

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Revised  
11/97

## Sundry Notices and Reports on Wells

97 DEC 15 PM 2:08

1. Type of Well  
GAS

070 FARMINGTON, NM

5. Lease Number  
NM-03561

6. If Indian, All. or  
Tribe Name

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; GAS COMPANY

7. Unit Agreement Name

3. Address & Phone No. of Operator

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

8. Well Name & Number  
Grenier B #3

9. API Well No.  
30-045-08695

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

1225' FSL, 2070' FWL, Sec. 5, T-29-N, R-10-W, NMPM

10. Field and Pool  
Blanco MV/Basin DK

11. County and State  
San Juan Co, NM

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

## Type of Submission

## Type of Action

☒ Notice of Intent☐ Abandonment☐ Change of Plans☐ Subsequent Report☒ Recompletion☐ New Construction☐ Final Abandonment☐ Plugging Back☐ Non-Routine Fracturing☐ Casing Repair☐ Water Shut off☐ Altering Casing☐ Conversion to Injection☒ Other - Commingle

## 13. Describe Proposed or Completed Operations

It is intended to add the Mesaverde formation to the subject well according to the attached procedure and wellbore diagram. The well will then be down-hole commingled. A down-hole commingle order will be applied for.

RECEIVED  
DEC 19 1997  
OIL CON. DIV.  
DIST. 3

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

Signed Deane W. Spencer (PMPOps) Title Regulatory Administrator Date 12/11/97

(This space for Federal or State Office use)

APPROVED BY /s/ Deane W. Spencer Title \_\_\_\_\_

Date DEC 17 1997

CONDITION OF APPROVAL, if any:

HELD C-104 FOR N26  
(S)

NMOC

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

District II  
PO Drawer 00, 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

Form C-  
Revised February 21, 1981  
Instructions on file  
Submit to Appropriate District Of  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

07 DEC 15 PM 2:08

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-08695		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 18532	Property Name GRENIER B		Well Number 3
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 5775'

10 Surface Location

UL or lot no. K	Section 5	Township 29N	Range 10W	Lot Idn	Feet from the 1225	North/South line SOUTH	Feet from the 2070	East/West line WEST	County SAN JUAN
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11 Bottom Hole Location If Different From Surface

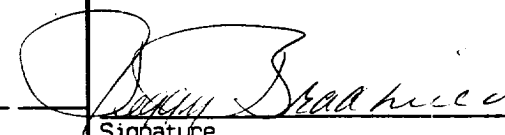
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
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12 Dedicated Acres MV-S/294.52 DK-S/294.52	13 Joint or Infill	14 Consolidation Code	15 Order No.
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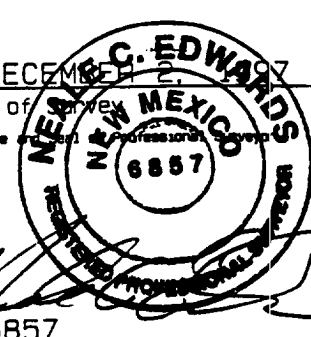
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

16  
\*NOT RESURVEYED.  
PREPARED FROM A PLAT  
BY ERNEST V. ECHOHAWK  
DATED 4-17-69.

17 OPERATOR CERTIFICATION  
I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

  
Signature  
Peggy Bradfield  
Printed Name  
Regulatory Administrator  
Title  
12-11-97  
Date

18 SURVEYOR CERTIFICATION  
I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

DECEMBER 2, 1997  
Date of Survey  
Signature of Surveyor  
  
6857  
Certificate Number

GRENIER B #3 MV-DK  
Recompletion Procedure  
K 5 29 10  
San Juan County, N.M.  
Lat-Long: 36.45.13" - 107-54.64"

