Romania Ploiesti Zone, Assessment Unit 40610202
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	57	240	626	278	63	280	779	333	2	8	24	10	19	66	220	85
Gas Fields	6						41	101	199	108	2	4	8	4	23	47	105	53
Total		1.00	57	240	626	278	105	381	979	441	3	12	33	14				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 800.00 MMBO
Entire range is from 7.92 to 1,304.73 MMBO
After 50,000 trials, the standard error of the mean is 0.81

Statistics:	Value
Trials	50000
Mean	278.09
Median	240.50
Mode	---
Standard Deviation	181.46
Variance	32,928.02
Skewness	1.02
Kurtosis	4.02
Coefficient of Variability	0.65
Range Minimum	7.92
Range Maximum	1,304.73
Range Width	1,296.81
Mean Standard Error	0.81
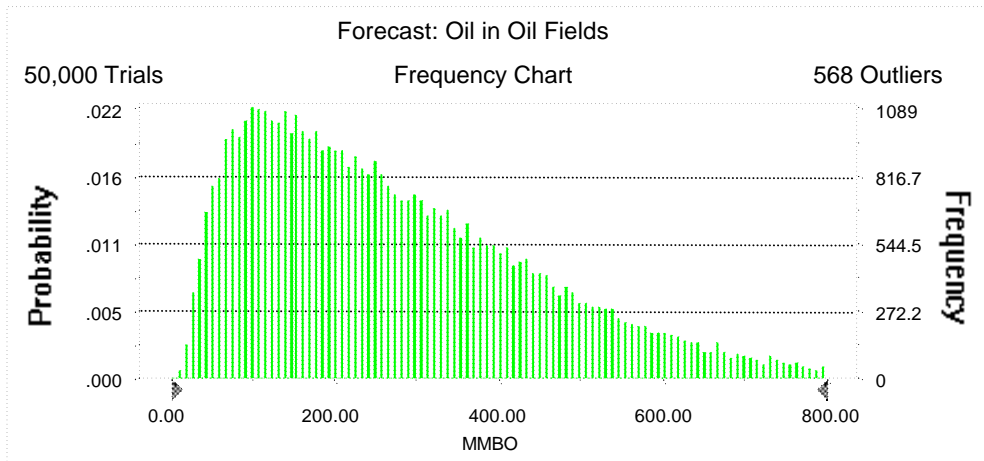
Forecast: Oil in Oil Fields

50,000 Trials   Frequency Chart   568 Outliers

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	7.92
95%	56.57
90%	78.03
85%	98.11
80%	116.48
75%	135.62
70%	154.75
65%	174.90
60%	195.95
55%	217.61
50%	240.50
45%	264.27
40%	291.20
35%	319.40
30%	349.42
25%	384.24
20%	423.18
15%	469.10
10%	531.43
5%	626.04
0%	1,304.73

End of Forecast

Forecast: Gas in Oil Fields

Summary:
>   Display range is from 0.00 to 1,000.00 BCFG
>   Entire range is from 7.18 to 1,930.67 BCFG
>   After 50,000 trials, the standard error of the mean is 1.03

