

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

820' FSL, 1500' FWL, Sec. 11, T-27-N, R-5-W, NMPM

N

5. Lease Number  
SF-079491A

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name

San Juan 27-5 Unit

8. Well Name & Number  
San Juan 27-5 U #105

9. API Well No.  
30-039-20031

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

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 -

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Mesaverde formation according to the attached procedure and wellbore diagram. The well will then be down-hole commingled. A down-hole commingling order will be applied for with the New Mexico Oil Conservation Division.

**RECEIVED**  
MAR - 7 1997

**OIL CON. DIV.**  
DIST. 3

OIL CON. DIV.

MAR 10 1997

MAR 10 1997

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

Signed [Signature] (JASPU) Title Regulatory Administrator Date 2/20/97

(This space for Federal or State Office use)

APPROVED BY \_\_\_\_\_ Title \_\_\_\_\_

Date MAR 03 1997

CONDITION OF APPROVAL, if any:

*Need OHC order*

*[Signature]*

**NMOCD**

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-102  
Revised February 21, 1994  
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 30-039-20031	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7454	Property Name San Juan 27-5 Unit	Well Number 105
GRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 7467'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Ids	Feet from the	North/South line	Feet from the	East/West line	County
N	11	27-N	5-W		820	South	1500	West	R.A.

11 Bottom Hole Location If Different From Surface

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

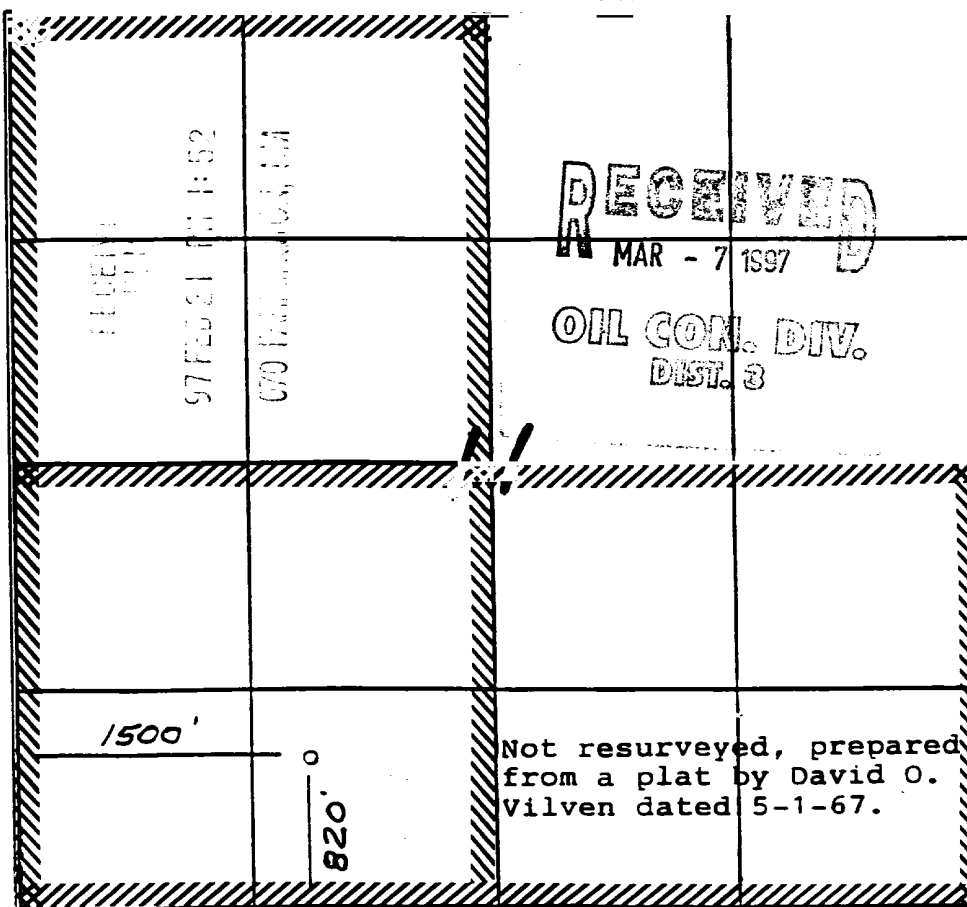
12 Dedicated Acres  
MV-W/320  
DK-S/320

13 Joint or Infill

14 Consolidation Code

15 Order No.

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



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  
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.

