

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Sundry Notices and Reports on Wells

1. Type of Well

GAS

2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL & GAS COMPANY

3. Address & Phone No. of Operator

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

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

346' FSL, 1693' FWL, Sec. 5, T-27-N, R-4-W, NMPM

N

5. Lease Number

SF-080673

6. If Indian, All. or

Tribe Name

7. Unit Agreement Name

San Juan 27-4 Unit

8. Well Name & Number

San Juan 27-4 U #39

9. API Well No.

30-039-20145

10. Field and Pool

Blanco MV/Basin DK

11. County and State

Rio Arriba Co, NM

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

Type of Submission

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment

Type of Action

☐ Abandonment

☒ Recompletion

☐ Plugging Back

☐ Casing Repair

☐ Altering Casing

☒ Other - Commingle

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut off

☐ Conversion to Injection

13. Describe Proposed or Completed Operations

It is intended to add the Mesaverde formation to the existing Dakota formation in the subject well according to the attached procedure and wellbore diagram. The well will then be commingled. A down-hole commingle order will be obtained from the New Mexico Oil Conservation Division.

RECEIVED  
APR 11 1997

OIL CONSERVATION  
DIVISION

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

Signed [Signature] (LLL8) Title Regulatory Administrator Date 11/14/96

(This space for Federal or State Office use)

APPROVED BY TS/Duane W. Spencer

Title Team leader

Date APR - 9 1997

CONDITION OF APPROVAL, if any:

PK  
(E)

RECEIVED

District I  
PO Box 1980, Hobbs, NM 88241-1980  
District II  
PO Drawer DD, Artesia, NM 88211-0719  
District III  
1000 Kilo Henson 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-10  
Revised February 21, 199  
Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-039-20145		Pool Code 72319/71599		Pool Name Blanco Mesaverde/Basin Dakota	
Property Code 7452		Property Name San Juan 27-4 Unit			Well Number 39
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6815'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ida	Feet from the	North/South line	Feet from the	East/West line	County
N	5	27-N	4-W		846	South	1693	West	R.A.

11 Bottom Hole Location If Different From Surface

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

12 Dedicated Acres MV-W/319.59 OK-W/319.59	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

<div>Not resurveyed, prepared from a plat by Russell H McNeace dated 7-18-68.</div> <div>RECEIVED APR 11 1996 OIL CONSERVATION DIVISION</div> <div>1693'</div> <div>846'</div>				<b>17 OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. <div>Peggy Bradford Signature Peggy Bradford Printed Name Regulatory Administrator Title 10-23-96 Date</div>	
				<b>18 SURVEYOR CERTIFICATION</b> 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. 10/13/96 Date of Survey Signature of Surveyor NEALE C. EDWARDS 8857 8857 Certificate Number	

## **San Juan 27-4 Unit #39 Mesaverde Recompletion**

Unit N, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico  
Lat. 36-35-49, Long. 107-16-35

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Inspect location and install and/or test rig anchors. **This job will require 5 total frac tanks.** Comply with all BLM, NMOCD, Forestry, and MOI rules and regulations. **BE SAFE.**

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\*\*\*All vendors/service companies on location will be responsible for protection of the environment. Any questions call Lori Lantz at 599-4024.\*\*\*

1. MIRU. Hold Safety Meeting. Place fire and safety equipment in easily accessible locations. Obtain and record all wellhead pressures. NU relief line to flare pit.
2. Blow down tubing. If tubing will not blow down, kill well with 2% KCl water. ND WH, NU BOP. NU blooie line to flare pit.
3. TOOH with 251 jts (7889') of 2-3/8" 4.7# J-55 tubing. Visually inspect, tally, and stand back tubing. Note and record locations of scale, if any. Replace any bad joints.
4. PU 3-7/8" bit and 4-1/2" 11.6# casing scraper on 2-3/8" workstring. Rabbit and tally on TIH to PBTD of 8117'. TOOH and LD bit and scraper.
5. MIRU electric line unit. RIH and set CIBP at 6100' (use slow burn charge to set plug). Load hole w/ 2% KCl and pressure test casing and CIBP to 1000 psi.
6. Run GR-CBL-CCL from 6100' to 200' above top of cement with 1000 psi surface pressure. Run repeat section with 0 psi surface pressure. Top of good cement must be above 5319' to continue. Evaluate CBL and send copy to production and drilling.

