

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

1600' FSL, 990' FEL, Sec.15, T-30-N, R-6-W, NMPM

I

5. Lease Number
SF-080713B6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

San Juan 30-6 Unit

8. Well Name & Number

San Juan 30-6 U #45A

9. API Well No.

30-039-21937

10. Field and Pool

WC:30N6W16I 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

☒ Notice of Intent☐ Subsequent Report☐ Final Abandonment

Type of Action

☐ Abandonment☒ Recompletion☐ Plugging Back☐ Casing Repair☐ Altering Casing☐ Other -☐ Change of Plans☐ New Construction☐ Non-Routine Fracturing☐ Water Shut off☐ Conversion to Injection

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

O/O FORMATION, NM

59 JUL 15 PM 2:13

RECEIVED
RLM

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

Signed *Deane W. Spencer* (JLDOpps) Title Regulatory Administrator Date 7/12/99

(This space for Federal or State Office use)

APPROVED BY *AS/Deane W. Spencer* Title Team Lead, Petroleum Management Date JUL 2, 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.

NMOCB

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

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

070 FARMINGTON, NM
JUL 15 PM 2:46
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-21937	² Pool Code 76953 / 72319	³ Pool Name WC:30N6W15I Pict.Cliffs/Blanco Mesaverde
⁴ Property Code 7469	⁵ Property Name San Juan 30-6 Unit	⁶ Well Number 45A
⁷ OGRID No. 14538	⁸ Operator Name Burlington Resources Oil & Gas Company	⁹ Elevation 6399 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
I	15	30N	6W		1600	South	990	East	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 160 E/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	Original plat from	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief <i>Peggy Bradfield</i> Signature Peggy Bradfield Printed Name Regulatory Administrator Title 7-2-99 Date
	Fred B. Kerr Jr. 10-3-78	
		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. 990 1600 Date of Survey Signature and Seal of Professional Surveyer: Certificate Number

OKQ

San Juan 30-6 Unit #45A
Pictured Cliffs Recompletion Procedure
Unit I, Section 15, T30N, R06W
Lat: 36° - 48.57786'/Long: 107° - 26.64552'

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.

1. 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 3400', 1-1/2", 2.76 lb/ft, IJ tubing, 2 jts 2-7/8" N-80 tubing and 3-400 bbl frac tanks.
2. 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 service.**
3. PU on 2-3/8" Mesaverde production string. Lower end of tubing to PBTD. Tag and record PBTD in DFW. TOOH with 2-3/8" Mesaverde production string set at 5905'. Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.
4. Run a gauge ring for 7", 20 lb/ft, J-55 casing to 4-1/2" liner top at 3469'. 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.
5. TIH with 7" tubing set RBP on 2-3/8" tubing. Set RBP at ~3400'. Release from RBP and fill casing with approximately 135 bbls 2% KCL. PUH to 3335'. Spot 7 bbls 15% HCL acid across Pictured Cliffs perforation interval (3200-3334'). TOOH.

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

6. NU wireline company. Run GR-CBL-CCL from PBTD to 200' above TOC behind 7" casing. Evaluate CBL. Good cement bond must exist from PBTD to 3100' to continue with the procedure.
7. 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.
8. NU wireline. Perforate Pictured Cliffs with 28 holes using select fire HSC guns loaded with Owens HSC-3125 306T 12 gram charges set at 1 SPF (Av. perf diameter - 0.30", Av. pen. -17.48" in concrete). ND wireline company.

**3208', 3209', 3210', 3212', 3214', 3215', 3216', 3218', 3219', 3220', 3224',
3230', 3233', 3307', 3308', 3321', 3322', 3323', 3324', 3330', 3331', 3332',
3333', 3334', 3335' (25 holes total)**

9. TIH with 7" packer and 2-3/8" tubing. Set packer at 3050'.
10. Pressure test surface lines to 4600 psi. Hold tailgate safety meeting. Establish an injection rate into perfs 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 5. ND stimulation company.
11. Bleed off pressure. Release packer. Lower packer to 3350' to knock balls off of perforations. TOOH. Stand back 2-3/8" tubing.
12. TIH with 7" packer and 2 jts 2-7/8" tubing for wellhead isolation. Set packer.
13. **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 N₂ rates. Quick flush to 100 ft above top perforation. Average surface treating pressure will be 2,152 psi. Perforation and casing friction is estimated to be 492 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	61.2	---
1.0 ppg	7,500	2,250	91.7	7,500
2.0 ppg	11,875	3,563	145.1	23,750
3.0 ppg	11,250	3,375	137.3	33,750
4.0 ppg	15,000	4,500	183.0	60,000
Flush (100' above top perf)	5,186	2,116	53.7	0
Totals	55,811	17,303	672	125,000

