Form 3160-4
(August 2007)

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Farmington Field Office
Bureau of Land Management

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5a. Lease Serial No.: SF-079658, SF-080456, NM-0433

1a. Type of Well: [ ] Oil Well [X] Gas Well [ ] Dry [ ] Other
b. Type of Completion: [X] New Well [ ] Work Over [ ] Deepen [ ] Plug Back [ ] Diff. Resvr.,
Other:

6. If Indian, Allottee or Tribe Name:

7. Unit or CA Agreement Name and No.: HUERFANO UNIT

2. Name of Operator: **Burlington Resources Oil & Gas Company**

8. Lease Name and Well No.: **Huerfano Unit HZMC 1H**

3. Address: **PO Box 4289, Farmington, NM 87499**

3a. Phone No. *(include area code)*: **(505) 326-9700**

9. API Well No.: **30-045-35370 – 0051**

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

At surface: **UNIT M (SW/SW), 645' FSL & 615' FWL**

At top prod. Interval reported below: **UNIT L (NW/SW), 1411' FSL & 517' FWL**

At total depth: **UNIT L (NW/SW), 1411' FSL & 517' FWL**

10. Field and Pool or Exploratory: **Angel Peak Gallup**

11. Sec., T., R., M., on Block and Survey: **SURFACE: SEC: 9, T26N, R10W**
**BOTTOM: SEC: 10, T26N, R10W**

12. County or Parish: **San Juan**

13. State: **New Mexico**

14. Date Spudded: **10/16/2012**

15. Date T.D. Reached: **12/2/2012**

16. Date Completed: [ ] D & A [X] Ready to Prod. **3/27/2013**

17. Elevations *(DF, RKB, RT, GL)**: **6669' GL / 6684' KB**

18. Total Depth: MD **10958'** TVD **6016'**

19. Plug Back T.D.: MD **10956'** TVD **6016'**

20. Depth Bridge Plug Set: MD TVD

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

22. Was well cored? [X] No [ ] Yes (Submit analysis)
Was DST run? [X] No [ ] Yes (Submit report)
Directional Survey? [ ] No [X] 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" / J-55 | 36# | 0 | 867' | n/a | 436sx-Type I-II | 97bbls | Surface | 17bbls |
| 8 3/4" | 7" / L-80 | 26# | 0 | 5225' | n/a | 740sx-Premuim Lite | 267bbls | Surface | 73bbls |
| 6 1/4" | 4 1/2" / P-110 | 11.6# | 0 | 5147' | n/a | n/a | n/a | n/a | n/a |
| 6 1/4" | 4 1/2" / P-110 | 11.6# | 5146' | 10948' | n/a | n/a | n/a | n/a | n/a |

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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#, J-55 | 6116' | n/a | | | | | | |

25. Producing Intervals / 26. Perforation Record

| | Formation | Top | Bottom | Perforated Interval | Size | No. Holes | Perf. Status |
|---|---|---|---|---|---|---|---|
| A) | Angel Peak Gallup | 6606' | 10812' | see attachment | 3.84' | 15 | open |
| B) | | | | | | | |
| C) | | | | | | | |
| D) | | | | | | | |

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

| Depth Interval | Amount and Type of Material |
|---|---|
| 6606' - 10812' | see attachment |

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 | n/a | 1hr. | → | 1/boph | 20/mcf/h | 2/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-120-psi | SI-480psi | → | 12/bopd | 475/mcf/d | 42/ 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. 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)

