

submitted in lieu of Form 3160-5

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) 326-9760

4. Location of Well, Footage, Sec., T, R, M
1500' FNL, 1600' FWL Sec.8, T-31-N, R-9-W, NMMPM

5. Lease Number
SF-078438

6. If Indian, All. or Tribe Name

7. Unit Agreement Name
San Juan 32-9 Unit

8. Well Name & Number
San Juan 32-9 U #17A

9. API Well No.
30-045-22893

10. Field and Pool
Blanco Mesaverde

11. County and State
San Juan Co, NM

RECEIVED
JUL - 6 1999
OIL CON. DIV.
DIST. 3

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 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 - Payadd	

13. Describe Proposed or Completed Operations

It is intended to add pay to the subject well according to the attached procedure and wellbore diagram.

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

Signed Wayne Townsend Title Regulatory Administrator Date 6/21/99

(This space for Federal or State Office use)

APPROVED BY WAYNE TOWNSEND Title PL EY. Date 7-1-99

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.

Q

San Juan 32-9 Unit #17A
Lewis Payadd Procedure
Unit F, Section 08, T-31N, R-9 W
Lat: 36° 54.9298' Long: 107° 48.3628'

This well is currently completed in the Cliff House, Menefee, and Point Lookout. It is intended to add the Lewis to the existing Mesaverde production. The Lewis will be sand fracture stimulated in two stages using 100,000 lbs 20/40 sand and 70Q 20 lb linear gel in each stage. Foam is to be used to limit fluid damage to the Lewis and aide in the flowback. The flowback choke schedule is to be used to ensure that proppant remain in the fractures.

- Comply with all BLM, NMOCD, and BR rules and regulations.
- Hold safety meetings.
- Place fire safety equipment in strategic locations.
- Inspect location and test rig anchors.
- Dig flowback pit or set flowback tank.

Equipment Needed:

- (4) Frac Tanks with 2% KCl water
- (2) 4-1/2" CIBP
- (1) 4-1/2" RBP
- (1) 4-1/2" Packer
- 3900' – 3-1/2" N-80 9.3#

PROCEDURE:

1. MIRU. Record and report SI pressures on tubing, casing, and brader head. Lay blowdown line and blow well down. Kill well with 2% KCl water. ND WH, NU BOP. Test and record operation of rams. NU blooie line and 2-7/8" relief line. Redress production wellhead as needed.
2. TOOH w/ 2-3/8" 4.7# J-55 tubing set at 6154' (SN @ 6124'). Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.
3. RU wireline. Run 4-1/2" gauge ring to 5100'. If ring tags up before 5100', TIH with 3-7/8" Bit, 4-1/2" 10.5# casing scraper on 2-3/8" tubing and CO to 5100'. TOOH. TIH with 4-1/2" CIBP and set CIBP @ ± 5100'. Load hole w/ 2% KCl water. TOOH.
4. Run GR-CBL-CCL w/ 1000 psi from 5100' to 3815' (TOL) correlate to old Induction-Gamma Ray Log. Contact Michele Quisel and Drilling to evaluate CBL.
5. TIH w/ 4-1/2" packer and 2-3/8" tubing. Set packer @ 3830'. Pressure test CIBP and casing to 3800 psi. Release packer and TOOH.

1st Stage Lewis:

6. Perforate Lower Lewis as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 1 SPF and 120° phasing (Avg. perf diameter – 0.30", Avg. penetration – 16.64" in concrete). Correlate to new GR-CBL-CCL.

- 4958' – 68',
- 4870' – 80',
- 4830' – 40',
- 4750' – 60,
- 4708' – 18'

For a total of 55 holes. RD wireline.

San Juan 32-9 Unit #17A
 Lewis Payadd Procedure
 Unit F, Section 08, T-31N, R-9 W
Lat: 36° 54.9298' Long: 107° 48.3628'

7. TIH with 4-1/2" RBP, on/off tool and 4-1/2" packer on 2-3/8" tubing.

Set RBP at RBP setting depth. PUH ± 10 ft and set Packer. RU stimulation company and pressure test RBP and lines to 3800 psi. Release packer, and reset packer at Packer Setting Depth. Breakdown perforations and establish an injection rate between 8 and 10 BPM with 200 gals of Acetic Acid + 5% NH₄Cl **. Breakdown to the **Max pressure of 3800 psi**. Release packer and RBP. Repeat for the remaining intervals.

