

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED

MAY 23 2016

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.

Farmington Field Office
Bureau of Land Management

5. Lease Serial No. **NM-020982**

6. If Indian Allottee or Tribe Name

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 5

2. Name of Operator

ConocoPhillips Company

9. API Well No.

30-045-07554

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 N (SESW), 815' FSL & 1550' FWL, Sec. 10, 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

☒ Notice of Intent

☐ Subsequent Report

☐ Final Abandonment Notice

TYPE OF ACTION

☐ 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 recompleate 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 recompleation 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 held on 5/20/2016 with Bob Switzer/BLM. The Re-Vegetation Plan is attached. A Closed Loop system will be used.

The subject well is part of the proposed Mangum SRC 1 program agreed to with the NMOCD.

BLM'S APPROVAL OR ACCEPTANCE OF THIS ACTION DOES NOT RELIEVE THE LESSEE AND OPERATOR FROM OBTAINING ANY OTHER AUTHORIZATION REQUIRED FOR OPERATIONS ON FEDERAL AND INDIAN LANDS

Notify NMOCD 24 hrs
prior to beginning
operations

OIL CONS. DIV DIST. 3

JUN 06 2016

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**

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

Dollie L. Busse

Title **Regulatory Technician**

Signature

Dollie L. Busse

Date

5/25/16

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Jack Savage

Title

PE

Date

6/2/16

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

FFO

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

7

ConocoPhillips
REDFERN 5
Expense - P&A

Lat 36° 40' 17.828" N

Long 107° 59' 39.84" W

PROCEDURE

This project requires the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and properly plumbed to the surface. Record the casing, intermediate, and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present (per Exhibit "A-3").

1. Hold pre-job safety meeting. Comply with all NMOCD, BLM, and COP safety and environmental regulations. Test rig anchors prior to moving in rig.

2. MIRU workover rig. Check casing, tubing, and bradenhead pressures and record them in WellView. If there is pressure on the BH, contact the Wells Engineer (per Exhibit "A-3").

3. Remove existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.

4. TOOH w/ rod string and LD (per pertinent data sheet).

Size:	3/4"	Length	4,077'
Size:	5/8"	Length	1975'

5. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1000 psi over SICP high to a maximum of 2000 psi held and charted for 10 minutes per COP Well Control Manual. PU and remove tubing hanger.

6. TOOH with tubing (per pertinent data sheet).

Tubing size: 2-3/8" 4.7# J-55 EUE

Set Depth: 6,147'

KB: 11'

7. PU 3-7/8" bit and watermelon mill and round trip as deep as possible above top perforation at 5968'.

8. PU 4-1/2" CR on tubing, and set at 5918'. Pressure test tubing to 1000 psi. Sting out of CR. Load hole, and pressure test casing to 800 psi. If casing does not test, spot or tag subsequent plugs as appropriate. POOH with tubing.

9. RU wireline and run CBL with 500 psi on casing from CR at 5918" to surface to identify TOC. Adjust plugs as necessary for new TOC. Email log copy to Wells Engineer, Troy Salyers (BLM) at tsalyers@blm.gov, and Brandon Powell (NMOCD) at brandon.powell@state.nm.us upon completion of logging operations.

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

10. Plug 1 - Dakota Formation Top and Perforations, 5818' - 5918', 12 Sacks Class B Cement

Mix cement as described above and spot a balanced plug inside casing. Pull out of hole.

11. Roll the hole with water and ensure the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established (per Exhibit "A-3").

12. Plug 2 - Gallup Formation Top, 5058' - 5158', 51 Sacks Class B Cement

Rig up wireline and perforate 3 squeeze holes at 5158'. Pull out of hole and rig down wireline. Establish an injection rate into the perforations with water. Pick up a 4-1/2" cement retainer on tubing and set at 5108'. Establish an injection rate with water. Mix cement as described above and squeeze 43 sacks under the retainer. Sting out and balance 8 sacks on top of the retainer. Pull out of hole.

13. Plug 3 - Mancos Formation Top, 4180' - 4280', 51 Sacks Class B Cement

Rig up wireline and perforate 3 squeeze holes at 4280'. Pull out of hole and rig down wireline. Establish an injection rate into the perforations with water. Pick up a 4-1/2" cement retainer on tubing and set at 4230'. Establish an injection rate with water. Mix cement as described above and squeeze 43 sacks under the retainer. Sting out and balance 8 sacks on top of the retainer. Pull out of hole.

