Ardjuna, Assessment Unit 38240201 Assessment Results Summary

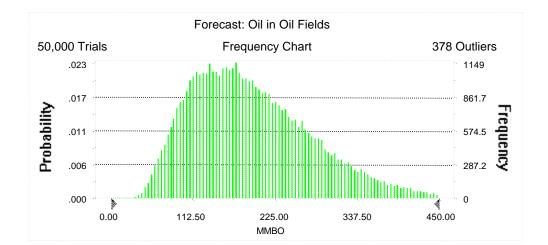
[MMBO, million barrels of oil. BCFG, billion cubic feet of gas. MMBNGL, million barrels of natural gas liquids. MFS, minimum field size assessed (MMBO or BCFG). Prob., probability (including both geologic and accessibility probabilities) of at least one field equal to or greater than the MFS. Results 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	MFS	Prob.	Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. , p o		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	1		81	183	353	195	147	356	752	391	0	21	48	23	14	34	98	42
		1.00	01	103	303	195			-		0		-	-		_		
Gas Fields	6						2,630	5,899	10,663	6,188	23	59	132	66	349	810	1,925	926
Total		1.00	81	183	353	195	2,777	6,255	11,414	6,579	31	79	180	89				

Forecast: Oil in Oil Fields

Summary:
Display range is from 0.00 to 450.00 MMBO
Entire range is from 22.29 to 676.17 MMBO
After 50,000 trials, the standard error of the mean is 0.38

Statistics: Trials Mean Median	<u>Value</u> 50000 195.47 182.60
Mode	
Standard Deviation	84.87
Variance	7,203.22
Skewness	0.79
Kurtosis	3.63
Coefficient of Variability	0.43
Range Minimum	22.29
Range Maximum	676.17
Range Width	653.89
Mean Standard Error	0.38



Forecast: Oil in Oil Fields (cont'd)

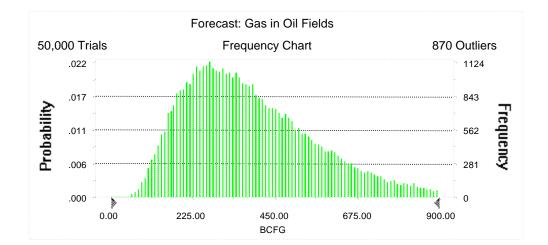
Percentiles:

Percentile	ММВО
100%	22.29
95%	80.72
90%	96.82
85%	109.57
80%	120.36
75%	130.95
70%	141.27
65%	151.76
60%	162.03
55%	172.33
50%	182.60
45%	193.80
40%	205.56
35%	218.01
30%	231.71
25%	246.83
20%	263.91
15%	284.54
10%	311.64
5%	353.17
0%	676.17

Forecast: Gas in Oil Fields

Summary: Display range is from 0.00 to 900.00 BCFG Entire range is from 37.89 to 1,754.08 BCFG After 50,000 trials, the standard error of the mean is 0.85

Statistics:	<u>Value</u>
Trials	50000
Mean	391.30
Median	356.20
Mode	
Standard Deviation	191.09
Variance	36,515.16
Skewness	1.05
Kurtosis	4.52
Coefficient of Variability	0.49
Range Minimum	37.89
Range Maximum	1,754.08
Range Width	1,716.19
Mean Standard Error	0.85



Forecast: Gas in Oil Fields (cont'd)

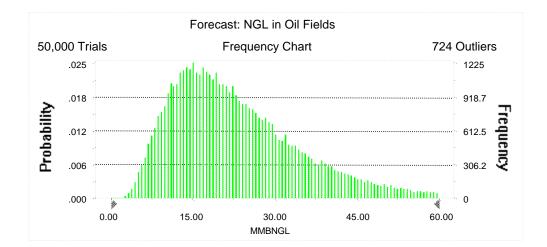
Percentiles:

