

## N.M. Oil Cons. Div-Dist. 2

1301 W. Grand Avenue

Form 3160-4  
(April 2004)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Artesia, NM 88210

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

- 1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,  
Other \_\_\_\_\_

2. Name of Operator **CHESAPEAKE OPERATING, INC.**3. Address **P.O. BOX 18496, OKLAHOMA CITY, OK  
73154-0496**

3a. Phone No. (include area code)

4. Location of Well (Report location clearly and in accordance with Federal requirements)

At surface **1980 FNL & 710 FWL, SWNW**At top prod. interval reported below **SAME**At total depth **SAME**14. Date Spudded  
**11/02/2006**15. Date T.D. Reached  
**11/11/2006**16. Date Completed **12/15/2006**  
☐ D & A ☒ Ready to Prod.17. Elevations (DF, RKB, RT, GL)\*  
**3818 GR / 3829 DF / 3830**18. Total Depth: **MD 5750'**  
**TVD**19. Plug Back T.D.: **MD 5200'**  
**TVD**20. Depth Bridge Plug Set: **MD 5200'**  
**TVD**

21. Type Electric &amp; Other Mechanical Logs Run (Submit copy of each)

**DLL/MLL/GR ZDL/CNL/SL/GR**22. Was well cored? ☒ No ☐ Yes (Submit analysis)  
Was DST run? ☒ No ☐ Yes (Submit report)  
Directional Survey? ☒ No ☐ 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
18	14		0	40'		3 yd RediMix		Surface	
11	8 5/8	24#	0	908'		400sx Class C		Surface	
7 7/8	5 1/2	15.5#	0	5750'		975sx Class C		Surface	

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 3/8	4367'	4370'						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A)			5245' - 5249'			Closed
B) Abo "C"	4458'	4576'	4458' - 4576'			Open
C)						
D)						

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

Depth Interval	Amount and Type of Material
5245' - 5249'	Acid w/2000 gal 15% NeFe + 50 Ball Sealers
4458' - 4576'	Acid w/1500 gal 15% NeFe + 50 Ball Sealers. Frac w/18,270 gal Binary fluid, 71,000# 16/40 Brown sd w/60Q

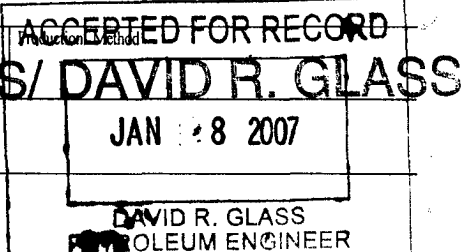
28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
12/16/2006	01/04/2007	24	→	0	675	0			Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
25/64	SI 275		→	0	675	0		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.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
	SI		→						

\*(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
	0	856'	856' redbeds	San Andres	856'
	856'	2032'	1176' dolomite, anhydrite & limestone	PI marker	1258'
	2032'	2232'	200' sand, salt & shale	Glorieta	2032'
	2232'	3445'	1213' dolomite, anhydrite, salt, sand & shale	Upper Clearfork	2232'
	3445'	3607'	162' sand	Tubb	3445'
	3607'	4205'	598' dolomite & anhydrite	Drinkard	3607'
	4205'	5037'	832' sand & shale	Abo	4205'
	5037'	5451'	414' shale & limestone	Wolfcamp	5037'
	5451'	5631'	180' limestone & shale	Penn	5451'
	5631'	TD	119' granite	Pre-Cambrian	5631'
				TD	5750'

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

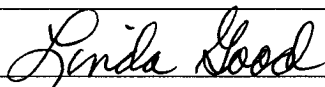
## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ 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) LINDA GOODTitle PERMITTING AGENT

Signature

Date 01/04/2007

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.

WELL NAME AND NUMBER Comanache Hill 18 Federal#1

LOCATION Section 18, T10S, R26E, 1980 FNL, 660FWL, Chaves County

OPERATOR Cheasapeake Operating, Inc.

DRILLING CONTRACTOR United Drilling, Inc.

The undersigned hereby certifies that he is an authorized representative of the drilling contractor who drilled the above described well and had conducted deviation test and obtained the following results:

<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>	<u>Degrees @ Depth</u>
<u>1/2 @ 268'</u>	<u>2 @ 2962'</u>	<u>                    </u>
<u>1/2 @ 568'</u>	<u>2 @ 3309'</u>	<u>                    </u>
<u>1 @ 908'</u>	<u>2 @ 3720'</u>	<u>                    </u>
<u>1-1/4 @ 1225'</u>	<u>3/4 @ 4163'</u>	<u>                    </u>
<u>1-1/4 @ 1572'</u>	<u>3/4 @ 4637'</u>	<u>                    </u>
<u>1-1/4 @ 1920'</u>	<u>1 @ 5111'</u>	<u>                    </u>
<u>1-1/4 @ 2267'</u>	<u>1 @ 5726'</u>	<u>                    </u>
<u>2 @ 2614'</u>	<u>                    </u>	<u>                    </u>

Drilling Contractor- UNITED DRILLING, INC.

By: Luisa Garcia

(Luisa Garcia)

Title: Assistant Office Manger

Subscribed and sworn to before me this 14 day of Nov, 2006.

Notary Public

Chaves

County

NM

State

My Commission Expires:

10-8-08