

DST

CUSTOMER : APACHE CORP.  
 WELL : STATE Q.E. #13-2  
 TEST # : 1  
 TICKET # : 147  
 FORMATION : WOLFCAMP  
 TEST DATE : DEC-23-86

TEST TYPE: DST-CONVENTIONAL  
 LOCATION : SEC 13-12S-34E  
 FIELD : WILDCAT  
 COUNTY : LEA  
 STATE : NEW MEXICO  
 TESTER : RAY RUIZ SR.

TEST INTERVAL: 9212 TO 9250 FT. TOTAL DEPTH : 9250 FT.  
 NET PAY : 12 FT. HOLE SIZE : 7.7/8 IN.  
 POROSITY : % BOTTOM HOLE CHOKE: 1.0 IN.  
 ELEVATION : 4133 (GROUND) FT. WATER CUSHION : NONE FT.

| TEST RECOVERY   | FEET | API | DEG | OHM-M | DEG | CHL PPM |
|-----------------|------|-----|-----|-------|-----|---------|
| 1. DRILLING MUD | 30   |     |     |       |     |         |
| 2.              |      |     |     |       |     |         |
| 3.              |      |     |     |       |     |         |
| 4.              |      |     |     |       |     |         |

SAMPLE CHAMBER

|               |       |     |       |                      |         |
|---------------|-------|-----|-------|----------------------|---------|
| GAS : FT3     | OHM-M | DEG | PPM.  | SAMPLE PRESSURE : 12 | PSI     |
| OIL : CC      |       |     |       | OIL GRAVITY @ 60 F:  | DEG.API |
| WATER: CC     |       |     |       | GAS/OIL RATIO :      | FT3/BBL |
| MUD : 2200 CC | .12   | 95  | 47000 | GAS/LIQUID RATIO :   | FT3/BBL |

|                          |                         |        |
|--------------------------|-------------------------|--------|
| MUD TYPE :               | MUD RESISTIVITY : .12   | OHM-M  |
| MUD WEIGHT : 9.1 #/GAL   | MUD RES.MEAS.TEMP. :    | 89 DEG |
| MUD VISCOSITY: 41 SEC    | MUD FILTRATE RES. :     | OHM-M  |
| WATER LOSS : CC/30 MIN   | MUD FILT.RES.MEAS.TEMP: | DEG    |
| MUD CHLORIDES: 47000 PPM |                         |        |

| TEST STRING      | THREAD | I.D. IN. | O.D. IN. | LENGTH FT. |
|------------------|--------|----------|----------|------------|
| 1. DRILL PIPE    | 4.0 FH | 3.24     | 4.00     | 8701       |
| 2. DRILL COLLARS |        | 2.25     | 6.25     | 676        |
| 3. TEST TOOLS    | 3.5 IF | 1.00     | 5.0      | 74         |

| SEQUENCE OF EVENTS     | MIN. | CHOKE | SURFACE RESPONSE     |
|------------------------|------|-------|----------------------|
| START FLOW (DEC 23-86) |      | BH    | WEAK BLOW            |
| END FLOW START SHUT-IN | 15   | BH    |                      |
| END SHUT-IN            | 30   |       |                      |
| START FLOW             |      | BH    | WEAK BLOW            |
|                        |      | BH    | BLOW DIED IN 25 MIN. |
| END FLOW START SHUT-IN | 60   |       |                      |
| END SHUT-IN            | 120  |       |                      |