Southeast Sirte Clastics, Assessment Unit 20430101
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	10	1.00	890	2,293	4,130	2,380	195	672	1,879	808	12	40	113	48	148	322	736	363
Gas Fields	60						0	0	0	0	0	0	0	0	NA	NA	NA	NA
Total		1.00	890	2,293	4,130	2,380	195	672	1,879	808	12	40	113	48				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 5,000.00 MMBO
Entire range is from 160.10 to 8,114.59 MMBO
After 50,000 trials, the standard error of the mean is 4.42

Statistics:	Value
Trials	50000
Mean	2,379.94
Median	2,293.07
Mode	---
Standard Deviation	987.74
Variance	975,638.94
Skewness	0.42
Kurtosis	2.89
Coefficient of Variability	0.42
Range Minimum	160.10
Range Maximum	8,114.59
Range Width	7,954.49
Mean Standard Error	4.42

Forecast: Oil in Oil Fields (cont'd)

Percentiles:

Percentile	MMBO
100%	160.10
95%	889.83
90%	1,143.44
85%	1,343.64
80%	1,505.16
75%	1,655.36
70%	1,792.05
65%	1,919.24
60%	2,041.91
55%	2,168.66
50%	2,293.07
45%	2,424.53
40%	2,558.79
35%	2,708.08
30%	2,860.34
25%	3,031.21
20%	3,220.17
15%	3,452.02
10%	3,721.63
5%	4,130.30
0%	8,114.59

End of Forecast

Forecast: Gas in Oil Fields

Summary:
     Display range is from 0.00 to 2,250.00 BCFG
     Entire range is from 31.94 to 4,743.89 BCFG
     After 50,000 trials, the standard error of the mean is 2.42

Statistics:	Value
Trials	50000
Mean	808.07
Median	672.23
Mode	---
Standard Deviation	541.39
Variance	293,100.51
Skewness	1.34
Kurtosis	5.28
Coefficient of Variability	0.67
Range Minimum	31.94
Range Maximum	4,743.89
Range Width	4,711.96
Mean Standard Error	2.42
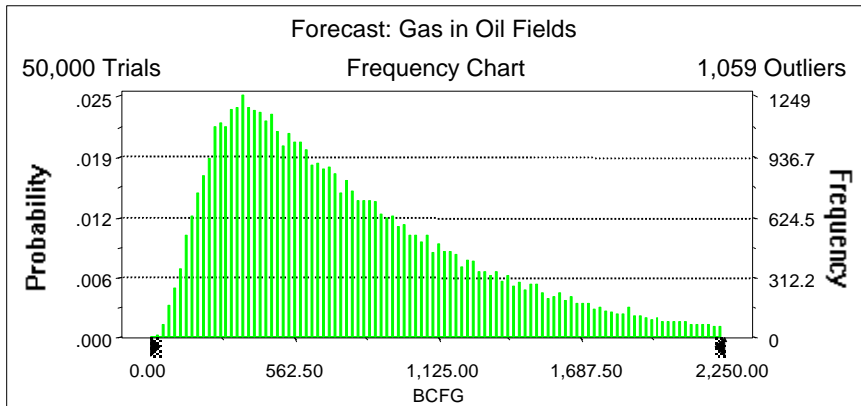
Forecast: Gas in Oil Fields
50,000 Trials — Frequency Chart — 1,059 Outliers

Forecast: Gas in Oil Fields (cont'd)

Percentiles:

Percentile	BCFG
100%	31.94
95%	195.04
90%	257.44
85%	309.07
80%	356.70
75%	402.71
70%	450.44
65%	500.41
60%	554.51
55%	610.52
50%	672.23
45%	736.45
40%	809.73
35%	889.67
30%	978.23
25%	1,081.22
20%	1,201.38
15%	1,353.70
10%	1,552.59
5%	1,878.53
0%	4,743.89

End of Forecast

Forecast: NGL in Oil Fields

Summary:
Display range is from 0.00 to 150.00 MMBNGL
Entire range is from 1.94 to 273.79 MMBNGL
After 50,000 trials, the standard error of the mean is 0.15

