

RECEIVED

SEP 23 2015

Form 3160-5  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFarmington Field Office  
Bureau of Land ManagementFORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

5. Lease Serial No.

Contract 147

6. If Indian, Allottee or Tribe Name

Jicarilla Apache

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

8. Well Name and No.

AXI Apache J 21

9. API Well No.

30-039-20437

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

10. Field and Pool or Exploratory Area

Otero Chacra / Mesa Verde

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

Unit I (NESE), 1850' FSL &amp; 790' FEL, Sec. 5, T25N, R5W

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

## 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☐ Plug Back☐ 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.)

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

OIL CONS. DIV DIST. 3

Notify NMOCD 24 hrs  
prior to beginning  
operations

SEP 30 2015

**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**

**SEE ATTACHED FOR  
CONDITIONS OF APPROVAL**

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

Crystal Walker

Regulatory Coordinator

Title

Signature

Crystal Walker

Date

9/22/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Abdelgadir E Imadani

Title

PE

Date

09/25/15

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

5



**ConocoPhillips**  
**AXI APACHE J 21**  
**Expense - P&A**

Lat 36° 25' 36.26" N

Long 107° 22' 34.068" W

**PROCEDURE**

**NOTE:** Insert note here

**This project requires 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. **Before RU, run WL remove downhole equipment. If an obstruction is found, set a locking-3-slip-stop in the tubing.**

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.**

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. ND wellhead and NU BOPE. Pressure and function test BOP to 250 psi low and 1,000 psi over SICP high to a maximum of 2,000 psi held and charted for 10 minutes as per COP Well Control Manual. PU and remove tubing hanger

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

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

Set Depth: 5,092'

KB: 12'

6. PU 4-3/4" bit and watermelon mill and round trip as deep as possible above top perforation at 5,039'.

7. PU 5-1/2" CR on tubing, and set at 4,989'. Pressure test tubing to 1,000 psi. Sting out of CR. Load hole, POOH w/ tubing.

8. RU wireline and run CBL from CR to surface to identify TOC. *Adjust plugs as necessary for new TOC. Email log copy to Troy Salyers (BLM) at [tsalyers@blm.gov](mailto:tsalyers@blm.gov) and Brandon Powell (NMOCD) at [brandon.powell@state.nm.us](mailto: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.**

**9. Plug 1 (Point Lookout Perforations and Formation Top, 4889-4989', 18 Sacks Class B Cement)**

Mix 18 sx Class B cement and spot a balanced plug inside the casing to cover the Point lookout perforations. PUH.

**10. Plug 2 (Chacra Formation Top and Perforations, 3608-3708', 18 Sacks Class B Cement)**

RIH with a 5-1/2" CR and set at 3,708'. Mix 18 sx Class B cement and spot a balanced plug inside the casing to cover the Chacra perforations and formation top. PUH.

**11. Plug 3 (Pictured Cliff Formation Top , 2832-2932', 18 Sacks Class B Cement)**

18 sx Class B cement and spot a balanced plug inside the casing to cover the Pictured Cliffs formation top. PUH.

**12. Plug 4 (Fruitland, Kirtland, Ojo Formation Tops, 2245-2454', 93 Sacks Class B Cement)**

RIH and perforate 3 squeeze holes at 2,454'. Establish injection rate into squeeze holes. RIH with a 5-1/2" CR and set at 2,404'. Mix 93 sx Class B cement. Squeeze 62 sx outside the casing, leaving 31 sx inside the casing to cover the Fruitland, Kirtland, Ojo formation tops. POOH.

**13. Plug 5 (Nacimiento Formation Top , 812-912', 48 Sacks Class B Cement)**

RIH and perforate 3 squeeze holes at 912'. Establish injection rate into squeeze holes. RIH with a 5-1/2" CR and set at 862'. Mix 48 sx Class B cement. Squeeze 30 sx outside the casing, leaving 18 sx inside the casing to cover the Nacimiento formation top. POOH.

**14. Plug 6 (Surface Plug, 0-288', 95 Sacks Class B Cement)**

RU WL and perforate 3 squeeze holes at 288'. 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. Mix 95 sx Class B cement and squeeze until good cement returns to surface out BH valve. Shut BH valve and squeeze to max 200 psi. SI well and WOC.

