

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

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 1020' FSL, 890' FWL, Sec. 4, T-31-N, R-9-W, NMPM, San Juan County <i>9</i> <i>M</i></p>	<p>API # (assigned by OCD) 30-045-11011</p> <p>5. Lease Number Fee</p> <p>6. State Oil&Gas Lease #</p> <p>7. Lease Name/Unit Name San Juan 32-9 Unit</p> <p>8. Well No. 47</p> <p>9. Pool Name or Wildcat Blanco Pictured Cliffs. Blanco Mesaverde</p> <p>10. Elevation: 6588 GR</p>
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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 Pictured Cliffs formation to the subject well according to the attached procedure and wellbore diagram. After recompletion the well will be down hole commingled. A down hole commingle application will be applied for.

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APR 29 1997
OIL CON. DIV.
DIST. 3

SIGNATURE *[Signature]* (MEL5) Regulatory Administrator April 26, 1997

(This space for State Use)

Approved by ORIGINAL SIGNED BY ERNIE BUSCH Title DEPUTY OIL & GAS INSPECTOR, DIST. #3 Date MAY - 5 1997

** Notify in time to witness CBV*

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-102
 Revised February 21, 1994

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

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 30-045-11011		Pool Code 72359/72319		Pool Name Blanco Pictured Cliffs/Blanco Mesaverde	
Property Code 7473		Property Name San Juan 32-9 Unit			Well Number 47
OGRID No. 14538		Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6588'

¹⁰ Surface Location

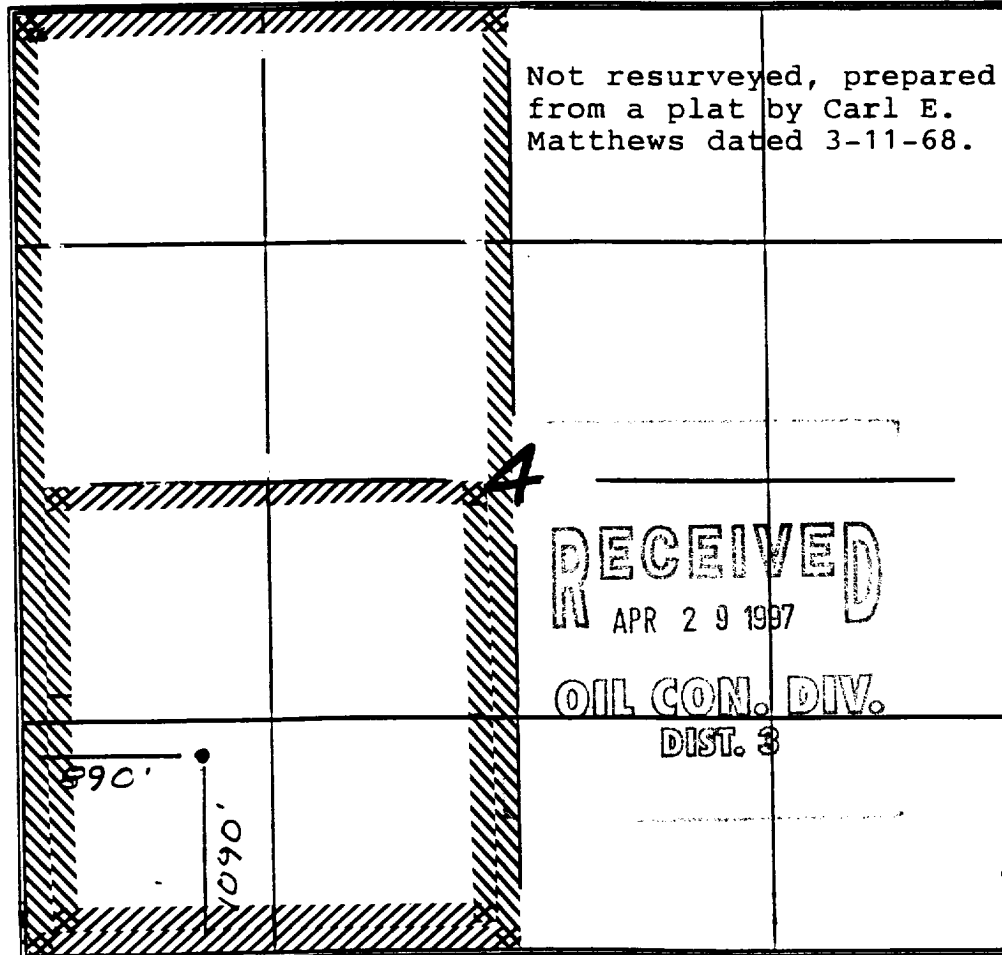
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	4	31-N	9-W		1090	South	890	West	S. J.

