

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

JAN 10 2017

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

5. Lease Serial No. **NM-021116**

6. If Indian, Allottee or Tribe Name

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.

Farmington Field Office
Bureau of Land Management

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well
 Oil Well Gas Well Other

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

8. Well Name and No. **Redfern 4**

2. Name of Operator
ConocoPhillips Company

9. API Well No. **30-045-07441**

3a. Address
PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)
(505) 326-9700

10. Field and Pool or Exploratory Area
Basin Dakota

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Surface Unit I (NESE), 1580' FSL & 1010' FEL, Sec. 16, T28N, R11W

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			
<input 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 checked="" 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 checked="" 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 recomplete 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.)

The subject well was P&A'd on 12/28/2016 per the attached notifications and report.

(See Attached)

OIL CONS. DIV DIST. 3

JAN 19 2017

ACCEPTED FOR RECORD

JAN 17 2017

FARMINGTON FIELD OFFICE

BY: *[Signature]*

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

Dollie L. Busse

Title **Regulatory Technician**

Signature *[Signature]*

Date **1/10/2017**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

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.

Redfern 4 (3004507441)

30-045-07441

P&A Subsequent Sundry

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12/07/2016 – Contacted Charlie Perrin & Monica Kuehling/OCD, Thomas Vermersch/OCD onsite (Darrell Priddy/BLM onsite) re CBL findings. Requested permission to chg

Plugs 2&3 to inside/outside plugs. On Plug 3 plan to pump outside cmt plug to reach est 100' inside INT shoe, displace cmt inside 5 ½" csg into INT csg, cut depth est @ 4076'. Rec'vd verbal OK to proceed.

12/09/2016 – Contact AG/BLM (D. Priddy onsite) & Monica Kuehling/OCD re Mancos plug. Perf @ 4190', EOT @ 4226', leave 6sx cmt inside csg, balance 26sx, displace to perfs; should give 200' cmt in annulus to cover shoe. Verbal OK to proceed.

12/12/2016 – Contacted Jack Savage/BLM & Brandon Powell/OCD. Perf @ 4173', pump 17sx cmt outside csg & displace cmt to the perf holes. Wait to run CBL to confirm cmt coverage into the shoe. Verbal OK to proceed.

12/13/2016 – Contacted AG/BLM (D. Priddy onsite) & Charlie Perrin/Monica Kuehling/OCD. Attempted to cut & pull 5 ½" csg from 4060', unbolted 5 ½" csg spool in the attempt to pull 5 ½" csg. Pulled 120K #, unable to get any stretch in csg. Reviewed CBL & determined log indicates possible cmt between 5 ½" csg & 7 5/8" csg @ 20' below WH. Attempted to get 5 ½" csg to circ up & out of the INT valve; unsuccessful. Loaded 5 ½" x 7 5/8" annulus from INT valve & the annulus, took less than .25bbl to load, indicating possible shallow annulus bridge.

12/14/2016 – Plan to leave 5 ½" csg in well for remainder of P&A operation & proceed w/all inside/outside plugs for upper planned plugs. Plan to perf 5 ½" csg @ 4150', set a 5 ½" CR @ 4055' & shoot another set of perfs @ 4005' in the 5 ½" csg to obtain isolation of the INT shoe @ 4173'. Will attempt suicide squeeze to get cmt between 5 ½" x 7 5/8" csg annulus from 4150'-4005'. If unsuccessful plan to pump a min of 22sx cmt below 5 ½" CR @ 4055'. Verbal OK to proceed.

12/15/2016 – Contacted Darrell Priddy/BLM onsite & Charlie Perrin/OCD. Plan to perf the 5 ½" csg @ 3995' & set a CR @ 3945', perf the 5 ½" csg @ 1000' & attempt to circ cmt below the retainer @ 3945' thru perf @ 3995' between 5 ½" csg & 7 5/8" csg up to perf holes @ 1000'. If successful, will WOC and run CBL tomorrow to confirm cmt coverage & complete MV, CHK, FRC & PC plugs as inside/outside plugs perf'ing each plug 50' below perspective tops, squeezing under 5 ½" CR's, focusing on getting cmt isolation outside the 7 5/8" csg on those plugs. Verbal OK to proceed.

