

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

## Sundry Notices and Reports on Wells

98 DEC -7 PM 1:32

070 FARMINGTON, NM

## 1. Type of Well

GAS

## Lease Number

SF-078386

## 6. If Indian, All. or

Tribe Name

## 2. Name of Operator

**BURLINGTON  
RESOURCES**

OIL &amp; GAS COMPANY

## 7. Unit Agreement Name

San Juan 32-9 Unit

## 3. Address &amp; Phone No. of Operator

PO Box 4289, Farmington, NM 87499 (505) 326-9700

## 8. Well Name &amp; Number

San Juan 32-9 U#114

## 9. API Well No.

30-045-28988

## 4. Location of Well, Footage, Sec., T, R, M

1005' FNL 1605' FEL, Sec. 17, T-31-N, R-9-W, NMPM

## 10. Field and Pool

Blanco Pictured Cliffs

## 11. County and State

San Juan 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 plug back the subject well to the Pictured Cliffs formation according to the attached procedure and wellbore diagram. The Dakota formation will be plugged and abandoned.

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

Signed *Duane W. Spencer* (MQ) Title Regulatory Administrator Date 12/3/98

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title

Date

DEC - 9 1998

CONDITION OF APPROVAL, if any:

Title 18 U.S.C. Section 1001 makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

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

Form C-10  
Revised February 21, 1993

Instructions on back  
Submit to Appropriate District Office  
State Lease - 4 Copies  
Fee Lease - 3 Copies

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

98 DEC -7 PM 1:32

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-045-28988		2 Pool Code 72359		3 Pool Name Blanco Pictured Cliffs	
4 Property Code 7473		5 Property Name SAN JUAN 32-9 UNIT			6 Well Number 114
7 GRID No. 14538		8 Operator Name BURLINGTON RESOURCES OIL & GAS COMPANY			9 Elevation 6528'

10 Surface Location

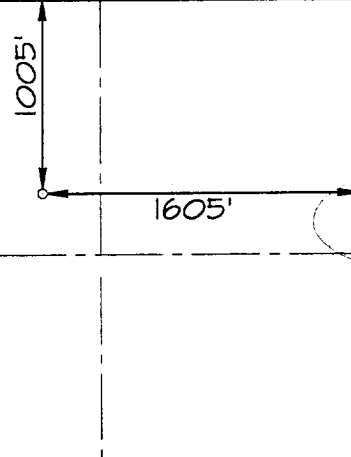
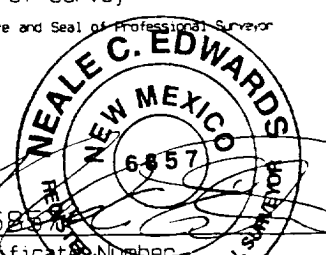
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	17	31N	3W		1005	NORTH	1605	EAST	SAN JUAN

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 160	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 DATED 4-6-93 BY GARY D. VANN.			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	
17			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.	
			DECEMBER 2, 1998 Date of Survey Signature and Seal of Professional Surveyor  Certification Number	

**San Juan 32-9 Unit #114**  
**1005' FNL, 1605' FEL**  
**Unit B, Sec. 17, T-31N R-9W**  
**San Juan County, New Mexico**  
**KB: 6642' GR: 6628'**  
**LAT: 36' 54.1° LONG: 107' 48°**

**Summary:**

In 1993, Burlington granted Amoco designation of agent to drill the subject well to the Dakota. The Dakota was never produced, and since that time Burlington Resources has resumed operatorship. The subject well will be completed in the Pictured Cliffs formation, and the Dakota will be plugged to satisfy a BLM demand. Since Burlington Resources has zero interest in the Pictured Cliffs formation, Amoco designed the stimulation. As per Amoco's design, the Pictured Cliffs will be completed with 75,140# of 16/30 sand and 50,240 gal of 70Q N<sub>2</sub> foamed 25# linear guar gel.

