

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
BLM

Sundry Notices and Reports on Wells

99 JUL 15 PM 2:18  
5. Lease Number  
070 F-079002

1. Type of Well  
GAS

6. If Indian All. or  
Tribe Name

7. Unit Agreement Name

2. Name of Operator

**BURLINGTON  
RESOURCES** OIL & GAS COMPANY

8. Well Name & Number  
San Juan 30-6 Unit  
San Juan 30-6 U #88A

3. Address & Phone No. of Operator

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

9. API Well No.  
30-039-22211

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

1535' FNL, 1660' FWL, Sec.7, T-30-N, R-6-W, NMPM

10. Field and Pool  
WC:30N6W7F Pict.Cliffs/  
Blanco Mesaverde  
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

<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 type="checkbox"/> Other -	

13. Describe Proposed or Completed Operations

It is intended to recomplate the subject well in the Pictured Cliffs formation according to the attached procedure and wellbore diagram. The well will then be dualled.

RECEIVED  
JUL 29 1999  
OIL CON. DIV.  
DIST. 3

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

Signed [Signature] (JLDOpps) Title Regulatory Administrator Date 7/12/99  
no

(This space for Federal or State Office use)  
APPROVED BY /s/ Duane W. Spencer Title Team Lead, Petroleum Management Date JUL 27 1999  
CONDITION OF APPROVAL, if any:

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

4

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

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

99 JUL 15 PM 2:18

AMENDED REPORT

070 E. BRIDGEMAN, NM

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-039-22211		2 Pool Code 96954/172319		3 Pool Name WC:30N6W7F Pict.Cliffs/Blanco Mesaverde	
4 Property Code 7469		5 Property Name San Juan 30-6 Unit			6 Well Number 88A
7 OGRID No. 14538		8 Operator Name Burlington Resources Oil & Gas Company			9 Elevation 6451 GR

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
F	7	30N	6W		1535	North	1660	West	RA

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 - 160 MV-W/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 1535 1660 Original Plat from Fred B. Kerr, Jr. 8-6-79	17 OPERATOR CERTIFICATION	
	I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
	Signature  Printed Name Peggy Bradfield Title Regulatory Administrator Date 7-12-99	
	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.	
Date of Survey Signature and Seal of Professional Surveyer:		
Certificate Number		

BRG

**San Juan 30-6 Unit #88A**  
**Pictured Cliffs Recompletion Procedure**  
**Unit F, Section 7, T30N, R06W**  
**Lat: 36°- 49.80468'/Long: 107° - 30.40926'**

*This well is currently completed in the Mesaverde. It is intended to recomplete the Pictured Cliffs interval and produce the well as a dual with a production packer set in the 7" casing, thereby producing the Pictured Cliffs up the annulus. The Pictured Cliffs will be completed in a single stage with 125,000 lbs 20/40 sand in a 70Q 20lb linear gel.*

**PRE RIG WORK**

1. RU Halliburton mast truck. RU Halliburton logging truck and equipment.
2. Close master valve. RU lubricator. Open master valve. Flow well to sales line.
3. Lower logging tool through tubing to zone of interest. Correlate logged GR to openhole GR. Adjust depth as necessary.
4. Run GR-TMDL across Pictured Cliffs interval from 3600-2600'.
5. Pull logging tool into lubricator. Close master valve. RD lubricator. Open master valve. Flow well to sales line.
6. RD logging truck. RD mast truck. Move off of location.

**RIG WORK**

7. Inspect location and test rig anchors. Comply with all NMOCD, BLM, Forestry & BR rules and regulations. Dig flowback pit or set flowback tank. Haul to location 3600', 1-1/2", 2.76 lb/ft, IJ tubing, 2 jts 2-7/8" N-80 tubing and 3-400 bbl frac tanks.
8. MIRU. Fill 400 bbl tanks with 2% KCL water. Run fluid tests on water. Filter water based upon stimulation company water analysis. Record and report SI pressures on tubing, casing and bradenhead. Lay blowdown line. Blow well down and kill with 2% KCL water as necessary. ND WH and NU BOP with flow tee and stripping head. Test operation of rams. NU blooie line and 2-7/8" relief line. **Service wellhead for dual well service.**
9. PU on 2-3/8" Mesaverde production string. Lower end of tubing to PBSD. Tag and record PBSD in DFW. TOOH with 2-3/8" Mesaverde production string set at 6039'. Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.
10. Run a gauge ring for 7", 20 lb/ft, J-55 casing to 4-1/2" liner top at 3600'. ND wireline company. If unable to run gauge ring to 4-1/2" liner top, PU 6-3/4" bit and 7", 20 lb/ft, J-55 casing scraper and round trip to liner top.
11. TIH with 7" tubing set RBP on 2-3/8" tubing. Set RBP at ~3550'. Release from RBP and fill casing with approximately 145 bbls 2% KCL. PUH to 3470'. Spot 5 bbls 15% HCL acid across Pictured Cliffs perforation interval (3410-3470'). TOOH.

San Juan 30-6 Unit #88A  
 1999 Discretionary Pictured Cliffs Recompletion

All acid on this well to contain the following additives per 1000 gals.

