

Gabon Suprasalt, Assessment Unit 72030201
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	1,241	4,545	10,429	5,031	1,615	6,169	15,492	7,049	75	300	806	353	234	898	2,758	1,112
Gas Fields	6		1,241	4,545	10,429	5,031	1,233	5,403	13,803	6,181	51	232	634	272	322	1,423	6,025	2,022
Total		1.00	1,241	4,545	10,429	5,031	2,848	11,572	29,295	13,230	127	532	1,441	625				

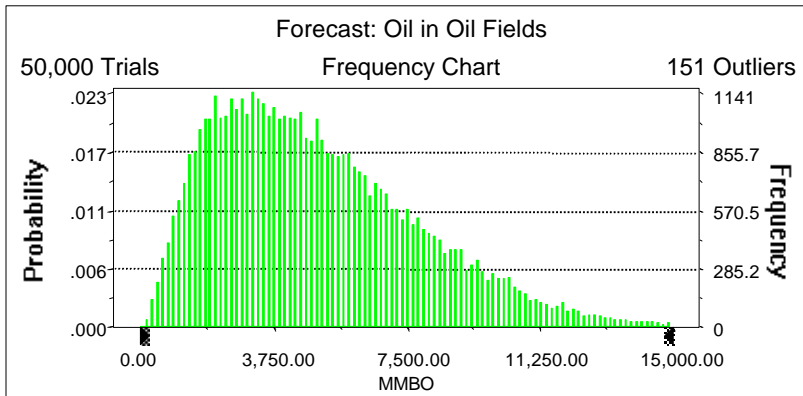
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Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 15,000.00 MMBO
Entire range is from 128.93 to 24,686.98 MMBO
After 50,000 trials, the standard error of the mean is 12.95

Statistics:	Value
Trials	50000
Mean	5,030.99
Median	4,544.89
Mode	---
Standard Deviation	2,895.45
Variance	8,383,621.65
Skewness	0.83
Kurtosis	3.59
Coefficient of Variability	0.58
Range Minimum	128.93
Range Maximum	24,686.98
Range Width	24,558.05
Mean Standard Error	12.95



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Forecast: Oil in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	128.93
95%	1,241.27
90%	1,693.46
85%	2,074.41
80%	2,426.41
75%	2,775.21
70%	3,124.96
65%	3,460.28
60%	3,814.49
55%	4,180.81
50%	4,544.89
45%	4,942.86
40%	5,341.49
35%	5,792.63
30%	6,258.63
25%	6,797.29
20%	7,421.36
15%	8,139.18
10%	9,070.16
5%	10,428.91
0%	24,686.98

End of Forecast

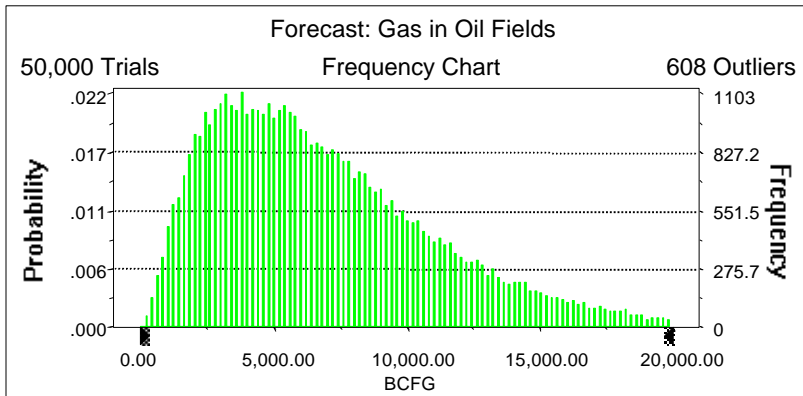
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Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 20,000.00 BCFG
 Entire range is from 174.75 to 32,159.47 BCFG
 After 50,000 trials, the standard error of the mean is 19.65

Statistics:	<u>Value</u>
Trials	50000
Mean	7,048.55
Median	6,168.94
Mode	---
Standard Deviation	4,394.41
Variance	19,310,858.58
Skewness	1.10
Kurtosis	4.47
Coefficient of Variability	0.62
Range Minimum	174.75
Range Maximum	32,159.47
Range Width	31,984.73
Mean Standard Error	19.65



