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Form 3160-4  
(August 2007)

JUL 24 2013

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFarmington Field Office  
Bureau of Land ManagementFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

## 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>SF-078135</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.						6. If Indian, Allottee or Tribe Name <b>WMNM - 78394 B</b>			
Other: _____						7. Unit or CA Agreement Name and No. <b>HUERFANITO UNIT</b>			
2. Name of Operator <b>Burlington Resources Oil &amp; Gas Company</b>						8. Lease Name and Well No. <b>HUERFANITO UNIT #87N</b>			
3. Address <b>PO Box 4289, Farmington, NM 87499</b>				3a. Phone No. (include area code) <b>(505) 326-9700</b>		9. API Well No. <b>30-045-34872-00C1</b>			
4. Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>UNIT L (NWSW) 1432' FSL &amp; 382' FWL,</b>  At top prod. Interval reported below <b>SAME AS ABOVE</b>  At total depth <b>SAME AS ABOVE</b>						10. Field and Pool or Exploratory <b>BASIN DAKOTA</b>			
14. Date Spudded <b>3/25/2013</b>						15. Date T.D. Reached <b>4/28/2013</b>		16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. <b>7/1/13 GRS</b>	
17. Elevations (DF, RKB, RT, GL)* <b>6159' GL / 6174' KB</b>						11. Sec., T., R., M., on Block and Survey <b>SURFACE: SEC: 1, T26N, R9W</b>			
12. County or Parish <b>San Juan</b>						13. State <b>New Mexico</b>			
18. Total Depth: MD <b>6529'</b> TVD			19. Plug Back T.D.: MD <b>6498'</b> TVD			20. Depth Bridge Plug Set: MD TVD			
21. Type Electric & Other Mechanical Logs Run (Submit copy of each) <b>GR/CCL/CBL</b>						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 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
12 1/4"	9 5/8" / H-40	32.3#	0	230'	n/a	76 sx - Premium Lite	22 bbls	Surface	6 bbls
8 3/4"	7" / J-55	23#	0	3710'	1647'	482 sx - Premium Lite	177 bbls	Surface	76 bbls
6 1/4"	4 1/2" / L-80	11.6#	0	6520'	n/a	304 sx - Premium Lite	108 bbls	3110'	n/a
RCU III 28 12 OIL COM. DIV. DIST. 3									
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", 4.7#, J-55	6389'	n/a							
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Dakota	6426'	6488'	2 spf	.34"	26	open			
B) Dakota	6272'	6398'	1 spf	.34"	34	open			
C)									
D)									
total holes					60				
27. Acid, Fracture, Treatment, Cement Squeeze, etc.									
Depth Interval			Amount and Type of Material						
6272' - 6488'			Acidized w/10 bbls 15% HCL; Frac'd w/34,200# gal slickwater foam w/40,160# 20/40 Brady sand & 2,017,000 scf N2						
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
7/1/13 GRS	7/9/2013	1hr.	→	trace	2 mcf/h	1 bwph			FLOWING
Choke Size	Tbg. Press. Flwg. SI	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/2"	SI - 537 psi	381 psi	→	1 bopd	49 mcf/d	15 bwph			SHUT IN
28b. 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)

ACCEPTED FOR RECORD

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JUL 25 2013

FARMINGTON FIELD OFFICE  
BY William Tambekou

## 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 (Solid, used for fuel, vented, etc.)

## TO BE SOLD

## 30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem test, 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
Ojo Alamo	1042	1189	White, cr-gr ss	Ojo Alamo	1042	1042
Kirtland	1189	1641	Gry sh interbedded w/tight, gry, fine-gr ss.	Kirtland	1189	1189
Fruitland	1641	1881	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss.	Fruitland	1641	1641
Pictured Cliffs	1881	2020	Bn-Gry, fine grn, tight ss.	Pictured Cliffs	1881	1881
Lewis	2020	2784	Shale w/ siltstone stringers	Lewis	2020	2020
Huerfano Bentonite	2350	3449	White, waxy chalky bentonite	Huerfano Bentonite	2350	2350
Chacra	2784	3449	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	2784	2784
Mesa Verde	3449	3546	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	3449	3449
Menefee	3546	4245	Med-dark gry, fine gr ss, carb sh & coal	Menefee	3546	3546
Point Lookout	4245	4664	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4245	4245
Mancos	4664	5358	Dark gry carb sh.	Mancos	4664	4664
Gallup	5358	6186	Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh.	Gallup	5358	5358
Greenhorn	6186	6240	Highly calc gry sh w/ thin lmst.	Greenhorn	6186	6186
Graneros	6240	6269	Dk gry shale, fossil & carb w/ pyrite incl.	Graneros	6240	6240
Dakota	6269	6529	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6269	6269
			Interbed grn, brn & red waxy sh & fine to coard grn ss			

32. Additional remarks (include plugging procedure):

**This is a MV/DK well being commingled per DHC 3141AZ**

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)

Patsy Clugston

Title

Staff Regulatory Tech.

Signature

Date

7/12/2013

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.

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## WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.

SF-078135

1a. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other  
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resrv.

Other:

6. If Indian, Allottee or Tribe Name

NMNM-78394 C

7. Unit or CA Agreement Name and No.

HUERFANITO UNIT

2. Name of Operator

Burlington Resources Oil &amp; Gas Company

8. Lease Name and Well No.

HUERFANITO UNIT #87N

3. Address

PO Box 4289, Farmington, NM 87499

3a. Phone No. (include area code)

(505) 326-9700

9. API Well No.

30-045-34872 - 0002

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

At surface

UNIT L (NWSW) 1432' FSL &amp; 382' FWL,

At top prod. Interval reported below

SAME AS ABOVE

At total depth

SAME AS ABOVE

14. Date Spudded

3/25/2013

15. Date T.D. Reached

4/28/2013

16. Date Completed

☐ D & A ☒ Ready to Prod.

6/26/13 GRS

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

6159' GL / 6174' KB

18. Total Depth:

MD  
TVD

6529'

19. Plug Back T.D.:

MD  
TVD

6498'

20. Depth Bridge Plug Set:

MD  
TVD

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

GR/CCL/CBL

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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement top*	Amount Pulled
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8 3/4"	7" / J-55	23#	0	3710'	1647'	482 sx - Premium Lite	177 bbls	Surface	76 bbls
6 1/4"	4 1/2" / L-80	11.6#	0	6520'	n/a	304 sx - Premium Lite	108 bbls	3110'	n/a

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", 4.7#, J-55	6389'	n/a						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) PT LOOKOUT / LOWER MENEFFEE	4200'	4492'	1 SPF	.34"	25	open
B)						
C)						
C)						
D) total holes					25	

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

Depth Interval	Amount and Type of Material
4200' - 4492'	Acidized w/10 bbls 15% HCL; Frac'd w/36,625 gal Slickwater w/100,000# 20/40 Brady Sand & 1,263,000 scf N2

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
6/26/2013	7/9/2013	1hr.	→	trace	19 mcf/h	1 bwph			FLOWING
Choke Size	Tbg. Press. Flwg.	Csg. Press. SI	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
1/2"	SI - 537 psi	381 psi	→	5 bopd	444 mcfd	15 bwph			SHUT IN

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.	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)

ACCEPTED FOR RECORD

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FARMINGTON FIELD OFFICE

BY William Tambehou

## 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	

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