- Comply with all NMOCD, BLM, and BR regulations. Conduct daily safety meetings for all personnel on location. Notify BR regulatory (Peggy Bradfield 326-9727) and the appropriate Regulatory Agency prior to pumping any cement job. If an unplanned cement job is required, approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims. Allow adequate notice prior to the pump time for the Agency to witness the cementing operation.
- Inspect location and wellhead and install rig anchors prior to rig move.
- Construct blow pit.

**Procedure:**

1. MOL, hold safety meeting, and RU completion rig. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. Blow well down and kill well with water if necessary. ND well head and NU BOP, stripping head, and blooie line. Set three (3) 400 bbl frac tanks. Fill with 2% KCl water. Filter if necessary.
2. TOOH w/ 255 jts of 2-3/8" 4.7# J-55 tubing. Visually inspect tubing and lay down any bad joints.
3. TIH w/ 4-1/2" cement retainer on 2-3/8" tubing and set retainer at ~~7898'~~ <sup>7898'</sup>. Pick up tubing to test position and test tubing to 4000 psi. Sting back into retainer. Establish an injection rate and squeeze DK perfs w/ 27 sx class G cement. This will fill inside the 4-1/2" casing from 8072' to 7898' w/ 100% excess cement. Sting out and spot 5 sx cement on top of the cement retainer @ 7898'. Pull 1 stand and reverse out cement. TOH.
4. RU wireline. Run CBL w/ 1000 psi from 3,900' (base of 9-5/8" casing) to 2,800' or to TOC. (Estimated TOC from TS is 3250'). Hot Shot log to Michele Quisel and to Drilling to determine if squeeze is necessary. If squeeze is not necessary (squeeze not necessary if TOC is 3300' or higher), set CIBP @ 3600' and go to step 8. If squeeze is necessary test casing to max squeeze pressure of 2000 psi.
5. Perf two squeeze holes at approximately ~3410' (w/ gun type and charge size to be determined). RD wireline. Establish circulation from surface.
6. TIH w/ 7" cement retainer on 2-3/8" tubing and set retainer at ~3400'. Establish an injection rate of 3-4 bpm. When full returns are established to surface, squeeze w/ approximately 455 sx of 50/50 POZ cement w/ 2% gel, enough cement to fill the annulus between the 7" casing and the 9-5/8" casing from the squeeze perfs to surface w/ 10% excess cement. When cement is returned to surface, close casing valve and sting out of cement retainer. Reverse out cement. TOOH. WOC 12 hrs.
7. TIH w/ 6-1/4" bit on 2-3/8" tubing and DO cement retainer @ ~3400'. TOOH. RU wireline. Run in w/ 7" CIBP and set @ 3600'.

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8. RU stimulation company. Pressure test lines to 4500 psi. Pressure test casing to **3450 psi (Max Pressure)**.

9. RU wireline. Perf w/ 4" HSC, 2 SPF, 120 Phasing, 19.5 gm charges, 13.13 TTP, 0.34 EHD :

**3529', 26', 22', 18', 14', 10', 06', 3493', 90', 87', 83', 79', 75', 71', 67', 63', 59', 55', 53'**

Correlate to attached log. For a total of 38 holes. RD wireline.

10. Hold pre job safety meeting. Pressure test lines to 4500 psi. Breakdown and balloff perfs w/ 1500 gal of 15% HCL acid\* and 57 RCN 7/8" 1.3 SG ball sealers. **Max Pressure is 3450 psi.** Monitor 9-5/8" annulus.

\*Acid should contain the following additives per 1000 gal:

2 gal CI-22	corrosion inhibitor
5 gal Ferrotrol-300L	iron control
1 gal Flo-back 20	surfactant
0.5 gal Clay Master-5C	clay control

RU wireline. Run in w/ 7" junk basket and retrieve balls. Record number of hits and balls recovered.