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Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	174.75
95%	1,614.61
90%	2,225.60
85%	2,753.27
80%	3,232.75
75%	3,710.14
70%	4,187.89
65%	4,672.47
60%	5,170.00
55%	5,656.09
50%	6,168.94
45%	6,730.03
40%	7,325.83
35%	7,954.36
30%	8,648.57
25%	9,456.59
20%	10,396.61
15%	11,544.59
10%	13,049.68
5%	15,491.88
0%	32,159.47

End of Forecast

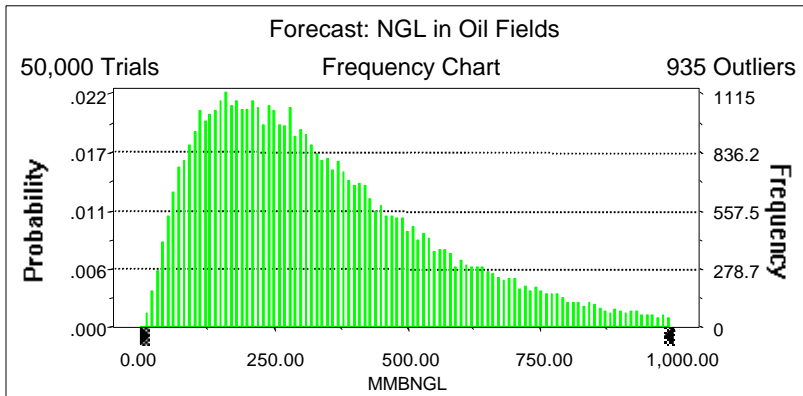
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Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 1,000.00 MMBNGL
Entire range is from 8.29 to 2,095.75 MMBNGL
After 50,000 trials, the standard error of the mean is 1.06

Statistics:	Value
Trials	50000
Mean	353.08
Median	300.41
Mode	---
Standard Deviation	236.50
Variance	55,933.15
Skewness	1.35
Kurtosis	5.69
Coefficient of Variability	0.67
Range Minimum	8.29
Range Maximum	2,095.75
Range Width	2,087.46
Mean Standard Error	1.06



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Forecast: NGL in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	8.29
95%	75.33
90%	104.91
85%	130.20
80%	154.58
75%	177.63
70%	201.17
65%	224.48
60%	249.35
55%	274.53
50%	300.41
45%	328.17
40%	358.84
35%	391.91
30%	428.68
25%	472.73
20%	522.72
15%	585.67
10%	671.92
5%	806.42
0%	2,095.75

End of Forecast

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Forecast: Largest Oil Field

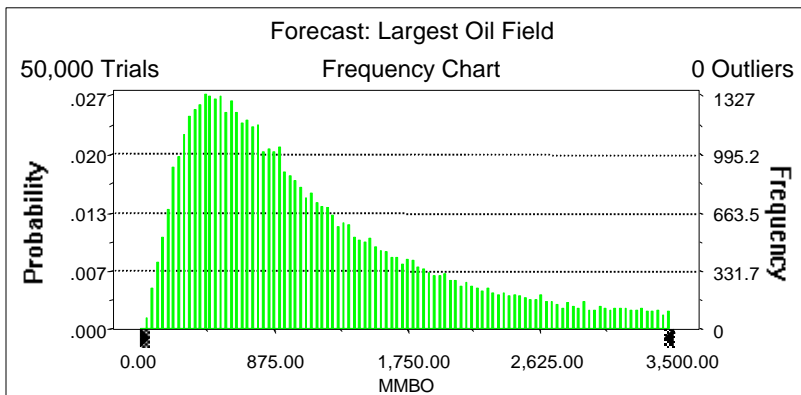
Summary:

Display range is from 0.00 to 3,500.00 MMBO

Entire range is from 29.28 to 3,498.97 MMBO

After 50,000 trials, the standard error of the mean is 3.44

Statistics:	Value
Trials	50000
Mean	1,112.33
Median	898.23
Mode	---
Standard Deviation	770.16
Variance	593,152.29
Skewness	1.06
Kurtosis	3.49
Coefficient of Variability	0.69
Range Minimum	29.28
Range Maximum	3,498.97
Range Width	3,469.70
Mean Standard Error	3.44



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Forecast: Largest Oil Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBO</u>
100%	29.28
95%	233.91
90%	318.28
85%	390.29
80%	456.82
75%	523.03
70%	592.45
65%	661.52
60%	735.94
55%	813.06
50%	898.23
45%	991.99
40%	1,096.38
35%	1,216.59
30%	1,353.86
25%	1,514.85
20%	1,711.15
15%	1,954.72
10%	2,286.87
5%	2,757.89
0%	3,498.97