Percentile	BCFG
100%	37.89
95%	146.90
90%	179.48
85%	205.07
80%	228.42
75%	249.52
70%	270.52
65%	291.11
60%	312.19
55%	334.03
50%	356.20
45%	379.86
40%	404.81
35%	432.80
30%	463.63
25%	497.17
20%	536.74
15%	585.62
10%	648.93
5%	751.78
0%	1,754.08

Forecast: NGL in Oil Fields

Summary: Display range is from 0.00 to 60.00 MMBNGL Entire range is from 1.40 to 132.04 MMBNGL After 50,000 trials, the standard error of the mean is 0.06

Statistics:	<u>Value</u>
Trials	50000
Mean	23.50
Median	20.88
Mode	
Standard Deviation	12.70
Variance	161.32
Skewness	1.30
Kurtosis	5.69
Coefficient of Variability	0.54
Range Minimum	1.40
Range Maximum	132.04
Range Width	130.64
Mean Standard Error	0.06



Forecast: NGL in Oil Fields (cont'd)

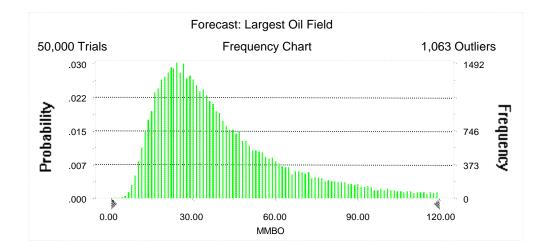
Percentiles:

Percentile	MMBNGL
100%	1.40
95%	8.03
90%	10.01
85%	11.54
80%	12.95
75%	14.24
70%	15.50
65%	16.81
60%	18.11
55%	19.45
50%	20.88
45%	22.39
40%	24.00
35%	25.78
30%	27.74
25%	29.88
20%	32.60
15%	35.91
10%	40.52
5%	47.81
0%	132.04

Forecast: Largest Oil Field

Summary:
Display range is from 0.00 to 120.00 MMBO
Entire range is from 3.78 to 149.87 MMBO
After 50,000 trials, the standard error of the mean is 0.12

Statistics: Trials Mean	<u>Value</u> 50000 41.95
Median	34.45
Mode	
Standard Deviation	26.41
Variance	697.46
Skewness	1.48
Kurtosis	5.20
Coefficient of Variability	0.63
Range Minimum	3.78
Range Maximum	149.87
Range Width	146.09
Mean Standard Error	0.12



Forecast: Largest Oil Field (cont'd)

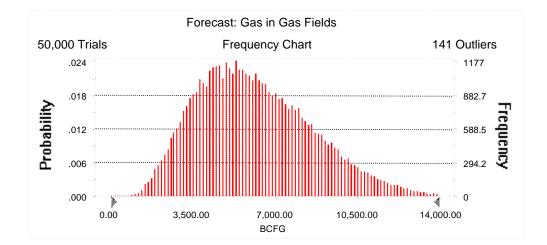
Percentiles:

Percentile	MMBO
100%	3.78
95%	13.63
90%	16.60
85%	18.98
80%	21.19
75%	23.28
70%	25.36
65%	27.43
60%	29.65
55%	31.97
50%	34.45
45%	37.16
40%	40.17
35%	43.76
30%	47.84
25%	52.83
20%	58.96
15%	67.18
10%	78.68
5%	98.20
0%	149.87

Forecast: Gas in Gas Fields

Summary:
Display range is from 0.00 to 14,000.00 BCFG
Entire range is from 763.35 to 18,002.77 BCFG
After 50,000 trials, the standard error of the mean is 11.07

Statistics: Trials Mean	<u>Value</u> 50000 6,187.72
Median Mode	5,898.73
Standard Deviation	2,475.72
Variance	6,129,201.44
Skewness Kurtosis	0.55 3.03
Coefficient of Variability	0.40
Range Minimum	763.35
Range Maximum	18,002.77
Range Width Mean Standard Error	17,239.42 11.07