Statistics:	Value
Trials	50000
Mean	333.30
Median	280.33
Mode	---
Standard Deviation	231.24
Variance	53,470.84
Skewness	1.23
Kurtosis	4.92
Coefficient of Variability	0.69
Range Minimum	7.18
Range Maximum	1,930.67
Range Width	1,923.49
Mean Standard Error	1.03
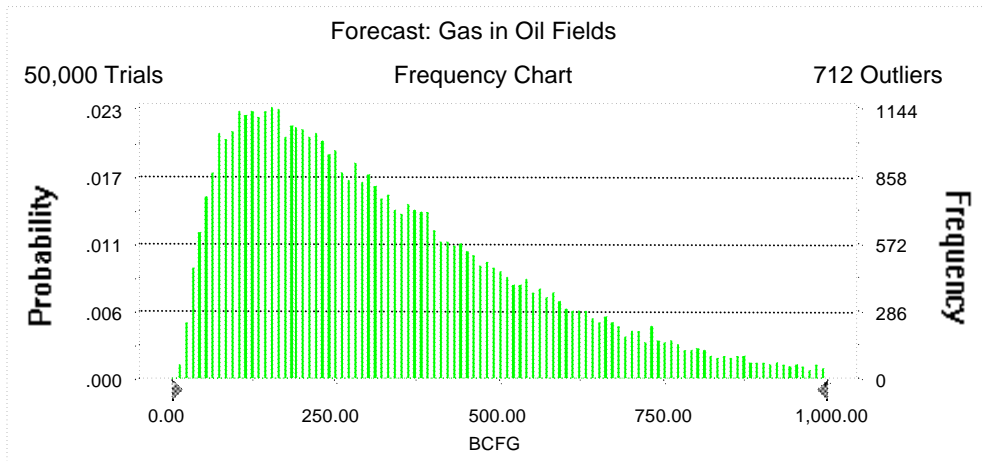
Forecast: Gas in Oil Fields

50,000 Trials	Frequency Chart	712 Outliers

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	7.18
95%	63.44
90%	88.92
85%	111.92
80%	134.34
75%	156.07
70%	179.16
65%	202.29
60%	227.02
55%	251.99
50%	280.33
45%	308.98
40%	341.11
35%	375.89
30%	412.58
25%	456.28
20%	507.81
15%	569.80
10%	652.09
5%	779.41
0%	1,930.67

End of Forecast

Forecast: NGL in Oil Fields

Summary:
    Display range is from 0.00 to 30.00 MMBNGL
    Entire range is from 0.23 to 80.77 MMBNGL
    After 50,000 trials, the standard error of the mean is 0.03

Statistics:	Value
Trials	50000
Mean	10.00
Median	8.18
Mode	---
Standard Deviation	7.38
Variance	54.42
Skewness	1.48
Kurtosis	6.19
Coefficient of Variability	0.74
Range Minimum	0.23
Range Maximum	80.77
Range Width	80.54
Mean Standard Error	0.03
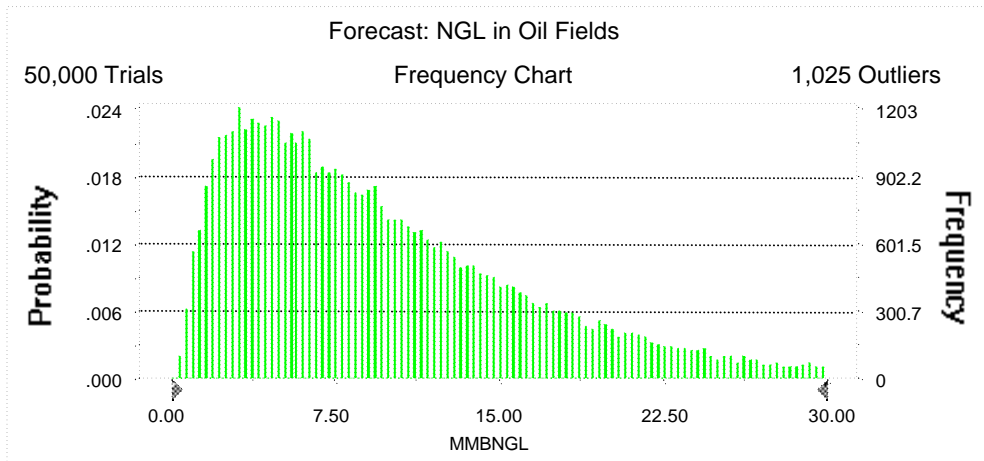
Forecast: NGL in Oil Fields

