

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

1185' FNL, 85' FEL, Sec. 9, T-27-N, R-5-W, NMPM

5. Lease Number

SF-079391

6. If Indian, All. or
Tribe Name

7. Unit Agreement Name

San Juan 27-5 Unit

Well Name & Number

San Juan 27-5 U #2C

API Well No.

30-039-25800

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 - Pay add

☐ 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 pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram. Please provide surface stipulations.

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

Signed [Signature] (MOOpps) Title Regulatory Administrator Date 2/22/00

(This space for Federal or State Office use)

APPROVED BY [Signature] Title 1st Encl Barker

CONDITION OF APPROVAL, if any:

Date MAR - 7 2000

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.

ahse

NMOCD

San Juan 27-5 Unit #2C
 Lewis Payadd Procedure
 Unit A, Section 9, T-27N, R-05 W
 Lat: 36° 35.52' Long: 107° 21.28'

This well was originally drilled in 1998 and 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 75Q 20 lb linear gel in each stage. Foam will be used to limit fluid damage to the Lewis and aid in the flowback. The flowback choke schedule is to be used to ensure that the proppant remains 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.
- Set and fill 3-400 BBL Frac tanks w/ 2% KCl water. Test and filter if necessary.

Equipment Needed:

- (3) Frac Tanks with 2% KCl water
- (2) 4-1/2" CIBP
- (1) 4-1/2" RBP
- (1) 4-1/2" Packer
- (1) 4-1/16" Frac Valve

PROCEDURE:

1. MIRU. Record and report SI pressures on tubing, casing, and bradenhead. Inspect wellhead to ensure everything is rated to at least 3000 psi. 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 5924' (SN @ 5892'). Visually inspect tubing, note and report any corrosion and/or scale** in/on tubing. Replace bad joints as needed.

** If tubing is scaled up, contact the production engineer so a scale analysis can be run to determine if an acid treatment is needed.

3. RU wireline. Run 4-1/2" gauge ring to 4970'. If ring tags up before 4970', TIH with 3-7/8" Bit, 4-1/2" 11.6# casing scraper on 2-3/8" tubing and CO to ~~7829'~~
~~5918'~~ POOH.
4. RIH and wireline set CIBP @ ± 4950'. Load Hole w/ 2% KCl water. Pressure test CIBP and casing to 3000 psi.
5. Correlate to GR-CBL-CCL and perforate the Lower Lewis as follows using Scallop HSC guns loaded with TAG-4000-311T 23 gm, .42" diameter, 22.2" penetration charges at 1 SPF in the following intervals from bottom up:

4883-73, 4845-35, 4794-84, 4737-27, 4668-58, 4615-05

RD wireline.

6. 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 333 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 |

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| RBP Setting Depth | Packer Setting Depth | Perforation Intervals |
|-------------------|----------------------|-----------------------|
| 4940 | 4805 | 4835-45, 4873-83 |
| 4820 | 4680 | 4727-37, 4784-94 |
| 4710 | 4550 | 4605-15, 4658-68 |

7. TOOH w/ RBP, Packer, and 2-3/8" tubing.
8. Pressure Test surface lines to 4000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand 75Q foam w/ 20 lb linear gel at a rate of 35 BPM in 0.5 to 3.0 ppg stages. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 3000 psi.** At 35 BPM friction pressure is approximately 820 psi. Slow rate during flush. Flush to within 50' of top perf with 75Q foam.
9. Record ISIP, 5, 10 and 15 shut-in pressure. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-choke manifold and pit. Begin flowback after stimulation company has rigged down from frac valve. Open well to pit on accordance with 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 adjustable choke and open adjustable choke on manifold to pre-determined size listed in table and begin flowing through adjustable choke. 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 adjustable choke and close adjustable choke.

| | |
|--------------|----------------------|
| 10/64" Choke | Approximately 2 hrs. |
| 12/64" Choke | Approximately 2 hrs. |
| 14/64" Choke | Approximately 2 hrs. |
| 16/64" Choke | Approximately 3 hrs. |
| 18/64" Choke | Approximately 3 hrs. |
| 20/64" Choke | Approximately 3 hrs. |
| 22/64" Choke | Approximately 3 hrs. |
| 24/64" Choke | Approximately 3 hrs. |
| 32/64" Choke | Approximately 3 hrs. |

