Kolguyev Terrace, Assessment Unit 10500101 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]

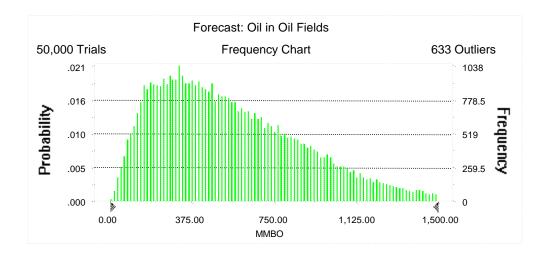
Field	MFS	S Prob.	Undiscovered Resources						Largest Undiscovered Field									
Type			Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. , , , ,		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	10		121	500	1,216	563	290	1,226	3,128	1,406	16	71	197	84	34	109	377	143
Gas Fields		1.00					3,612	14,574	33,745	16,148	135	566	1,429	647	695	2,364	7,136	2,910
Total		1.00	121	500	1,216	563	3,902	15,799	36,873	17,554	151	637	1,626	731				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,500.00 MMBO Entire range is from 10.44 to 2,509.01 MMBO After 50,000 trials, the standard error of the mean is 1.54

Statistics:	<u>Value</u>
Trials	50000
Mean	562.52
Median	500.19
Mode	
Standard Deviation	345.31
Variance	119,242.21
Skewness	0.87
Kurtosis	3.61
Coefficient of Variability	0.61
Range Minimum	10.44
Range Maximum	2,509.01
Range Width	2,498.57
Mean Standard Error	1.54



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

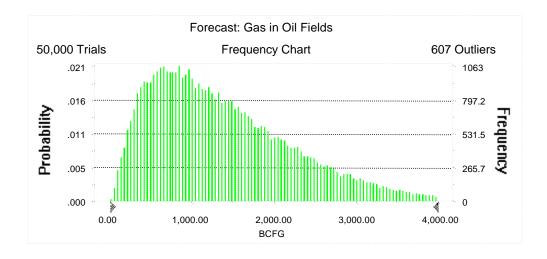
Percentile	MMBO
100%	10.44
95%	121.07
90%	168.43
85%	210.94
80%	252.19
75%	293.06
70%	331.17
65%	371.27
60%	412.32
55%	455.36
50%	500.19
45%	545.56
40%	595.97
35%	650.45
30%	708.49
25%	773.76
20%	848.19
15%	932.41
10%	1,041.82
5%	1,216.21
0%	2,509.01

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 4,000.00 BCFG Entire range is from 19.64 to 7,676.39 BCFG After 50,000 trials, the standard error of the mean is 4.04

Statistics:	<u>Value</u>
Trials	50000
Mean	1,405.99
Median	1,225.53
Mode	
Standard Deviation	903.29
Variance	815,935.23
Skewness	1.05
Kurtosis	4.28
Coefficient of Variability	0.64
Range Minimum	19.64
Range Maximum	7,676.39
Range Width	7,656.74
Mean Standard Error	4.04



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

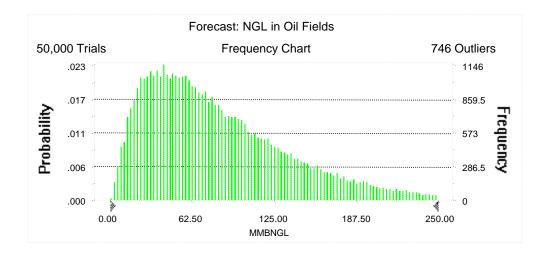
<u>Percentile</u>	<u>BCFG</u>
100%	19.64
95%	290.11
90%	408.16
85%	514.27
80%	613.32
75%	709.68
70%	807.00
65%	905.64
60%	1,004.25
55%	1,111.51
50%	1,225.53
45%	1,344.76
40%	1,471.02
35%	1,603.83
30%	1,750.44
25%	1,920.74
20%	2,117.41
15%	2,348.57
10%	2,656.35
5%	3,127.76
0%	7,676.39

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 250.00 MMBNGL Entire range is from 0.79 to 534.89 MMBNGL After 50,000 trials, the standard error of the mean is 0.26

Statistics:	<u>Value</u>
Trials	50000
Mean	84.46
Median	71.26
Mode	
Standard Deviation	58.03
Variance	3,367.49
Skewness	1.27
Kurtosis	5.19
Coefficient of Variability	0.69
Range Minimum	0.79
Range Maximum	534.89
Range Width	534.10
Mean Standard Error	0.26



