Go to Table of Contents

Go to index map

Main Basin Platform, Assessment Unit 10080102
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	5	1.00	2,462	4,661	8,298	4,938	1,579	3,208	6,144	3,452	85	188	393	207	228	527	1,168	589
Gas Fields	30						3,872	10,157	21,222	11,062	143	396	902	443	692	1,776	4,855	2,125
Total		1.00	2,462	4,661	8,298	4,938	5,451	13,365	27,366	14,515	228	585	1,295	650				

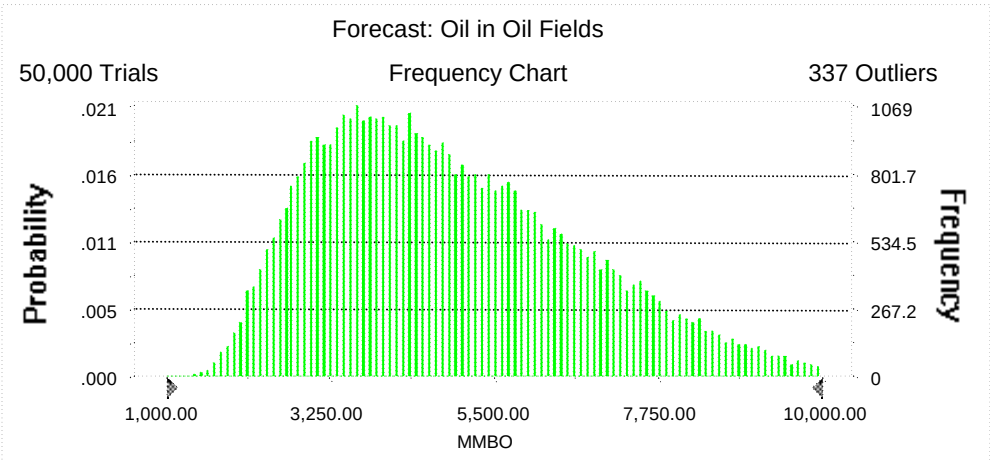
10080102
Main Basin Platform
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 1,000.00 to 10,000.00 MMBO
Entire range is from 1,148.85 to 13,062.25 MMBO
After 50,000 trials, the standard error of the mean is 8.08

Statistics:	Value
Trials	50000
Mean	4,937.50
Median	4,661.02
Mode	---
Standard Deviation	1,807.03
Variance	3,265,346.41
Skewness	0.64
Kurtosis	3.00
Coefficient of Variability	0.37
Range Minimum	1,148.85
Range Maximum	13,062.25
Range Width	11,913.41
Mean Standard Error	8.08



10080102
Main Basin Platform
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	1,148.85
95%	2,462.36
90%	2,805.38
85%	3,068.55
80%	3,308.69
75%	3,535.74
70%	3,749.93
65%	3,973.62
60%	4,196.55
55%	4,423.12
50%	4,661.02
45%	4,912.02
40%	5,184.39
35%	5,470.93
30%	5,768.41
25%	6,098.60
20%	6,487.85
15%	6,933.34
10%	7,490.86
5%	8,297.92
0%	13,062.25