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

14. 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.
15. When pressures allow, release packer and TOOH. LD 2-7/8" tubing and packer.
16. TIH with 7" RBP retrieving head on 2-3/8" tubing and clean out to RBP at 3400'. 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.
17. If fill was encountered in Step 3, TIH with 3-7/8" bit on 2-3/8" and clean out any possible fill to PBTD at 5950'. TOOH.
18. TIH with an expendable check, one 2-3/8" joint, standard SN, approximately 81 joints of 2-3/8" EUE tubing, Baker 7", R-3 production packer with 1.9 ID and remaining 2-3/8" EUE

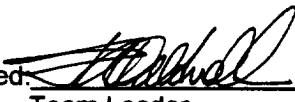
San Juan 30-6 Unit #45A
1999 Discretionary Pictured Cliffs Recompletion

tubing. Broach tubing. Set packer at approximately 3400'. Land end of 2-3/8" tubing as close to 5905' 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 3334'.

19. 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.
20. RU Protechnics. Run After-Frac log across Pictured Cliffs (3150-3350') through the Mesaverde 2-3/8" production string. RD Pro-Technics.

Recommended: 
Production Engineer

Approved: _____
Drilling Superintendent

Approved:  7/6/99
Team Leader

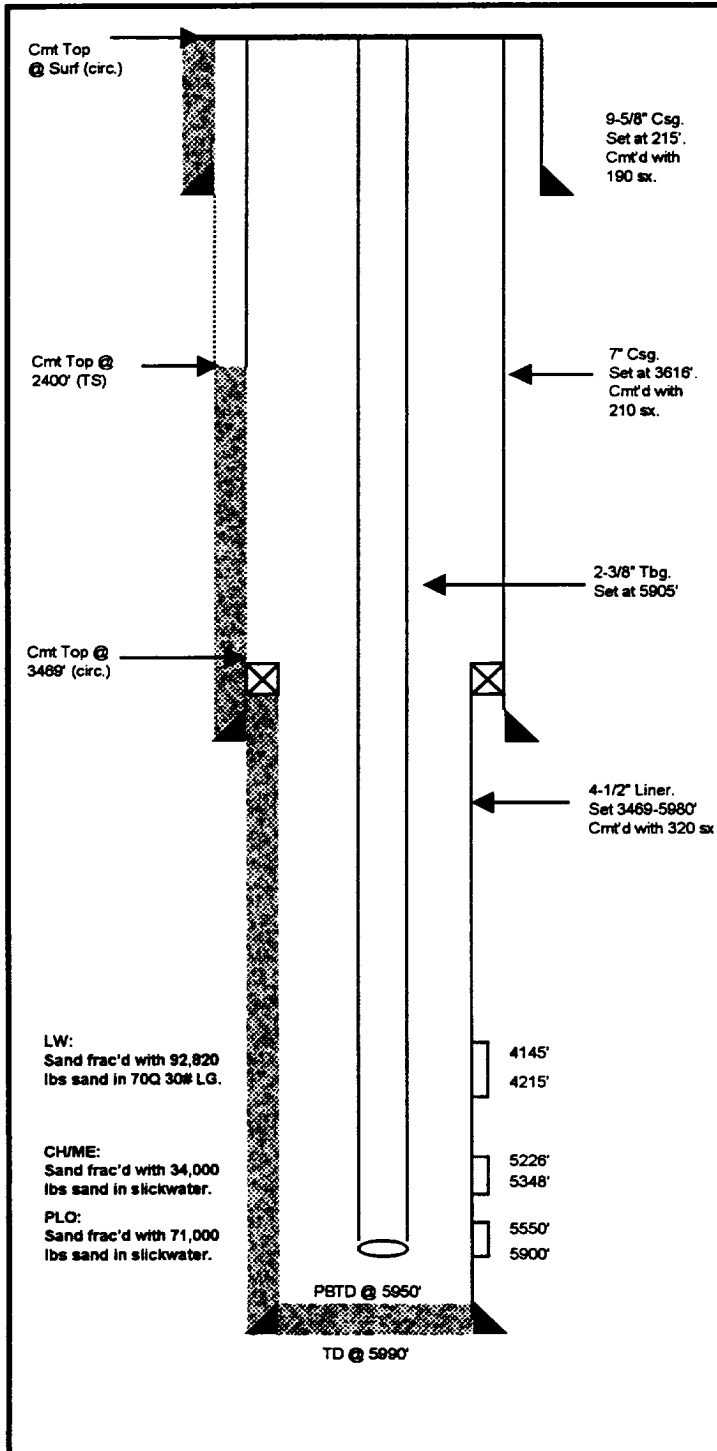
Contact:

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

San Juan 30-6 Unit #45A

Unit I, Section 15, T30N, R6W
Rio Arriba County, NM
Lat: 36° - 48.57786°/Long: 107° - 26.64552'

Current Schematic



Proposed Schematic