14. Plug 4 - Mesaverde Formation Top, 3050' - 3150', 51 Sacks Class B Cement

Rig up wireline and perforate 3 squeeze holes at 3150'. Pull out of hole and rig down wireline. Establish an injection rate into the perforations with water. Pick up a 4-1/2" cement retainer on tubing and set at 3100'. Establish an injection rate with water. Mix cement as described above and squeeze 43 sacks under the retainer. Sting out and balance 8 sacks on top of the retainer. Pull out of hole.

15. Plug 5 - Pictured Cliffs Formation Top, 1461' - 1561', 12 Sacks Class B Cement

Mix cement as described above and spot a balanced plug inside casing. Pull out of hole.

16. Cease operations for 30 minutes allowing the bradenhead to be observed for pressure build. Record pressures with crystal gauge for accuracy. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD (Per Exhibit "A-3").

17. Plug 6 - Fruitland Formation Top, 968' - 1068', 51 Sacks Class B Cement

Rig up wireline and perforate 3 squeeze holes at 1068'. Pull out of hole and rig down wireline. Establish an injection rate into the perforations with water. Pick up a 4-1/2" cement retainer on tubing and set at 1018'. Establish an injection rate with water. Mix cement as described above and squeeze 43 sacks under the retainer. Sting out and balance 8 sacks on top of the retainer. Pull out of hole.

18. Plug 7 - Kirtland and Ojo Alamo Formation Tops and Surface Plug, 0' - 671', 207 Sacks Class B Cement

RU WL and perforate 4 big hole charge (if available) squeeze holes at 671'. TOOH and RD wireline. Observe well for 30 minutes per BLM regulations. RU pump, close blind rams and establish circulation out bradenhead with water. Circulate BH clean. TIH with 4-1/2" CR and set at 621'. Mix Class B cement and squeeze until good cement returns to surface out BH valve. Shut BH valve and squeeze to max 200 psi. Sting out of CR and reverse circulate cement out of tubing. TOOH and LD stinger. TIH with open ended tubing to 621'. Mix 51 sx Class B cement and pump inside plug. TOOH and LD Tubing. SI well and WOC.

19. Nipple down BOP and cut off casing below the casing flange. Install P&A marker with cement to comply with regulations. RDMO.

Exhibit "A-3"

To Final Agreement - Withdrawal of Notice of Violation (3-15-02)
dated May 4, 2016 from ConocoPhillips Company to NMOCD

Updated Abandonment Procedures

The following procedural changes will be required for the P&A Program:

- 1) Prior to commencing abandonment operations, ensure that the bradenhead valve is dug out and properly plumbed to the surface. Record the casing, intermediate and bradenhead pressures with an appropriately ranged gauge. Contact the Engineer if bradenhead pressure is present. After the last set of completion perforations are abandoned with cement, roll the hole with water and ensure that the wellbore is in a stabilized condition with no flow of gas and/or water before spotting the next plug. If flow occurs, the fluid weight must be increased until a stabilized condition is established.
- 2) Following the plug over the Fruitland Formation Top, and prior to the plug over the Kirtland and Ojo Alamo Tops:
 - a. Operations will cease for 30 minutes allowing the Bradenhead to be observed for pressure build.
 - b. Pressures will be recorded with a crystal gauge for accuracy.
 - c. If pressures are observed, notify Wells Engineer and Production Engineering for path-forward discussion with NMOCD.
- 3) Within 24 hours of the abandonment and after two weeks, BLM will check for the presence of gas at the base of the dry hole marker and at the weep hole. Note ambient weather conditions when recording the results. If gas is detected, contact the Engineer.
- 4) If a Cathodic Protection well is on the well pad, check for the presence of gas at the vent cap. If gas is present, record results in AFMSS and contact the Engineer.

Note: when checking any sample point for the presence of gas, please be prepared for the possibility of anomalous pressure and the H₂S gas.