50,000 Trials   Frequency Chart   1,025 Outliers

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.23
95%	1.80
90%	2.52
85%	3.19
80%	3.85
75%	4.51
70%	5.16
65%	5.87
60%	6.56
55%	7.36
50%	8.18
45%	9.08
40%	10.00
35%	11.07
30%	12.24
25%	13.60
20%	15.20
15%	17.22
10%	19.94
5%	24.34
0%	80.77

End of Forecast

Forecast: Largest Oil Field

Summary:
Display range is from 0.00 to 275.00 MMBO
Entire range is from 3.66 to 399.82 MMBO
After 50,000 trials, the standard error of the mean is 0.29

Statistics:	Value
Trials	50000
Mean	84.76
Median	65.96
Mode	---
Standard Deviation	64.63
Variance	4,177.16
Skewness	1.79
Kurtosis	6.80
Coefficient of Variability	0.76
Range Minimum	3.66
Range Maximum	399.82
Range Width	396.16
Mean Standard Error	0.29

Forecast: Largest Oil Field

50,000 Trials   Frequency Chart   1,171 Outliers
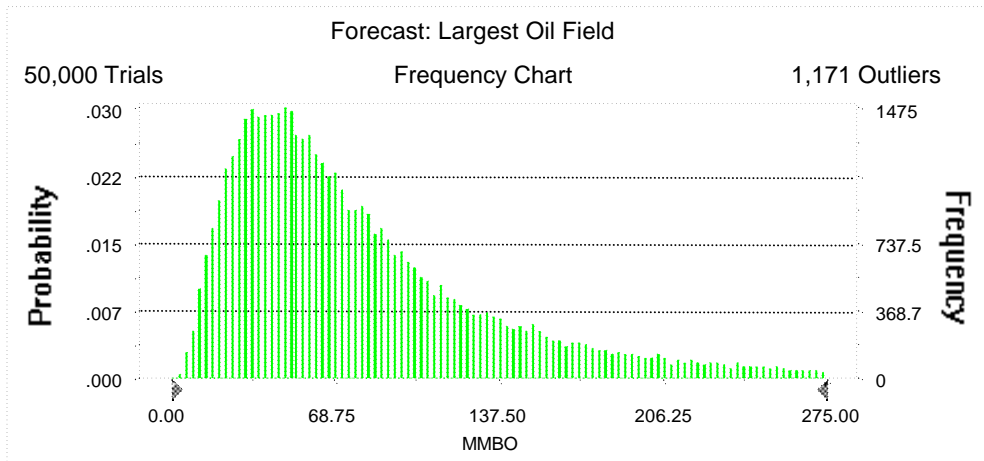
Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	3.66
95%	19.47
90%	25.80
85%	31.03
80%	35.82
75%	40.62
70%	45.32
65%	50.11
60%	55.05
55%	60.24
50%	65.96
45%	72.24
40%	79.32
35%	87.06
30%	96.24
25%	107.28
20%	121.77
15%	141.27
10%	169.14
5%	220.34
0%	399.82

End of Forecast

Forecast: Gas in Gas Fields

Summary:
    Display range is from 0.00 to 250.00 BCFG
    Entire range is from 8.10 to 492.08 BCFG
    After 50,000 trials, the standard error of the mean is 0.22