NOTE: Follow this schedule to utilize a 24+ 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. RU wireline and RIH w/ 4-1/2" CIBP, and set CIBP @ \pm 4570. Load hole w/ 2% KCl water and pressure test CIBP and casing to 3000 psi
11. Correlate to GR-CBL-CCL and perforate the Upper Lewis as follows using Scallop HSC guns loaded with TAG-4000-311T 23 gm, .42" diameter, 22.2" penetration charges at 1 SPF in the following intervals from bottom up:

4518-08, 4482-72, 4430-20, 4290-80, 4208-4198, 4114-04

RD wireline.

San Juan 27-5 Unit #2C
 Lewis Payadd Procedure
 Unit A, Section 9, T-27N, R-05 W
 Lat: 36° 35.52' Long: 107° 21.28'

12. 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 \pm 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 333 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:

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|----------|--------------------|---------------------|
| 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 |
|-------------------|----------------------|-----------------------|
| 4560 | 4440 | 4472-82, 4508-18 |
| 4455 | 4220 | 4280-90, 4420-30 |
| 4250 | 4040 | 4104-14, 4198-4208 |

13. TOOH w/ RBP, Packer, and 2-3/8" tubing and stand back.

14. Pressure Test surface lines to 4000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand in 75Q foam w/ 20 lb linear gel at a rate of 35 BPM in 0.5 to 3.0 ppg stages. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 3000 psi.** At 35 BPM friction pressure is approximately 680 psi. Slow rate during flush. Flush to within 50' of top perf with 75Q foam.

15. Record ISIP, 5, 10 and 15 shut-in pressure. Shut-in frac valve. RD stimulation company. Install flowback line above frac valve. Lay flowback line to dual-choke manifold and pit. Begin flowback after stimulation company has rigged down from frac valve. Open well to pit on accordance with 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 adjustable choke and open adjustable choke on manifold to pre-determined size listed in table and begin flowing through adjustable choke. 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 adjustable choke and close adjustable choke.

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16. TIH w/ 3-7/8" bit on 2-3/8" tubing and CO to CIBP @ 4570'. Monitor gas and water returns. When sand and water allow (less than 5 BPH and trace sand), take a Upper Lewis pitot gauge. DO CIBP @ 4570' with a minimum of 12 BPH mist rate.
17. CO to CIBP @ 4950'. Monitor gas and water returns. When sand and water allow (less than 5 BPH and trace sand), take a complete Lewis pitot gauge. DO CIBP @ 4950' with a minimum of 12 BPH mist rate.
18. Continue to CO to PBTD with air. Blow well at PBTD and monitor water rates. If needed continue to blow well for clean up. When water rates are below 5 BPH and there is no sand production, TOO H.
19. TIH with an expendable check, one 2-3/8" joint, seating nipple, and remaining production tubing. Broach tubing while running in hole. CO with air/mist to PBTD again, if necessary. Obtain final pitot gauge. Land tubing at \pm 5924'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.
20. RU Pro-Technics. Run After Frac Log across Lewis (5100' – 4000'). RD Pro-Technics.

Recommended: Michele Quisel
Production Engineer
12-17-99

Approved: [Signature] 12/20/00
Drilling Superintendent

Approved: [Signature] 12/21/99
Team Leader

Contact:

Michele Quisel 324-6162 (WORK) 326-8196(PAGER) 564-9097(HOME)

| | | | |
|----------|-------------|--------------|----------|
| Vendors: | Wireline: | Basin | 327-5244 |
| | RA Tagging: | Pro-Technics | 326-7133 |

San Juan 27-5 Unit #2C

1185' FNL, 85' FEL

Unit A Sec. 09, T-27 R-05W

San Juan County, New Mexico

KB 6647

GL 6635

Lat: 36° 35.52'

Long: 107° 21.28'

