cont'd)



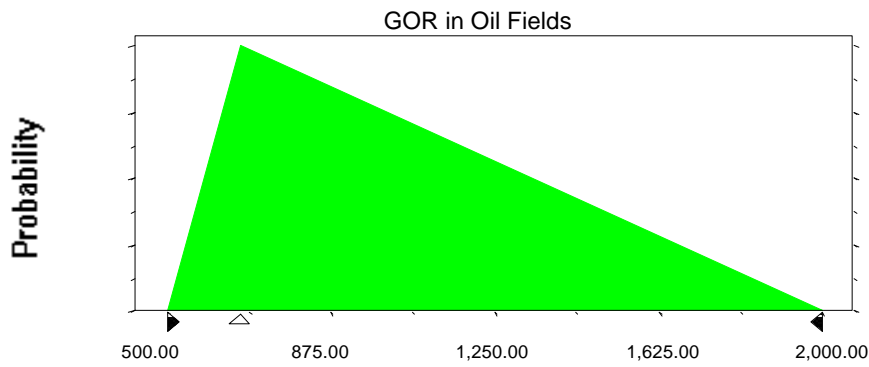
Assumption: GOR in Oil Fields

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 1,054.99



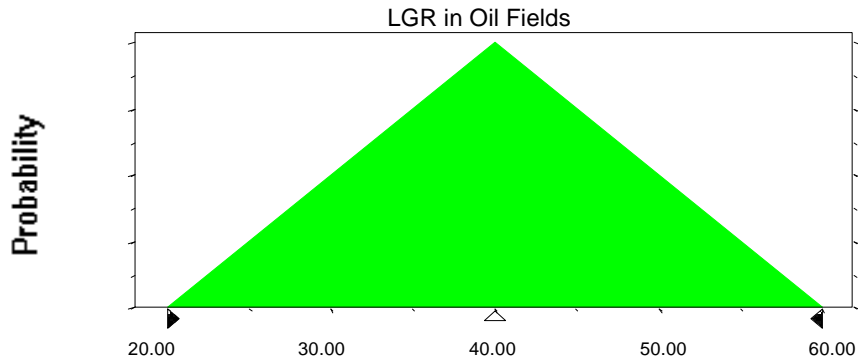
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Assumption: LGR in Oil Fields

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 40.05



Assumption: Number of Gas Fields

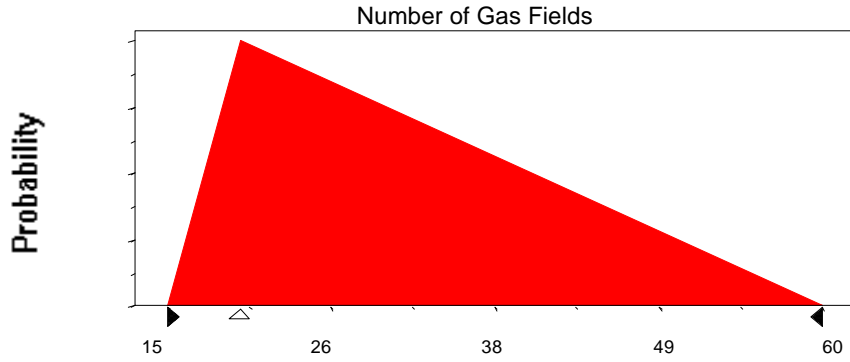
Triangular distribution with parameters:

Minimum	15
Likeliest	20
Maximum	60

Selected range is from 15 to 60
Mean value in simulation was 32

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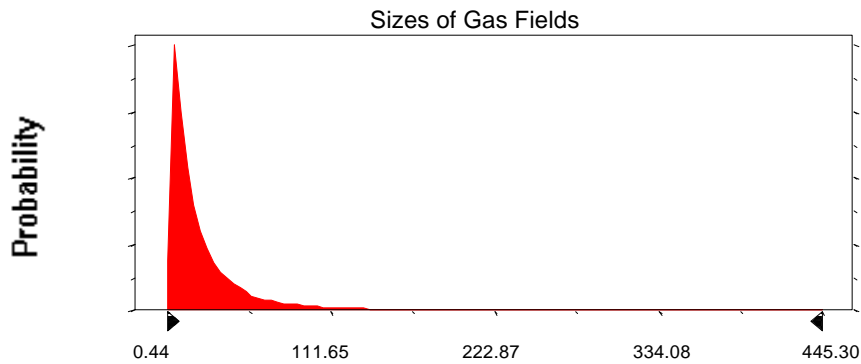
Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	27.22	33.22
Standard Deviation	45.39	45.39

Selected range is from 0.00 to 494.00	6.00 to 500.00
Mean value in simulation was 26.69	32.69



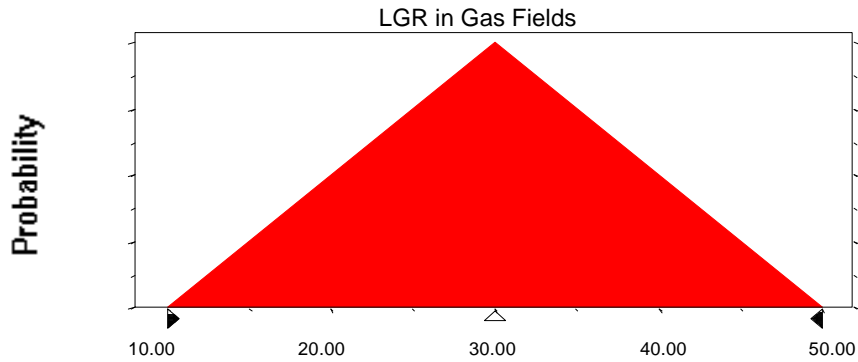
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Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	10.00
Likeliest	30.00
Maximum	50.00

Selected range is from 10.00 to 50.00
Mean value in simulation was 29.98



End of Assumptions

Simulation started on 6/1/99 at 16:59:10
Simulation stopped on 6/1/99 at 17:28:16