

submitted in lieu of Form 3160-5

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

Sundry Notices and Reports on Wells

APR 30 2010

1. Type of Well  
GAS

5. Lease Number  
NM-02861  
6. If Indian, All. or  
Tribe Name

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

7. Unit Agreement Name

3. Address & Phone No. of Operator

8. Well Name & Number  
Lodewick 8

PO Box 4289, Farmington, NM 87499 (505) 326-9700

9. API Well No.

30-045-06326

4. Location of Well, Footage, Sec., T, R, M

10. Field and Pool

Surf: Unit P (SESE), 890' FSL & 1025' FEL, Section 19, T27N, R9W, NMPM

11. Basin Dakota  
County and State  
San Juan Co., NM

12. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OTHER DATA

Type of Submission	Type of Action		
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans	<input type="checkbox"/> Other --
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction	
<input type="checkbox"/> Final Abandonment	<input type="checkbox"/> Plugging	<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	

13. Describe Proposed or Completed Operations

Burlington Resources wishes to P&A this well per the attached procedures and well bore schematics.

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

Signed Rhonda Rogers Rhonda Rogers Title Staff Regulatory Technician Date 4/30/10

(This space for Federal or State Office use)

APPROVED BY [Signature] Title PE Date MAY 04 2010

CONDITION OF APPROVAL, if any:

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.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

OPERATOR



## PLUG AND ABANDONMENT PROCEDURE

April 14, 2010

### Lodewick #8 Basin Dakota

890' FSL, 1025' FEL, Section 19, T27N, R9W, San Juan County, New Mexico  
API 30-045-06326 / Long - 107° 49' 24.564" W / Lat: 36° 33' 20.124" N

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires a NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.
2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.
3. Rods: Yes ☐ , No ☒ , Unknown ☐ .  
Tubing: Yes ☒ , No ☐ , Unknown ☐ , Size 2.375" , Length 6659' .  
Packer: Yes ☐ , No ☒ , Unknown ☐ , Type ☐ .  
If this well has rods or a packer, then modify the work sequence in step #2 as appropriate.
4. PU on tubing and sting out of existing cement retainer. Sting into CR and pressure test tubing to 1000 PSI. Sting out of CR and attempt to pressure test casing to 800 PSI. If casing does not test, then spot or tag subsequent plugs as appropriate. If unable to sting out of CR then jet cut tubing as determined by calculated freepoint. Modify Plug #1 as approved by BLM/NMOCD.
5. **Plug #1 (Dakota perforations and top, 6659' - 6559')**: Spot 17 sxs Class B cement and spot a balanced plug inside the casing above the existing CR to isolate the Dakota interval. TOH with tubing.
6. **Plug #2 (Gallup top, 5857' - 5757')**: Perforate 3 HSC holes at 5857'. TIH and set a CR at 5807'. Establish a rate into the squeeze holes. Mix 60 sxs Class B cement, squeeze 43 sxs outside the casing and leave 17 sxs inside casing to cover the Gallup top. TOH with tubing.
7. **Plug #3 (Mesaverde top, 3911' - 3811')**: Perforate 3 HSC holes at 3911'. TIH and set a CR at 3861'. Establish a rate into the squeeze holes. Mix 60 sxs Class B cement, squeeze 43 sxs outside the casing and leave 17 sxs inside casing to cover the Mesaverde top. TOH with tubing.
8. **Plug #4 (Pictured Cliffs and Fruitland top, 2338' - 2020')**: Mix ~~42~~<sup>1933</sup> sxs Class B cement and spot a balanced plug to cover the PC and Fruitland tops. TOH.
9. **Plug #5 (Kirtland and Ojo Alamo tops, 1570' - 1375')**: Perforate 3 HSC holes at 1570'. TIH and set a CR at 1570'. Establish a rate into the squeeze holes. Mix ~~142~~<sup>1303</sup> sxs Class B cement, squeeze ~~84~~ sxs outside the casing and leave ~~28~~ sxs inside casing to cover through the Ojo Alamo top. TOH and LD tubing.

- 10. Plug #6 (10.75" Surface casing shoe, 383' to Surface):** Perforate 3 squeeze holes at 383'. Establish circulation out bradenhead with water and circulate the BH annulus clean. Mix approximately 185 sxs Class B cement and pump down the 5.5" casing to circulate good cement out bradenhead. Shut in well and WOC.
- 11. ND BOP and cut off wellhead below surface casing flange.** Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

