Devonian Synrift, Assessment Unit 10090102 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]

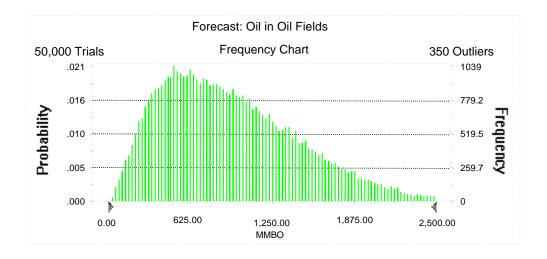
Field	MFS		Undiscovered Resources							Largest Undiscovered Field								
Type		Prob.	Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	7	0.90	0	784	1,886	848	0	1,513	3,957	1,694	0	88	248	102	59	172	507	210
Gas Fields	42	0.30					0	7,252	16,041	7,623	0	280	677	304	481	1,289	3,464	1,525
Total		0.90	0	784	1,886	848	0	8,765	19,998	9,317	0	368	924	405				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,500.00 MMBO Entire range is from 26.64 to 4,292.28 MMBO After 50,000 trials, the standard error of the mean is 2.36

Statistics:	<u>Value</u>
Trials	50000
Mean	943.97
Median	862.55
Mode	
Standard Deviation	527.98
Variance	278,766.78
Skewness	0.75
Kurtosis	3.36
Coefficient of Variability	0.56
Range Minimum	26.64
Range Maximum	4,292.28
Range Width	4,265.65
Mean Standard Error	2.36



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

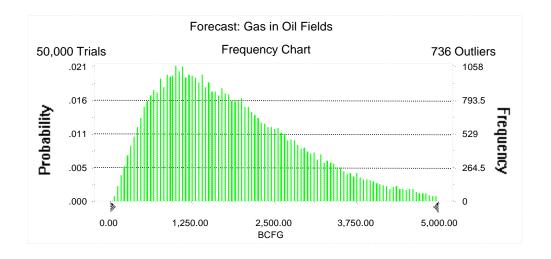
<u>Percentile</u>	MMBO
100%	26.64
95%	238.38
90%	327.25
85%	400.57
80%	468.71
75%	530.47
70%	595.43
65%	658.15
60%	725.00
55%	791.82
50%	862.55
45%	935.83
40%	1,010.61
35%	1,089.55
30%	1,177.56
25%	1,274.54
20%	1,386.58
15%	1,513.24
10%	1,678.20
5%	1,925.02
0%	4,292.28

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 5,000.00 BCFG Entire range is from 38.33 to 9,164.97 BCFG After 50,000 trials, the standard error of the mean is 5.09

Statistics:	<u>Value</u>
Trials	50000
Mean	1,886.37
Median	1,672.56
Mode	
Standard Deviation	1,138.41
Variance	1,295,968.60
Skewness	1.01
Kurtosis	4.22
Coefficient of Variability	0.60
Range Minimum	38.33
Range Maximum	9,164.97
Range Width	9,126.64
Mean Standard Error	5.09



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

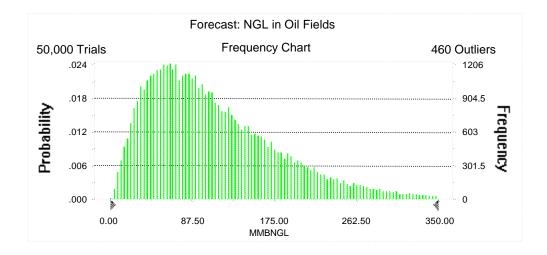
<u>Percentile</u>	<u>BCFG</u>
100%	38.33
95%	447.40
90%	618.75
85%	763.18
80%	895.01
75%	1,019.66
70%	1,140.55
65%	1,265.84
60%	1,397.03
55%	1,531.32
50%	1,672.56
45%	1,819.44
40%	1,978.95
35%	2,141.55
30%	2,329.94
25%	2,538.88
20%	2,777.82
15%	3,068.94
10%	3,444.31
5%	4,043.91
0%	9,164.97

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 350.00 MMBNGL Entire range is from 1.80 to 702.46 MMBNGL After 50,000 trials, the standard error of the mean is 0.33

Statistics:	<u>Value</u>
Trials	50000
Mean	113.14
Median	97.15
Mode	
Standard Deviation	73.30
Variance	5,372.35
Skewness	1.23
Kurtosis	5.08
Coefficient of Variability	0.65
Range Minimum	1.80
Range Maximum	702.46
Range Width	700.66
Mean Standard Error	0.33



