Go to Table of Contents

Go to index map

South Sumatra, Assessment Unit 38280101
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	205	442	824	469	368	862	1,759	938	20	50	112	56	27	69	186	82
Gas Fields	6						6,583	16,652	30,240	17,312	59	164	372	183	827	2,130	4,954	2,407
Total		1.00	205	442	824	469	6,951	17,513	31,999	18,250	79	214	484	239				

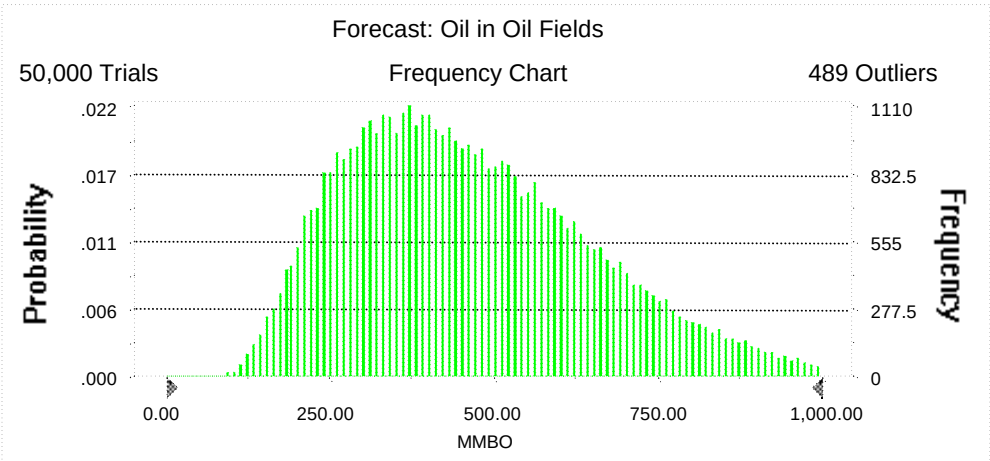
38280101
South Sumatra
Monte Carlo Results

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,000.00 MMBO
Entire range is from 72.72 to 1,640.42 MMBO
After 50,000 trials, the standard error of the mean is 0.86

Statistics:	Value
Trials	50000
Mean	468.82
Median	441.59
Mode	---
Standard Deviation	192.35
Variance	36,999.42
Skewness	0.70
Kurtosis	3.35
Coefficient of Variability	0.41
Range Minimum	72.72
Range Maximum	1,640.42
Range Width	1,567.70
Mean Standard Error	0.86



38280101
South Sumatra
Monte Carlo Results

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	72.72
95%	204.77
90%	241.93
85%	270.80
80%	297.83
75%	321.96
70%	345.69
65%	369.83
60%	393.39
55%	417.03
50%	441.59
45%	468.06
40%	495.08
35%	524.10
30%	555.76
25%	589.36
20%	627.76
15%	673.94
10%	732.27
5%	824.47
0%	1,640.42

End of Forecast

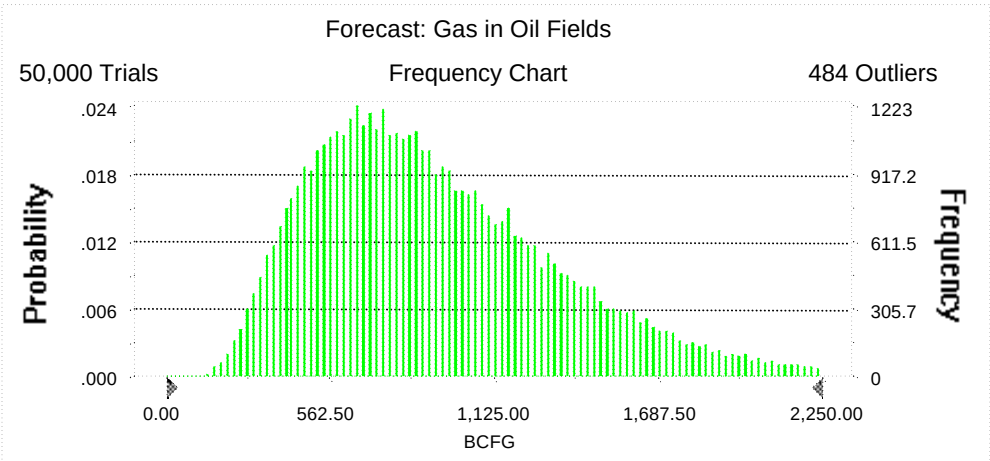
38280101
South Sumatra
Monte Carlo Results