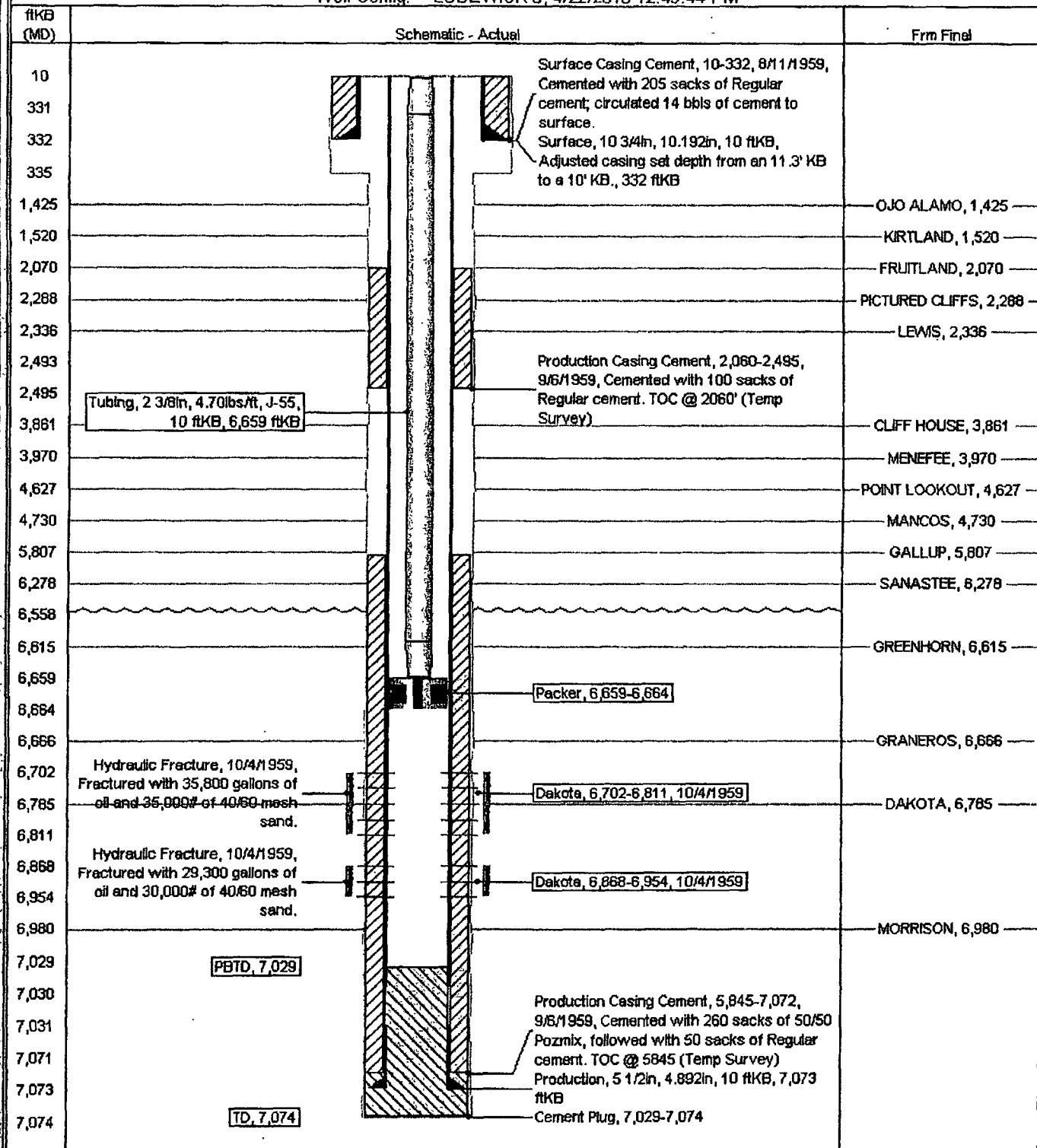
# Current Schematic

ConocoPhillips

Well Name: LODEWICK #8

API/UV#	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
3004506328	NMPM,019-027N-009W	EAST HAVEN (PROPOSED CAS)		NEW MEXICO		
Gross Elevation (ft)	Original K&RT Elevation (ft)	K&RT Ground Distance (ft)	K&RT Casing Flange Distance (ft)	K&RT Tubing Hanger Distance (ft)		
6,517.00	6,527.00	10.00				