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

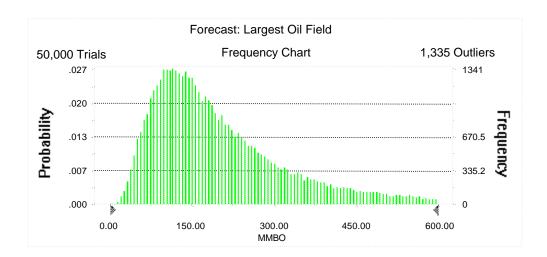
<u>Percentile</u>	MMBNGL
100%	1.80
95%	24.99
90%	34.73
85%	43.11
80%	50.97
75%	58.40
70%	65.73
65%	73.13
60%	81.05
55%	89.10
50%	97.15
45%	106.18
40%	115.69
35%	126.57
30%	138.28
25%	151.94
20%	167.54
15%	187.15
10%	212.21
5%	254.73
0%	702.46

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 600.00 MMBO Entire range is from 11.26 to 799.85 MMBO After 50,000 trials, the standard error of the mean is 0.63

Statistics:	<u>Value</u>
Trials	50000
Mean	210.22
Median	171.78
Mode	
Standard Deviation	140.18
Variance	19,651.42
Skewness	1.52
Kurtosis	5.45
Coefficient of Variability	0.67
Range Minimum	11.26
Range Maximum	799.85
Range Width	788.59
Mean Standard Error	0.63



Forecast: Largest Oil Field (cont'd)

Percentiles:

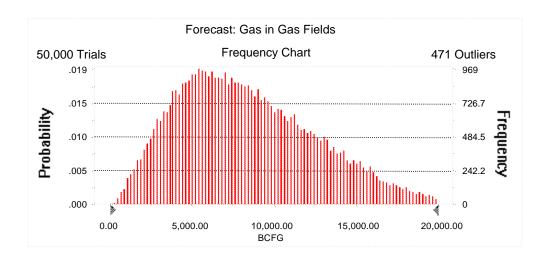
<u>Percentile</u>	MMBO
100%	11.26
95%	58.58
90%	75.34
85%	88.77
80%	100.59
75%	111.88
70%	122.86
65%	134.46
60%	146.20
55%	158.21
50%	171.78
45%	186.12
40%	202.50
35%	220.64
30%	241.86
25%	266.71
20%	297.45
15%	340.00
10%	399.33
5%	506.71
0%	799.85

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 20,000.00 BCFG Entire range is from 332.53 to 33,914.19 BCFG After 50,000 trials, the standard error of the mean is 19.27

Statistics:	<u>Value</u>
Trials	50000
Mean	8,480.64
Median	7,892.77
Mode	
Standard Deviation	4,308.29
Variance	18,561,393.35
Skewness	0.63
Kurtosis	3.11
Coefficient of Variability	0.51
Range Minimum	332.53
Range Maximum	33,914.19
Range Width	33,581.66
Mean Standard Error	19.27



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

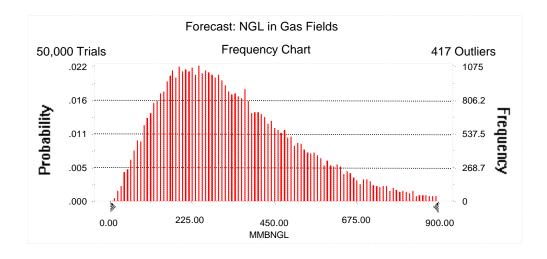
<u>Percentile</u>	<u>BCFG</u>
100%	332.53
95%	2,455.51
90%	3,323.13
85%	4,014.59
80%	4,623.27
75%	5,182.77
70%	5,711.31
65%	6,234.71
60%	6,778.86
55%	7,331.18
50%	7,892.77
45%	8,491.00
40%	9,095.91
35%	9,755.63
30%	10,477.18
25%	11,275.64
20%	12,177.95
15%	13,197.66
10%	14,471.74
5%	16,290.81
0%	33,914.19

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 900.00 MMBNGL Entire range is from 11.89 to 1,518.93 MMBNGL After 50,000 trials, the standard error of the mean is 0.84

Statistics:	<u>Value</u>
Trials	50000
Mean	338.09
Median	305.15
Mode	
Standard Deviation	187.85
Variance	35,286.11
Skewness	0.89
Kurtosis	3.85
Coefficient of Variability	0.56
Range Minimum	11.89
Range Maximum	1,518.93
Range Width	1,507.04
Mean Standard Error	0.84