2/10/97

Date of Survey  
Signature and Seal of Professional Surveyor  
NEALE C. EDWARDS  
NEW MEXICO  
6867  
Professional Surveyor  
Certificate Number

# **BURLINGTON RESOURCES**

**San Juan 27-5 Unit #105**  
**Mesaverde R/C & Commingle w/ Dakota**  
**Unit N, Section 11, T27N, R5W**  
**LAT: 36° 34' 59" LONG: 107° 19' 51"**  
**Rio Arriba County, New Mexico**

## **Recompletion Procedure**

- 
- Comply with all BLM, NMOCD, & MOI rules & regulations.
  - **Always Hold Safety Meetings.** Place fire and safety equipment in strategic locations.
  - Use DRILL GAS if possible over AIR.
  - 400' (13 jts) of 2-3/8" workstring, 500' of 1-1/2" workstring and 2 joints of 3-1/2" fracstring
  - Six (6) 3" OD or smaller drill collars (if necessary).
  - 6 (potentially) additional joints of 2-3/8", 4.7#, J-55 production tubing (tubing to be lowered +/- 186')
  - 18 frac tanks to be spotted and filled with 2% KCl water (includes 1 rig tank)
  - Ensure CIBP's are T-Lok, if stacked plugs are run.
- 

***This well is part of the 1997 MV PUD Commingle program. The well is currently completed in the Dakota with a production rate of 120 MCFD/ <1 BOPD. Cumulative Dakota production is 1863 MMCF and 11.3 MBO. The Mesaverde interval will be added and the zones will be commingled upon completion of the well. Production Operations will perform a flow test on the well after the rig moves off. Prior Dakota production history will be used to determine the proper allocation for each zone.***

### **Maximum Pressure on this well is 3000 psi.**

1. MIRU. Record and report SI pressures on tubing, casing, & bradenhead. Lay blowdown line. Blow down casing & tubing. Kill well w/ 2% KCl down tubing. ND WH, NU BOP. Change rams to 2-3/8".
  2. TOOH, rabbit, & strap 242 jts of 2-3/8" (J-55, EUE, 4.7#) tubing @ 8458'. Visually inspect tubing, note and report any scale in tubing. Lay down bad joints. Tubing may be used for cleanout and rerun for production string if there is no scale or mechanical problems.
  3. PU 4-3/4" bit/mill (17# and 15.5#, 5-1/2" csg), 5-1/2" casing scraper, six (6) 3" drill collars (if necessary) and TIH w/ 2-3/8" workstring. Clean out w/ gas to TOL @ 8344'. TOOH.
  4. PU 3-1/4" bit/mill (3.303" drift ID of 4", 11.6#), 4" casing scraper, six (6) 3" drill collars (if necessary), 400' of 1-1/2" workstring and TIH w/ 2-3/8" workstring. Clean out w/ gas to PBTD @ 8720'. TOOH and stand back workstring.
  5. RU wireline. If tubing had appreciable scale when pulled from hole in Step 2 or appreciable amounts were circulated out of the 4" and 5-1/2" casing, run a 5-1/2" 17# WL gauge ring to 6730'. RIH and set 5-1/2" RBP @ 6720'. Spot 5-10' of sand on RBP.
  6. Load hole w/ 2% KCL water. PU 5-1/2" pkr on 2 jts of 2-3/8" tubing and set @ 60'. Pressure test casing and RBP to 3000 psi (62% of 4810 psi burst = 3000 psi, 5-1/2", J-55, 15.5#). Hold for 10 minutes. Release packer and stand back.
  7. If PT does not hold, TIH and search for leaks. Locate leak(s). TOOH. Engineering will provide squeeze design if necessary.
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8. TIH w/ 2-3/8" workstring open-ended blowing hole dry in stages to 6700' (20' above RBP). Spot 500 gallons of 15% HCL with 2/1000 gal inhibitor. TOOH.
9. RU wireline under packoff. Run CCL-GR tie-in strip from 6720' to 5900'. Perforate underbalanced Lower Menefee and Point Lookout @ the following depths with 3-1/8" HSC guns, at 1 and 2 SPF, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

