

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

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
800' FNL, 800' FEL, ^A Sec. 22, T-27-N, R-5-W, NMPM, Rio Arriba County

API # (assigned by OCD)
30-039-20221

5. Lease Number
Fee

6. State Oil & Gas Lease #

7. Lease Name/Unit Name
San Juan 27-5 Unit

8. Well No.
117

9. Pool Name or Wildcat
Blanco MV/Basin DK

10. Elevation:

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 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
NOV 15 1996
OIL CON. DIV.
DIST. 3

SIGNATURE



(LLL8) Regulatory Administrator November 14, 1996

(This space for State Use)

Approved by Original Signed by FRANK T. CHAVEZ Title SUPERVISOR DISTRICT # 3 Date NOV 15 1996

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

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 30-039-20221	Pool Code 72319/71599	Pool Name Blanco Mesaverde/Basin Dakota
Property Code 7454	Property Name San Juan 27-5 Unit	Well Number 117
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY	Elevation 6593'

10 Surface Location

UL or lot no. A	Section 22	Township 27-N	Range 5-W	Lot Ida	Feet from the 800	North/South line North	Feet from the 800	East/West line East	County R.A.
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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
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12 Dedicated Acres MV-E/320 DK-N/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

Not resurveyed, prepared
from a plat by David O.
Milven dated 3-28-69.

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OIL CON. DIV.
DIST. 3

17 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
10-23-96
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.

10/18/96

Date of Survey
Signature and Seal of Registered Professional Surveyor:
HELEN C. EDWARDS
6857
6857
Certificate No.

San Juan 27-5 Unit #117

Mesaverde Recompletion

Unit A, Section 22, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-33-49, Long. 107-20-19

Inspect location and install and/or test rig anchors. **This job will require 19 total frac tanks.** Comply with all BLM, NMOCD, Forestry, and MOI rules and regulations. **BE SAFE.**

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 247 jts (7823') of 1-1/2" 2.9# K-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 7880'. TOOH and LD bit and scraper.
5. MIRU electric line unit. RIH and set CIBP at 5900' (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 5900' 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 5011' to continue. Evaluate CBL and send copy to production and drilling.

Point Lookout 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:

**5570' 5579' 5586' 5589' 5596' 5599' 5605' 5615' 5618' 5631'
5637' 5639' 5671' 5676' 5687' 5701' 5726'
(34 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 5800'. 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 5420'.
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San Juan 27-5 Unit #117

Mesaverde Recompletion

Unit A, Section 22, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-33-49, Long. 107-20-19

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 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.
10. Release packer. TIH w/ 4-1/2" packer on frac string and knock balls off perforations. Pull up and reset packer at approximately 5420'.
11. RU stimulation company. Pressure test surface treating lines to 4800 psi. **Maximum treating pressure for various rates is listed below.** Fracture stimulate the Point Lookout interval w/ 46,000# 20/40 sand in slickwater at approximately 35 bpm according to the attached procedure.

Rate	Max Pressure
0 bpm	3800 psi
20 bpm	5600 psi
35 bpm	7000 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 5450'. Dump 2 sks sand on RBP.

Menefee 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:

5270' 5281' 5284' 5303' 5311' 5314' 5322' 5327' 5351' 5357'
5369' 5373' 5403' 5406' 5428'
(30 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 5120'.
16. RU stimulation company. **Hold safety meeting.** Pressure test surface treating lines to 4800 psi. **Maximum treating pressure is 3800 psi.** Pump

San Juan 27-5 Unit #117

Mesaverde Recompletion

Unit A, Section 22, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-33-49, Long. 107-20-19

1500 gals of 15% HCl acid at 10-15 bpm. Drop a total of 45 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 5120'.
18. RU stimulation company. Pressure test surface treating lines to 4800 psi. **Maximum treating pressure for various rates is listed below.** Fracture stimulate the Menefee interval w/ 50,000# 20/40 sand in slickwater at approximately 35 bpm according to the attached procedure.

Rate	Max Pressure
0 bpm	3800 psi
20 bpm	5500 psi
35 bpm	7000 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 w/ packer and 2-7/8" frac string.
20. RU electric line unit. RIH w/ 4-1/2" RBP and set at 5225'. Dump 2 sks sand on RBP.

