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

Sundry Notices and Reports on Wells

1. **Type of Well**
GAS

API # (assigned by OCD)
30-039-25598

5. **Lease Number**

6. **State Oil&Gas Lease #**
E-290-38

2. **Name of Operator**
BURLINGTON RESOURCES **OIL & GAS COMPANY**

7. **Lease Name/Unit Name**
San Juan 27-5 Unit

8. **Well No.**
111M

3. **Address & Phone No. of Operator**
PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. **Pool Name or Wildcat**
Blanco MV/Basin DK

4. **Location of Well, Footage, Sec., T, R, M**
1490'FSL, 800'FEL, Sec.2, T-27-N, R-5-W, NMPM, Rio Arriba County

10. **Elevation:**

Type of Submission	Type of Action	
_X_ Notice of Intent	___ Abandonment	___ Change of Plans
	___ Recompletion	___ New Construction
___ Subsequent Report	___ Plugging Back	___ Non-Routine Fracturing
	___ Casing Repair	___ Water Shut off
___ Final Abandonment	___ Altering Casing	___ Conversion to Injection
	_X_ Other - Pay add	

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.

FEB 2000
RECEIVED
OIL CON. DIV
DIST. 3

SIGNATURE Peggy Cole (MQOpps)Regulatory Administrator February 22, 2000

no

(This space for State Use)

Approved by _____ Title SUPERVISOR DISTRICT # 3 Date FEB 24 2000

San Juan 27-5 Unit #111M

Lewis Payadd Procedure

Unit I, Section 2, T-27N, R-05 W

Lat: 36° 35.97' Long: 107° 19.25'

This well was originally drilled in 1997 and is currently completed in the Cliff House, Menefee, Point Lookout and Dakota. 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
4300' -- 3-1/2" N-80 9.3#

PROCEDURE:

1. MIRU. Record and report SI pressures on tubing, casing, and bradenhead. 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 8539' (SN @ 8506'). 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 5720'. If ring tags up before 5720', TIH with 3-7/8" Bit, 4-1/2" 11.6# casing scraper on 2-3/8" tubing and CO to 8584'. TOOH. TIH with 4-1/2" CIBP on/off tool and 4-1/2" packer. Set CIBP @ ± 5700'. Load Hole w/ 2% KCl water. Set packer @ ± 4670' . Pressure test CIBP and casing to 3800 psi. Release packer and TOOH.

4. 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:

   5620-10, 5580-70, 5494-84, 5432-22, 5361-51, 5306-5296

   RD wireline.

5. 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_4CL	clay control

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RBP Setting Depth	Packer Setting Depth	Perforation Intervals
5690	5510	5570-80, 5610-20
5550	5370	5422-32, 5484-94
5405	5230	5296-5306, 5351-61

6. TOOH w/ RBP, Packer, and 2-3/8" tubing. PU and TIH w/ 4-1/2" packer, 2 joints 2-3/8" 4.7# J-55, 2-3/8" X 2 7/8 crossover, 21 joints 2-7/8" 6.4# BUTTRESS, 2-7/8" Buttress X 3-1/2" 9.3# crossover and 3-1/2" 9.3# N-80 Frac String. Set Packer @ 4670'.

7. Pressure Test surface lines to 7000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand 75Q foam with 20 lb linear gel at a rate of 35 BPM in 0.5 to 3.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 6000 psi.** At 35 BPM friction pressure is approximately 4770 psi. Slow rate during flush. Flush to 100' above top perf with 75Q foam.

8. 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 N_2), change to next larger choke size before time schedule dictates.

9. Release packer and TOOH. Stand back 3-1/2" frac string, 3-1/2" X 2-7/8" crossover, 2-7/8" frac string, 2-7/8"X2-3/8" cross over, and 2-3/8" Frac String.

10. TIH w/ 4-1/2" CIBP, on/off tool and 4-1/2" packer on 2-3/8" tbg and set CIBP @ ± 5240'. PUH, set packer @ 4670', and pressure test CIBP and casing to 3800 psi. Release packer and TOOH.

11. RU wireline. 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:

San Juan 27-5 Unit #111M

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Unit I, Section 2, T-27N, R-05 W
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5208-5198, 5160-50, 5120-10, 4993-83, 4920-10, 4820-10

RD wireline.

