

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA



FORM APPROVED  
OMB NO 1004-0137  
Expires November 30, 2000

Lease Serial No  
LC-062407

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

|  |  |   |
|--|--|---|
| 1a Type of Well <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Dry Other  |  | 6 If Indian, Allottee or Tribe Name   |
| b Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr.<br>Other _____ |  | 7 Unit or CA Agreement Name and No.   |
| 2 Name of Operator<br>COG Operating Company LLC  |  | 8 Lease Name and Well No<br>Cheyenne Federal #4   |
| 3 Address<br>550 W. Texas, Suite 1300 Midland, TX 79701  | 3a. Phone No (include area code)<br>(432) 685-4332 | 9 API Well No.<br>30-015-35022  |
| 4 Location of Well (Report location clearly and in accordance with Federal requirements)*<br>At surface 790' FSL & 1550' FEL, Unit O<br>At top prod interval reported below<br>At total depth                                |  | 10 Field and Pool, or Exploratory<br>Empire Glorieta-Yeso 96210   |
|  |  | 11 Sec., T., R., M., on Block and Survey or Area 30, T17S, R29E,  |
|  |  | 12 County or Parish<br>Eddy   |
|  |  | 13 State<br>NM  |
| 14 Date Spudded<br>07/19/07  | 15. Date T.D. Reached<br>08/01/07                  | 16 Date Completed <b>9/11/07</b><br><input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. |
|  |  | 17 Elevations (DF, RKB, RT, GL)*<br>3696' GL  |

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OCD-ARTESIA

|  |                                 |   |
|--|---------------------------------|---|
| 18 Total Depth MD 5800<br>TVD  | 19 Plug Back T.D MD 5757<br>TVD | 20. Depth Bridge Plug Set: MD None<br>TVD   |
| 21. Type Electric & Other Mechanical Logs Run (Submit copy of each)<br>CCL, Micro CFL/HNGS |                                 | 22 Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)<br>Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report)<br>Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit copy) |

| 23 Casing and Liner Record (Report all strings set in well) |            |           |          |             |                      |                             |                  |             |               |
|---|------------|-----------|----------|-------------|----------------------|-----------------------------|------------------|-------------|---------------|
| Hole Size   | Size/Grade | Wt (#/ft) | Top (MD) | Bottom (MD) | Stage Cementer Depth | No. of Sks & Type of Cement | Slurry Vol (BBL) | Cement Top* | Amount Pulled |
| 17 1/2  | 13 3/8     | 48        |          | 376         |                      | 880 C                       |                  | Surface     | Circ          |
| 12 1/4  | 8 5/8      | 24        |          | 911         |                      | 600 C                       |                  | Surface     | Circ 80       |
| 7 7/8   | 5 1/2      | 17        |          | 5765        |                      | 1550 C                      |                  | Surface     | Circ. 132     |

| 24 Tubing Record |                |                   |      |                |                   |      |                |                   |  |
|------------------|----------------|-------------------|------|----------------|-------------------|------|----------------|-------------------|--|
| Size             | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) | Size | Depth Set (MD) | Packer Depth (MD) |  |
| 2 7/8            | 5619           |                   |      |                |                   |      |                |                   |  |

| 25 Producing Intervals |     |        |                     | 26. Perforation Record |          |             |  |
|------------------------|-----|--------|---------------------|------------------------|----------|-------------|--|
| Formation              | Top | Bottom | Perforated Interval | Size                   | No Holes | Perf Status |  |
| A) Paddock             |     |        | 5343 - 5386         | 2 SPF                  | 22       | Open        |  |
| B) Paddock             |     |        | 5512 - 5738         | 2 SPF                  | 64       | Open        |  |
| C)                     |     |        |                     |                        |          |             |  |
| D)                     |     |        |                     |                        |          |             |  |

| 27 Acid, Fracture, Treatment, Cement Squeeze, Etc |  |
|---|--|
| Depth Interval                                    | Amount and Type of Material  |
| 5343 - 5386                                       | Acidize w/1765 gals 15% Acid. Frac w/53,129 gals gel, 4493# LiteProp 14/30, 52,965# 16/30 sand.        |
| 5512 - 5738                                       | Acidize w/ 1680 gals 15% Acid. Frac w/96,217 gals gel, 8000# LiteProp 14/30, 90,940# 16/30 white sand. |

| 28 Production - Interval A |                   |              |                 |         |         |           |                      |             |                   |
|----------------------------|-------------------|--------------|-----------------|---------|---------|-----------|----------------------|-------------|-------------------|
| Date First Produced        | Test Date         | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr API | Gas Gravity | Production Method |
| 08/23/07                   | 8/31/07           | 24           | →               | 4       | 9       | 34        | 36.8                 |             | Pumping           |
| Choke Size                 | Tbg Press Flwg SI | Csg Press.   | 24 Hr Rate      | Oil BBL | Gas MCF | Water BBL | Gas Oil Ratio        | Well Status |                   |
|                            |                   |              | →               |         |         |           |                      | Producing   |                   |

| 28a Production - Interval B |                    |              |                 |         |         |           |                      |             |                   |
|-----------------------------|--------------------|--------------|-----------------|---------|---------|-----------|----------------------|-------------|-------------------|
| Date First Produced         | Test Date          | Hours Tested | Test Production | Oil BBL | Gas MCF | Water BBL | Oil Gravity Corr API | Gas Gravity | Production Method |
|                             |                    |              | →               |         |         |           |                      |             |                   |
| Choke Size                  | Tbg Press Flwg. SI | Csg Press    | 24 Hr. Rate     | Oil BBL | Gas MCF | Water BBL | Gas : Oil Ratio      | Well Status |                   |
|                             |                    |              | →               |         |         |           |                      |             |                   |

