

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells 13 PM 1:40

070 FARMINGTON, NM

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

990' FSL, 790' FEL, Sec. 14, T-27-N, R-5-W, NMPM

5. Lease Number
SF-079492B

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 103E
9. API Well No.
30-039-23897
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 commingle order will be applied for.

RECEIVED
MAR 18 1997

OIL CON. DIV.
DIST. 3

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

Signed *[Signature]* (JASPU) Title Regulatory Administrator Date 3/13/97

(This space for Federal or State Office use)

APPROVED BY /S/ Duane W. Spencer Title _____

Date MAR 14 1997

CONDITION OF APPROVAL, if any:

[Signature]

NMOC

ok
need Doc

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Rio Bravo 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 30-039-23897		Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7454	Property Name San Juan 27-5 Unit		Well Number 103E
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY		Elevation 6599'

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
P	14	27-N	5-W		990	South	790	East	R.A.

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

12 Dedicated Acres MV-E/320 DK-E/320	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 Fred B. Kerr Jr. dated 9-13-85.	RECEIVED MAR 18 1997 OIL CON. DIV. DIST. 3
9-13-85 070 120 130 140 150	990' 790'

OPERATOR CERTIFICATION

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

Peggy Bradfield
Signature
Peggy Bradfield
Printed Name
Regulatory Administrator
Title
3-13-97
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.
2/10/97

Date of Survey

Signature and Seal of Professional Surveyor

NEALE C. EDWARDS
NEW MEXICO
6857
Professional Surveyor
Certificate Number

BURLINGTON RESOURCES

San Juan 27-5 Unit #103E

Blanco Mesaverde R/C & Commingle w/ Dakota

Unit P, SE Section 14, T27N, R5W

Rio Arriba County, New Mexico

LAT: 36° 34' 7" LONG: 107° 19' 14"

- 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.
- 8,000' of 2-3/8" 4.7# EUE J-55 workstring and six (6) 3-1/8" drill collars if needed.
- 8 frac tanks & 1 rig tank to be spotted and filled with 2% KCL. Heat tanks to 80°, 24 hrs prior to frac.
- Ensure CIBP's are T-Lok, when stacked plugs are run.

This well is part of the 1997 MV PUD Commingle program. The SJ 27-5 Unit #103E is currently completed in the Dakota producing at 250 MCFD/ 1 BOPD. Cumulative Dakota production is 1035 MMCF and 3.05 MBO. The Mesaverde interval will be added and both zones will be commingled upon completion of the well.

Note: Two Stage Mesaverde Stimulation will use 25# XL fluid.

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.
2. TOOH, rabbit, & strap 234 jts of 1-1/2" (J-55, EUE, 2.9#) tubing @ 7816'. 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 other problems.
3. Change rams to 2-3/8". PU 3-7/8" bit, 4-1/2" casing scraper, six (6) 3-1/8" drill collars (if necessary) and PU and strap 2-3/8", 4.7#, J-55, EUE workstring. Clean out w/ gas to PBTD @ 7860'. TOOH.
4. RU wireline. If tubing had appreciable scale when pulled from hole in Step 2., run 4-1/2" 11.6# - 3.875" WL gauge ring to 5900'. RIH and set 4-1/2" CIBP @ 5860'.
5. Load hole w/ 2% KCL water. PU 4-1/2" pkr on 2 jts of 2-3/8" tubing and set @ 60'. Pressure test casing and CIBP to 3000 psi (62% of 4800 psi burst). Hold for 10 minutes. Release psi & stand back packer.
6. If PT does not hold, search for leaks. Locate leak(s). TOOH. Engineering will provide squeeze design if necessary.
7. TIH w/ 2-3/8" workstring open-ended blowing hole dry in stages to 5840' (+/-20' above CIBP). Spot 500 gallons of 15% HCL with 2/1000 gal inhibitor. TOOH.
8. RU wireline under packoff. Perforate underbalanced Lower Menefee and Point Lookout @ the following depths with 3-1/8" HSC guns, 1 & 2 SPF, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

