

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCT 06 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 W TEXAS, STE 1300 FASKEN TOWER II 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)* Sec 12 T17S R30E Mer NMP At surface NWNW 330FNL 990FWL At top prod interval reported below At total depth		8. Lease Name and Well No. HARVARD FED 11	
14. Date Spudded 07/24/2008		15. Date T.D Reached 08/04/2008	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 09/08/2008		9. API Well No. 30-015-35960-00-S1	
18. Total Depth: MD TVD 6055		19. Plug Back T.D.: MD TVD 6004	
20. Depth Bridge Plug Set: MD TVD		10. Field and Pool, or Exploratory LOCO HILLS	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATEDNEUT		11. Sec, T, R, M., or Block and Survey or Area Sec 12 T17S R30E Mer NMP	
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	
23. Casing and Liner Record (Report all strings set in well)		13. State NM	
24. Tubing Record		17. Elevations (DF, KB, RT, GL)* 3766 GL	

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		430		1080		0	20
11.000	8.625 J55	32.0		1321		700		0	178
7.875	5.500 J55	17.0		6054		1350		0	316

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 875	5003							

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) GLORIETA YESO			5110 TO 5310	0.410	36	OPEN
B) YESO	5700	5900	5400 TO 5600	0.410	36	OPEN
C)			5700 TO 5900	0.410	48	OPEN
D)						

Depth Interval	Amount and Type of Material
5110 TO 5310	ACIDIZE W/2,500 GALS ACID. FRAC W/77,000 GALS GEL, 67,387# 16/30 SAND, 10,662# CRC SAND
5400 TO 5600	ACIDIZE W/2,500 GALS ACID. FRAC W/120,000 GALS GEL, 144,660# 16/30 SAND, 28,131# CRC SAND
5700 TO 5900	ACIDIZE W/2,500 GALS ACID. FRAC W/133,000 GALS GEL, 147,487# 16/30 SAND, 31,634# CRC SAND

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr API	Gas Gravity	Production Method
09/11/2008	09/12/2008	24	→	173.0	442.0	868.0	37.0		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	
	SI		→	173	442	868		POW	

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	
	SI		→						

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

ELECTRONIC SUBMISSION #63399 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED **

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

ACCEPTED FOR RECORD

OCT 1 2008

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	1470				
QUEEN	2090				
SAN ANDRES	2790				
YESO	4320				
TUBB	5790				

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 #63399 Verified by the BLM Well Information System.

For COG OPERATING LLC, sent to the Carlsbad

Committed to AFMSS for processing by KURT SIMMONS on 09/26/2008 (08KMS2789SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 09/26/2008

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.

** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED ** REVISED **

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

State of New Mexico
Energy, Minerals and Natural Resources Department

DISTRICT II
1301 W GRAND AVENUE, ARTESIA, NM 88210

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35960	Pool Code 96718	Pool Name LOCO HILLS; GLORIETA-YESO
Property Code 302440	Property Name HARVARD FEDERAL	Well Number 11
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3766'