Statistics:	Value
Trials	50000
Mean	107.95
Median	100.98
Mode	---
Standard Deviation	49.02
Variance	2,403.28
Skewness	0.89
Kurtosis	4.27
Coefficient of Variability	0.45
Range Minimum	8.10
Range Maximum	492.08
Range Width	483.98
Mean Standard Error	0.22
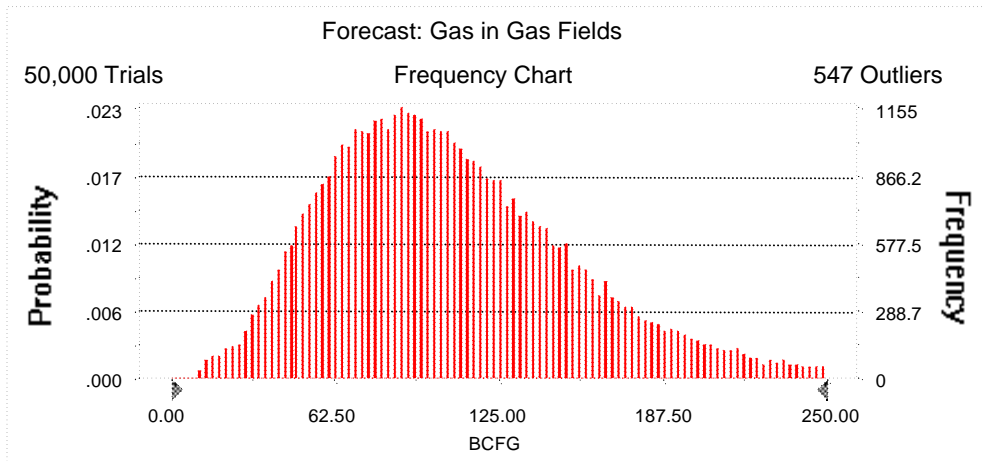
Forecast: Gas in Gas Fields

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	8.10
95%	41.11
90%	51.74
85%	59.67
80%	66.43
75%	72.52
70%	78.40
65%	84.17
60%	89.69
55%	95.20
50%	100.98
45%	106.84
40%	113.19
35%	119.94
30%	127.28
25%	135.81
20%	145.24
15%	157.08
10%	172.84
5%	199.19
0%	492.08

End of Forecast

Forecast: NGL in Gas Fields

Summary:
    Display range is from 0.00 to 10.00 MMBNGL
    Entire range is from 0.19 to 21.42 MMBNGL
    After 50,000 trials, the standard error of the mean is 0.01

Statistics:	Value
Trials	50000
Mean	4.32
Median	3.93
Mode	---
Standard Deviation	2.18
Variance	4.77
Skewness	1.11
Kurtosis	4.95
Coefficient of Variability	0.51
Range Minimum	0.19
Range Maximum	21.42
Range Width	21.23
Mean Standard Error	0.01
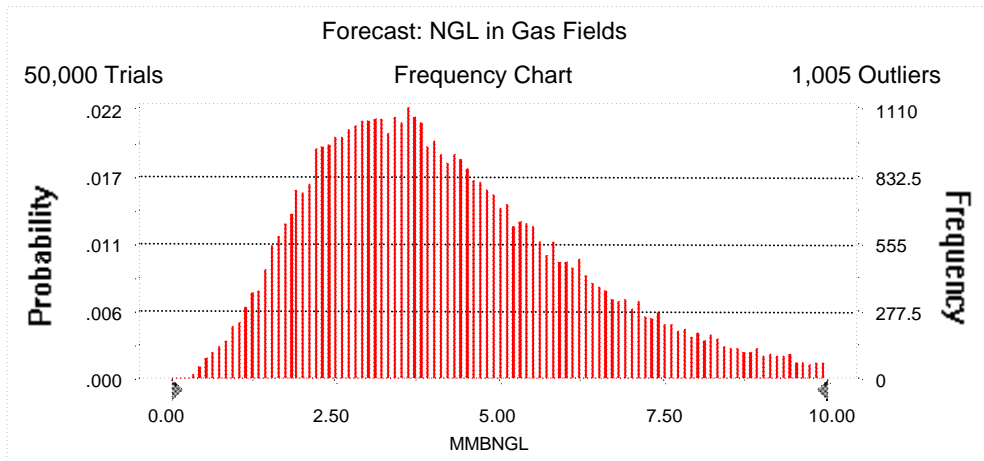
Forecast: NGL in Gas Fields

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.19
95%	1.51
90%	1.91
85%	2.23
80%	2.49
75%	2.74
70%	2.98
65%	3.22
60%	3.46
55%	3.69
50%	3.93
45%	4.19
40%	4.47
35%	4.77
30%	5.10
25%	5.48
20%	5.92
15%	6.47
10%	7.22
5%	8.45
0%	21.42

