

TABLE 1
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B.P. GOODRICH

FEED ANALYSIS

PROJECT CODE: MISSIMER & ASSOCIATES
 COLLECTED: 06/17/91 BY: JOHN BUONASSISI
 RECEIVED: 06/20/91
 ANALYZED: 06/20/91 BY: DI M/KMG
 SAMPLE ID: WELL #LM-3680

COMPONENT	FEED PPM
ALKALINITY*	157.8
ALUMINUM	<DL
BARIUM	0.015
BORON	0.42
CALCIUM	88.32
CHLORIDE	757.9
CHROMIUM	<DL
CONDUCTIVITY**	2330.0
COPPER	<DL
FLUORIDE	1.1
IRON	<DL
LEAD	<DL
MAGNESIUM	97.2
MANGANESE	<DL
NITRATE	<DL
PHOSPHATE	<DL
PHOSPHORUS	<DL
POTASSIUM	23.3
SILICON	7.54
SODIUM	371.6
STRONTIUM	12.88
SULFATE	201.2
ZINC	<DL
IONIC STRENGTH	0.0375
pH	7.20
TEMPERATURE (C)	25.0

FOURANTS PROJECTION OF BRINE % OF SATURATION @ 75% RECOVERY***

CALCIUM CARBONATE SCALING INDEX	1.00
CALCIUM SULFATE (%)	17.5
CALCIUM FLUORIDE (%)	1083.0
BARIUM SULFATE (%)	344.0
STRONTIUM SULFATE (%)	176.0
SILICA (%)	64.3

IF THE '% OF SATURATION' EXCEEDS 100 THEN ANTISCALANT IS REQUIRED!

*ALKALINITY IN PPM CaCO3
 **CONDUCTIVITY IN UMH...

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FEED ANALYSIS

CATIONS	FEED	
	PPM	MEQ/L
ALUMINUM	0.00	0.00
BARIUM	0.02	.00
CALCIUM	88.32	4.41
CHROMIUM	0.00	0.00
COPPER	0.00	0.00
IRON	0.00	0.00
LEAD	0.00	0.00
MAGNESIUM	77.18	7.99
MANGANESE	0.00	0.00
POTASSIUM	23.26	0.59
SODIUM	371.63	16.17
STRONTIUM	12.88	0.29
ZINC	0.00	0.00
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TOTAL CATIONS	593.28	29.46

ANIONS

BICARBONATE	186.42	3.06
CHLORIDE	757.90	21.38
FLUORIDE	1.06	0.06
NITRATE	0.00	0.00
PHOSPHATE	0.00	0.00
SULFATE	201.19	4.19
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TOTAL ANIONS	1146.57	28.68

TOTAL IONS(TDS) 1739.8 58.1

CATION/ANION BALANCE 97%

ADDITIONAL COMPONENTS

	FEED
ALKALINITY, TOTAL (ppm CaCO ₃)	152.8
ALKALINITY, BICARBONATE (ppm CaCO ₃)	152.8
ALKALINITY, CARBONATE (ppm CaCO ₃)	- -
CARBON, TOTAL ORGANIC (ppm)	1.4
CARBON DIOXIDE (ppm AS ION, CALCULATED)	18.3
CHLORINE, TOTAL (ppm Cl ₂)	<DL
HARDNESS, TOTAL (ppm CaCO ₃)	635.9
OSMOTIC PRESSURE (PSI)	13.8
SILICA ,TOTAL (ppm SiO ₂ , CALCULATED/Si)	16.1
SPECIFIC GRAVITY (g/ml)	1.0
TDS (ppm AS NaCl BY CONDUCTIVITY)	1197.7
TURBIDITY (NTU)	0.1

