Mesozoic Sandstone Reservoirs, Assessment Unit 11500101 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]

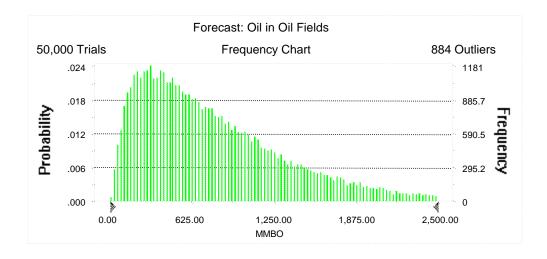
Field			Undiscovered Resources							Largest Undiscovered Field								
Type	MFS	S Prob.	Oil (MMBO)			Gas (BCFG)			NGL (MMBNGL)			(MMBO or BCFG)						
. 7 -		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	3	1.00	132	669	1,994	814	14	72	223	89	0	1	5	2	45	205	897	298
Gas Fields	18	1.00					0	0	0	0	0	0	0	0	NA	NA	NA	NA
Total		1.00	132	669	1,994	814	14	72	223	89	0	1	5	2				

Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 2,500.00 MMBO Entire range is from 6.79 to 6,529.21 MMBO After 50,000 trials, the standard error of the mean is 2.70

Statistics:	<u>Value</u>
Trials	50000
Mean	814.38
Median	669.31
Mode	
Standard Deviation	604.21
Variance	365,072.26
Skewness	1.39
Kurtosis	5.69
Coefficient of Variability	0.74
Range Minimum	6.79
Range Maximum	6,529.21
Range Width	6,522.42
Mean Standard Error	2.70



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

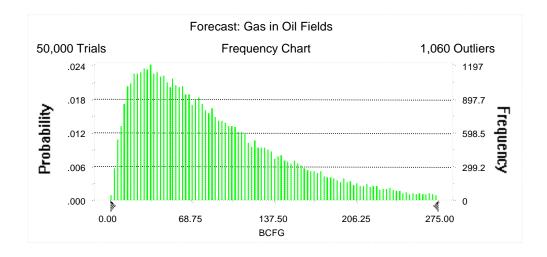
Percentile	MMBO
100%	6.79
95%	131.74
90%	193.10
85%	248.94
80%	304.14
75%	360.31
70%	415.78
65%	475.07
60%	534.74
55%	600.15
50%	669.31
45%	743.35
40%	822.06
35%	908.92
30%	1,006.06
25%	1,114.87
20%	1,245.55
15%	1,414.84
10%	1,638.39
5%	1,993.59
0%	6,529.21

Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 275.00 BCFG Entire range is from 0.74 to 802.21 BCFG After 50,000 trials, the standard error of the mean is 0.31

Statistics:	<u>Value</u>
Trials	50000
Mean	89.46
Median	72.50
Mode	
Standard Deviation	68.53
Variance	4,695.82
Skewness	1.56
Kurtosis	6.82
Coefficient of Variability	0.77
Range Minimum	0.74
Range Maximum	802.21
Range Width	801.47
Mean Standard Error	0.31



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

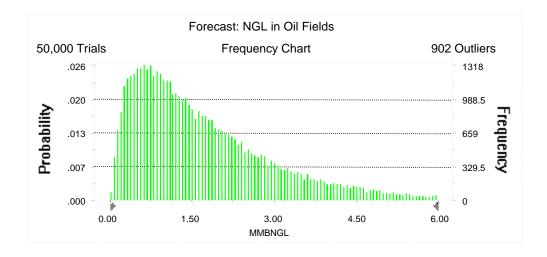
<u>Percentile</u>	<u>BCFG</u>
100%	0.74
95%	14.08
90%	20.68
85%	26.76
80%	32.66
75%	38.63
70%	44.85
65%	51.36
60%	57.99
55%	64.95
50%	72.50
45%	80.38
40%	89.12
35%	98.85
30%	109.43
25%	122.01
20%	136.76
15%	155.33
10%	180.60
5%	223.26
0%	802.21

Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 6.00 MMBNGL Entire range is from 0.01 to 20.75 MMBNGL After 50,000 trials, the standard error of the mean is 0.01

Statistics:	<u>Value</u>
Trials	50000
Mean	1.79
Median	1.41
Mode	
Standard Deviation	1.45
Variance	2.09
Skewness	1.79
Kurtosis	8.40
Coefficient of Variability	0.81
Range Minimum	0.01
Range Maximum	20.75
Range Width	20.73
Mean Standard Error	0.01