ACCEPTED FOR RECORD

APR 08 2013

FARMINGTON FIELD OFFICE
BY William Tambekou

NMOCD

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 | 1365' | 1431' | White, cr-gr ss | Ojo Alamo | 1365' |
| Kirltand | 1431' | 1990' | Gry sh interbedded w/tight, gry, fine-gr ss. | Kirltand | 1431' |
| Fruitland | 1990' | 1998' | Dk gry-gry carb sh, coal, grn silts, light-med gry, tight, fine gr ss. | Fruitland | 1990' |
| Pictured Cliffs | 1998' | 2367' | Bn-Gry, fine grn, tight ss. | Pictured Cliffs | 1998' |
| Lewis | 2367' | 2590' | Shale w/ siltstone stingers | Lewis | 2367' |
| Huerfanito Bentonite | 2590' | 3081' | White, waxy chalky bentonite | Huerfanito Bentonite | 2590' |
| Chacra | 3081' | 3767' | Gry fn grn silty, glauconitic sd stone w/ drk gry shale | Chacra | 3081' |
| Mesa Verde | 3767' | 3808' | Light gry, med-fine gr ss, carb sh & coal | Mesa Verde | 3767' |
| Menefee | 3808' | 4578' | Med-dark gry, fine gr ss, carb sh & coal | Menefee | 3808' |
| Point Lookout | 4578' | 5010' | Med-light gry, very fine gr ss w/ frequent sh breaks in lower part of formation | Point Lookout | 4578' |
| Mancos | 5010' | | Dark gry carb sh. | Mancos | 5010' |

32. Additional remarks (include plugging procedure):

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

- [X] 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 White Title Staff Regulatory Tech.

Signature Arleen White Date 4/5/13

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.

(Continued on page 3)

**HUERFANO UNIT HZMC 1H**
**30-045-35370**
**Burlington Resources**
**Angel Peak Gallup**

**26) Perforated Intervals**

Each frac sleeve is 3.84' in length @ 10812', 10584', 10351', 10041', 9725', 9409', 9102', 8833', 8518', 8205', 7888', 7575', 7308', 6914' & 6606'. Frac's start at 10812' and move uphole toward liner. 15 fracs total.

**27) Frac Detail**

Frac'd 1st Mancos w/ 61,236 gal 25# 70% X-Link N2 Foam w/ 94,760# 20/40 Brady Sand. Total N2: 2,239,000 SCF.
Frac'd 2nd Mancos w/ 29,022 gal 25# 70% X-Link N2 Foam w/ 108,220# 20/40 Brady Sand. Total N2: 1,395,600 SCF.
Frac'd 3rd Mancos w/ 27,090 gal 25# 70% X-Link N2 Foam w/ 95,360# 20/40 Brady Sand. Total N2: 1,241,700 SCF.
Frac'd 4th Mancos w/ 29,964 gal 25# 70% X-Link N2 Foam w/ 106,480 20/40 Brady Sand. Total N2: 1,249,100 SCF.
Frac'd 5th Mancos w/ 38,220 gal 25# 70% X-Link N2 Foam w/ 144,720# 20/40 Brady Sand. Total N2: 2,038,700 SCF.
Frac'd 6th Mancos w/ 45,528 gal 25# 70% X-Link N2 Foam w/ 120,100# 20/40 Brady Sand. Total N2: 2,082,000 SCF.
Frac'd 7th Mancos w/ 36,582 gal 25# 70% X-Link N2 Foam w/ 144,340# 20/40 Brady Sand. Total N2: 2,011,300 SCF.
Frac'd 8th Mancos w/ 34,314 gal 25# 70% X-Link N2 Foam w/ 120,078# 20/40 Brady Sand. Total N2: 1,814,900 SCF.
Frac'd 9th Mancos w/ 37,884 gal 25# 70% X-Link N2 Foam w/ 170,958# 20/40 Brady Sand. Total N2: 1,943,400 SCF.
Frac'd 10th Mancos w/ 38,892 gal 25# 70% X-Link N2 Foam w/ 164,280# 20/40 Brady Sand. Total N2: 2,032,700 SCF.
Frac'd 11th Mancos w/ 40,152 gal 25# 70% X-Link N2 Foam w/ 210,200# 20/40 Brady Sand. Total N2: 2,203,200 SCF.
Frac'd 12th Mancos w/ 51,114 gal 25# 70% X-Link N2 Foam w/ 180,135# 20/40 Brady Sand. Total N2:2,526,500 SCF.
Frac'd 13th Mancos w/ 59,514 gal 25# 70% X-Link N2 Foam w/ 172,875# 20/40 Brady Sand. Total N2: 2,825,900 SCF.
Frac'd 14th Mancos w/ 51,954 gal 25# 70% X-Link N2 Foam w/ 202,001# 20/40 Brady Sand. Total N2: 2,977,100 SCF.
Frac'd 15th Mancos w/ 47,838 gal 25# 70% X-Link N2 Foam w/ 177,630# 20/40 Brady Sand. Total N2: 2,932,600 SCF.

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