** All Acid to contain the following additives/ 1000 gal:

1000 gal	10%	Acetic Acid
2 gal	MSA II	corrosion inhibitor
5%	NH ₄ CL	clay control

RBP Setting Depth	Packer Setting Depth	Perforation Intervals
5000	4930	4958-68
4910	4800	4870-80, 4830-40
4790	4670	4750-60, 4708-18

8. TOOH w/ RBP, Packer, and 2-3/8" tubing. PU and TIH w/ 4-1/2" packer, 2 joints 2-3/8" 4.7#, 2-3/8" X 3-1/2" N-80 crossover, and 3-1/2" 9.3# N-80 Frac String. Set Packer @ 3830', or where good cement dictates.
9. Pressure Test surface lines to 7000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand in 62,157 gals 70Q 20 lb linear gel at a **MAXIMUM RATE OF 40 BPM** in 1.0 to 4.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes**. Estimated friction pressure is 4500 psi at 40 BPM. **Maximum Surface Treating Pressure is 6000 psi**.

Stage	BH Sand Conc. ppg	Stage Sand lbs	BH Rate bpm	BH Foam Qual.	Clean Foam Volume gals	Clean Liquid Volume gals	Nitrogen Rate scf/min	Stage N2 mscf
Pad		0	40	80%	17,000	3,400	24,022	243.1
2	1	10,000	40	70%	10,000	2,000	20,102	83.3
3	2	20,000	40	70%	10,000	2,000	19,262	83.2
4	3	40,000	40	70%	13,333	2,667	18,489	110.9
5	4	30,000	40	70%	7,500	1,500	17,776	62.4
Flush		0	40	0%	4,324	4,324	0	0.0
		Total lbs.	Avg. Rate	Avg. Qual.	Total gallons	Total Gallons	Avg. N2 Rate	Total mscf
		100,000	40.0	60%	62,157	15,891	16,609	583

Slow rate during flush. Flush to top perf with KCl water. Record ISIP, 5, 10 and 15 minute shut-in pressures. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-flowbean or dual-choke manifold. Begin flowback when stimulation company is rigged down. Open well to pit in accordance to flowback schedule listed in the table below. Do not shut well in during flowback. When schedule dictates a larger choke size, open ball valve upstream of 2nd flowbean or adjustable choke and open adjustable choke or place correct size flowbean on manifold to pre-determined size listed in table and begin flowing through

San Juan 32-9 Unit #17A
 Lewis Payadd Procedure
 Unit F, Section 08, T-31N, R-9 W
Lat: 36° 54.9298' Long: 107° 48.3628'

adjustable choke or 2nd flowbean. Close ball valve upstream of positive flow bean and change out flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of 2nd flowbean or adjustable choke.

40+ hour Flowback

16/64" Choke	From Shut-in – Until 2/3 of flush volume has been recovered (Approximately 68 BBL.).
10/64" Choke	Approximately 3 hrs.
12/64" Choke	Approximately 3 hrs.
14/64" Choke	Approximately 3 hrs.
16/64" Choke	Approximately 4 hrs.
18/64" Choke	Approximately 4 hrs.
20/64" Choke	Approximately 4 hrs.
22/64" Choke	Approximately 4 hrs.
24/64" Choke	Approximately 4 hrs.
32/64" Choke	Approximately 5 hrs.
48/64" Choke	Approximately 5 hrs.

NOTE: Follow this schedule to utilize a 40+ hour flowback. If well begins to slug or make large amounts of sand to surface, drop to next lower choke size. If well begins to taper off in liquid production (mostly N₂), change to next larger choke size before time schedule dictates.

10. Release packer and TOOH. Stand back 3-1/2" frac string, 3-1/2" X 2-3/8" crossover, and 2-3/8" Frac String.
11. TIH w/ 4-1/2" CIBP, on/off tool and 4-1/2" packer on 2-3/8" tbg and set CIBP @ ± 4660'. PUH, set packer @ 3830', and pressure test CIBP to 3800 psi. Release packer and TOOH.
12. Perforate Upper Lewis as follows using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 1 SPF and 120° phasing (Avg. perf diameter – 0.30", Avg. penetration – 16.64" in concrete). Correlate to new GR-CBL-CCL.

