

Comparison Between Two Waters

04-January-1996

TO: Permian Treating Chemicals

Company : Devon Energy

Sample # 1

Morse #1 (Devonian ufr)

Sample # 2

Harr #3 (San An droi ufr)

Percent of #1 & #2		pH	TDS mg/L	SpGr	Saturation Index 880°F. 2140°F.		Calcium Sulfate Scaling Potential
100	- 0	7.280	34,552	1.028	+0.336	+1.140	Nil
95	- 5	7.208	44,225	1.034	+0.281	+1.120	Nil
90	- 10	7.136	53,898	1.041	+0.246	+1.027	Nil
85	- 15	7.064	63,571	1.047	+0.229	+0.967	Nil
80	- 20	6.992	73,245	1.053	+0.305	+1.056	Nil
75	- 25	6.920	82,918	1.060	+0.368	+1.132	Nil
70	- 30	6.848	92,591	1.066	+0.422	+1.198	Nil
65	- 35	6.776	102,264	1.072	+0.469	+1.257	Nil
60	- 40	6.704	111,937	1.079	+0.509	+1.311	Nil
55	- 45	6.632	121,610	1.085	+0.545	+1.359	Nil
50	- 50	6.560	131,284	1.092	+0.577	+1.404	Nil
45	- 55	6.488	140,957	1.098	+0.605	+1.445	Nil
40	- 60	6.416	150,630	1.104	+0.631	+1.483	Nil
35	- 65	6.344	160,303	1.111	+0.654	+1.519	Nil
30	- 70	6.272	169,976	1.117	+0.675	+1.553	Marginal
25	- 75	6.200	179,649	1.123	+0.694	+1.584	Marginal
20	- 80	6.128	189,322	1.130	+0.711	+1.614	Marginal
15	- 85	6.056	198,996	1.136	+0.726	+1.642	Marginal
10	- 90	5.984	208,669	1.142	+0.740	+1.669	Marginal
5	- 95	5.912	218,342	1.149	+0.753	+1.694	Marginal
0	- 100	5.840	228,015	1.155	+0.765	+1.718	Marginal