East and Southeast Margins Subsalt, Assessment Unit 10160103
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]

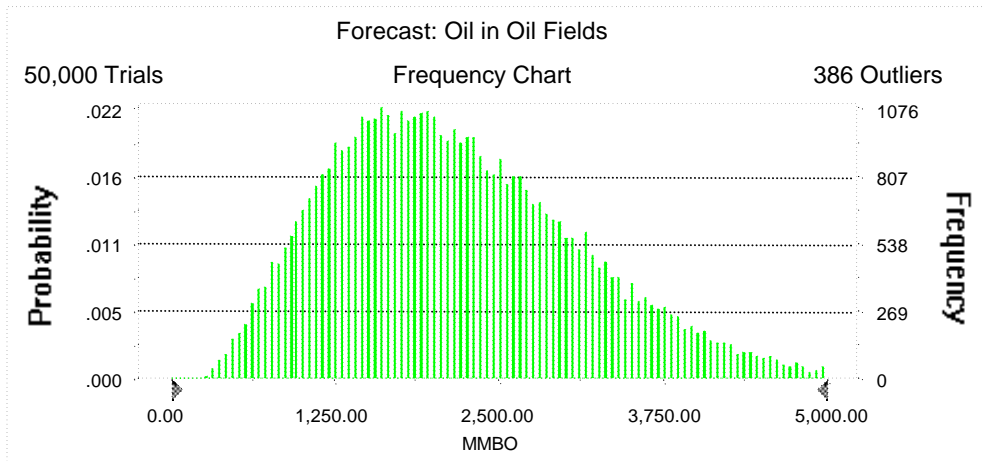| Field Type | MFS | Prob. (0-1) | Undiscovered Resources | | | | | | | | | | | | Largest Undiscovered Field | | | |
			Oil (MMBO)				Gas (BCFG)				NGL (MMBNGL)				(MMBO or BCFG)			
			F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	10	1.00	826	2,076	3,958	2,196	1,616	4,194	8,520	4,515	89	246	543	271	126	345	1,056	430
Gas Fields	60						741	1,995	4,760	2,267	36	99	240	113	187	562	2,207	788
Total		1.00	826	2,076	3,958	2,196	2,357	6,189	13,280	6,781	125	344	783	385				

Forecast: Oil in Oil Fields

Summary:
Display range is from 0.00 to 5,000.00 MMBO
Entire range is from 208.61 to 7,820.40 MMBO
After 50,000 trials, the standard error of the mean is 4.33

Statistics:	Value
Trials	50000
Mean	2,196.38
Median	2,076.04
Mode	---
Standard Deviation	968.44
Variance	937,879.25
Skewness	0.67
Kurtosis	3.43
Coefficient of Variability	0.44
Range Minimum	208.61
Range Maximum	7,820.40
Range Width	7,611.79
Mean Standard Error	4.33

Forecast: Oil in Oil Fields

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

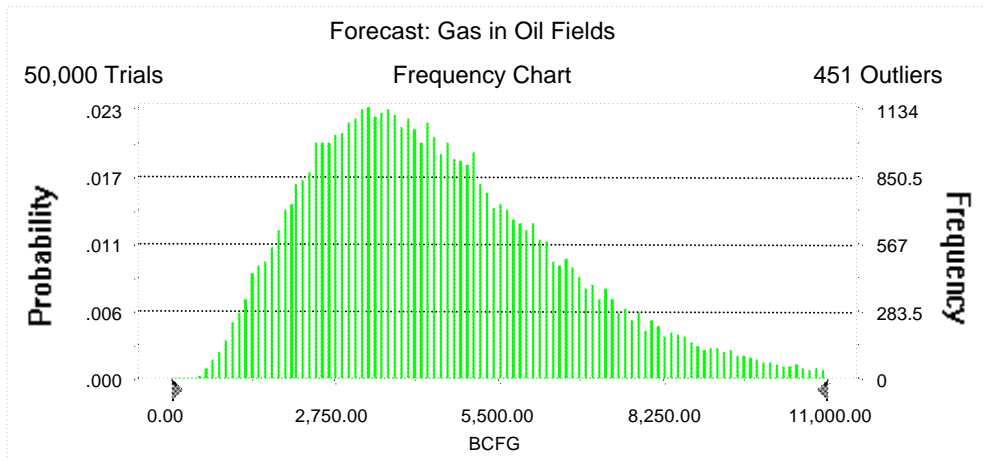| Percentile	MMBO
100%	208.61
95%	825.63
90%	1,039.43
85%	1,203.21
80%	1,343.96
75%	1,472.95
70%	1,595.30
65%	1,713.10
60%	1,836.14
55%	1,954.66
50%	2,076.04
45%	2,204.51
40%	2,334.57
35%	2,480.09
30%	2,632.19
25%	2,798.35
20%	2,988.59
15%	3,214.14
10%	3,514.38
5%	3,957.71
0%	7,820.40