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

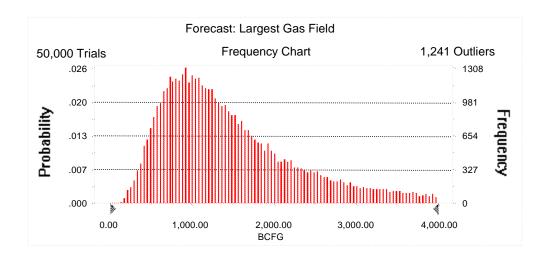
<u>Percentile</u>	<u>MN</u>	1BNGL
100%		11.89
95%		91.76
90%		124.04
85%		151.21
80%		173.94
75%		195.79
70%	:	217.48
65%	:	239.22
60%		260.91
55%		282.87
50%		305.15
45%		329.57
40%		356.12
35%		382.80
30%		413.92
25%		448.19
20%		487.85
15%		535.91
10%		598.52
5%		694.16
0%	1,	518.93

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 4,000.00 BCFG Entire range is from 97.43 to 4,999.26 BCFG After 50,000 trials, the standard error of the mean is 4.09

Statistics:	<u>Value</u>
Trials	50000
Mean	1,524.73
Median	1,288.61
Mode	
Standard Deviation	914.95
Variance	837,138.80
Skewness	1.28
Kurtosis	4.48
Coefficient of Variability	0.60
Range Minimum	97.43
Range Maximum	4,999.26
Range Width	4,901.83
Mean Standard Error	4.09



Forecast: Largest Gas Field (cont'd)

Percentiles:

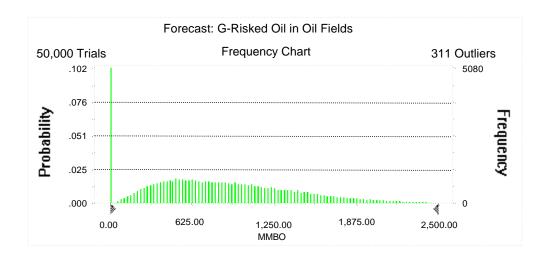
Daraantila	DOEC
<u>Percentile</u>	<u>BCFG</u>
100%	97.43
95%	481.26
90%	600.51
85%	698.18
80%	780.82
75%	864.54
70%	943.76
65%	1,026.78
60%	1,107.97
55%	1,196.15
50%	1,288.61
45%	1,390.55
40%	1,498.94
35%	1,622.54
30%	1,764.58
25%	1,939.21
20%	2,156.15
15%	2,438.25
10%	2,821.63
5%	3,463.71
0%	4,999.26

Forecast: G-Risked Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,500.00 MMBO Entire range is from 0.00 to 4,292.28 MMBO After 50,000 trials, the standard error of the mean is 2.57

Statistics:	<u>Value</u>
Trials	50000
Mean	847.68
Median	783.78
Mode	0.00
Standard Deviation	575.18
Variance	330,832.86
Skewness	0.58
Kurtosis	3.08
Coefficient of Variability	0.68
Range Minimum	0.00
Range Maximum	4,292.28
Range Width	4,292.28
Mean Standard Error	2.57



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

Percentiles:

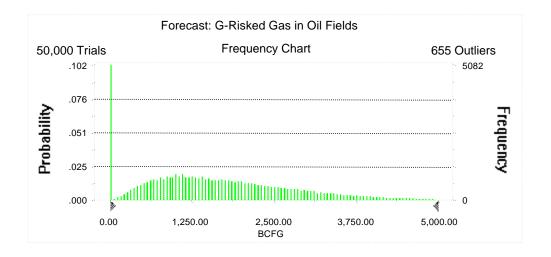
<u>Percentile</u>	MMBO
100%	0.00
95%	0.00
90%	0.00
85%	246.47
80%	341.85
75%	421.52
70%	496.23
65%	564.74
60%	635.22
55%	708.68
50%	783.78
45%	861.77
40%	943.42
35%	1,027.50
30%	1,117.39
25%	1,218.50
20%	1,333.75
15%	1,465.73
10%	1,634.90
5%	1,886.40
0%	4,292.28

Forecast: G-Risked Gas in Oil Fields

Summary:

Display range is from 0.00 to 5,000.00 BCFG Entire range is from 0.00 to 9,164.97 BCFG After 50,000 trials, the standard error of the mean is 5.45