Well Config: - LODEWICK 8, 4/22/2010 12:49:44 PM



# Lodewick #8

Proposed P&A

Basin

890' FSL, 1025' FEL, Section 19, T-27-N, R-9-W, San Juan County, NM

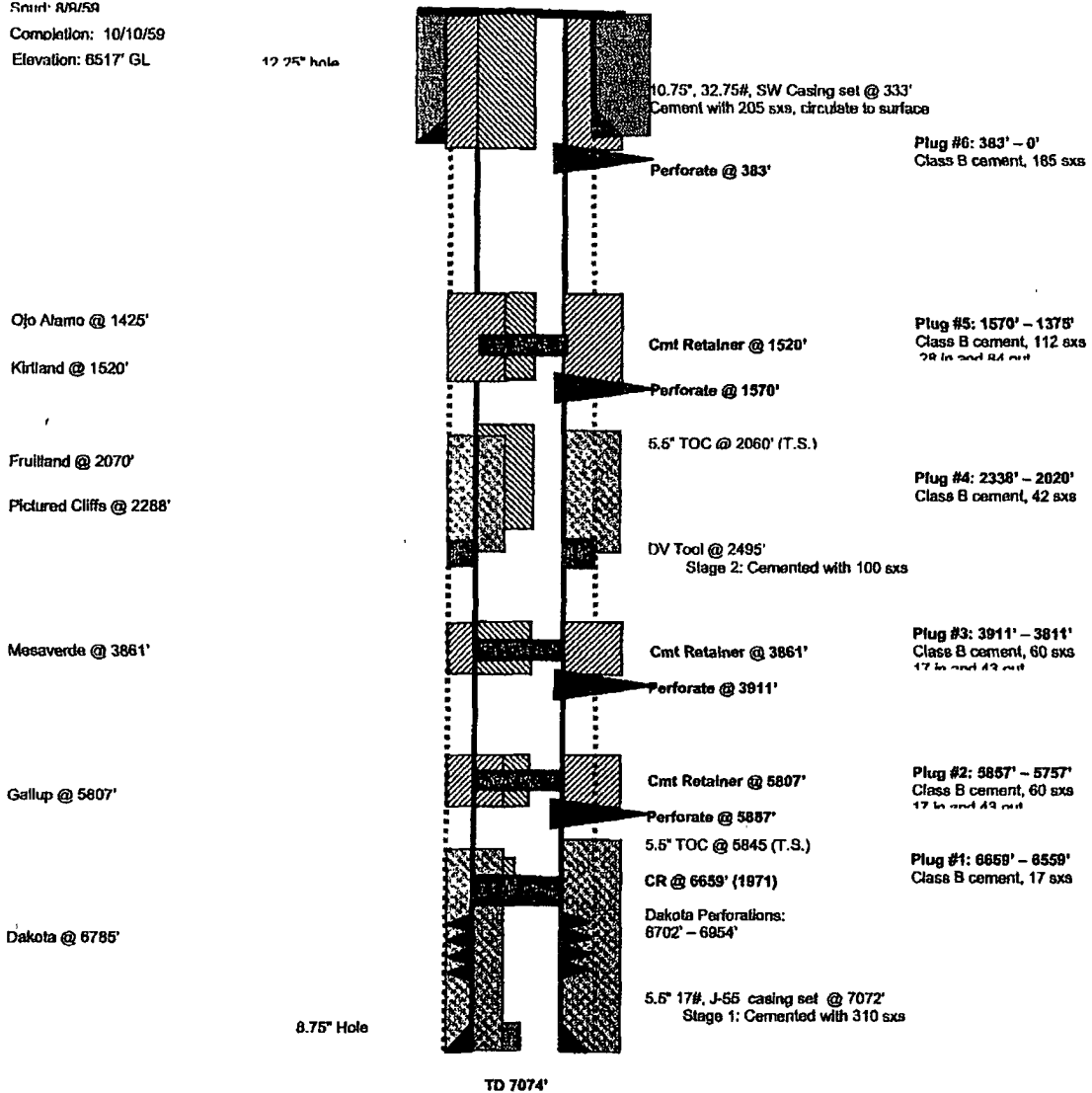
Lat: 36°33'20.124" N / Lat: 107°49'24.564" W, API #30-045-06326

Today's Date: 4/14/10

Smith: R/R/59

Completion: 10/10/59

Elevation: 6517' GL



## **BLM CONDITIONS OF APPROVAL**

The following surface rehabilitation Conditions of Approval must be complied with as applicable, before this well can be approved for final abandonment (see 43 CFR 3162.3-4). **Surface rehabilitation work shall be completed within one year of the actual plugging date. Notification for completion of this work can be submitted with a Sundry Notice.**

1. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
2. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
3. The well pad will be shaped to the natural terrain and left as rough as possible. All compacted areas and areas devoid of vegetation shall be ripped to a minimum of 12" before seeding.
4. Access roads will be shaped to conform to the natural terrain and left as rough as possible to detour vehicular travel. Access will be ripped to a minimum of 12" in depth and waterbarred prior to seeding. All erosion problems created by the development must be corrected prior to acceptance of release. Waterbars should be spaced as shown below:

<b>% Slopes</b>	<b>Spacing Interval</b>
Less than 20%	200'
2 to 5%	150'
6 to 9%	100'
10 to 15%	50'
Greater than 15%	30'

All water bars should divert to the downhill side of the road.

5. All disturbed areas will be seeded with the prescribed certified seed mix (reseeding may be required).
6. Notify Surfacing Managing Agency seven (7) days prior to seeding so that they may be present for that option.
7. The period of liability under the bond of record will not be terminated until the lease is inspected and the surface rehabilitation approved.

Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
1235 LA PLATA HIGHWAY  
FARMINGTON, NEW MEXICO 87401**

Attachment to notice of  
Intention to Abandon:

Re: Permanent Abandonment  
Well: 8 Lodewick

**CONDITIONS OF APPROVAL**

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."

2. Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 599-8907.

3. The following modifications to your plugging program are to be made:

a) Place the Pictured Cliffs/Fruitland plug from 2338' – 1933'.

b) Place the Kirtland/Ojo Alamo plug from 1570' – 1303' inside and outside the 5 ½" casing.

You are also required to place cement excesses per 4.2 and 4.4 of the attached General Requirements.

Office Hours: 7:45 a.m. to 4:30 p.m.

**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously run or cement circulated to surface during the original casing cementing job or subsequent cementing jobs.