End of Forecast

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 11,000.00 BCFG

Entire range is from 359.30 to 21,025.31 BCFG

After 50,000 trials, the standard error of the mean is 9.59

Statistics:	Value
Trials	50000
Mean	4,514.61
Median	4,193.59
Mode	---
Standard Deviation	2,143.96
Variance	4,596,560.89
Skewness	0.89
Kurtosis	4.04
Coefficient of Variability	0.47
Range Minimum	359.30
Range Maximum	21,025.31
Range Width	20,666.01
Mean Standard Error	9.59

Forecast: Gas in Oil Fields

50,000 Trials   Frequency Chart   451 Outliers

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

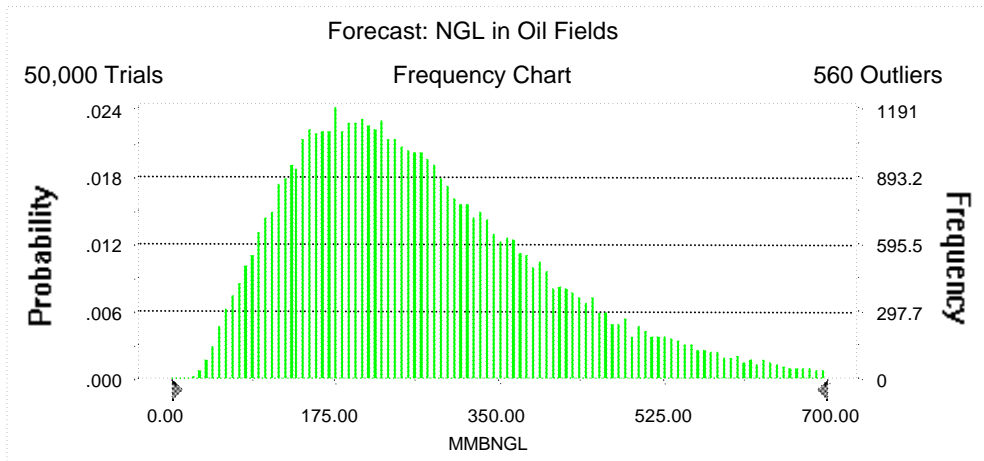| Percentile	BCFG
100%	359.30
95%	1,615.76
90%	2,046.97
85%	2,382.56
80%	2,663.03
75%	2,935.97
70%	3,191.20
65%	3,433.17
60%	3,682.90
55%	3,932.37
50%	4,193.59
45%	4,459.98
40%	4,740.95
35%	5,043.07
30%	5,366.88
25%	5,746.76
20%	6,174.66
15%	6,701.24
10%	7,392.18
5%	8,520.18
0%	21,025.31

End of Forecast

East and Southeast Margins Subsalt
Monte Carlo Results

Forecast: NGL in Oil Fields

Summary:
    Display range is from 0.00 to 700.00 MMBNGL
    Entire range is from 19.63 to 1,560.69 MMBNGL
    After 50,000 trials, the standard error of the mean is 0.64

Statistics:	Value
Trials	50000
Mean	271.30
Median	245.54
Mode	---
Standard Deviation	142.52
Variance	20,313.18
Skewness	1.11
Kurtosis	4.88
Coefficient of Variability	0.53
Range Minimum	19.63
Range Maximum	1,560.69
Range Width	1,541.06
Mean Standard Error	0.64

Forecast: NGL in Oil Fields

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	19.63
95%	88.92
90%	114.13
85%	133.55
80%	150.84
75%	166.79
70%	182.21
65%	197.99
60%	213.13
55%	229.03
50%	245.54
45%	262.76
40%	280.70
35%	300.32
30%	322.75
25%	347.82
20%	377.05
15%	413.06
10%	461.61
5%	542.61
0%	1,560.69

End of Forecast

Forecast: Largest Oil Field

Summary:
 Display range is from 0.00 to 1,200.00 MMBO
 Entire range is from 28.06 to 1,499.24 MMBO
 After 50,000 trials, the standard error of the mean is 1.28