<u>Value</u>
50000
1,693.77
1,512.71
0.00
1,218.71
1,485,265.56
0.84
3.83
0.72
0.00
9,164.97
9,164.97
5.45



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

Percentiles:

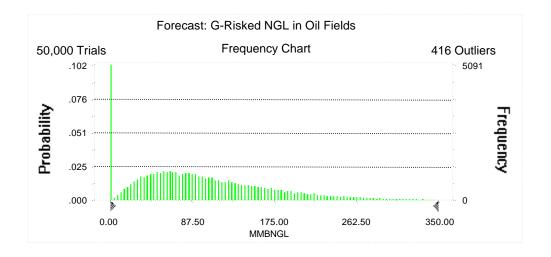
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	461.42
80%	646.22
75%	802.04
70%	947.60
65%	1,083.09
60%	1,222.21
55%	1,362.84
50%	1,512.71
45%	1,670.80
40%	1,835.16
35%	2,011.11
30%	2,197.17
25%	2,416.42
20%	2,662.09
15%	2,958.50
10%	3,348.05
5%	3,957.23
0%	9,164.97

Forecast: G-Risked NGL in Oil Fields

Summary:

Display range is from 0.00 to 350.00 MMBNGL Entire range is from 0.00 to 702.46 MMBNGL After 50,000 trials, the standard error of the mean is 0.35

Statistics:	<u>Value</u>
Trials	50000
Mean	101.60
Median	87.99
Mode	0.00
Standard Deviation	77.35
Variance	5,983.36
Skewness	1.07
Kurtosis	4.66
Coefficient of Variability	0.76
Range Minimum	0.00
Range Maximum	702.46
Range Width	702.46
Mean Standard Error	0.35



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

Percentiles:

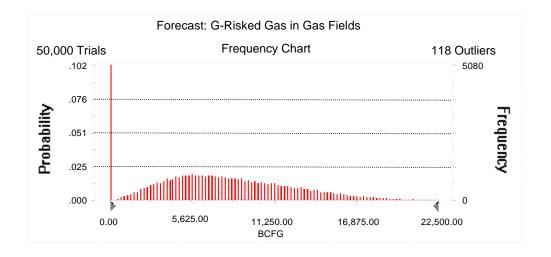
<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	25.81
80%	36.53
75%	45.67
70%	54.31
65%	62.39
60%	70.50
55%	79.20
50%	87.99
45%	96.99
40%	106.95
35%	117.70
30%	130.02
25%	144.07
20%	160.18
15%	179.54
10%	205.45
5%	247.72
0%	702.46

Forecast: G-Risked Gas in Gas Fields

Summary:

Display range is from 0.00 to 22,500.00 BCFG Entire range is from 0.00 to 33,914.19 BCFG After 50,000 trials, the standard error of the mean is 21.57

Statistics:	<u>Value</u>
Trials	50000
Mean	7,622.83
Median	7,252.07
Mode	0.00
Standard Deviation	4,822.68
Variance	23,258,254.49
Skewness	0.39
Kurtosis	2.83
Coefficient of Variability	0.63
Range Minimum	0.00
Range Maximum	33,914.19
Range Width	33,914.19
Mean Standard Error	21.57



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

Percentiles:

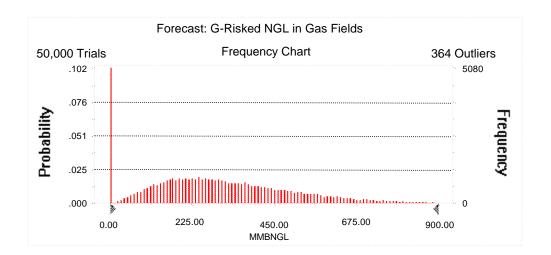
<u>Percentile</u>	<u>BCFG</u>
100%	0.00
95%	0.00
90%	0.00
85%	2,536.46
80%	3,456.52
75%	4,203.83
70%	4,866.23
65%	5,467.57
60%	6,053.99
55%	6,654.06
50%	7,252.07
45%	7,881.38
40%	8,544.69
35%	9,226.48
30%	9,993.79
25%	10,834.02
20%	11,760.12
15%	12,855.54
10%	14,172.86
5%	16,041.18
0%	33,914.19

Forecast: G-Risked NGL in Gas Fields

Summary:

Display range is from 0.00 to 900.00 MMBNGL Entire range is from 0.00 to 1,518.93 MMBNGL After 50,000 trials, the standard error of the mean is 0.92