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 2,250.00 BCFG
Entire range is from 94.64 to 3,512.52 BCFG
After 50,000 trials, the standard error of the mean is 1.95

Statistics:	Value
Trials	50000
Mean	938.49
Median	861.69
Mode	---
Standard Deviation	436.83
Variance	190,824.45
Skewness	0.95
Kurtosis	4.11
Coefficient of Variability	0.47
Range Minimum	94.64
Range Maximum	3,512.52
Range Width	3,417.89
Mean Standard Error	1.95



38280101
South Sumatra
Monte Carlo Results

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	94.64
95%	368.00
90%	445.97
85%	507.92
80%	563.10
75%	614.46
70%	663.14
65%	711.19
60%	758.81
55%	809.61
50%	861.69
45%	914.68
40%	974.59
35%	1,039.22
30%	1,108.99
25%	1,187.44
20%	1,277.75
15%	1,389.50
10%	1,534.68
5%	1,759.17
0%	3,512.52

End of Forecast

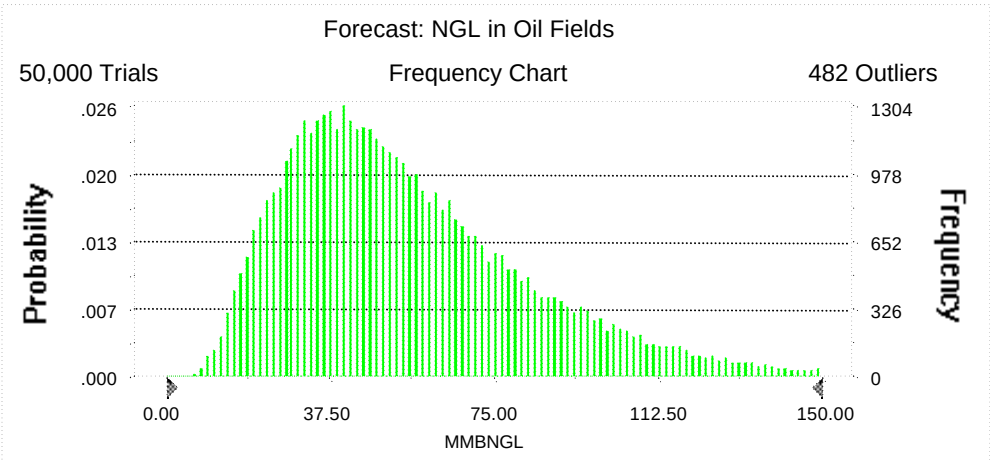
38280101
South Sumatra
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 150.00 MMBNGL
Entire range is from 4.86 to 291.04 MMBNGL
After 50,000 trials, the standard error of the mean is 0.13

Statistics:	Value
Trials	50000
Mean	56.32
Median	50.36
Mode	---
Standard Deviation	29.33
Variance	860.01
Skewness	1.20
Kurtosis	5.09
Coefficient of Variability	0.52
Range Minimum	4.86
Range Maximum	291.04
Range Width	286.17
Mean Standard Error	0.13



