

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

## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

5. Lease Serial No  
NM-84729

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.  
CUERVO FEDERAL #3 ✓

9. AFI Well No.  
30-025-38680 /

10. Field and Pool, or Exploratory  
DIAMONDTAIL DELAWARE

11. Sec., T., R., M., on Block and  
Survey or Area S14-T23S-R32E ✓

12. County or Parish  
LEA ✓

13. State  
NM ✓

14. Date Spudded  
09/24/2008

15. Date T.D. Reached  
10/20/2008

16. Date Completed  
☒ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)\*

18. Total Depth: MD 8000'  
TVD

19. Plug Back T.D.: MD 7948'  
TVD

20. Depth Bridge Plug Set: MD  
TVD

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

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 Cement Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
24"	20"		0'	40'	40'	READY MIX		SURFACE	NONE
17 1/2"	13 3/8"	48#	SURF	1169'	1169'	655 & 300 C		CIRC 50 SX	NONE
11"	8 5/8 K5	32#	SURF	4765'	4765'	200SX CL "C			NONE
						150SX CL "C		CIRC 81 SX	NONE
7 7/8"	5 1/2 J55	17#	SURF	8003'	8003'	700 SX LITE		3700'	NONE

## 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"	7900'	NONE						

## 25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf. Status
A) ATTACHEMENT						
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
ATTACHEMENT	

## 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
12/22/2008	12/25/2008	24	→	31	25	165	39*	11	PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 35#	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
		60#	→	31	25	165	1:1		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
12/22/2008	01/05/2009	24	→	30	30	181	39*	11	PUMPING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. 35#	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
		60#	→	30	30	181	1:1		PRODUCING

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

RECEIVED

SEP 21 2009

HOBBSOCD

ACCEPTED FOR RECORD

Petroleum Engineer

SEP 17 2009

Is/ Roger Hall

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

KZ

## 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
<b>RUSTLER</b>	<b>1190'</b>	<b>1620'</b>	<b>ANHYDRITE</b>		
<b>SALT</b>	<b>1620'</b>	<b>4680'</b>	<b>SALT</b>		
<b>ANHYDRITE</b>	<b>4680'</b>	<b>4940'</b>	<b>ANHYDRITE</b>		
<b>LAMAR</b>	<b>4940'</b>	<b>4975'</b>	<b>LIMESTONE</b>		
<b>DELAWARE</b>	<b>4975'</b>	<b>8000'</b>	<b>SANDSTONE &amp; SHALE</b>		

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

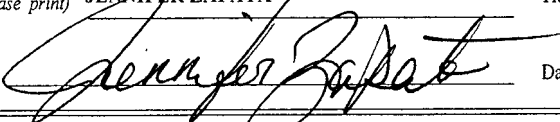
## 33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☐ 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) **JENNIFER ZAPATA**Title **PRODUCTION ANALYST**

Signature


Date **09/02/2009**

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.

### Producing Intervals

<u>Formation</u>	<u>Top</u>	<u>Bottom</u>	<u>Perforated Interval</u>	<u>Size</u>	<u># Holes</u>	<u>Perf Status</u>
Delaware			7449, 50, 51, 52	0.42	4	PRODUCING
Delaware			7389, 90, 91, 92, 93	0.42	5	PRODUCING
Delaware			7355, 56, 57, 58, 62, 66, 67, 71, 72, 73	0.42		PRODUCING
Delaware			7267, 69, 70, 72, 73, 74	0.42	9	PRODUCING
Delaware			7148, 49, 50	0.42		PRODUCING
Delaware			7093, 94, 95, 96, 97, 7100, 01	0.42	7	PRODUCING
Delaware			7060, 61, 62, 63, 64	0.42	5	PRODUCING

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

<u>Depth Interval</u>	<u>Amount and Type of Material</u>
7449-52'	ACIDIZE 2/ 1800 GAL 7 1/2% NEFE FRAC W/ 620 BBLS. PLACE 5650# LITE-PROP 14/30 ON FORMATION
7389-93'	ACIDIZE W/ 1500 GAL 7 1/2% NEFE FRAC 2/ 600 BBLS. PLACE 4100# LITE-PROP 14/30 ON FORMATION
7355-73'	ACIDIZE W/ 1500 GAL 7 1/2% NEFE W/ 20 BALL SEALERS
7267-74	ACIDIZE W/ 1000 GAL 7 1/2% NEFE W/ 12 BALL SEALERS
7148-50	ACIDIZE W/ 750 GAL 7 1/2% NEFE W/6 BALL SEALERS
7093-7101	ACIDIZE W/ 750 GAL 7 1/2% NEFE W/ 18 BALL SEALERS.
7060-7101	ACIDIZE W/ 2500 GAL OF 7 1/2% NEFE W/ 8 BALL SEALERS. FRAC W/ 20,957# OF 20/40 JORDAN-UNIMIN & 20/40 SUPER LC SAND.