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Form 3160-4  
(August 2007)

UNITED STATES  
DEPARTMENT OF THE INTERIOR **Farmington Field Office**  
BUREAU OF LAND MANAGEMENT **Bureau of Land Management**

FORM 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-077451-A</b>			
b Type of Completion. <input 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>Burlington Resources Oil &amp; Gas Company</b>						7 Unit or CA Agreement Name and No <b>NMNM 73462</b>			
3 Address <b>PO Box 4289, Farmington, NM 87499</b>						8 Lease Name and Well No <b>Sandia Federal 1F</b>			
3a. Phone No (include area code) <b>(505) 326-9700</b>						9 API Well No. <b>30-045-35016-0002</b>			
4 Location of Well (Report location clearly and in accordance with Federal requirements)*  At surface <b>G (SWNE), 2,095' FNL &amp; 1,990' FEL</b>						10 Field and Pool or Exploratory <b>BASIN DAKOTA</b>			
At top prod. Interval reported below						11 Sec, T, R, M, on Block and Survey or Area <b>Sec. 29, T30N, R11W</b>			
At total depth						12 County or Parish <b>San Juan</b>		13 State <b>New Mexico</b>	
14 Date Spudded <b>12/28/2011</b>		15 Date T.D. Reached <b>1/15/2012</b>		16 Date Completed <b>3/22/2012</b> <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod		17 Elevations (DF, RKB, RT, GL)* <b>GL-6,757' / KB-6,772'</b>			
18 Total Depth. MD <b>6,743'</b> TVD		19 Plug Back T.D. MD <b>6,738'</b> TVD		20 Depth Bridge Plug Set. MD TVD					
21 Type Electric & Other Mechanical Logs Run (Submit copy of each)						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)			
GR/CCL/CBL									
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
12 1/4"	9 5/8", H-40	32.3#	0	231'	n/a	76 sx/Pre-mix	22 bbls	Surface	7 bbls
8 3/4"	7", J-55	20#	0	4,012'	n/a	488 sx/Prem. Lite	188 bbls	Surface	55 bbls
6 1/4"	4 1/2, L-80	11.6#	0	6,738'	n/a	224 sx/Prem. Lite	81 bbls	3,410	
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#, L-80	6,658'	n/a							
25 Producing Intervals					26. Perforation Record				
Formation		Top	Bottom	Perforated Interval		Size	No Holes	Perf. Status	
A) Basin Dakota									
B)		6,583'	6,630'	1SPF		.34" diam	14	Open	
C)		6,642'	6,713'	2SPF		.34" diam	34	Open	
D) Total Holes							48		
27. Acid, Fracture, Treatment, Cement Squeeze, etc									
Depth Interval		Amount and Type of Material							
Basin Dakota - 6,583' - 6,713'		Frac w/ 36,624 gal 85Q N2 slickfoam w/ 25,025# 20/40 Brady Sand. N2: 4,597,600scf.							
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
n/a	3/22/2012	1	→	0	38mcf/h	.87bw/h			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"	870psi	865psi	→	0	914mcf/d	21bw/d		SI	
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
			→						ACCEPTED FOR RECORD
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 page 2)

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FARMINGTON FIELD OFFICE  
BY *SW*

