Go to Table of Contents

Go to index map

Brunei-Sabah Turbidites, Assessment Unit 37010102
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	382	1,185	2,341	1,252	984	3,230	7,001	3,509	55	188	445	210	77	221	663	272
Gas Fields	30						892	3,391	7,783	3,740	37	145	358	164	262	889	3,219	1,183
Total		1.00	382	1,185	2,341	1,252	1,876	6,621	14,784	7,249	92	333	803	375				

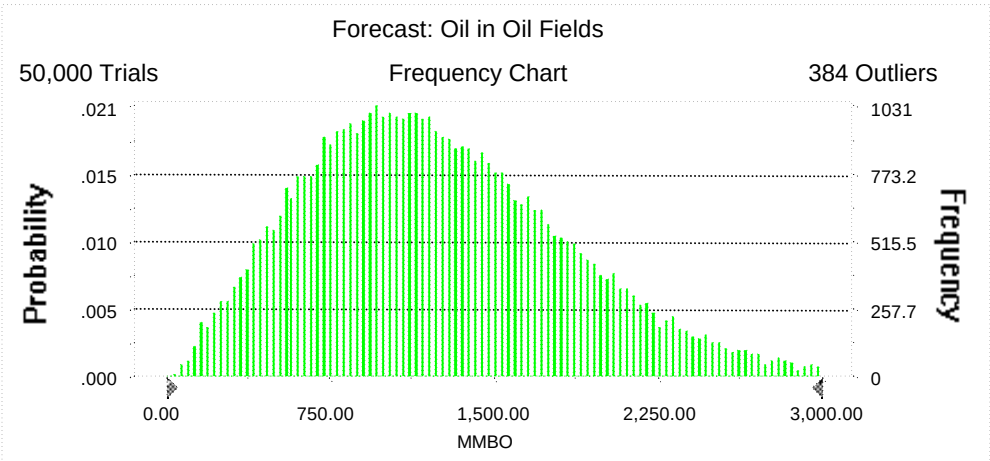
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 3,000.00 MMBO
Entire range is from 37.31 to 4,593.06 MMBO
After 50,000 trials, the standard error of the mean is 2.70

Statistics:	Value
Trials	50000
Mean	1,252.40
Median	1,185.25
Mode	---
Standard Deviation	604.20
Variance	365,058.52
Skewness	0.63
Kurtosis	3.37
Coefficient of Variability	0.48
Range Minimum	37.31
Range Maximum	4,593.06
Range Width	4,555.74
Mean Standard Error	2.70



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	37.31
95%	382.38
90%	521.00
85%	627.16
80%	723.56
75%	805.57
70%	884.75
65%	960.92
60%	1,035.52
55%	1,110.93
50%	1,185.25
45%	1,264.12
40%	1,347.35
35%	1,434.79
30%	1,525.99
25%	1,629.57
20%	1,744.28
15%	1,884.88
10%	2,064.27
5%	2,340.59
0%	4,593.06

End of Forecast

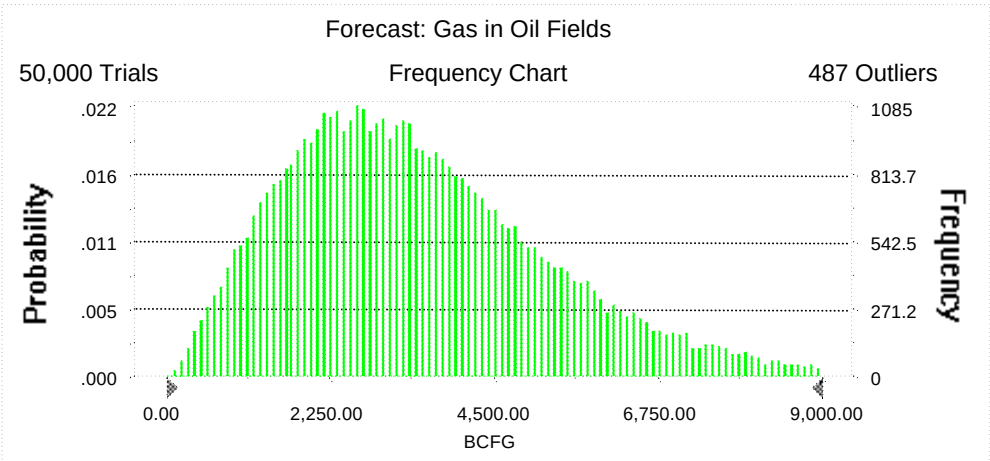
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 9,000.00 BCFG
Entire range is from 88.01 to 17,050.60 BCFG
After 50,000 trials, the standard error of the mean is 8.36