End of Forecast

10080102
Main Basin Platform
Monte Carlo Results

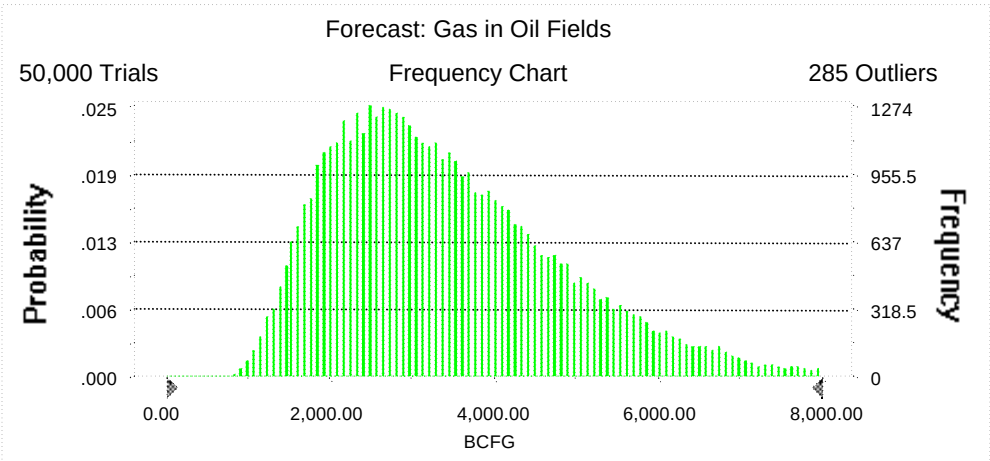
Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 8,000.00 BCFG
Entire range is from 648.38 to 11,440.90 BCFG
After 50,000 trials, the standard error of the mean is 6.35

Statistics:

	Value
Trials	50000
Mean	3,452.14
Median	3,208.12
Mode	---
Standard Deviation	1,420.34
Variance	2,017,361.01
Skewness	0.86
Kurtosis	3.68
Coefficient of Variability	0.41
Range Minimum	648.38
Range Maximum	11,440.90
Range Width	10,792.52
Mean Standard Error	6.35



10080102
Main Basin Platform
Monte Carlo Results

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	648.38
95%	1,579.20
90%	1,838.33
85%	2,029.29
80%	2,207.12
75%	2,379.96
70%	2,545.71
65%	2,704.78
60%	2,865.75
55%	3,029.99
50%	3,208.12
45%	3,394.99
40%	3,588.09
35%	3,800.59
30%	4,033.94
25%	4,286.17
20%	4,586.47
15%	4,948.88
10%	5,412.89
5%	6,144.27
0%	11,440.90

End of Forecast

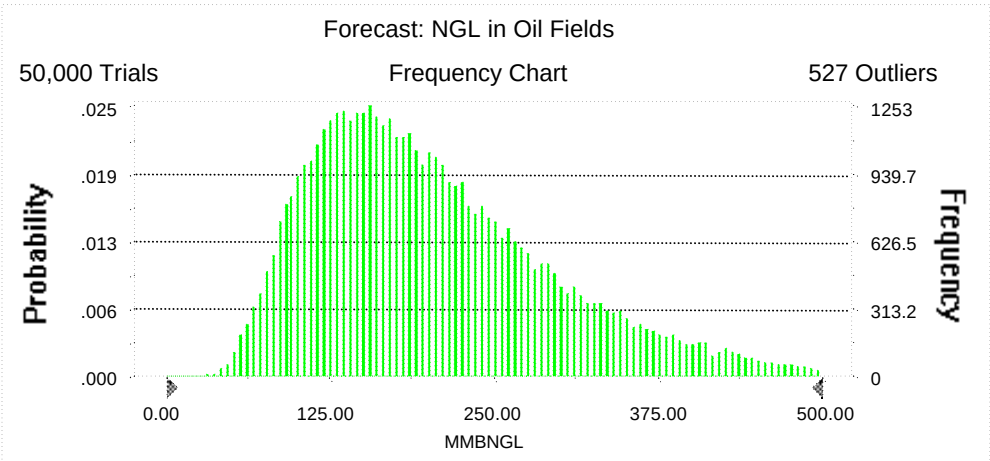
10080102
Main Basin Platform
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 500.00 MMBNGL
Entire range is from 30.02 to 934.49 MMBNGL
After 50,000 trials, the standard error of the mean is 0.43

Statistics:	Value
Trials	50000
Mean	207.12
Median	188.38
Mode	---
Standard Deviation	96.79
Variance	9,368.56
Skewness	1.09
Kurtosis	4.62
Coefficient of Variability	0.47
Range Minimum	30.02
Range Maximum	934.49
Range Width	904.47
Mean Standard Error	0.43



