

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 21 2013

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

Farmington Field Office  
Bureau of Land Management

5. Lease Serial No. **SF-078049 A**

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

6. If Indian, Allottee or Tribe Name

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

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other		7. If Unit of CA/Agreement, Name and/or No.
2. Name of Operator <b>ConocoPhillips Company</b>		8. Well Name and No. <b>Hardie 2</b>
3a. Address <b>PO Box 4289, Farmington, NM 87499</b>	3b. Phone No. (include area code) <b>(505) 326-9700</b>	9. API Well No. <b>30-045-20112</b>
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) <b>Surface    Unit D (NWNW), 970' FNL &amp; 850' FWL, Sec. 28, T29N, R8W</b>		10. Field and Pool or Exploratory Area <b>Basin Dakota</b>
		11. Country or Parish, State <b>San Juan    New Mexico</b>

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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 recomplate 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 recompletion 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.)

**ConocoPhillips requests permission to P&A the subject well per the attached procedure, current and proposed wellbore schematics. The Pre-Disturbance Site Visit was completed on 5/15/13 with Robert Switzer. The Re-Vegetation Plan is attached.**

RCVD JUN 4 '13  
OIL CONS. DIV.  
DIST. 3

Notify NMOCD 24 hrs  
prior to beginning  
operations

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed) **Dollie L. Busse** Title **Staff Regulatory Technician**

Signature *Dollie L. Busse* Date **5/21/13**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by **Original Signed: Stephen Mason** Title \_\_\_\_\_ Date **MAY 24 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.

NMOCD AV

**ConocoPhillips**  
**HARDIE 2**  
**Expense - P&A**

Lat 36° 42' 4.108" N

Long 107° 41' 13.236" W

**PROCEDURE**

**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.**

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. When an existing primary valve (i.e. casing valve) is to be used, the existing piping should be removed and replaced with the appropriate piping for the intended operation.
4. RU blow lines from casing valves and begin blowing down casing pressure.
6. ND wellhead and NU BOPE. Pressure and function test BOP. PU and remove tubing hanger.
7. TOOH with 2-3/8" tubing (per pertinent data sheet).

**Tubing:**                    Yes                                    **Size:**                    2-3/8"                    **Length:**                    5,390'

8. MU bit and bit sub assembly for 4-1/2" casing (4" ID) and drill out composite bridge plug at 5,420'. TOOH.

Round trip watermelon mill to composite bridge plug @ 7,249' or as deep as possible.

**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.**

**8. Plug 1 (Dakota perforations, formation top, and Graneros formation top, 7149-7249', 12 Sacks Class B Cement)**  
TIH with tubing and pressure test casing to 560 psi and tubing to 800 psi (using wireline to test tubing). If casing does not test, tag subsequent plugs as appropriate. Mix 11 sxs of Class B cement and spot a balanced plug on top of the CBP to isolate the Dakota perforations, formation top, and the Graneros formation top. PUH.

**9. Plug 2 (Gallup formation top, <sup>6202 6102</sup>~~6364-6484~~', 12 Sacks Class B Cement)**  
Mix 12 sxs of Class B cement and spot a balanced plug inside the casing to isolate the Gallup formation top. PUH.

**10. Plug 3 (Mancos formation top, 5600-5700', 12 Sacks Class B Cement)**  
Mix 12 sxs of Class B cement and spot a balanced plug inside the casing to isolate the Mancos formation top. PUH.

**11. Plug 4 (Mesa Verde formation top, 4550-4650', 12 Sacks Class B Cement)**  
Mix 12 sxs of Class B cement and spot a balanced plug inside the casing to isolate the Mesa Verde formation top. PUH.

**11. Plug 5 (Chacra formation top, 3902-4002', 12 Sacks Class B Cement)**  
Mix 12 sxs of Class B cement and spot a balanced plug inside the casing to isolate the Chacra formation top. POOH.