Statistics:	Value
Trials	50000
Mean	3,508.67
Median	3,230.16
Mode	---
Standard Deviation	1,868.79
Variance	3,492,386.24
Skewness	0.92
Kurtosis	4.25
Coefficient of Variability	0.53
Range Minimum	88.01
Range Maximum	17,050.60
Range Width	16,962.59
Mean Standard Error	8.36



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	88.01
95%	983.63
90%	1,351.80
85%	1,645.61
80%	1,902.69
75%	2,138.28
70%	2,352.25
65%	2,572.87
60%	2,780.80
55%	3,003.41
50%	3,230.16
45%	3,454.32
40%	3,706.73
35%	3,963.61
30%	4,251.67
25%	4,571.57
20%	4,955.05
15%	5,419.28
10%	6,012.61
5%	7,000.60
0%	17,050.60

End of Forecast

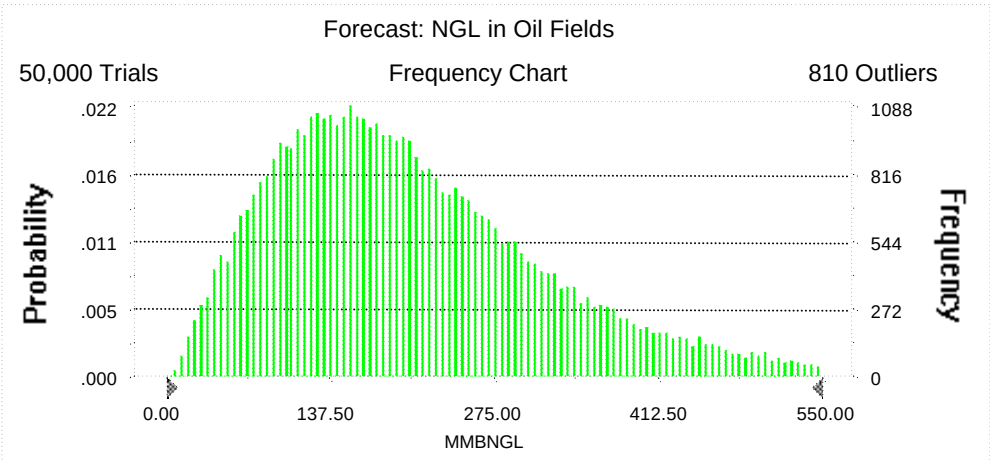
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 550.00 MMBNGL
Entire range is from 4.19 to 1,134.73 MMBNGL
After 50,000 trials, the standard error of the mean is 0.55

Statistics:	Value
Trials	50000
Mean	210.50
Median	188.17
Mode	---
Standard Deviation	122.20
Variance	14,932.46
Skewness	1.15
Kurtosis	5.02
Coefficient of Variability	0.58
Range Minimum	4.19
Range Maximum	1,134.73
Range Width	1,130.54
Mean Standard Error	0.55



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	4.19
95%	55.00
90%	76.04
85%	92.87
80%	107.66
75%	121.76
70%	134.95
65%	148.18
60%	161.05
55%	174.39
50%	188.17
45%	202.59
40%	217.57
35%	235.03
30%	253.64
25%	274.48
20%	299.28
15%	330.41
10%	373.59
5%	445.34
0%	1,134.73

