

OCD-ARTESIA

Form 3160-4
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

1a Type of Well ☒ Oil Well ☐ Gas Well ☐ Dry ☐ Other
 b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,
 Other _____

2 Name of Operator **COG Operating LLC**3 Address **550 W. Texas, Ste.1300
Midland, Texas 79701**3a Phone No. (include area code)
432-685-4332

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

At surface **2134' FSL & 2130' FEL, Unit J**

At top prod interval reported below

At total depth

14 Date Spudded
06/11/200715 Date TD Reached
06/25/200716 Date Completed **07/26/2007**
☐ D & A ☒ Ready to Prod.18. Total Depth MD **6500**
TVD19. Plug Back TD MD **6477**
TVD20 Depth Bridge Plug Set MD
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

Comp.Neutron/HNGS, 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#		434		928 CL C		Surf.	300 sxs
12 1/4	8 5/8	32#		1395		800 CL C		Surf.	122 sxs
7 7/8	5 1/2	17#		6490		1825 CL C		Surf.	96 sxs

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	5922							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) Paddock			4466 - 4802	1 SPF	33	Open
B)			4925 - 5093	2 SPF	15	Open
C)			5187 - 5476	2 SPF	33	Open
D)			5590 - 5896	2 SPF	56	Open

27. Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
4466 - 4802	Acidize w/ 2500 gals acid. Frac w/ 89,318 gals gel, 8035# LiteProp, 90,400# 16/30 sand.
4925 - 5093	Acidize w/ 2500 gal acid. Frac w/ 89,767 gals gel, 8000# LiteProp, 90,380# 16/30 sand.
5187 - 5476	Acidize w/ 2500 gals acid. Frac w/ 90,015 gals gel, 8000# LiteProp, 90,220# 16/30 sand.
5590 - 5896	Acidize w/ 2500 gals acid. Frac w/ 95,795 gals gel, 8000# Lite Prop, 90,720# 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
08/03/2007	08/07/2007	24	→	145	190	550	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	
			→						

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
 SEP 21 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	1264				
7 Rivers	1567				
Queen	2181				
Grayburg	2582				
San Andres	2892				
Glorieta	4368				
Yeso	4450				

32. Additional remarks (include plugging procedure):

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

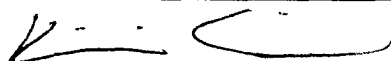
- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

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 Carrillo**

Title **Regulatory Analyst**

Signature



Date **08/14/2007**

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

1826 N. FRENCH DR., ROBBES, 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 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 30-015-35125	Pool Code 96718	Pool Name Loco Hills Paddock
Property Code 302562	Property Name SHAWNEE FEDERAL	Well Number 3
OGRID No. 229137	Operator Name COG OPERATING LLC	Elevation 3693'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
J	15	17-S	30-E		2134	SOUTH	2310	EAST	EDDY

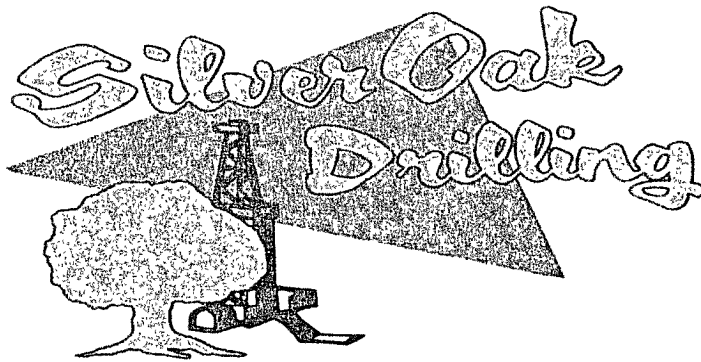
Bottom Hole Location If Different From Surface

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

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=666960.7 N X=615227.4 E</p> <p>LAT.=32°49'58.80" N LONG.=103°57'29.50" W</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> 4/25/06 Signature Date</p> <p>Jerry W. Sherrell Printed Name</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>MARCH 10, 2006</p> <p>Date Surveyed REVISION DATE APRIL 13, 2006 Signature & Seal of Professional Surveyor MR</p> <p><i>Gary A. Edson</i> 4/13/06 06.11.0483</p> <p>Certificate No. GARY EDSON 12641</p>
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PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

July 10, 2007

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

RE: Shawnee Federal #3
2310' FSL & 2310' FEL
Sec. 15, 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>	<u>DEPTH</u>	<u>DEVIATION</u>
189.00	1.50	3030.00	1.50	5464.00	2.00
343.00	1.50	3340.00	1.00	5591.00	1.75
678.00	1.50	3753.00	1.25	5719.00	2.00
1083.00	1.50	4153.00	1.50	5814.00	1.25
1368.00	2.50	4546.00	1.00	5941.00	1.75
1560.00	0.75	5055.00	3.25	6068.00	1.50
1775.00	1.00	5145.00	3.00	6200.00	1.25
1975.00	1.00	5246.00	3.00	6322.00	1.25
2389.00	1.00	5346.00	1.50	6460.00	1.00
2712.00	1.50	5433.00	3.25		

Very truly yours,

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 10th day of July, 2007.

Notary Public