

# WELL LOGS

K Z

|             |              |           |                        |
|-------------|--------------|-----------|------------------------|
| API number: | 30-025-40399 |           |                        |
| OGRID:      |              | Operator: | QUANTUM RES MNGMNT LLC |
|             |              | Property: | ENCORE M STATE # 7     |

|         |        |   |     |     |      |     |     |
|---------|--------|---|-----|-----|------|-----|-----|
| surface | ULSTR: | B | 19  | T   | 22S  | R   | 37E |
|         |        |   | 749 | FNL | 1610 | FEL |     |

|        |        |   |     |     |      |     |     |
|--------|--------|---|-----|-----|------|-----|-----|
| BH Loc | ULSTR: | B | 19  | T   | 22S  | R   | 37E |
|        |        |   | 749 | FNL | 1610 | FEL |     |

|               |      |     |      |     |      |  |
|---------------|------|-----|------|-----|------|--|
| Ground Level: | 3413 | DF: | 3427 | KB: | 3428 |  |
| Datum:        | KB   |     |      | TD: | 6890 |  |

|                            |           |
|----------------------------|-----------|
| Completion Date: (1)       | 4/28/2012 |
| Date Logs Received:        | 5/11/2012 |
| Date C105 Received:        | 5/11/2012 |
| Date Logs/C105 Due in: (2) | 5/19/2012 |

Land: STATE

|               |    |  |  |           |  |
|---------------|----|--|--|-----------|--|
| 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 |                                      |
|--------|----------------|--------------------------------------|
| ZDL/CN | 200 6886       | Dual Spaced Neutron Spectral Density |
|        |                |                                      |
|        |                |                                      |
|        |                |                                      |
|        |                |                                      |
| CBL    |                | Cement Bond Log                      |

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## OCD TOPS

|            |      |           |  |  |
|------------|------|-----------|--|--|
| Rustler    | 1149 | Strawn    |  |  |
| Tansill    |      | Atoka     |  |  |
| Yates      | 2627 | Morrow    |  |  |
| 7 rvs      | 2864 |           |  |  |
|            | 3036 | Austin    |  |  |
|            | 3183 | Chester   |  |  |
| Queen      | 3324 | Miss Lime |  |  |
| Penrose    | 3432 |           |  |  |
| Grayburg   | 3602 |           |  |  |
| San Andres | 4037 |           |  |  |
| Glorieta   | 5110 |           |  |  |
| Paddock    |      |           |  |  |
| Blinbry    |      |           |  |  |
| Tubb       | 6154 |           |  |  |
| Drinkard   | 6447 |           |  |  |
| Abo        | 6721 |           |  |  |
| Wolfcamp   |      |           |  |  |
|            |      |           |  |  |
|            |      |           |  |  |

MAY 15 2012