

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 28 2012

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

Bureau of Land Management

5. Lease Serial No. **SF-078138**1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other **Farmington Field Office**
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.,

Other:

2. Name of Operator

Burlington Resources Oil & 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

UNIT K (NE/SW), 1930' FSL & 2091' FVL

At top prod. Interval reported below

UNIT K (NW/SW), 1695' FSL & 1910' FVL

At total depth

UNIT K (NW/SW), 1695' FSL & 1910' FVL

14. Date Spudded

8/24/2012

15. Date T.D. Reached

9/9/2012

16. Date Completed

☐ D & A ☒ Ready to Prod.**11/09/2012 GRS**

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

5964 GL / 5979' KB

18. Total Depth:

MD**6950'**

19. Plug Back T.D.:

MD**6946'**

20. Depth Bridge Plug Set:

MD**TVD****6917'****TVD****6913'****TVD**

21. Type Electric & 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 |
|-----------|---------------|-------------|----------|-------------|----------------------|-----------------------------|-------------------|-------------|---------------|
| 12 1/4" | 9 5/8" / H-40 | 32.3# | 0 | 229' | n/a | 775x-Pre-mix | 22bbls | Surface | 7bbls |
| 8 3/4" | 7" / J-55 | 23# | 0 | 4341' | n/a | 6025x-Premium Lite | 218bbls | Surface | 49bbls |
| 6 1/4" | 4 1/2" / L-80 | 11.6# | 0 | 6948' | n/a | 2055x-Premium Lite | 746bbls | 3640' | n/a |

RCVD DEC 11 '12
OIL CONS. 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#, L-80 | 6856' | n/a | | | | | | |

25. Producing Intervals

| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|-----------|-------|--------|---------------------|------|-----------|--------------|
| Dakota | 6814' | 6930' | ISPF | .34" | 40 | open |
| A) | | | | | | |
| B) | | | | | | |
| C) | | | | | | |
| D) | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|----------------|--|
| 6814' - 6930' | Acidize w/ 10bbls of 15% HCL. Frac'd w/ 40,728gal 70% Slickwater N2 Foam w/ 40,046# of 20/40 Brady sand. Total N2: 1,951,400SCF. |
| | |
| | |

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 |
|---------------------|-------------------|--------------|-----------------|---------|-----------|------------|-----------------------|-------------|-------------------|
| 11/09/2012 GRS | 11/12/2012 | 1hr. | → | 0/boph | 14/mcf/h | trace/bwph | n/a | n/a | FLOWING |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| 1/2" | SI-667psi | SI-669psi | → | 0/bopd | 333/mcf/d | 4/ bwpd | n/a | | 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. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| SI | SI | | → | | | | | | |

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

ACCEPTED FOR RECORD

DEC 07 2012

FARMINGTON FIELD OFFICE
BY TL Solvers

NMOCDA

| 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): | 31. Formation (Log) Markers |
|---|-----------------------------|
| <p>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.</p> | |

| Formation | Top | Bottom | Descriptions, Contents, etc. | Name | Top |
|--------------------|-------|--------|--|--------------------|-------------|
| | | | | | Meas. Depth |
| Ojo Alamo | 952' | 1122' | White, cr-gr ss | Ojo Alamo | 952' |
| Kirtland | 1122' | 2003' | Gry sh interbedded w/tight, gry, fine-gr ss. | Kirtland | 1122' |
| Fruitland | 2003' | 2396' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 2003' |
| Pictured Cliffs | 2396' | 2588' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 2396' |
| Lewis | 2588' | 3160' | Shale w/ siltstone stringers | Lewis | 2588' |
| Huerfano Bentonite | 3160' | 3415' | White, waxy chalky bentonite | Huerfano Bentonite | 3160' |
| Chacra | 3415' | 3983' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 3415' |
| Mesa Verde | 3983' | 4198' | Light gry, med-fine gr ss, carb sh & coal | Mesa Verde | 3983' |
| Menefee | 4198' | 4724' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 4198' |
| Point Lookout | 4724' | 5160' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 4724' |
| Mancos | 5160' | 5982' | Dark gry carb sh. | Mancos | 5160' |
| Gallup | 5982' | 6701' | Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh. | Gallup | 5982' |
| Greenhorn | 6701' | 6755' | Highly calc gry sh w/ thin lmst. | Greenhorn | 6701' |
| Graneros | 6755' | 6814' | Dk gry shale, fossil & carb w/ pyrite incl. | Graneros | 6755' |
| Dakota | 6814' | | Lt to dark gry foss carb sl calc sl silty ss w/ pyrite incl thin sh bands cly Y shale breaks | Dakota | 6814' |
| Morrison | | | Interbed grn, brn & red waxy sh & fine to coard grn ss | Morrison | |

32. Additional remarks (include plugging procedure):

This is a Blanco Mesaverde & Basin Dakota commingle well under DHC3715AZ.

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) Arleen Kellywood Title Staff Regulatory Tech.
 Signature Arleen Kellywood Date 11/27/12

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.