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

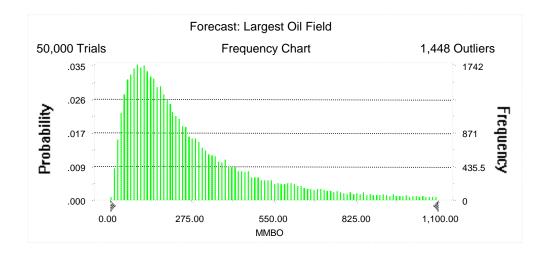
<u>Percentile</u>	MMBNGL
100%	0.01
95%	0.26
90%	0.39
85%	0.51
80%	0.63
75%	0.74
70%	0.86
65%	0.99
60%	1.11
55%	1.26
50%	1.41
45%	1.57
40%	1.75
35%	1.94
30%	2.16
25%	2.42
20%	2.73
15%	3.12
10%	3.67
5%	4.60
0%	20.75

Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 1,100.00 MMBO Entire range is from 3.46 to 1,799.25 MMBO After 50,000 trials, the standard error of the mean is 1.28

Statistics:	<u>Value</u>
Trials	50000
Mean	298.47
Median	204.89
Mode	
Standard Deviation	285.18
Variance	81,324.82
Skewness	2.16
Kurtosis	8.54
Coefficient of Variability	0.96
Range Minimum	3.46
Range Maximum	1,799.25
Range Width	1,795.79
Mean Standard Error	1.28



Forecast: Largest Oil Field (cont'd)

Percentiles:

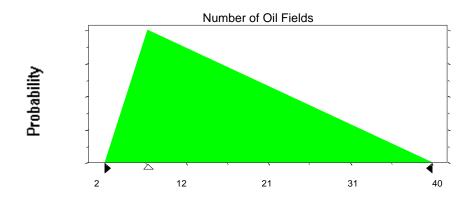
<u>Percentile</u>	MMBO
100%	3.46
95%	45.11
90%	64.07
85%	81.02
80%	96.71
75%	112.87
70%	128.87
65%	146.11
60%	164.42
55%	183.61
50%	204.89
45%	229.24
40%	256.69
35%	289.42
30%	328.57
25%	377.43
20%	439.18
15%	525.28
10%	651.54
5%	897.25
0%	1,799.25

Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:	
Minimum	2
Likeliest	7
Maximum	40

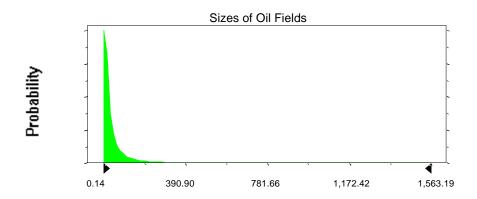
Selected range is from 2 to 40 Mean value in simulation was 16



Assumption: Sizes of Oil Fields

Lognormal distribution with parar	Shifted parameters	
Mean	49.77	52.77
Standard Deviation	157.47	157.47
Selected range is from 0.00 to 1,	3.00 to 1,800.00	
Mean value in simulation was 47.	50.02	

Assumption: Sizes of Oil Fields (cont'd)

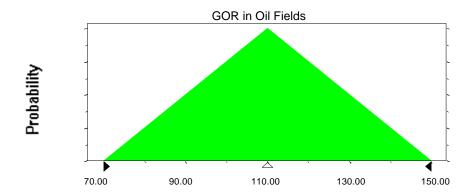


Assumption: GOR in Oil Fields

Triangular distribution with parameters:

Minimum	70.00
Likeliest	110.00
Maximum	150.00

Selected range is from 70.00 to 150.00 Mean value in simulation was 109.93

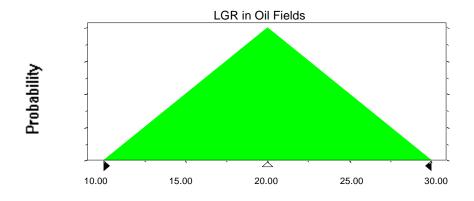


Assumption: LGR in Oil Fields

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 19.99



End of Assumptions

Simulation started on 12/30/99 at 14:11:54 Simulation stopped on 12/30/99 at 14:27:46