Lower Paleozoic of Southeastern Fold Belt, Assessment Unit 31420402 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			Undiscovered Resources									Largest Undiscovered Field						
Туре	Type MFS Prob. Oil (N		IMBO)		Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)							
.)		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	3	0.70	0	0	0	0	0	0	0	0	0	0	0	0	NA	NA	NA	NA
Gas Fields	18	0.70					0	1,112	3,482	1,273	0	47	160	56	110	319	932	389
Total		0.70	0	0	0	0	0	1,112	3,482	1,273	0	47	160	56				

Forecast: Gas in Gas Fields

Sumr	nary:
	Display range is from 0.00 to 4,500.00 BCFG
	Entire range is from 19.51 to 7,293.71 BCFG
	After 50,000 trials, the standard error of the mean is 4.56

Statistics:	Value
Trials	50000
Mean	1,818.62
Median	1,657.81
Mode	
Standard Deviation	1,020.34
Variance	1,041,091.76
Skewness	0.71
Kurtosis	3.19
Coefficient of Variability	0.56
Range Minimum	19.51
Range Maximum	7,293.71
Range Width	7,274.20
Mean Standard Error	4.56



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

Percentile Percentile	<u>BCFG</u>
100%	19.51
95%	433.59
90%	627.69
85%	768.76
80%	902.81
75%	1,025.66
70%	1,144.48
65%	1,267.81
60%	1,394.18
55%	1,524.39
50%	1,657.81
45%	1,801.06
40%	1,946.49
35%	2,107.95
30%	2,279.58
25%	2,472.52
20%	2,689.33
15%	2,935.64
10%	3,245.09
5%	3,701.86
0%	7,293.71

Forecast: NGL in Gas Fields

Summary:
Display range is from 0.00 to 225.00 MMBNGL
Entire range is from 0.76 to 388.78 MMBNGL
After 50,000 trials, the standard error of the mean is 0.22

Statistics:	<u>Value</u>
Trials	50000
Mean	79.92
Median	70.78
Mode	
Standard Deviation	48.62
Variance	2,363.45
Skewness	0.99
Kurtosis	4.12
Coefficient of Variability	0.61
Range Minimum	0.76
Range Maximum	388.78
Range Width	388.02
Mean Standard Error	0.22



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	0.76
95%	17.85
90%	25.93
85%	32.04
80%	37.68
75%	43.14
70%	48.36
65%	53.51
60%	58.98
55%	64.66
50%	70.78
45%	76.91
40%	83.59
35%	90.76
30%	98.70
25%	107.94
20%	118.07
15%	130.96
10%	146.80
5%	172.44
0%	388.78

Forecast: Largest Gas Field

Summary:
Display range is from 0.00 to 1,100.00 BCFG
Entire range is from 19.51 to 1,499.98 BCFG
After 50,000 trials, the standard error of the mean is 1.15

Statistics:	<u>Value</u>
Trials	50000
Mean	389.36
Median	318.65
Mode	
Standard Deviation	258.00
Variance	66,565.12
Skewness	1.49
Kurtosis	5.36
Coefficient of Variability	0.66
Range Minimum	19.51
Range Maximum	1,499.98
Range Width	1,480.47
Mean Standard Error	1.15

Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	<u>BCFG</u>
100%	19.51
95%	110.34
90%	139.99
85%	164.09
80%	185.69
75%	206.96
70%	227.64
65%	248.61
60%	271.04
55%	293.86
50%	318.65
45%	345.11
40%	375.61
35%	409.30
30%	448.95
25%	496.73
20%	555.17
15%	631.09
10%	741.91
5%	932.11
0%	1,499.98

Forecast: G-Risked Gas in Gas Fields

Summary:
Display range is from 0.00 to 4,500.00 BCFG
Entire range is from 0.00 to 7,293.71 BCFG
After 50,000 trials, the standard error of the mean is 5.34

Statistics:	Value
Trials	50000
Mean	1,272.97
Median	1,112.45
Mode	0.00
Standard Deviation	1,194.29
Variance	1,426,319.93
Skewness	0.71
Kurtosis	2.83
Coefficient of Variability	0.94
Range Minimum	0.00
Range Maximum	7,293.71
Range Width	7,293.71
Mean Standard Error	5.34

Forecast: G-Risked Gas in Gas Fields (cont'd)

Percentiles:

Percentile	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	516.16
60%	744.67
55%	937.07
50%	1,112.45
45%	1,285.64
40%	1,470.15
35%	1,664.31
30%	1,869.20
25%	2,090.55
20%	2,335.46
15%	2,622.72
10%	2,972.95
5%	3,481.79
0%	7,293.71

Forecast: G-Risked NGL in Gas Fields

Summary:
Display range is from 0.00 to 200.00 MMBNGL
Entire range is from 0.00 to 373.63 MMBNGL
After 50,000 trials, the standard error of the mean is 0.25

Statistics:	Value
Trials	50000
Mean	55.98
Median	46.86
Mode	0.00
Standard Deviation	54.86
Variance	3,009.12
Skewness	0.95
Kurtosis	3.62
Coefficient of Variability	0.98
Range Minimum	0.00
Range Maximum	373.63
Range Width	373.63
Mean Standard Error	0.25

Forecast: G-Risked NGL in Gas Fields (cont'd)

Percentiles:

<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	0.00
80%	0.00
75%	0.00
70%	0.00
65%	21.33
60%	31.04
55%	39.22
50%	46.86
45%	54.28
40%	62.28
35%	70.98
30%	80.10
25%	89.85
20%	101.53
15%	114.94
10%	133.22
5%	159.67
0%	373.63

Assumptions

Assumption: Number of Gas Fields

Triangular distribution with parameters:	
Minimum	1
Likeliest	13
Maximum	50

Selected range is from 1 to 50 Mean value in simulation was 21

Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters	
Mean	69.14		87.14
Standard Deviation	132.40		132.4
Selected range is from 0.00 to 1,482.0 Mean value in simulation was 67.26	0	18.00 to 1,	500.00 85.26

Assumption: Sizes of Gas Fields (cont'd)

Assumption: LGR in Gas Fields

Triangular distribution with parameters:	
Minimum	22.00
Likeliest	44.00
Maximum	66.00

Selected range is from 22.00 to 66.00 Mean value in simulation was 43.97

End of Assumptions

Simulation started on 12/30/99 at 17:15:59 Simulation stopped on 12/30/99 at 17:34:01