Statistics:	Value
Trials	50000
Mean	48.47
Median	40.21
Mode	---
Standard Deviation	32.67
Variance	1,067.55
Skewness	1.36
Kurtosis	5.36
Coefficient of Variability	0.67
Range Minimum	1.94
Range Maximum	273.79
Range Width	271.84
Mean Standard Error	0.15
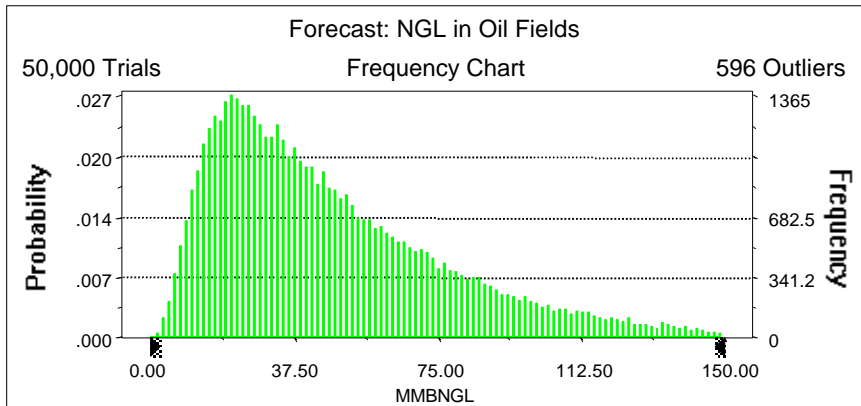
Forecast: NGL in Oil Fields
50,000 Trials — Frequency Chart — 596 Outliers

Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	1.94
95%	11.59
90%	15.33
85%	18.38
80%	21.23
75%	24.04
70%	26.90
65%	29.96
60%	33.25
55%	36.59
50%	40.21
45%	44.17
40%	48.43
35%	53.17
30%	58.63
25%	64.94
20%	72.16
15%	81.19
10%	93.18
5%	113.27
0%	273.79

End of Forecast

Forecast: Largest Oil Field

Summary:
    Display range is from 0.00 to 900.00 MMBO
    Entire range is from 44.37 to 999.86 MMBO
    After 50,000 trials, the standard error of the mean is 0.80

Statistics:	Value
Trials	50000
Mean	363.13
Median	321.68
Mode	---
Standard Deviation	179.15
Variance	32,093.05
Skewness	1.11
Kurtosis	4.01
Coefficient of Variability	0.49
Range Minimum	44.37
Range Maximum	999.86
Range Width	955.49
Mean Standard Error	0.80
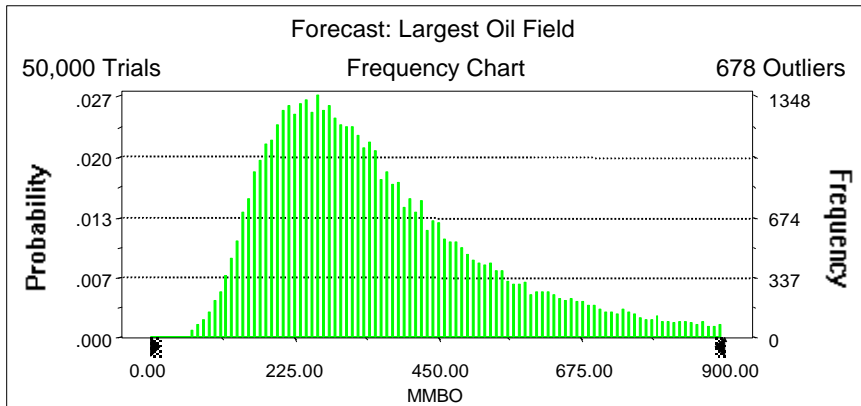
Forecast: Largest Oil Field (cont'd)

Percentiles:

Percentile	MMBO
100%	44.37
95%	147.95
90%	174.60
85%	195.93
80%	214.32
75%	232.15
70%	249.38
65%	266.94
60%	284.00
55%	302.61
50%	321.68
45%	342.07
40%	363.86
35%	389.27
30%	418.54
25%	451.88
20%	492.38
15%	545.46
10%	619.78
5%	736.14
0%	999.86

End of Forecast

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:
Minimum	5
Likeliest	27
Maximum	60

