

Locker-Mungaroo/Barrow, Assessment Unit 39480201
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	15	1.00	41	119	265	132	15	48	124	55	1	3	8	3	22	40	98	47
Gas Fields	90						1,396	6,931	19,623	8,275	58	297	903	365	355	1,646	7,736	2,475
Total		1.00	41	119	265	132	1,411	6,979	19,747	8,331	59	300	911	368				

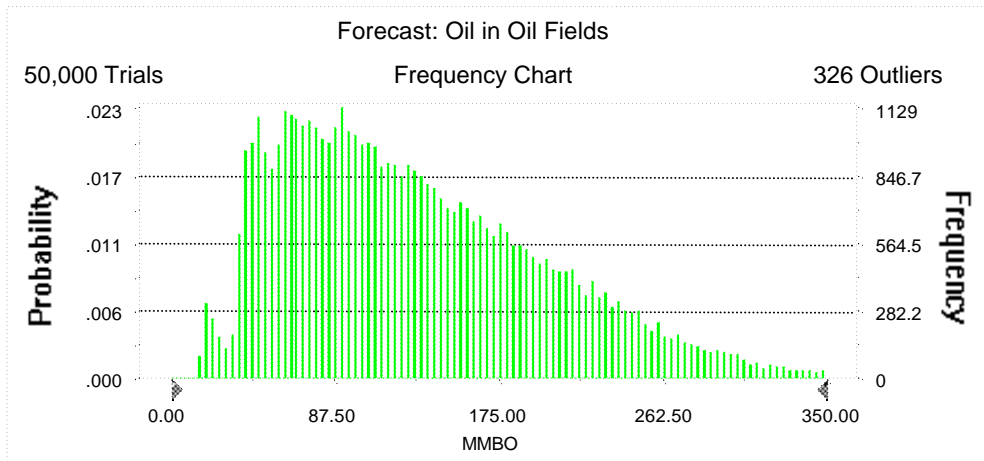
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Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 350.00 MMBO
Entire range is from 15.33 to 549.16 MMBO
After 50,000 trials, the standard error of the mean is 0.32

Statistics:	Value
Trials	50000
Mean	131.82
Median	118.86
Mode	---
Standard Deviation	71.40
Variance	5,098.24
Skewness	0.83
Kurtosis	3.46
Coefficient of Variability	0.54
Range Minimum	15.33
Range Maximum	549.16
Range Width	533.83
Mean Standard Error	0.32



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	15.33
95%	41.26
90%	49.79
85%	59.17
80%	67.16
75%	75.26
70%	83.66
65%	92.07
60%	100.43
55%	109.23
50%	118.86
45%	128.77
40%	139.08
35%	150.68
30%	163.08
25%	176.71
20%	191.88
15%	210.14
10%	232.03
5%	264.64
0%	549.16

End of Forecast

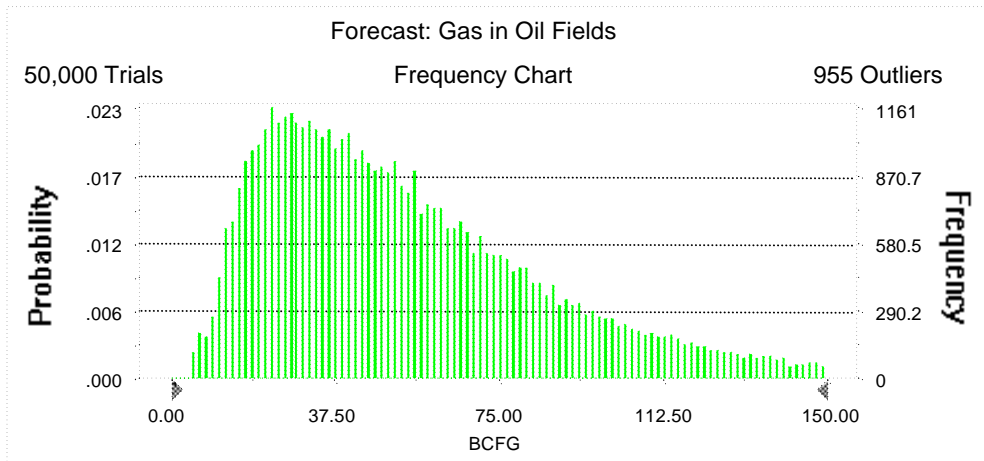
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 150.00 BCFG
Entire range is from 4.07 to 338.18 BCFG
After 50,000 trials, the standard error of the mean is 0.16

