UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO 1004-0137  
Expires November 30, 20005 Lease Serial No  
LC-0624071a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry Other  
b Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr,  
Other \_\_\_\_\_

6. If Indian, Allottee or Tribe Name

7 Unit or CA Agreement Name and No

2 Name of Operator  
COG Operating Company LLC8 Lease Name and Well No  
Cheyenne Federal #43 Address  
550 W. Texas, Suite 1300 Midland, TX 797013a. Phone No (include area code)  
(432) 685-43329 API Well No.  
30-015-35022

4 Location of Well (Report location clearly and in accordance with Federal requirements)\*

At surface 790' FSL &amp; 1550' FEL, Unit O

At top prod. interval reported below

At total depth

SEP 24 2001  
OCD-ARTESIA10 Field and Pool, or Exploratory  
Empire Glorieta-Yeso 9621011 Sec., T, R, M, on Block and  
Survey or Area 30, T17S, R29E,12 County or Parish  
Eddy 13 State  
NM14 Date Spudded  
07/19/0715 Date T.D Reached  
08/01/0716 Date Completed 9/11/07  
☐ D & A ☒ Ready to Prod17 Elevations (DF, RKB, RT, GL)\*  
3696' GL18 Total Depth: MD 5800  
TVD19 Plug Back T.D MD 5757  
TVD20. Depth Bridge Plug Set. MD None  
TVD21. Type Electric & Other Mechanical Logs Run (Submit copy of each)  
CCL, Micro CFL/HNGS22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ 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

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)						

26. Perforation Record

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	
			→						

(See instructions and spaces for additional data on reverse side)

## 28b Production - Interval C

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	

## 28c Production - Interval D

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	

29 Disposition of Gas (Sold, used for fuel, vented, etc.)

## 30 Summary of Porous Zones (Include Aquifers)

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

## 31 Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc	Name	Top
					Meas Depth
Yates	848				
7 Rivers	1142				
Queen	1774				
San Andres	2539				
Glorieta	4072				
Yeso	4193				

32 Additional remarks (include plugging procedure)

## 33. Circle enclosed attachments

- 1 Electrical/Mechanical Logs (1 full set req'd.)    2 Geologic Report    3 DST Report    4 Directional Survey  
5 Sundry Notice for plugging and cement verification    6 Core Analysis    7 Other

34 I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)\*

Name (please print) Kanicia Carrillo Title Regulatory AnalystSignature  Date 09/20/2007

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

## DISTRICT I

1625 N. FRENCH DR., ROSS, NM 88240

## DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87500

## State of New Mexico

Energy, Minerals and Natural Resources Department

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

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

## WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35022	Pool Code 96210	Pool Name Empire Glorieta-Yeso
Property Code 302469	Property Name CHEYENNE FEDERAL	Well Number 4
OGRID No. 229137	Operator Name COG Operating LLC	Elevation 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 40	Joint or Infill	Consolidation Code	Order No.						

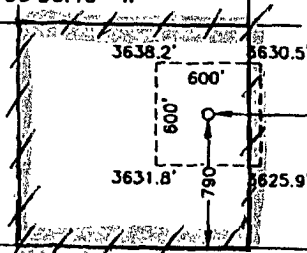
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED  
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

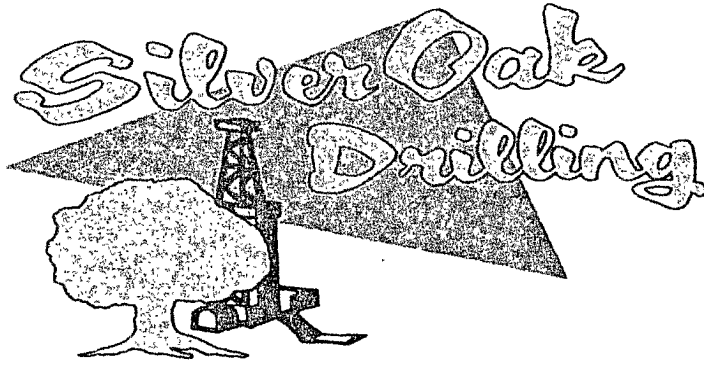
LOT 1					<p><b>OPERATOR CERTIFICATION</b></p> <p>I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or 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.</p> <p><i>Jerry W. Sherrell</i> 5/26/06 Signature Date Jerry W. Sherrell Printed Name</p>
27.71 AC LOT 2					
27.94 AC LOT 3					
28.17 AC LOT 4					
28.40 AC					<p><b>SURVEYOR CERTIFICATION</b></p> <p>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.</p> <p>APRIL 05, 2006</p> <p>Date Surveyed MR</p> <p>Signature &amp; Seal of Professional Surveyor</p> <p><i>GARY E. BOSSON</i> 4/12/06 NEW MEXICO 06.11.0598 Certificate No. GARY E. BOSSON 12641</p>

GEODETIC COORDINATES  
NAD 27 NME

Y=654953.9 N  
X=568589.6 E

LAT.=32°48'01.29" N  
LONG.=104°06'36.40" W





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