Selected range is from 5 to 60
Mean value in simulation was 31

Number of Oil Fields
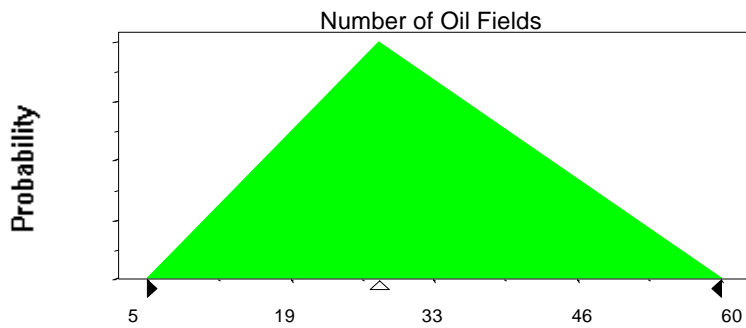
Assumption: Sizes of Oil Fields

Lognormal distribution with parameters: Shifted parameters
Mean	68.58	78.58
Standard Deviation	95.53	95.53

Selected range is from 0.00 to 990.00   10.00 to 1,000.00
Mean value in simulation was 67.74   77.74

Assumption: Sizes of Oil Fields (cont'd)

Sizes of Oil Fields

1.77	226.75	451.72	676.69	901.67
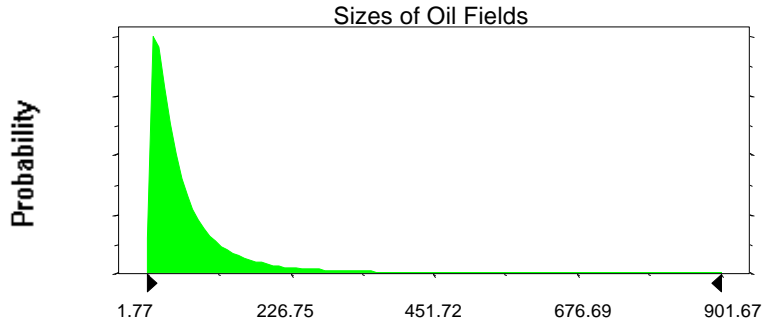
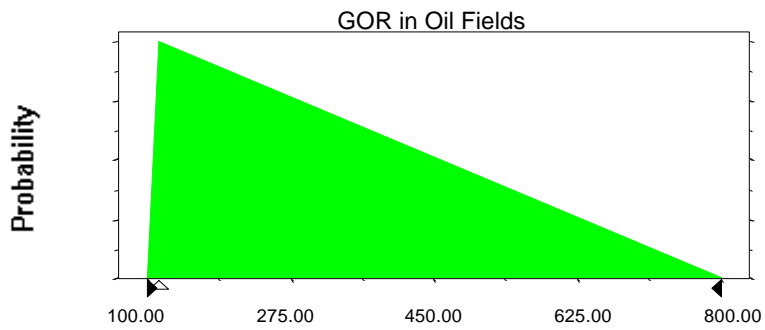**Assumption: GOR in Oil Fields**

Triangular distribution with parameters:
Minimum   100.00
Likeliest   114.00
Maximum   800.00

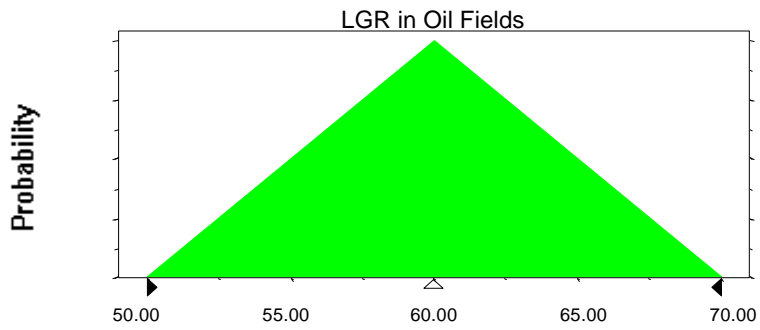Selected range is from 100.00 to 800.00
Mean value in simulation was 339.38

GOR in Oil Fields

100.00	275.00	450.00	625.00	800.00

Assumption: LGR in Oil Fields

   Triangular distribution with parameters:

Minimum	50.00
Likeliest	60.00
Maximum	70.00

Selected range is from 50.00 to 70.00
Mean value in simulation was 59.99

LGR in Oil Fields

End of Assumptions

Simulation started on 12/8/98 at 8:23:19
Simulation stopped on 12/8/98 at 8:43:00