Statistics:	Value
Trials	50000
Mean	429.79
Median	344.80
Mode	---
Standard Deviation	285.49
Variance	81,502.80
Skewness	1.39
Kurtosis	4.65
Coefficient of Variability	0.66
Range Minimum	28.06
Range Maximum	1,499.24
Range Width	1,471.18
Mean Standard Error	1.28

Forecast: Largest Oil Field

50,000 Trials	Frequency Chart	1,396 Outliers

Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	28.06
95%	125.50
90%	155.77
85%	179.88
80%	202.48
75%	224.62
70%	246.66
65%	268.47
60%	292.12
55%	317.62
50%	344.80
45%	375.04
40%	411.01
35%	449.42
30%	495.05
25%	550.52
20%	618.95
15%	711.79
10%	841.35
5%	1,055.73
0%	1,499.24

End of Forecast

Forecast: Gas in Gas Fields

Summary:
Display range is from 0.00 to 6,000.00 BCFG
Entire range is from 221.84 to 11,752.69 BCFG
After 50,000 trials, the standard error of the mean is 5.71

Statistics:	Value
Trials	50000
Mean	2,266.58
Median	1,995.03
Mode	---
Standard Deviation	1,277.80
Variance	1,632,775.02
Skewness	1.36
Kurtosis	5.67
Coefficient of Variability	0.56
Range Minimum	221.84
Range Maximum	11,752.69
Range Width	11,530.85
Mean Standard Error	5.71
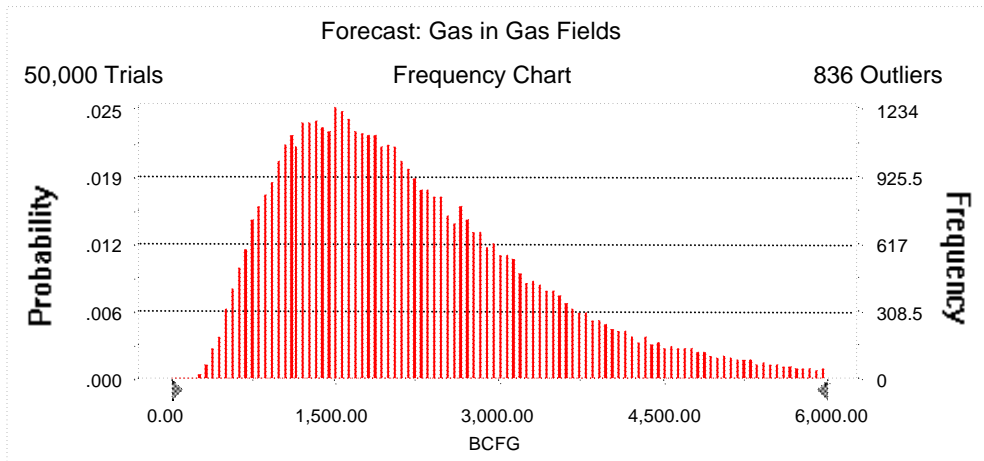
Forecast: Gas in Gas Fields

50,000 Trials — Frequency Chart — 836 Outliers

Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	221.84
95%	740.98
90%	926.27
85%	1,075.06
80%	1,213.77
75%	1,340.75
70%	1,470.50
65%	1,595.88
60%	1,723.67
55%	1,856.67
50%	1,995.03
45%	2,139.72
40%	2,301.11
35%	2,474.36
30%	2,672.94
25%	2,889.91
20%	3,148.18
15%	3,481.79
10%	3,942.80
5%	4,759.97
0%	11,752.69

End of Forecast

Forecast: NGL in Gas Fields

Summary:
    Display range is from 0.00 to 300.00 MMBNGL
    Entire range is from 9.43 to 718.07 MMBNGL
    After 50,000 trials, the standard error of the mean is 0.29