Fracture stimulate in 1.0 to 4.0 ppg stages at 40 BPM constant downhole rate with 50,240 gal of 70 Q foamed 25# linear guar gel and 75,140# 16/30 sand. Frac to be tagged w/ 3 RA Tracers. **Max Pressure is 3450 psi.** When sand is at the hopper and the concentration begins to drop, call flush. Flush to 100 ft above top perf (5549 gals). Treat per the following schedule:


Stage	Sand Conc. (ppg)	Sand Mesh	Stage Sand Volume (lbs)	Clean Foam Volume (Gal)	Clean Gel Volume (Gal)	Nitrogen Rate (scf/min)	Stage N2 (mscf)
Pad	0		0	15,001	4,500	20,052	179
2	1	16/30	5,040	5,040	1,512	19,177	60
3	1.75	16/30	8,750	5,000	1,500	18,570	60
4	2.5	16/30	15,000	6,000	1,800	18,000	71
5	3	16/30	18,000	6,000	1,800	17,639	71
6	3.5	16/30	15,750	4,500	1,350	17,292	54
7	4	16/30	12,600	3,150	945	16,958	37
Flush			0	5,549	2,774	14,323	47
<b>Totals</b>			<b>75,140</b>	<b>50,240</b>	<b>16,182</b>	<b>15,779</b>	<b>580</b>

Treat frac fluid with the following additives per 1000 gallons:


LGC-8	6.00 gallons	(guar liquid gel concentrate)
HC-2	7-10 gallons	(foamer/surfactant)
BE-6	0.19 pounds	(bactericide)
Clay Fix II	1.00 gallons	(clay control)
Sand Wedge	0.18 gals per 100 lbs of sand	(proppant flow back control)

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11. Shut well in after frac and record ISIP, 5 minute, 10 minute, and 15 minute pressures. RD stimulation company. Leave well shut in for 1 hour before beginning flow back. Open well to pit in accordance to flowback schedule list on the attached page. Continue flowing back well until fluid returns are negligible. Take pitot gauges when possible.
12. TIH w/ 6-1/4" bit on 2-3/8" tubing and CO to 3600'. TOOH.
13. TIH w/ one joint of 2-3/8" 4.7# J-55 tubing w/ expendable check, seating nipple, then the remaining 2-3/8" production tubing. Rabbit tubing. Land tubing @  $\pm$  3520'.
14. ND BOP and NU wellhead. Pump off expendable check. RDMO.

Approve:  11/30/98  
Team Leader

Approve:

 11/30/98  
Drilling Superintendent

Recommend:  11/30/98  
Production Engineer

**VENDORS:**

Wireline:	Blue Jet	325-5584
Stimulation:	Halliburton	325-5096
RA Tag	Pro-Technics	326-7133

Michele Quisel

Home 564-9097

Office 324-6162

Pager 326-8196

# San Juan 32-9 Unit #114

1005' FNL. 1605' FEL

Unit B Sec. 17, T-31 R-9W

San Juan County, NM

KB 6642

GL 6628

13-3/8" 61 #  
560 sks TOC  
J-55  
circ 87 bbls

12-1/4" Hole  
9-5/8" 36#  
Casing J-55  
1st Stage 353 sks  
2nd Stage: 1057 sks  
TOC  
circ 62 bbls to surf

8-3/4" Hole  
7" 23# J-55  
835 sks TOC ~3250'

TOC 7686'

6-1/4" Hole  
4-1/2" 11.6#  
N-80 Liner  
30 BBLS

Tubing: 2-3/8"  
4.7# J-55 EUE  
@ 7950'

8329

Current

405'

TOC = ~3250'

3880'

Dakota:

7948-7851'  
8072-8034'

Frac w/ 35,00 gal gel water pac, 10,000 gal gel w/ 4000# 100 mesh sand.

41,481 gals gel & 77,924# 20/40 sand

Cement Retainer

8250' w/ 100 sx cement

8274-8276

## Formation Tops

Ojo Alamo	2067
Kirtland	2167
Fruitland Coal	3042
Pictured Cliffs	3452
Lewis	3568
Cliff House	5282
Menefee	5377
Point Lookout	5676
Mancos	6087
Gallop	7108
Greenhorn	7707
Graneros	7766
Dakota	7830

Proposed PC Perfs

3453'-3529'

Frac'd w/ 75,140# sand and 70 Q Foam

CIBP @ 3600'

Cement Retainer @ 7898'

Proposed

TD = 8332

PBTD = 8250

TD = 8332

PBTD = 7898

MSQ

11/18/98