Statistics:	<u>Value</u>
Trials	50000
Mean	303.80
Median	279.92
Mode	0.00
Standard Deviation	205.17
Variance	42,095.54
Skewness	0.66
Kurtosis	3.43
Coefficient of Variability	0.68
Range Minimum	0.00
Range Maximum	1,518.93
Range Width	1,518.93
Mean Standard Error	0.92



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

Percentiles:

<u>Percentile</u>	MMBNGL
100%	0.00
95%	0.00
90%	0.00
85%	94.54
80%	129.46
75%	158.10
70%	183.10
65%	207.52
60%	231.30
55%	255.73
50%	279.92
45%	304.90
40%	332.09
35%	361.72
30%	392.98
25%	428.76
20%	469.83
15%	518.53
10%	582.27
5%	676.71
0%	1,518.93

Assumptions

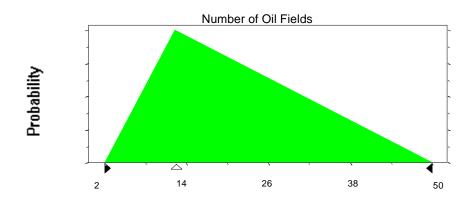
50

Assumption: Number of Oil Fields

Maximum

i riangular distribution with parameters:	
Minimum	2
Likeliest	13

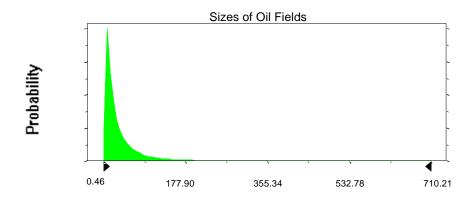
Selected range is from 2 to 50 Mean value in simulation was 21



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	38.12	45.12
Standard Deviation	71.17	71.17
Selected range is from 0.00 to 793.00		7.00 to 800.00
Mean value in simulation was 36.73	43.73	

Assumption: Sizes of Oil Fields (cont'd)

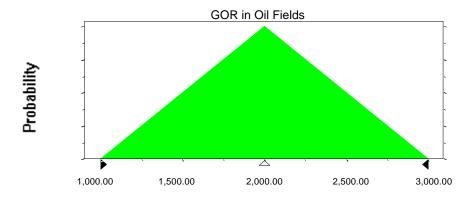


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	1,000.00
Likeliest	2,000.00
Maximum	3,000.00

Selected range is from 1,000.00 to 3,000.00 Mean value in simulation was 2,001.73

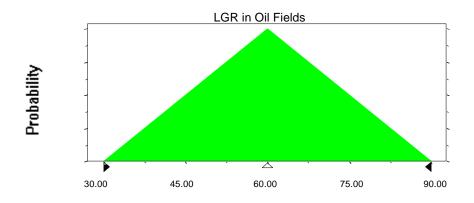


Assumption: LGR in Oil Fields

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 59.96



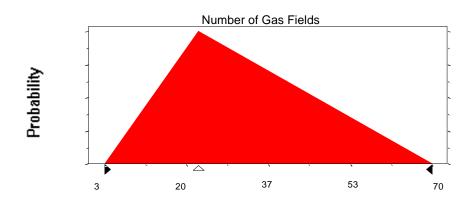
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	3
Likeliest	22
Maximum	70

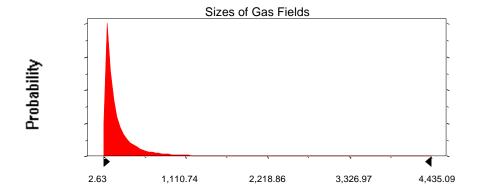
Selected range is from 3 to 70 Mean value in simulation was 32

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	232.51	274.51
Standard Deviation	443.29	443.29
Selected range is from 0.00 to 4,	42.00 to 5,000.00	
Mean value in simulation was 22	269.04	

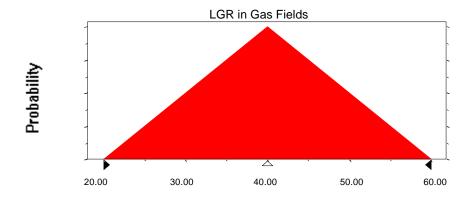


Assumption: LGR in Gas Fields

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 39.90



End of Assumptions

Simulation started on 5/27/99 at 13:17:23 Simulation stopped on 5/27/99 at 13:47:03