12/20/2016 – Contacted Brandon Powell/OCD & agreed to attempt to gain circ from Kirtland perf to the surface. If unsuccessful plan to split the OJO & Kirtland plug to ensure coverage. Verbal OK to proceed.

12/21/2016 – Contacted Brandon Powell/OCD & agreed to perf as planned & complete the OJO plug.

12/27/2016 – Contacted AG/BLM & Brandon Powell/OCD re surface plug. Perf @ 222', CR @ 172', shoe @ 170'. No circulation, pumped cmt, well is on vacuum. Requested permission to shoot @ CR & try to get circ & pump 50sx. Verbal approval to proceed.

A-PLUS WELL SERVICE, INC.

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

Conoco Phillips
Redfern #4

December 28, 2016
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1580' FSL and 1010' FEL, Section 16, T-28-N, R-11-W
San Juan County, NM
Lease Number: NM-021116
API #30-045-07441

Plug and Abandonment Report
Notified NMOCD and BLM on 12/5/16

Plug and Abandonment Summary:

- Plug #1** with CR at 5964' spot 17 sxs (20.06 cf) Class B cement from 5964' to 5814' to cover the Dakota top.
- Plug #2** with squeeze holes at 5201' and CR at 5151' spot 33 sxs (38.94 cf) Class B cement from 5201' to 4996' with 15 sxs in annulus, 6 sxs below CR and 12 sxs above CR to cover the Gallup top.
- Plug #3** with squeeze holes at 4304' and CR at 4254' spot 34 sxs (40.12 cf) Class B cement from 4304' to 4254' with 28 sxs in annulus, 6 sxs below CR and displace to CR to cover the Mancos top and intermediate casing shoe top.
- Plug #3a** with squeeze holes at 4252' spot 34 sxs (40.12 cf) Class B cement from 4254' to 5954' to cover the Mancos and intermediate casing shoe top. Tag TOC at 4246'.
- Plug #3b** with squeeze holes at 4190' spot 26 sxs (30.68 cf) Class B cement from 4244' to 4015' to cover the Mancos top and intermediate casing shoe top. Tag TOC at 4185'.
- Plug #3c** with squeeze holes at 4173' spot 20 sxs (23.6 cf) Class B cement from 4185' to 4009' to cover the Intermediate casing shoe. Tag TOC at 4170'.
- Plug #3d** with squeeze holes at 4005' and 4055' and CR at 4025' spot 11 sxs (12.98 cf) Class B cement from 4055' to 3999' with 4 sxs below CR, 4 sxs in annulus and 3 sxs above CR to cover the casing shoe. Tag TOC at 3999'.
- Plug #3e** with squeeze holes at 3995', 1000' and CR at 3883' spot 260 sxs (306.8 cf) Class B cement from 3995' to 1000' in intermediate casing displace 12 sxs below CR and 254 sxs in annulus.
- Plug #4** with squeeze holes at 3150' spot 34 sxs (40.12 cf) Class B cement from 3200' to 2900' to cover the Mesaverde top. Tag TOC at 2900'.
- Plug #5** with squeeze holes at 2608' and CR at 2558' spot 50 sxs (59.00 cf) Class B cement from 2608' to 2453' with 32 sxs in annulus, 6 sxs below CR and 12 sxs above CR to cover the Chacra top.
- Plug #6** with squeeze holes at 1632' and CR at 1582' spot 50 sxs (59.00 cf) Class B cement from 1632' to 1477' with 32 sxs in annulus, 6 sxs below CR and 12 sxs above CR to cover the Pictured Cliffs top.
- Plug #7** with squeeze holes at 1331' spot 56 sxs (66.08 cf) Class B cement from 1389' to 895' to cover the Fruitland top. Tag TOC at 903'.
- Plug #8** with squeeze holes at 590' and CR at 542' spot 122 sxs (143.96 cf) Class B cement from 590' to 384' with 31 sxs in annulus circulate 35 sxs to pit till good cement out intermediate casing left 50 sxs in intermediate casing, 6 sxs below CR and displace to cover the Kirtland and 7-5/8" IM casing.
- Plug #8a** with 18 sxs (21.24 cf) Class B cement from 542' to 384' to cover the Kirtland top.
- Plug #8b** with squeeze holes at 400' and CR at 352' spot 51 sxs (60.18 cf) Class B cement from 400' to 211' with 29 sxs in annulus, 6 sxs below CR and 16 sxs above CR to cover the Ojo Alamo top.
- Plug #9** with squeeze holes at 222' and CR at 172' spot 40 sxs (47.2 cf) Class B cement from 222' to 172' with 34 sxs in annulus, 6 sxs below CR displace to CR to cover the surface casing shoe.