Statistics:	Value
Trials	50000
Mean	113.38
Median	98.79
Mode	---
Standard Deviation	65.92
Variance	4,346.07
Skewness	1.46
Kurtosis	6.35
Coefficient of Variability	0.58
Range Minimum	9.43
Range Maximum	718.07
Range Width	708.64
Mean Standard Error	0.29
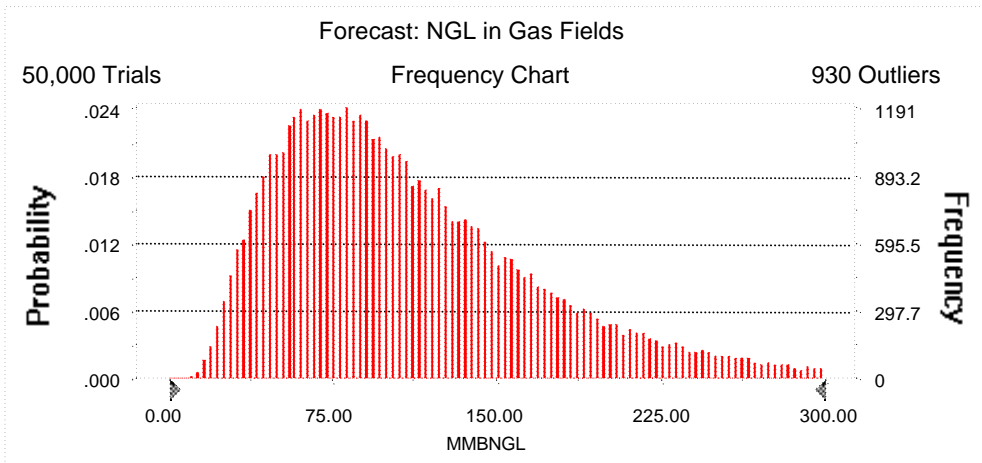
Forecast: NGL in Gas Fields

Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	9.43
95%	36.06
90%	45.19
85%	52.79
80%	59.51
75%	65.99
70%	72.38
65%	78.82
60%	85.34
55%	91.80
50%	98.79
45%	106.30
40%	114.43
35%	123.44
30%	133.56
25%	144.55
20%	158.33
15%	175.56
10%	199.55
5%	240.37
0%	718.07

End of Forecast

Forecast: Largest Gas Field

Summary:
    Display range is from 0.00 to 2,750.00 BCFG
    Entire range is from 75.32 to 4,999.46 BCFG
    After 50,000 trials, the standard error of the mean is 3.13

Statistics:	Value
Trials	50000
Mean	788.17
Median	562.24
Mode	---
Standard Deviation	700.50
Variance	490,694.43
Skewness	2.42
Kurtosis	10.36
Coefficient of Variability	0.89
Range Minimum	75.32
Range Maximum	4,999.46
Range Width	4,924.14
Mean Standard Error	3.13
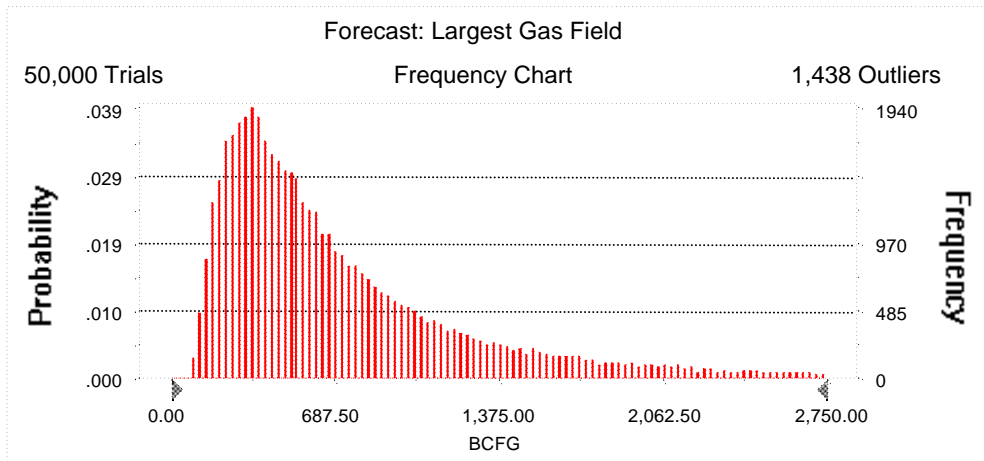
Forecast: Largest Gas Field

Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	75.32
95%	186.96
90%	233.32
85%	273.12
80%	310.28
75%	347.00
70%	382.77
65%	422.94
60%	466.82
55%	512.75
50%	562.24
45%	617.93
40%	682.14
35%	757.97
30%	846.90
25%	958.75
20%	1,102.46
15%	1,301.15
10%	1,617.85
5%	2,207.01
0%	4,999.46

End of Forecast

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:
Minimum	10
Likeliest	34
Maximum	80