End of Forecast

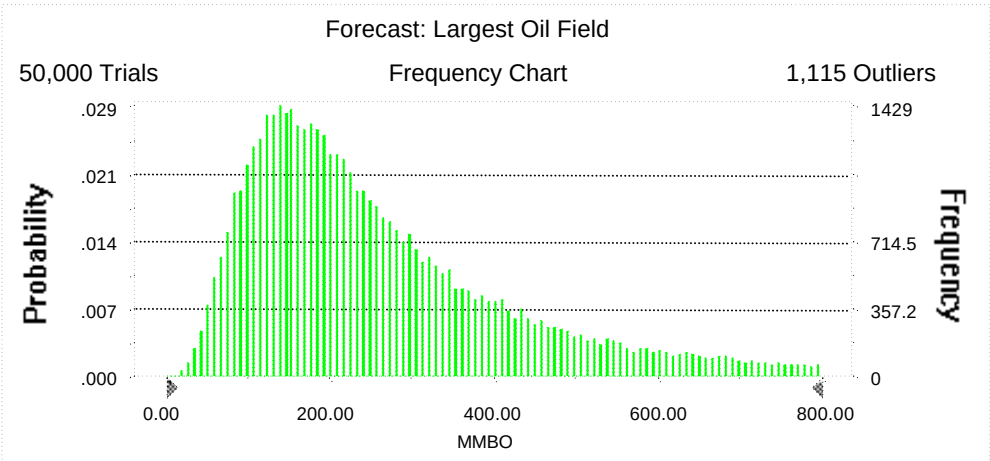
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 800.00 MMBO
Entire range is from 13.27 to 999.79 MMBO
After 50,000 trials, the standard error of the mean is 0.81

Statistics:	Value
Trials	50000
Mean	272.41
Median	220.76
Mode	---
Standard Deviation	181.48
Variance	32,934.05
Skewness	1.45
Kurtosis	5.07
Coefficient of Variability	0.67
Range Minimum	13.27
Range Maximum	999.79
Range Width	986.52
Mean Standard Error	0.81



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	13.27
95%	76.62
90%	97.72
85%	114.46
80%	129.52
75%	143.61
70%	157.91
65%	172.82
60%	187.72
55%	203.53
50%	220.76
45%	239.96
40%	261.14
35%	285.11
30%	313.23
25%	347.39
20%	390.90
15%	444.85
10%	524.98
5%	662.88
0%	999.79

End of Forecast

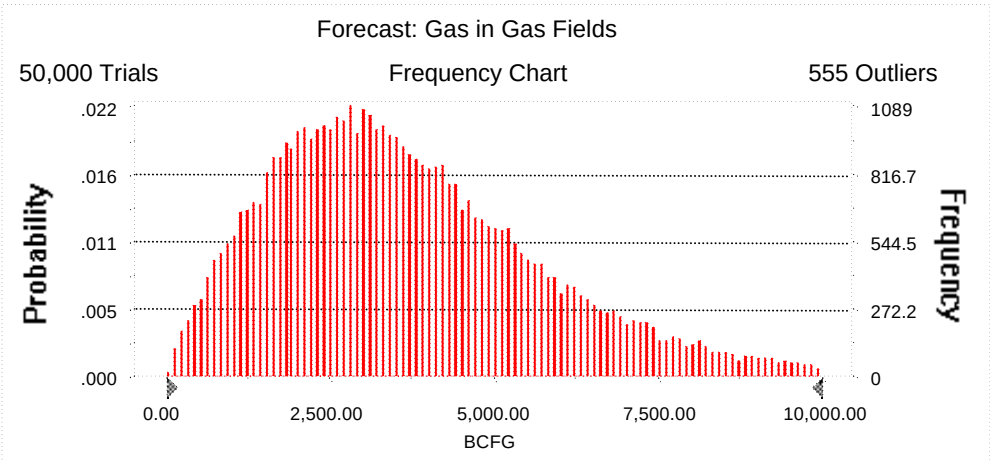
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 10,000.00 BCFG
Entire range is from 34.39 to 20,661.78 BCFG
After 50,000 trials, the standard error of the mean is 9.57

Statistics:	Value
Trials	50000
Mean	3,740.46
Median	3,390.53
Mode	---
Standard Deviation	2,140.55
Variance	4,581,967.07
Skewness	0.99
Kurtosis	4.43
Coefficient of Variability	0.57
Range Minimum	34.39
Range Maximum	20,661.78
Range Width	20,627.39
Mean Standard Error	9.57



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	34.39
95%	891.89
90%	1,304.89
85%	1,634.56
80%	1,909.18
75%	2,170.98
70%	2,423.44
65%	2,665.24
60%	2,905.02
55%	3,146.65
50%	3,390.53
45%	3,648.35
40%	3,932.21
35%	4,229.96
30%	4,551.19
25%	4,930.07
20%	5,349.83
15%	5,884.81
10%	6,615.55
5%	7,783.39
0%	20,661.78