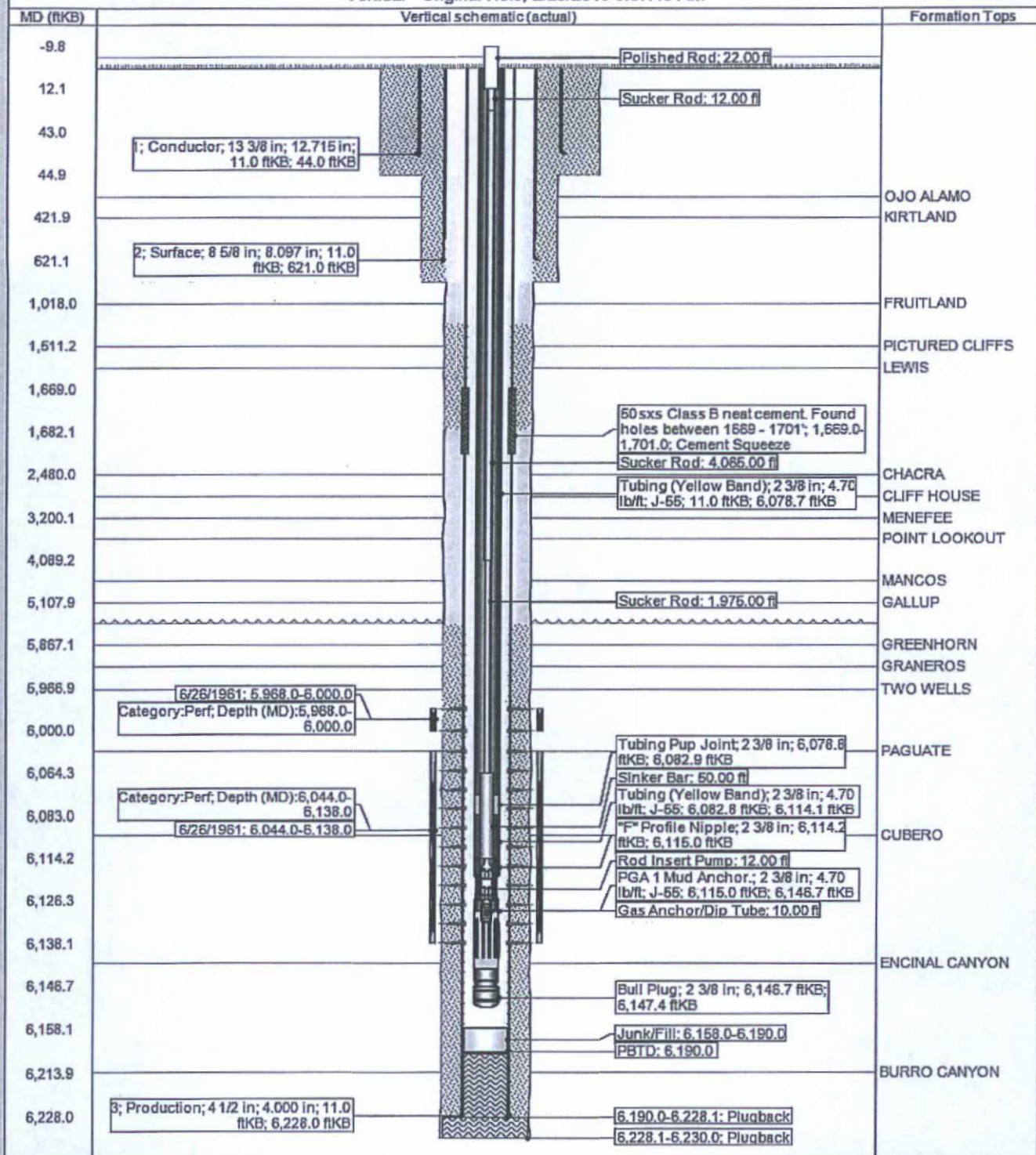


CURRENT SCHEMATIC

REDFERN #5

District NORTH	Field Name DK	API / UWI 3004507554	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 5/31/1961	Surface Legal Location 010-028N-011W-N	E/W Dist (ft) 1,550.00	E/W Ref FWL	N/S Dist (ft) 815.00 N/S Ref FSL

Vertical - Original Hole, 2/29/2016 9:57:48 AM



Schematic - Proposed REDFERN #5

District NORTH	Field Name DK	API / UWI 3004507554	County SAN JUAN	State/Province NEW MEXICO
Original Spud Date 5/31/1961	Surf Loc 010-028N-011W-N	East/West Distance (ft) 1,550.00	East/West Reference FWL	N/S Dist (ft) 815.00
				North/South Reference FSL