**12. Plug 6 (Intermediate Shoe, 3093-3193', 30 Sacks Class B Cement)**  
RU wireline and shoot 3 HSC holes at 3,193'. PU CR for 4-1/2" OD (4" ID) and set at 3,143'. TIH with tubing, sting into CR and establish circulation through the squeeze holes. Mix 30 sxs of Class B cement. Squeeze 19 sxs into the HSC holes and leave 11 sxs inside the casing to isolate the Intermediate shoe. POOH

**13. Plug 7 (Pictured Cliffs formation top, 2940-3040', 26 Sacks Class B Cement)**

RU wireline and shoot 3 HSC holes at 3,040'. PU CR for 4-1/2" OD (4" ID) and set at 2,990'. TIH with tubing, sting into CR and establish circulation through the squeeze holes. Mix 26 sxs of Class B cement. Squeeze 15 sxs into the HSC holes and leave 11 sxs inside the casing to isolate the Pictured Cliffs formation top. POOH

14. RU free-point and cut production casing at 2,800'. POOH and LD 4-1/2" casing. If casing does not cut low or won't POOH, call Rig Supervisor and Production Engineer for path forward

15. Run watermelon mill for 7" OD (6.456" ID) casing to top of 4-1/2" casing @ 2,800' or as deep as possible.

16. Pressure up the 7" casing to 500# and hold during the CBL. Run CBL from 2,800' to surface to confirm top of cement. Contact Rig Supervisor and Production Engineer with new TOC.

**17. Plug 8 (Liner Top and Fruitland Coal formation top, 2800-<sup>2618</sup>2850', 78 Sacks Class B Cement)**

Mix 78 sxs of Class B cement and spot a balanced plug inside the casing to isolate the liner top and Fruitland Coal formation top. PUH.

**18. Plug 9 (Ojo Alamo and Kirtland formation tops, 1890-2138', 58 Sacks Class B Cement)**

Mix 58 sxs of Class B cement and spot a balanced plug inside the casing to isolate the Ojo Alamo and Kirtland formation tops. POOH.

**19. Plug 10 (Nacimiento formation top, <sup>645 545</sup>639-739', 55 Sacks Class B Cement)**

RU wireline and shoot 3 HSC holes at <sup>645</sup>739'. PU CR for 7" OD (6.456" ID) and set at <sup>545</sup>689'. TIH with tubing, sting into CR and establish circulation through the squeeze holes. Mix 55 sxs of Class B cement. Squeeze 26 sxs into the HSC holes and leave 29 sxs inside the casing to isolate the Nacimiento. POOH

