

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

Sundry Notices and Reports on Wells

99 MAR 10 PM 1:05

1. Type of Well  
GAS

070 FARMINGTON, NM

5. Lease Number  
SF-078716  
6. If Indian, All. o:  
Tribe Name  
7. Unit Agreement Name  
8. Well Name & Number:  
Hubbell #5  
9. API Well No.  
30-045-08233  
10. Field and Pool  
Blanco MV/Basin DK  
11. County and State  
San Juan Co, NM

2. Name of Operator

BURLINGTON  
RESOURCES

OIL &amp; GAS COMPANY

3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

4. Location of Well, Footage, Sec., T, R, M

1190' FSL, 1470' FWL, Sec.17, T-29-N, R-10-W, NMPM

## 12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

## Type of Submission

## Type of Action

<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input type="checkbox"/> Subsequent Report	<input checked="" type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other - Commingle	

## 13. Describe Proposed or Completed Operations

It is intended to recomplete the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The Mesaverde will then be commingled with the existing Dakota formation. A down-hole commingle application will be filed.

## 14. I hereby certify that the foregoing is true and correct.

Signed [Signature] (PMPOps) Title Regulatory Administrator Date 3/4/99

(This space for Federal or State Office use)  
APPROVED BY /s/ Duane W. Spencer

Title

Team Lead, Petroleum Management

Date

MAR 16 1999

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

NMOC

District I  
PO Box 1980, Hobbs, NM 88241-1980

District II  
PO Drawer DD, Artesia, NM 88211-0719

District III  
1000 Rio Brazos Rd., Aztec, NM 87410

District IV  
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico  
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION  
PO Box 2088  
Santa Fe, NM 87504-2088

Form C  
Revised February 21,  
Instructions on  
Submit to Appropriate District Office  
State Lease - 4 C  
Fee Lease - 3 C

99 MAR 10 PM 1:05 ☐ AMENDED REP

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-045-08233	72319/71599	Blanco Mesaverde/Basin Dakota
Property Code	Property Name	Well Number
7133	HUBBELL	5
GRID No.	Operator Name	Elevation
14538	BURLINGTON RESOURCES OIL & GAS COMPANY	5754'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	17	29N	10W		1190	SOUTH	1470	WEST	SAN J

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
MV-W/316.19 DK-W/316.19			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>*NOT RESURVEYED* PREPARED FROM A PLAT BY JAMES P. LEESE DATED OCTOBER 27, 1960</p> <p>1470'</p> <p>1190'</p> <p>17</p>	<p>17 OPERATOR CERTIFICATE</p> <p>I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Bradfield</i> Signature</p> <p>Peggy Bradfield Printed Name</p> <p>Regulatory Administrator Title</p> <p>3-8-99 Date</p>
	<p>18 SURVEYOR CERTIFICATE</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>MARCH 5, 1999 Date of Survey</p> <p><i>Neale C. Edwards</i> Signature and Seal of Professional Surveyor</p> <p>NEALE C. EDWARDS NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 6857</p> <p>Certificate Number 6857</p>

OK

HUBBELL #5 MV  
Workover Procedure  
N 17 29 10  
San Juan County, N.M.  
Lat-Long: 36-43.31' - 107-54.67'

**PROJECT SUMMARY:** This is a Mesaverde recompletion in a 1960 vintage Dakota well which will be commingled with the existing Dakota.

1. Comply to all NMOCD, BLM, and BROG rules and regulations. MOL and RU completion rig. NU BOP w/flow tee and stripping head. NU blooie line and 2-7/8" relief line.
2. Set blanking plug in S.N. of 2-3/8" tbg @ 6591' and test to 3000 psi. TOH w/2-3/8" tbg.
3. MI Wireline. Set 5-1/2" drillable BP @ 4700'. Load hole w/1% KCL. Run CBL from 4700' to 3500 and an advanced integrated data processed GSL neutron log 4500'-3500' and correlate to attached open hole log. Pressure csg to 800 psi, if necessary to insure good bonding. Pressure test csg to 800 psi. **Hot Shot logs to Mike Pippin to pick possible sq holes and MV perfs.** TIH w/5-1/2" pkr on 2-3/8" tbg and set @ 4650'. Pressure test BP @ 4700' to 4300 psi.

**CASING SQUEEZES:**

4. The sq job design will be made after the CBL is run by the Drilling Supr., the Production Engr., and John Baker. Squeeze 5-1/2" csg as required to give 50'-100' of good cmt below 4700' (base Point Lookout), good cmt between frac stages @ 4300'-4400', and 100' of good cmt above 4010' (wet Cliffhouse). Drillout cmt re-run CBL and resq as necessary.

**POINT LOOKOUT:**

5. Spot 200 gal 15% HCL acid across Point Lookout (4600'-4400'). TOH.  
All acid on this well to contain the following additives per 1000 gal:  
2 gal CI-22 corrosion inhibitor  
5 gal Ferrotrol-300L iron control  
1 gal Flo-back 20 Surfactant  
0.5 gal Clay Master-5C clay control
5. Using new GSL log perf Point Lookout w/1 spf w/ about 20 holes from 4400' to 4600'. Perf w/select fire HSC gun using HSC-3125-302T 10 gr Owen jets which should give a 0.29" hole and 16.64" of penetration in concrete.
6. Fill 6 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Five tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 1704 bbls.
7. TIH w/5-1/2" pkr on 3-1/2" 9.3# N-80 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 4200'. (Run 2 jts 2-7/8" N-80 tbg above pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Point Lookout perfs w/1500 gal 15% HCL acid and 150% excess RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #5. Max. pressure is 4300 psi. Lower pkr to 4620' to knock off perf balls. Reset pkr 50' above top Point Lookout perf @ about 4350'. Prepare to frac.