2 gal	HAI-81M	Corrosion inhibitor
5 gal	FE-1A	Iron Control
5 gal	FE-2A	Iron Control
1 gal	SSO-21	Surfactant
1 gal	ClaSta XP	Clay control

12. NU wireline company. Run GR-CBL-CCL from PBDT to 200' above TOC behind 7" casing. Evaluate CBL. Good cement bond must exist from PBDT to 3300' to continue with the procedure.
13. TIH with 7" packer and 2 joints of 2-7/8" tubing for wellhead isolation. Set packer and pressure test casing to 3000 psi. Bleed off pressure. Release packer and TOOH.
14. Contact Jennifer L. Dobson for Pictured Cliffs perforation depths.
15. NU wireline. Perforate Pictured Cliffs with 28 holes using select fire HSC guns loaded with Owens HSC-3125 306T 12 gram charges set at 2 SPF (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). ND wireline company.
16. TIH with 7" packer and 2-3/8" tubing. Set packer at 3200'.
17. Pressure test surface lines to 4600 psi. Hold tailgate safety meeting. Establish an injection rate into perms with 2% KCL water observing a maximum pressure of 3600 psi. Once pressure has broken back and stabilized, shut pumps down and obtain an ISIP. Continue to breakdown Pictured Cliff perforations with 25 bbls 15% HCL. Drop 56 RCN 7/8" 1.3 specific gravity balls evenly spaced. Attempt to ball off to 3000 psi surface pressure. Use the same additives as in Step 11. ND stimulation company.
18. Bleed off pressure. Release packer. Lower packer to 3480' to knock balls off of perforations. TOOH. Stand back 2-3/8" tubing.
19. TIH with 7" packer and 2 jts 2-7/8" tubing for wellhead isolation. Set packer.
20. **Maximum surface treating pressure is 3000 psi. Fracture stimulate the Pictured Cliffs with 125,000 lbs 20/40 Arizona sand in 1200 bbls 70Q 20 lb linear gel foam at 35 BPM constant downhole rate. Maintain a bottom hole frac gradient of 0.65 psi/ft throughout job. Tag sand with 3 radioactive tracers. When sand is in hopper and the concentration begins to drop, call flush. Maintain previous stage's slurry and N<sub>2</sub> rates. Quick flush to 100 ft above top perforation. Average surface treating pressure will be 2,359 psi. Perforation and casing friction is estimated to be 594 psi. Treat per the following schedule:**

Stage	Downhole Foam Volume (gals)	Clean Gel Volume (gals)	N2 Volume (MSCF)	Sand Volume (lbs)
Pad	5,000	1,500	64.1	---
1.0 ppg	7,500	2,250	96.0	7,500
2.0 ppg	11,875	3,563	151.9	23,750
3.0 ppg	11,250	3,375	143.8	33,750
4.0 ppg	15,000	4,500	191.7	60,000
Flush (100' above top perf)	5,529	2,256	59.9	0
<b>Totals</b>	<b>56,154</b>	<b>17,443</b>	<b>707</b>	<b>125,000</b>

Record ISIP, 5 minute, 10 minute and 15 minute SIP. RD stimulation company.

San Juan 30-6 Unit #88A  
1999 Discretionary Pictured Cliffs Recompletion

21. RU flowback line and choke manifold. Flow well back after 30 minutes to 1 hour. Open well to pit, starting with a 8/64" choke. If minimal sand is being produced, change to a larger choke size (10/64"). If choke plugs off, shut well in and remove obstruction from choke and return to flowback. Continue increasing choke size and cleaning well up until fluid returns are negligible.
22. When pressures allow, release packer and TOOH. LD 2-7/8" tubing and packer.
23. TIH with 7" RBP retrieving head on 2-3/8" tubing and clean out to RBP at 3550'. Alternate between natural flow and blow stages for clean up. **When water rates are 3 BPH, obtain a Pictured Cliffs pitot gauge.** When sand production allows, latch on to RBP. Release RBP and allow pressures to equalize. TOOH with RBP and LD.
24. If fill was encountered in Step 9, TIH with 3-7/8" bit on 2-3/8" and clean out any possible fill to PBDT at 6101'. TOOH.
25. TIH with an expendable check, one 2-3/8" joint, standard SN, approximately 80 joints of 2-3/8" EUE tubing, Baker 7" R-3 production packer with 1.9 ID and remaining 2-3/8" EUE tubing. Broach tubing. Set packer at approximately 3550'. Land end of 2-3/8" tubing as close to 6039' as possible. PU and TIH with one joint of 1-1/2", 2.76#, IJ tubing bull plugged with a perforated sub, aluminum pump off plug, and 1.375" seating nipple. TIH with remaining 1-1/2", 2.76#, IJ tubing. Broach tubing while RIH. Land 1-1/2" tubing at bottom perforation.
26. ND BOP. NU dual wellhead and manifold assembly. Ensure all connections on wellhead are tight. Pump off 2-3/8" expendable check. Flow well up 2-3/8" tubing. Pump off 1-1/2" expendable check. Flow well up 1-1/2" tubing. Shut in both strings and monitor pressure for packer leakage test. Open MV side and obtain stabilized pitot gauges at 15, 30, 45, and 60 min up the MV tubing string. Monitor Pictured Cliffs side for pressure communication. Open Pictured Cliffs side and obtain stabilized pitot gauges at 15, 30, 45, and 60 min up the Pictured Cliffs tubing string. Record on DFW report. RDMO. Contact Production Operations for well tie-in.
27. RU Protechnics. Run After-Frac log across Pictured Cliffs (3410-3470') through the Mesaverde 2-3/8" production string. RD Pro-Technics.

Recommended:   
Production Engineer

Approved: \_\_\_\_\_  
Drilling Superintendent

Approved:  7/6/99  
Team Leader

Contact:

Jennifer Dobson      599-4026 (work)      564-3244 (home)      324-2461 (pager)

**San Juan 30-6 Unit #88A**

Unit F, Section 7, T30N, R6W  
 Rio Arriba County, NM  
 Lat: 36° - 49.80468'/Long: 107° - 30.40926'

**Current Schematic**

**Proposed Schematic**