10080102
Main Basin Platform
Monte Carlo Results

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	30.02
95%	85.36
90%	101.10
85%	113.98
80%	125.24
75%	135.62
70%	145.99
65%	156.19
60%	166.42
55%	177.19
50%	188.38
45%	200.42
40%	212.82
35%	226.50
30%	242.03
25%	259.55
20%	279.49
15%	305.11
10%	339.81
5%	393.38
0%	934.49

End of Forecast

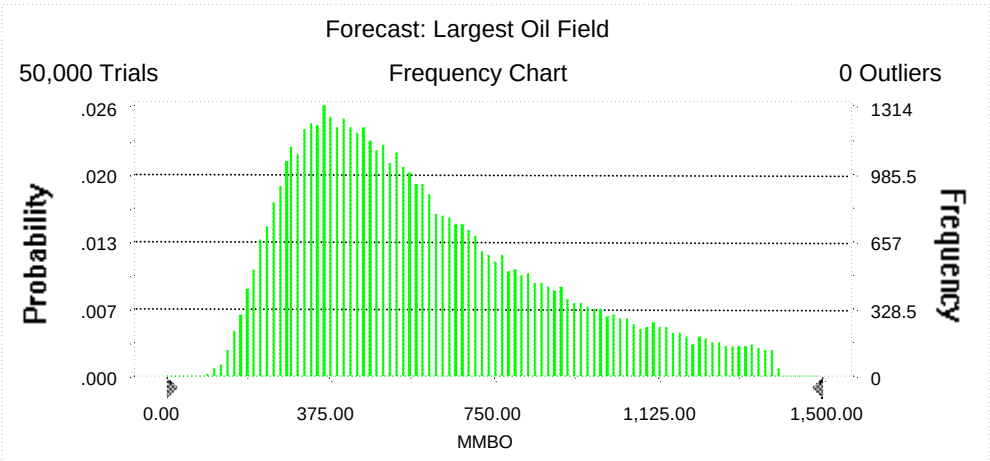
10080102
Main Basin Platform
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 1,500.00 MMBO
Entire range is from 69.13 to 1,399.97 MMBO
After 50,000 trials, the standard error of the mean is 1.28

Statistics:	Value
Trials	50000
Mean	588.74
Median	526.70
Mode	---
Standard Deviation	285.38
Variance	81,444.17
Skewness	0.79
Kurtosis	2.93
Coefficient of Variability	0.48
Range Minimum	69.13
Range Maximum	1,399.97
Range Width	1,330.84
Mean Standard Error	1.28



Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	69.13
95%	227.57
90%	271.46
85%	306.06
80%	337.71
75%	367.89
70%	397.40
65%	428.35
60%	459.31
55%	492.54
50%	526.70
45%	562.54
40%	602.47
35%	648.74
30%	699.17
25%	758.60
20%	828.98
15%	912.52
10%	1,021.75
5%	1,168.07
0%	1,399.97