### **Point Lookout / Lower Menefee Stimulation:**

7. RIH w/ 3-1/8" Select Fire Perforating gun loaded 2 spf w/ 10 or 12 gram charges (0.31" diameter holes) and perforate the following depths:

**5719' 5723' 5757' 5761' 5766' 5833' 5838' 5845' 5852' 5862'  
5868' 5875' 5885' 5891' 5921' 5935' 5941' 5970' 5978'  
(38 total holes)**

8. RD electric line unit. PU 4-1/2" packer on 2-7/8" N-80 buttress frac string. TIH and set packer at approximately 6000'. Load hole w/ 2% KCl and pressure test CIBP to 3800 psi (80% of internal yield of 4790 psi). Pull up and reset packer at approximately 5569'.

## San Juan 27-4 Unit #39

### Mesaverde Recompletion

Unit N, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico  
Lat. 36-35-49, Long. 107-16-35

9. RU stimulation company. **Hold safety meeting.** Pressure test surface treating lines to 4800 psi. **Maximum treating pressure is 3800 psi.** Pump 1500 gals of 15% HCl acid at 10-15 bpm. Drop a total of 57 7/8" diameter (1.3 sg) RCN ball sealers spaced evenly throughout the job. Record injection rates and pressures throughout the job. RD stimulation company.
10. Release packer. TIH w/ 4-1/2" packer on frac string and knock balls off perforations. Pull up and reset packer at approximately 5569'.
11. RU stimulation company. Pressure test surface treating lines to 9300 psi. **Maximum treating pressure for various rates is listed below.** Fracture stimulate the Point Lookout / Lower Menefee intervals w/ 113,000# 20/40 sand in 70Q Nitrogen foam (20# linear based foam) at approximately 20 bpm according to the attached procedure.

Rate	Max Pressure
20 bpm	8300 psi
10 bpm	5100 psi
0 bpm	3800 psi

12. RDMO stimulation company. Flow back well immediately using a dual choke manifold unless specified in fracture procedure. When pressures allow, release packer. TOOH w/ packer and 2-7/8" frac string.
13. RU electric line unit. RIH w/ 4-1/2" RBP and set at 5650'. Dump 2 sks sand on RBP.

#### Upper Menefee / Cliffhouse Stimulation:

14. RIH w/ 3-1/8" Select Fire Perforating gun loaded 2 spf w/ 10 or 12 gram (0.31" diameter holes) and perforate the following depths:

**5369' 5447' 5449' 5452' 5465' 5477' 5480' 5489' 5491' 5561'  
5565' 5575' 5580' 5584' 5588' 5605' 5607'  
(34 total holes)**

15. RD electric line unit. PU 4-1/2" packer on 2-7/8" N-80 buttress frac string. TIH and set packer at approximately 5625'. Load hole w/ 2% KCl and pressure test RBP to 3800 psi (80% of internal yield of 4790 psi). Pull up and reset packer at approximately 5219'.

## San Juan 27-4 Unit #39

### Mesaverde Recompletion

Unit N, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico  
Lat. 36-35-49, Long. 107-16-35

16. RU stimulation company. **Hold safety meeting.** Pressure test surface treating lines to 4800 psi. **Maximum treating pressure is 3800 psi.** Pump 1500 gals of 15% HCl acid at 10-15 bpm. Drop a total of 51 7/8" diameter (1.3 sg) RCN ball sealers spaced evenly throughout the job. Record injection rates and pressures throughout the job. RD stimulation company.
17. Release packer. TIH w/ 4-1/2" packer on frac string and knock balls off perforations. Pull up and reset packer at approximately 5219'.
18. RU stimulation company. Pressure test surface treating lines to 9000 psi. **Maximum treating pressure for various rates is listed below.** Fracture stimulate the Upper Menefee / Cliffhouse intervals w/ 66,000# 20/40 sand in 70Q Nitrogen foam (20# linear based foam) at approximately 20 bpm according to the attached procedure.