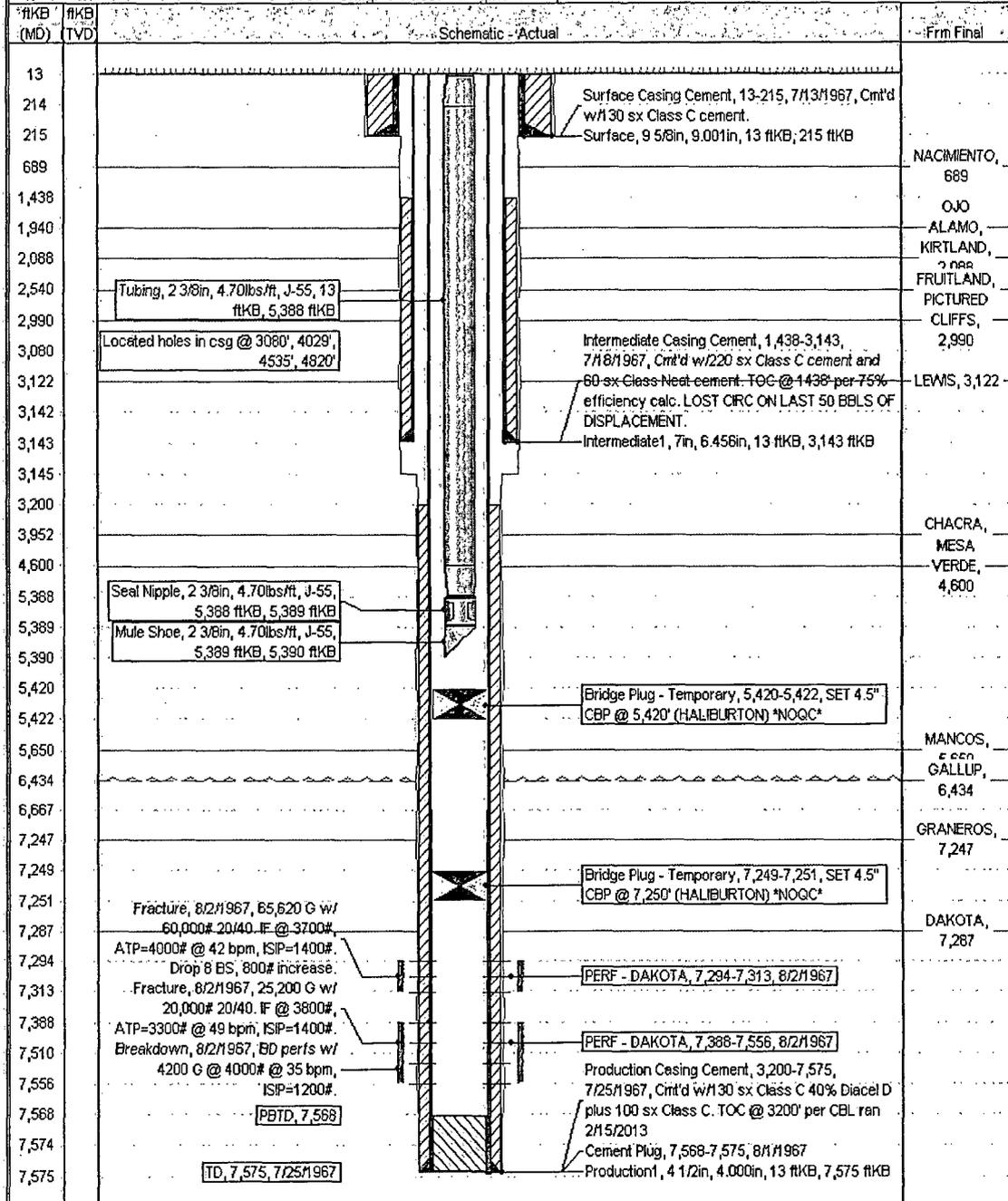
**20. Plug 11 (Surface Plug, 0-265', 113 Sacks Class B Cement)**

Perforate 3 HSC holes at 265'. Establish good circulation out the bradenhead with water and circulate annulus clean. Mix 113 sxs of Class B cement and pump down the intermediate casing to circulate good cement out the bradenhead. Shut in well and WOC.

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

District SOUTH	Field Name DK	API / UWI 3004520112	County SAN JUAN	State/Province NEW MEXICO	Edit
Original Spud Date 7/13/1967	Surface Legal Location NMPM,028-029N-008W-D	East/West Distance (ft) 850.00	East/West Reference W	North/South Distance (ft) 970.00	North/South Reference N

