

OCD-ARTESIA

NOV 05 2007

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTOCD-ARTESIA
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 NM-2933	
1b 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 Resrv, Other _____		6 If Indian, Allottee or Tribe Name ---	
2 Name of Operator COG Operating LLC		7 Unit or CA Agreement Name and No ---	
3 Address 550 W. Texas, Suite 1300, Midland, TX 79701		8 Lease Name and Well No Caddo Federal #3	
3a Phone No (include area code) 432-685-4332		9 AFI Well No 30-015-35700 0051	
4 Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 330 FNL & 990 FEL, Unit A At top prod interval reported below At total depth		10 Field and Pool, or Exploratory Loco Hills; Glorieta Yeso 96718	
14 Date Spudded 09/05/2007		15 Date TD Reached 09/16/2007	
16 Date Completed 10/08/2007 <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		17 Elevations (DF, RKB, RT, GL)* 3679' GL	

18 Total Depth MD 5855 TVD	19 Plug Back TD MD 5801 TVD	20 Depth Bridge Plug Set MD TVD
21 Type Electric & Other Mechanical Logs Run (Submit copy of each) CN / HNGS, Micro CFL / HNGS		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		420		448 C		Surface	Circ 268
12-1/4	8-5/8	32#		1358		700 C		Surface	Circ 186
7-7/8	5-1/2	17		5855		1200 C		Surface	Circ 252

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	5577							

25 Producing Intervals				26 Perforation Record			
Formation	Top	Bottom		Perforated Interval	Size	No Holes	Perf Status
A) Yeso				4780 - 4895	2 SPF	36	Open
B) Yeso				4973 - 5173	2 SPF	36	Open
C) Yeso				5343 - 5543	2 SPF	48	Open
D)							

27 Acid, Fracture, Treatment, Cement Squeeze, etc	
Depth Interval	Amount and Type of Material
4780 - 4895	Acidize w/5,000 gals acid. Frac w/ 46,410 gals gel, 42,848# 16/30 sand.
4973 - 5173	Acidize w/5,000 gals acid. Frac w/ 74,844 gals gel, 63,565# 16/30 sand.
5343 - 5543	Acidize w/5,000 gals acid. Frac w/ 77,280 gals gel, 66,610# 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
10/11/2007	10/14/2007	24	→	94	170	400	38.4		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

OCT 29 2007

JERRY FANT
PETROLEUM GEOLOGIST

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	1210				
7 Rivers	1500				
Queen	3000				
Grayburg	2500				
San Andres	2810				
Glorieta	4250				
Yeso	4310				

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 Analyst

Signature

Date 10/24/2007

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
1220 S. FRANKS DR., BOBBS, NM 88240

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

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

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

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 30-015-35700	Pool Code 96718	Pool Name Loco Hills Glorieta Yeso
Property Code 36176	Property Name CADDO FEDERAL	Well Number 3
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3679'

Surface Location

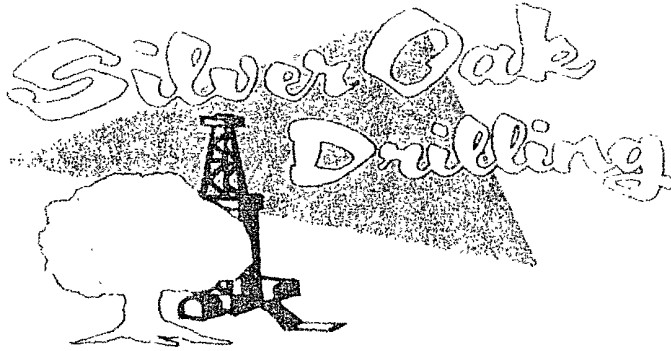
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	17	17-S	30-E		330	NORTH	990	EAST	EDDY

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

<p>DETAIL</p> <p>3681.3' 3680.5'</p> <p>3676.0' 3680.3'</p> <p>600'</p> <p>330'</p> <p>990'</p> <p>SEE DETAIL</p>	<p>OPERATOR CERTIFICATION</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> 6/4/07 Signature Date</p> <p>Jerry W. Sherrell Printed Name</p>
<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=669759.7 N X=605978.5 E</p> <p>LAT.=32.840779° N LONG.=103.988276° W</p>	<p>SURVEYOR CERTIFICATION</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>MAY 10 2007</p> <p>Date Surveyed AR</p> <p>Signature & Seal of Professional Surveyor</p> <p><i>Ronald J. Kidson</i> 2239</p> <p>2007.11.0626</p> <p>Certificate No. RAY KIDSON 12841 RONALD J. KIDSON 3239</p>



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

October 4, 2007

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

RE: Caddo Federal #3
330' FNL & 990' FEL
Sec. 17, 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>
394.00	1.75	2901.00	2.00
524.00	1.00	3132.00	1.00
749.00	1.00	3450.00	0.75
987.00	1.25	3136.00	1.00
1237.00	1.25	4019.00	0.25
1447.00	0.75	4308.00	0.75
1729.00	0.75	4626.00	1.00
2047.00	0.00	4910.00	1.00
2369.00	0.75	5190.00	0.75
2718.00	0.00	5482.00	0.25
2814.00	2.00		

Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 4th day of October, 2007.

Notary Public

