

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

S

FORM APPROVED  
OMB NO 1004-0137  
Expires March 31, 2007

## 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 <input type="checkbox"/> Other		5 Lease Serial No <b>NM-074935</b>							
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, Other _____		6 If Indian, Allottee or Tribe Name ---							
2 Name of Operator <b>COG Operating LLC</b>		7 Unit or CA Agreement Name and No ---							
3 Address <b>550 W. Texas, Suite 1300, Midland, TX 79701</b>		8 Lease Name and Well No <b>Electra Federal #15</b>							
3a Phone No (include area code) <b>432-685-4332</b>		9 AFI Well No <b>30-015-35430 0051</b>							
4 Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>330 FSL &amp; 330 FWL, Unit M</b>  At top prod interval reported below  At total depth  <b>NOV 26 2007</b> <b>OCD-ARTESIA</b>		10 Field and Pool, or Exploratory <b>Loco Hills Glorieta Yeso</b>							
11 Sec., T., R., M., on Block and Survey or Area <b>Sec 10, T17S, R30E</b>		12 County or Parish <b>Eddy</b>							
13 State <b>NM</b>		17 Elevations (DF, RKB, RT, GL)* <b>3695 GL</b>							
14 Date Spudded <b>09/17/2007</b>	15 Date T D Reached <b>09/27/2007</b>	16 Date Completed <b>10/17/2007</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod							
18. Total Depth <b>MD 5925</b> TVD	19 Plug Back T D <b>MD 5904</b> TVD	20. Depth Bridge Plug Set <b>MD</b> TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>CN / HNGS, Micro CFL / HNGS</b>		22 Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit report) 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		448		580 C		1" to Surface	
12-1/4	8-5/8	32		1358		800 C		Surface	348
7-7/8	5-1/2	17		5920		1300 C		Surface	248
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	5836								
25. Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf Status	
A) <b>Yeso</b>				5020 - 5220		2 SPF	36	Open	
B) <b>Yeso</b>				5330 - 5530		2 SPF	36	Open	
C) <b>Yeso</b>				5620 - 5820		2 SPF	60	Open	
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
5020 - 5220		Acidize w/ 2,530 gals acid. Frac w/6,171# LiteProp 14/30, 65,684# 16/30 sand.							
5330 - 5530		Acidize w/ 2,500 gals acid. Frac w/5,660# LiteProp 14/30, 63,279# 16/30 sand.							
5620 - 5820		Acidize w/ 2,500 gals acid. Frac w/5,765# LiteProp 14/30, 61,325# 16/30 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
10/18/2007	10/29/2007	24	→	103	173	446	38.6		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 page 2)

ACCEPTED FOR RECORD

/S/ DAVID R. GLASS

NOV 19 2007

DAVID R. GLASS  
PETROLEUM ENGINEER

## 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.)

SOLD

## 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	1250				
7 Rivers	1550				
Queen	2160				
San Andres	2880				
Yeso	4400				

Bureau of Land Management  
 Received  
 NOV 13 2007  
 Carlsbad Field Office  
 Carlsbad, N.M.

## 32. Additional remarks (include plugging procedure):

## 33. Indicate which items have been attached by placing a check in the appropriate boxes

- ☐ Electrical/Mechanical Logs (1 full set req'd.)   
 ☐ Geologic Report   
 ☐ DST Report   
 ☐ Directional Survey  
☐ Sundry Notice for plugging and cement verification   
 ☐ Core Analysis   
☒ 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 CarrilloTitle Regulatory AnalystSignature Date 11/06/2007

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.

## State of New Mexico

Energy, Minerals and Natural Resources Department

## DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

## DISTRICT II

1301 E. GRAND AVENUE, ARTESIA, NM 88210

## DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

## DISTRICT IV

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

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 30-015-35430	Pool Code 96718	Pool Name Loco Hills; Glorieta-Yeso
Property Code 302483	Property Name ELECTRA FEDERAL	Well Number 15
GRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3695'