**PROJECT SUMMARY:** Open the Mesaverde in this existing Dakota well and commingle.

1. Comply to all NMOCD, BLM, and BRCOG rules and regulations. MOL and RU completion rig. NU 7-1/16" 3000 psi BOP w/flow tee and stripping head. Test operation of rams. NU bleed line and 2-7/8" relief line.
2. Set blanking plug in S.N. @ 6654' in 2-3/8" tbg and pressure test tbg to 2000 psi. TOH w/2-3/8" tbg. Run 4-1/2" csg scraper on 2-3/8" tbg to 4800". TOH. Run 4-1/2" retrievable BP on 2-3/8" tbg and set @ 4750" and top w/1 sx sand.
3. W/2-3/8" tbg @ 4740', load hole w/1% KCL water. TOH.
4. Run CBL from 4740' to find TOC above DV tool @ 4760' and an advanced integrated data processed GSL neutron log 4740'-3700' and correlate to attached open hole log. If necessary, pressure csg to 1000 psi for CBL log. **Hot-shot** logs to Mike Pippin (326-9848) to determine location of MV perms. Pressure test 4-1/2" csg to 1000 psi.

**POINT LOOKOUT:**

5. TIH w/2-3/8" tbg open ended and spct 200 gal 15% HCL acid across Point Lookout perms @ about ~4720'-4460'. 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
6. Using GSL log, perf Point Lookout w/ about 20 holes @ 1 spf @ about 4460' to 4720'. 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.
7. 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 1453 bbls.
8. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string and set @ 4740' and pressure test ret BP @ 4750' to 3000 psi, then reset pkr @ 4200'. (Run 2 jts 2-3/8" N-80 on top of pkr). W/ 500 psi on annulus, breakdown and attempt to balloff Point Lookout 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 4740' to knock off perf balls. Reset pkr @ 4400'.
9. Pressure annulus to 500 psi and monitor during frac job. Frac Point Lookout w/60,000 gals. of 30# gel and 90,000# 20/40 Arizona sand. Pump at 40 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5500 psi and estimated treating pressure is 4200 psi. Treat per the following schedule:

GRENIER B #3 MV-DK - OPEN AND FRAC M / AND COMMINGLE W/EXISTING DK

<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	10,000	30,000
Flush	<u>(1,000)</u>	<u>0</u>
Totals	60,000	90,000#

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.

* 30# 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)

10. Shut well in for 4 hrs to let gel break. TOH w/2-7/8" tbg and pkr. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. Point Lookout w/air/ mist to insure a ret BP can be set @ 4440'.

**MENEFEE:**

11. Set ret BP @ 4440' on wireline and top w/1 sx sand. TIH w/4-1/2" pkr on 2-3/8" tbg and set @ 4430'. Pressure test BP @ 4440' to 3000 psi. Spot 200 gal 15% HCL acid across Menefee perms at about ~4400'~4130'. Use same acid additives as in step #5.
12. Using GSL log, perf Menefee w/about 20 holes @ 1 spf. 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.
13. Fill 6 - 400 bbl. frac tanks with 1% KC - 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 1690 bbls.
14. TIH w/4-1/2" pkr on 2-7/8" 6.5# N-80 w/shaved collars (3.5" O.D. 2.441" I.D.) rental frac string and set pkr @ 3900'. (Run 2 jts 2-3/8" N-80 on top of 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 4420' to knock off perf balls. Reset pkr @ 4050' and prepare to frac.
15. Pressure annulus to 500 psi and monitor during frac job. Frac Menefee w/70,000 gals. of 30# gel and 120,000# 20/40 Arizona sand. Pump at 40 BPM. Sand to be tagged w/ 3 RA tracers. Max. pressure is 5500 psi and estimated treating pressure is 4200 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	<u>(935)</u>	<u>0</u>
Totals	70,000	120,000#

GRENIER B #3 MV-DK - OPEN AND FRAC MIV AND COMMINGLE W/EXISTING DK

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.