End of Forecast

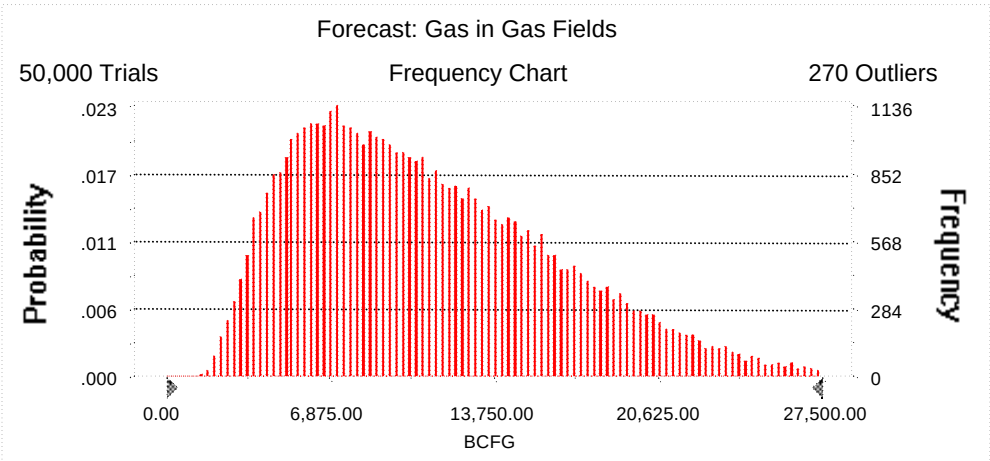
10080102
Main Basin Platform
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 27,500.00 BCFG
Entire range is from 1,159.14 to 38,898.60 BCFG
After 50,000 trials, the standard error of the mean is 24.31

Statistics:	Value
Trials	50000
Mean	11,062.38
Median	10,156.89
Mode	---
Standard Deviation	5,435.95
Variance	29,549,521.64
Skewness	0.75
Kurtosis	3.25
Coefficient of Variability	0.49
Range Minimum	1,159.14
Range Maximum	38,898.60
Range Width	37,739.46
Mean Standard Error	24.31



10080102
Main Basin Platform
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	1,159.14
95%	3,871.77
90%	4,745.81
85%	5,487.07
80%	6,148.52
75%	6,792.26
70%	7,410.01
65%	8,067.40
60%	8,745.74
55%	9,431.53
50%	10,156.89
45%	10,893.87
40%	11,705.25
35%	12,581.50
30%	13,504.29
25%	14,524.00
20%	15,652.31
15%	17,021.18
10%	18,731.53
5%	21,221.66
0%	38,898.60

End of Forecast

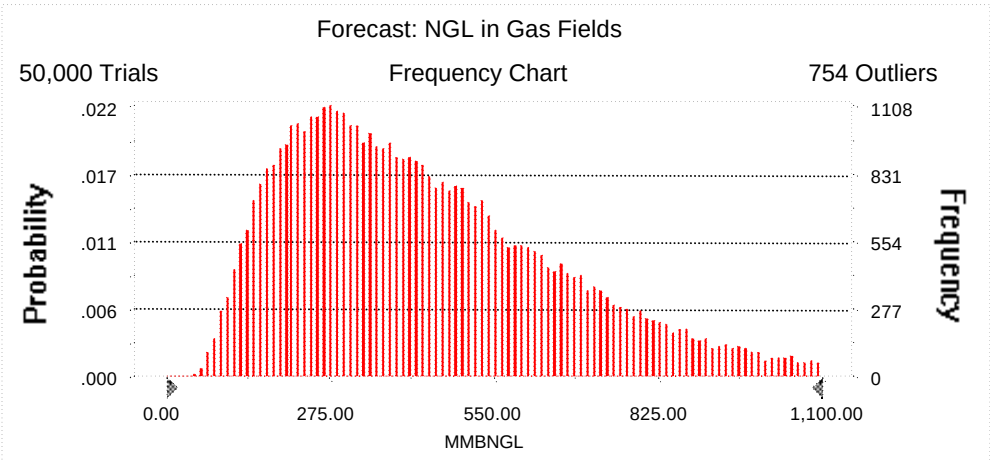
10080102
Main Basin Platform
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,100.00 MMBNGL
Entire range is from 30.76 to 1,824.63 MMBNGL
After 50,000 trials, the standard error of the mean is 1.07

Statistics:	Value
Trials	50000
Mean	442.64
Median	396.25
Mode	---
Standard Deviation	239.06
Variance	57,149.23
Skewness	1.01
Kurtosis	4.07
Coefficient of Variability	0.54
Range Minimum	30.76
Range Maximum	1,824.63
Range Width	1,793.87
Mean Standard Error	1.07



