

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 990'FNL, 990'FEL, Sec.5, T-31-N, R-9-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-11098</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. 24</p> <p>9. Pool Name or Wildcat Blanco Pictured Cliffs Blanco Mesaverde</p> <p>10. Elevation: 6694 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.

RECEIVED
APR 28 1997
OIL CON. DIV.
DIST. 3

SIGNATURE *Ernie Busch* (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 - 2 1997

** Notify in time to witness C&I*

District I
PO Box 1980, Hobbs, NM 88241-1980
District II
PO Drawer DD, Artesia, NM 88211-0719
District III
1000 Mio 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
Revised February 2
Instructions
Submit to Appropriate District:
State Lease - 4
Fee Lease - 3

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

AMENDED R

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-045-11098		Pool Code 72359/72319		Pool Name Blanco Pictured Cliffs/Blanco Mesaver	
Property Code 7473	Property Name San Juan 32-9 Unit			Well Number 24	
OGRID No. 14538	Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			Elevation 6694'	

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
A	5	31-N	9-W		990	North	990	East	S.J.

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 Acre PC-158.37 W-E/316.70	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

<p>16</p> <p>Not resurveyed, prepared from a plat by C.U. Wals dated 3-7-56.</p> <p>RECEIVED APR 29 1997</p> <p>OIL CON. DIV. DIST. 3</p>		<p>OPERATOR CERTIFICATION</p> <p>I hereby certify that the information contained hereon is true and complete to the best of my knowledge and belief.</p> <p><i>Peggy Bradfield</i></p> <p>Signature: <u>Peggy Bradfield</u></p> <p>Printed Name: <u>Regulatory Administrator</u></p> <p>Title: _____</p> <p>Date: <u>4-28-97</u></p>
		<p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys or under my supervision, and that the same is correct to the best of my belief.</p> <p><u>4/24/97</u></p> <p>Date of Survey: _____</p> <p>Signature and Seal of Professional Surveyor: <u>NEALE C. EDWARDS</u></p> <p>6857</p> <p>Certificate Number: <u>6857</u></p>

San Juan 32-9 Unit #24
Mesaverde / Pictured Cliffs
Unit A, Section 5, T31N, R09W
Lat./Long. 36-55.87' / 107-47.82'
PC RC Workover Procedure 2/18/97

1. Hold safety meeting. Comply with all MOI, BLM and NMOCD rules and regulations. Dig flowback pit or set flowback tank. Install 1x400 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 $\pm 5876'$ 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 $\pm 5900'$. Blow hole clean with air/mist. Obtain pitot gauge and record on morning report. TOOH.
5. RIH and wireline set a 7" CIBP @ $\pm 4500'$. Load hole from surface with 2% KCL water.
6. Run CBL/CCL/GR from 4500' 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. TIH w/ 7" fullbore packer and $\pm 3000'$ of 2-3/8" tubing. Set packer @ $\pm 3000'$ and pressure test casing and CIBP to 3000 psi. Release packer and TOOH standing back tubing.
8. Perforate the Pictured Cliffs 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.
9. TIH w/ 7" fullbore packer and $\pm 3000'$ of 2-3/8" tubing. Set packer @ $\pm 3000'$.
10. **Maximum allowable treating pressure is 3000 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).
11. Release packer and TIH knocking balls off of perforations. TOOH laying down tubing.
12. TIH w/ 7" fullbore packer and $\pm 3000'$ of 3-1/2" N-80 frac string. Set packer @ $\pm 3000'$.
13. **Hold safety meeting. Maximum allowable surface treating pressure is 5000 psi. (At static conditions, maximum allowable surface treating pressure is 3000 psi.)**

Pressure test surface lines to 6000 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 ± 100 m lbs of sand tagged w/ Iridium. (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%.

14. 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.
15. Release packer and TOOH laying down 3-1/2" frac string.
16. TIH w/ 6-1/4" bit on 2-3/8" tubing and CO to CIBP 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.)
17. Drill up CIBP set @ $\pm 4500'$ and CO to PBTD (5900'). 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.
18. When sand has diminished, TOOH.
19. RU wireline company. Run After Frac GR from $\pm 4500'$ to top of tracer activity. RD wireline.
20. 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 ($\pm 5900'$). Land tubing \pm one joint above bottom Mesaverde perforation (5896').
21. 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: M.E. Lutey
Production Engineer

Approval: _____
Northwest Basin Team Leader

Approval: _____
Drilling Superintendent

Contacts:

Engineers:

Mary Ellen Lutey
Office - (599-4052)
Home - (325-9387)
Pager - (324-2671)

Lori Lantz
Office - (599-4024)
Home - (324-0692)

Frac Consultants:

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

Mike Martinez
Pager - (599-7429)
Mobile - (860-7518)
Home - (327-6161)

San Juan 32-9 Unit #24 Unit A, Sec. 5, T31N, R9W

<u>Location:</u> 990' FNL, 990' FEL San Juan County, NM	<u>Latitude:</u> 36-55.87' <u>Longitude:</u> -107-47.82'
<u>Current Field:</u> Blanco Mesaverde	<u>Logs Run:</u> GRI; TS
<u>Spud:</u> 6/ 2/54	<u>Completed:</u> 7/ 5/54
<u>Elev GL:</u> 6694'	<u>Elev KB:</u>
<u>TD:</u> 5945'	<u>PBTD:</u> 5900

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"	25.4#	SW	182'	125 sx	To surface
8-3/4"	7"	20# & 23#	K-55	5400'	500 sx	3920' (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>
6-3/4"	5-1/2"	15.5#	J-55 liner	5305'-5941'	50 sx	5520' (TS)

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	5876'	190		
					Baker EGJ Packer	5392'
					Seating Nipple	5841'

FORMATION TOPS:

Ojo Alamo	2805'	Pictured Cliffs	3530'	Pt Lookout	5792'
Kirtland	—	Cliffhouse	5400'	Gallup	—
Fruitland	3204'	Menefee	5493'	Dakota	—

Completions:

Point Lookout

Perf: 5834'-5896'

Frac'd w/17,100# sand and 25,326 gal water; Refrac'd w/40,000# sand and 27,100 gal water

Cliff House

Perf: 5462'-5556'

Frac'd w/51,000# sand and 45,360 gal water

Cementing Information

9-5/8" csg: 125 sx reg cmt

7" csg: 250 sx Pozmix, 250 sx reg cmt, 1/2# Flocele/sx & 4% gel

5-1/2" liner: 25 sx reg cmt and 25 sx Pozmix; SQ 100 sx cmt @ 1620'

Workover History:

2/15/56 Ran liner; DM retainer @ 5280'. SQ w/100 sx in 2 stages. Perfed/frac'd Point Lookout & Cliff House formations.

11/09/63 Ran casing corrosion log & located hole; SQ w/70 sx in formation & 30 sx in casing w/reg 2% CaCl₂, .25 Flocele/sx cmt. Baker Mdl EGJ Packer set @ 5392' & seating nipple @ 5841'.

MEL:plh 3/19/97

SAN JUAN 32-9 UNIT #24

BLANCO MESAVERDE

AS OF 7/08/96

990' FNL, 990' FEL

SEC 5, T31N, R09W, SAN JUAN COUNTY, NM