- |                      |  |
|----------------------|--|
| * 30# 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)               |

16. Shut well in for 4 hrs to let gel break.
17. 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/pkr.
18. TIH w/retrieving tool on 2-3/8" tbg and C.O. to ret BP @ 4440' w/air/mist. Monitor gas and water returns and **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4440'. TOH.
19. TIH w/retrieving tool on 2-3/8" tbg and C.O. (w/air/mist) to ret BP @ 4750'. **Take pitot gauges when possible.** When well is sufficiently clean, retrieve BP @ 4750' and TOH.
20. TIH w/3-7/8" bit on 2-3/8" tbg and C.O. to PBTD 6745' w/air/mist **NOTE: Do not drill BP @ 6745').** **Take pitot gauges when possible.**
21. When wellbore is sufficiently clean, TOH and run after frac gamma-ray log from 4800'-3700 and perf eff log across all perf intervals from 6745'-3700'.
22. TIH and rabbit 2-3/8" 4.7# J-55 tbg w/standard seating nipple one joint off bottom and again cleanout to 6745'. When wellbore is sufficiently clean, land tbg @ 6650 KB. **Take final water and gas rates.**
23. ND BOP and NU wellhead and tree. Rig down and release rig.

Recommended:   
Production Engineer

Approved:  11/12/17  
Drilling Superintendent

Approved:  11/16/17  
Team Leader

VENDORS:

Wireline:	Blue Jet	325-5584
Fracturing:	Howco	325-3575
RA Tag:	Pro-Technics	326-7133

PMP

**Pertinent Data Sheet - GRENIER B #3 MV-DK**

K 5 2 3 10

**Location:** 1225' FSL & 2070' FWL, Unit K Section 5 T29N, R10W, San Juan County, New Mexico

**Field:** Blanco Mesaverde  
Basin Dakota

**Elevation:** 5786' 3L  
??' KE

**TD:** 6830'

**PBTD:** 6745'

**Completion Date:** 3/12/62

**Spud Date:** 2/21/62

**Lease#:** Fed. NM-03561

**DK DP #:** 25662

**MV DP#:** 33901A-3

**GWI:** 100%

**NRI:** 83.07%

**Prop#:** 0020376A

**Initial Potential:**

DK: AOF=1655 MCF/D, SICP=1970 PSI

**Casing Record:**

<u>Hole Size</u>	<u>Csg Size</u>	<u>Wt. &amp; Grade</u>	<u>Depth Set</u>	<u>Cement</u>	<u>Cement (Top)</u>
e12-1/4"	8-5/8"	24# J-55	294'	225 sx	Cmt Circ
7-7/8"	4-1/2"	9.5&11.6#J-55	6830'	250 sx	5440'- Survey
		Stg Tool @	4760'	480 sx	2050'- Survey

**Tubing Record:**

2-3/8"	4.7# J-55	6686'	213 Jts
	"F" nipple @	6654'	

**Formation Tops:**

Ojo Alamo:	930'		
Kirtland Shale:	1050'	Cliffhouse	3754'
Fruitland:	1826	Point Lookout	4448'
Pictured Cliffs:	2166'	Gallup	5699'
		Dakota	6630'

**Logging Record:** Induction Log, GRN (DK), Csg Inspection Log, CBL

**Stimulation:** Perfed DK w/4 spf @ 6634'-60', 6690'-61'02', 6762'-86' & fraced w/45,000# sand in water.

**Workover History:** 12/16/71: Ran csg insp log. Ran CBL. Perf MV 4470'-85', 4495'-4505' w/2 spf & fraced w/60,000# sand in water. Only cleaned well for 24 hrs. Tested 1" stream water w/very little gas. Sq MV perfs w/200 sx cmt.

7/15/97: Tbg repair workover. Drill out CIBP @ 6713'. Tested DK "wet". Set CIBP @ 6745'. TIH w/tbg.

**Production History:** 1st delivered DK 7/26/62. DK cum = 723 MMCF & 7,074 BO. See attached DK production curve. Current DK production is 40 MCF/D.

**Pipeline:** Williams Field Service

# GRENIER B #3 MV-DK

UNIT K SECTION 5 T29N R10W  
SAN JUAN COUNTY, NEW MEXICO