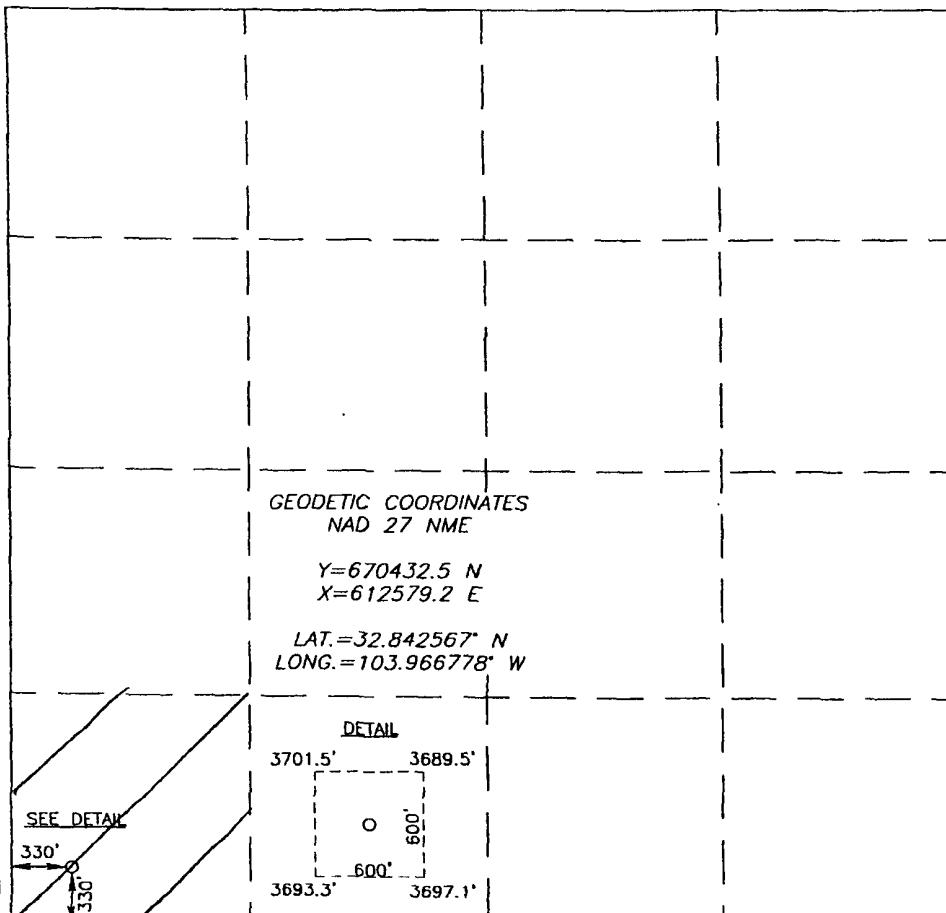
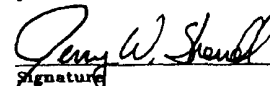
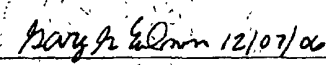
## Surface Location

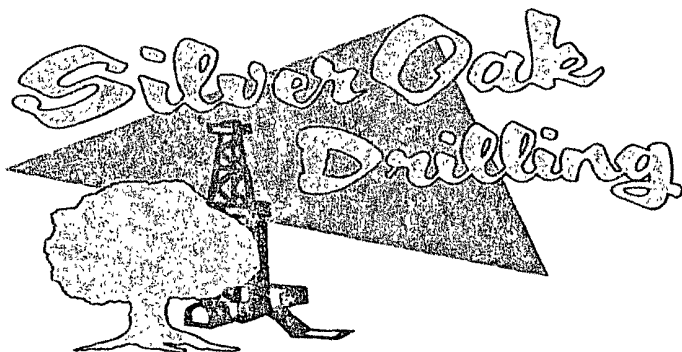
UL or lot No. M	Section 10	Township 17-S	Range 30-E	Lot Idn	Feet from the 330	North/South line SOUTH	Feet from the 330	East/West line WEST	County EDDY
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## Bottom Hole Location If Different From Surface

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

	<b>OPERATOR CERTIFICATION</b> <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>  Signature _____ Date 12/26/06 Jerry W. Sherrell Printed Name
	<b>SURVEYOR CERTIFICATION</b> <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>  NOVEMBER 21, 2006 Date Surveyed _____ LA Signature & Seal of Professional Surveyor  06.11.1793 Certificate No. GARY EDSON 12641
	<b>GEODETIC COORDINATES</b> NAD 27 NME  Y=670432.5 N X=612579.2 E  LAT.=32.842567° N LONG.=103.966778° W
	<b>DETAIL</b> 3701.5' 3689.5' 600' 600' 3693.3' 3697.1'



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

October 3, 2007

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

RE: Electra Federal #15  
330' FSL & 330' FWL  
Sec. 10, T17S, R30E  
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>
187.00	0.50	3260.00	1.00
680.00	1.00	3741.00	1.75
924.00	2.75	4113.00	1.00
1081.00	1.75	4369.00	1.50
1358.00	1.25	4669.00	1.50
1523.00	1.00	4990.00	1.25
1804.00	1.00	5290.00	1.25
2104.00	1.00	5603.00	1.00
2558.00	1.50	5895.00	1.00
2810.00	0.75		

Very truly yours,

Eddie LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 3<sup>rd</sup> day of October, 2007.

  
Notary Public