End of Forecast

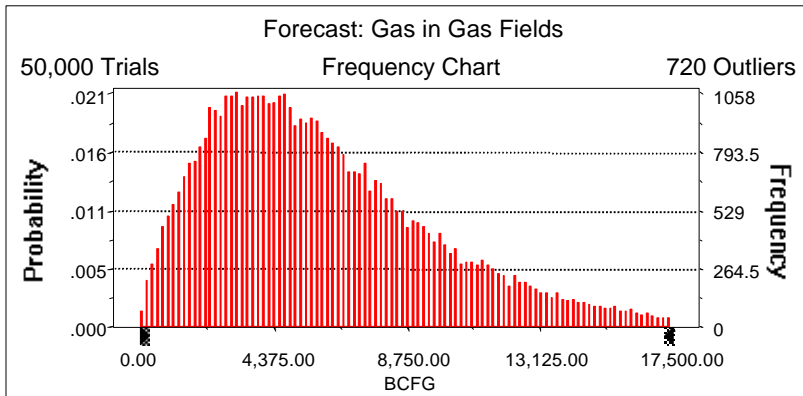
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Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 17,500.00 BCFG
 Entire range is from 34.06 to 33,024.91 BCFG
 After 50,000 trials, the standard error of the mean is 17.73

Statistics:	<u>Value</u>
Trials	50000
Mean	6,181.16
Median	5,402.57
Mode	---
Standard Deviation	3,965.60
Variance	15,725,998.46
Skewness	1.17
Kurtosis	4.92
Coefficient of Variability	0.64
Range Minimum	34.06
Range Maximum	33,024.91
Range Width	32,990.84
Mean Standard Error	17.73



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Forecast: Gas in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	34.06
95%	1,233.26
90%	1,868.45
85%	2,375.47
80%	2,830.01
75%	3,245.45
70%	3,670.99
65%	4,091.73
60%	4,515.69
55%	4,938.22
50%	5,402.57
45%	5,870.28
40%	6,371.05
35%	6,927.23
30%	7,552.58
25%	8,256.17
20%	9,109.69
15%	10,134.05
10%	11,563.75
5%	13,803.25
0%	33,024.91

End of Forecast

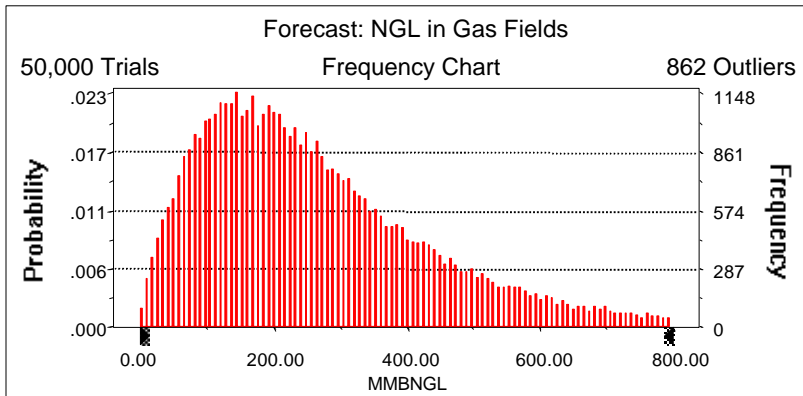
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Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 800.00 MMBNGL
 Entire range is from 1.21 to 1,775.02 MMBNGL
 After 50,000 trials, the standard error of the mean is 0.84

Statistics:	<u>Value</u>
Trials	50000
Mean	272.37
Median	231.51
Mode	---
Standard Deviation	187.00
Variance	34,968.88
Skewness	1.40
Kurtosis	6.00
Coefficient of Variability	0.69
Range Minimum	1.21
Range Maximum	1,775.02
Range Width	1,773.82
Mean Standard Error	0.84



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Forecast: NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>MMBNGL</u>
100%	1.21
95%	51.31
90%	77.35
85%	98.80
80%	118.14
75%	136.43
70%	154.46
65%	173.07
60%	192.44
55%	211.31
50%	231.51
45%	252.96
40%	275.47
35%	301.20
30%	329.94
25%	362.84
20%	402.91
15%	451.83
10%	521.33
5%	634.09
0%	1,775.02