Cliffhouse Stimulation:

21. 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:

**5061' 5064' 5084' 5090' 5094' 5098' 5130' 5136' 5149' 5154'
5168' 5174' 5177' 5181' 5185'
(30 total holes)**

22. RD electric line unit. PU 4-1/2" packer on 2-7/8" N-80 buttress frac string. TIH and set packer at approximately 5200'. 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 4911'.
23. 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 45 7/8" diameter
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San Juan 27-5 Unit #117

Mesaverde Recompletion

Unit A, Section 22, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-33-49, Long. 107-20-19

(1.3 sg) RCN ball sealers spaced evenly throughout the job. Record injection rates and pressures throughout the job. RD stimulation company.

24. Release packer. TIH w/ 4-1/2" packer on frac string and knock balls off perforations. Pull up and reset packer at approximately 4911'.

25. RU stimulation company. Pressure test surface treating lines to 4800 psi. **Maximum treating pressure for various rates is listed below.** Fracture stimulate the Cliffhouse interval w/ 62,000# 20/40 sand in slickwater at approximately 35 bpm according to the attached procedure.

Rate	Max Pressure
0 bpm	3800 psi
20 bpm	5400 psi
35 bpm	7000 psi

26. 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.

27. TIH w/ 2-3/8" workstring and clean out to the RBP set at 5225' with air until sand and water production is minimal (run retrieving head on last clean out run). **Obtain flow gauge and record as Cliffhouse.** Latch onto RBP and TOOH.

28. TIH w/ 2-3/8" workstring and clean out to the RBP set at 5450' with air until sand and water production is minimal (run retrieving head on last clean out run). **Obtain flow gauge and record as Cliffhouse / Menefee.** Latch onto RBP and TOOH.

29. PU mill on 2-3/8" tbg. TIH and clean out to CIBP set at 5900' with air until sand and water production is minimal. **Obtain flow gauge and record as Cliffhouse / Menefee / Point Lookout.** Mill up CIBP set at 5900', push to bottom, and clean out to PBTD of 7880'. **Obtain flow gauge and record as Cliffhouse / Menefee / Point Lookout / Dakota.** TOOH and LD mill.

30. Rabbit and TIH with 1-1/2" 2.9# K-55 tubing with expendable check and seating nipple one joint off bottom and cleanout to PBTD of 7880' with air. Land tubing at approximately 7850'. 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 27-5 Unit #117

Mesaverde Recompletion

Unit A, Section 22, T-27-N, R-5-W, Rio Arriba County, New Mexico

Lat. 36-33-49, Long. 107-20-19

Approved: _____
Regional Team Leader

Approved: _____
Drilling Superintendent

San Juan 27-5 Unit #117
Unit A, Sec 22, T-27-N, R-5-W

Location: 800' FNL, 800' FEL
 Rio Arriba County, NM

Latitude: 36-33-49
Longitude: 107-20-19

Current Field: Basin Dakota
Spud: 6/16/69
Elev GL: 6593'
TD: 7895'

Logs Run: I-ES, FDC-GR, TS
Completed: 7/31/69
Elev KB:
PBTD: 7880'

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>
13-3/4"	9-5/8"	32.3#	H-40	214'	200 sks	Surf (Circ)
8-3/4"	7"	20#	J-55	3650'	180 sks	2800' (TS)
6-1/4"	4-1/2"	10.5 & 11.6#	K-55	7895'	358 sks	3210' (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>
1-1/2"	2.9#	K-55	7823'	247		

FORMATION TOPS:

Ojo Alamo	—	Pictured Cliffs	—	Pt Lookout	5548'
Kirtland	—	Cliffhouse	5055'	Gallup	6787'
Fruitland	—	Menefee	—	Dakota	7681'

Completions:

Dakota

Perfs: 7582-98, 7700-16, 7764-72, 7784-92, 7836-52 (16 spz)

Frac: 68,000# 40/60 sand and 79,220 gal water + balls.

SIWHP: 2655 psi AOF: 7214 mcf/d

Cementing Information

9-5/8" Casing cemented w/ 200 sks Class A w/ 1/4 cu ft gilsonite per sack and 1/4# gel flake nd 3% CaCl.

7" Casing cemented w/ 130 sks Class C, 4% gel, 1/4 ccu ft fine gilsonite /sk followed by 50 sks Class C, 2% CaCl.

4-1/2" Casing cemented w/ 258 sks Class A, 8% gel, 12-1/2# gilsonite /sk, 0.4% HR-4 followed by 100 sks Class A neat, 1/4# tuff plug, 0.4% HR-4 /sk.

Workover History:

NA

LLL:rjp 10/14/96

SAN JUAN 27-5 UNIT #117

Unit A, Section 22, T-27-N, R-5-W
Lat. 36-33-49, Long. 107-20-19

CURRENT WELLBORE SCHEMATIC

