# Structural Traps, Assessment Unit 31440201 Assessment Results Summary

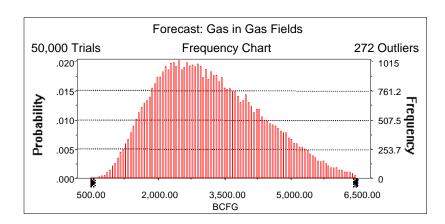
[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results 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	MFS	S Prob.	Undiscovered Resources								Largest Undiscovered Field							
Field Type			Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. )   0		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	5	1.00	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA
Gas Fields	30	1.00					1,513	3,075	5,346	3,212	41	90	175	96	183	353	753	393
Total		1.00	0	0	0	0	1,513	3,075	5,346	3,212	41	90	175	96				

### Forecast: Gas in Gas Fields

### Summary:

Display range is from 500.00 to 6,500.00 BCFG Entire range is from 619.65 to 8,653.05 BCFG After 50,000 trials, the standard error of the mean is 5.29



# Forecast: Gas in Gas Fields (cont'd)

Percentiles:

ь	DOFO
<u>Percentile</u>	BCFG
100%	619.65
95%	1,512.71
90%	1,770.29
85%	1,973.18
80%	2,144.28
75%	2,303.28
70%	2,454.75
65%	2,607.11
60%	2,759.82
55%	2,915.05
50%	3,075.10
45%	3,239.18
40%	3,409.15
35%	3,591.86
30%	3,790.63
25%	4,010.45
20%	4,249.56
15%	4,526.63
10%	4,868.81
5%	5,345.91
0%	8,653.05

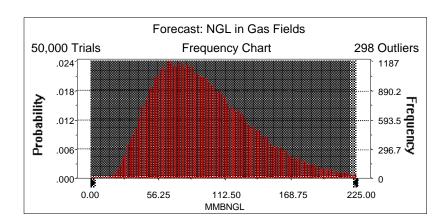
End of Forecast

### Forecast: NGL in Gas Fields

### Summary:

Display range is from 0.00 to 225.00 MMBNGL Entire range is from 13.07 to 351.86 MMBNGL After 50,000 trials, the standard error of the mean is 0.19

Statistics: Trials	<u>Value</u> 50000
Mean	96.47
Median	90.02
Mode	
Standard Deviation	41.41
Variance	1,714.61
Skewness	0.80
Kurtosis	3.57
Coefficient of Variability	0.43
Range Minimum	13.07
Range Maximum	351.86
Range Width	338.79
Mean Standard Error	0.19



# Forecast: NGL in Gas Fields (cont'd)

### Percentiles:

Percentile	MMBNGL
100%	13.07
95%	40.67
90%	48.72
85%	54.89
80%	60.30
75%	65.35
70%	70.14
65%	75.06
60%	79.93
55%	84.93
50%	90.02
45%	95.41
40%	101.04
35%	107.14
30%	113.75
25%	121.25
20%	129.73
15%	140.06
10%	153.41
5%	174.55
0%	351.86

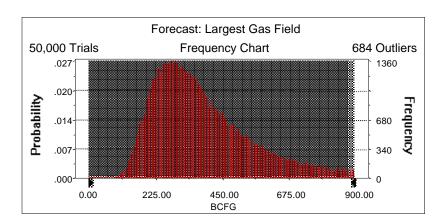
End of Forecast

### Forecast: Largest Gas Field

### Summary:

Display range is from 0.00 to 900.00 BCFG Entire range is from 78.94 to 999.88 BCFG After 50,000 trials, the standard error of the mean is 0.77

Statistics: Trials	<u>Value</u> 50000
Mean	393.26
Median	353.17
Mode	
Standard Deviation	172.95
Variance	29,912.42
Skewness	1.07
Kurtosis	3.87
Coefficient of Variability	0.44
Range Minimum	78.94
Range Maximum	999.88
Range Width	920.94
Mean Standard Error	0.77



# Forecast: Largest Gas Field (cont'd)

### Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	78.94
95%	183.09
90%	210.69
85%	230.49
80%	248.70
75%	265.68
70%	282.70
65%	299.74
60%	316.72
55%	334.61
50%	353.17
45%	373.27
40%	394.68
35%	419.88
30%	448.26
25%	481.26
20%	521.05
15%	571.79
10%	640.84
5%	752.81
0%	999.88

End of Forecast

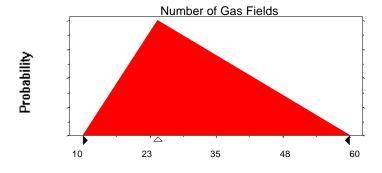
## **Assumptions**

## Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	24
Maximum	60

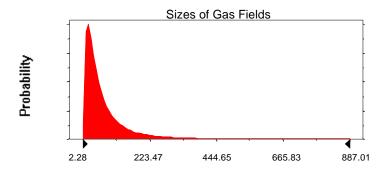
Selected range is from 10 to 60 Mean value in simulation was 31



### **Assumption: Sizes of Gas Fields**

Lognormal distribution with parameter	Shifted parameters		
Mean	73.73	103.73	
Standard Deviation	95.69	95.69	
Selected range is from 0.00 to 970.00	30.00 to 1,000.00		
Mean value in simulation was 72.59	102.59		

## Assumption: Sizes of Gas Fields (cont'd)

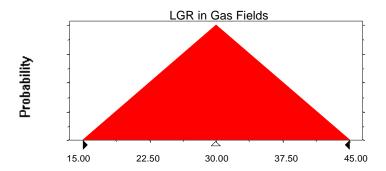


### Assumption: LGR in Gas Fields

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 30.01



**End of Assumptions** 

Simulation started on 12/8/98 at 13:26:56 Simulation stopped on 12/8/98 at 13:47:17