End of Forecast

Forecast: Largest Gas Field

Summary:
      Display range is from 0.00 to 140.00 BCFG
      Entire range is from 8.10 to 199.87 BCFG
      After 50,000 trials, the standard error of the mean is 0.12

Statistics:	Value
Trials	50000
Mean	53.38
Median	47.18
Mode	---
Standard Deviation	26.42
Variance	697.93
Skewness	1.56
Kurtosis	6.44
Coefficient of Variability	0.49
Range Minimum	8.10
Range Maximum	199.87
Range Width	191.77
Mean Standard Error	0.12

Forecast: Largest Gas Field

50,000 Trials   Frequency Chart   642 Outliers
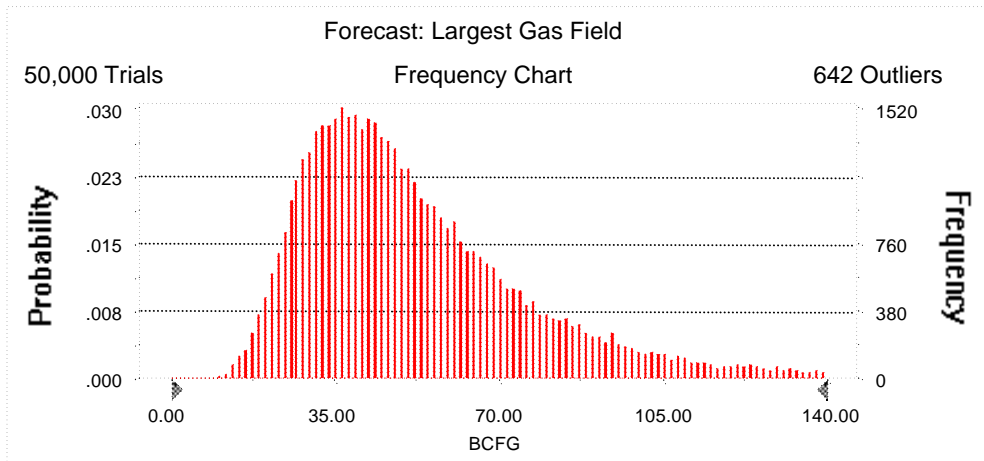
Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	8.10
95%	23.23
90%	27.08
85%	30.02
80%	32.57
75%	35.01
70%	37.39
65%	39.74
60%	42.18
55%	44.59
50%	47.18
45%	49.90
40%	52.97
35%	56.51
30%	60.38
25%	64.87
20%	70.25
15%	77.33
10%	87.51
5%	105.14
0%	199.87

End of Forecast

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:
Minimum   3
Likeliest   5
Maximum   35

Selected range is from 3 to 35
Mean value in simulation was 14

Number of Oil Fields
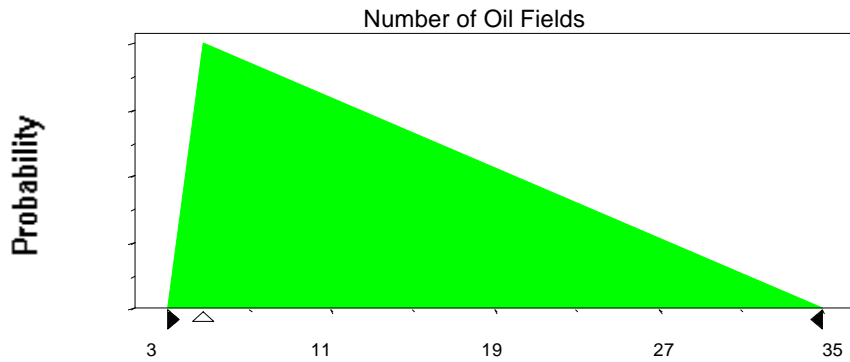
Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters	
Mean	19.11		20.11
Standard Deviation	35.79		35.79

