

LOCATION

YOUR EXT. NO.

THE WESTERN COMPANY

ANALYSIS NO.

WATER ANALYSIS

GENERAL INFORMATION

|           |                       |                     |             |
|-----------|-----------------------|---------------------|-------------|
| OPERATOR  | Yates Petroleum Corp. | DATE SAMPLED        | 4/1/87      |
| WELL      | Brown #1              | DATE RECEIVED       | 4/1/87      |
| FIELD     |                       | SUBMITTED BY        |             |
| FORMATION | Wolfcamp 10346        | WORKED BY           | Dan Johnson |
| COUNTY    |                       | SAMPLE DESCRIPTION: |             |
| STATE     | New Mexico            |                     |             |
| DEPTH     |                       |                     |             |

PHYSICAL AND CHEMICAL DETERMINATIONS

|                    |              |    |    |     |                        |                  |
|--------------------|--------------|----|----|-----|------------------------|------------------|
| SPECIFIC GRAVITY   | 1.050        | AT | 75 | °F  | TOTAL DISSOLVED SOLIDS | PPM              |
| pH                 | 8.6          |    |    |     | RESISTIVITY            | 0.12 at 60°F PPM |
| IRON               | none         |    |    |     | SULFATE                | 2620 PPM         |
| HYDROGEN SULFIDE   | strong trace |    |    |     | BICARBONATE            | 1185 PPM         |
| HARDNESS           | 13050        |    |    |     | CHLORIDE               | 34285 PPM        |
| CALCIUM            | 4350         |    |    |     | SODIUM CHLORIDE        | PPM              |
| MAGNESIUM          | 530          |    |    | PPM | SODIUM                 | PPM              |
| SODIUM & POTASSIUM | 17950        |    |    | PPM | POTASSIUM              | PPM              |
| PHOSPHATE          |              |    |    |     |                        |                  |

REMARKS:

Oil Gravity: 37° API at 60°F

for Stiff type plot (in meq./l.)

