Salt-Involved Structural Oil, Assessment Unit 20210202 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		(0-1)	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean	F95	F50	F5	Mean
Oil Fields	20	1.00	5,696	14,420	26,218	14,989	6,691	17,142	31,972	17,991	247	667	1,376	719	816	1,926	4,609	2,204
Gas Fields	120						0	0	0	0	0	0	0	0	NA	NA	NA	NA
Total		1.00	5,696	14,420	26,218	14,989	6,691	17,142	31,972	17,991	247	667	1,376	719				

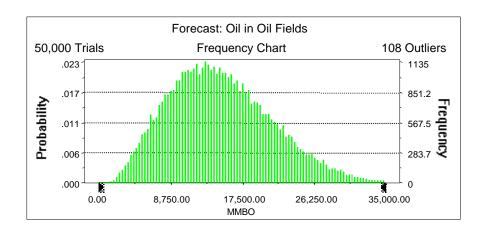
Forecast: Oil in Oil Fields

Summary:

Display range is from 0.00 to 35,000.00 MMBO Entire range is from 984.95 to 46,078.79 MMBO

After 50,000 trials, the standard error of the mean is 28.01

Statistics:	<u>Value</u>
Trials	50000
Mean	14,988.70
Median	14,420.35
Mode	
Standard Deviation	6,263.82
Variance	39,235,432.10
Skewness	0.47
Kurtosis	2.96
Coefficient of Variability	0.42
Range Minimum	984.95
Range Maximum	46,078.79
Range Width	45,093.84
Mean Standard Error	28.01



Forecast: Oil in Oil Fields (cont'd)

Percentiles:

D (1)	MMD0
<u>Percentile</u>	MMBO
100%	984.95
95%	5,695.80
90%	7,245.38
85%	8,396.25
80%	9,431.62
75%	10,317.07
70%	11,159.28
65%	11,985.87
60%	12,812.12
55%	13,590.70
50%	14,420.35
45%	15,242.54
40%	16,103.23
35%	17,012.49
30%	17,989.07
25%	19,072.21
20%	20,304.50
15%	21,721.67
10%	23,501.26
5%	26,217.63
0%	46,078.79
0 /6	40,076.79

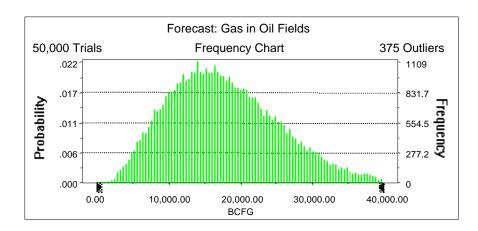
Forecast: Gas in Oil Fields

Summary:

Display range is from 0.00 to 40,000.00 BCFG Entire range is from 985.46 to 62,510.03 BCFG

After 50,000 trials, the standard error of the mean is 34.79

Statistics: Trials Mean Median	<u>Value</u> 50000 17,990.90 17,141.96
Mode	17,141.90
Standard Deviation	7,779.02
Variance	60,513,142.00
Skewness	0.58
Kurtosis	3.23
Coefficient of Variability	0.43
Range Minimum	985.46
Range Maximum	62,510.03
Range Width	61,524.57
Mean Standard Error	34.79



Forecast: Gas in Oil Fields (cont'd)

Percentiles:

<u>Percentile</u>	<u>BCFG</u>
100%	985.46
95%	6,691.41
90%	8,490.99
85%	9,927.91
80%	11,131.32
75%	12,210.22
70%	13,257.08
65%	14,236.42
60%	15,193.49
55%	16,170.46
50%	17,141.96
45%	18,157.93
40%	19,225.62
35%	20,380.26
30%	21,581.57
25%	22,891.11
20%	24,470.45
15%	26,216.50
10%	28,522.21
5%	31,971.58
0%	62,510.03

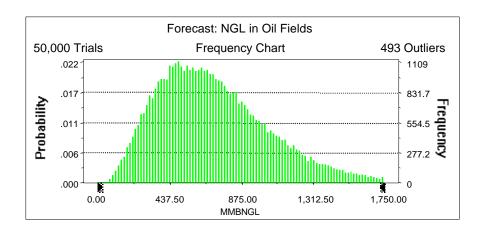
Forecast: NGL in Oil Fields

Summary:

Display range is from 0.00 to 1,750.00 MMBNGL Entire range is from 39.23 to 3,111.09 MMBNGL

After 50,000 trials, the standard error of the mean is 1.57

Statistics: Trials Mean Median	<u>Value</u> 50000 719.38 666.80
Mode	
Standard Deviation	350.61
Variance	122,926.91
Skewness	0.89
Kurtosis	4.04
Coefficient of Variability	0.49
Range Minimum	39.23
Range Maximum	3,111.09
Range Width	3,071.86
Mean Standard Error	1.57