<u>2 SPF</u>	5840, 5816, 5803, 5781, 5743, 5736, 5710, 5686, 5677	9 intervals, 18 holes
<u>1 SPF</u>	5665, 5660, 5648, 5638, 5618, 5614, 5595, 5592	
	5548, 5537, 5505, 5502, 5497, 5486, 5475	15 intervals, 15 holes
TOTAL:		24 intervals, 33 holes
9. Change out rams to 2-7/8". PU 4-1/2" PKR on 2 jts of 2-7/8", 6.5#, J-55 or N-80 tubing/fracstring.

10. RU stimulation company. Note: Two densimeters are needed (see frac sheet). Pressure test surface lines to 4000 psi. **Maximum STP = 3000 psi. Hold 500 psi on backside of packer and monitor. Monitor 4-1/2" X 7" annulus also.** Fracture stimulate the Point Lookout/Lower Menefee w/ 8,000# 40/70 Arizona sand and 96,000# 20/40 Arizona sand in 25# XL Gel. 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 - choke flowback line with 1/4" to 1/2" positive choke.** Frac company is to monitor pressures (if any) 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 (based on flush), run 4-1/2" 11.6# - 3.875" WL gauge ring to 5460'. RIH and set 4-1/2" CIBP @ 5460'.
13. Change rams to 2-3/8". Load hole w/ 2% KCL water. PU 4-1/2" PKR on 2 jts of 2-3/8", 6.5#, J-55 or N-80 tubing/fracstring. Pressure test casing and CIBP to 3000 psi (62% of 4800 psi burst). Hold for 10 minutes. Release pressure and stand back packer.
14. TIH open ended w/ 2-3/8" workstring. Blow down with gas going in hole. Blow hole dry @ 5440' (+/-20' above CIBP). Spot 400 gal of 15% HCL (w/ 2 gal/1000 corr. inhibitor). TOOH.
15. RU wireline under packoff. Underbalance perforate the Cliffhouse and Menefee @ the following depths with a 3-1/8" HSC gun, 1 & 2 SPF, 12 gram charges (Owen HSC-3125 306T) and 0.29" diameter holes:

<u>2 SPF</u>	5442, 5430, 5425, 5416, 5389, 5384, 5379, 5358, 5354, 5325	10 intervals, 20 holes
<u>1 SPF</u>	5293, 5261, 5246, 5238, 5212, 5208, 5204, 5178 5174, 5166, 5140, 5136, 5130, 5112, 5106	15 intervals, 15 holes
TOTAL:		<u>25 intervals, 35 holes</u>
16. Change out rams to 2-7/8". PU 4-1/2" PKR on 2 jts of 2-7/8", 6.5#, 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 backside of packer and monitor. Monitor 4-1/2" X 7" annulus also.** Fracture stimulate the Upper Menefee/Cliffhouse w/ 7,000# 40/70 Arizona sand and 96,000# 20/40 Arizona sand in 25# XL Gel. 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.
18. If well has pressure when stimulation is complete, flow back well immediately to pit. **Flowback rate not to exceed 4 BPM - choke flowback line with 1/4" to 1/2" positive choke.** 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. PU 3-7/8" bit and collars (if necessary) on 2-3/8" workstring and TIH. Clean out to CIBP @ 5460'. Drill CIBP @ 5460'. Clean out to CIBP @ 5860'. **Obtain 15, 30, 45 & 60 minute pitot gauges for the MV. Pitot gauges are required by the NMOC and BLM for commingling approval.**

21. Drill CIBP @ 5860'. Clean out to PBTB @ 7860'. Obtain final commingled pitot gauge. Obtain 15, 30, 45 & 60 minute pitot gauges. Pitot gauges are required by the NMOCD and BLM for commingling approval. When well is clean TOOH.
22. Run production tubing as follows: expendable check, one joint 1-1/2" tubing, 1.81" SN, and remaining 1-1/2" tubing. Broach tubing while running in hole. Land tubing @ 7816' as removed from well.
23. ND BOP, NU WH. Pump off expendable check and flow well up tubing if well will flow. RD & release rig to next location.