4585' – 90',
4530' – 40',
4497' – 4507',
4465' – 75',
4350' – 60',
4335' – 40'

For a total of 56 holes. RD wireline.

13. TIH with 4-1/2" RBP, on/off tool and 4-1/2" packer on 2-3/8" tubing.

 Set RBP at RBP setting depth. PUH ± 10 ft and set Packer. RU stimulation company and pressure test RBP and lines to 3800 psi. Release packer, and reset packer at Packer Setting Depth. Breakdown perforations and establish an injection rate between 8 and 10 BPM with 200 gals of Acetic Acid + 5% NH₄Cl **. Breakdown to the **Max pressure of 3800 psi**. Release packer and RBP. Repeat for the remaining intervals.

San Juan 32-9 Unit #17A
 Lewis Payadd Procedure
 Unit F, Section 08, T-31N, R-9 W
 Lat: 36° 54.9298' Long: 107° 48.3628'

** All Acid to contain the following additives/ 1000 gal:

1000 gal	10%	Acetic Acid
2 gal	MSA II	corrosion inhibitor
5%	NH ₄ CL	clay contro

RBP Setting Depth	Packer Setting Depth	Perforation Intervals
4620	4560	4585-90
4570	4440	4530-40, 4497-4507, 4465-75
4390	4300	4350-60, 4335-40

14. TOOH w/ RBP, Packer, and 2-3/8" tubing and stand back. TIH w/ 4-1/2" packer, 2 joints 2-3/8" 4.7#, 2-3/8" N-80 Buttress X 3-1/2" N-80 crossover, and 3-1/2" 9.3# N-80 Frac String. Set Packer @ 3830', or where good cement dictates.
15. Pressure Test surface lines to 7000 psi. Fracture stimulate Upper Lewis with 100,000 lbs 20/40 sand in 60,755 gals 70Q 20 lb linear gel at a **MAXIMUM RATE OF 40 BPM** in 1.0 to 4.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes.** Estimated friction pressure is 4500 psi @ 40 BPM. **Maximum Surface Treating Pressure is 6000 psi.**

Stage	BH Sand Conc. ppg	Stage Sand lbs	BH Rate bpm	BH Foam Qual.	Clean Foam Volume gals	Clean Liquid Volume gals	Nitrogen Rate scf/min	Stage N2 mscf
Pad		0	40	80%	17,000	3,400	22,291	225.6
2	1	10,000	40	70%	10,000	2,000	18,654	77.3
3	2	20,000	40	70%	10,000	2,000	17,875	77.2
4	3	40,000	40	70%	13,333	2,667	17,158	102.9
5	4	30,000	40	70%	7,500	1,500	16,496	57.9
Flush		0	40	0%	2,922	2,922	0	0.0
		Total lbs.	Avg. Rate	Avg. Qual.	Total gallons	Total Gallons	Avg. N2 Rate	Total mscf
		100,000	40.0	60%	60,755	14,489	15,412	541

Slow rate during flush. Flush to top perf. Record ISIP, 5 minute, 10 minute, and 15 minute pressures. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-flowbean or dual-choke manifold. Begin flowback when stimulation company is rigged down. Open well to pit in accordance to flowback schedule listed in the table below. Do not shut well in during flowback. When schedule dictates a larger choke size, open ball valve upstream of 2nd flowbean or adjustable choke and open adjustable choke or place correct size flowbean on manifold to pre-determined size listed in table and begin flowing through adjustable choke or 2nd flowbean. Close ball valve upstream of positive flow bean and change out flow bean to next larger size in table. Open ball valve upstream of positive flow bean and begin flowing. Close ball valve upstream of 2nd flowbean or adjustable choke.