Selected range is from 10 to 80
Mean value in simulation was 41

Number of Oil Fields
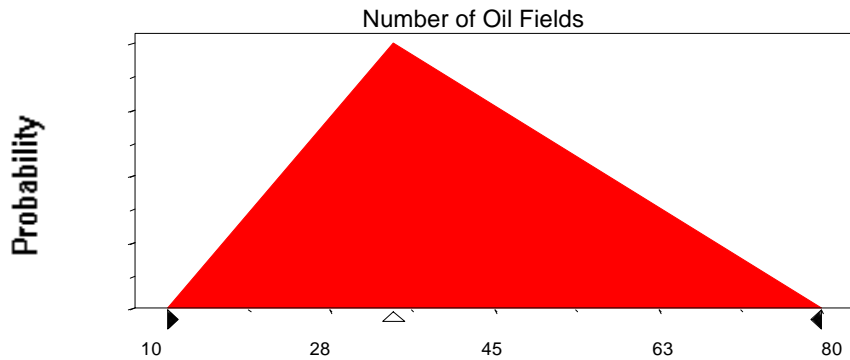
Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters	
Mean	45.39		55.39
Standard Deviation	129.66		129.66

Selected range is from 0.00 to 1,490.00		10.00 to 1,500.00	
Mean value in simulation was 42.88		52.88	

Assumption: Sizes of Oil Fields (cont'd)

Sizes of Oil Fields

Probability

| 0.17 | 325.94 | 651.70 | 977.46 | 1,303.22 |
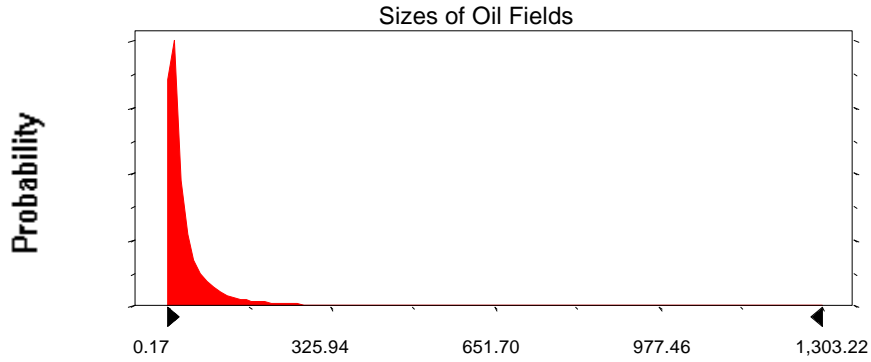
Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,500.00
Likeliest	1,666.67
Maximum	3,000.00

Selected range is from 1,500.00 to 3,000.00
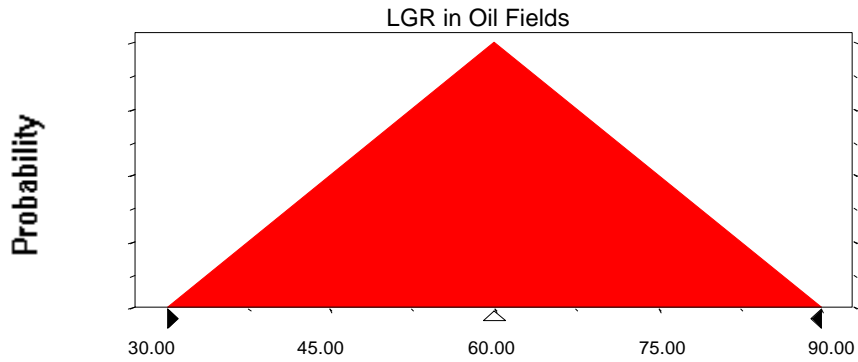Mean value in simulation was 2,055.58

GOR in Oil Fields

Probability

| 1,500.00 | 1,875.00 | 2,250.00 | 2,625.00 | 3,000.00 |
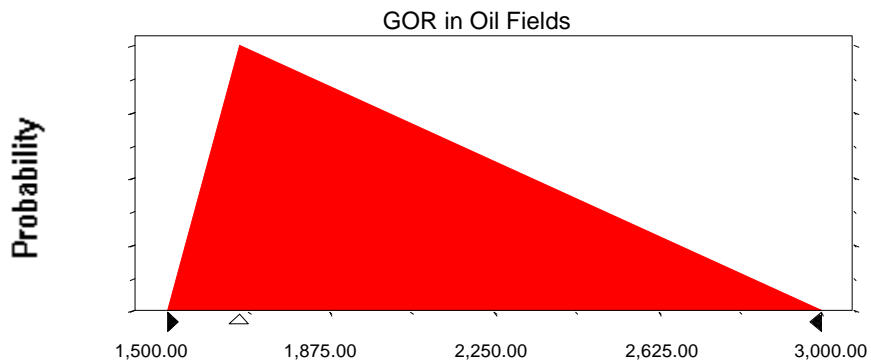
Assumption: LGR in Oil Fields