38280101
South Sumatra
Monte Carlo Results

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	4.86
95%	20.05
90%	24.67
85%	28.57
80%	31.85
75%	34.97
70%	37.98
65%	40.98
60%	43.96
55%	47.10
50%	50.36
45%	53.82
40%	57.57
35%	61.78
30%	66.21
25%	71.45
20%	77.77
15%	85.58
10%	96.04
5%	112.48
0%	291.04

End of Forecast

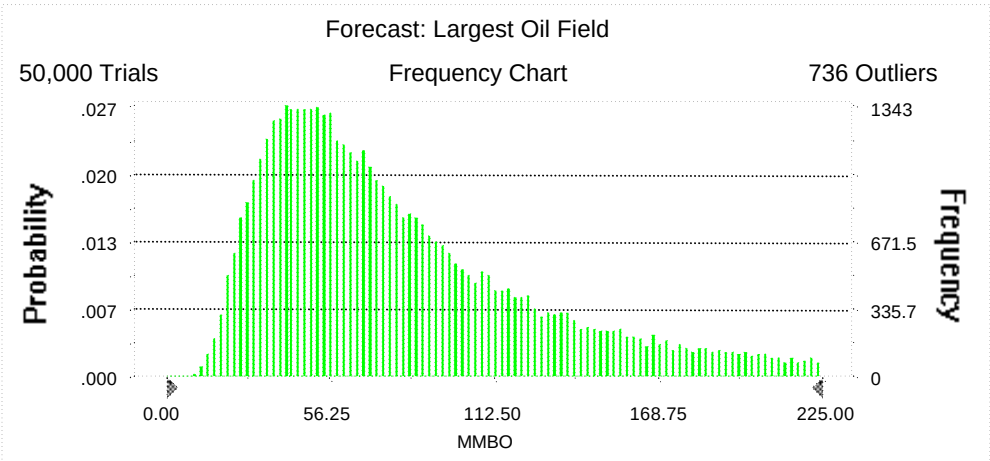
38280101
South Sumatra
Monte Carlo Results

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 225.00 MMBO
Entire range is from 6.78 to 249.97 MMBO
After 50,000 trials, the standard error of the mean is 0.22

Statistics:	Value
Trials	50000
Mean	81.99
Median	68.82
Mode	---
Standard Deviation	48.60
Variance	2,362.43
Skewness	1.18
Kurtosis	3.99
Coefficient of Variability	0.59
Range Minimum	6.78
Range Maximum	249.97
Range Width	243.19
Mean Standard Error	0.22



38280101
South Sumatra
Monte Carlo Results

Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	6.78
95%	26.76
90%	32.72
85%	37.46
80%	41.77
75%	45.97
70%	50.26
65%	54.57
60%	58.80
55%	63.70
50%	68.82
45%	74.27
40%	80.55
35%	87.56
30%	95.56
25%	105.39
20%	117.43
15%	132.76
10%	153.67
5%	186.12
0%	249.97

End of Forecast

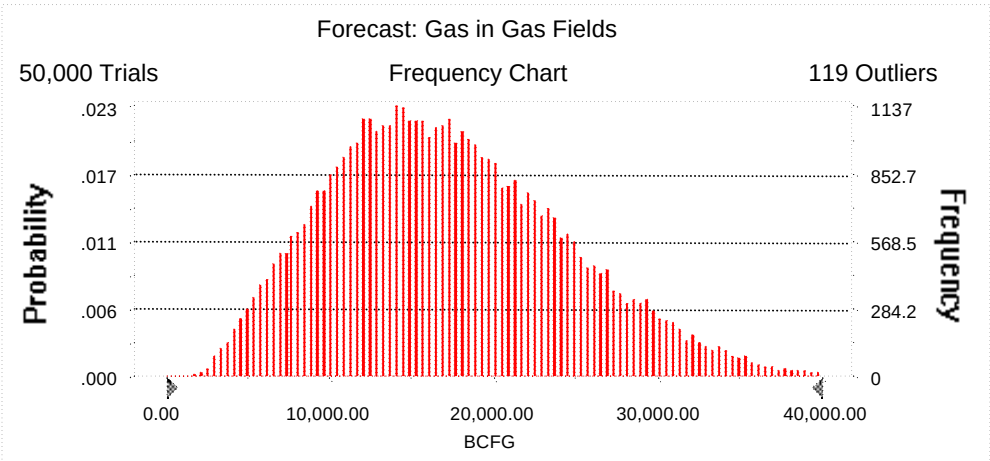
38280101
South Sumatra
Monte Carlo Results

