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

Sundry Notices and Reports on Wells

API # (assigned by OCD)
30-039-07724

1. **Type of Well**
GAS

5. **Lease Number**

6. **State Oil&Gas Lease #**
E-5111-6

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

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

8. **Well No.**
87

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

9. **Pool Name or Wildcat**
Blanco Mesaverde

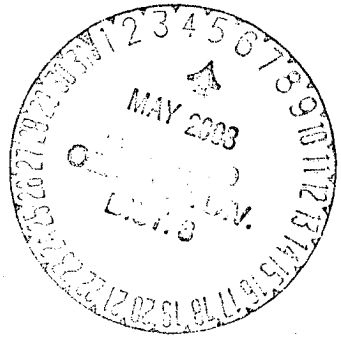
4. **Location of Well, Footage, Sec., T, R, M**
1650'FSL, 990'FWL, Sec.36, T-30-N, R-7-W, NMPM, Rio Arriba County

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 the Lewis interval to the subject well according to the attached procedure if the 7" casing is found to have good integrity. If the 7" casing does not test well, the well will be plugged and abandoned according to the attached procedure.



SIGNATURE Peggy Cole (DV7) Regulatory Supervisor May 2, 2003

no

(This space for State Use)

Approved by Charlie Perrin DEPUTY OIL & GAS INSPECTOR, DIST. #3 **Title** **Date** MAY - 5 2003

PROJECT OBJECTIVE:

The objective for this project is to pressure test the 7" casing to determine integrity. If the pressure test holds then the Lewis interval will be added. If the pressure test fails the wellbore will be plugged and abandoned. If the Lewis is to be added a CBL will be necessary to determine zonal isolation. The Lewis will be stimulated with a 75Q 20# LG foam frac. After stimulation and flowback the well will be cleaned to PBTD, after the well stabilizes the tubing will be landed and the well returned to production. If the well is to be plugged and abandoned a procedure ~~will be forth coming~~. ATTACHED

WELLBORE PREPARATION:

Deliver to location following equipment:

1.	One (1) 7", 23# tubing set CIBP
2.	One (1) BR approved wellhead isolation tool
3.	300' of 2-3/8", 4.7#, J55 EUE 8rd tubing to replace any damaged tubing
4.	1600 gallons of triple inhibited 15% HCL to be spot prior to stimulation
5.	30 gallons of 28% HCL to use in dump bailer if needed

1. MIRU completion rig. Comply with all BR, BLM, and NMOCD rules and regulations. Record tubing and casing pressures. RU blow lines from casing valves and begin blowing down casing pressure. Keep as little fluid as possible on the formations during pressure control.

2. ND wellhead assembly, and NU BOP. RU blooie line from BOP. Repair or replace any leaking or damaged valves on wellhead.

3. Pump water through casing valve to kill annulus and prepare to strip out tubing hanger. Back out jam nuts and remove tubing hanger. POOH with 6048' of 2-3/8" 4.7# J55 tubing (196 jts total w/ SN 1 jt off btm). Report condition of tubing on DFW report and type of scale, if any.

4. MU tubing set 7" 23# CIBP and RIH to +/- 5475' (top CH perf at 4364'). Load hole with 2% KCL. POOH.

5. RU Burlington Resources approved wellhead isolation tool. Pressure test surface lines to 4000 psi for 5 minutes, pressure test casing and CIBP to 3000-psi for 15 minutes. If the pressure test fails begin leak isolation. Once leak has been isolated contact engineer with results. A determination will need to be made to repair casing and continue with Lewis stimulation or plug and abandon the wellbore. If the pressure test holds continue with Lewis stimulation.

LEWIS STIMULATION

6. RU wireline company. RIH w/ GR/CCL/CBL and log from 5475' to 3475'. Contact engineer with results. Perforations will be selected form the log.