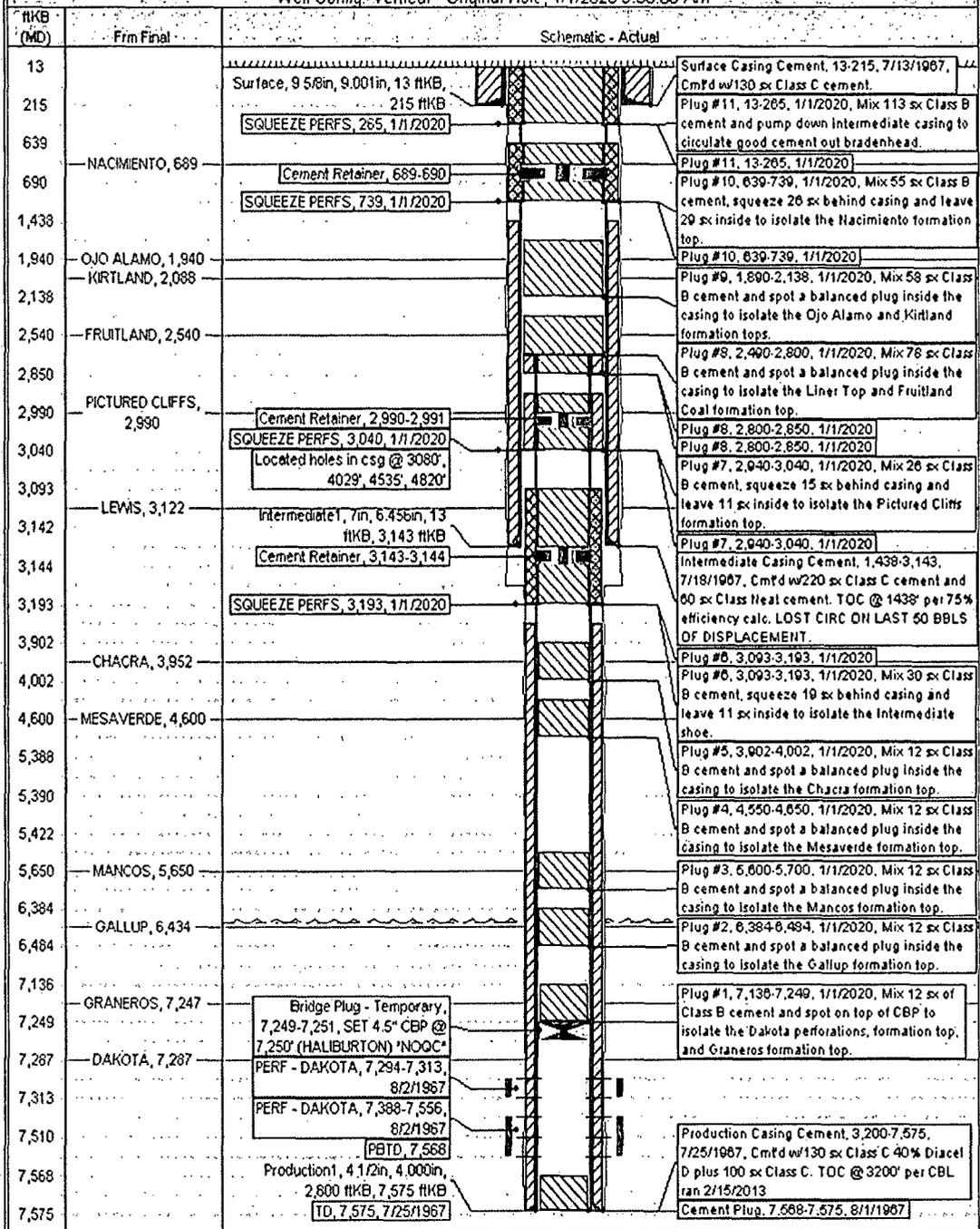
Well Config: Vertical - Original Hole, 3/26/2013 7:06:40 AM



Well Name: HARDIE #2

API/UTM 3004520112	Current Log# (00000) NMPM.028-029H-008W-D	Permit No. DK	License No.	State Province NEW MEXICO	Well Orientation Type Vertical	Edt
Ground Elevation (ft) 6,407.00	Original B.P.T. Elevation (ft) 6,420.00	11-Casing Depth (ft) 13.00	11-Casing Flange Depth (ft) 6,420.00	11-Tubing Hanger Depth (ft) 6,420.00		

Well Config: Vertical - Original Hole, 1/1/2020 9:30:00 AM



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 Hardie

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) Place the Gallup plug from 4553' – 4453'.
  - b) Place the Liner Top/Fruitland plug from 2800' – 2618'.
  - c) Place the Nacimiento plug from 645'- 545' inside and outside the 7" 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.