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 40,000.00 BCFG
Entire range is from 1,362.74 to 51,725.94 BCFG
After 50,000 trials, the standard error of the mean is 32.22

Statistics:	Value
Trials	50000
Mean	17,311.77
Median	16,651.50
Mode	---
Standard Deviation	7,204.20
Variance	51,900,512.11
Skewness	0.47
Kurtosis	2.94
Coefficient of Variability	0.42
Range Minimum	1,362.74
Range Maximum	51,725.94
Range Width	50,363.20
Mean Standard Error	32.22



38280101
South Sumatra
Monte Carlo Results

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	1,362.74
95%	6,582.73
90%	8,396.24
85%	9,785.70
80%	10,946.99
75%	11,989.40
70%	12,915.30
65%	13,871.40
60%	14,760.35
55%	15,691.44
50%	16,651.50
45%	17,586.01
40%	18,588.81
35%	19,622.23
30%	20,769.59
25%	22,044.29
20%	23,411.53
15%	25,018.74
10%	27,141.75
5%	30,239.83
0%	51,725.94

End of Forecast

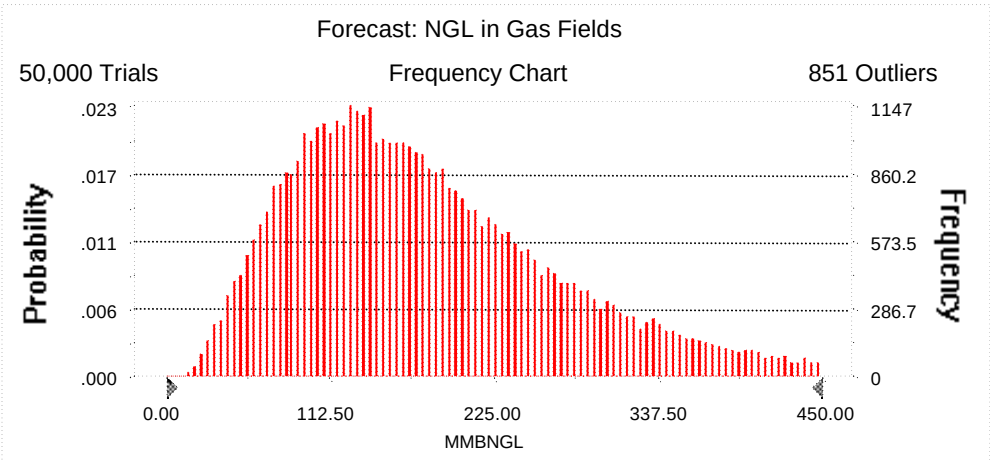
38280101
South Sumatra
Monte Carlo Results

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 450.00 MMBNGL
Entire range is from 10.61 to 801.49 MMBNGL
After 50,000 trials, the standard error of the mean is 0.44

Statistics:	Value
Trials	50000
Mean	182.81
Median	164.08
Mode	---
Standard Deviation	98.01
Variance	9,606.19
Skewness	1.09
Kurtosis	4.51
Coefficient of Variability	0.54
Range Minimum	10.61
Range Maximum	801.49
Range Width	790.88
Mean Standard Error	0.44



