

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

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.*

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

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

Surface

UL: D (NWNW), 970' FNL & 850' FWL, Sec. 28, T29N, R8W

5. Lease Serial No.

SF-078049-A

6. If Indian, Allottee or Tribe Name

**RCVD DEC 2 '13
OIL CONS. DIV.**

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

DIST. 3

8. Well Name and No.

Hardie 2

9. API Well No.

30-045-20112

10. Field and Pool or Exploratory Area

Basin-DK

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

☐ Acidize

☐ Deepen

☐ Production (Start/Resume)

☐ Water Shut-Off

☒ Subsequent Report

☐ Alter Casing

☐ Fracture Treat

☐ Reclamation

☐ Well Integrity

☐ Casing Repair

☐ New Construction

☐ Recomplete

☐ Other

☐ Final Abandonment Notice

☐ Convert to Injection

☒ Plug and Abandon

☐ Temporarily Abandon

☐ 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 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.)

10/15/13 - Procedure was to cut casing @ 2800' & run CBL. Looks like mud behind casing, asked to perf to see if can circ.

If can circ, will use mud, cut it, pull casing & log, if cannot circ, will try to pump cement behind 7" casing. CBL shows TOC @ 2405'. Called Brandon Powell w/ OCD & got approval. Walter Gage is on site for BLM. Crew called back & said after perf, there is cement behind & inside 7" Called Brandon back @ OCD to make sure he is still ok to cut off @ 2400'. Got approval.

10/16/13 - asked to combine plugs 6&7 due to only having 3' to perf between them, Brando Powell w/ Ocd was called and gave verbal approval after review of 2/2013 CBL but did ask to be called back after circ was achieved. This call was made to notify OCD.

10/21/13 - Ran CBL on 7" & found no cement behind plug 9 area, asked to change from balance plug to inside/outside, perf @ 2138' & set retainer. Called Brandon w/ OCD and he gave verbal approval.

The subject well was P&A'd on 10/25/13 per the above notifications & attached report.

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

Kenny Davis

Title **Staff Regulatory Technician**

Signature

Date

11/22/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

ACCEPTED FOR RECORD

NOV 25 2013

FARMINGTON FIELD OFFICE

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.

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

alb

A-PLUS WELL SERVICE, INC.

P.O. BOX 1979
Farmington, New Mexico 87499
505-325-2627 *fax: 505-325-1211

Conoco Phillips
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970' FNL and 850' FWL, Section 28, T-29-N, R-8-W
San Juan County, NM
Lease Number: SF-078049
API #30-045-20112

Plug and Abandonment Report Notified NMOCD and BLM on 10/4/13

Plug and Abandonment Summary:

- Plug #1** with 24 sxs (28.32 cf) Class B cement inside casing from 7244' to 6928' to cover the Dakota and Graneros tops. Tag TOC at 7117'.
- Plug #2** with 32 sxs (37.76 cf) Class B cement inside casing from 6212' to 5791' to cover the Gallup top. Tag TOC at 5077'.
- Plug #3** with 32 sxs (37.76 cf) Class B cement inside casing from 5712' to 5291' to cover the Mancos top. Tag TOC at 5541'.
- Plug #4** with 32 sxs (37.76 cf) Class B cement with 2% CaCl inside casing from 4653' to 4232' to cover the Mesaverde top. Tag TOC at 4311'.
- Plug #5** with 32 sxs (37.76 cf) Class B cement inside casing from 4005' to 3584' to cover the Chacra top. Tag TOC at 3667'.
- Plug #6 (combined #7)** with CR at 3145' spot 67 sxs (79.06 cf) Class B cement 36 sxs in annulus, 4 sxs below CR and 27 sxs above CR from 3193' to 2790' to cover the Intermediate shoe and Pictured Cliffs tops. Tag TOC at 2787'.
- Plug #8** with 50 sxs (59.00 cf) Class B cement inside casing from 2787' to 2299' with 30 sxs in 4.5" casing, 20 sxs in 7" casing to cover the Liner top and Fruitland top. Tag TOC at 2339'.
- Plug #9** with CR at 2097' spot 142 sxs (167.56 cf) Class B cement inside casing from 2138' to 1743' with 64 sxs in annulus, 8 sxs below CR, 70 sxs above CR to cover the Ojo Alamo and Kirtland tops. Tag TOC at 1818'.
- Plug #10** with CR at 595' spot 76 sxs (89.68 cf) Class B cement inside casing from 645' to 393' with 26 sxs in annulus, 10 sxs below CR, 40 sxs above CR to cover the Nacimiento top. Tag TOC at 386'.
- Plug #11** with CR at 197' spot 139 sxs (164.02 cf) Class B cement in annulus from 265' to surface. Continue to mix and pump 55 sxs from 197' to surface to cover the surface casing shoe.
- Plug #12** with 26 sxs Class B cement top of casing and install P&A marker.

Plugging Work Details:

- 10/7/13 Rode rig equipment to location. Spot in and RU. Check well pressures: tubing 300 PSI, casing 550 PSI and bradenhead 0 PSI. RU A-Plus relief lines and blow well down. ND wellhead and NU kill spool. Pressure test pipe rams to 300# and 1500#, OK. Pull tubing hanger install stripping rubber. Attempt to pump 76 bbls with 4 bpm at 1200#. Establish rate of 3.5 bpm at 800 PSI lost circulation. SI well. SDFD.
- 10/8/13 Bump test H2S equipment. Open up well; no pressures. Perform function test on BOP. TOH and tally 170 jnts, 2-3/8" tubing, 4.7# EUE total 5376'. RU Air package. TIH and tally PU 174 jnts, A-Plus tubing, EUE 4.7#, 2-3/8" tubing tag CIBP at 5420'. LD 1 jnt with 3-7/8" cone bit and bit sub on bottom. PU power swivel and install 2-3/8" stripping rubber. Drill 6" on CIBP. PUH and rolled well clean. SI well. SDFD.

