

SCALE TENDENCY REPORT

Company : YATES PETROLEUM Date : 02/07/96
 Address : ARTESIA, NM Date Sampled : 02/06/96
 Lease : AMARANTH "AMG" Analysis No. : 0222
 Well : #1 Analyst : SHAWNA MATTHEWS
 Sample Pt. : TANK

STABILITY INDEX CALCULATIONS
 (Stiff-Davis Method)
 CaCO3 Scaling Tendency

S.I. = -0.9 at 60 deg. F or 16 deg. C
 S.I. = -0.8 at 80 deg. F or 27 deg. C
 S.I. = -0.8 at 100 deg. F or 38 deg. C
 S.I. = -0.7 at 120 deg. F or 49 deg. C
 S.I. = -0.6 at 140 deg. F or 60 deg. C

CALCIUM SULFATE SCALING TENDENCY CALCULATIONS
 (Skillman-McDonald-Stiff Method)
 Calcium Sulfate

S = 3216 at 60 deg. F or 16 deg C
 S = 3437 at 80 deg. F or 27 deg C
 S = 3561 at 100 deg. F or 38 deg C
 S = 3597 at 120 deg. F or 49 deg C
 S = 3612 at 140 deg. F or 60 deg C

Petrolite Oilfield Chemicals Group

Respectfully submitted,
 SHAWNA MATTHEWS