38280101
South Sumatra
Monte Carlo Results

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	10.61
95%	58.75
90%	75.34
85%	88.68
80%	100.34
75%	111.06
70%	121.65
65%	131.72
60%	141.85
55%	152.72
50%	164.08
45%	175.62
40%	188.01
35%	201.69
30%	217.29
25%	234.86
20%	255.21
15%	281.76
10%	316.41
5%	371.83
0%	801.49

End of Forecast

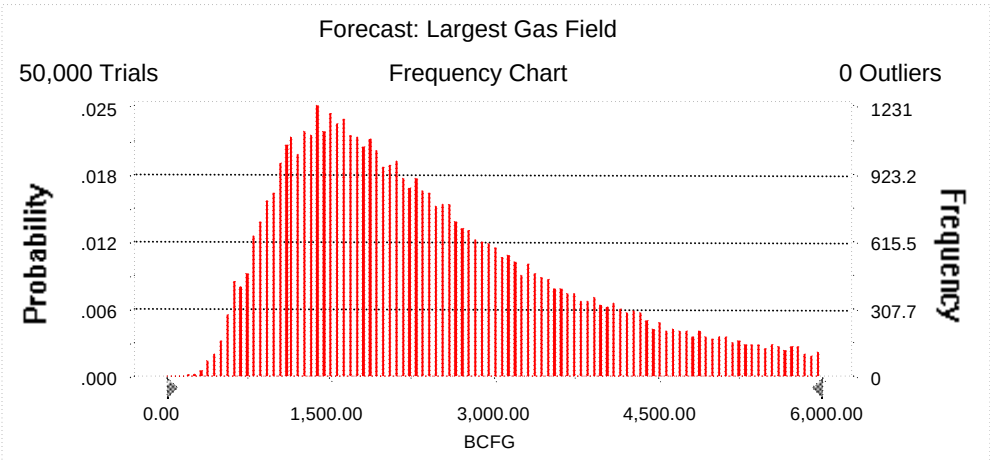
38280101
South Sumatra
Monte Carlo Results

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 6,000.00 BCFG
Entire range is from 138.15 to 5,998.94 BCFG
After 50,000 trials, the standard error of the mean is 5.60

Statistics:	Value
Trials	50000
Mean	2,406.88
Median	2,130.10
Mode	---
Standard Deviation	1,251.81
Variance	1,567,028.93
Skewness	0.80
Kurtosis	2.96
Coefficient of Variability	0.52
Range Minimum	138.15
Range Maximum	5,998.94
Range Width	5,860.79
Mean Standard Error	5.60



38280101
South Sumatra
Monte Carlo Results

Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	138.15
95%	827.38
90%	1,021.19
85%	1,169.25
80%	1,307.77
75%	1,437.35
70%	1,566.15
65%	1,695.04
60%	1,834.11
55%	1,977.16
50%	2,130.10
45%	2,297.83
40%	2,474.56
35%	2,668.87
30%	2,892.39
25%	3,153.11
20%	3,451.86
15%	3,830.06
10%	4,294.24
5%	4,953.63
0%	5,998.94

End of Forecast

38280101
South Sumatra
Monte Carlo Results

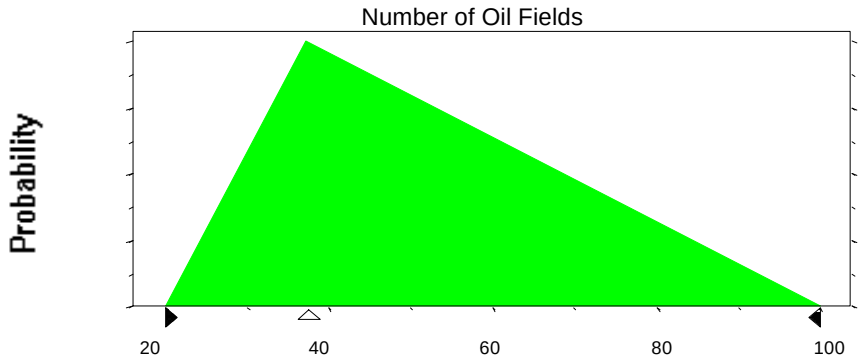
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	20
Likeliest	38
Maximum	100

