Sunda/Asri, Assessment Unit 38240101 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]

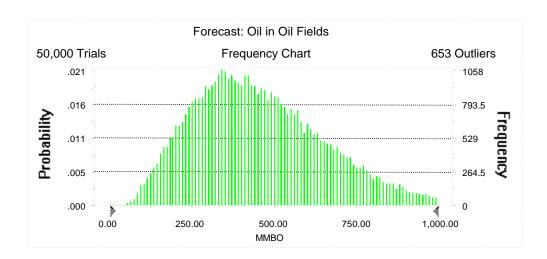
Field			Undiscovere							ed Resources					Largest Undiscovered Field			
Type	MFS	Prob.	_	Oil (M	IMBO)		_	Gas (F	BCFG)			NGL (MN	/BNGL)			(MMBO o	r BCFG)	
.) 0		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	1	1.00	170	435	839	462	94	255	536	277	2	6	14	7	28	75	214	91
Gas Fields	6	1.00					139	528	1,299	597	3	10	27	12	44	142	479	184
Total		1.00	170	435	839	462	233	783	1,835	874	5	16	41	19				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 1,000.00 MMBO Entire range is from 42.65 to 1,793.27 MMBO After 50,000 trials, the standard error of the mean is 0.92

Statistics:	<u>Value</u>
Trials	50000
Mean	462.12
Median	435.29
Mode	
Standard Deviation	206.11
Variance	42,481.34
Skewness	0.68
Kurtosis	3.44
Coefficient of Variability	0.45
Range Minimum	42.65
Range Maximum	1,793.27
Range Width	1,750.63
Mean Standard Error	0.92



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

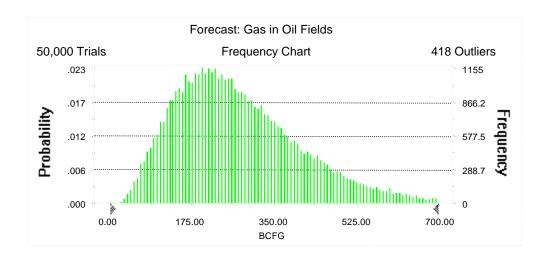
<u>Percentile</u>	MMBC
100%	42.65
95%	170.12
90%	216.29
85%	251.44
80%	281.56
75%	309.48
70%	335.24
65%	359.14
60%	383.88
55%	410.28
50%	435.29
45%	462.76
40%	491.3
35%	520.5
30%	553.58
25%	588.82
20%	631.17
15%	680.84
10%	742.5
5%	839.43
0%	1,793.27

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 700.00 BCFG Entire range is from 18.71 to 1,147.58 BCFG After 50,000 trials, the standard error of the mean is 0.62

Statistics:	<u>Value</u>
Trials	50000
Mean	277.45
Median	254.92
Mode	
Standard Deviation	137.77
Variance	18,979.87
Skewness	0.93
Kurtosis	4.11
Coefficient of Variability	0.50
Range Minimum	18.71
Range Maximum	1,147.58
Range Width	1,128.86
Mean Standard Error	0.62



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

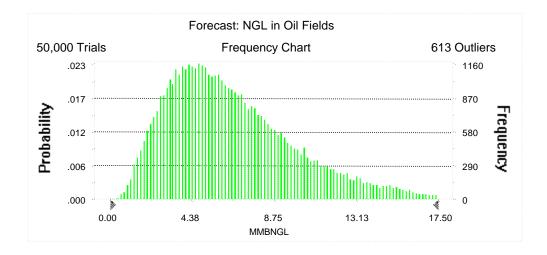
Percentile	<u>BCFG</u>
100%	18.71
95%	94.22
90%	120.67
85%	140.96
80%	159.12
75%	175.59
70%	191.79
65%	207.24
60%	222.94
55%	238.50
50%	254.92
45%	271.78
40%	290.13
35%	309.91
30%	331.45
25%	355.62
20%	383.64
15%	419.47
10%	464.07
5%	536.45
0%	1,147.58

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 17.50 MMBNGL Entire range is from 0.37 to 35.66 MMBNGL After 50,000 trials, the standard error of the mean is 0.02

Statistics:	<u>Value</u>
Trials	50000
Mean	6.65
Median	5.95
Mode	
Standard Deviation	3.64
Variance	13.27
Skewness	1.17
Kurtosis	5.11
Coefficient of Variability	0.55
Range Minimum	0.37
Range Maximum	35.66
Range Width	35.29
Mean Standard Error	0.02



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

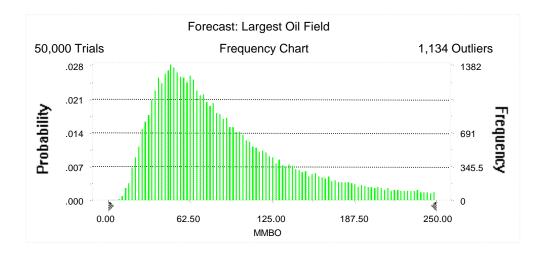
<u>Percentile</u>	<u>MMBNGL</u>
100%	0.37
95%	2.07
90%	2.69
85%	3.16
80%	3.59
75%	3.99
70%	4.37
65%	4.76
60%	5.13
55%	5.54
50%	5.95
45%	6.40
40%	6.87
35%	7.37
30%	7.93
25%	8.56
20%	9.31
15%	10.28
10%	11.56
5%	13.62
0%	35.66

