

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

Sundry Notices and Reports on Wells

1. Type of Well
GAS

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

3. Address & Phone No. of Operator

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

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

Surf: Unit J (NWSE), 1650' FSL & 1840' FEL, Section 31, T27N, R7W, NMPM

RECEIVED

DEC 15 2009

Bureau of Land Management
Farmington Field Office

5. Lease Number
SF - 080511
6. If Indian, All. or
Tribe Name
7. Unit Agreement Name

8. Well Name & Number
Harrington 9

9. API Well No.

30-039-25503

10. Field and Pool

Otero Cha/Blanco MV/Largo Gal/
Basin Dk

11. County and State
Rio Arriba Co., NM

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

Type of Submission
☒ Notice of Intent

Type of Action
☐ Abandonment

☐ Change of Plans

☒ Other - Tbg replace/Water shut off

☒ Subsequent Report

☐ Recompletion
☐ Plugging

☐ New Construction
☐ Non-Routine Fracturing

**RCVD DEC 22 '09
OIL CONS. DIV.**

☐ Final Abandonment

☐ Casing Repair
☐ Altering Casing

☐ Water Shut off
☐ Conversion to Injection

DIST. 3

13. Describe Proposed or Completed Operations

Burlington Resources would like to request permission to replace bad tbg after isolating water producing interval & plugging or squeezing the water zone. Attached are procedures.

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

Signed Jamie Goodwin Jamie Goodwin Title Regulatory Technician Date 12/14/09

(This space for Federal or State Office use)

APPROVED BY Original Signed: Stephen Mason Title Date DEC 16 2009
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.

**Notify NMOCD 24 hrs
prior to beginning
operations**

NMOCD

to

ConocoPhillips
Harrington #9 (CH/MV/GP/DK)
Water Shut Off

Lat 36° 31' 35.904" N

Long 107° 36' 48.132" W

PROCEDURE

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COPC safety and environmental regulations. Test rig anchors prior to moving in rig.
2. MIRU work over rig. Check casing, tubing, and bradenhead pressures and record them in Wellview.
3. RU blow lines from casing valves and begin blowing down casing pressure. Kill well with 2% KCl, if necessary.
4. ND wellhead and NU BOPE. PU and remove tubing hanger and tag for fill, adding additional joints as needed (tubing currently landed @ 6653', PBTD @ 6758') . Record fill depth in Wellview.
5. TOOH with tubing (details below).

Number	Description
221	2-3/8" 4.7# J-55 Tubing Joints
1	2-3/8" OD (1.78" ID) Seating Nipple
1	2-3/8" 4.7# J-55 Tubing Joint
1	2-3/8" Expendable Check

Use Tuboscope Unit to inspect tubing and record findings in Wellview. Make note of corrosion or scale. LD and replace any bad joints. If needed, contact Rig Superintendent or engineer for acid, volume, concentration, and displacement volume.

6. If fill is tagged, PU bailer and CO to PBTD (6758'). If fill is too hard or too much to bail, utilize the air package. If fill could not be CO to PBTD call Production Engineer to inform how much fill was left and confirm/adjust landing depth.

7. TIH with tubing string, packer, and RBP. Set RBP at 3350'. Sting out of the RBP and move up hole. Set packer at 3340' and pressure test the RBP seal. Unseat packer and test fluid production rate from the Chacra formation using the air package until fluid production rate stabilizes. Make note of water/oil ratio. Contact Production Engineer at the end of this test to share the results or if this process takes longer than one day.

8. Unseat the RBP and move down hole. Set RBP at 4880'. Sting out of the RBP and move up hole. Set packer at 4870' and pressure test the RBP seal. Unseat packer and test fluid production rate from the Mesaverde formation using the air package until fluid production rate stabilizes. Make note of fluid production and compare it to production from the previous tests. Make note of water/oil ratio. Contact Production Engineer at the end of this test to share the results or if this process takes longer than one day.

9. Unseat the RBP and move down hole. Set RBP at 6244'. Sting out of the RBP and move up hole. Set packer at 6234' and pressure test the RBP seal. Unseat packer and test fluid production rate from the Gallup formation using the air package until fluid production rate stabilizes. Make note of fluid production and compare it to production from the previous tests. Make note of water/oil ratio. Contact Production Engineer at the end of this test to share the results or if this process takes longer than one day.

10. Unseat the RBP and TOOH. LD RBP and TIH with tubing and packer to 6750' (Do not set the packer. The packer will be used to determine which perms that the water production in the Dakota is coming from.) Test fluid production rate from the Dakota formation using the air package until fluid production rate stabilizes. Make note of fluid production and compare it to production from the previous tests. Make note of water/oil ratio. Contact Production Engineer at the end of this test to share the results or if this process takes longer than one day.

11. Contact the Production Engineer to plug or squeeze off any high water producing intervals found in the tests.

12. (Verify tubing landing depth with Production Engineer this may change based on plugs.) TIH with tubing using Tubing Drift Procedure. (detail below).

Recommended

Tubing Drift ID:	1.901"
Land Tubing At:	6720'
Land F-Nipple At:	6718'

Number	Description
1	2-3/8" Muleshoe/Expendable Check
1	2-3/8" F-Nipple (ID 1.78")
1	2-3/8" 4.7# J-55 Tubing Joint
1	2-3/8" 4.7# J-55 Pup Joint (2')
~211	2-3/8" 4.7# J-55 Tubing Joints
As Necessary	2-3/8" 4.7# J-55 Pup Joints
1	2-3/8" 4.7# J-55 Tubing Joint

13. Run standing valve on shear tool, load and pressure test tubing to 1000 psig. Pull standing valve.

14. ND BOP, NU wellhead, blow out expendable check. Make swab run if necessary to kick off well. Notify Lease operator to return to well production. RDMO.

