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APR 4 12 56 AM '94  
BUREAU OF LAND MGMT.  
HOOVER, NM.

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APR 5 10 31 AM '94

SCALE TENDENCY REPORT  
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|            |                   |              |             |
|------------|-------------------|--------------|-------------|
| Company    | : YATES PETROLEUM | Date         | : 4/1/94    |
| Address    | : ARTESIA, NM     | Date Sampled | : 3/30/94   |
| Lease      | : SWEENEY FED.    | Analysis No. | : 670       |
| Well       | : 1               | Analyst      | : A. MILLER |
| Sample Pt. | : WATER TANK      |              |             |

STABILITY INDEX CALCULATIONS  
(Stiff-Davis Method)  
CaCO<sub>3</sub> Scaling Tendency

|        |      |    |            |    |           |
|--------|------|----|------------|----|-----------|
| S.I. = | -0.1 | at | 60 deg. F  | or | 16 deg. C |
| S.I. = | -0.1 | at | 80 deg. F  | or | 27 deg. C |
| S.I. = | -0.1 | at | 100 deg. F | or | 38 deg. C |
| S.I. = | -0.1 | at | 120 deg. F | or | 49 deg. C |
| S.I. = | -0.1 | at | 140 deg. F | or | 60 deg. C |

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

|     |     |    |            |    |          |
|-----|-----|----|------------|----|----------|
| S = | 434 | at | 60 deg. F  | or | 16 deg C |
| S = | 483 | at | 80 deg. F  | or | 27 deg C |
| S = | 514 | at | 100 deg. F | or | 38 deg C |
| S = | 527 | at | 120 deg. F | or | 49 deg C |
| S = | 535 | at | 140 deg. F | or | 60 deg C |

Petrolite Oilfield Chemicals Group

Respectfully submitted,  
A. MILLER