

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

1650' FSL 990' FWL, Sec. 27, T-29-N, R-7-W, NMPM

5. Lease Number  
SF-078425

6. If Indian, All. or  
Tribe Name

7. Unit Agreement Name  
San Juan 29-7 Unit

8. Well Name & Number  
San Juan 29-7 U#59  
9. API Well No.  
30-039-07537

10. Field and Pool  
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 add Lewis pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED  
BLM  
98 DEC 15 PM 1:50  
070 FARMINGTON, NM

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

Signed [Signature] (JLD) Title Regulatory Administrator Date 12/14/98

TLW

(This space for Federal or State Office use)

APPROVED BY /s/ Duane W. Spencer

Title

Date

DEC 21 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.

NMOC

**San Juan 29-7 Unit #59**  
Lewis Pay Add Procedure  
Unit L, Section 27, T29N, R07W  
Lat: 36°- 41.64462'/Long: 107° – 33.80586'

***This well is currently completed in the Cliffhouse, Menefee, and Point Lookout intervals. It is intended to add the Lewis interval to this existing Mesaverde producer. The results of this payadd will be compared with a proposed Clear Frac and CO<sub>2</sub> frac in the same vicinity. The Lewis will be completed in a single stage with 200,000 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 3 jts 2-7/8" N-80 tubing, 2-7/8" X 3-1/2" N-80 crossover, 5000' 3-1/2" N-80 frac string, 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. Redress production wellhead as needed.
3. TOOH with 2-3/8" Mesaverde production string set at 5876'. Visually inspect tubing, note and report any corrosion and/or scale in/on tubing. Replace bad joints as needed.
4. PU and RIH with a 4-3/4" bit, 5-1/2" (15.5 lb/ft) casing scraper on the 2-3/8" tubing. Clean out to PBSD (~5952') with air/mist. TOOH.
5. TIH with 4-1/2" CIBP, packer and 2-3/8" tubing. Set CIBP at 5000'. Release packer from CIBP. Fill casing with ~200 bbls water. Set packer just above CIBP. Pressure test CIBP to 3600 psi. Bleed off pressure and release packer. PUH to 4900'. Spot 13 bbls 15% HCL. 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 PBSD to 3400'. Evaluate CBL. Tie into liner top at 3480' for correlation. Run GR-CNL. Good cement bond must exist from PBSD to 4250' to continue with the procedure. Hot shot or fax logs into J. L. Dobson.

**LEWIS:**

7. Contact J. L. Dobson at 599-4026 (work), 564-3244 (home), or 324-2461 (pager) for perforation depths.
8. NU wireline. Perforate Lewis with 25 holes using select fire HSC guns loaded with Owens HSC-3125 302T 10 gram charges set at 1 SPF (Av. perf diameter - 0.29", Av. pen. - 16.64" in concrete). ND wireline company.

9. PU and TIH with 5-1/2" packer, 3 joints 2-7/8" N-80 frac string, 2-7/8" X 3-1/2" N-80 crossover and the remaining 3-1/2" N-80 frac string. Set packer at 4250'.
10. RU stimulation company. Pressure test surface lines to 7500 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 Lewis perforations with 25 bbls 15% HCL. Drop 50 RCN 7/8" 1.3 specific gravity balls evenly spaced. Attempt to ball off to 3600 psi surface pressure. Use the same additives as in Step 6. ND stimulation company.
11. Bleed off pressure. Release packer. Lower packer to 4910' to knock balls off of perforations. PUH to 4250' and re-set 5-1/2" packer.
12. NU stimulation company. **Maximum surface treating pressure is 6500 psi.** Fracture stimulate the Lewis with 200,000 lbs 20/40 Arizona sand in 2175 bbls 70Q 20 lb linear gel at **40 BPM**. **If surface pressures allow, increase injection rate accordingly.** Average surface treating pressure will be 5,970 psi. Perforation and tubing friction is estimated to be 4,520 psi. Treat per the following schedule:

Stage	Downhole Foam Volume (gals)	Clean Gel Volume (gals)	N2 Volume (MSCF)	Sand Volume (lbs)
Pad	15,000	4,500	165.8	---
1.0 ppg	12,000	3,600	132.5	12,000
2.0 ppg	21,000	6,300	231.7	42,000
3.0 ppg	27,333	8,200	301.4	82,000
4.0 ppg	16,000	4,800	176.3	64,000
Flush (100' above top perf)	1,541	462	17.0	0
<b>Totals</b>	<b>92,874</b>	<b>27,862</b>	<b>1,025</b>	<b>200,000</b>

Cut rate throughout flush as pressure allows. Record ISIP, 5 minute, 10 minute and 15 minute SIP. RD stimulation company.

13. Flow well back after 30 minutes to 1 hour through a choke manifold. Open well to pit, starting with a 10/64" choke. If minimal sand is being produced, change to a larger choke size (16/64"). 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.
14. When pressures allow, release packer and TOOH. LD 3-1/2" frac string, 3-1/2" X 2-7/8" N-80 crossover, 2-7/8" frac string and 5-1/2" packer.
15. TIH with 4-3/4" bit on 2-3/8" tubing and clean out to CIBP at 5000'. Alternate between natural flow and blow stages for clean up. **When water rates are 5 BPH, obtain a Lewis pitot gauge.** Drill out CIBP at 5000'. Use a 10-12 BPH mist rate while drilling CIBP.
16. Clean out to PBTD at 5952'. TOOH.
17. TIH with an expendable check, one 2-3/8" joint, standard SN and remaining 2-3/8" tubing. Broach tubing while running in hole. CO with air/mist to PBTD again, if necessary. **Obtain final Lewis/Cliffhouse/Menefee/Point Lookout pitot gauge.** Land tubing at 5914'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

San Juan 29-7 Unit #59  
1999 Discretionary Lewis Pay Add

Recommended: J. L. Dobson  
Production Engineer

Approved: [Signature] 12/10/98  
Drilling Superintendent

Approved: [Signature] 11/24/98  
Team Leader

Contact:

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