Approved:  4/10/97
Regional Engineer

Approved:  4/12/97
Drilling Superintendent

Recommended Vendors:

Stimulation Rig Dependent Cased Hole Services Rig Dependent

Engineers -

James A. Smith
Office - (326-9713)
Home - (327-3061)
Pager - (324-2420)

Sean Woolverton
Office - (326-9837)
Home - (326-4525)
Pager - (326-8931)

Frac Consultants

Mark Byars
Pager - (327-8470)
Mobile - (320-0349)
Home - (327-0096)

Mike Martinez
Pager - (599-7429)
Mob - (xxx-xxxx)
Home - (327-6161)


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PERTINENT DATA SHEET
SAN JUAN 27-5 UNIT #103E

<u>Location:</u>	990' FSL, 790' FEL Unit P, Section 14, T27N, R5W Rio Arriba County, New Mexico	<u>Elevation:</u>	6599' GR
<u>Field:</u>	Basin Dakota/Blanco Mesaverde	<u>LAT:</u>	36° 34' 7"
<u>TD:</u>	7870'	<u>LONG:</u>	107° 19' 14"
<u>PBTD:</u>	7860'	<u>DPS:</u>	54457A - DK 36194A - MV
<u>Spud Date:</u>	11/17/85	<u>GWI:</u>	55.02% - DK
<u>Completion Date:</u>	12/30/85	<u>NRI:</u>	46.03% - DK
		<u>GWI:</u>	67.46% - MV
		<u>NRI:</u>	56.91% - MV

Casing Record:

<u>Hole Size</u>	<u>Casing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>Sxs Cmt</u>	<u>Cement Top</u>
12-1/4"	9-5/8"	32.3#, H-40	227'	130 (153 ft3)	surface
8-3/4"	7"	20#, K-55	3796'	342 (539 ft3)	2700' (TS)
6-1/4"	4-1/2"	10.5#, J-55	6472'		
		11.6#, J-55	6472-7867'	335 (628 ft3)	3200' (TS)
		Float Collar @ 7860', Marker Jt @ 7516.91'			

Tubing Record:

<u># of Jts</u>	<u>Tubing Size</u>	<u>Weight & Grade</u>	<u>Depth Set</u>	<u>BHA</u>
234	1-1/2"	2.9#, J-55	7816'	SN @ 7781'

Formation Tops:

Chacra	4388'	Pt. Lookout	5582'	Greenhorn	7528'
Mesaverde	5104'	Mancos	6082'	Graneros	7587'
Menefee	5230'	Gallup	6560'	Dakota	7723'

Logging Record:

Temp Log / Comp Density Sidewall NL / Ind Gamma-Ray Log / Temp Surveys

Stimulation:

Dakota: Treated w/180,000# 20/40 sand & 133,150 gal slickwater
Perfs: 7619', 7623', 7627', 7631', 7635', 7639', 7643', 7647', 7740', 7744', 7748', 7752', 7756', 7760',
7764', 7796', 7800', 7804', 7808', 7812', 7818', 7822', 7826', 7830', 7834', w/1 SPZ

Workover History:

Production History:

Latest Deliverability	315 MCFD	1.2 BOPD
Initial Deliverability	790 MCFD	ISIP: 1953
Cums:	1035 MMCF	3.05 MBO

Transporter:

Oil/Condensate: Giant Gas: Williams

San Juan 27-5 Unit #103E

Blanco Mesaverde/Basin Dakota

Unit P, Section 14, T27N, R5W

Rio Arriba County, NM

Elevation: 6575' GL

LAT: 36° 39' 22" / LONG: 107° 21' 36"

date spud: 10-20-85