Statistics:	Value
Trials	50000
Mean	55.49
Median	47.74
Mode	---
Standard Deviation	34.78
Variance	1,209.84
Skewness	1.29
Kurtosis	5.24
Coefficient of Variability	0.63
Range Minimum	4.07
Range Maximum	338.18
Range Width	334.11
Mean Standard Error	0.16



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	4.07
95%	14.91
90%	19.11
85%	22.68
80%	26.02
75%	29.39
70%	32.80
65%	36.30
60%	39.98
55%	43.74
50%	47.74
45%	51.92
40%	56.35
35%	61.34
30%	66.86
25%	73.15
20%	80.53
15%	89.93
10%	102.85
5%	123.75
0%	338.18

End of Forecast

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Forecast: NGL in Oil Fields

Summary:

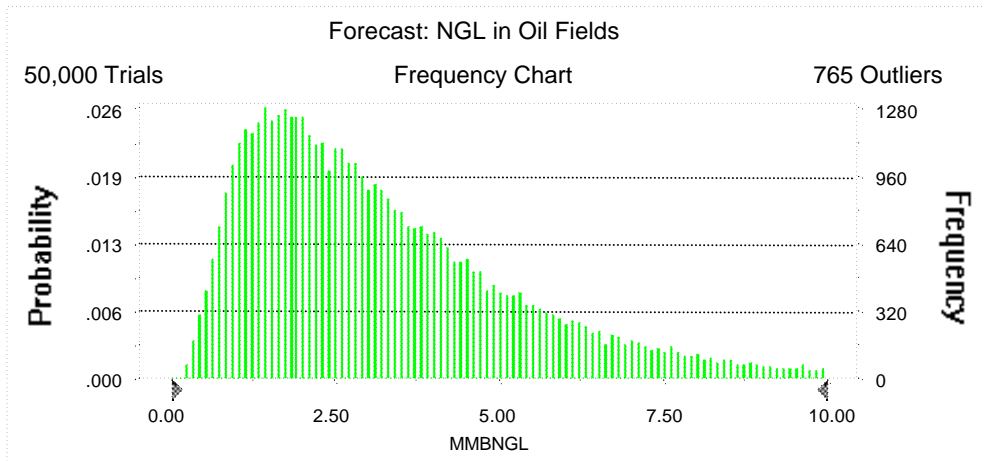
Display range is from 0.00 to 10.00 MMBNGL

Entire range is from 0.16 to 26.03 MMBNGL

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

Statistics:

	<u>Value</u>
Trials	50000
Mean	3.33
Median	2.79
Mode	---
Standard Deviation	2.23
Variance	4.98
Skewness	1.50
Kurtosis	6.36
Coefficient of Variability	0.67
Range Minimum	0.16
Range Maximum	26.03
Range Width	25.87
Mean Standard Error	0.01



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	0.16
95%	0.83
90%	1.08
85%	1.29
80%	1.49
75%	1.69
70%	1.89
65%	2.10
60%	2.32
55%	2.55
50%	2.79
45%	3.04
40%	3.32
35%	3.63
30%	3.99
25%	4.37
20%	4.85
15%	5.47
10%	6.30
5%	7.71
0%	26.03

End of Forecast

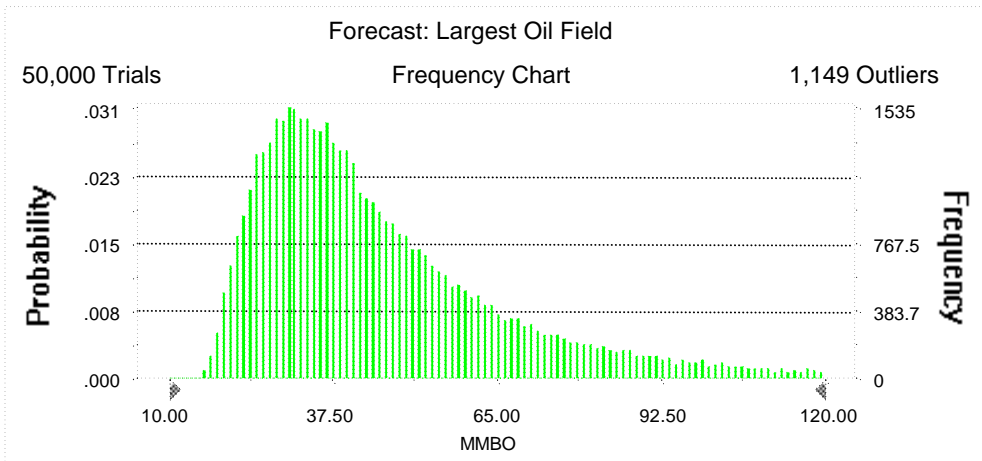
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Forecast: Largest Oil Field

