

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

Sundry Notices and Reports on Wells

<p>1. Type of Well GAS</p> <hr/> <p>2. Name of Operator BURLINGTON RESOURCES OIL & GAS COMPANY</p> <hr/> <p>3. Address & Phone No. of Operator PO Box 4289, Farmington, NM 87499 (505) 326-9700</p> <hr/> <p>4. Location of Well, Footage, Sec., T, R, M 800' FNL 800' FEL, Sec. 16, T-31-N, R-11-W, NMPM, San Juan County</p>	<p>API # (assigned by OCD) 30-045-10798</p> <p>5. Lease Number</p> <p>6. State Oil&Gas Lease # B-11017-22-NM</p> <p>7. Lease Name/Unit Name Brookhaven Com B</p> <p>8. Well No. 3</p> <p>9. Pool Name or Wildcat Blanco Mesaverde</p> <p>10. Elevation:</p>
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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 Lewis pay to the Mesaverde formation of the subject well according to the attached procedure and wellbore diagram.

RECEIVED
JAN 27 1999
OIL CON. DIV.

SIGNATURE  (MQ) Regulatory Administrator January 21, 1999

TLW

(This space for State Use)

Approved by _____ Title _____ Date JAN 29 1999

DEPUTY OIL & GAS INSPECTOR, DIST. #3

ORIGINAL SIGNED BY ERNIE BUSCH

Brookhaven Com B #3
Lewis Payadd Procedure
800' FNL, 800' FEL
Unit A Sec. 16, T-31 R-11W
San Juan County, NM
Latitude: 36 ° 54.2' Longitude: 107° 59.3'

Summary:

The Brookhaven Com B #3 is a Lewis payadd. This well was originally drilled in 1954 and was open-hole completed w/ 3900# sand and 6500 gals #2 diesel in the Menefee and the Point Lookout. The Cliff House was also completed, but due to low gas rates and water production, the Cliff House was cemented behind pipe. The Brookhaven Com B #3 has not produced since 1992, when the replacement well, Brookhaven Com B #3R, was drilled and brought on production. To satisfy a BLM demand, the Lewis will be completed in the subject well. The Lewis will be completed in one stage with a 70 Quality foam and 210,000# sand.

- Comply with all NMOCD, BLM and BR regulations. Conduct daily safety meetings for all personnel on location. **Notify BR regulatory (Peggy Bradfield 326-9727)** and the appropriate Regulatory Agency prior to pumping any cement job and after CBL is run. If an unplanned cement job is required, **approval is required before the job can be pumped. If verbal approval is obtained, document the approval in Dims.** Allow adequate notice prior to the pump time for the Agency to witness the cementing operation.
 - Inspect location and wellhead and install rig anchors prior to rig move.
 - Construct blow pit.
1. MOL, hold safety meeting and RU. Insure all safety equipment is strategically located and functioning properly. NU relief lines to blow pit. Set 4 - 400 BBL frac tanks and fill w/ 2% KCL. Blow well down and kill well with 2% KCL water as necessary. ND wellhead and NU BOP, stripping head and blooie line. Test BOP.
 2. Attempt to TOOH w/ approximately 162 jts. 2-3/8" tbg set at +/- 5008' and stand back. If stuck, free point and jet cut below liner top @ 4165'. Inspect tubing and replace as necessary.
 3. PU 7" cmt retainer on 2-3/8" tubing and set cmt retainer @ 4100'. Sting into cmt retainer and set the tubing in the test position. Pressure test the tubing to 1500 psi. Establish an injection rate, and squeeze w/ 190 sx Class "B" cmt. This will fill from the bottom of the open hole to 4100' w/ 100% excess cmt. Sting out of the retainer pull 1 stand and reverse out cement. TOH.
 4. RU Wireline. RUN CBL/GR/CCL w/ 1000 psi from 4100' to 2000' or to TOC. If casing will not hold, pressure isolate and remediate casing failure. Correlate to old Induction Log. Hot Shot Logs to Michele Quisel and to Drilling.
 5. Perforate approximately 30 holes with 3-1/8" HSC-3125-306T gun w/ 12 gram charges, 17.48" penetration and 0.30 perf diameter. Correlate to new CBL/GR/CCL. Perforate bottom up at depths to be determined, approximately ± 4000 to ± 3440. RD wireline company. The GR will be used to correlate to the logs from the Brookhaven Com B #3R to pick perforations.