Forecast: Gas in Gas Fields (cont'd)

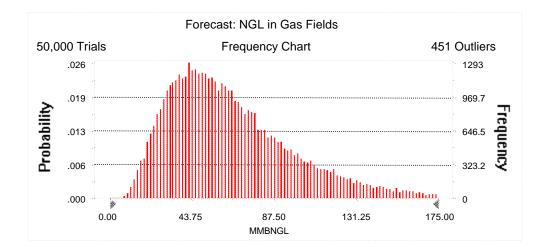
Percentiles:

Percentile	BCFG
100%	763.35
95%	2,630.29
90%	3,190.12
85%	3,613.49
80%	3,975.50
75%	4,322.52
70%	4,632.77
65%	4,954.60
60%	5,268.51
55%	5,575.91
50%	5,898.73
45%	6,239.75
40%	6,584.42
35%	6,967.15
30%	7,370.43
25%	7,808.38
20%	8,285.43
15%	8,859.69
10%	9,579.50
5%	10,662.68
0%	18,002.77

Forecast: NGL in Gas Fields

Summary:
Display range is from 0.00 to 175.00 MMBNGL
Entire range is from 5.33 to 330.66 MMBNGL
After 50,000 trials, the standard error of the mean is 0.15

Statistics: Trials	<u>Value</u> 50000
Mean	65.50
Median	58.61
Mode	
Standard Deviation	34.55
Variance	1,193.88
Skewness	1.15
Kurtosis	4.74
Coefficient of Variability	0.53
Range Minimum	5.33
Range Maximum	330.66
Range Width	325.32
Mean Standard Error	0.15



Forecast: NGL in Gas Fields (cont'd)

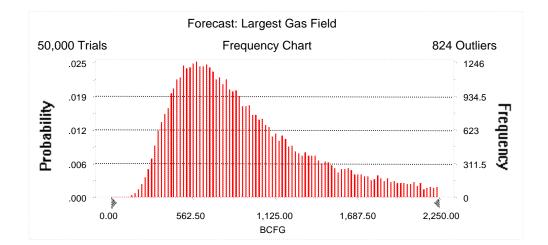
Percentiles:

Percentile	MMBNGL
100%	5.33
95%	22.60
90%	28.17
85%	32.55
80%	36.43
75%	40.16
70%	43.75
65%	47.31
60%	50.97
55%	54.69
50%	58.61
45%	62.66
40%	66.94
35%	71.80
30%	77.10
25%	83.37
20%	90.90
15%	100.27
10%	112.88
5%	132.46
0%	330.66

Forecast: Largest Gas Field

Summary:
Display range is from 0.00 to 2,250.00 BCFG
Entire range is from 87.36 to 2,499.95 BCFG
After 50,000 trials, the standard error of the mean is 2.14

Statistics: Trials Mean Median	<u>Value</u> 50000 926.05 810.43
Mode	
Standard Deviation	478.93
Variance	229,372.84
Skewness	1.02
Kurtosis	3.58
Coefficient of Variability	0.52
Range Minimum	87.36
Range Maximum	2,499.95
Range Width	2,412.60
Mean Standard Error	2.14



Forecast: Largest Gas Field (cont'd)

Percentiles:

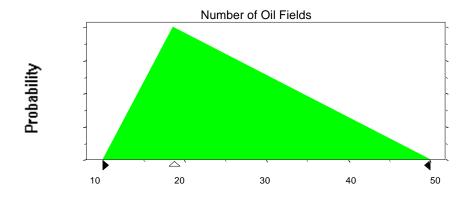
Percentile	BCFG
100%	87.36
95%	349.13
90%	418.08
85%	472.56
80%	520.79
75%	567.85
70%	613.10
65%	660.38
60%	706.87
55%	757.37
50%	810.43
45%	867.54
40%	929.89
35%	1,000.03
30%	1,079.22
25%	1,176.37
20%	1,292.25
15%	1,437.40
10%	1,634.81
5%	1,925.28
0%	2,499.95

