

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

MAY - 5 2008
OCD-ARTESIA

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

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. NMLC029338B		
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 COG OPERATING LLC			Contact: KANICIA CARRILLO E-Mail: kcarrillo@conchoresources.com		
3. Address 550 WEST TEXAS AVE STE 1300 MIDLAND, TX 79701			3a. Phone No. (include area code) Ph: 432-685-4332		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot H 1650FNL 480FEL 32.85163 N Lat, 103.93503 W Lon At top prod interval reported below Lot H 1650FNL 480FEL 32.85163 N Lat, 103.93503 W Lon At total depth Lot H 1650FNL 480FEL 32.85163 N Lat, 103.93503 W Lon			8. Lease Name and Well No. HARVARD FEDERAL 9		
14. Date Spudded 03/11/2008			15. Date T.D. Reached 03/25/2008		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 04/11/2008			9. API Well No. 30-015-35981		
18. Total Depth: MD 6060 TVD			19. Plug Back T.D.: MD 6030 TVD		
20. Depth Bridge Plug Set: MD TVD			10. Field and Pool, or Exploratory LOCO HILLS; GLORIETA-YESO		
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUTRON HNGS/CCL			11. Sec., T., R., M., or Block and Survey or Area Sec 11 T17S R30E Mer		
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 analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			12. County or Parish EDDY		
			13. State NM		
17. Elevations (DF, KB, RT, GL)* 3744 GL					

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17.500	13.375 H40	48.0		445		1355		0	50
12.250	8.625 J55	32.0		1336		900		0	200
7.875	5.500 J55	17.0		6059		1300		0	180

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.875	4942							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) YESO	5080	5280	5080 TO 5280	0.410	36	OPEN
B) YESO	5400	5600	5400 TO 5600	0.410	36	OPEN
C) YESO	5700	5900	5700 TO 5900	0.410	48	OPEN
D)						

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

Depth Interval	Amount and Type of Material
5080 TO 5280	ACIDIZED W/5,000 GALS ACID. FRAC W/110,000 GALS GEL, 112,896# 16/30 SAND, 16,231# SIBERPROP SAND
5400 TO 5600	ACIDIZED W/5,000 GALS ACID. FRAC W/124,000 GALS GEL, 147,706# 16/30 SAND, 29,107# SIBERPROP SAND.
5700 TO 5900	ACIDIZED W/5,000 GALS ACID. FRAC W/63,000 GALS GEL, 71,120# 16/30 SAND, 21,736# SIBERPROP 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
04/18/2008	04/22/2008	24	→	58.0	78.0	508.0	36.0		ELECTRIC PUMPING UNIT
Choke Size	Tbg Press Flwg SI	Csg Press	24 Hr Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
			→					POW	

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)

ELECTRONIC SUBMISSION #60046 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

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	1330				
7 RIVERS	1760				
QUEEN	2360				
SAN ANDRES	3075				
YESO	5020				
TUBB	6010				

32. Additional remarks (include plugging procedure):
Logs will be mailed.

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):

Electronic Submission #60046 Verified by the BLM Well Information System.
For COG OPERATING LLC, sent to the Carlsbad

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature _____ (Electronic Submission)

Date 05/02/2008

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.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

State of New Mexico

DISTRICT I
1225 N. FRENCH DR., HOBBS, 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 30-015-35981	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA-YESO
Property Code 302440	Property Name HARVARD FEDERAL	Well Number 9
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3744'

Surface Location

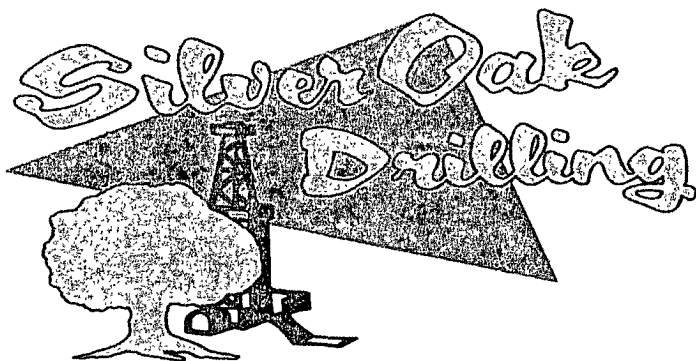
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	11	17-S	30-E		1650	NORTH	480	EAST	EDDY

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>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=673765.5 N X=622316.9 E</p> <p>LAT.=32.851632° N LONG.=103.935032° W</p>		<p>DETAIL</p> <p>3746.1' 3751.7'</p> <p>600' 600'</p> <p>3740.2' 3738.8'</p>		<p>1650'</p> <p>480'</p> <p>SEE DETAIL</p>	<h4>OPERATOR CERTIFICATION</h4> <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>Signature: <i>Phyllis A. Edwards</i> Date: 10-25-07</p> <p>Printed Name: Phyllis A. Edwards</p> <p>Regulatory Analyst</p>
					<h4>SURVEYOR CERTIFICATION</h4> <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>Date Surveyed: 10/24/07</p> <p>Signature & Seal of Professional Surveyor: <i>Ronald Eidson</i> 3239</p> <p>Certificate No. GARY EIDSON 12841 RONALD EIDSON 3239</p>



PO Box 1370
Artesia, NM 88211-1370
(575) 748-1288

March 27, 2008

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

RE: Harvard Federal #9
1650' FNL & 480' FEL
Sec. 11, 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>
445.00	0.75	3355.00	0.50
750.00	1.00	3672.00	0.75
1066.00	1.25	3990.00	0.75
1336.00	1.00	4276.00	1.00
1449.00	1.00	4563.00	1.00
1730.00	1.00	4880.00	1.00
2021.00	1.00	5294.00	1.00
2431.00	0.25	5612.00	1.00
2751.00	0.25	5990.00	0.25
3068.00	0.25		

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 27th day of March, 2008.

Notary Public