End of Forecast

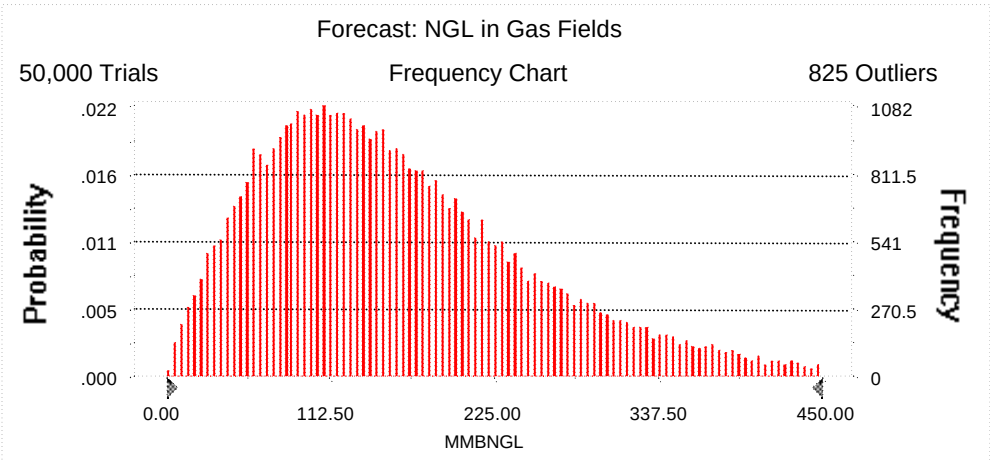
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 450.00 MMBNGL
Entire range is from 1.02 to 1,339.90 MMBNGL
After 50,000 trials, the standard error of the mean is 0.45

Statistics:	Value
Trials	50000
Mean	164.31
Median	145.05
Mode	---
Standard Deviation	101.55
Variance	10,312.59
Skewness	1.24
Kurtosis	5.59
Coefficient of Variability	0.62
Range Minimum	1.02
Range Maximum	1,339.90
Range Width	1,338.88
Mean Standard Error	0.45



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	1.02
95%	36.75
90%	54.05
85%	67.21
80%	79.59
75%	90.81
70%	101.62
65%	112.03
60%	122.78
55%	133.75
50%	145.05
45%	156.82
40%	169.60
35%	183.26
30%	198.83
25%	216.39
20%	237.10
15%	263.88
10%	299.53
5%	358.00
0%	1,339.90

End of Forecast

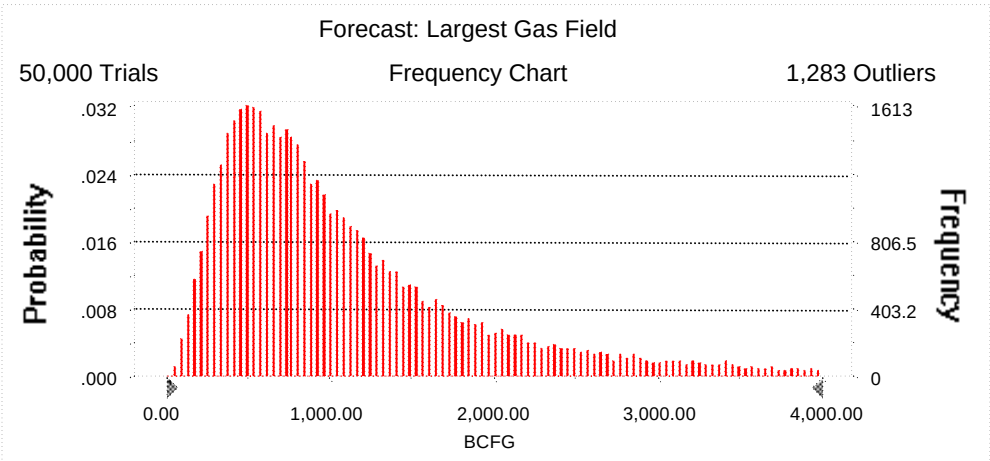
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 4,000.00 BCFG
Entire range is from 34.39 to 5,999.51 BCFG
After 50,000 trials, the standard error of the mean is 4.29

Statistics:	Value
Trials	50000
Mean	1,182.83
Median	889.47
Mode	---
Standard Deviation	960.10
Variance	921,801.39
Skewness	1.96
Kurtosis	7.52
Coefficient of Variability	0.81
Range Minimum	34.39
Range Maximum	5,999.51
Range Width	5,965.12
Mean Standard Error	4.29



