

# WELL LOGS

K z

|             |              |           |                     |
|-------------|--------------|-----------|---------------------|
| API number: | 30-025-40643 |           |                     |
| OGRID:      |              | Operator: | MACK ENERGY CORP    |
|             |              | Property: | PINTAIL FEDERAL # 3 |

|         |        |   |     |     |     |     |     |
|---------|--------|---|-----|-----|-----|-----|-----|
| surface | ULSTR: | M | 8   | T   | 17S | R   | 32E |
|         |        |   | 330 | FSL | 990 | FWL |     |

|        |        |   |     |     |     |     |     |
|--------|--------|---|-----|-----|-----|-----|-----|
| BH Loc | ULSTR: | M | 8   | T   | 17S | R   | 32E |
|        |        |   | 330 | FSL | 990 | FWL |     |

|               |      |     |      |     |      |  |  |
|---------------|------|-----|------|-----|------|--|--|
| Ground Level: | 4016 | DF: | 4032 | KB: | 4033 |  |  |
| Datum:        | KB   |     |      | TD: | 4703 |  |  |

|  |                            |           |            |
|--|----------------------------|-----------|------------|
|  | Completion Date: (1)       | 8/2/2013  |            |
|  | Date Logs Received:        | 10/4/2013 | ***LATE*** |
|  | Date C105 Received:        | 10/4/2013 | ***LATE*** |
|  | Date Logs/C105 Due in: (2) | 8/22/2013 |            |

Land: **FEDERAL**

|               |    |  |  |           |  |  |
|---------------|----|--|--|-----------|--|--|
| 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 |      |                              |
|-------------|----------------|------|------------------------------|
| TD LD CN/GR | 841            | 4648 | Three Detector Litho-Density |
| HRLA        | 841            | 4666 | High Resolution Laterolog    |
|             |                |      |                              |
|             |                |      |                              |
|             |                |      |                              |
|             |                |      |                              |
|             |                |      |                              |

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## OCD TOPS

|            |      |           |  |  |
|------------|------|-----------|--|--|
| Rustler    | 786  | Strawn    |  |  |
| Tansill    | 1967 | Atoka     |  |  |
| Yates      | 2114 | Morrow    |  |  |
| 7 rvs      | 2457 |           |  |  |
|            | 2813 | Austin    |  |  |
|            | 2890 | Chester   |  |  |
| Queen      | 3074 | Miss Lime |  |  |
| Penrose    | 3320 |           |  |  |
| Grayburg   | 3503 |           |  |  |
| San Andres | 3833 |           |  |  |
| Glorieta   |      |           |  |  |
| Paddock    |      |           |  |  |
| Blinbry    |      |           |  |  |
| Tubb       |      |           |  |  |
| Drinkard   |      |           |  |  |
| Abo        |      |           |  |  |
| Wolfcamp   |      |           |  |  |
|            |      |           |  |  |
|            |      |           |  |  |

OCT 17 2013