Selected range is from 0.00 to 399.00	1.00 to 400.00
Mean value in simulation was 18.67	19.67

Assumption: Sizes of Oil Fields (cont'd)

Sizes of Oil Fields

Probability

| 0.23 | 89.49 | 178.75 | 268.02 | 357.28 |
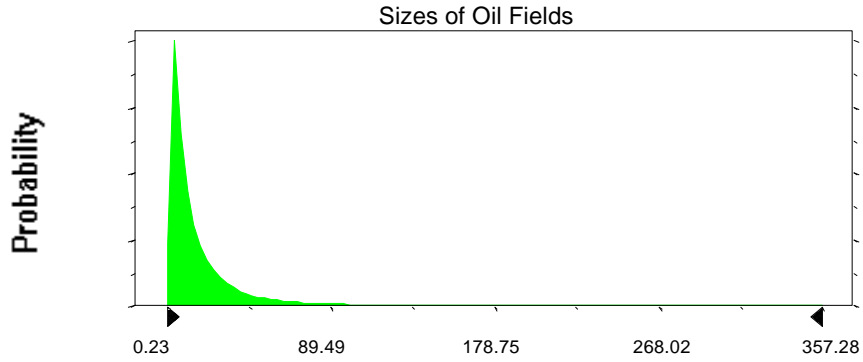
Assumption: GOR in Oil Fields

Triangular distribution with parameters:
Minimum	600.00
Likeliest	1,200.00
Maximum	1,800.00

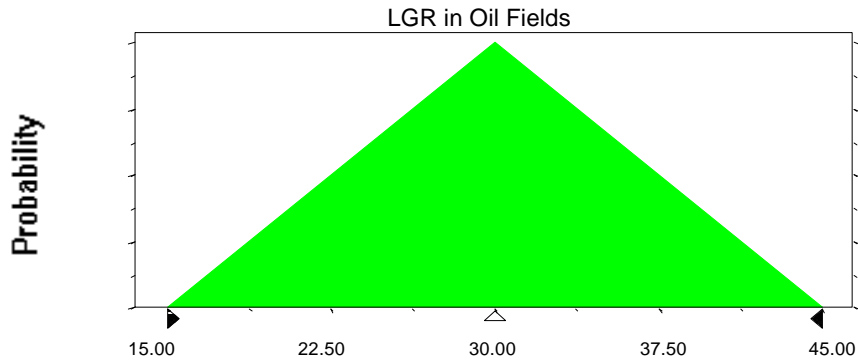Selected range is from 600.00 to 1,800.00
Mean value in simulation was 1,199.64

GOR in Oil Fields

Probability

| 600.00 | 900.00 | 1,200.00 | 1,500.00 | 1,800.00 |
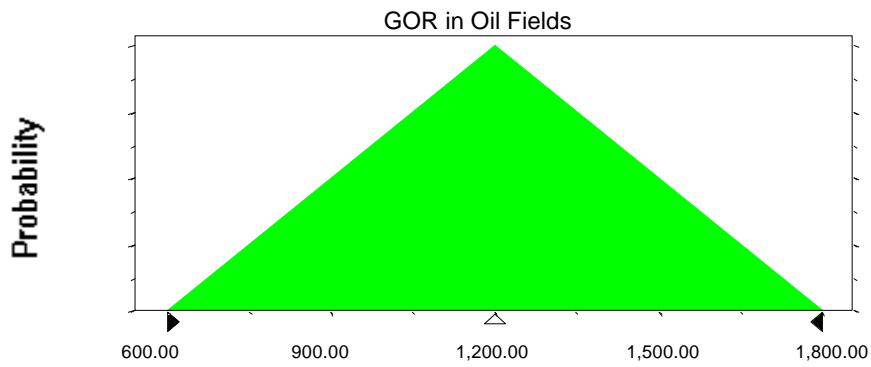
Assumption: LGR in Oil Fields