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Plug #9a with squeeze holes at 170' and CR at 150' and 130' spot 64 sxs (75.52 cf) Class B cement from 170' to 130' with 59 sxs in annulus and 5 sxs below CR, displace to CR.

Plug #9b with 24 sxs (28.32 cf) Class B cement from 130' to surface.

Plug #10 with 69 sxs Class B cement top off casings and install P&A marker with coordinates N 36° 39.564' W 108° 00.218'.

Plugging Work Details:

- 12/5/16 Rode rig and equipment to location. Spot in and RU. Bump test H2S equipment. Check well pressures: tubing 126 PSI, casing 213 PSI and IM casing 153 PSI, bradenhead was open when showed up to location. RU relief lines. ND wellhead. NU BOP and kill spool. Pressure test pipe rams to 1000 PSI, OK. Pull tubing hanger and install 2-3/8" stripping and wiping rubber. TOH and tally 194 joints of 2-3/8" EUE tubing, total tally 6030'. SI well. SDFD.
- 12/6/16 Bump test H2S equipment. Check well pressures: no tubing, casing 171 PSI, IM casing 6 PSI and bradenhead 1 PSI. Blow well down. Function test BOP. RU A-Plus wireline. RIH with 5-1/2" GR to 6000'. RD wireline. PU 5-1/2" Select CR and set at 5964'. Pressure test tubing to 1000 PSI, OK. Establish circulation. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. Ran CBL from 5964' to surface, found TOC at 5210', no cement to surface. Establish circulation. **Spot plug #1** with calculated TOC at 5814'. SI well. SDFD.
- 12/7/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI, IM casing 2 PSI and bradenhead 3 PSI. Function test BOP. Wait on orders. Note: Jim Morris, MVCI, received approval from NMOCD and BLM on procedure change. RU A-Plus wireline. Perforate 3 HSC holes at 5201'. Establish rate of 2.5 bpm at 1000 PSI. PU 4-1/2" Select CR and set at 5151'. Establish rate of 2 bpm at 1000 PSI. **Spot plug #2** with calculated TOC at 4996'. RU A-Plus wireline. Perforate 3 HSC holes at 4304'. PU 4-1/2" Select CR and set at 4254'. **Spot plug #3** with calculated TOC at 4254'. Reverse circulate. SI well. SDFD.
- 12/8/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI, IM casing 3 PSI and bradenhead 5 PSI. Function test BOP. RU A-Plus wireline. Ran CBL from 4254' to 4000', no cement. Wait on orders. Note: Jim Morris, MVCI received approval from NMOCD and BLM on procedure change. Perforate 3 HSC squeeze holes at 4252', establish rate of 2 bpm at 1200 PSI. Establish circulation. **Spot plug #3a** with calculated TOC at 5954'. Establish circulation with 1 bbl of water, shut in casing and displace cement with 7 bbls of water to perms squeezing 34 sxs in annulus, ending pressure at 800 PSI. SI well. SDFD.
- 12/9/16 Bump test H2S equipment. Check well pressures: tubing and casing 0 PSI, IM casing 9 PSI and Bradenhead 10 PSI. Function test BOP. TIH and tag TOC at 4246'. RU A-Plus wireline. Ran CBL from 4213', unable to get to 4246' no cement at shoe. Wait on orders. Reverse circulate. RU A-Plus wireline. Ran CBL from 4244' to 4000' found TOC at 4220'. Wait on orders. Note: Jim Morris, MVCI received approval from NMOCD and BLM on procedure change. Perforate 3 HSC squeeze holes at 4190'. Establish circulation. **Spot plug #3b** with calculated TOC at 4015'. Establish circulation. SI well. SDFD.

