

# WELL LOGS

K Z

|             |              |           |                           |
|-------------|--------------|-----------|---------------------------|
| API number: | 30-025-40302 |           |                           |
| OGRID:      |              | Operator: | COG OPERATING LLC         |
|             |              | Property: | LIGHTNING P-38 STATE # 2H |

|         |        |   |      |     |     |     |     |
|---------|--------|---|------|-----|-----|-----|-----|
| surface | ULSTR: | H | 01   | T   | 21S | R   | 33E |
|         |        |   | 1980 | FNL | 330 | FEL |     |

|        |        |   |      |     |     |     |     |
|--------|--------|---|------|-----|-----|-----|-----|
| BH Loc | ULSTR: | E | 01   | T   | 21S | R   | 33E |
|        |        |   | 2071 | FNL | 366 | FEL |     |

|               |      |     |      |     |       |      |       |
|---------------|------|-----|------|-----|-------|------|-------|
| Ground Level: | 3790 | DF: | 3809 | KB: | 3810  |      |       |
| Datum:        | KB   |     |      | MD: | 16008 | TVD: | 11498 |

Land: STATE

Completion Date: (1) 5/4/2012  
 Date Logs Received: 5/21/2012  
 Date C105 Received: 5/21/2012  
 Date Logs/C105 Due in: (2) 5/24/2012

|               |    |  |  |           |  |  |
|---------------|----|--|--|-----------|--|--|
| 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 |       |                                      |
|----------|----------------|-------|--------------------------------------|
| DSN/SDL  | 200            | 11554 | Spectral Density Dual Spaced Neutron |
| DLL/MGRD | 5522           | 11602 | Dual Laterolog Micro Guard Log       |
|          | 5522           | 11602 | Triple Combo Composite Log           |
|          |                |       |                                      |
|          |                |       |                                      |
|          |                |       |                                      |
|          |                |       |                                      |

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## OCD TOPS

|              |      |             |       |  |  |
|--------------|------|-------------|-------|--|--|
| Rustler      | 1759 | Bone Spring | 8314  |  |  |
| Tansill      | 3762 | 1st Sd      | 9831  |  |  |
| Yates        | 3936 | 2nd Carb    | 10080 |  |  |
| 7 rvs        | 4210 | 2nd Sd      | 10434 |  |  |
|              |      | 3rd Carb    | 10865 |  |  |
|              |      | 3rd Sd      | 11405 |  |  |
| Queen        |      | Wolfcamp    |       |  |  |
| Penrose      |      |             |       |  |  |
| Grayburg     |      | Strawn      |       |  |  |
| San Andres   |      | Atoka       |       |  |  |
| Glorieta     |      | Morrow      |       |  |  |
| Yeso         |      |             |       |  |  |
| Abo          |      |             |       |  |  |
|              |      | Barnett Sh  |       |  |  |
| Capitan Reef | 4250 | Miss Lime   |       |  |  |
| Getaway Bank |      |             |       |  |  |
| Delaware Sd  | 5646 |             |       |  |  |
|              |      |             |       |  |  |
|              |      |             |       |  |  |

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