Stimulate – 1st Stage Lewis

6. PU and TIH w/ 7" Packer on 3-1/2" 9.3# N-80 EUE frac string. RU Stimulation Company. Set packer @ ± 4090' and pressure test CIBP to 3450 psi. Release and reset @ ± 3390'. Hold pre-job safety meeting. Load annulus before breakdown and keep loaded during frac. Pressure annulus to 500 psi and monitor annulus pressure during breakdown and frac. Pressure test surface lines to 6000 psi. Breakdown to maximum bottomhole pressure of 3450 psi. Breakdown perforations w/ 1500 gal. 15% HCL.** Drop 60 – 7/8" 1.1 SG RCN balls. Balloff to maximum bottom hole pressure of 3450 psi. Record breakdown pressure and ISIP. Prepare to fracture stimulate. Release pkr and knock balls off perforations. Reset pkr. @ 3390'.

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** All acid to contain the following additives/1000 gal.:

2 gal.	CI-22	corrosion inhibitor
5 gal	Ferrotrol-300L	iron control
1 gal	Flo-back 20	surfactant
0.5 gal	Clay Master-5C	clay control

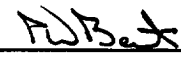
7. Fracture stimulate in 1.0 to 4.0 ppg stages @ 50 BPM constant downhole rate with 41,203 gal. of 20# linear gel, 1,628 MCF N₂, and 210,000# 20/40 mesh sand. When sand concentration begins to drop, call flush. Flush to top perf @ +/- 3440'. Maximum bottomhole treating pressure is 3450 psi (80% of burst). Estimated friction pressure is 4232 psi @ 50 BPM. **Maximum Surface Treating Pressure is 5000 psi.**


Stage	BH Sand Conc. ppg	Sand Mesh	Stage Sand lbs	BH Rate bpm	BH Foam Qual.	Clean Liquid Volume gals	Nitrogen Rate scf/min	Stage N2 mscf
Pad	0		0	50	0.7	6,000	25,130	239
2	0.5	20/40	5,000	50	0.7	3,000	24,570	120
3	1	20/40	50,000	50	0.7	15,000	24,034	598
4	2	20/40	50,000	50	0.7	7,500	23,030	299
5	3	20/40	50,000	50	0.7	5,000	22,106	199
6	4	20/40	55,000	50	0.7	4,125	21,253	164
Flush			0	50	0.5	578	17,950	10
			Total lbs.	Avg. Rate	Avg. Qual.	Total Gallons	Avg. N2 Rate	Total mscf
			210,000	50	1	41,203	22,582	1,628

8. Record ISIP, 5, 10, and 15 minute shut-in pressure. Shut-in frac valve. RD stimulation company.
9. After well cleans up and pressure allows, release pkr and TOO H w/ 3-1/2" 9.3# N-80 EUE frac string and 7" packer and lay down.
10. TIH w/ 6-1/4" bit on 2-3/8" 4.7# J-55 tubing and CO to CIBP @ +/- 4100' with air/mist. When well is sufficiently clean, less than 2 BWPH, obtain pitot of Lewis. TOO H.
11. Rabbit in with one joint of 2-3/8", 4.7#, J-55 tubing w/ expendable check, seating nipple, then the remaining 2-3/8" production tubing. Land tubing @ ± 3970'.
12. ND BOP's, NU wellhead. Pump off expendable check. RD and MOL. Place well on production.

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San Juan County, NM
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Approve:  1/18/99
Team Leader

Approve:  1/14/99
Drilling Superintendent

Recommend:  1-13-99
Production Engineer

VENDORS:

Wireline:	Basin	327-5244
Stimulation:	Halliburton	324-3500
Tools:	Baker	327-3266

Michele Quisel

Home 564-9097

Office 324-6162

Pager 326-8196

Brookhaven Com B #3

800' FNL, 800' FEL

Unit A Sec. 16, T-31 R-11W

San Juan County, New Mexico

KB 6027

GL 6017

9-5/8" 25.4#
125 sx
TOC circ.

173'

7" 20# (0'-2273')
23# (2273'-4283')
500 sx
TOC 1630'
By TS

Current

1630'

4165'

4283'

4816'

5-1/2" J-55
15.5# Liner
4165'-4816'
75 sx
TOC 4000'
By TS

4-3/4" Open
Hole
4816'-5031'

5031'

**Menefee & Point
Lookout:**
4816' - 5031'
Treated w/ 3900# sd and
6500 gals #2 Diesel

PBTD = 5031'
TD = 5031'

Proposed

1630'

4165'

4283'

4816'

Lewis:
Perfs ± 3440' - 4000'
Frac'd w/ 210,000# sd and 70 Q
Foam

Formation Tops

Ojo Alamo	1950
Kirtland	2026
Fruitland Coal	2348
Pictured Cliffs	2683
Lewis	2755
Cliffhouse	4270
Menefee	4485
Point Lookout	4923

Cmt Retainer @4100'
cmt w/ 190 sx

5031'

MSQ

01/13/1999