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Form 3160-5  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SEP 26 2013

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010Farmington Field Office  
Bureau of Land Management

5. Lease Serial No.

Contract 106

**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

Jicarilla Apache Tribe

SUBMIT IN TRIPLICATE - Other instructions on page 2.

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

1. Type of Well

☐

Oil Well

☒

Gas Well

☐

Other

8. Well Name and No.

Jicarilla B 6

2. Name of Operator

ConocoPhillips Company

9. API Well No.

30-039-06306

3a. Address

PO Box 4289, Farmington, NM 87499

3b. Phone No. (include area code)

(505) 326-9700

10. Field and Pool or Exploratory Area

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

Surface

UL F (SENW), 1850' FNL &amp; 1545' FWL, Sec. 25, T26N, R4W

11. Country or Parish, State

Rio Arriba

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 recomple 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 recomple 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 Company requests permission to P&A the subject per the attached procedure, current & proposed wellbore schematics. A closed loop system will be utilized for this P&A.

Notify NMOCD 24 hrs  
prior to beginning  
operations

RCVD OCT 18 '13  
OIL CONS. DIV.  
DIST. 3

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

Kenny Davis

Title Staff Regulatory Technician

Signature

Date

9/26/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Original Signed: Stephen Mason

Title

Date

OCT 17 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 PV

**ConocoPhillips**  
**JICARILLA B 6**  
**Expense - P&A**

Lat 36° 27' 34.704" N

Long 107° 12' 24.3" W

Prepared by:

Date:

Twinned Location: No

Currently Surface Commingled:

No

Scope of Work: Plug and abandon wellbore

Est. Rig Days: 4

Area: 26

Route: 659

Est. Uplift: 28 MCFD

Formation: PC

**WELL DATA**

API: 3003906306

Spud Date: 6/28/1965

LOCATION: 1850' FNL & 1545' FWL, Spot F, Section 25 -T 026N - R 004W

Artificial lift on well (type): None

Est. Reservoir Pressure (psia):

200 psia (PC)

Well Failure Date: December 15, 2012

Earthen Pit Required:

NO

H2S: 0 ppm ALWAYS VERIFY

Well Class: 1

Well Category: 1

Refer to Well Control Manual for required barriers.

**Special Requirements:**

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.

| Contacts               | Name            | Office # | Cell #   |
|------------------------|-----------------|----------|----------|
| Wells Engineer         | Jessica Simpson | 324-6197 | 320-2596 |
| Wells Engineer Backup  | Leanna Martinez | 324-6110 | 215-2678 |
| PE Production Engineer | Michelle Wilcox | 599-3460 | 486-4741 |
| MSO                    | Travis Chavez   |          | 320-1537 |
| Lead                   | Ramon Florez    | 324-5178 | 320-2506 |
| Area Foreman           | Vance Roberts   | 599-3467 | 320-9567 |

**Well History/Justification**

This 1965 standalone Pictured Cliffs well shows no previous remedial workovers. It logged off in January 2013, and is currently unable to produce. In February 2013, slickline found an obstruction in the tubing. A fluid shot from June 2013 confirmed that the tubing is plugged. The fluid shot showed 115 feet of water in the casing, and both the tubing and casing had 18 psia on them. It also indicated a partial bridge in the casing. It is likely that frac sand is plugging the tubing and covering the perforations, but research indicates that cleaning out the casing would only bring the well back to its most recent trend and would not provide any uplift. Two offset PC wells have had sand cleanouts within the past 15 years, and neither well experienced any sustained uplift. Both wells only returned to their most recent production trend. This well cannot justify a casing cleanout with its expected production rate of 28 MCFD. Further, the partial bridge in the casing could be indicative of a casing failure, which makes the workover much riskier.

**Recommendation**

Due to the costs and risk associated with any remedial efforts, and the unlikelihood of recovering production at an economic rate, it is recommended to plug and abandon this well and return the location to its natural condition.

\_\_\_\_\_  
Wells Engineer

\_\_\_\_\_  
Superintendent

\_\_\_\_\_  
Engineering Supervisor

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

**ConocoPhillips**  
**JICARILLA B 6**  
**Expense - P&A**

Lat 36° 27' 34.704" N

Long 107° 12' 24.3" 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 workover 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. Kill well with water as necessary, pumping at least a tubing capacity of water down tubing.
5. ND wellhead and NU BOPE. Function and pressure test BOP. Use a test range of 200-300 psi for a low pressure test and 1,500 psi for a high pressure test. Pressure test for 10 minutes and chart as per COP Well Control Manual requires. PU and remove tubing hanger.

