

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

NOV 08 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

Farmington Field Office

SF-079947

**SUNDRY NOTICES AND REPORTS ON WELLS of Land**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

**SUBMIT IN TRIPLICATE - Other instructions on page 2.**

1. Type of Well

☐ Oil Well

☒ Gas Well

☐ Other

2. Name of Operator

**ConocoPhillips Company**

3a. Address

**PO Box 4289, Farmington, NM 87499**

3b. Phone No. (include area code)

**(505) 326-9700**

7. If Unit of CA/Agreement, Name and/or No.

8. Well Name and No.

**Helen Jackson #2**

9. API Well No.

**30-045-07723**

10. Field and Pool or Exploratory Area

**Blanco Mesaverde**

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

**Surface**

**UNIT A (NENE), 790' FNL & 1265' FEL, Sec. 33, T29N, R9W**

11. Country or Parish, State

**San Juan**

**New Mexico**

**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA:**

**TYPE OF SUBMISSION**

**TYPE OF ACTION**

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

☐ Acidize

☐ Alter Casing

☐ Casing Repair

☐ Change Plans

☐ Convert to Injection

☐ Deepen

☐ Fracture Treat

☐ New Construction

☒ Plug and Abandon

☐ Plug Back

☐ Production (Start/Resume)

☐ Reclamation

☐ Recomplete

☐ Temporarily Abandon

☐ Water Disposal

☐ Water Shut-Off

☐ Well Integrity

☐ Other

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once Testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

**Burlington Resources requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was held on 11/6/13 w/Bob Switzer, BLM Representative. The Re-Vegetation Plan is attached. A Closed Loop System will be used.**

**OIL CONS. DIV DIST. 3**

**NOV 25 2013**

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

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

**Denise Journey**

Title **Regulatory Technician**

Signature

*Denise Journey*

Date

**11/7/2013**

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

**Original Signed: Stephen Mason**

Title

Date

**NOV 21 2013**

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instruction on page 2)

**NMOCD**

**ConocoPhillips**  
**HELEN JACKSON 2**  
**Expense - P&A**

Lat 36° 41' 14.284" N

Long 107° 46' 53.652" 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 P&A 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 water, if necessary.
4. ND wellhead and NU BOPE. Pressure and function test BOP to 200-300 psi and 1000 psi over SICP to a maximum of 2000 psi or as per COP Well Control Manual. PU and remove tubing hanger.
5. TOOH with tubing (per pertinent data sheet).
6. Change over to equipment for handling 2-3/8" tubing. Change pipe rams to 2-3/8" and retest.
7. Pick up 2-3/8" work string and round trip 3-7/8" watermelon mill to 3810' or as deep as possible.
8. Pick up cement retainer for 4-1/2" J-55 9.5 ppf casing. Set at 3810'. Load hole with water and circulate clean. Pressure test casing to 600 psi and pressure test tubing to 800 psi. If casing does not test, spot or tag subsequent plugs as appropriate. TOH.
9. Rig up wireline and run CBL on 4-1/2" casing under 500 psi pressure.

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 II mixed at 15.6 ppg with a 1.18 cf/sk yield.

**10. Plug 1 (Mesa Verde Perforations, 3810'-3710', 12 Sacks Class B Cement.)**

Mix cement as described above and spot a balanced plug inside the casing to isolate the Mesa Verde perforations. TOOH with tubing.

11. Perforate 3 HSC holes at 3250'. Pull out of hole with wireline.
12. Establish circulation down casing, through squeeze holes, and out intermediate casing annulus valve. Circulate annulus clean.
13. Pick up cement retainer for 4-1/2 J-55 9.5 ppf casing and set at 3200'.

**14. Plug 2 (Chacra Formation Tops, 3250'-3150', 30 Sacks Class B Cement.)**

Mix cement as described above and pump 23 sacks of cement through squeeze holes. Sting out of cement retainer and spot 7 sacks of cement on top of cement retainer.

15. Perforate 3 HSC holes at 2387'. POOH with wireline.

**16. Plug 3 (PC Formation Top and Intermediate Casing Shoe, 2387'-2167', 39 Sacks Class B Cement.)**

Set Cement retainer at 2337'. Mix cement as described above and pump 39 sacks cement through squeeze holes. POOH with tubing.

17. RU free point and cut casing as close to 2100' as possible. POOH and LD cut 4-1/2" casing. Run a 7" gauge ring or casing scraper to 2100' (or top of 4-1/2" casing) If casing does not cut or will not POOH, call Rig Superintendent and Wells Engineer.

18. Run CBL from 2100' to surface to identify TOC on intermediate casing.

**19. Plug 4 (4-1/2" Casing Top and Fruitland Top, 2337'-1683', 119 Sacks Class B Cement.)**

RIH with tubing. Mix cement and spot balanced plug inside casing as described above. Pull up hole.

**20. Plug 5 (Kirtland Formation Top, <sup>1330'-1230'</sup>~~4347'-4217'~~, 29 Sacks Class B Cement.)**

Mix cement and spot balanced plug as described above. TOOH.

21. Perforate 3 HSC holes at <sup>1172'</sup>~~1453'~~ (depth may be adjusted once CBL is run). POOH with wireline.

Combine PC & Fruitland plugs from 2387'-1876'

1172' - 1072'

**22. Plug 6 (Ojo Alamo, ~~1453'-1053'~~, 55 Sacks Class B Cement.)**

Set 7" cement retainer at 1103'. Establish circulation through squeeze holes. Pump 40 sacks. Sting out of cement retainer and spot 15 sacks on top of cement retainer. POOH.