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Plugging Work Details (continued):

- 12/12/16 Bump test H2S equipment. Check well pressures: tubing 0 PSI, casing 65 PSI, IM casing and bradenhead 19 PSI. Function test BOP. TIH and tag TOC at 4185'. Reverse circulate well clean. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. Ran CBL from 4185' to 4000', no cement behind the 5-1/2". Wait on orders. Note: Jose Morales, COPC, received approval from BLM and NMOCD on procedure change. Perforate 4 HSC squeeze holes at 4173'. Establish rate of 2 bpm at 1300 PSI. Establish circulation. **Spot plug #3c** with calculated TOC at 4009'. Establish circulation. SI well. SDFD.
- 12/13/16 Bump test H2S equipment. Check well pressures: tubing and casing 0 PSI, IM casing and bradenhead 6 PSI. Function test BOP. TIH and tag TOC at 4170'. Reverse circulate well clean. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. Ran CBL from 4170' to 4000', no cement behind 5-1/2". Wait on orders. Note: Jose Morales, COPC, received approval from BLM and NMOCD on procedure change. ND kill spool and BOP. RU A-Plus wireline. RIH with 5-1/2" jet to 4060' and cut casing. RD wireline. PU 5-1/2" Select sphere and attempt to RIH, unable. Attempt to pull slips, unable. Note: Jose Morales, COPC, received approval from BLM and NMOCD on procedure change. RU A-Plus wireline. Rattle shot 15' of primer cord. RD wireline. Attempt to work slips free, unable. SI well. SDFD.
- 12/14/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI and IM casing and bradenhead 5 PSI. Pressure test casing to 800 PSI, OK. RU High Desert. RU jack hammer and chip out cement around wellhead. Wait on orders. Note: Jose Morales, COPC, received approval from BLM and NMOCD to do suicide squeeze. ND wellhead and x-over spool. NU landing spool, kill spool and BOP. RU A-Plus wireline. Perforate 4 HSC holes at 4005' and 4055'. Pressured up to 1200 PSI, no rate. PU 5-1/2" Select CR and set at 4025'. Sting into CR and establish rate. **Spot plug #3d** with calculated TOC at 3999'. SI well. SDFD.
- 12/15/16 Bump test H2S equipment. Check well pressures: no tubing and casing 0 PSI, IM casing and bradenhead 5 PSI. Function test BOP. TIH and tag TOC at 3999'. Note: Jose Morales, COPC, received approval from BLM and NMOCD to do suicide squeeze. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. Perforate 4 HSC holes at 3995', pressured up to 800 PSI. Perforate 4 HSC holes at 1000'. Set CR at 3883'. Establish circulation. Casing pressured up. Reverse circulate. **Spot plug #3e**. Establish circulation. SI well. SDFD.
- 12/16/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI, IM casing on vacuum and bradenhead 5 PSI. Function test BOP. Pressure test casing to 800 PSI, OK. RU A-Plus wireline. Ran CBL from 3880' to surface, found TOC at 3000' and stringers to 1080'. Wait on orders. Note: Jim Morris, MVCI, received approval from BLM and NMOCD on procedure change. Perforate 4 HSC holes at 3150', pressured up to 1300 PSI. Approval to spot inside plug. **Spot plug #4** with calculated TOC at 2900'. TOH with tubing. SI well. SDFD.