8. Pressure annulus to 500 psi and monitor during frac job. Frac Point Lookout w/70,000 gals. of 20# gel and 120,000# 20/40 Arizona sand. Pump at 40 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 6000 psi and estimated treating pressure is 4190 psi. Frac string friction @ 40 BPM is 1740 psi. Treat per the following schedule:

<u>Stage</u>	<u>Water (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	15,000	---
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	20,000	60,000
Flush	(1,590)	0
Totals	70,000	120,000#

If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing and slow rate during flush. Frac with the following additives per 1000 gal frac fluid.

- \* 20# J-48 (Guar Gel mix in full tank - 16,000 gal)
- \* 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- \* 1.0# gvw-3 (Enzyme Breaker mix on fly)
- \* 1.0# B-5 (Breaker mix on fly)
- \* 0.38# - Fracide 20 (Bactericide in full tank)

9. Shut well in for 4 hrs to let gel break. TOH w/3-1/2" tbg and pkr. Run guage ring to insure a 5-1/2" top drillable BP can be set between frac stages @ 4375'. TOH.

#### **MENEFEE:**

10. TIH w/5-1/2" top drillable BP, on-off tool, and 5-1/2" pkr. Set 5-1/2" top drillable BP @ 4375'. PU and set pkr @ 4350' and pressure test BP @ 4375' to 4300 psi. Spot 340 gal 15% HCL acid across Menefee perms at about 4010'-4350'. Use same acid additives as in step #5. ~~TOH~~
11. Using GSL log, perf Menefee w/about 20 holes @ 1 spf @ about 4010'-4350'. Perf w/select fire HSC gun using HSC-3125-302T 10 gr Owen jets which should give a 0.29" hole and 16.64" of penetration in concrete.
12. Fill 6 - 400 bbl. frac tanks with 1% KCL water. If necessary, filter all water to 25 microns. Five tanks are for gel and one tank for breakdown water. Usable gel water required for frac is 1701 bbls.
13. TIH w/5-1/2" pkr on 3-1/2" 9.3# N-80 w/shaved collars (4.25" O.D. 2.992" I.D.) rental frac string & set @ 3800'. (Run 2 jts 2-7/8" N-80 tbg above pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Menefee perms w/1500 gal 15% HCL acid and 150% excess RCN 7/8" 1.3 sp gr perf balls. Use same acid additives as in step #5. Max. pressure is 4300 psi. Lower pkr to 4360' to knock off perf balls. Reset pkr 50' above top Menefee perf @ about 3960' and prepare to frac.
14. Pressure annulus to 500 psi and monitor during frac job. Frac Menefee w/70,000 gals. of 20# gel and 120,000# 20/40 Arizona sand. Pump at 40 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 6000 psi and estimated treating pressure is 4110 psi. Frac string friction @ 40 BPM is 1584 psi. Treat per the following schedule:

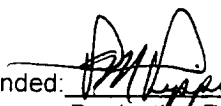
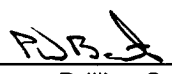

HUBBELL #5 MV – MESAVERDE RECOMPLETION AND COMMINGLE WITH DAKOTA

<u>Stage</u>	<u>Water (Gals.)</u>	<u>Sand Vol. (lbs.)</u>
Pad	15,000	---
1.0 ppg	10,000	10,000
2.0 ppg	25,000	50,000
3.0 ppg	20,000	60,000
Flush	<u>(1,446)</u>	<u>0</u>
Totals	70,000	120,000#

If well is on vacuum near end of frac job, cut flush as necessary to avoid overflushing and slow rate during flush. Frac with the following additives per 1000 gal frac fluid.

- \* 20# J-48 (Guar Gel mix in full tank - 16,000 gal)
- \* 1.0 gal. Aqua Flow (Non-ionic Surfactant mix in full tank)
- \* 1.0# gvw-3 (Enzyme Breaker mix on fly)
- \* 1.0# B-5 (Breaker mix on fly)
- \* 0.38# - Fracide 20 (Bactericide in full tank)

15. Shut well in for 4 hrs to let gel break.
16. Open well through choke manifold and monitor flow. Flow @ 20 bbl/hr. or less, if sand is observed. **Take pitot gauges when possible.** TOH w/frac string and pkr.
17. TIH w/4-3/4" bit on 2-3/8" tbg and C.O. Menefee to drillable BP @ 4375' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, drill BP @ 4375' w/air/mist and clean out Point Lookout to drillable BP @ 4700'.
18. **Take pitot gauges when possible.** When well is sufficiently clean, drill BP @ 4700' and clean out Dakota to PBTD @ 6696'.
19. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4800'-3800 and perf eff log across all perf intervals from 6646'-3800'.
20. TIH and rabbit 2-3/8" 4.7# J-55 tbg w/standard seating nipple one joint off bottom and again cleanout to 6696'. When wellbore is sufficiently clean, land tbg @ 6550 KB. **Take final water and gas rates.**
21. ND BOP and NU wellhead and tree. Rig down and release rig. Complete well as commingled Mesaverde – Dakota.

Recommended:  2/22/99 Approve:  2/23/99  
 Production Engineer Drilling Superintendent  
 Approve:  2/23/99  
 Team Leader

VENDORS:

Wireline	Blue Jet	325-5584
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133
Pkrs and Ret BP	Schlum.	325-5006

PMP

# HUBBELL #5 MV-DK

UNIT N SECTION 17 T29N R10W  
SAN JUAN COUNTY, NEW MEXICO