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 PC- 156.73 MV- 51/311-19	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



RECEIVED
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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 Bradford
 Signature
 Peggy Bradford
 Printed Name
 Regulatory Administrator
 Title
 4-28-97
 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.

4/24/97
 Date of Survey
 Signature and Seal of Professional Surveyor

 6857
 Certificate Number

San Juan 32-9 Unit #47

Mesaverde / Pictured Cliffs
Unit E, Section 16, T31N, R09W
Lat./ Long. 36-55.36'/107-47.46'
Menefee Payadd/Pictured Cliffs Recompletion
Workover Procedure 3/17/97

1. Hold safety meeting. Comply with all MOI, BLM and NMOCD rules and regulations. Dig flowback pit or set flowback tank. Install 2x400 bbl rig tank and fill w/ 2% KCL water.
2. Obtain and record all wellhead pressures. NU relief line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP.
3. TOOH w/ 2-3/8" Mesaverde tubing set at \pm 5924' and lay down. Inspect tubing and replace bad tubing as necessary.
4. PU 4-1/2" bit and 5-1/2" (15.5#) casing scraper on 2-3/8" workstring and clean out to PBTD of \pm 5953'. Blow hole clean with air/mist. Obtain pitot gauge and record on morning report. TOOH.
5. RIH and wireline set a 5-1/2" CIBP @ \pm 5670'. Load hole from surface with 2% KCL water.
6. Run CBL/CCL/GR from 5670' to surface. Send logs to office immediately and perforations and final packer setting depths will be supplied. Also, a squeeze procedure will be provided if necessary.
7. Perforate the Menefee interval (perfs will be provided after reviewing logs) using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes.

Inspect guns to ensure all perforations fired. RD wireline.
8. TIH w/ 5-1/2" fullbore packer and 2-3/8" tubing. Set packer @ \pm 5655' and pressure test casing and CIBP to 3800 psi. Release packer and TOOH to \pm 150' above top Menefee perf and reset packer.
9. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ \pm 8 Bbls/min dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TIH knocking balls off of perforations. TOOH, lay down packer and stand back tubing.
10. TIH with two scab liner packers with \pm 50' of 2-7/8" N-80 frac string between the two packers on 2-3/8" work string. Set scab liner packers to overlap existing Cliffhouse perforations @ 5367' to 5393' (26' between top and bottom perf). Set top packer element @ \pm 5350' and bottom element @ \pm 5400'.

11. TIH with packer / RBP combination on 2-3/8" workstring. Set RBP above scab liner at approximately 5300'. TOO H and set packer at $\pm 60'$. Pressure test casing to 3800 psi. TIH with workstring and retrieve RBP set at 5300'.
12. TIH w/ 5-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
13. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
14. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Menefee interval @ ± 45 BPM using slickwater and 75M lbs. of sand. (Final stimulation procedure will be provided after reviewing logs.) Do not over displace during flush. (Stage flush as soon as sand concentration begins to fall.) Shut in well immediately after completion of the stimulation until pressure is zero.
15. Release packer and TOO H laying down 60' of frac string.
16. TIH with Scab Liner retrieving tool and bumper sub on 2-3/8" workstring. Recover Scab Liner set at $\pm 5350'$ to $\pm 5400'$ and TOO H.
17. RIH and wireline set a 5-1/2" RBP @ $\pm 4500'$. Dump $\pm 10'$ of sand on top of RBP with dump bailer.
18. Perforate the following Pictured Cliffs interval using 3-1/8" HSC guns with 12 gram charges and 0.29" diameter holes. (Perforations will be provided after logs are reviewed.)