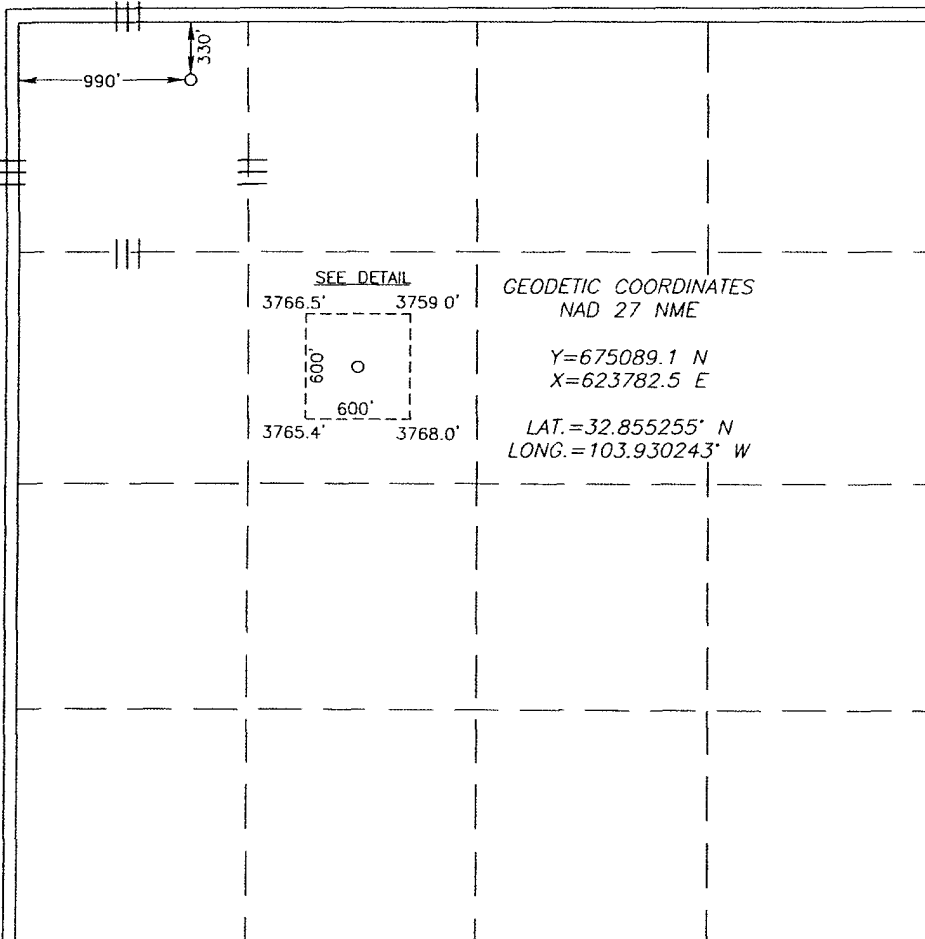
Surface Location

UL or lot No. D	Section 12	Township 17-S	Range 30-E	Lot Idn	Feet from the 330	North/South line NORTH	Feet from the 990	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



OPERATOR CERTIFICATION

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.

Signature: *Phyllis A. Edwards* Date: 10/5/07

Phyllis A. Edwards

Printed Name

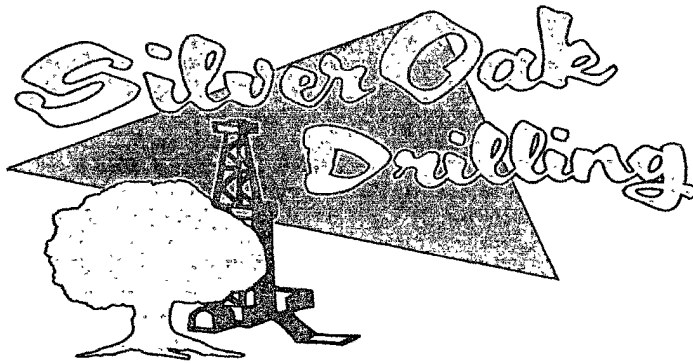
Regulatory Analyst

SURVEYOR CERTIFICATION

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.

SEPTEMBER 20 2007
Date Surveyed
Signature & Seal of Professional Surveyor
3239
RONALD EIDSON
10/13/07

Certificate No. GARY EIDSON 12641
RONALD EIDSON 3239



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

August 18, 2008

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

RE: Harvard Federal #11
330' FNL & 990' FWL
Sec. 12, 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>
430.00	0.75	3346.00	0.75
662.00	0.75	3666.00	0.50
1137.00	0.75	3984.00	0.25
1321.00	0.75	4304.00	0.75
1498.00	0.50	4622.00	0.50
1786.00	0.25	4972.00	0.50
2105.00	0.50	5280.00	0.50
2422.00	0.50	5609.00	1.00
2774.00	0.75	5985.00	0.50
3061.00	0.50		

Very truly yours,

Eddie C. LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 18th day of August, 2008.

Notary Public