Summary:

Display range is from 10.00 to 120.00 MMBO
Entire range is from 15.33 to 199.43 MMBO
After 50,000 trials, the standard error of the mean is 0.11

Statistics:	Value
Trials	50000
Mean	47.48
Median	40.42
Mode	---
Standard Deviation	25.12
Variance	631.08
Skewness	2.03
Kurtosis	8.62
Coefficient of Variability	0.53
Range Minimum	15.33
Range Maximum	199.43
Range Width	184.10
Mean Standard Error	0.11



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	15.33
95%	22.24
90%	24.83
85%	26.96
80%	28.88
75%	30.73
70%	32.51
65%	34.42
60%	36.35
55%	38.30
50%	40.42
45%	42.76
40%	45.51
35%	48.53
30%	52.03
25%	56.15
20%	61.38
15%	68.30
10%	78.69
5%	97.53
0%	199.43

End of Forecast

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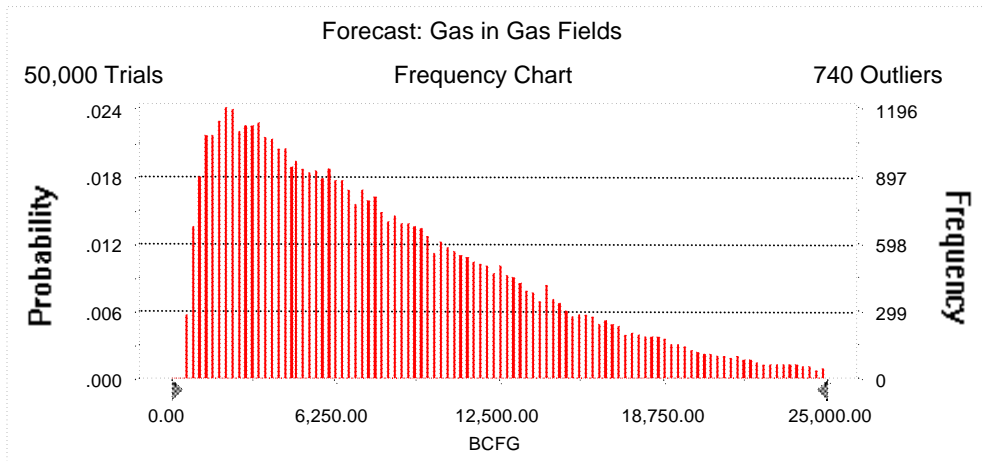
Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 25,000.00 BCFG
Entire range is from 393.72 to 59,174.89 BCFG
After 50,000 trials, the standard error of the mean is 26.50

Statistics:

	<u>Value</u>
Trials	50000
Mean	8,275.26
Median	6,930.99
Mode	---
Standard Deviation	5,924.90
Variance	35,104,461.89
Skewness	1.20
Kurtosis	4.84
Coefficient of Variability	0.72
Range Minimum	393.72
Range Maximum	59,174.89
Range Width	58,781.16
Mean Standard Error	26.50



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	393.72
95%	1,396.12
90%	1,964.40
85%	2,492.71
80%	3,054.35
75%	3,613.33
70%	4,212.81
65%	4,847.88
60%	5,520.76
55%	6,205.80
50%	6,930.99
45%	7,706.08
40%	8,548.52
35%	9,450.67
30%	10,460.32
25%	11,565.37
20%	12,846.76
15%	14,386.12
10%	16,444.39
5%	19,623.42
0%	59,174.89

