

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

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
920' FNL 1450' FEL, Sec.16, T-30-N, R-6-W, NMPM, Rio Arriba County

API # (assigned by OCD)
30-039-07857

5. Lease Number

6. State Oil&Gas Lease #
E-347

7. Lease Name/Unit Name
San Juan 30-6 Unit

8. Well No.
24

9. Pool Name or Wildcat
Blanco Mesaverde

10. Elevation:

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 -

13. Describe Proposed or Completed Operations

It is intended to add the Lewis to the Mesaverde formation of the subject well and restimulate the Mesaverde according to the attached procedure and wellbore diagram.

RECEIVED
DEC 22 1998
OIL CON. DIV.
1998

SIGNATURE  (BLG) Regulatory Administrator December 21, 1998

TLW

(This space for State Use)

ORIGINAL SIGNED BY ERNIE BUSCH

DEPUTY OIL & GAS INSPECTOR, DIST. #3 JAN - 4 1999

Approved by _____ Title _____ Date _____

San Juan 30-6 Unit #24
Burlington Resources Oil & Gas
Mesaverde Restimulation/Lewis Payadd
Unit B - Sec 16 - T30N - R06W
Lat: 36° 49.04'
Long: 107° 27.82'

-
- Comply with all BLM, NMOCD, & BR rules & regulations.
 - **Always Hold Safety Meetings.** Place fire and safety equipment in strategic locations.
 - Spot and fill 18 frac tanks with 2% KCl water.
 - Use drill gas for all operations.
 - (2) 5-1/2" CIBP required for 5-1/2" 14# J-55 pipe.
 - (1) 5-1/2" Model 'EA' Retrieivomatic Packer
 - 5400' 3-1/2" 9.3# N-80 Frac string
 - 2 joints 2-7/8" 6.5# N-80 tubing
-

The well is completed in the Blanco Mesaverde (Point Lookout, Cliffhouse, Menefee) and is currently producing 40 MCFD. Cumulative production is 2364 MMCF with remaining reserves of 627 MMCF. The existing MV intervals were stimulated with slickwater and no sand, these intervals will be restimulated with sand and slickwater. The Point Lookout/Menefee/Cliffhouse will be stimulated in one stage with slickwater and 200K# sand. The Lewis will be stimulated in two stages with a 70 Quality foam, 25# linear gel frac and 100K# sand in each stage. Foam is to be used to limit fluid damage to the Lewis and aide in flowback. The flowback choke schedule is to be used to ensure that proppant remains in the fractures.

NOTE: Mesaverde perfs open 5116' - 5572'

1. MIRU. Record and report SI pressures on tubing, casing, and bradenhead. Blow down casing and tubing. Kill well w/ 2% KCl. ND WH, NU BOP.
2. TOOH with 2-3/8" 4.7# J-55 tubing from 5560' (185 joints) and LD. Visually inspect tubing, replacing any bad joints.
3. RU wireline unit. Run gauge ring to 5110'. TIH with 5-1/2" Mechanical set RBP to 5100'. Load hole from bottoms up with 2% KCl. TOOH.
4. Pressure test casing from surface to 1000 psi for 10 minutes. If casing fails hunt hole(s). Engineering will provide squeeze design if required.
5. With hole loaded and 1000 psi, run CBL from 5080' to 3280'. Send logs into engineering for evaluation.
6. TIH with retrieving head on 2-3/8" tbg. Latch on to RBP at 5100'. Release and TOOH.

Point Lookout/Cliffhouse/Menefee Restimulation:

7. TIH with 5-1/2" pkr on 2 jts 2-7/8" tbg and 3-1/2" 9.3# N-80 frac string. Set pkr at 4950'.

8. RU stimulation company. Test surface lines to 6000 psi. **Max surface pressure = 5000 psi at 5 BPM. Max static pressure = 5000 psi.** Break down PL w/1000 gallons 15% HCL acid (w/ 2 gal/1000 corrosion inhibitor). Establish rate into formation. Shutdown, record breakdown pressure, rate, and ISIP.
9. Fracture stimulate the Mesaverde with 200,000# 20/40 Arizona sand in slickwater at 45 BPM. (Estimated pressure drop due to friction in the wellbore is 2300 psi at 45 BPM.) See attached frac schedule for details. *(14 frac tanks needed)*
10. Release PKR, TOO. RU wireline under packoff. Set 5-1/2" CIBP @ 5100'. POOH. RD wireline unit.

Lewis (First Stage):

11. Under packoff, perforate the Lewis at the following depths with select fire HSC gun using Owen 3125-302T 10g charges (0.29" hole, 16.64" penetration), 1 SPF @ 180 degree phasing.