37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	34.39
95%	261.89
90%	349.23
85%	418.30
80%	481.52
75%	543.55
70%	606.50
65%	674.31
60%	742.89
55%	813.48
50%	889.47
45%	978.32
40%	1,076.36
35%	1,185.25
30%	1,317.87
25%	1,478.34
20%	1,685.15
15%	1,971.26
10%	2,407.79
5%	3,219.48
0%	5,999.51

End of Forecast

37010102
Brunei-Sabah Turbidites
Monte Carlo Results

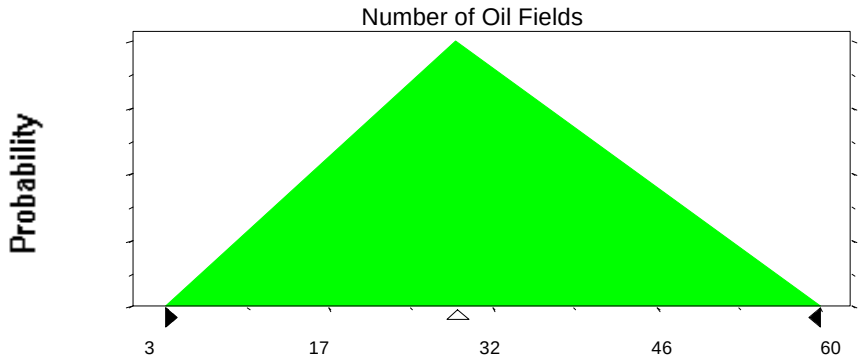
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	3
Likeliest	28
Maximum	60

Selected range is from 3 to 60
Mean value in simulation was 30

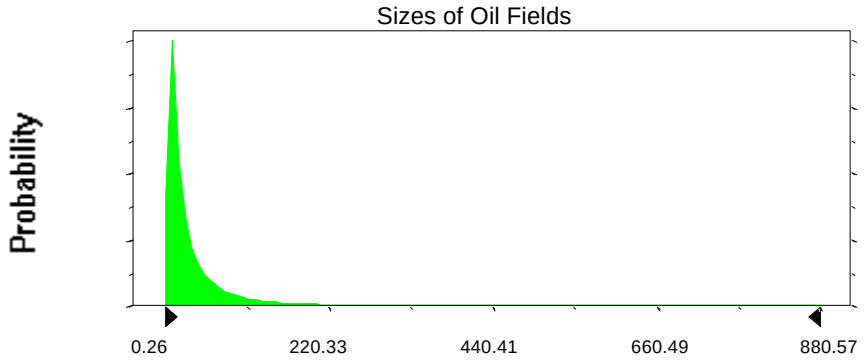


Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	37.69	42.69
Standard Deviation	86.89	86.89
Selected range is from	0.00 to 995.00	5.00 to 1,000.00
Mean value in simulation was	35.91	40.91

37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Assumption: Sizes of Oil Fields (cont'd)

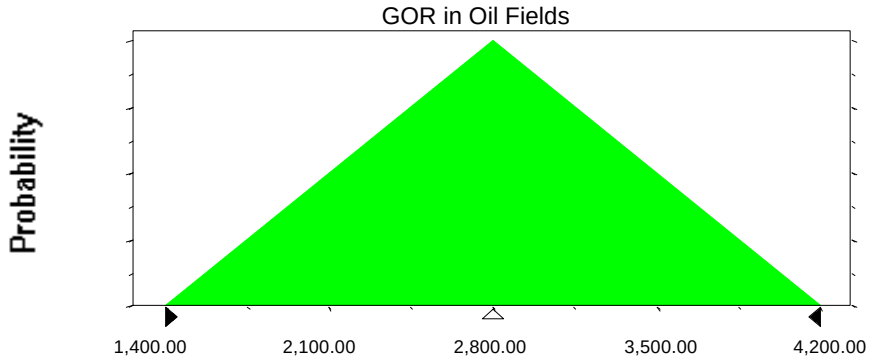


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,400.00
Likeliest	2,800.00
Maximum	4,200.00

Selected range is from 1,400.00 to 4,200.00
Mean value in simulation was 2,802.18