Forecast: NGL in Oil Fields (cont'd)

Percentiles:

Percentile	MMBNGL
100%	39.23
95%	246.86
90%	316.10
85%	370.17
80%	416.29
75%	459.21
70%	499.94
65%	541.46
60%	582.88
55%	624.54
50%	666.80
45%	710.38
40%	756.63
35%	806.59
30%	859.25
25%	920.37
20%	993.44
15%	1,080.33
10%	1,192.93
5%	1,375.71
0%	3,111.09

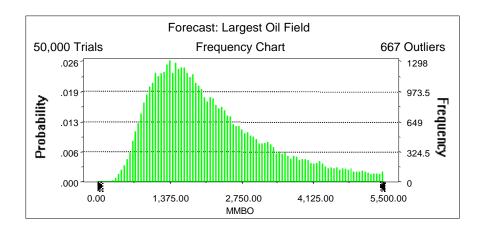
Forecast: Largest Oil Field

Summary:

Display range is from 0.00 to 5,500.00 MMBO Entire range is from 140.50 to 5,999.59 MMBO

After 50,000 trials, the standard error of the mean is 5.14

Statistics: Trials Mean	<u>Value</u> 50000 2,204.35
Median Mode	1,925.66
Standard Deviation	1,150.00
Variance	1,322,488.96
Skewness	1.02
Kurtosis	3.61
Coefficient of Variability	0.52
Range Minimum	140.50
Range Maximum	5,999.59
Range Width	5,859.09
Mean Standard Error	5.14



Forecast: Largest Oil Field (cont'd)

Percentiles:

Doroontilo	MMDO
<u>Percentile</u>	MMBO
100%	140.50
95%	816.30
90%	983.69
85%	1,113.09
80%	1,233.84
75%	1,348.13
70%	1,458.23
65%	1,570.33
60%	1,683.43
55%	1,801.91
50%	1,925.66
	•
45%	2,064.52
40%	2,220.72
35%	2,387.86
30%	2,576.18
25%	2,805.16
20%	3,078.51
15%	3,414.85
10%	3,895.68
5%	4,609.10
0%	5,999.59
0,0	3,000.00

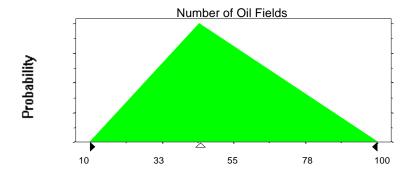
Assumptions

Assumption: Number of Oil Fields

Triangular distribution with parameters:

Minimum	10
Likeliest	44
Maximum	100

Selected range is from 10 to 100 Mean value in simulation was 51

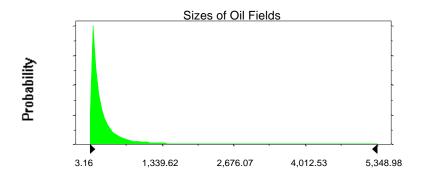


Assumption: Sizes of Oil Fields

Lognormal distribution with pa	Shifted parameters		
Mean	280.10	300.1	
Standard Deviation	534.57	534.57	

Selected range is from 0.00 to 5,980.00 20.00 to 6,000.00 Mean value in simulation was 270.57 290.57

Assumption: Sizes of Oil Fields (cont'd)



Assumption: GOR in Oil Fields

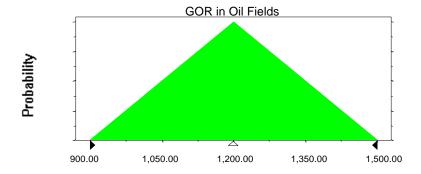
Triangular distribution with parameters:

 Minimum
 900.00

 Likeliest
 1,200.00

 Maximum
 1,500.00

Selected range is from 900.00 to 1,500.00 Mean value in simulation was 1,200.35



Assumption: LGR in Oil Fields

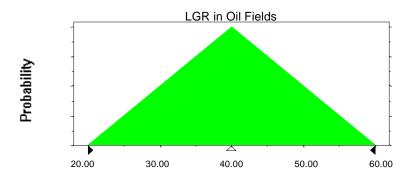
Triangular distribution with parameters:

 Minimum
 20.00

 Likeliest
 40.00

 Maximum
 60.00

Selected range is from 20.00 to 60.00 Mean value in simulation was 39.98



End of Assumptions

Simulation started on 5/28/99 at 9:40:47 Simulation stopped on 5/28/99 at 10:06:55