   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 60.08

LGR in Oil Fields

Assumption: Number of Gas Fields

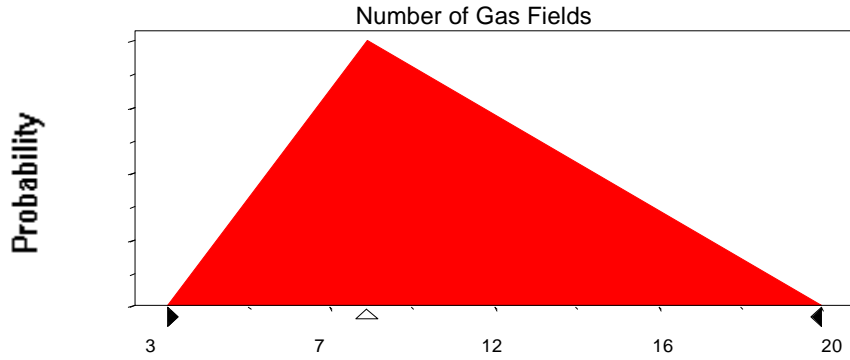   Triangular distribution with parameters:
      Minimum   3
      Likeliest   8
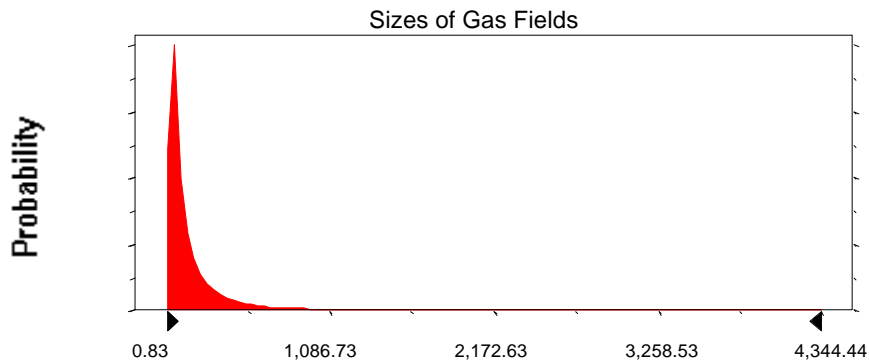   Maximum   20

   Selected range is from 3 to 20
   Mean value in simulation was 10

Assumption: Number of Gas Fields (cont'd)

Number of Gas Fields

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters	
Mean	166.19		226.19
Standard Deviation	429.27		429.27

Selected range is from 0.00 to 4,940.00   60.00 to 5,000.00
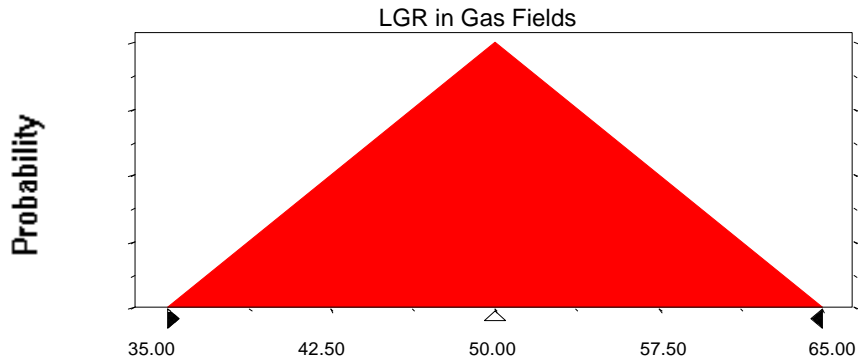Mean value in simulation was 156.72   216.72

Sizes of Gas Fields

Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	35.00
Likeliest	50.00
Maximum	65.00

Selected range is from 35.00 to 65.00
Mean value in simulation was 50.03

LGR in Gas Fields

End of Assumptions

Simulation started on 1/20/99 at 10:29:04
Simulation stopped on 1/20/99 at 10:56:26