6. TOOH with tubing

**Tubing:**                      **Size:**      1.9" OD 3.64 ppf                      **Length:**      3,575'

Round trip with a 3-7/8" bit and watermelon mill to the top perf @ 3,589' or as deep as possible above the perms.

**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 Class B/ASTM Type II mixed at 15.6 ppg with a 1.18 cf/sk yield.**

**7. Plug #1 (Perfs, Pictured Cliffs and Fruitland tops : 3,230'-3,539', 28 sacks Class B cement)**

TIH and set 4-1/2" CR on tubing at 3,539'. Pressure test tubing to 1000 psi. Sting out of CR and load and circulate casing clean, pressure test casing to 800 psi. If casing does not test, cement plugs may need to be tagged as necessary. TOOH with tubing. RU wireline and run CBL from CR at 3,539' to surface under 500 psi pressure. Send CBL to Wells Engineer, Superintendent and Regulatory. Plugs may change depending on CBL or if bradenhead has pressure. TIH open ended or with plugging sub to CR @ 3,539'. Mix 28 sx Class B cement and spot a balanced plug inside casing to isolate the perforations, Pictured Cliffs, and Fruitland formation tops. PUH.

*K. H. H. H.*

3332 3029

**8. Plug #2 (Ojo Alamo top: ~~3,012'~~ – 3,112', 12 sacks Class B cement)**

Mix 12-sx Class B cement and spot a balanced plug inside casing to isolate the Ojo Alamo formation top. POOH.

1904 1804

**9. Plug #3 (Nacimiento top: ~~768'~~ – 868', 52 sacks Class B cement)**

RIH with wireline and perf 3 HSC squeeze holes at 868'. Set CR with wireline at 818'. TIH with tubing and sting in to CR. Establish injection through squeeze holes. Mix 52 sxs Class B cement. Sqz 40 sx Class B cement into HSC holes and leave 12 sx inside casing to isolate the Nacimiento formation top. POOH.

**10. Plug #4 (Surface Casing Shoe and surface: 0' – 225', 90 sacks Class B cement)**

RIH with wireline and perf 3 HSC squeeze holes at 225'. Establish circulation through squeeze holes. Mix 90 sxs Class B cement. Sqz Class B cement into HSC holes and circulate cement to surface through bradenhead to isolate the surface casing & bradenhead. Shut in well and WOC. Tag cement top and top out cement as necessary.

11. 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.