End of Forecast

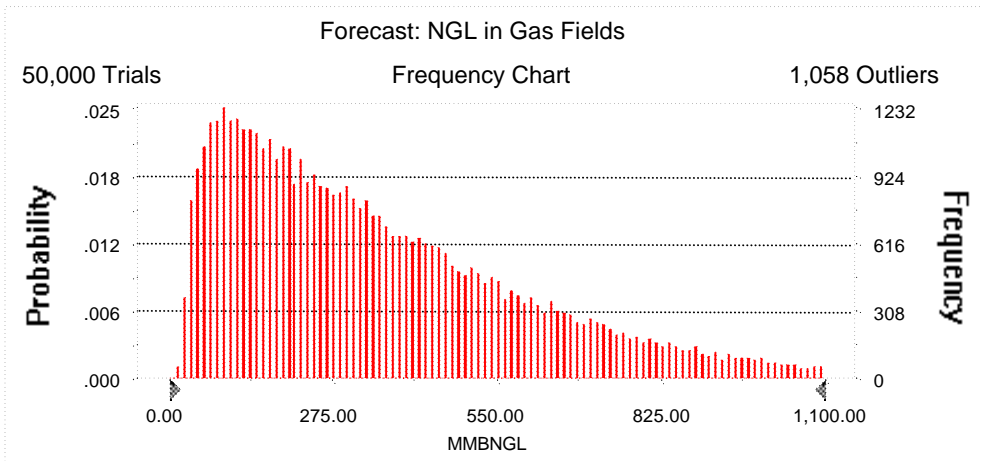
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,100.00 MMBNGL
 Entire range is from 14.00 to 3,517.93 MMBNGL
 After 50,000 trials, the standard error of the mean is 1.24

Statistics:	<u>Value</u>
Trials	50000
Mean	364.54
Median	296.83
Mode	---
Standard Deviation	276.89
Variance	76,665.70
Skewness	1.44
Kurtosis	6.14
Coefficient of Variability	0.76
Range Minimum	14.00
Range Maximum	3,517.93
Range Width	3,503.93
Mean Standard Error	1.24



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	14.00
95%	58.34
90%	82.30
85%	105.10
80%	128.86
75%	152.83
70%	178.72
65%	205.02
60%	234.27
55%	264.58
50%	296.83
45%	330.15
40%	366.36
35%	408.32
30%	452.56
25%	504.50
20%	564.11
15%	640.65
10%	739.51
5%	902.98
0%	3,517.93

End of Forecast

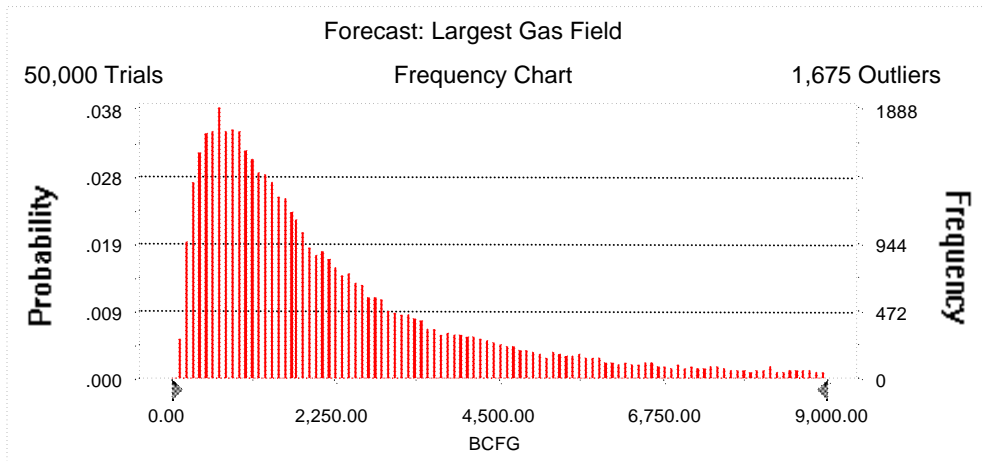
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Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 9,000.00 BCFG
Entire range is from 101.17 to 14,999.84 BCFG
After 50,000 trials, the standard error of the mean is 10.93

Statistics:	Value
Trials	50000
Mean	2,474.64
Median	1,645.67
Mode	---
Standard Deviation	2,443.43
Variance	5,970,371.14
Skewness	2.13
Kurtosis	8.17
Coefficient of Variability	0.99
Range Minimum	101.17
Range Maximum	14,999.84
Range Width	14,898.67
Mean Standard Error	10.93