**23. Plug 7 (Surface Casing Shoe, 252' -0', 140 Sacks Class B Cement.)**

RIH and perforate 3 HSC holes at 252'. POOH with wireline. Establish circulation out intermediate casing valve. Set 7" cement retainer at 202'. Mix cement as described above and circulate good cement out casing valve. Sting out of retainer and spot a plug from 202' to surface. Shut in well and WOC. Tag and top out as necessary.

24. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. RDMO, cut anchors, and restore location.



## Schematic - Current

HELEN JACKSON #2

District SOUTH	Field Name NY	API UWI 3004507723	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 11/30/1955	Surface Legal Location 033-029N-009W-A	East/West Distance (ft) 1,265.00	East/West Reference E	North/South Distance (ft) 790.00
		North/South Reference N		

## Vertical - Original Hole, 1/1/2020

MD (ftKB)	Vertical schematic (actual)		Formation Tops
9.8	Drilled 11" to 230', then reamed 15" from surface to 202'		NACIMIENTO
202.1	1; SURFACE CASING; 10 3/4 in; 9,900 in; 10.0 ftKB; 202.0 ftKB	Cement; 10.0-202.0; 11/4/1955; 225 SXS REGULAR CEMENT	
230.0			
1,120.1			OJO ALAMO
1,163.1	EST. TOC @ 1163'		
1,267.1			KIRTLAND
1,732.9			FRUITLAND
2,217.8		Tubing; 1.90 in; 2.50 lb/ft; J-55; 10.0 ftKB; 4,571.0 ftKB	PICTURED CLIFFS
2,338.9	2; INTERMEDIATE CASING; 7 in; 6,460 in; 10.0 ftKB; 2,337.0 ftKB	Cement; 1,163.0-2,337.0; 11/8/1955; TOC EST.	
2,339.9			
2,370.1			LEWIS
3,200.1			CHACRA
3,515.1	TOC @ 3515' w/ BOC @ 3909' FROM TEMP SURVEY (11/18/55)	Cement Squeeze; 3,515.0-3,909.0; 11/17/1955; RETAINER SET @ 3950' AND CEMENT w/ 50 SXS CEMENT. GOT CIRCULATION. RAN TEMP SURVEY, BOC @ 3909 AND TOC @ 3515'	
3,659.9		Cement Squeeze; 3,515.0-3,909.0; 11/17/1955	
3,909.1			
3,912.1			CLIFF HOUSE
3,938.0			MENELEE
3,980.0	Category: Perf; Depth (MD); 3,980.0-4,000.0 TOC @ 4000' FROM TEMP SURVEY (11/18/55)	Fracture; 11/18/1955; Not mapped: stimulation.user2 = Water	
4,000.0	Category: Perf; Depth (MD); 3,980.0-4,176.0	Not mapped: stimulation.user1 = Mesaverde	
4,171.9		30,000 G w/33,000# 20/40 sd. ATP=1400# @ 22 bpm.; 3,880.0-4,172.0	
4,175.9			
4,503.0		Fracture; 11/15/1955; Not mapped: stimulation.user2 = Water	POINT LOOKOUT
4,503.9	Category: Perf; Depth (MD); 4,504.0-4,568.0	Not mapped: stimulation.user1 = Point Lookout	
4,567.9		20,000 G w/30,000# 20/40 sd. ATP=1400# @ 22 bpm.; 4,504.0-4,568.0	
4,570.9			
4,640.1	3; PRODUCTION CASING; 4 1/2 in; 4,090 in; 10.0 ftKB; 4,640.0 ftKB	Cement; 4,000.0-4,640.0; 11/11/1955; TOC BY TEMP SURVEY @ 4000' 11/16/55	
4,650.9			

## Proposed Schematic HELEN JACKSON #2

District SOUTH	Field Name MV	API / UWI 3004507723	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 11/3/1955	Surf Loc 033-029M-009W-A	East/West Distance (ft) 1,265.00	East/West Reference E	N/S Dist (ft) 790.00
				North/South Reference N

### Vertical - Original Hole, 1/1/2020 6:45:00 AM

Vertical schematic (actual)	MD (ftKB)	Formation Tops
Cement Retainer; 202.0-203.0	9.6 203.1	NACIMIENTO
Cement Retainer; 1,103.0-1,104.0	252.0 1,103.0	
	1,120.1	OJO ALAMO
	1,163.1	
	1,267.1	KIRTLAND
	1,683.1	FRUITLAND
	2,099.7	
Cement Retainer; 2,337.0-2,338.0	2,167.0 2,335.9	PICTURED...
	2,339.9	
	2,367.1	LEWIS
Cement Retainer; 3,200.0-3,201.0	3,200.1	CHACRA
Cement Retainer; 3,810.0-3,811.0	3,250.0 3,710.0 3,811.0	
Fracture; 11/18/1955; Mesaverde 30,000 G w/33,000# 20/40 sd. ATP=1400# @ 22 bpm.	3,909.1 3,936.0 4,000.0	CLIFF HOU... MENEFFEE
Fracture; 11/15/1955; Point Lookout 20,000 G w/30,000# 20/40 sd. ATP=1400# @ 22 bpm.	4,175.9 4,503.9 4,640.1	POINT LOO...

**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

Attachment to notice of  
Intention to Abandon:

**Re: Permanent Abandonment  
Well: 2 Helen Jackson**

**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) 564-7750.
3. The following modifications to your plugging program are to be made:
  - a) Combine Pictured Cliffs & Fruitland plugs from 2387'-1870'.
  - b) Place the Kirtland plug from 1330'-1230'.
  - c) Perforate 3 HSC holes at 1172'.
  - d) Place Ojo Alamo plug from 1172'-1072'.

\* If 4.5" casing cannot be pulled at  $\pm 2100'$ , contact BLM Engineer.

\*\*See attachment for additional information.

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.