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 ± 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_4CL	clay control

RBP Setting Depth	Packer Setting Depth	Perforation Intervals
5230	5130	5150-60, 5198-5208
5140	4930	4983-93, 5110-20
4970	4760	4810-20, 4910-20

13. 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# J-55, 2-3/8" X 2 7/8 crossover, 21 joints 2-7/8" 6.4# BUTTRESS, 2-7/8" Buttress X 3-1/2" 9.3# crossover and 3-1/2" 9.3# N-80 Frac String.Set Packer @ 4670'.

14. Pressure Test surface lines to 7000 psi. Fracture stimulate Lower Lewis with 100,000 lbs 20/40 sand in 75Q foam with 20 lb linear gel at a rate of 35 BPM in 0.5 to 3.0 ppg stages. Apply 500 psi to annulus. Monitor annulus pressure throughout stimulation. **Tag sand with 3 radioactive isotopes. Maximum Surface Treating Pressure is 6000 psi.** At 35 BPM friction pressure is approximately 3300 psi. Slow rate during flush. Flush to 100' above 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.

10/64" Choke	Approximately 2 hrs.
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16. Release packer and TOOH. Release packer and TOOH. Laydown 3-1/2" frac string, 3-1/2" X 2-7/8" crossover, 2-7/8" frac string, 2-7/8"X2-3/8" cross over, and 2-3/8" Frac String.

17. TIH w/ 3-7/8" bit on 2-3/8" tubing and CO to CIBP @ 5240'. 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 @ 5240' with a minimum of 12 BPH mist rate.

18. CO to CIBP @ 5700'. 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 @ 5700' with a minimum of 12 BPH mist rate.

19. 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, TOOH.

20. 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 ± 8539'. ND BOP. NU WH. Pump off expendable check. RDMO. Contact Production Operations for well tie-in.

21. RU Pro-Technics. Run After Frac Log across Lewis (5800' – 4600'). RD Pro-Technics.

Recommended: Michele Quisel
Production Engineer
12-17-99

Approved: _____ 1/20/00
Drilling Superintendent

Approved: _____ 12/21/99
Team Leader

Contact:

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

Vendors:			
	Wireline:	Black Warrior	326-6669
	RA Tagging:	Pro-Technics	326-7133

San Juan 27-5 #

1490' FSL, 800' FEL
Unit I Sec. 2, T-27 R-05W
Rio Arriba County, New Mexico

KB 7314 GL 7302
Lat: 36o 35.97' Long: 107o 19.25'

Current

9-5/8" 36# K-55
200 sx circ surf.
240'

7" 23# CF-50
490 sx 3880' CBL
4,005'
4,302'

TOC @ 4725' CBL

4-1/2" 10.5# J-55
4-1/2" 11.6# J-55
1st stg 290 sx

10.5# 4,005' 6,943'
11.6# 6,943' 8,668'
DV @ 6285
MJ @ 8367, 6931, 5882

Tubing:
2-3/8" 4.7#
@ 8,539'

8,668'

Ojo Alamo	3,562'
Kirtland	3,710'
Fruitland Coal	3,868'
Pictured Cliffs	4,105'
Lewis	4,240'
Huer Bent	4,768'
Navajo City	4,808'
Otero	5,105'
2nd Bench	5,282'
Upper Cliff House	5,720'
Massive Cliff House	5,910'
Menefee	5,968'
Point Lookout	6,320'
Mancos	6,590'
Gallup	7,545'
Greenhorn	8,250'
Graneros	8,350'

Cliff House/Menefee:
5721, 48, 58, 98, 5821, 40, 5903, 12, 19, 26, 37,
49, 60, 65, 77, 92, 98, 6009, 16, 30, 52, 88
10,000# 40/70 & 90,000# 20/40 sand & 95,000 gals Slickwater

Point Lookout:
1SPF: 6165, 86, 6226, 44, 51, 6,1 6325, 36, 44, 67, 80, 94
2SPF: 6413, 22, 36, 55, 75, 6523, 35, 55, 76
10,000# 40/70 & 90,000# 20/40 sand & 95,000 gals Slickwater

Dakota:
2SPF: 8354, 60, 74, 8412, 19, 30, 62, 70,
78, 92, 8507, 14, 20, 27, 32, 44, 54, 64
25,000# 20/40 & 33,000 gals 30# X-Linked Gel

Proposed

240'
4,005'
4,302'

Proposed:
Upper Lewis:
100,000 # 20/40 sand& 75Q 20# linear gel

Lower Lewis:
100,000# 20/40 sand & 75Q 20# linear gel

8,668'

PBTD = 8,584'
TD= 8,670'

12/17/1999 MSQ