<u>2 SPF @ 120° phasing</u>	6693, 6651, 6627, 6605, 6591, 6574	12 holes, 6 intervals
<u>1 SPF</u>	6565, 6557, 6541, 6528, 6518, 6509, 6501, 6497, 6488, 6480, 6475, 6444, 6438, 6412, 6408, 6390, 6384, 6380	18 holes, 18 intervals
Total: 30 holes, 24 intervals		


10. Change out rams to 3-1/2". PU and set 5-1/2" pkr on 2 jts of 3-1/2", J-55 or N-80 tubing/fracstring. RU stimulation company. Pressure test surface lines to 4000 psi. **Maximum STP = 3000 psi.** Hold 500 psi on annulus. Fracture stimulate the Point Lookout / Menefee w/ Arizona sand in slickwater with friction reducer as needed. When rate and pressure stabilize during pad shut down and obtain ISIP. When one-half of flush volume is gone, slow rate by 50% to determine if fluid will be on a vacuum. Adjust flush volume accordingly.
11. If well has pressure when stimulation is complete, flow back well immediately to pit. **Flowback rate not to exceed 4 BPM.** Frac company is to monitor flowback pressures for 30 minutes after shutdown. Flowback should continue for as long as necessary to release pkr. When well dies, release packer and stand back.
12. RU wireline. If necessary, run 5-1/2", 17# " WL gauge ring to 6350'. RIH and set 5-1/2" RBP @ 6350'. Spot 5-10' sand on RBP.
13. Load hole w/ 2% KCL water. PU 5-1/2" pkr on 2 jts of 3-1/2", J-55 or N-80 tubing/fracstring. Pressure test casing and RBP to 3000 psi (62% of 4800 psi burst). Hold for 10 minutes. Release pressure and stand back packer.
14. Change to 2-3/8" rams. TIH open ended w/ 2-3/8" workstring. Blow down with gas going in hole. Blow hole dry @ 6330'. Spot 400 gallons of 15% HCL (w/ 2 gal/1000 corrosion inhibitor). TOOH.
15. RU wireline under packoff. Perforate underbalanced Upper Menefee and Cliffhouse @ the following depths with 3-1/8" HSC guns, at 1 and 2 SPF, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

<u>2 SPF @ 120° phasing</u>	6337, 6321, 6315, 6294, 6281	10 holes, 5 intervals
<u>1 SPF</u>	6263, 6245, 6222, 6216, 6210, 6199, 6185, 6181, 6149, 6134, 6132, 6110, 6104, 6088, 6082, 6074, 6052, 6041, 6012, 5985, 5967	21 holes, 21 intervals
Total: 31 holes, 26 intervals		

16. Change out rams to 3-1/2". PU 5-1/2" pkr on 2 jts of 3-1/2", J-55 or N-80 tubing/fracstring.
17. RU stimulation company. Pressure test surface lines to 4000 psi. **Maximum STP = 3000 psi.** Hold 500 psi on annulus. Fracture stimulate the Cliffhouse/Menefee w/ Arizona sand in slickwater. If possible, when rate and pressure stabilize during pad shut down and obtain an ISIP. When one-half of flush volume is gone, slow rate by 50% to determine if fluid will be on a vacuum. Adjust flush volume accordingly.
18. If well has pressure when stimulation is complete, flow back well immediately to pit. **Flowback rate not to exceed 4 BPM.** Frac company is to monitor flowback pressures for 30 minutes after shutdown. Flowback should continue for as long as necessary to release pkr.