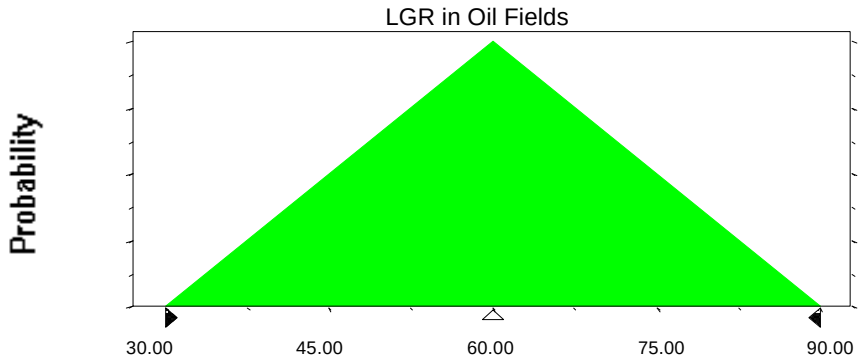
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

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 60.01



Assumption: Number of Gas Fields

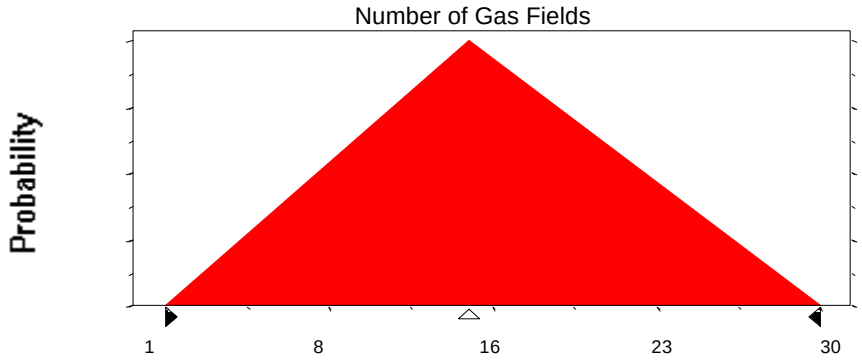
Triangular distribution with parameters:

Minimum	1
Likeliest	14
Maximum	30

Selected range is from 1 to 30
Mean value in simulation was 15

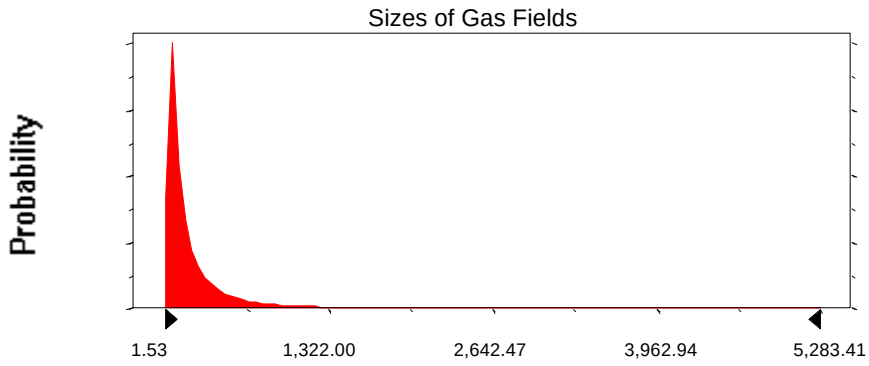
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	226.16	256.15
Standard Deviation	521.35	521.35
Selected range is from 0.00 to 5,970.00		30.00 to 6,000.00
Mean value in simulation was 215.48		245.48



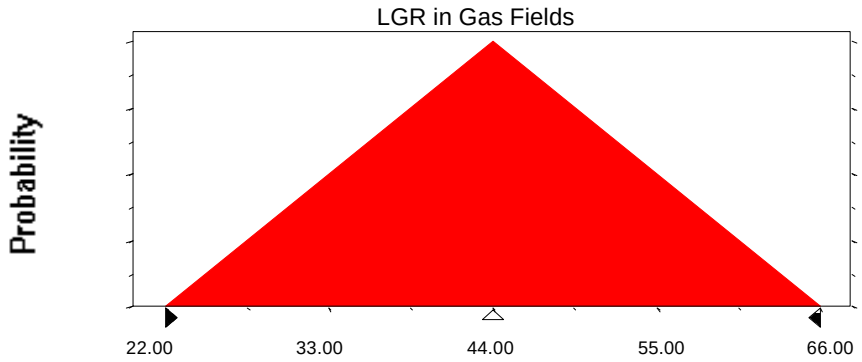
37010102
Brunei-Sabah Turbidites
Monte Carlo Results

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 43.97



End of Assumptions

Simulation started on 7/20/99 at 11:34:59
Simulation stopped on 7/20/99 at 12:00:07