

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
OCD - ARTESIAFORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. <b>NMLC-069033</b>							
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 <b>COG Operating LLC</b>		7. Unit or CA Agreement Name and No.							
3. Address <b>550 W. Texas, Suite 1300</b>		8. Lease Name and Well No. <b>Blue Thunder 5 Federal #1</b>							
3a. Phone No. (include area code) <b>432-685-4340</b>		9. AFI Well No. <b>30-015-34991</b>							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface <b>1980' FNL &amp; 660' FEL, Unit H</b> At top prod. interval reported below At total depth		10. Field and Pool, or Exploratory <b>Lusk Morrow Gas West</b>							
14. Date Spudded <b>09/10/2006</b>		11. Sec., T., R., M., on Block and Survey or Area <b>Sec 5, T19S, R31E</b>							
15. Date T.D. Reached <b>10/19/2006</b>		12. County or Parish <b>Eddy</b>							
16. Date Completed <b>11/30/2006</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod.		13. State <b>NM</b>							
17. Elevations (DF, RKB, RT, GL)* <b>3587' GL</b>									
18. Total Depth: MD TVD <b>12,310</b>	19. Plug Back T.D.: MD TVD <b>12,200</b>	20. Depth Bridge Plug Set: MD TVD <b>None</b>							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>Micro CFL / HNGS &amp; CN HNGS</b>		22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes (Submit report) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> 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	555			470 C		Surf	142 sx to pit
12-1/4	8-5/8	32	3,625			1300 C		Surf	180 sx to pit
7-7/8	5-1/2	17	12,310			1475 C & H		2900	
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	12,079	12,069	4-1/2						
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A)			12,084 - 12,098	4 SPF	56	Open			
B)									
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval	Amount and Type of Material								
NONE	NONE								
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
12/07/2006	12/10/2006	24	→	204	4552	0		51.7	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
15/64	3250		→				22,314	PRODUCING	
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. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

\*(See instructions and spaces for additional data on page 2)

## 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
ANHY	650				
7 RIVERS	3,620				
DELAWARE	4,910				
BONE SPRING	6,450				
WOLFCAMP	9,902				
PENN	10,295				
STRAWN	10,868				
ATOKA	11,168				
MORROW	11,402				
L. MORROW	12,050				

## 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) Phyllis A. EdwardsTitle Regulatory AnalystSignature Phyllis A. EdwardsDate 12/18/2006

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.

OPERATOR  
WELL/LEASE  
COUNTY

COG Operating  
Blue Thunder 5 Fed. Com. 1  
Eddy Co., N.M.

056-0026

24  
RECEIVED  
OCD - ARTESIA

STATE OF NEW MEXICO  
DEVIATION REPORT

173	0.75	8,665	1.25
936	1.25	8,810	1.25
1,221	1.00	9,280	1.25
1,505	1.00	9,477	1.00
1,822	0.25	9,765	0.75
2,075	1.00	10,115	1.25
2,360	1.00	10,463	0.25
2,646	0.75	10,717	0.50
2,931	1.00	11,034	1.00
3,248	1.00	11,346	1.00
3,597	1.00	11,689	1.75
3,908	0.25	11,955	2.00
4,195	0.25	12,268	2.00
4,538	1.00	12,310 T.D.	2.00
4,822	0.75		
5,138	0.00		
5,455	1.00		
5,805	0.75		
6,118	1.25		
6,472	1.25		
6,820	1.25		
6,946	1.25		
7,137	2.00		
7,395	1.00		
7,517	2.25		
7,643	2.25		
7,770	1.75		
7,991	1.75		
8,118	2.25		
8,245	2.00		
8,377	1.75		
8,530	1.25		

STATE OF TEXAS

COUNTY OF MIDLAND

BY: Steve Moore

The foregoing instrument was acknowledged before me on  
Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

October 30, 2006, by Steve

Joni D. Hodges  
Notary Public for Midland County, Texas  
My Commission Expires: 4/08/07