*RC*

## 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.)

## 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	753'	858'	White, cr-gr ss	Ojo Alamo	753'
Kirtland	858'	1793'	Gry sh interbedded w/tight, gry, fine-gr ss	Kirtland	858'
Fruitland	1793'	2127'	Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss	Fruitland	1793'
Pictured Cliffs	2127'	2306'	Bn-Gry, fine grn, tight ss	Pictured Cliffs	2127'
Lewis	2306'	2823'	Shale w/ siltstone stringers	Lewis	2306'
Huerfano Bentonite	2823'	2854'	White, waxy chalky bentonite	Huerfano Bentonite	2823'
Chacra	2854'	3646'	Gry fn grn silty, glauconitic sd stone w/ drk gry shale	Chacra	2854'
Mesa Verde	3646'	3849'	Light gry, med-fine gr ss, carb sh & coal	Mesa Verde	3646'
Menefee	3849'	4453'	Med-dark gry, fine gr ss, carb sh & coal	Menefee	3849'
Point Lookout	4453'	4830'	Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation	Point Lookout	4453'
Mancos	4830'	5718'	Dark gry carb sh	Mancos	4830'
Gallup	5718'	6455'	Lt gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg interbed sh	Gallup	5718'
Greenhorn	6455'	6509'	Highly calc gry sh w/ thin lmst	Greenhorn	6455'
Graneros	6509'	6581'	Dk gry shale, fossil & carb w/ pyrite incl	Graneros	6509'
Dakota	6581'	6743'	Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks	Dakota	6581'
Morrison			Interbed grn, brn & red waxy sh & fine to coard grn ss	Morrison	0

32. Additional remarks (include plugging procedure).

This is a Blanco Mesa Verde/Basin Dakota being commingled by DHC Order # 3341AZ.

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) DENISE JOURNEY Title REGULATORY TECHNICIAN

Signature *Denise Journey* Date 4/3/12

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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Neds CA

8 Lease Name and Well No

Sandia Federal 1F

9 API Well No

30-045-35016 -0002

10 Field and Pool or Exploratory

Blanco Mesa Verde

11 Sec, T, R, M., on Block and  
Survey or Area

Sec. 29, T30N, R11W

12 County or Parish

San Juan

13 State

New Mexico

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

GL-6,757' / KB-6,772'

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

Burlington Resources Oil &amp; Gas Company

3 Address

PO Box 4289, Farmington, NM 87499

3a Phone No. (include area code)

(505) 326-9700

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

At surface G(SWNE), 2,095' FNL &amp; 1,990' FEL

At top prod Interval reported below

At total depth

14 Date Spudded

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15 Date T.D. Reached

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16 Date Completed

3/22/2012

☐ D & A☒ Ready to Prod

18 Total Depth

MD

6,743'

19 Plug Back T.D

MD

6,743'

20 Depth Bridge Plug Set:

MD

TVD

TVD

TVD

21 Type Electric &amp; 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)

GR/CCL/CBL

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
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8 3/4"	7", J-55	20#	0	4,012'	n/a	488 sx/Prem. Lite	188 bbls	Surface	55 bbls
6 1/4"	4 1/2", L-80	11.6#	0	6,738'	n/a	224 sx/Prem. Lite	81 bbls	3,410'	

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#, L-80	6,658'	n/a						

25 Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No Holes	Perf Status
A) Point Lookout	4,455'	4,749'	ISPF	.34" diam	26	Open
B) Menefee/Climhouse	4,018'	4,370'	ISPF	.34" diam	25	Open
C)						
D) Total Holes					51	

26. Perforation Record

27 Acid, Fracture, Treatment, Cement Squeeze, etc

Depth Interval	Amount and Type of Material
Point Lookout -4,455' - 4,749'	Acidize w/ 10 bbls 15% HCL Acid. Frac w/ 37,338 gal 70Q N2 slickfoam w/ 100,759# 20/40 Brady Sand. N2: 1,237,100scf.
Menefee/Climhouse -4,018' - 4,370'	Frac w/ 19,824 gal 70Q N2 slickfoam w/ 49,676# 20/40 Brady Sand. N2: 786,500scf.

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
n/a	3/7/2012	1	→	0	11mcf/h	Trace			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"	870psi	865psi	→	0	266mcf/d	7bw/d		SI	

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 page 2)

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FARMINGTON FIELD OFFICE  
BY ba

APR 04 2012

ACCEPTED FOR RECORD

OIL CONS. DIV.  
DIST. 3

## 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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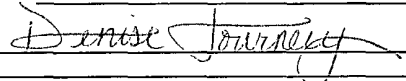
Name (please print)

DENISE JOURNEY

Title

REGULATORY TECHNICIAN

Signature



Date

4/3/12

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(Continued on page 2)

(Form 3160-4, page 2)