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:	
Minimum	10
Likeliest	19
Maximum	50

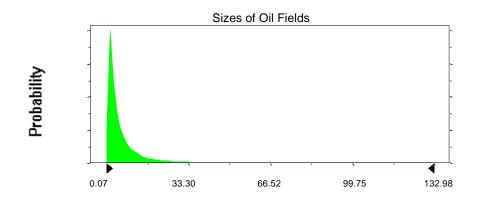
Selected range is from 10 to 50 Mean value in simulation was 26



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	6.67	7.67
Standard Deviation	13.24	13.24
Selected range is from 0.00 to 149.00 Mean value in simulation was 6.44		1.00 to 150.00 7.44

Assumption: Sizes of Oil Fields (cont'd)

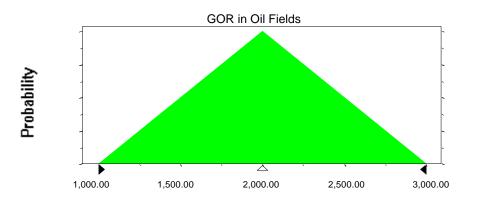


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

0	•
Minimum	1,000.00
Likeliest	2,000.00
Maximum	3,000.00

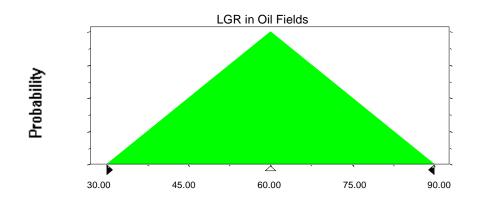
Selected range is from 1,000.00 to 3,000.00 Mean value in simulation was 2,001.68



Assumption: LGR in Oil Fields

Triangular distribution with parameters:	
Minimum	30.00
Likeliest	60.00
Maximum	90.00

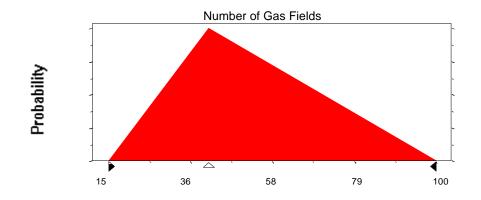
Selected range is from 30.00 to 90.00 Mean value in simulation was 60.01



Assumption: Number of Gas Fields

Triangular distribution with parameters:	
Minimum	15
Likeliest	41
Maximum	100

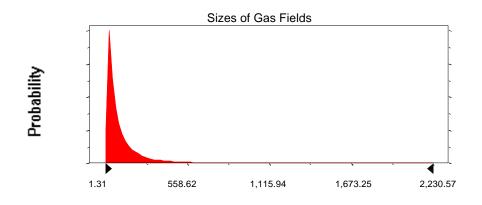
Selected range is from 15 to 100 Mean value in simulation was 52



Assumption: Number of Gas Fields (cont'd)

Assumption: Sizes of Gas Fields

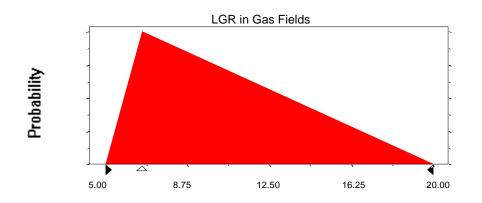
Lognormal distribution with parameters:		Shifted parameters	
Mean	116.54	122.54	
Standard Deviation	222.87	222.87	
Selected range is from 0.00 to 2,494.0 Mean value in simulation was 111.43	0	6.00 to 2,500.00 117.43	



Assumption: LGR in Gas Fields

Triangular distribution with parameters:	
Minimum	5.00
Likeliest	6.67
Maximum	20.00

Selected range is from 5.00 to 20.00 Mean value in simulation was 10.58



End of Assumptions

Simulation started on 5/28/99 at 16:26:27 Simulation stopped on 5/28/99 at 17:08:26