10080102
Main Basin Platform
Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	30.76
95%	142.93
90%	177.83
85%	207.61
80%	234.37
75%	260.45
70%	285.53
65%	311.27
60%	338.27
55%	366.50
50%	396.25
45%	427.09
40%	460.10
35%	495.59
30%	533.09
25%	578.14
20%	630.32
15%	691.71
10%	772.97
5%	901.79
0%	1,824.63

End of Forecast

10080102
Main Basin Platform
Monte Carlo Results

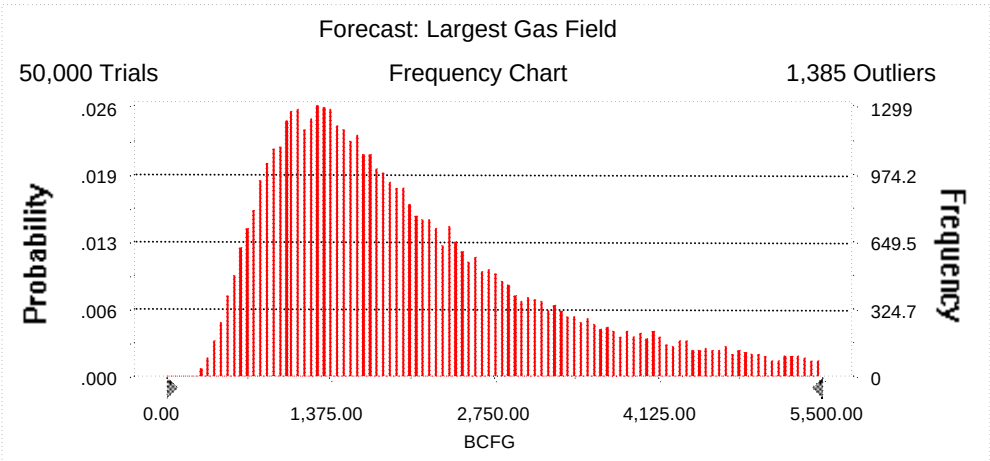
Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 5,500.00 BCFG
Entire range is from 194.30 to 6,997.99 BCFG
After 50,000 trials, the standard error of the mean is 5.73

Statistics:

	Value
Trials	50000
Mean	2,125.09
Median	1,776.28
Mode	---
Standard Deviation	1,281.70
Variance	1,642,761.27
Skewness	1.31
Kurtosis	4.51
Coefficient of Variability	0.60
Range Minimum	194.30
Range Maximum	6,997.99
Range Width	6,803.69
Mean Standard Error	5.73



10080102
Main Basin Platform
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	194.30
95%	692.20
90%	849.77
85%	975.91
80%	1,087.49
75%	1,198.02
70%	1,307.12
65%	1,412.60
60%	1,527.74
55%	1,646.47
50%	1,776.28
45%	1,918.07
40%	2,071.65
35%	2,252.06
30%	2,450.68
25%	2,695.16
20%	2,999.91
15%	3,397.81
10%	3,973.46
5%	4,854.56
0%	6,997.99

End of Forecast

10080102
Main Basin Platform
Monte Carlo Results

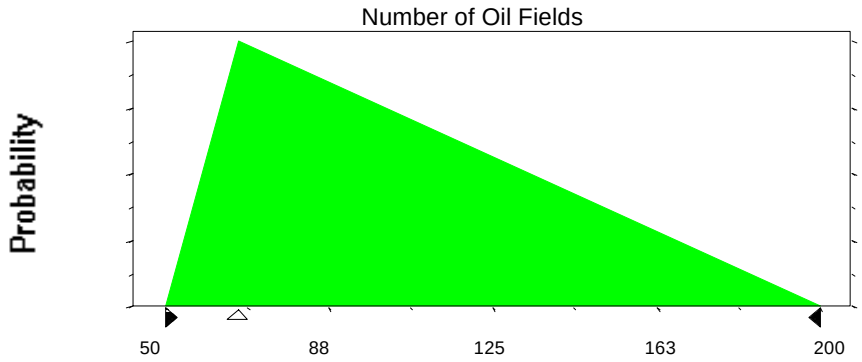
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	50
Likeliest	67
Maximum	200