San Juan 32-9 Unit #17A

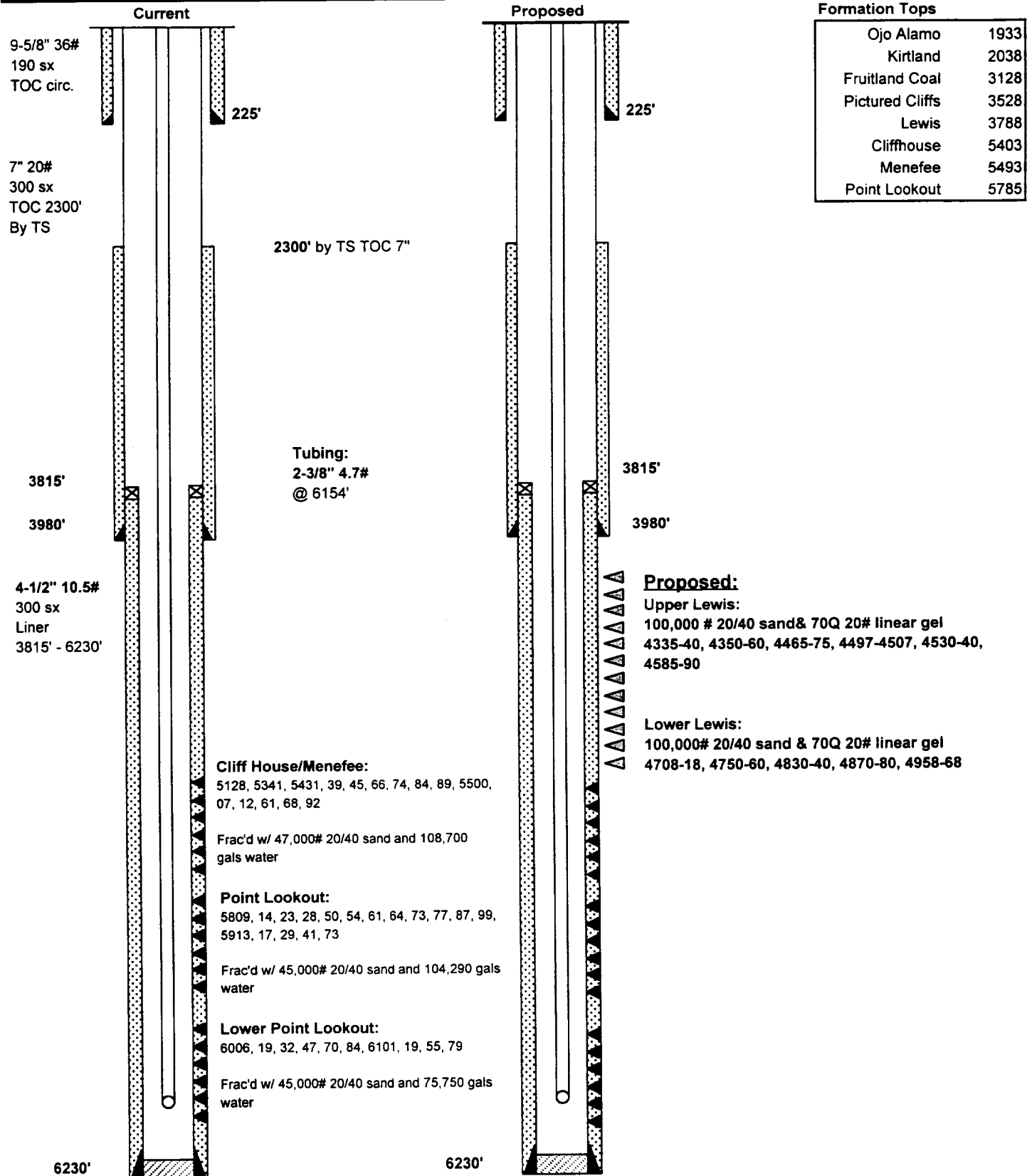
1500' FNL, 1600' FWL
 Unit F Sec. 08, T-31 R-09W
 San Juan County, New Mexico

KB 6701

GL 6695

Lat: 36° 54.9298'

Long: 107° 48.3628'



Formation Tops	
Ojo Alamo	1933
Kirtland	2038
Fruitland Coal	3128
Pictured Cliffs	3528
Lewis	3788
Cliffhouse	5403
Menefee	5493
Point Lookout	5785

Proposed:
 Upper Lewis:
 100,000 # 20/40 sand & 70Q 20# linear gel
 4335-40, 4350-60, 4465-75, 4497-4507, 4530-40,
 4585-90
 Lower Lewis:
 100,000# 20/40 sand & 70Q 20# linear gel
 4708-18, 4750-60, 4830-40, 4870-80, 4958-68

PBTD = 6211'
 TD = 6230'