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

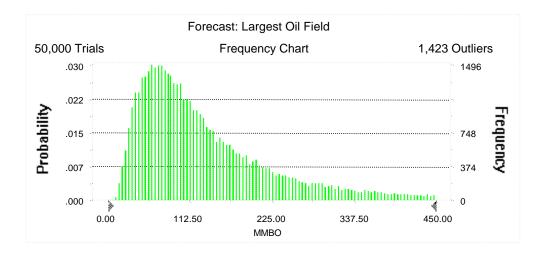
<u>Percentile</u>	MMBNG	L
100%	0.7	9
95%	16.2	0
90%	23.2	4
85%	29.1	8
80%	35.0	3
75%	40.7	8
70%	46.6	0
65%	52.4	
60%	58.3	
55%	64.5	8
50%	71.2	
45%	78.3	
40%	86.0	
35%	94.7	
30%	103.8	
25%	114.8	
20%	127.3	
15%	142.9	
10%	164.0	
5%	196.9	
0%	534.8	9

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 450.00 MMBO Entire range is from 10.44 to 700.00 MMBO After 50,000 trials, the standard error of the mean is 0.50

Statistics:	<u>Value</u>
Trials	50000
Mean	142.88
Median	109.18
Mode	
Standard Deviation	111.72
Variance	12,482.44
Skewness	1.89
Kurtosis	7.25
Coefficient of Variability	0.78
Range Minimum	10.44
Range Maximum	700.00
Range Width	689.56
Mean Standard Error	0.50



Forecast: Largest Oil Field (cont'd)

Percentiles:

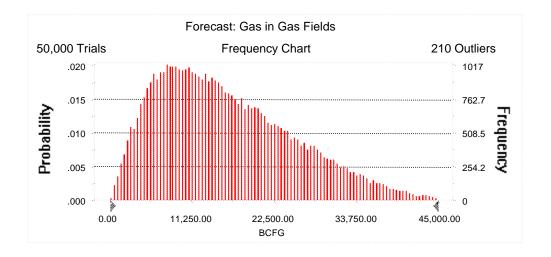
<u>Percentile</u>	MMBO
100%	10.44
95%	33.87
90%	43.67
85%	52.03
80%	59.88
75%	67.47
70%	75.02
65%	82.86
60%	90.98
55%	99.71
50%	109.18
45%	119.54
40%	131.13
35%	144.69
30%	161.08
25%	180.51
20%	204.85
15%	237.47
10%	287.90
5%	377.06
0%	700.00

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 45,000.00 BCFG Entire range is from 202.19 to 62,404.62 BCFG After 50,000 trials, the standard error of the mean is 42.06

Statistics:	<u>Value</u>
Trials	50000
Mean	16,147.73
Median	14,573.96
Mode	
Standard Deviation	9,405.12
Variance	88,456,276.86
Skewness	0.70
Kurtosis	3.07
Coefficient of Variability	0.58
Range Minimum	202.19
Range Maximum	62,404.62
Range Width	62,202.43
Mean Standard Error	42.06



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

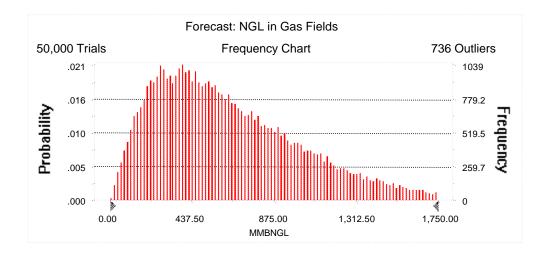
<u>Percentile</u>	<u>BCFG</u>
100%	202.19
95%	3,611.74
90%	5,170.16
85%	6,395.51
80%	7,595.99
75%	8,704.79
70%	9,829.94
65%	10,982.69
60%	12,143.88
55%	13,350.44
50%	14,573.96
45%	15,883.52
40%	17,280.50
35%	18,803.86
30%	20,415.54
25%	22,190.12
20%	24,227.45
15%	26,625.91
10%	29,521.23
5%	33,744.97
0%	62,404.62

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 1,750.00 MMBNGL Entire range is from 8.80 to 2,981.64 MMBNGL After 50,000 trials, the standard error of the mean is 1.82

Statistics:	<u>Value</u>
Trials	50000
Mean	646.74
Median	565.64
Mode	
Standard Deviation	405.93
Variance	164,780.67
Skewness	0.96
Kurtosis	3.86
Coefficient of Variability	0.63
Range Minimum	8.80
Range Maximum	2,981.64
Range Width	2,972.84
Mean Standard Error	1.82



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

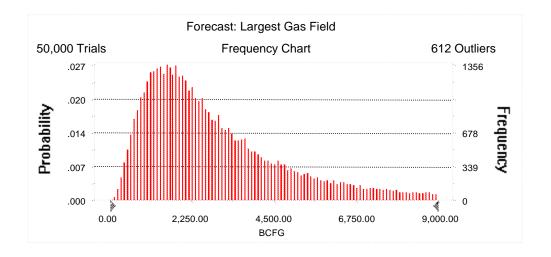
<u>Percentile</u>	<u>MMBNGI</u>
100%	8.80
95%	135.28
90%	195.6
85%	243.98
80%	288.74
75%	333.94
70%	379.69
65%	422.91
60%	468.46
55%	517.65
50%	565.64
45%	618.53
40%	675.4
35%	739.2
30%	806.53
25%	884.34
20%	971.36
15%	1,076.24
10%	1,210.60
5%	1,429.15
0%	2,981.64