Selected range is from 20 to 100
Mean value in simulation was 52

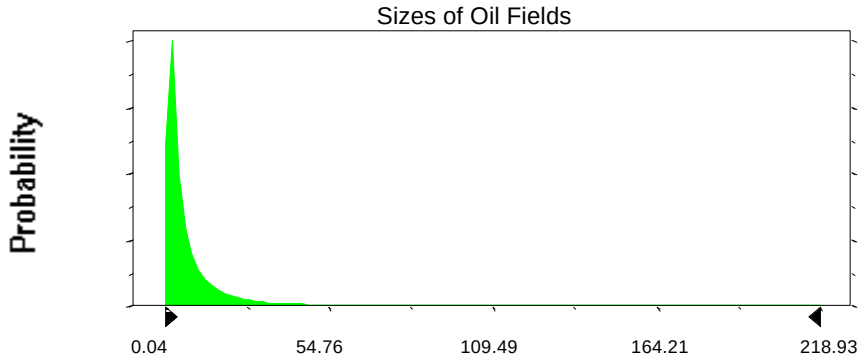


Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	8.34	9.34
Standard Deviation	21.64	21.64
Selected range is from	0.00 to 249.00	1.00 to 250.00
Mean value in simulation was	7.97	8.97

38280101
South Sumatra
Monte Carlo Results

Assumption: Sizes of Oil Fields (cont'd)

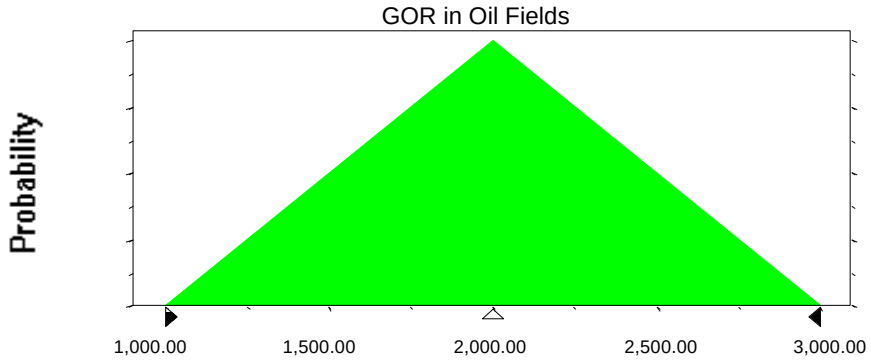


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,000.00
Likeliest	2,000.00
Maximum	3,000.00

Selected range is from 1,000.00 to 3,000.00
Mean value in simulation was 2,001.91



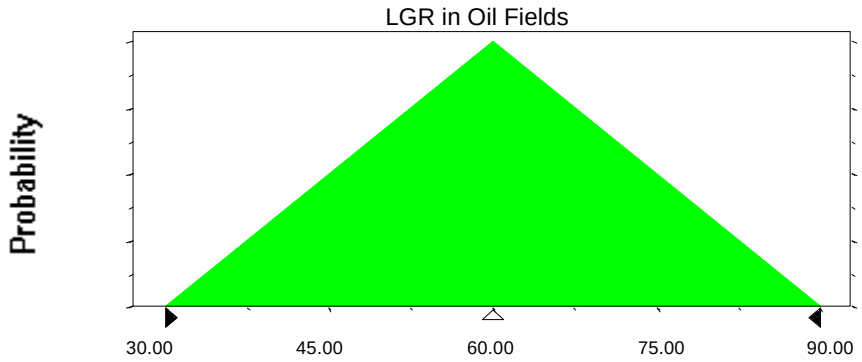
38280101
South Sumatra
Monte Carlo Results