Inspect guns to ensure all perforations fired. RD wireline.
19. TIH w/ 5-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
20. **Maximum allowable treating pressure is 3800 psi during acid job.** Pump 1500 gallons of 15% HCL acid @ maximum rate pressure will allow dropping 7/8" diameter RCN ball sealers spaced evenly throughout the job (2 balls per perforation hole). Release packer and TOO H standing back frac string.
21. RU wireline, retrieve balls w/ 5-1/2" junk basket and report number of hits.
22. TIH w/ 5-1/2" fullbore packer and two joints of 2-7/8" N-80 frac string. Set packer.
23. **Hold safety meeting. Maximum allowable surface treating pressure is 3800 psi.**
24. Pressure test surface lines to 4800 psi. (1000 psi over maximum treating pressure but less than the working pressure of the lines.) Fracture stimulate the Pictured Cliffs interval @ ± 40 BPM using 30# linear gel with 70 Quality Nitrogen and $\pm 100m$ lbs of sand tagged w/ Irridium. (Final frac design will be provided after reviewing logs). **Do not over displace during flush.** If well is on a vacuum, cut flush by 15%.

25. Close frac valve and RD stimulation line. RU flowback line and flow well through 1/8" positive choke. Continue to increase choke size until pressure falls to zero. When well dies, shut in.
26. Release packer and TOOH laying down 2-7/8" frac string.
27. TIH w/ 2-3/8" tubing with notched collar and CO to RBP set @ $\pm 4500'$. Obtain accurate pitot gauge for Pictured Cliffs interval. Record Pictured Cliffs pitot gauge in report. (Gauge may be used for allocation formula in commingling approval.) TOOH.
28. TIH w/ retrieving head and release 5-1/2" RBP @ $\pm 4500'$. TOOH.
29. TIH w/ 4-3/4" mill on 2-3/8" tubing and CO to CIBP set @ 5670'. Obtain pitot gauge for Pictured Cliffs, Cliffhouse and Menefee intervals.
30. Drill up CIBP set @ $\pm 5670'$ and CO to PBTD (5953'). PU above the Pictured Cliffs perforations and flow the well naturally, making short trips for clean up when necessary. Obtain commingled pitot gauge for Pictured Cliffs and Mesaverde after clean up.
31. When sand has diminished, TOOH.
32. RU wireline company. Run After Frac GR from $\pm 5851'$ to top of tracer activity. RD wireline.
33. TIH with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, a seating nipple, then the remaining 2-3/8" production tubing. CO to PBTD ($\pm 5953'$). Land tubing near bottom Mesaverde perforation (5851').
34. ND BOP's, NU WH. Pump off expendable check. Obtain final pitot up tubing. If well will not flow on it's own, make swab run to seating nipple. If swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Recommend: ME. Lister
Production Engineer

Approval: _____
Northwest Basin Team Leader

Approval: _____
Drilling Superintendent

Contacts:

**San Juan 32-9 Unit #47
Unit M, Sec 4, T31N, R09W**

Location: 1090' FSL, 890' FWL
San Juan County, NM

Latitude: 36-55.36'
Longitude: -107-47.46'

Current Field: Blanco Mesaverde
Spud: 10/19/56
Elev GL: 6598'
TD: 5975'

Logs Run: GR; Neut.; TS;
Completed: 11/7/56
Elev KB:
PBTD: 5953'

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#	S.W.	172'	125 sx	To surface
9-5/8"	7-5/8"	26.4#	J-55	3792'	300 sx	2400' (TS)
6-3/4"	5-1/2"	15.5#	J-55	5970'	300 sx	3405' (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	5924'	191		

FORMATION TOPS:

Ojo Alamo	—	Pictured Cliffs	3440'	Pt Lookout	5730'
Kirtland	2240'	Cliffhouse	5327'	Gallup	—
Fruitland	3090'	Menefee	5400'	Dakota	—

Completions:

Lower Point Lookout
Perf: 5805'-5851'
Frac'd w/54,650 gal water and 32,500# sand

Upper Point Lookout
Perf: 5695'-5748'
Frac'd w/52,970 gal water and 60,000# sand

Cliff House
Perf: 5367'-5393'
Frac'd w/49,776 gal water and 60,000# sand

Cementing Information

10-3/4" csg: 125 sx reg cmt
7-5/8" csg: 125 sx reg cmt, 125 sx Pozmix, 50# Flocele & 4% gel followed w/50 sx Neat cmt.
5-1/2" csg: 125 sx reg cmt, 125 sx Pozmix, 1/8# Flocele/sx, 4% gel, followed w/50 sx Neat cmt

Workover History:

SAN JUAN 32-9 UNIT #47

BLANCO MESAVERDE

1090' FSL, 890' FWL
UNIT M, SEC 4, T31N, R09W, SAN JUAN COUNTY, NM
AS OF 8/08/96

COMPLETED 11/7/56
ELEVATION 6598' GL

10-3/4" 32.75# SW CSG SET @ 172'
CMT WITH 125 SX
CIRC. CEMENT TO SURFACE

OJO ALAMO UNDEV.

