

# WELL LOGS

K z

|             |              |           |                            |
|-------------|--------------|-----------|----------------------------|
| API number: | 30-025-40635 |           |                            |
| OGRID:      |              | Operator: | COG OPERATING LLC          |
|             |              | Property: | WARHAWK 3 FEDERAL COM # 1H |

|         |        |   |     |     |     |     |     |
|---------|--------|---|-----|-----|-----|-----|-----|
| surface | ULSTR: | D | 03  | T   | 19S | R   | 32E |
|         |        |   | 780 | FNL |     | 170 | FWL |

|        |        |   |     |     |     |     |     |
|--------|--------|---|-----|-----|-----|-----|-----|
| BH Loc | ULSTR: | A | 03  | T   | 19S | R   | 32E |
|        |        |   | 355 | FNL |     | 331 | FEL |

|               |      |     |      |     |       |      |      |
|---------------|------|-----|------|-----|-------|------|------|
| Ground Level: | 3684 | DF: | 3701 | KB: | 3702  |      |      |
| Datum:        | KB   |     |      | MD: | 13930 | TVD: | 9485 |

|  |                            |           |            |
|--|----------------------------|-----------|------------|
|  | Completion Date: (1)       | 9/12/2013 |            |
|  | Date Logs Received:        | 10/4/2013 | ***Late*** |
|  | Date C105 Received:        | 10/4/2013 | ***Late*** |
|  | Date Logs/C105 Due in: (2) | 10/2/2013 |            |

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 |      |                                      |
|----------|----------------|------|--------------------------------------|
| DSN/SDL  | 190            | 9734 | Spectral Density Dual Spaced Neutron |
| DLL/MGRD | 3030           | 9758 | Dual Laterolog Micro Guard Log       |
|          | 3030           | 9784 | Composite Log                        |
|          |                |      |                                      |
|          |                |      |                                      |
|          |                |      |                                      |
|          |                |      |                                      |

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## OCD TOPS

|              |      |             |      |  |
|--------------|------|-------------|------|--|
| Rustler      | 1266 | Bone Spring | 7103 |  |
| Tansill      |      | 1st Sd      | 8419 |  |
| Yates        | 3209 | 2nd Carb    | 8698 |  |
| 7 rvs        |      | 2nd Sd      | 9228 |  |
|              |      | 3rd Carb    |      |  |
|              |      | 3rd Sd      |      |  |
| Queen        | 3904 | Wolfcamp    |      |  |
| Penrose      |      |             |      |  |
| Grayburg     |      | Strawn      |      |  |
| San Andres   |      | Atoka       |      |  |
| Glorieta     |      | Morrow      |      |  |
| Yeso         |      |             |      |  |
| Abo          |      |             |      |  |
|              |      | Barnett Sh  |      |  |
| Capitan Reef |      | Miss Lime   |      |  |
| Getaway Bank |      |             |      |  |
| Delaware Sd  | 5574 |             |      |  |
|              |      |             |      |  |
|              |      |             |      |  |

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