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

NOV 28 2012

| | | | | | | | | | |
|---|-------------------|---|---------------------|--|----------------------|-----------------------------|-----------------------|-------------------|-------------------|
| 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. SF-078138 | | | | | | | |
| b. Type of Completion: <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 | | | | | | | |
| Farmington Field Office Bureau of Land Management | | 7. Unit or CA Agreement Name and No. MM-83982 | | | | | | | |
| 2. Name of Operator Burlington Resources Oil & Gas Company | | 8. Lease Name and Well No. Hartman 23 1P | | | | | | | |
| 3. Address PO Box 4289, Farmington, NM 87499 | | 9. API Well No. 30-045-35323 - 0662 | | | | | | | |
| 3a. Phone No. (include area code) (505) 326-9700 | | 10. Field and Pool or Exploratory Blanco Mesaverde | | | | | | | |
| 4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface UNIT K (NE/SW), 1930' FSL & 2091' FWL At top prod. Interval reported below UNIT K (NW/SW), 1695' FSL & 1910' FWL At total depth UNIT K (NW/SW), 1695' FSL & 1910' FWL | | 11. Sec., T., R., M., on Block and Survey SURFACE: SEC: 23, T30N, R11W BOTTOM: SEC: 23, T30N, R11W | | | | | | | |
| 14. Date Spudded 8/24/2012 | | 15. Date T.D. Reached 9/9/2012 | | | | | | | |
| 16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/08/2012 GRS | | 17. Elevations (DF, RKB, RT, GL)* 5964' GL / 5979' KB | | | | | | | |
| 18. Total Depth: MD 6950' TVD 6917' | | 19. Plug Back T.D.: MD 6946' TVD 6913' | | | | | | | |
| 20. Depth Bridge Plug Set: MD TVD | | 21. Type Electric & Other Mechanical Logs Run (Submit copy of each) GR/CCL/CBL | | | | | | | |
| 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 type="checkbox"/> No <input checked="" 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 Sk. & Type of Cement | Slurry Vol. (BBL) | Cement top* | Amount Pulled |
| 12 1/4" | 9 5/8" / H-40 | 32.3# | 0 | 229' | n/a | 77sx-Pre-mix | 22bbls | Surface | 7bbls |
| 8 3/4" | 7" / J-55 | 23# | 0 | 4341' | n/a | 602sx-Premium Lite | 218bbls | Surface | 49bbls |
| 6 1/4" | 4 1/2" / L-80 | 11.6# | 0 | 6948' | n/a | 205sx-Premium Lite | 74bbls | 3640' | n/a |
| 24. Tubing Record | | | | PCUD DEC 11 '12 OIL CONS. DIV. DIST. 3 | | | | | |
| 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 | 6856' | n/a | | | | | | | |
| 25. Producing Intervals | | | | 26. Perforation Record | | | | | |
| Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status | | | |
| A) Point Lookout | 4730' | 5150' | ISPF | .34" | 25 | open | | | |
| B) Menefee | 4402' | 4684' | ISPF | .34" | 24 | | | | |
| C) Total | | | | | 49 | | | | |
| D) | | | | | | | | | |
| 27. Acid, Fracture, Treatment, Cement Squeeze, etc. | | | | | | | | | |
| Depth Interval | | Amount and Type of Material | | | | | | | |
| 4730' - 5150' | | Acidize w/ 10bbls of 15% HCL. Frac'd w/ 36,876gal 70% Slickwater N2 Foam w/ 101,851# of 20/40 Brady sand. Total N2: 1,305,000SCF. | | | | | | | |
| 4402' - 4684' | | Acidize w/ 10bbls of 15% HCL. Frac'd w/ 21,462gal 70% Slickwater w/ 48,355# of 20/40 Brady sand. Total N2: 997,000SCF. | | | | | | | |
| 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 |
| 11/08/2012 GRS | 11/12/2012 | 1hr. | 0/boph | 79/mcf/h | 1/bwph | n/a | n/a | | FLOWING |
| Choke Size | Tbg. Press. Flwg. | Csg. Press. | 24 Hr. Rate | Oil BBL | Gas MCF | Water BBL | Gas/Oil Ratio | Well Status | |
| 1/2" | SI-667psi | SI-669psi | 0/bopd | 1889/mcf/d | 20/bwpd | n/a | | | 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. | 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)

ACCEPTED FOR RECORD

NMCCD
PV

DEC 07 2012

FARMINGTON FIELD OFFICE
BY TL Samers

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 | 952' | 1122' | White, cr-gr ss | Ojo Alamo | 952' |
| Kirtland | 1122' | 2003' | Gry sh interbedded w/light, gry, fine-gr ss. | Kirtland | 1122' |
| Fruitland | 2003' | 2396' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 2003' |
| Pictured Cliffs | 2396' | 2588' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 2396' |
| Lewis | 2588' | 3160' | Shale w/ siltstone stringers | Lewis | 2588' |
| Huerfanito Bentonite | 3160' | 3415' | White, waxy chalky bentonite | Huerfanito Bentonite | 3160' |
| Chacra | 3415' | 3983' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 3415' |
| Mesa Verde | 3983' | 4198' | Light gry, med-fine gr ss, carb sh & coal | Mesa Verde | 3983' |
| Menefee | 4198' | 4724' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 4198' |
| Point Lookout | 4724' | 5160' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 4724' |
| Mancos | 5160' | 5982' | Dark gry carb sh. | Mancos | 5160' |
| Gallup | 5982' | 6701' | Lt. gry to brn calc carb micac glauc silts & very fine gry gry ss w/ irreg. interbed sh. | Gallup | 5982' |
| Greenhorn | 6701' | 6755' | Highly calc gry sh w/ thin lmst. | Greenhorn | 6701' |
| Graneros | 6755' | 6814' | Dk gry shale, fossil & carb w/ pyrite incl. | Graneros | 6755' |
| Dakota | 6814' | | Lt to dark gry foss carb sl calc slitty ss w/ pyrite incl thin sh bands cly Y shale breaks | Dakota | 6814' |
| Morrison | | | Interbed grn, brn & red waxy sh & fine to coard grn ss | Morrison | |

32. Additional remarks (include plugging procedure):

This is a Blanco Mesaverde & Basin Dakota commingle well under DHC3715AZ.

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)

Arleen Kellywood

Title

Staff Regulatory Tech.

Signature

Arleen Kellywood

Date

11/27/12

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.