Vertical - Original Hole, 1/1/2020 6:30:00 AM

Vertical schematic (actual)		MD (ftKB)	Formation Tops
1; Conductor, 13 3/8 in; 12.715 in; 11.0 ftKB; 44.0 ftKB	Conductor Cement; 11.0-45.0; 5/31/1961; Cemented with 50 sx neat. circulated to surface.	43.0	OJO ALAMO KIRTLAND
	Plug #7; 11.0-671.0; 1/1/2020	44.9	
2; Surface; 8 5/8 in; 8.097 in; 11.0 ftKB; 621.0 ftKB	Surface Cement; 11.0-627.0; 6/3/1961; Cemented with 225 sxs. 4% gel with 2% cacl. Circulated to surface.	421.9	
Cement Retainer, 621.0-623.0	Plug #7; 11.0-671.0; 1/1/2020; Mix 156 sx Class B cmt and sqz until good cmt returns to surface out BH valve. Mix 51 sx Class B cmt and pump inside plug	621.1	FRUITLAND
SQUEEZE PERFS; 671.0; 1/1/2020	Plug #6; 968.0-1,068.0; 1/1/2020	627.0	
Cement Retainer, 1,018.0-1,020.0	Plug #6; 968.0-1,068.0; 1/1/2020; Mix 51 sx Class B cmt and sqz 43 sx under the retainer. Sting out and balance 8 sx on top of the retainer	967.8	
SQUEEZE PERFS; 1,068.0; 1/1/2020	Plug #5; 1,461.0-1,561.0; 1/1/2020; Mix 12 sx Class B cmt and spot a balanced plug inside csg	1,020.0	PICTURED C... LEWIS
	Production Cement; 1,294.0-1,682.0; 6/22/1961; 2nd stage: 100sx 8% gel. through DV tool at 1682'. TOC @ 1294' w/ 75% efficiency.	1,294.0	
	Cement Squeeze; 1,669.0-1,701.0; 10/26/1993; 50 sxs Class B neat cement. Found holes between 1669 - 1701'	1,511.2	
		1,664.0	CHACRA CLIFF HOUSE
Cement Retainer, 3,100.0-3,102.0	Plug #4; 3,050.0-3,150.0; 1/1/2020	1,681.1	
SQUEEZE PERFS; 3,150.0; 1/1/2020	Plug #4; 3,050.0-3,150.0; 1/1/2020; Mix 51 sx Class B cmt and sqz 43 sx under the retainer. sting out and balance 8 sx on top of the retainer.	1,701.1	
Cement Retainer, 4,230.0-4,232.0	Plug #3; 4,180.0-4,280.0; 1/1/2020	3,049.9	MANEFEE POINT LOOK... MANCOS
SQUEEZE PERFS; 4,280.0; 1/1/2020	Plug #3; 4,180.0-4,280.0; 1/1/2020; Mix 51 sx Class B cmt and sqz 43 sx under the retainer. sting out and balance 8 sx on top of the retainer.	3,102.0	
Cement Retainer, 5,108.0-5,110.0	Plug #2; 5,058.0-5,158.0; 1/1/2020	3,200.1	
SQUEEZE PERFS; 5,158.0; 1/1/2020	Plug #2; 5,058.0-5,158.0; 1/1/2020; Mix 51 sx Class B cmt and sqz 43 sx under the retainer. Sting out and balance 8 sx on top of the retainer	4,180.1	GALLUP
	Plug #1; 5,818.0-5,918.0; 1/1/2020; Mix 12 sx Class B cmt and spot a balanced plug inside csg	4,232.0	
Cement Retainer, 5,918.0-5,920.0		5,058.1	
Dakota; 5,968.0-6,000.0; 6/25/1961		5,109.9	GREENHORN GRANEROS TWO WELLS
Dakota; 6,044.0-6,138.0; 6/25/1961		5,453.1	
Junk/Fill; 6,158.0-6,190.0	Plugback; 6,190.0-6,228.1; 6/24/1961	5,867.1	
PBTD; 6,190.0	Plugback; 6,228.1-6,230.0; 6/24/1961	5,919.9	PAGUATE CUBERO ENCINAL CA... BURRO CAN...
3; Production; 4 1/2 in; 4.000 in; 11.0 ftKB; 6,228.0 ftKB	Production Cement; 5,453.0-6,230.0; 6/22/1961; 1st stage: 150 sx. 8% gel. 50sx. neat. TOC @ 5453' w/ 75% efficiency	5,966.9	
		6,000.0	
		6,094.2	
		6,140.1	
		6,180.0	
		6,227.0	
		6,230.0	

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: Redfern 5

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) Set a cement plug (2530-2430) ft. inside/outside to cover the Chacra top. BLM picks top of Chacra at 2480 ft.
 - b) Set plug #6 (1270-1170) ft. inside/outside to cover the Fruitland top. BLM picks top of Fruitland at 1220 ft.

Operator will run CBL from CR @ 5,918 ft. to surface to identify TOC. Submit the electronic copy of the log for verification to the following addresses: jwsavage@blm.gov Brandon.Powell@state.nm.us

H₂S has not been reported in this section, however, **low concentrations of H₂S (40 ppm GSV)** have been reported in the NESW/4 Sec. 11, 28N, 11W.

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.