Selected range is from 50 to 200
Mean value in simulation was 106

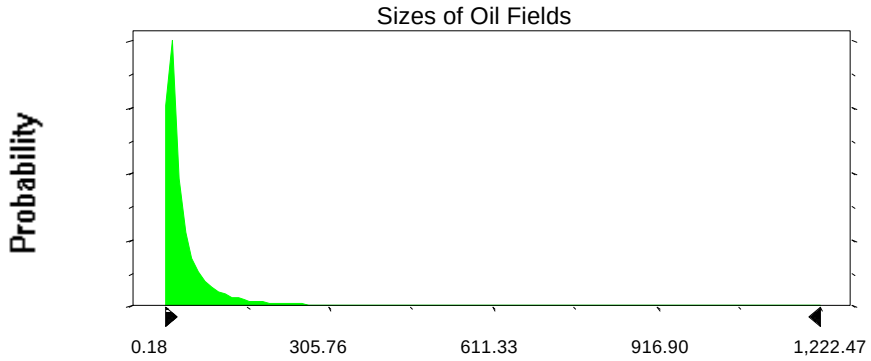


Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	43.99	48.99
Standard Deviation	121.26	121.26
Selected range is from	0.00 to 1,395.00	5.00 to 1,400.00
Mean value in simulation was	42.18	47.18

10080102
Main Basin Platform
Monte Carlo Results

Assumption: Sizes of Oil Fields (cont'd)

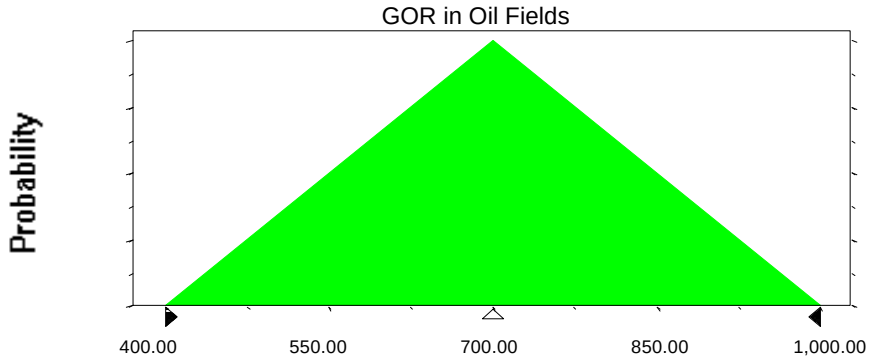


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	400.00
Likeliest	700.00
Maximum	1,000.00

Selected range is from 400.00 to 1,000.00
Mean value in simulation was 699.01



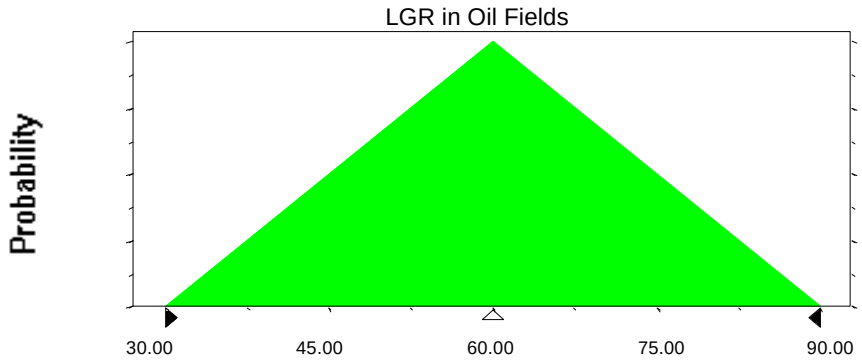
10080102
Main Basin Platform
Monte Carlo Results