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	101.17
95%	354.64
90%	492.33
85%	622.71
80%	745.34
75%	874.59
70%	1,005.43
65%	1,147.87
60%	1,301.91
55%	1,467.29
50%	1,645.67
45%	1,848.90
40%	2,097.87
35%	2,372.30
30%	2,698.57
25%	3,120.14
20%	3,669.23
15%	4,419.28
10%	5,574.11
5%	7,736.43
0%	14,999.84

End of Forecast

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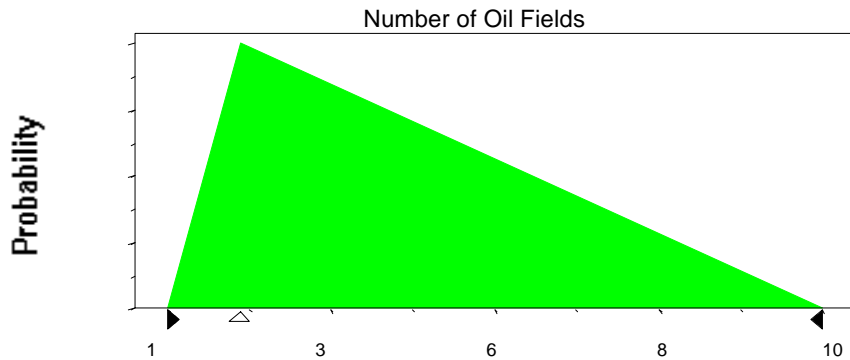
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	2
Maximum	10

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



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	15.62
Standard Deviation	18.74

Shifted parameters

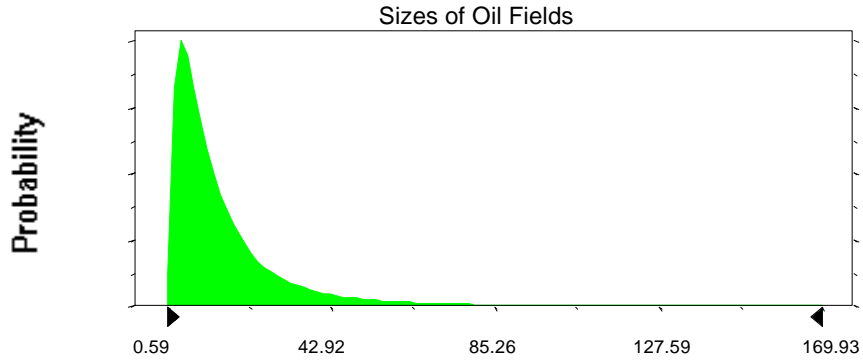
30.62
18.74

Selected range is from 0.00 to 185.00
Mean value in simulation was 15.38

15.00 to 200.00
30.38

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Assumption: Sizes of Oil Fields (cont'd)



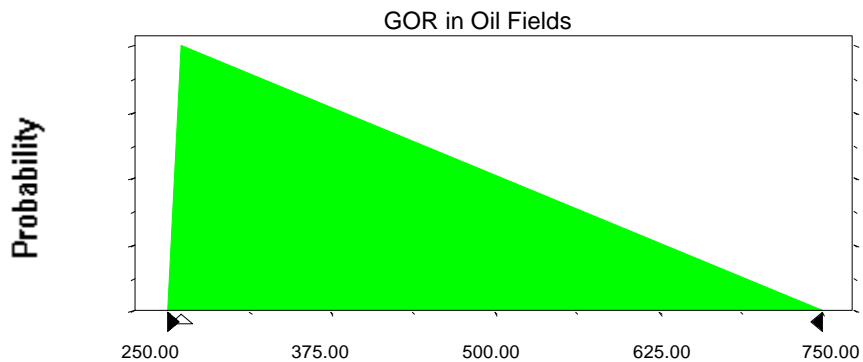
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	250.00
Likeliest	260.00
Maximum	750.00