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Plugging Work Details (continued):

- 10/9/13 Bump test H2S equipment. Check well pressures: tubing and bradenhead 0 PSI and casing 100 PSI. RU air package. Wait on circulation. Drill out CIBP at 5420'. PU 2 jnts with PS, no tag. RD power swivel. Continue to TIH and tally 56 jnts (A-Plus) tubing 2-3/8" (232 jnts total). Tag CIBP at 7244'. LD 1 jnt, PU 2-10' subs. Pump 120 bbls, no circulation. LD 2-10' and 1 jnt. TOH with 115 stands, LD bit sub and bit. PU 4' plugging sub, TIH with 115 stands. RU sandline and RIH establish fluid level at 1500'. Spot plug #1 with estimated TOC at 6928'. SI well. SDFD.
- 10/10/13 Bump test H2S equipment. Open up well; no pressures. TIH and tag TOC at 7117'. RU sandline, RIH find fluid level at 1500 PSI. Spot plug #2 with estimated TOC at 5791'. WOC. TIH and tag cement stringer at 5077'. SI well. SDFD due to weather.
- 10/11/13 Bump test H2S equipment. Open up well; no pressures. RU power swivel. Tag TOC at 5077'. Attempt to circulate with 60 bbls, no circulation. Reverse circulate. Drilled out stinger from 5077' to 5079'. TIH and tag TOC at 6011'. RU sandline and establish fluid level at 1500'. Spot plug #3 with estimated TOC at 5291'. SI well. SDFD.
- 10/14/13 Bump test H2S equipment. Open up well; no pressures. Function test BOP. TIH and tag TOC at 5541'. Establish circulation. Spot plug #4 with estimated TOC at 4232'. TIH and tag TOC at 4311'. Establish circulation. Spot plug #5 with estimated TOC at 3584'. SI well. SDFD.
- 10/15/13 Bump test H2S equipment. Open up well; no pressures. TIH with 4.5" string mill to 3667'. Pressure test casing to 800 PSI, bled down to 0 in 5 minutes. Perforate 3 HSC holes at 3193'. Establish rate of 1.5 bpm at 1000#. TIH with 4.5" DHS CR and set at 3145'. Pressure test tubing to 1000#, OK. Establish circulation. Pressure test casing to 800 PSI, bled down to 0 in 5 minutes. Establish rate of 1-1/4 bpm at 800 PSI. Note: BLM and NMOCD approved to combine plugs. Spot plug #6 combined with #7 estimated TOC at 2790'. SI well. SDFD.
- 10/16/13 Bump test H2S equipment. Open up well; no pressures. TIH and tag TOC at 2787'. Ran CBL from 2787' to 1000', estimated TOC at 2420'. Wait on orders. Note: J. Morris, COPC received approval for procedure change. Perforate 3 HSC holes at 2718'. Attempt to establish rate, pressure test to 800 PSI no rate. Perforate 3 HSC holes at 2718'. Attempt to establish rate, no rate. Pressure test to 800 PSI. Note: J. Morris, COPC received approval for procedure change. ND BOP and wellhead. Weld on slip collar on 4.5" casing. NU x-over spool and kill spool, BOP. SI well. SDFD.
- 10/17/13 Bump test H2S equipment. Open up well; no pressures. ND BOP. RU 6' 4.5" sub, and attempt to pull slips, unable to pull. RU High Desert. Welder cut plate top of slips, work plate off. Attempt to pull slips, still unable. RIH with Jet Cutter and cut casing at 2400'. Strip on x-over spool. RU San Juan Casing. SI well. SDFD.

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Plugging Work Details (continued):

- ~~10/21/13~~ Bump test H2S equipment. Open up well; no pressures. TIH with 7" string mill. Establish circulation. Ran CBL from 2400' to surface. Establish circulation. Spot plug #8 with estimated TOC at 2299'. WOC. SI well. SDFD.
- 10/22/13 Bump test H2S equipment. Open up well; no pressures. TIH and tag TOC at 2339'. Note: BLM and NMOCD approved procedure change. Attempt pressure test got circulation out bradenhead, no test. Perforate 3 HSC holes at 2138'. TIH with 7" DHS CR and set at 2097'. Establish circulation. Attempt to pressure test casing, establish circulation out bradenhead, no test. Sting into CR and establish rate of 3 bpm at 800 PSI. Spot plug #9 with estimated TOC at 1743'. WOC. TIH and tag TOC at 1818'. Attempt to pressure test casing establish circulation out bradenhead, no test. Perforate 3 HSC holes at 645'. TIH with 7" DHS CR and set at 595'. Attempt to pressure test casing establish circulation out bradenhead 2 bpm at 500 PSI. Spot plug #10 with estimated TOC at 393'. Reverse circulate at 311' with 4 bbls no cement. SI well. SDFD.
- 10/24/13 Bump test H2S equipment. Open up well; no pressures. TIH and tag TOC at 386'. Establish circulation. Perforate 4 holes at 265'. TIH with DHS CR and set at 197'. Establish circulation. Pressure test casing to 800 PSI for 30 minutes. Establish circulation. Spot plug #11 with estimated TOC at surface. Reverse circulate. Dig out wellhead. WOC. SI well. SDFD.
- 10/25/13 Bump test H2S equipment. Open up well; no pressures. TIH tag TOC in 7" casing with tally tape at 6'. ND BOP and kill spool. RU High Desert. Cut off wellhead. Top off casing. Spot plug #12 and install P&A marker. RD and MOL.

Walter Gage, BLM representative, was on location.
Jim Morris, MVCI representative, was on location.