7. RIH with tubing and spot 1600 gallons of 15% HCL across proposed LW interval (estimate 4540' – 5440'). POOH

8. RU wireline company. Under lubricator RIH with 3-1/8" HSC casing gun. Select fire perforate Lewis with 1 SPF, 0.33" diameter, 25.89" penetration, 12 gram charges (GOEX XII-GM) at the following depths:

   NOTE: Perforating is to be done same day a stimulation to minimize clay swelling in the LW formation. Also, wireline is to remain on location until stimulation company breaks down the formation so that they can dump bail 28% if necessary.

Perforations will be selected for log run in Step #6

(25 total holes)									

ND wireline. Inspect casing gun to ensure all perforations fired.

9. NU frac valve, NU stimulation company, pressure test surface lines to 4000 psi for 5 minutes. Maximum treating pressure is 3000-psi. Prepare to breakdown perforations. Pump into perforations to establish injection rate at maximum treating pressure. If an injection rate cannot be established RU wireline and dump bail 28% HCL across main perforation concentration.

10. Fracture stimulate the Lewis interval per attached schedule. Increase injection rate above scheduled rate if pressure and equipment will allow ensuring maximum fluid diversion. Flush to within 200' of top perforation. Cut rate throughout flush as pressure allows. Shut down and record ISIP. ND and release stimulation company.

11. RU to flow back Lewis, open choke and flow back energized frac utilizing a BR dual flowbean and the schedule below for the first 12 hour period. Begin flow back once stimulation company has rigged down. Open well to pit; do not shut well in during flow back period. Alternate between dual chokes while adjusting choke size.

16/64 inch choke	Approximately 3 hours
24/64 inch choke	Approximately 3 hours
32/64 inch choke	Approximately 3 hours
48/64 inch choke	Approximately 3 hours

Note: Follow above to utilize a 12 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 largest choke size before schedule dictates.

12. After the 12 hour flowback kill well, RD BR approved isolation tool. MU 6-1/4" bit/mill and stage in hole to CIBP at +/- 5475'. A pitot gauge is not necessary. Clean up to less than 5 BPH water and trace of sand. When water rates are less than 5 BPH and sand volumes are acceptable. When wellbore conditions permit drill out BP with 10 - 12 BPH foam mist rate.

13. Continue to stage in hole and clean out to PBTD at +/- 6130'. Do not spend excess time cleaning open-hole section. If the open-hole section becomes unstable contact engineer, the PBTD may be adjusted according to wellbore conditions.

14. MU tubing BHA, same as pulled. Land tubing at +/- 6048'. ND BOP, NU wellhead. Pump off expendable check, flow well up tubing to ensure check is gone.

15. **During cleanout operations the reservoir may be charged with air. As a result of excess oxygen levels that may be in the reservoir and/or wellbore, contact the Lease Operator to discuss the need for determining oxygen levels prior to returning the well to production.**

16. Secure location, RD, and MOL.

BR Contacts:					
Position	**Name**	**Office**	**Pager**	**Mobile**	**Home**
Engineer	Dan Voecks	326-9719	327-8948		324-9893
Foreman	Bruce Voiles	326-9571	327-9837	320-2448	
Specialist	Gabe Archibeque		326-8256	320-2478	
Lease Operator	Bill Schaaphok		324-7711	320-2597	

L - 36 - 30N - 07W
San Juan County, NM
LAT: 36 DEG 45.98 LONG: 107 DEG 31.63
GL = 6,896' KB= 6,906'

Current/Proposed Wellbore

Surface Casing:
9-5/8" 25.4# SW
Cement: 125 sx TOC @ surf
Set @ 178'

178'

Ojo Alamo	2,776'
Kirtland	2,999'
Fruitland Coal	3,458'
Pictured Cliffs	3,805'
Lewis	3,840'
Huer Bent	
Navajo City	
Chacra	
Otero Second Bench	
Upper Cliff House	5,575'
Massive Cliff House	
Menefee	5,666'
Point Lookout	5,971'
Mancos	
Dakota	

Intermediate Casing:
7" 23.0# J55
Cement: 500 sx TOC @ 3810' TS
Set @ 5,527'

PROPOSED LEWIS:
4,540' - 5,450'
200,000 lbs 75 Q 20# LG foam

Current Tubing:
2-3/8" 4.7# J-55
Set @ 6048

Current Rods:

5,527'

Open Hole:
5527' - 6130'

Production Liner:
Open Hole .0# 0
Cement: TOC @
Set @ 5,527' to 6,130'

6,130'

PBTD= 6,130'
TD= 6,130'

DTV 05/02/03

San Juan 30-6 Unit #87 -- Mesaverde
PLUG AND ABANDONMENT PROCEDURE

1650' FSL & 990' FWL
Unit L, Section 36, T30N, R07W
Latitude / Longitude: N36° 45.99' / W107° 31.668'
AIN: 6981701

Note: All cement volumes use 100% excess outside pipe and 50' excess inside pipe. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Type III, mixed at 14.8 ppg with a 1.32 cf/sx yield.

1. Install and test location rig anchors. Prepare blow pit. Comply with all NMOCD, BLM, and Burlington safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. NU relief line and blow down well; kill with water as necessary. ND wellhead and NU BOP. Test BOP.

2. TOH with 196 joints 2-3/8" tubing, landed at 6048'. Visually inspect and if necessary LD tubing and PU workstring. Round-trip 7" gauge ring or casing scraper to 5500'.

3. **Plug #1 (Mesaverde Open Hole Interval, 5480' – 5430'):** Set a 7" CIBP at 5480' (7" 23#, J-55 csg). Load casing with water and circulate well clean. Pressure test casing to 500#. If casing does not test, then spot or tag subsequent plugs as necessary. Mix 20 sxs cement and spot a balanced plug inside casing above the bridge plug to isolate the Mesaverde interval. PUH to 3855'.

4. **Plug #2 (Pictured Cliffs Top, 3855' – 3755'):** Mix and pump 25 sxs cement and spot a balanced plug inside casing to cover the Pictured Cliffs top. TOH with tubing.

5. **Plug #3 (Fruitland Top, 3555' – 3455'):** Perforate 3 squeeze holes at 3555'. Establish rate into squeeze holes if the casing pressure tested. Set a 7" cement retainer at 3505'. Establish injection rate below cement retainer into squeeze holes. Mix 48 sxs cement, squeeze 23 sxs outside the 7" casing, and leave 25 sxs inside casing to cover the Fruitland top. TOH with tubing.

6. **Plug #4 (Kirtland and Ojo Alamo tops, 3049' – 2775'):** Perforate 3 squeeze holes at 3049'. Establish rate into squeeze holes if the casing pressure tested. Set a 7" cement retainer at 2999'. Establish injection rate below cement retainer into squeeze holes. Mix 116 sxs cement, squeeze 62 sxs outside the 7" casing, and leave 54 sxs inside casing to cover the Kirtland and Ojo Alamo tops. TOH with tubing.

7. **Plug #5 (Nacimiento top, 1540' – 1440'):** Perforate 3 squeeze holes at 1540'. Establish rate into squeeze holes if the casing pressure tested. Set a 7" cement retainer at 1490'. Establish injection rate below cement retainer into squeeze holes. Mix 48 sxs cement, squeeze 23 sxs outside the 7" casing, and leave 25 sxs inside casing to cover the Nacimiento top. TOH and LD tubing.

8. **Plug #6 (Surface casing, 228' - Surface):** Perforate 3 squeeze holes at 228'. Establish circulation out the bradenhead valve with water. Mix and pump approximately 105 sxs cement down 7" casing and circulate good cement out bradenhead valve. Shut well in and WOC.

9. ND BOP and cut off casing below surface. Install P&A marker with cement to comply with regulations. RD, move off location, cut off anchors and restore location.

Recommended: _____ Approved: _____
Operations Engineer Drilling Superintendent

Matt Roberts Office - (599-4098)
Cell - (320-2739)

Sundry Required: YES NO

Approved: _____

	Name:	Office:	Cell:	Pager:
Production Foreman:	Bruce Voiles	326-9571	320-2448	327-8937
Specialist:	Gabe Archibeque		320-2478	326-8256
Lease Operator:	Fidel Florez		486-1998	949-4616

MBR/clc