

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTAUG 18 2008  
OCD-ARTESIAFORM 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. Resv. Other		6 If Indian Allottee or Tribe Name	
2 Name of Operator COG OPERATING LLC		7 Unit or CA Agreement Name and No	
Contact KANICIA CARRILLO E-Mail kcarrillo@conchoresources.com		8 Lease Name and Well No HARVARD FEDERAL 10	
3 Address 550 WEST TEXAS AVE STE 1300 MIDLAND, TX 79701		9 API Well No 30-015-36077	
3a Phone No. (include area code) Ph. 432-685-4332		10 Field and Pool, or Exploratory LOCO HILLS, GLORIETA-YESO	
4 Location of Well (Report location clearly and in accordance with Federal requirements)* At surface Lot E 1690FSL 1055FWL 32 85152 N Lat 103 93004 W Lon At top prod interval reported below Lot E 1690FSL 1055FWL 32 85152 N Lat, 103.93004 W Lon At total depth Lot E 1690FSL 1055FWL 32 85152 N Lat, 103 93004 W Lon		11 Sec., T., R., M., or Block and Survey or Area Sec 12 T17S R30E Mer	
14 Date Spudded 05/25/2008		15 Date T.D. Reached 06/08/2008	
16 Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 07/02/2008		17 Elevations (DF, KB, RI, GL)* 3757 GL	
18 Total Depth MD IVD 6079		19 Plug Back T.D. MD IVD 6017	
20 Depth Bridge Plug Set MD IVD		21 Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATED NEUTRON CCL	
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)			

## 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
17 500	13 375 H40	48 0		409		880		0	200
11 000	8 625 J55	32 0		1308		600		0	176
7 875	5 500 J55	17 0		6078		1750		0	430

## 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	4989							

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status
A) YESO	5100	5300	5100 TO 5300	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)						

## 26. Perforation Record

Depth Interval	Amount and Type of Material
5100 TO 5300	ACIDIZE W/3,562 GALS ACID FRAC W/125,200 GALS GEL, 148,400# 16/30 SAND, 30,000# SIBERPROP SAND
5400 TO 5600	ACIDIZE W/3,500 GALS ACID FRAC W/125,286 GALS GEL, 148,400# 16/30 SAND, 30,000# SIBERPROP SAND
5700 TO 5900	ACIDIZE W/3,500 GALS ACID FRAC W/120,415 GALS GEL, 148,400# 16/30 SAND, 30,000# 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
07/09/2008	07/15/2008	24	→	95.0	21.0	629.0	37.2		ELECTRIC PUMPING UNIT
Choke Size	Eng. Press. Flow	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas Oil Ratio	Well Status	
SI			→					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	Eng. Press. Flow	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 #62359 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	Tub. Press Flow St	Cup 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	Tub. Press Flow St	Cup 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	2355					
SAN ANDRES	3080					
YESO	4600					

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 #62359 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Carlsbad**

Name (please print) KANICIA CARRILLOTitle PREPARER

Signature \_\_\_\_\_ (Electronic Submission)

Date 08/15/2008

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1717 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 \*\***

DISTRICT I  
1825 N FRENCH DR., HORRIS, NM 88240

DISTRICT II  
1301 W. GRAND AVENUE, ARTESIA, NM 80210

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 30-015-30077	Pool Code 96718	Pool Name Loco Hills: Glorieta-Yaso
Property Code 302440	Property Name HARVARD FEDERAL	Well Number 10
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3757'

Surface Location

UL or lot No. E	Section 12	Township 17-S	Range 30-F	Lot Idn	Feet from the 1690	North/South line NORTH	Feet from the 1055	East/West line WEST	County EDDY
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Bottom Hole Location If Different From Surface

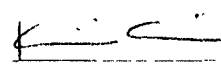
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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Dedicated Acres 40	Joint or Infill	Consolidation Code	Order No
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NO ALLOWABLE WILL BE 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.

 08/12/08

Signature Date

Kanicia Carrillo

Printed Name

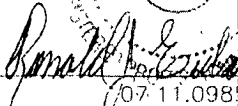
SURVEYOR CERTIFICATION

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.