KIRTLAND @ 2240'

FRUITLAND @ 3090'

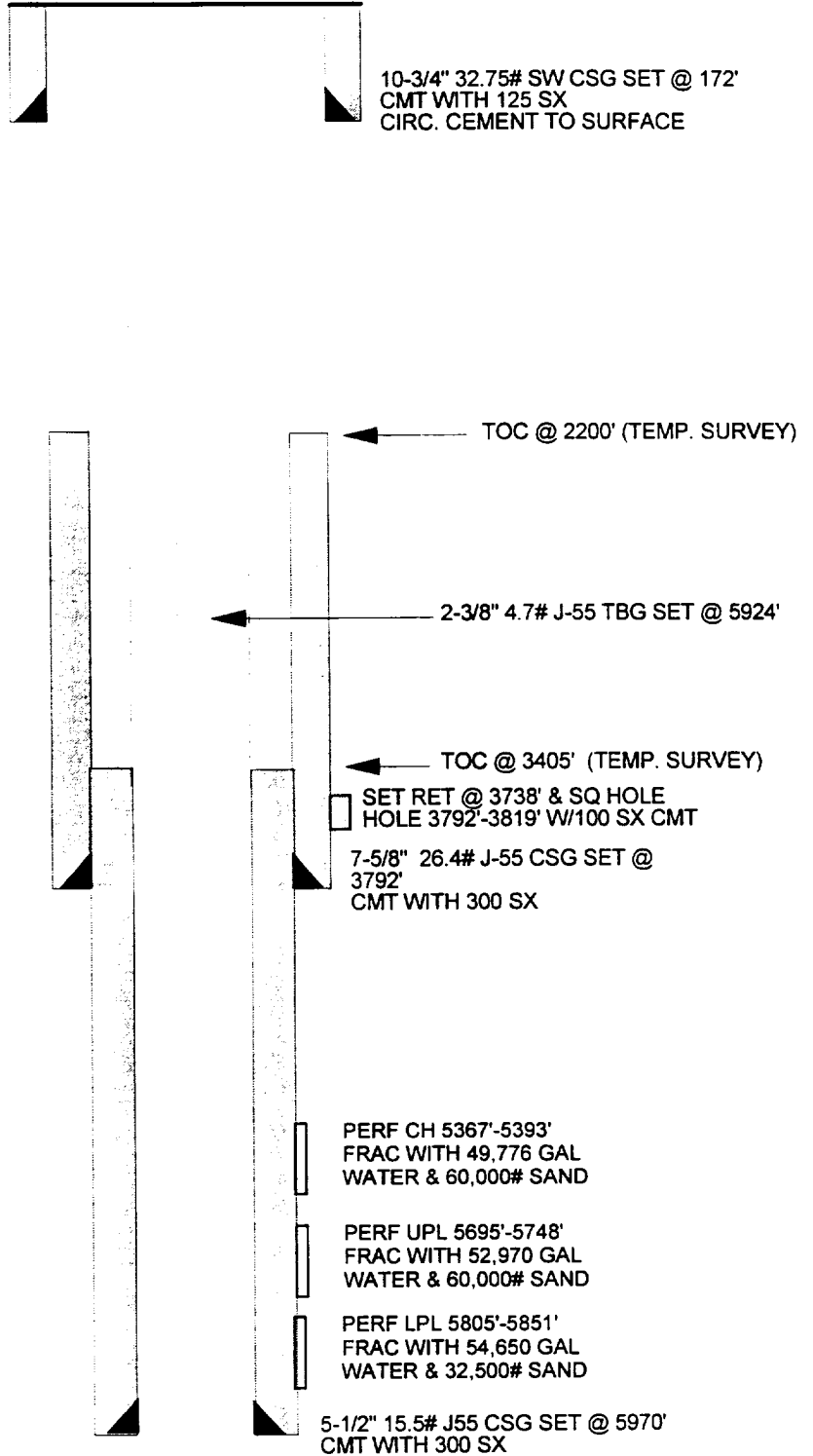
PICTURED CLIFFS @ 3440'

LEWIS @ 3595'

CLIFFHOUSE @ 5327'

MENELEE @ 5400'

PT. LOOKOUT @ 5730'



TD 5975'
PBSD 5953'