

# WELL LOGS

K Z

|             |              |           |                   |
|-------------|--------------|-----------|-------------------|
| API number: | 30-025-39167 |           |                   |
| OGRID:      |              | Operator: | COG OPERATING LLC |
|             |              | Property: | J C FEDERAL # 29  |

|         |        |   |     |     |      |     |     |
|---------|--------|---|-----|-----|------|-----|-----|
| surface | ULSTR: | O | 21  | T   | 17S  | R   | 32E |
|         |        |   | 720 | FSL | 1890 | FEL |     |

|        |        |   |     |     |      |     |     |
|--------|--------|---|-----|-----|------|-----|-----|
| BH Loc | ULSTR: | O | 21  | T   | 17S  | R   | 32E |
|        |        |   | 380 | FSL | 2299 | FEL |     |

|               |      |     |      |     |      |      |      |
|---------------|------|-----|------|-----|------|------|------|
| Ground Level: | 4021 | DF: | 4037 | KB: | 4038 |      |      |
| Datum:        | KB   |     |      | MD: | 7134 | TVD: | 7099 |

|  |                            |           |
|--|----------------------------|-----------|
|  | Completion Date: (1)       | 7/8/2010  |
|  | Date Logs Received:        | 8/19/2010 |
|  | Date C105 Received:        | 8/19/2010 |
|  | Date Logs/C105 Due in: (2) | 7/28/2010 |

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 |      |                                      |
|--------|----------------|------|--------------------------------------|
| ZDL/CN | 100            | 7038 | Dual Spaced Neutron Spectral Density |
|        |                |      |                                      |
|        |                |      |                                      |
|        |                |      |                                      |
|        |                |      |                                      |
|        |                |      |                                      |
|        |                |      |                                      |

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## OCD TOPS

|            |      |           |  |  |  |
|------------|------|-----------|--|--|--|
| Rustler    | 800  | Strawn    |  |  |  |
| Tansill    |      | Atoka     |  |  |  |
| Yates      | 2152 | Morrow    |  |  |  |
| 7 rvs      | 2514 |           |  |  |  |
|            | 2858 | Austin    |  |  |  |
|            | 2940 | Chester   |  |  |  |
| Queen      | 3130 | Miss Lime |  |  |  |
| Penrose    |      |           |  |  |  |
| Grayburg   | 3496 |           |  |  |  |
| San Andres | 3894 |           |  |  |  |
| Glorieta   | 5440 |           |  |  |  |
| Paddock    |      |           |  |  |  |
| Blinbry    |      |           |  |  |  |
| Tubb       |      |           |  |  |  |
| Drinkard   |      |           |  |  |  |
| Abo        |      |           |  |  |  |
| Wolfcamp   |      |           |  |  |  |
|            |      |           |  |  |  |