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 60.00



Assumption: Number of Gas Fields

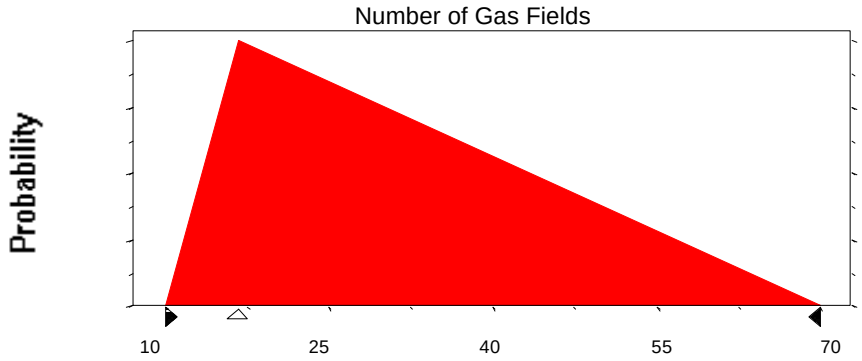
Triangular distribution with parameters:

Minimum	10
Likeliest	17
Maximum	70

Selected range is from 10 to 70
Mean value in simulation was 32

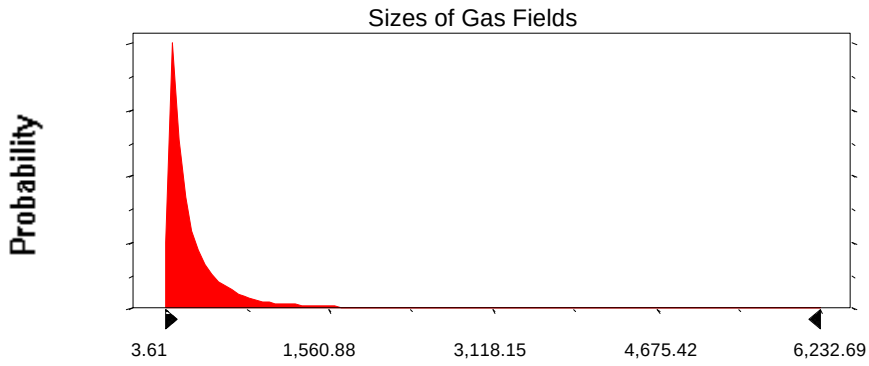
10080102
Main Basin Platform
Monte Carlo Results

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	324.51	354.51
Standard Deviation	622.52	622.52
Selected range is from 0.00 to 6,970.00		30.00 to 7,000.00
Mean value in simulation was 315.13		345.13



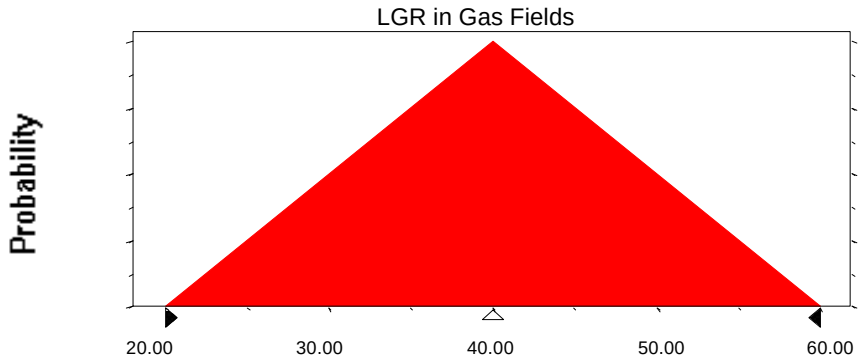
10080102
Main Basin Platform
Monte Carlo Results

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 40.04



End of Assumptions

Simulation started on 4/20/99 at 15:37:52
Simulation stopped on 4/20/99 at 16:39:58