

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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			6. If Indian, Allottee or Tribe Name		
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 _____			7. Unit or CA Agreement Name and No.		
2. Name of Operator COG OPERATING LLC			8. Lease Name and Well No. MIRANDA FEDERAL 16		
3. Address 550 WEST TEXAS AVENUE SUITE 100 MIDLAND, TX 79701-4287			9. API Well No. 30-015-38050-00-S1		
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SENE Lot G 2310FNL 1650FEL At top prod interval reported below SWNE Lot G 2310FNL 1650FEL 32.85398 N Lat, 103.95174 W Lon At total depth SWNE Lot G 2310FNL 1650FEL 32.85398 N Lat, 103.95174 W Lon			10. Field and Pool, or Exploratory LOCO HILLS GLORIETA-YESO		
14. Date Spudded 09/12/2010			11. Sec., T., R., M., or Block and Survey or Area Sec 9 T17S R30E Mer NMP		
15. Date T.D. Reached 09/22/2010			12. County or Parish EDDY		
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 10/26/2010			13. State NM		
17. Elevations (DF, KB, RT, GL)* 3696 GL					
18. Total Depth: MD 6027 TVD 6027		19. Plug Back T.D.: MD 5970 TVD 5970		20. Depth Bridge Plug Set: MD TVD	
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) COMPENSATEDNEUT				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	0	426		450		0	0
11.000	8.625 J55	24.0	0	1304		500		0	0
7.875	5.500 J55	17.0	0	6017		1050		0	0

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	5557							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PADDOCK	4440	4720	4440 TO 4720	0.410	26	OPEN, Paddock
B) BLINEBRY	5590	5790	5050 TO 5250	0.410	26	OPEN, Blinebry
C)			5320 TO 5520	0.410	26	OPEN, Blinebry
D)			5590 TO 5790	0.410	26	OPEN, Blinebry

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

Depth Interval	Amount and Type of Material
4440 TO 4720	ACIDIZE W/3,000 GALS 15% ACID.
4440 TO 4720	FRAC W/100,548 GALS GEL, 101,871# 16/30 OTTAWA SAND, 29,920# 16/30 SIBERPROP SAND.
5050 TO 5250	ACIDIZE W/3,500 GALS 15% ACID.
5050 TO 5250	FRAC W/113,927 GALS GEL, 145,926# 16/30 OTTAWA SAND, 24,317# 16/30 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
11/30/2010	11/30/2010	24	→	142.0	96.0	448.0	39.7	0.60	ELECTRIC PUMPING UNIT
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 70.0	24 Hr. Rate →	Oil BBL 142	Gas MCF 96	Water BBL 448	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 #98802 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

**\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\***

RECEIVED  
DEC 22 2010  
OCD ARTESIA

ACCEPTED FOR RECORD  
ELECTRIC PUMPING UNIT

DEC 19 2010

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

*Art*

## 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	1269		DOLOMITE & SAND	YATES	1269
QUEEN	2168		SAND	QUEEN	2168
SAN ANDRES	2894		DOLOMITE & ANHYDRITE	SAN ANDRES	2894
GLORIETA	4349		SAND & DOLOMITE	GLORIETA	4349
PADDOCK	4434		DOLOMITE & ANHYDRITE		
TUBB	5851		SAND		

## 32. Additional remarks (include plugging procedure):

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

5320 - 5520 ACIDIZE W/3,500 GALS 15% ACID.

5320 - 5520 FRAC W/115,430 GALS GEL, 147,488# 16/30 OTTAWA SAND, 29,102# 16/30 SIBERPROP.

5590 - 5790 ACIDIZE W/3,500 GALS 15% ACID.

5590 - 5790 FRAC W/116,670 gals gel, 148,990# 16/30 OTTAWA SAND, 30,381# 16/30 SIBERPROP.

## 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 #98802 Verified by the BLM Well Information System.  
For COG OPERATING LLC, sent to the Carlsbad  
Committed to AFMSS for processing by CHERYLE RYAN on 12/09/2010 (11CMR0132SE)

Name (please print) KANICIA CARRILLO

Title PREPARER

Signature (Electronic Submission)

Date 12/09/2010

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 \*\***

*DA*

**Additional data for transaction #98802 that would not fit on the form**

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

<b>Depth Interval</b>	<b>Amount and Type of Material</b>
5320 TO 5520	ACIDIZE W/3,500 GALS 15% ACID
5320 TO 5520	FRAC W/ 115,430 GAL GEL, 147488# 16/30 OTTAWA SAND, 29102# 16/30 SIBERPROP
5590 TO 5790	ACIDIZE W/ 3500 GAL 15% ACID
5590 TO 5790	FRAC W/ 116670 GAL GEL, 148990# OTTAWA SAND, 30381# 16/30 SIBERPROP

Chk