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 9,000.00 BCFG Entire range is from 100.10 to 9,999.96 BCFG After 50,000 trials, the standard error of the mean is 8.82

Statistics:	<u>Value</u>
Trials	50000
Mean	2,909.92
Median	2,363.73
Mode	
Standard Deviation	1,973.30
Variance	3,893,925.83
Skewness	1.25
Kurtosis	4.24
Coefficient of Variability	0.68
Range Minimum	100.10
Range Maximum	9,999.96
Range Width	9,899.86
Mean Standard Error	8.82



Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	BCFG
100%	100.10
95%	695.46
90%	927.29
85%	1,118.14
80%	1,291.56
75%	1,460.91
70%	1,630.05
65%	1,805.48
60%	1,979.31
55%	2,162.69
50%	2,363.73
45%	2,588.65
40%	2,839.68
35%	3,120.32
30%	3,445.29
25%	3,817.38
20%	4,309.06
15%	4,913.78
10%	5,764.28
5%	7,135.96
0%	9,999.96

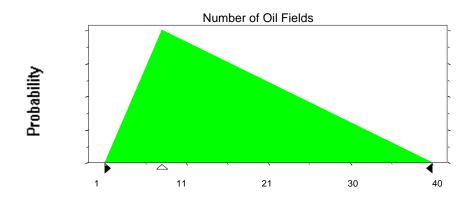
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	1
Likeliest	8
Maximum	40

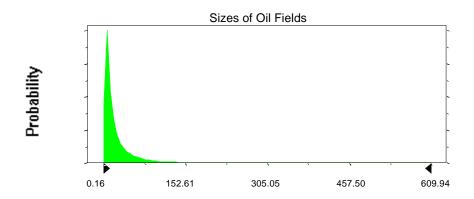
Selected range is from 1 to 40 Mean value in simulation was 16



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:	Shifted parameters		
Mean	25.57	35	5.57
Standard Deviation	60.17	60).17
Selected range is from 0.00 to 690.00		10.00 to 700	0.00
Mean value in simulation was 24.49	34	1.49	

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

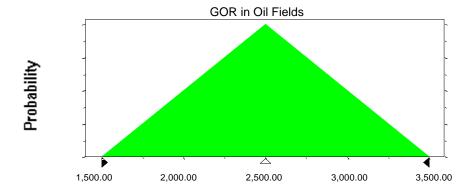
Triangular distribution with parameters:

 Minimum
 1,500.00

 Likeliest
 2,500.00

 Maximum
 3,500.00

Selected range is from 1,500.00 to 3,500.00 Mean value in simulation was 2,500.29



Assumption: LGR in Oil Fields

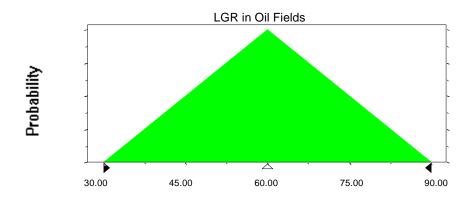
Triangular distribution with parameters:

 Minimum
 30.00

 Likeliest
 60.00

 Maximum
 90.00

Selected range is from 30.00 to 90.00 Mean value in simulation was 60.03



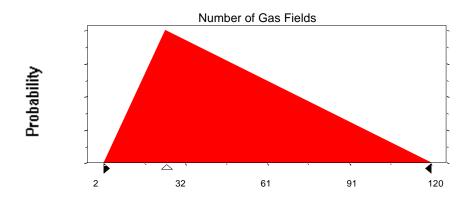
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum2Likeliest25Maximum120

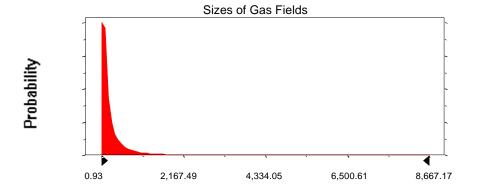
Selected range is from 2 to 120 Mean value in simulation was 49

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	286.81	346.81
Standard Deviation	867.81	867.81
Selected range is from 0.00 to 9,	60.00 to 10,000.00	
Mean value in simulation was 27	334.99	

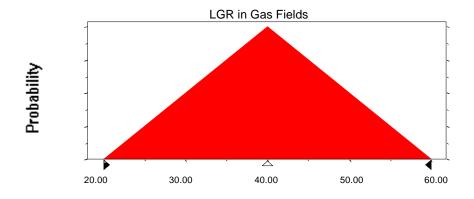


Assumption: LGR in Gas Fields

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 40.06



End of Assumptions

Simulation started on 1/28/00 at 14:26:26 Simulation stopped on 1/28/00 at 15:08:29