Selected range is from 250.00 to 750.00

Mean value in simulation was 420.84



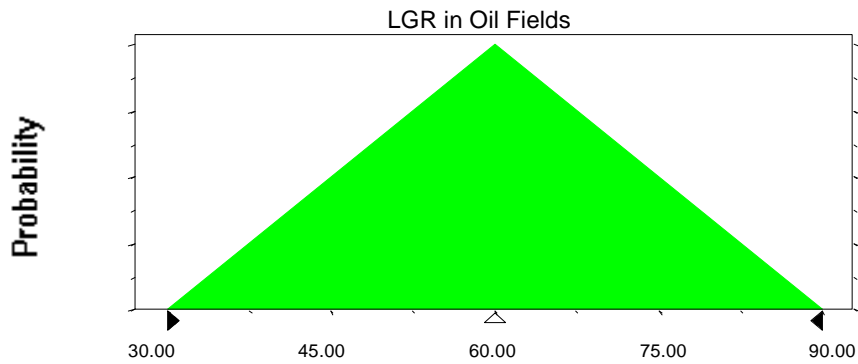
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Assumption: LGR in Oil Fields

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 59.96



Assumption: Number of Gas Fields

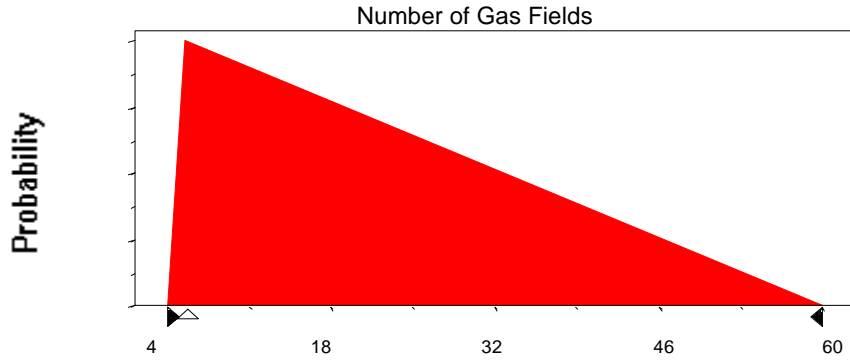
Triangular distribution with parameters:

Minimum	4
Likeliest	6
Maximum	60

Selected range is from 4 to 60
Mean value in simulation was 23

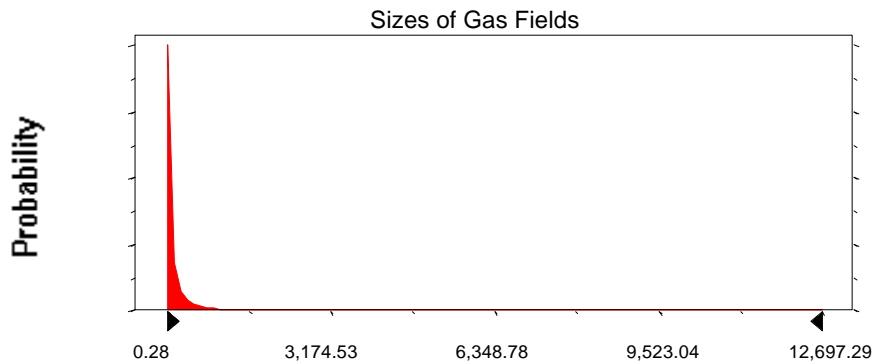
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Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	295.11	385.11
Standard Deviation	1,421.15	1,421.15
Selected range is from 0.00 to 14,910.00		90.00 to 15,000.00
Mean value in simulation was 263.11		353.11



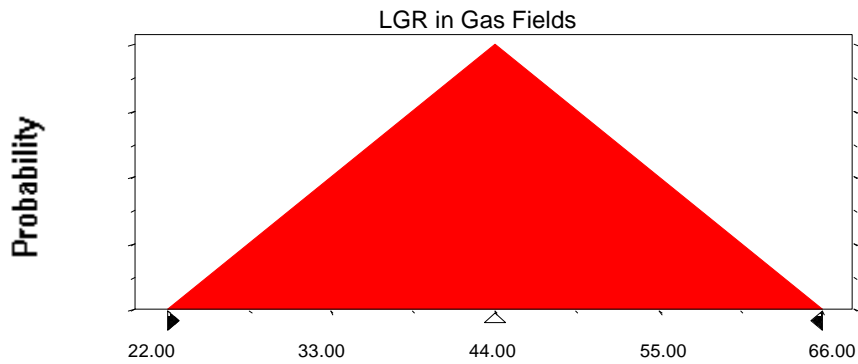
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Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00
Mean value in simulation was 44.02



End of Assumptions

Simulation started on 12/8/98 at 16:43:26
Simulation stopped on 12/8/98 at 17:05:33