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 250.00 MMBO Entire range is from 5.86 to 299.99 MMBO After 50,000 trials, the standard error of the mean is 0.25

Statistics:	<u>Value</u>
Trials	50000
Mean	91.08
Median	75.26
Mode	
Standard Deviation	56.96
Variance	3,244.60
Skewness	1.30
Kurtosis	4.41
Coefficient of Variability	0.63
Range Minimum	5.86
Range Maximum	299.99
Range Width	294.12
Mean Standard Error	0.25



Forecast: Largest Oil Field (cont'd)

Percentiles:

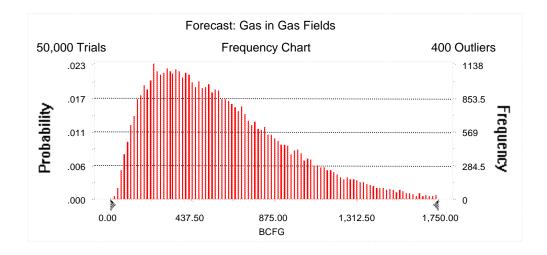
MMBO
5.86
27.78
34.75
40.00
45.02
49.63
54.38
59.19
64.26
69.50
75.26
81.59
88.56
96.48
105.47
116.59
130.37
148.21
173.15
213.64
299.99

Forecast: Gas in Gas Fields

Summary:

Display range is from 0.00 to 1,750.00 BCFG Entire range is from 16.38 to 3,065.54 BCFG After 50,000 trials, the standard error of the mean is 1.64

Statistics:	<u>Value</u>
Trials	50000
Mean	596.79
Median	527.78
Mode	
Standard Deviation	367.15
Variance	134,797.42
Skewness	1.02
Kurtosis	4.17
Coefficient of Variability	0.62
Range Minimum	16.38
Range Maximum	3,065.54
Range Width	3,049.17
Mean Standard Error	1.64



Forecast: Gas in Gas Fields (cont'd)

Percentiles:

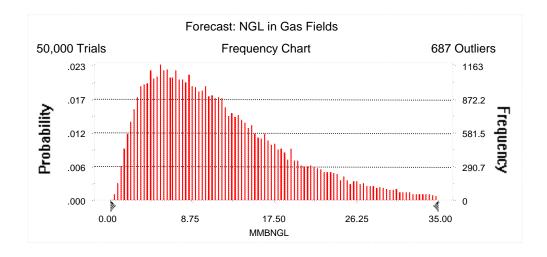
<u>Percentile</u>	<u>BCFG</u>
100%	16.38
95%	138.73
90%	187.98
85%	232.56
80%	273.11
75%	313.05
70%	353.98
65%	395.09
60%	436.87
55%	481.64
50%	527.78
45%	575.09
40%	624.87
35%	678.69
30%	737.59
25%	806.66
20%	883.69
15%	980.95
10%	1,103.00
5%	1,298.92
0%	3,065.54

Forecast: NGL in Gas Fields

Summary:

Display range is from 0.00 to 35.00 MMBNGL Entire range is from 0.25 to 86.54 MMBNGL After 50,000 trials, the standard error of the mean is 0.04

Statistics:	<u>Value</u>
Trials	50000
Mean	11.93
Median	10.24
Mode	
Standard Deviation	7.89
Variance	62.19
Skewness	1.27
Kurtosis	5.32
Coefficient of Variability	0.66
Range Minimum	0.25
Range Maximum	86.54
Range Width	86.29
Mean Standard Error	0.04



Forecast: NGL in Gas Fields (cont'd)

Percentiles:

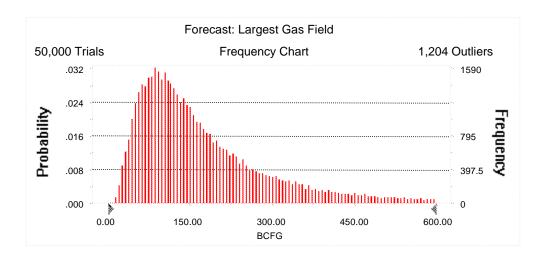
<u>Percentile</u>	<u>MMBNGL</u>
100%	0.25
95%	2.60
90%	3.55
85%	4.40
80%	5.22
75%	6.00
70%	6.79
65%	7.62
60%	8.46
55%	9.33
50%	10.24
45%	11.20
40%	12.19
35%	13.33
30%	14.57
25%	15.99
20%	17.68
15%	19.77
10%	22.69
5%	27.21
0%	86.54

Forecast: Largest Gas Field

Summary:

Display range is from 0.00 to 600.00 BCFG Entire range is from 8.71 to 899.28 BCFG After 50,000 trials, the standard error of the mean is 0.63