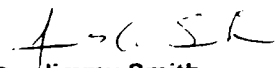
19. When well dies, release PKR & stand back. Change out rams to 2-3/8".
20. TIH w/ retrieving head on 2-3/8" tubing and clean out to RBP @ 6350'. If well cleans up quickly, obtain Cliffhouse/Menefee pitot gauge. Otherwise prepare to retrieve RBP. Retrieve RBP @ 6350' and TOOH.
21. TIH w/ retrieving head on 2-3/8" tubing and clean out to RBP @ 6720'. When sand and water rates are acceptable obtain pitot gauge. **Obtain 15, 30, 45 & 60 minute MV pitot gauges. These pitot gauges are required by the NMOCD for commingling approval.** Retrieve RBP @ 6720' & TOOH.
22. If well is making appreciable sand, run 1-1/2" workstring/stinger on bottom and the remaining 2-3/8" tubing, to clean up well. Clean out to PBD @ 8720'. Clean up to +/- 5 BPH and trace to no sand. Obtain final commingled pitot gauge. **Obtain 15, 30, 45 & 60 minute pitot gauges. Pitot gauges are required by the NMOCD for commingling approval.** When well is clean TOOH.
23. If well is still making appreciable sand, check w/ engineering to determine if a 1-1/2" stinger should be run in the 4" liner for production tubing. Otherwise run production tubing as follows: expendable check, one joint 2-3/8" tubing, standard SN, and remaining 2-3/8" tubing. Land tubing @ +/- 8644' (includes 6 jts or +/- 186' of additional tubing) bottom DK perforation @ 8706'. Broach tubing while running in hole.
24. ND BOP, NU WH. Pump off expendable check and flow well up tubing. Run swab to SN to ensure tubing is clear. RD & release rig to next location.

Approved:  2/12/97  
Regional Engineer

Approved:  2/18/97  
Drilling Superintendent

**Recommended Vendors:**

Stimulation TBA  
Cased Hole Services TBA

  
**Engineering** Jimmy Smith

326-9713-(W)  
324-2420-(P)  
327-3061-(H)

Sean Woolverton

326-9837- (W)  
326-8931- (P)  
326-4525- (H)

PERTINENT DATA SHEET  
SAN JUAN 27-5 UNIT #105

**Location:** 820' FSL, 1500' FWL  
Unit N, Section 11, T27N, R5W  
Rio Arriba County, New Mexico

**Field:** Basin Dakota

**Elevation:** 7467' GL  
**LAT:** 36° 34' 59"  
**LONG:** 107° 19' 51"  
**DP#:** 52196A  
**TD:** 8741'  
**PBTD:** 8720'

**Spud Date:** 05-29-67

**Completion Date:** 06/27/67

**Casing Record:**

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>	<u>Sxs Cmt</u>	<u>Cement Top</u>
15"	10-3/4"	32.75#, H-40	324'	240	surface
9-7/8"	7-5/8"	26.40#, J-55	4580'	165	3360' (TS)
6-3/4"	5-1/2"	15.5#, J-55	0-6293'		
		17#, J-55 & N-80	6293-8434'	300	4300' (TS)
	4"	11.6#, J-55 (flush joint)	8344-8741'	100	8344' (TOL)

**Tubing Record:**

<u>Tubing Size</u>	<u># of Jts</u>	<u>Weight &amp; Grade</u>	<u>Depth Set</u>	<u>BHA</u>
2-3/8"	242	4.7#, J-55	8458'	Otis SN on bottom

**Formation Tops:**

Pictured Cliffs	4318'	Point Lookout	6453'	Graneros	8451'
Cliffhouse	6080'	Greenhorn	8390'	Dakota	8597'

**Logging Record:**

IEL / GR-AVL / FFMSG / CFM / TS

**Stimulation:**

8484-8500', 8600-8614', 8656-8666', 8680-8686', 8698-8706', w/20 SPZ,  
frac'd w/51,590 gal water, 50,000# 40/60 sand

**Workover History:**

01/68: 2" type 'W' Otis choke was set @ 7801' w/a 1/4" bean to eliminate freezing in the 2" production tubing.  
02/74: 1/4" bottom hole choke @ 7801' was removed from the tubing.

**Production History:**

Latest Deliverability	176 MCFD	> 1 BOPD	
Initial Deliverability	4443 MCFD AOF	ISITP: 2366	ISICP: 2357
Cums:	1840 MMCF	11.3 MBO	

**Transporter:**

Oil/Condensate: Giant                      Gas: Williams

# San Juan 27-5 Unit #105

Basin Dakota

Unit N, Section 11, T27N, R5W

Rio Arriba County, NM

Elevation: 7467' GL

LAT: 36°34' 59"

LONG: 107°19' 51"

date spud: 05-29-67

97 FEB 21 PM 1:52

070 FRI MAR 04 1967