4650', 4660', 4670', 4685', 4715', 4725', 4835', 4845', 4855', 4865', 4875',
4905', 4925', 4931', 4965', 4980', 4990', 5005', 5020', 5035', 5060', 5070',
5080' (23 total holes, 430' gross interval)
12. TIH with 5-1/2" pkr on 2 joints 2-7/8" N-80 tbg and 3-1/2" 9.3# N-80 frac string set at 5090'. Pressure test CIBP to 3000 psi. Release and reset pkr to 4500'.
13. RU stimulation company. Test surface lines to 6000 psi. **Max surface pressure = 5000 psi at 5 BPM. Max static pressure = 5000 psi.** Break down Lewis w/ 1000 gallons 15% HCL and 50 7/8" 1.3 s.g. ball sealers. Release pressure, RD stimulation company. Lower pkr to 5090' to knock off perf balls. Reset pkr at 4500'.
14. RU flowback equipment so that flowback can commence within 30 min after shutdown.
15. RU stimulation company. Test surface lines to 6000 psi. **Max surface pressure = 5000 psi.** Fracture stimulate the Lewis w/ 100,000# 20/40 Arizona sand in 70 Quality foam with 25# Linear gel at 40 BPM. (Estimated pressure drop due to friction in the wellbore is 4178 psi at 40 BPM.) See attached frac schedule for details. *(2 frac tanks needed)*
16. Shut well in after frac and record ISIP. RD stimulation company. Install flowback line above frac valve. Commence flowback within 30 min after shutdown. 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. Take pitot gauges when possible.
17. RD flowback equipment. Release PKR, TOO. RU wireline under packoff. Set 5-1/2" CIBP @ 4630'. POOH. RD wireline unit.

Lewis (Second Stage):

18. Under packoff, perforate the Lewis at the following depths with select fire HSC gun using Owen 3125-302T 10g charges (0.29" hole, 16.64" penetration), 1 SPF @ 180 degree phasing.

4040', 4050', 4062', 4297', 4308', 4315', 4320', 4330', 4355', 4365', 4375',
4385', 4440', 4450', 4460', 4470', 4595', 4505', 4530', 4540', 4555', 4565',
4595' (23 total holes, 545' gross interval)

19. TIH with 5-1/2" pkr on 2 joints 2-7/8" N-80 tbg and 3-1/2" 9.3# N-80 frac string set at 4615'. Pressure test CIBP to 3000 psi. Release and reset pkr to 3900'.
20. RU stimulation company. Test surface lines to 6000 psi. **Max surface pressure = 5000 psi at 5 BPM. Max static pressure = 5000 psi.** Break down Lewis w/ 1000 gallons 15% HCL and 50 7/8" 1.3 s.g. ball sealers. Release pressure, RD stimulation company. Lower pkr to 4600' to knock off perf balls. Reset pkr at 3900'.
21. RU flowback equipment so that flowback can commence within 30 min after shutdown.
22. RU stimulation company. Test surface lines to 6000 psi. **Max surface pressure = 5000 psi.** Fracture stimulate the Lewis w/ 100,000# 20/40 Arizona sand in 70 Quality foam with 25# Linear gel at 40 BPM. (Estimated pressure drop due to friction in the wellbore is 3571 psi at 40 BPM.) See attached frac schedule for details. (2 frac tanks needed)
23. Shut well in after frac and record ISIP. RD stimulation company. Install flowback line above frac valve. Commence flowback within 30 min after shutdown. 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. Take pitot gauges when possible.
24. RD flowback equipment. TOOH.
25. TIH w/4-3/4" bit on 2-3/8" tbg and clean out to CIBP at 4630'. Pull above perfs and obtain pitot gauge for the upper Lewis. Drill out CIBP (minimum mist rate of 12 BPH).
26. Clean out to CIBP at 5100'. Pull above perfs and obtain pitot a gauge for the entire Lewis interval.
27. Drill out CIBP (minimum mist rate of 12 BPH) at 5100', clean out to PBTD (5597').
28. When wellbore is sufficiently clean, TOOH.
29. Prepare to run production tubing string as follows: expendable check, one joint 2-3/8" tubing, 1.78" seating nipple, and remaining tubing. Land tubing @ 5560'.
30. ND BOP's, NU single tubing hanger wellhead. Pump off expendable check. Obtain final pitot up tubing. If well will not flow on it's own, make swab run to seating nipple. If swab run is not necessary, run a broach on slickline to ensure that the tubing is clear. RD and MOL. Return well to production.

Recommended:


Production Engineer 12-18-98

San Juan 30-6 Unit #24
Burlington Resources Oil & Gas
12/09/98

Approved:

 12/15/98
Basin Opportunities Team Leader

Approved:

Drilling Superintendent

Vendors:

Wireline	Basin	326-6669
Stimulation	Dowell	325-5096

Production Engineer: **Bobby Goodwin**
326-9713-work
564-7096-pager
599-0992-home

San Juan 30-6 Unit #24

Blanco Mesaverde Payadd
Unit B, Section 16, T30N, R06W
Rio Arriba County, NM
Elevation: 6286' GL
LAT: 36 49.04'
LONG: 107 27.82'
date spud: 03-14-57