Rate	Max Pressure
20 bpm	8000 psi
10 bpm	5100 psi
0 bpm	3800 psi

19. RDMO stimulation company. Flow back well immediately using a dual choke manifold unless specified in fracture procedure. When pressures allow, release packer. TOOH and LD packer and 2-7/8" frac string.
20. TIH w/ 2-3/8" workstring and clean out to the RBP set at 5650' with air until sand and water production is minimal (run retrieving head on last clean out run). **Obtain flow gauge and record as Cliffhouse / Upper Menefee.** Latch onto RBP and TOOH.
21. PU mill on 2-3/8" tbg. TIH and clean out to CIBP set at 6100' with air until sand and water production is minimal. **Obtain flow gauge and record as Cliffhouse / Menefee / Point Lookout.** Mill up CIBP set at 6100', push to bottom, and clean out to PBTD of 8117'. TOOH and LD mill.
22. Rabbit and TIH with 2-3/8" 4.7# J-55 tubing with expendable check and seating nipple one joint off bottom and cleanout to PBTD of 8117' with air. Land tubing at approx 8100'. ND BOP. NU WH. Pump off check and obtain final flow gauge. **Record flow gauge as Mesaverde / Dakota.** Contact Production Operations for well tie-in. RDMO.

## **San Juan 27-4 Unit #39**

### **Mesaverde Recompletion**

Unit N, Section 5, T-27-N, R-4-W, Rio Arriba County, New Mexico

Lat. 36-35-49, Long. 107-16-35

Approved: \_\_\_\_\_  
Regional Team Leader

Approved: \_\_\_\_\_  
Drilling Superintendent

# **San Juan 27-4 Unit #39** **Unit N, Sec 5, T-27-N, R-4-W**

Location: 846' FSL, 1693' FWL  
 Rio Arriba County, NM

Latitude: 36-35-49  
Longitude: 107-16-35

Current Field: Basin Dakota  
Spud: 9/14/68  
Elev GL: 6815'  
TD: 8121'

Logs Run: I-EL, GDC, TS  
Completed: 10/ 7/68  
Elev KB:  
PBTD: 8117'

## **CASING RECORD:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
15"	10-3/4"	32.75#	H-40	227'	185 sks	Surf (circ)
9-7/8"	7-5/8"	26.4#	J-55	3907'	175 sks	2695' (TS)
6-3/4"	4-1/2"	10.5 & 11.6#	J-55	8121'	470 sks	3600' (TS)

## **LINER RECORD:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Cmt Vol</u>	<u>Cmt Top</u>
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## **TUBING RECORD:**

<u>Tubing Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Depth Set</u>	<u>Joints</u>	<u>Other</u>	<u>Depth</u>
2-3/8"	4.7#	J-55	7889'	251		
				Otis Type X SN 1 jt off		btm.

## **FORMATION TOPS:**

Ojo Alamo	—	Pictured Cliffs	3675'	Pt Lookout	5831'
Kirtland	—	Cliffhouse	5366'	Gallup	6963'
Fruitland	—	Menefee	—	Dakota	7980'

## **Completions:**

Dakota

Perfs: 7896-7906, 7979-89, 8006-16, 8054-64, 8074-84, 8090-8100 (20 spz)

Frac: 80,000# 40/60 sand and 80,860 gal water + balls.

SIWHP: 2547 psi      AOF: 3543 mcf/d

## **Cementing Information**

10-3/4" Casing cemented w/ 185 sks Class A, w/ 1/8 cu ft gilsonite /sk & 3% CaCl2.

7-5/8" Casing cemented w/ 125 sks Class C w/ 4% gel & 1/4 cu ft gilsonite /sk, followed by 50 sks Class C w/ 2% CaCl2.

4-1/2" Casing cemented w/ 320 sks Class A w/ 8% gel, 1/4 cu ft gilsonite & 0.4% R-5, followed by 150 sks Class A w/ 1# Tuff-plug /sk & 0.4 R-5.

## **Workover History:**

N/A

LLL:rjp 10/14/96

# SAN JUAN 27-4 UNIT #39

Unit N, Section 5, T-27-N, R-4-W

Lat. 36-35-49, Long. 107-16-35

## CURRENT WELLBORE SCHEMATIC

Cmt. Top  
@ Surf (circ)

Cmt. Top  
@ 2695' (TS)

Cmt. Top  
@ 3600' (TS)

10-3/4" 32.75# H-40  
Casing  
Set @ 227'  
Cmt w/ 185 sks

7-5/8" 26.4# J-55 Casing  
Set @ 3907'  
Cmt w/ 175 sks

2-3/8" 4.7# J-55 Tubing  
Set @ 7889'

Dakota Perfs  
7896' - 8100'  
(Selected Intervals)

4-1/2" 10.5# &  
11.6 J-55 Casing  
Set @ 8121'  
Cmt w/ 470 sks

TD @ 8121'  
PBTD @ 8117'