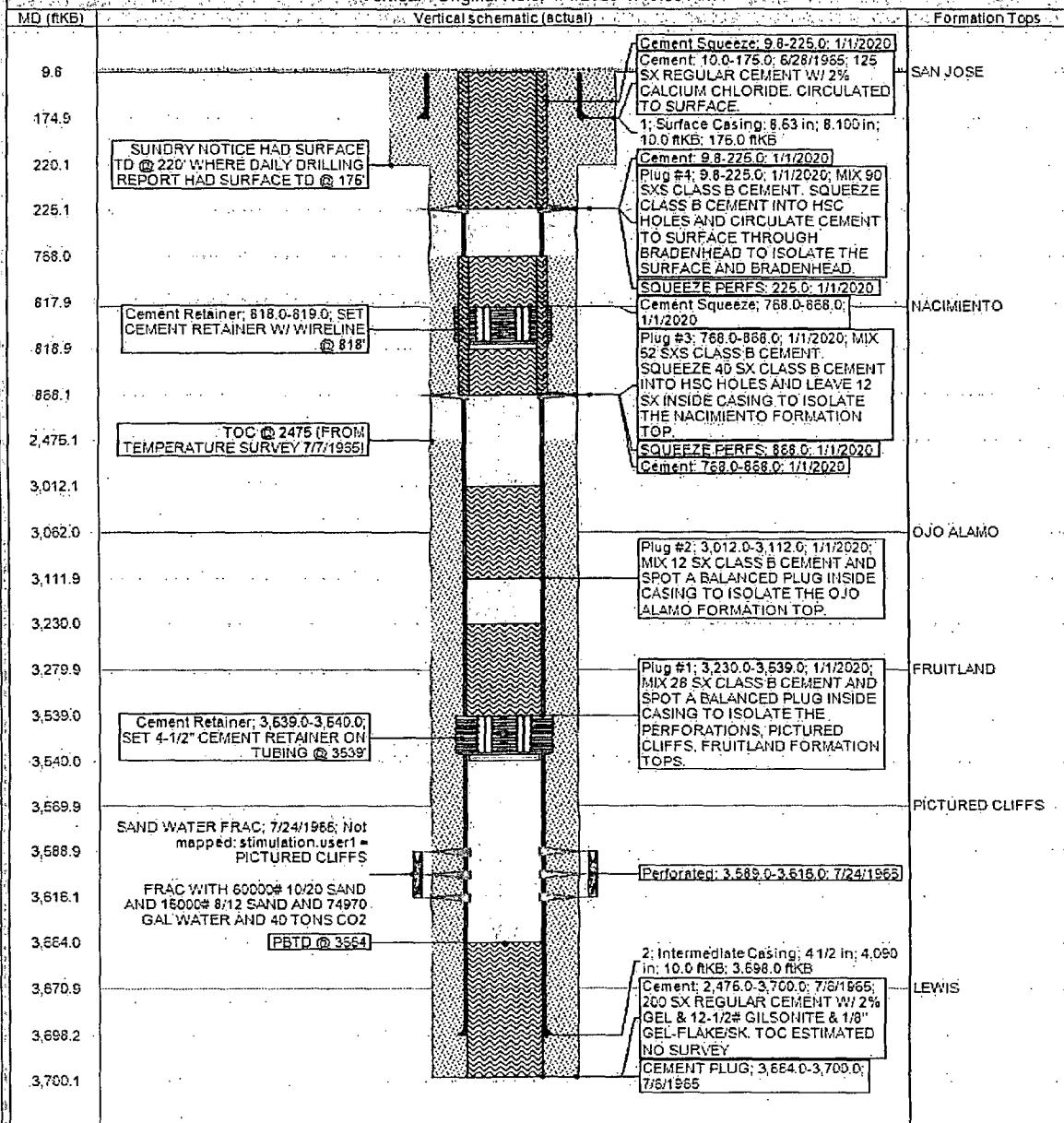
ConocoPhillips

Well Name: JICARILLA B #6

Proposed Schematic

|                        |                              |                           |                                  |                                  |                          |
|------------------------|------------------------------|---------------------------|----------------------------------|----------------------------------|--------------------------|
| API Well:              | Surface Location:            | Field Name:               | License No.:                     | State Province:                  | Well Configuration Type: |
| 3003906306             | 025-026N-004W-F              | PC                        |                                  | NEW MEXICO                       | Vertical                 |
| Ground Elevation (ft): | Original HST Elevation (ft): | CS- Ground Distance (ft): | CS- Casing Flange Distance (ft): | CS- Tubing Hanger Distance (ft): |                          |
| 6,973.00               | 6,963.00                     | 10.00                     | 10.00                            | 10.00                            |                          |

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



## **ConocoPhillips Company**

### **Closed-loop Plans**

#### **Closed-loop Design Plan**

COPC's closed loop system will not entail a drying pad, temporary pit, below grade tank or sump. It will include an above ground tank suitable for holding the cuttings and fluids for rig operations. The tank will be sufficient volume to maintain a safe free board between disposal of the liquids and solids from rig operations.

1. Fencing is not required for an above ground closed-loop system
2. It will be signed in compliance with 19.15.3.103 NMAC
3. A frac tank will be on location to store fresh water

#### **Closed-loop Operating and Maintenance Plan**

COPC's closed-loop tank will be operated and maintained to contain liquids and solids in order to prevent contamination of fresh water sources, in order to protect public health and the environment. To ensure the operation is maintained the following steps will be followed:

1. The liquids will be vacuumed out and disposed of at the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). Solids in the closed-loop tank will be vacuumed out and disposed of at Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) on a periodic basis to prevent over topping.
2. No hazardous waste, miscellaneous solid waste or debris will be discharged into or stored in the tank. Only fluids or cutting used or generated by rig operations will be placed or stored in the tank.
3. The division district office will be notified within 48 hours of the discovery of compromised integrity of the closed-loop tank. Upon the discovery of the compromised tank, repairs will be enacted immediately

#### **Closed-loop Closure Plan**

The closed-loop tank will be closed in accordance with 19.15.17.13. This will be done by transporting cuttings and all remaining sludges to Envirotech (Permit # NM-01-0011) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B) immediately following rig operations. All remaining liquids will be transported and disposed of in the Basin Disposal facility (Permit # NM-01-005) or JFJ Landfarm % Industrial Ecosystem Inc. (Permit # NM-01-0010B). The tanks will be removed from the location as part of the rig move. At time of well abandonment, the site will be reclaimed and re-vegetated to pre-existing conditions when possible.

**GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON FIELD OFFICE**

1.0 The approved plugging plans may contain variances from the following minimum general requirements.

1.1 Modification of the approved plugging procedure is allowed only with the prior approval of the Authorized Officer, Farmington Field Office.

1.2 Requirements may be added to address specific well conditions.

2.0 Materials used must be accurately measured. (densimeter/scales)

3.0 A tank or lined pit must be used for containment of any fluids from the wellbore during plugging operations and all pits are to be fenced with woven wire. These pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced.

3.1 Pits are not to be used for disposal of any hydrocarbons. If hydrocarbons are present in the pit, the fluids must be removed prior to filling in.

4.0 All cement plugs are to be placed through a work string. Cement may be bull-headed down the casing with prior approval. Cement caps on top of bridge plugs or cement retainers may be placed by dump bailer.

4.1 The cement shall be as specified in the approved plugging plan.

4.2 All cement plugs placed inside casing shall have sufficient volume to fill a minimum of 100' of the casing, or annular void(s) between casings, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.3 Surface plugs may be no less than 50' in length.

4.4 All cement plugs placed to fill annular void(s) between casing and the formation shall be of sufficient volume to fill a minimum of 100' of the annular space plus 100% excess, calculated using the bit size, or 100' of annular capacity, determined from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug.

4.5 All cement plugs placed to fill an open hole shall be of sufficient volume to fill a minimum of 100' of hole, as calculated from a caliper log, plus an excess volume sufficient to provide for 50 linear feet of fill above the plug. In the absence of a caliper log, an excess of 100% shall be required.

4.6 A cement bond log or other accepted cement evaluation tool is required to be run if one had not been previously run or cement circulated to surface during the original casing cementing job or subsequent cementing jobs.

5.0 All cement plugs spotted across, or above, any exposed zone(s), when; the wellbore is not full of fluid or the fluid level will not remain static, and in the case of lost circulation or partial returns during cement placement, shall be tested by tagging with the work string.

- 5.1 The top of any cement plug verified by tagging must be at or above the depth specified in the approved plan, without regard to any excess.
- 5.2 Testing will not be required for any cement plug that is mechanically contained by use of a bridge plug and/or cement retainer, if casing integrity has been established.
- 5.3 Any cement plug which is the only isolating medium, for a fresh water interval or a zone containing a prospectively valuable deposit of minerals, shall be tested by tagging.

6.0 Before setting any cement plugs the hole needs to be rolled. All wells are to be controlled by means of a fluid that is to be of a weight and consistency necessary to stabilize the wellbore. This fluid shall be left in place as filler between all plugs.

- 6.1 Drilling mud may be used as the wellbore fluid in open hole plugging operations.
- 6.2 The wellbore fluid used in cased holes shall be of sufficient weight to balance known pore pressures in all exposed formations.

7.0 A blowout preventer and related equipment (BOPE) shall be installed and tested prior to working in a wellbore with any exposed zone(s); (1) that are over pressured, (2) where the pressures are unknown, or (3) known to contain H<sub>2</sub>S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), five copies, with the Field Manager, Bureau of Land Management, 1235 La Plata Highway, Suite A, Farmington, NM 87401. The report should show the manner in which the plugging work was carried out, the extent, by depth(s), of cement plugs placed, and the size and location, by depth(s), of casing left in the well. Show date well was plugged.

9.0 All permanently abandoned wells are to be marked with a permanent monument as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10.0 If this well is located in a Specially Designated Area (SDA), compliance with the appropriate seasonal closure requirements will be necessary.

All of the above are minimum requirements. Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1. You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

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: 6 Jicarilla B

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 Kirtland/Ojo Alamo plug from 3332' - 3029'.
  - b) Place the Nacimiento plug from 1904' - 1804' inside and outside the 4 ½" 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.