Statistics:	<u>Value</u>
Trials	50000
Mean	184.10
Median	141.96
Mode	
Standard Deviation	141.89
Variance	20,132.40
Skewness	1.89
Kurtosis	7.29
Coefficient of Variability	0.77
Range Minimum	8.71
Range Maximum	899.28
Range Width	890.56
Mean Standard Error	0.63



Forecast: Largest Gas Field (cont'd)

Percentiles:

Percentile	<u>BCFG</u>
100%	8.71
95%	44.34
90%	57.29
85%	68.28
80%	78.56
75%	88.32
70%	98.00
65%	108.10
60%	118.56
55%	129.81
50%	141.96
45%	155.05
40%	170.20
35%	187.25
30%	207.80
25%	232.26
20%	263.18
15%	305.92
10%	365.12
5%	479.17
0%	899.28

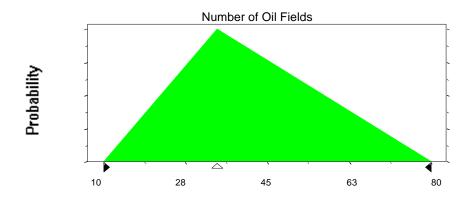
Assumptions

Assumption: Number of Oil Fields

Triangular	distribution	with	parameters:
Hilaliuulai	uistributiori	VVILII	parameters.

Minimum	10
Likeliest	34
Maximum	80

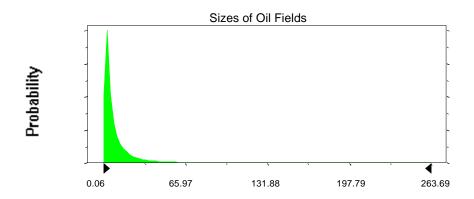
Selected range is from 10 to 80 Mean value in simulation was 41



Assumption: Sizes of Oil Fields

Lognormal distribution with parameters:		Shifted parameters
Mean	10.60	11.6
Standard Deviation	26.02	26.02
Selected range is from 0.00 to 299.00		1.00 to 300.00
Mean value in simulation was 10.11		11.11

Assumption: Sizes of Oil Fields (cont'd)

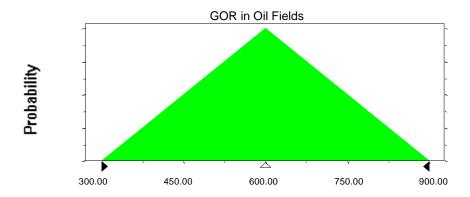


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	300.00
Likeliest	600.00
Maximum	900.00

Selected range is from 300.00 to 900.00 Mean value in simulation was 600.68

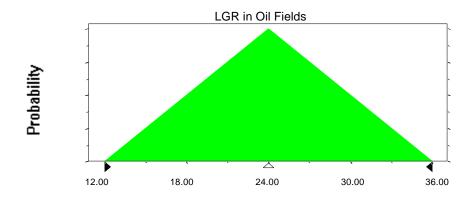


Assumption: LGR in Oil Fields

Triangular distribution with parameters:

Minimum	12.00
Likeliest	24.00
Maximum	36.00

Selected range is from 12.00 to 36.00 Mean value in simulation was 23.96



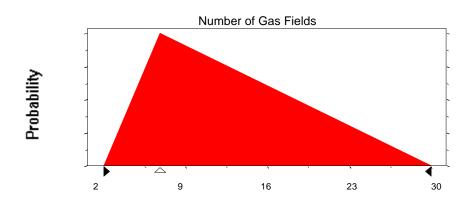
Assumption: Number of Gas Fields

Triangular distribution with parameters:

Minimum	2
Likeliest	7
Maximum	30

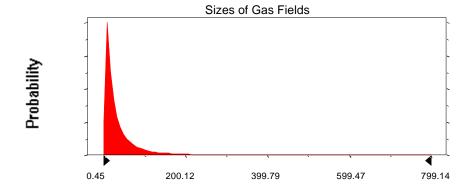
Selected range is from 2 to 30 Mean value in simulation was 13

Assumption: Number of Gas Fields (cont'd)



Assumption: Sizes of Gas Fields

Lognormal distribution with parameter	s:	Shifted parameters
Mean	41.31	47.31
Standard Deviation	79.76	79.76
Selected range is from 0.00 to 894.00		6.00 to 900.00
Mean value in simulation was 40.04		46.04

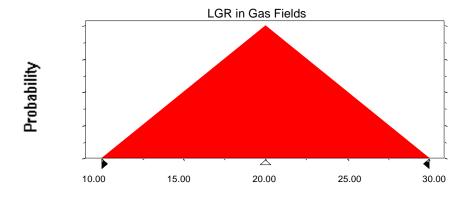


Assumption: LGR in Gas Fields

Triangular distribution with parameters:

Minimum	10.00
Likeliest	20.00
Maximum	30.00

Selected range is from 10.00 to 30.00 Mean value in simulation was 20.00



End of Assumptions

Simulation started on 5/28/99 at 15:51:56 Simulation stopped on 5/28/99 at 16:21:32