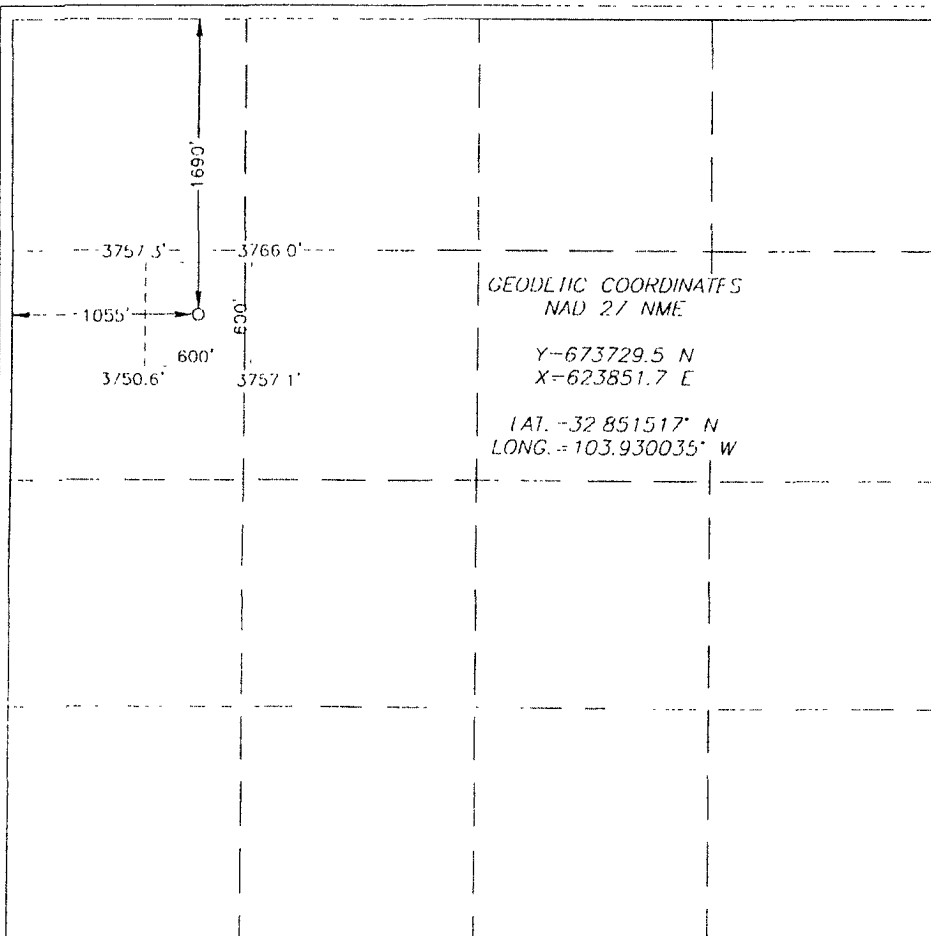
SEPTEMBER 14, 2007

Date Surveyed LA

Signature & Seal  
Professional Surveyor

 9/12/07  
07-11-0985

Certificate No. GARY EIDSON 12641  
RONALD EIDSON 3239





June 23, 2008

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

RE: Harvard Federal #10  
1690' FNL & 1055' FWL  
Sec. 12, T17S, R30E  
Eddy, 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>
587.00	1.00	3305.00	0.75
767.00	1.00	3504.00	1.00
990.00	1.00	3750.00	1.25
1244.00	1.00	4005.00	1.00
1398.00	1.00	4132.00	1.25
1622.00	1.25	4453.00	1.25
1844.00	0.75	4737.00	1.25
2170.00	1.25	4930.00	1.25
2416.00	1.00	5255.00	1.00
2606.00	1.00	5407.00	0.50
2837.00	0.75	6009.00	0.50
3050.00	0.25		

Very truly yours,

Eddie C. LaRue  
Operations Manager

State of New Mexico }  
County of Eddy }

The foregoing was acknowledged before me this 23<sup>rd</sup> day of June, 2008.

  
Notary Public