Tubing Drift Check

Procedure

1. Set flow control in tubing. With air, on location, use expendable check. With no air on location, use wire line plug.

2. RU drift tool to a minimum 70' line. Drift tool will have an OD of at least the API drift specification of 1.901" for the 2 3/8", 4.7# tubing, and will be at least 15" long. The tool will not weigh more than 10# and will have an ID bore the length of the tool, so fluids may be pumped through the tool if it becomes stuck.

3. Drop the tool into the tubing string and retrieve it after every 2 joints of tubing run in hole. If any resistance to the tool movement is noticed, going in or out, that joint will be replaced.

4. In order to stimulate the plunger lift operation, all equipment must be kept clean and free of debris.

The drift tool should be measured with calipers before each job, to ensure the OD is the correct size for the tubing being checked. The maximum allowable wear of the tool is .003".

Current Schematic

ConocoPhillips

Well Name: HARRINGTON #9

API/ UWI	Surface Legal Location	Field Name	License No.	State/Province	Well Configuration Type	Edit
3003925503		BOH PEXPRO OAS		NEW MEXICO		
Ground Elevation (ft)	Original KB/RT Elevation (ft)	KB- Ground Distance (ft)	KB-Casing Flange Distance (ft)	KB-Tubing Hanger Distance (ft)		
6,034.00	6,046.00	12.00	6,046.00	6,046.00		

Well Config: - 30039255030000, 10/19/2009 8:51:09 AM

ftKB (MD)	Schematic - Actual	Frm Final
0		
12		
311		
312	Surface Casing, 8 5/8in, 8 097in, 12 ftKB, 312 ftKB	
318	Surface Casing Cement, 12-312, 10/20/1995, Cement w/ 336 sx Class B. Circulated 41 bbls to surface.	
1,316		
1,532	Production Casing Cement, 12-1,827, 11/2/1995, Cement w/ 25 sx Class B 65/35	OJO ALAMO, 1,316
1,827	poz followed by 592 sx Class B 65/35 poz and 100 sx Class B neat. Circulated 135 bbls of cement to surface.	KIRTLAND, 1,532
1,829		
1,903		FRUITLAND, 1,903
2,178		PICTURED CLIFFS, 2,178
2,287	Chacra, 12/23/1995, Frac'd w/ 40,000# 12/28 Brady sand and 423,000 scf N2, and 10,122 gals of 25# Linear Gel. (70Q)	
2,659		HUERFANITO BENTONITE, 2,659
3,084	Tubing, 2 3/8in, 4.70lbs/ft, J-55, 12 ftKB, 6,647 ftKB	CHACRA, 3,084
3,161	Chacra, 3,161-3,300, 12/28/1995	
3,300		
3,892		CLIFF HOUSE, 3,892
3,913		MENEFEE, 3,913
4,483	Mesaverde, 12/28/1995, Frac'd w/ 100,000# 20/40 Econoprop and 102,900 gals of Slickwater.	POINT LOOKOUT, 4,483
4,485		
4,830	Mesaverde, 4,485-4,830, 12/28/1995	
4,833	Production Casing Cement, 2,652-4,855, 11/2/1995, Cement w/ 24 sx Class B 65/35	
4,855	poz followed by 479 sx Class B 65/35 poz and 460 sx Class B neat. TOC @ 2652' from CBL	MANCOS, 4,833
4,857		
5,612		
6,031	Gallup, 12/23/1995, Frac screened out as sand was entering the formation.	GALLUP, 5,612
6,097	Gallup, 6,031-6,194, 12/23/1995	
6,194		
6,416		
6,422	Dakota, 12/22/1995, Frac'd w/ 98,000# 20/40 Ottawa sand and 33,000# 20/40 Econoprop and 85,764 gals 35# Linear Gel.	GREENHORN, 6,422
6,427		
6,482	Seating Nipple, 2 3/8in, 4.70lbs/ft, J-55, 6,647 ftKB, 6,648 ftKB	GRANEROS, 6,482
6,544	Tubing Joint, 2 3/8in, 4.70lbs/ft, J-55, 6,648 ftKB, 6,652 ftKB	
6,592	Expendable Check, 2 3/8in, 4.70lbs/ft, J-55, 6,652 ftKB, 6,653 ftKB	
6,647		
6,648	Dakota, 6,544-6,747, 12/22/1995	
6,652		
6,653		
6,747	PBTD, 6,758, CIBP	
6,758		DAKOTA, 6,592
6,760	CIBP, 6,758-6,760	
6,764	Encinal, 6,764-6,780, 12/21/1995	
6,780	Production Casing Cement, 5,088-6,900, 11/2/1995, Cement w/ 25 sx Class B 65/35	
6,853	poz followed by 433 sx Class B 65/35 poz and 100 sx Class B neat. TOC @ 5088' from CBL.	MORRISON, 6,867
6,854	Plugback, 6,853-6,900, 11/2/1995	
6,867	Production Casing, 5 1/2in, 4.892in, 12 ftKB, 6,900 ftKB	
6,899	Plugback, 6,900-6,901, 11/2/1995	
6,900		
6,901	TD, 6,901, 10/31/1995	