End of Forecast

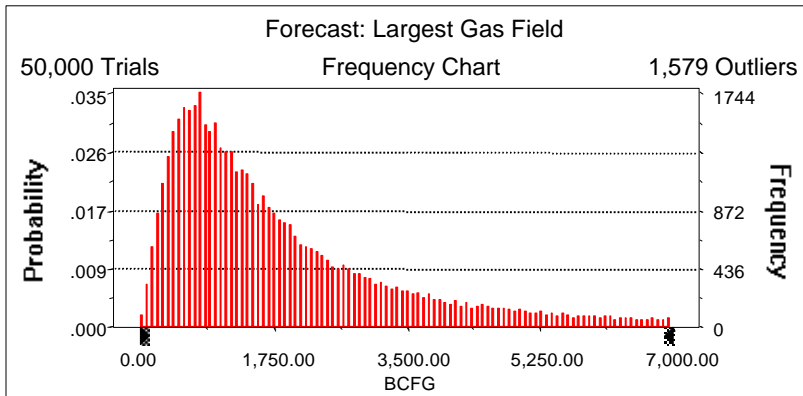
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Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 7,000.00 BCFG
Entire range is from 12.10 to 9,993.25 BCFG
After 50,000 trials, the standard error of the mean is 8.10

Statistics:	Value
Trials	50000
Mean	2,021.80
Median	1,423.31
Mode	---
Standard Deviation	1,812.28
Variance	3,284,367.79
Skewness	1.81
Kurtosis	6.37
Coefficient of Variability	0.90
Range Minimum	12.10
Range Maximum	9,993.25
Range Width	9,981.16
Mean Standard Error	8.10



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Forecast: Largest Gas Field (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	12.10
95%	321.84
90%	457.10
85%	572.88
80%	679.78
75%	784.33
70%	892.44
65%	1,010.78
60%	1,136.27
55%	1,271.52
50%	1,423.31
45%	1,593.72
40%	1,782.76
35%	1,999.09
30%	2,273.57
25%	2,611.24
20%	3,028.91
15%	3,607.31
10%	4,496.04
5%	6,024.55
0%	9,993.25

End of Forecast

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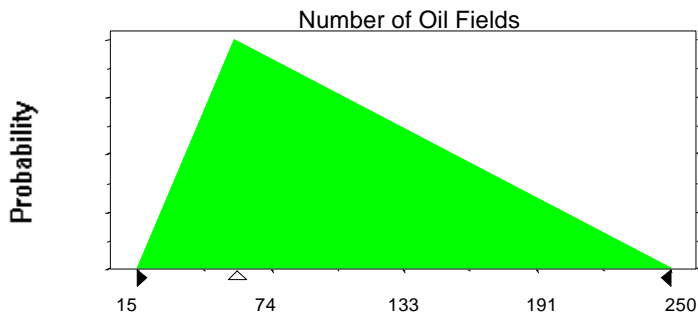
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	15
Likeliest	59
Maximum	250

Selected range is from 15 to 250
Mean value in simulation was 108



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:

Mean	52.89
Standard Deviation	396.08

Shifted parameters

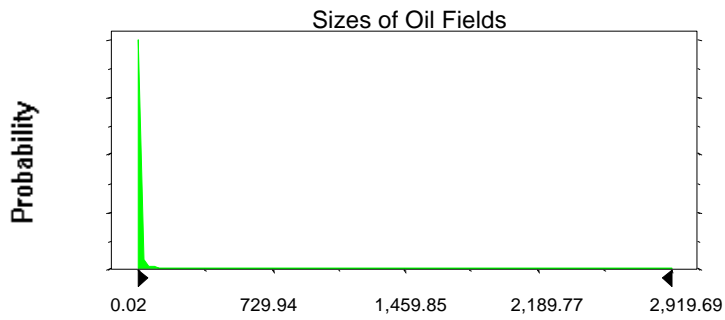
53.89
396.08

Selected range is from 0.00 to 3,499.00
Mean value in simulation was 45.29

1.00 to 3,500.00
46.29

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Assumption: Sizes of Oil Fields (cont'd)