ACCEPTED FOR RECORD  
SEP 27 2007  
JERRY FANT  
PETROLEUM GEOLOGIST

State of New Mexico

DISTRICT I  
1420 N. FRANCES DR., ROSAS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION  
1220 SOUTH ST. FRANCIS DR.  
Santa Fe, New Mexico 87505

Revised October 12, 2005  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

DISTRICT III  
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV  
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

AMENDED REPORT

|                            |                                    |                                   |
|----------------------------|------------------------------------|-----------------------------------|
| API Number<br>30-015-35022 | Pool Code<br>96210                 | Pool Name<br>Empire Glorieta-Yeso |
| Property Code<br>302469    | Property Name<br>CHEYENNE FEDERAL  | Well Number<br>4                  |
| OGRID No.<br>229137        | Operator Name<br>COG Operating LLC | Elevation<br>3630'                |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 0             | 30      | 17-S     | 29-E  |         | 790           | SOUTH            | 1550          | EAST           | EDDY   |

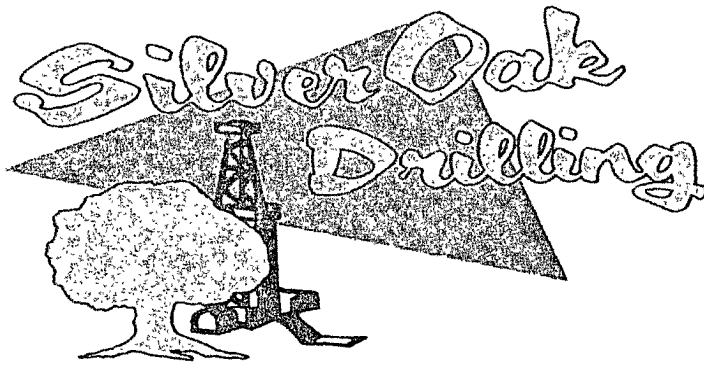
Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
|               |         |          |       |         |               |                  |               |                |        |

|                       |                 |                    |           |
|-----------------------|-----------------|--------------------|-----------|
| Dedicated Acres<br>40 | Joint or Infill | Consolidation Code | Order No. |
|-----------------------|-----------------|--------------------|-----------|

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

|          |       |  |  |  |  |  |
|----------|-------|--|--|--|--|--|
| LOT 1    |       |  |  |  |  | <p><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p><i>Jerry W. Sherrell</i> 5/26/06<br/>Signature Date</p> <p>Jerry W. Sherrell<br/>Printed Name</p> <hr/> <p><b>SURVEYOR CERTIFICATION</b></p> <p><i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i></p> <p>APRIL 05, 2006</p> <p>Date Surveyed MR</p> <p>Signature &amp; Seal<br/>Professional Surveyor<br/>NEW MEXICO<br/>06.11.0598<br/>4/12/06</p> <p>Certificate No. GACR 8938M 12041<br/>PROFESSIONAL SURVEYOR</p> |
| 27.71 AC | LOT 2 |  |  |  |  |  |
| 27.94 AC | LOT 3 | <p>GEODETIC COORDINATES<br/>NAD 27 NME</p> <p>Y=554953.9 N<br/>X=568589.6 E</p> <p>LAT.=32°48'01.29" N<br/>LONG.=104°06'36.40" W</p> |  |  |  |  |
| 28.17 AC | LOT 4 |  |  |  |  |  |
| 28.40 AC |       |  |  |  |  |  |



PO Box 1370  
Artesia, NM 88211-1370  
(505) 748-1288

August 8, 2007

COG, LLC  
Fasken Center, Tower II  
550 West Texas Ave, Suite 1300  
Midland, TX 79701

RE: Cheyenne Federal #4  
990' FSL & 1650' FEL  
Sec. 30, T17S, R29E  
Eddy County, New Mexico

Dear Sir,

The following is the Deviation Survey for the above captioned well.

| <u>DEPTH</u> | <u>DEVIATION</u> | <u>DEPTH</u> | <u>DEVIATION</u> | <u>DEPTH</u> | <u>DEVIATION</u> |
|--------------|------------------|--------------|------------------|--------------|------------------|
| 185.00       | 0.75             | 2146.00      | 2.25             | 3929.00      | 1.00             |
| 336.00       | 1.00             | 2324.00      | 2.50             | 4116.00      | 1.75             |
| 590.00       | 0.50             | 2600.00      | 3.00             | 4457.00      | 1.75             |
| 632.00       | 0.50             | 2785.00      | 2.75             | 4647.00      | 1.50             |
| 827.00       | 0.50             | 2965.00      | 2.50             | 4836.00      | 2.25             |
| 1226.00      | 0.75             | 3159.00      | 2.25             | 5012.00      | 2.25             |
| 1426.00      | 1.25             | 3339.00      | 2.00             | 5181.00      | 2.50             |
| 1626.00      | 1.75             | 3519.00      | 2.00             | 5366.00      | 2.50             |
| 1809.00      | 2.00             | 3713.00      | 2.00             | 5525.00      | 2.25             |
| 1964.00      | 2.50             | 3865.00      | 1.75             |              |                  |

Very truly yours,

Eddie LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 8<sup>th</sup> day of August, 2007.

Notary Public

RECEIVED  
2007 SEP 24 PM 12:34  
REGISTRATION UNIT  
COUNTY CLERK'S OFFICE

