

# WELL LOGS

|             |              |           |                    |
|-------------|--------------|-----------|--------------------|
| API number: | 30-025-36309 |           |                    |
| OGRID:      |              | Operator: | MACK ENERGY CORP   |
|             |              | Property: | SAPPHIRE STATE # 5 |

|         |          |         |   |         |   |     |
|---------|----------|---------|---|---------|---|-----|
| surface | ULSTR: A | 23      | T | 23S     | R | 36E |
|         |          | 990 FNL |   | 490 FEL |   |     |

|        |          |         |         |       |
|--------|----------|---------|---------|-------|
| BH Loc | ULSTR: A | 23      | T 23S   | R 36E |
|        |          | 990 FNL | 490 FEL |       |

|               |             |     |             |     |             |
|---------------|-------------|-----|-------------|-----|-------------|
| Ground Level: | <b>3354</b> | DF: | <b>3369</b> | KB: | <b>3370</b> |
| Datum:        | <b>KB</b>   |     |             | TD: | <b>3867</b> |

Land: **STATE**

Completion Date: (1) **11/17/2003**

Date Logs Received: **1/5/2004** \*\*\*Late

Date Due in: (2) **12/17/2003**

|               |    |  |  |           |  |  |
|---------------|----|--|--|-----------|--|--|
| Confidential: | NO |  |  | Date out: |  |  |
|---------------|----|--|--|-----------|--|--|

Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

| Logs               | Depth interval |             |                              |
|--------------------|----------------|-------------|------------------------------|
| <b>TD LD CN/GR</b> | <b>200</b>     | <b>3865</b> | Three Detector Litho-Density |
|                    | <b>3634</b>    | <b>3859</b> | Azimuthal Laterolog          |
|                    |                |             |                              |
|                    |                |             |                              |
|                    |                |             |                              |
|                    |                |             |                              |
|                    |                |             |                              |

## OCD TOPS

|            |      |         |  |  |  |
|------------|------|---------|--|--|--|
|            |      |         |  |  |  |
| Rustler    | 1197 | Strawn  |  |  |  |
| Tansill    |      | Atoka   |  |  |  |
| Yates      | 2886 | Morrow  |  |  |  |
| 7 rvs      | 3110 |         |  |  |  |
|            |      | Austin  |  |  |  |
|            |      | Chester |  |  |  |
| Queen      |      |         |  |  |  |
| Penrose    |      |         |  |  |  |
| Grayburg   | 3646 |         |  |  |  |
| San Andres |      |         |  |  |  |
| Glorieta   |      |         |  |  |  |
| Paddock    |      |         |  |  |  |
| Blinebry   |      |         |  |  |  |
| Tubb       | 7312 |         |  |  |  |
| Drinkard   | 7580 |         |  |  |  |
| Abo        | 8040 |         |  |  |  |
| Wolfcamp   | 9776 |         |  |  |  |
|            |      |         |  |  |  |
|            |      |         |  |  |  |