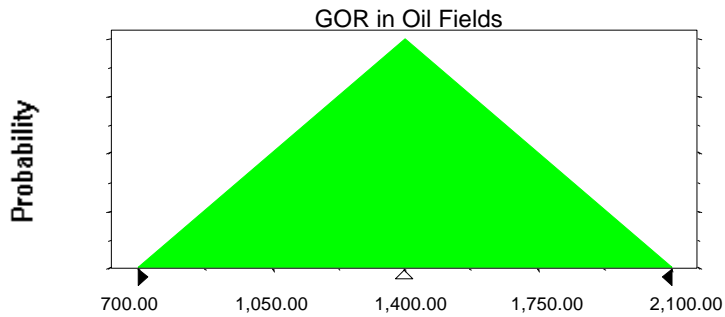
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	700.00
Likeliest	1,400.00
Maximum	2,100.00

Selected range is from 700.00 to 2,100.00

Mean value in simulation was 1,400.11



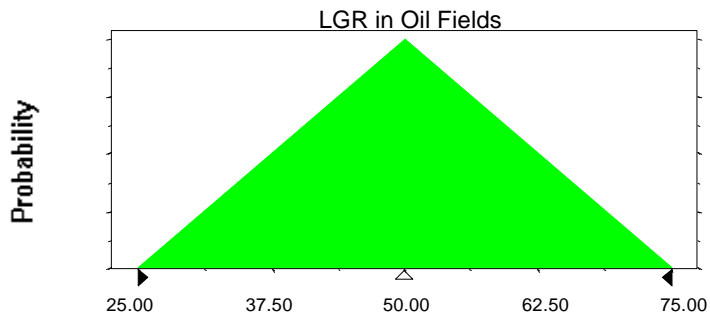
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Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	25.00
Likeliest	50.00
Maximum	75.00

Selected range is from 25.00 to 75.00
Mean value in simulation was 50.08



Assumption: Number of Gas Fields

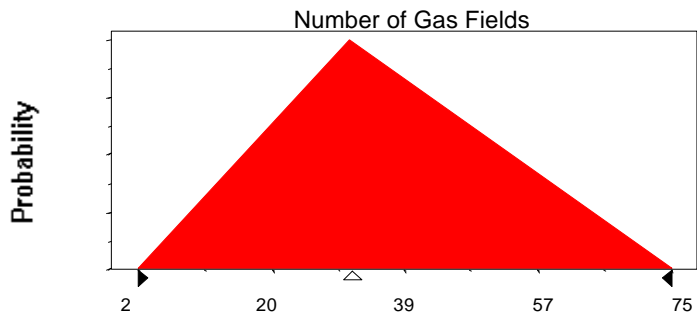
Triangular distribution with parameters:

Minimum	2
Likeliest	31
Maximum	75

Selected range is from 2 to 75
Mean value in simulation was 36

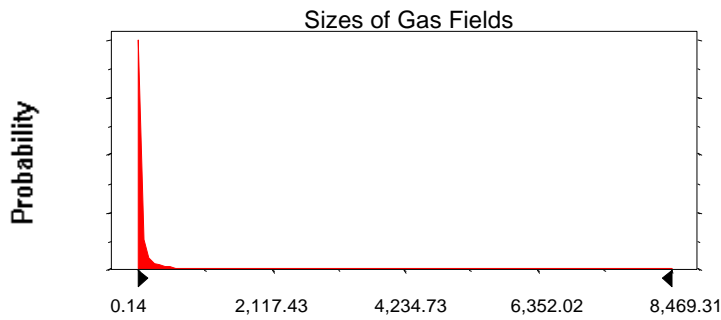
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Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:	Shifted parameters	
Mean	184.53	190.53
Standard Deviation	984.42	984.42
Selected range is from 0.00 to 9,994.00	6.00 to 10,000.00	
Mean value in simulation was 161.77	167.77	



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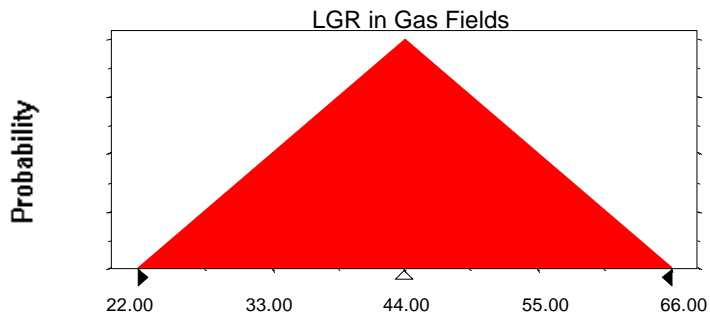
Assumption: LGR in Gas Fields

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 44.05



End of Assumptions

Simulation started on 10/8/99 at 9:37:16

Simulation stopped on 10/8/99 at 10:48:11