Triangular distribution with parameters:
Minimum	15.00
Likeliest	30.00
Maximum	45.00

Selected range is from 15.00 to 45.00
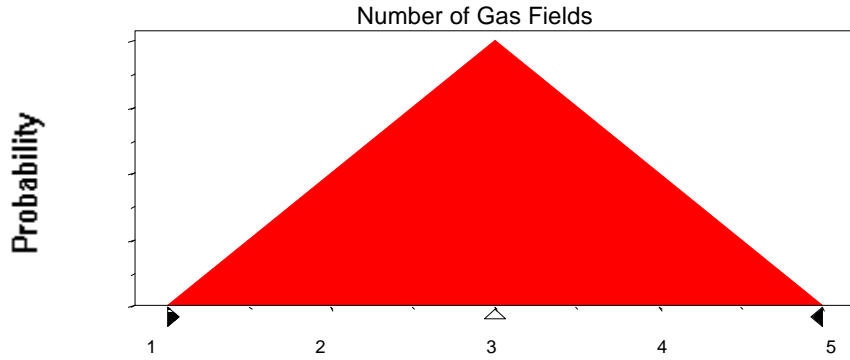Mean value in simulation was 30.00

LGR in Oil Fields

Assumption: Number of Gas Fields

Triangular distribution with parameters:
Minimum	1
Likeliest	3
Maximum	5

Selected range is from 1 to 5
Mean value in simulation was 3

Assumption: Number of Gas Fields (cont'd)

Number of Gas Fields

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters	
Mean	30.17		36.17
Standard Deviation	22.97		22.97

Selected range is from 0.00 to 194.00   6.00 to 200.00
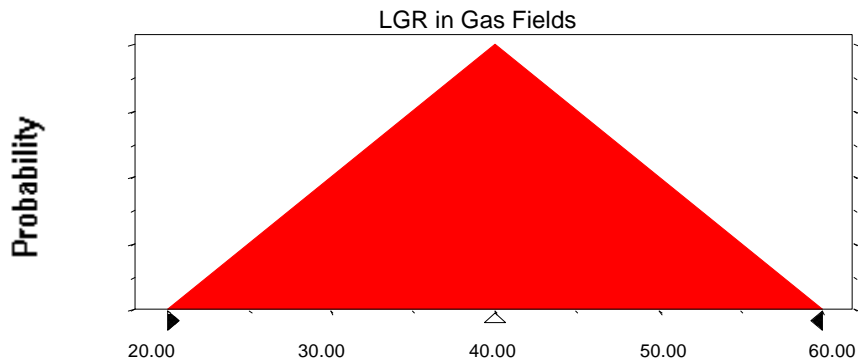Mean value in simulation was 30.05   36.05
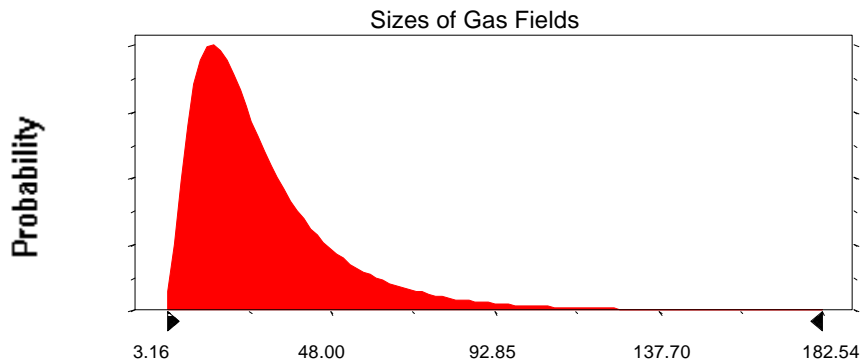
Sizes of Gas Fields

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 40.01

LGR in Gas Fields

End of Assumptions

Simulation started on 5/24/99 at 15:22:25
Simulation stopped on 5/24/99 at 15:41:26