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Plugging Work Details (continued):

- 12/19/16 Bump test H2S equipment. Check well pressures: tubing 0 PSI, casing 3 PSI, IM casing 17 PSI and bradenhead 13 PSI. Function test BOP. TIH and tag TOC at 2900'. RU A-Plus wireline. Perforate 4 HSC holes at 2608'. Establish rate of 2 bpm at 1200 PSI. PU 5-1/2" Select CR and set at 2558'. Establish rate of 2 bpm at 1300 PSI. **Spot plug #5** with calculated TOC at 2453'. Perforate 4 HSC holes at 1632'. Establish rate of 1 bpm at 1200 PSI. PU 5-1/2" Select CR and set at 1582'. Establish rate of 1 bpm at 1300 PSI. **Spot plug #6** with calculated TOC at 1477'. Perforate 4 HSC holes at 1331', pressured up to 1400 PSI, no rate. Establish circulation. **Spot plug #7** with calculated TOC at 895'. SI well. SDFD.
- 12/20/16 Bump test H2S equipment. Check well pressures: tubing and IM casing 0 PSI, casing 2 PSI and bradenhead 8 PSI. Function test BOP. TIH and tag TOC at 903'. Pressure test casing to 800 PSI, OK. Note: Jim Morris, MVCI, received approval from BLM and NMOCD on procedure change. RU A-Plus wireline. Perforate 3 HSC holes at 590'. Establish rate of 2 bpm at 800 PSI. PU 5-1/2" Select CR and set at 542'. **Spot plugs #8 and #8a**. SI well. SDFD.
- 12/21/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI and bradenhead 8 PSI. Function test BOP. Check well pressures: IM casing 2 PSI and bradenhead 5 PSI. Monitor gas LEL at 200%. RU A-Plus wireline. Perforate 4 HSC holes at 400'. Establish rate of 2 bpm at 800 PSI, attempt to reverse pump down bradenhead got a rate of 3.5 bpm at 200 PSI. Wait on orders. Note: Jim Morris, MVCI, received approval from BLM and NMOCD on procedure change. PU 5-1/2" Select CR and set at 352'. **Spot plug #8b** with calculated TOC at 211'. SI well. SDFD.
- 12/22/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI and IM casing and bradenhead on vacuum. Function test BOP. Note: Jim Morris, MVCI, received approval from BLM and NMOCD on procedure change. RU A-Plus wireline. Perforate 4 HSC holes at 222'. Establish rate of 2 bpm at 800 PSI. Establish rate of 3 bpm at 200 PSI, no circulation. Wait on orders. Note: Jim Morris, MVCI, received approval from BLM and NMOCD on procedure change. PU 5-1/2" Select CR and set at 172'. Establish rate of 2 bpm at 800 PSI. **Spot plug #9** with calculated TOC at 172'. SI well. SDFD.
- 12/27/16 Bump test H2S equipment. Check well pressures: no tubing, casing 0 PSI and IM casing and bradenhead on vacuum. Function test BOP. Wait on orders. Note: Jose Morales, COPC, received approval from BLM and NMOCD on procedure change. RU A-Plus wireline. Perforate 4 HSC holes at 170'. PU 5-1/2" Select CR and set at 150'. Establish circulation. PU 5-1/2" Select CR and set at 130'. **Spot plug #9a** with calculated TOC at 130'. RU A-Plus jackhammer. Dig out around wellhead. RD jackhammer. SI well. SDFD.

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Plugging Work Details (continued):

12/28/16 Bump test H2S equipment. Open up well; no pressures. Function test BOP. Note: Jose Morales, COPC, received approval from BLM and NMOCD on procedure change. Establish circulation. Spot plug #9b with TOC at surface. ND BOP and kill spool. RU A-Plus cut off saw. Cut off wellhead. Found cement down 4' in annulus and 3' in 7-5/8" IM casing. **Spot plug #10** top off casings and install P&A marker with coordinates N 36° 39.564' W 108° 00.218'. RD and MOL.

Jim Morris, MVCI representative, was on location.

Jose Morales, COPC representative, was on location.

Darrell Priddy, BLM representative, was on location.

Thomas Vermersch, NMOCD representative, was on location.