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 59.94



Assumption: Number of Gas Fields

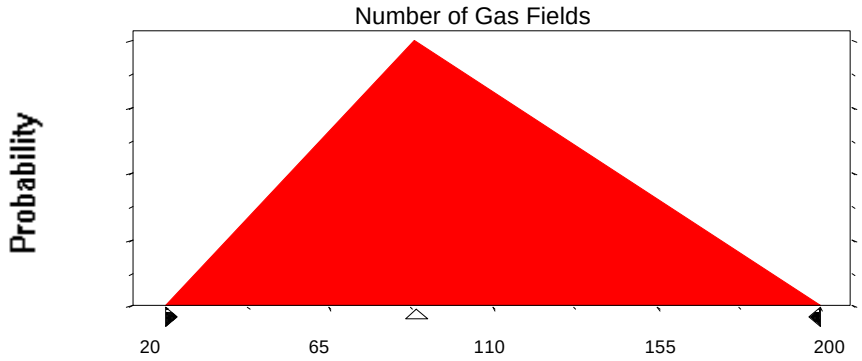
Triangular distribution with parameters:

Minimum	20
Likeliest	89
Maximum	200

Selected range is from 20 to 200
Mean value in simulation was 103

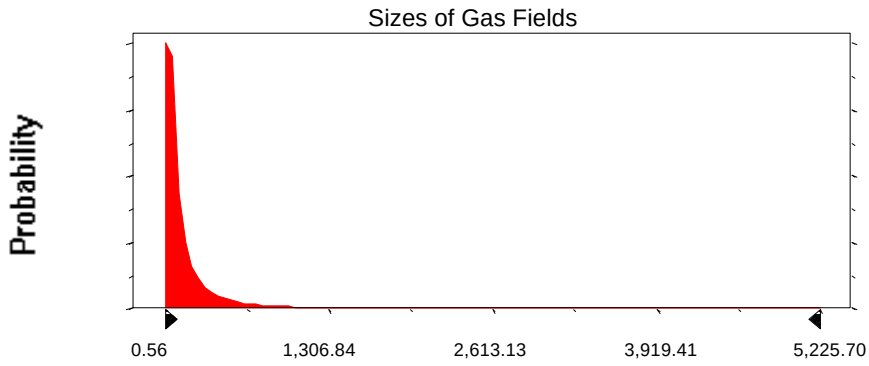
38280101
South Sumatra
Monte Carlo Results

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	172.51	178.51
Standard Deviation	523.41	523.41
Selected range is from 0.00 to 5,994.00		6.00 to 6,000.00
Mean value in simulation was 161.97		167.97



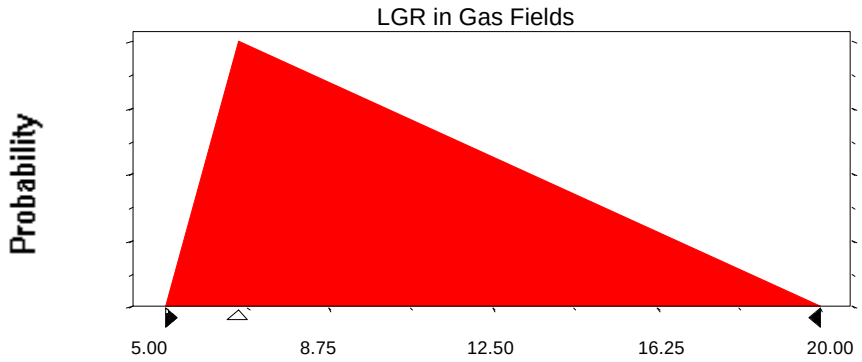
38280101
South Sumatra
Monte Carlo Results

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	5.00
Likeliest	6.67
Maximum	20.00

Selected range is from 5.00 to 20.00
Mean value in simulation was 10.57



End of Assumptions

Simulation started on 6/1/99 at 15:44:49
Simulation stopped on 6/1/99 at 16:52:33