15. 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.





## Schematic - Current

AXI APACHE J #21

District SOUTH	Field Name CH/MV COM	API / UWI 3003920437	County RIO ARRIBA	State/Province NEW MEXICO
Original Spud Date 12/3/1971	Surface Legal Location NMPM-25N-05W-05-I	East/West Distance (ft) 790.00	East/West Reference FEL	North/South Distance (ft) 1,850.00
North/South Reference FSL				

Vertical - Original Hole, 8/21/2015 7:16:50 AM

Vertical schematic (actual)		MD (ftKB)	Formation Tops
		12.1	
1; Surface; 8 5/8 in; 8.097 in; 12.0 ftKB; 238.0 ftKB	Surface Casing Cement; 12.0-238.0; 12/4/1971; Cmt'd w/150 sxs Class A. Circulated 5 bbls. Cmt to surface.	237.9	
Tubing; 2 3/8 in; 4.70 lb/ft; J-55; 12.0 ftKB; 485.0 ftKB		240.2	
		484.9	
		861.9	NACIMIENTO
		2,295.9	OJO ALAMO
		2,484.9	KIRTLAND
		2,629.9	FRUITLAND
Tubing; 2 3/8 in; 4.70 lb/ft; J-55; Slim Line Collars on tbq.; 485.0 ftKB; 5,091.0 ftKB		2,882.9	PICTURED CL...
		2,960.0	LEWIS
		3,297.9	HUERFANITO...
		3,751.0	CHACRA
PERF - CHACRA; 3,758.0-3,784.0; 1/3/1972		3,757.9	
		3,784.1	
2-stage collar @ 3862'	Production Casing Cement; 2,485.0-3,862.0; 12/12/1971; 2nd stage - Cmt'd w/300 sxs 50/50 POZ. TOC @ 2485' per Cement Top Log (12/12/71).	3,861.9	
		4,189.0	
		4,538.1	CLIFF HOUSE
		4,560.0	MENEFEE
		5,036.1	POINT LOOKO...
		5,039.0	
Seat Nipple; 2 3/8 in; 5,091.0 ftKB; 5,092.0 ftKB		5,090.9	
Tubing; 2 3/8 in; 4.70 lb/ft; J-55; Slim Line collars on tbq. Notched Collar at bottom; 5,092.0 ftKB; 5,124.0 ftKB		5,091.9	
PERF - MESAVERDE; 5,039.0-5,216.0; 1/3/1972		5,124.0	
		5,215.9	
		5,274.9	
Fish; 5,275.0-5,280.0; Packer REMNANTS AFTER MILLING		5,279.9	
		5,299.9	
2; Production 1; 5 1/2 in; 5,010 in; 12.0 ftKB; 5,336.0 ftKB	Auto cement plug; 5,300.0-5,338.0; 12/12/1971; Automatically created cement plug from the casing cement because it had a tagged depth.	5,337.9	
	Production Casing Cement; 4,189.0-5,338.0; 12/12/1971; 1st stage - Cmt'd w/225 sxs 50/50 POZ. TOC @ 4189' per 75% eff calc.		



**Schematic - Proposed**  
**AXI APACHE J #21**

District SOUTH	Field Name CH/MV COM	API / UWI 3003920437	County RIO ARRIBA	State/Province NEW MEXICO
Original Spud Date 12/3/1971	Surf Loc NMMP-25N-05W-05-I	East/West Distance (ft) 790.00	East/West Reference FEL	N/S Dist (ft) 1,850.00
				North/South Reference FSL

Vertical - Original Hole, 1/1/2020 5:30:00 AM

Vertical schematic (actual)		MD (ftKB)	Formation Tops
1; Surface; 8 5/8 in; 8.097 in; 12.0 ftKB; 238.0 ftKB	Plug #6; 12.0-288.0; 1/1/2020 Surface Casing Cement; 12.0-238.0; 12/4/1971; Cmt'd w/150 sxs Class A. Circulated 5 bbls. Cmt to surface.	12.1	
SQUEEZE PERFS; 288.0; 1/1/2020	Plug #6; 12.0-288.0; 1/1/2020; Mix 95 sx Class B cmt and sqz until good cmt returns to surface out BH valve	237.9	
Cement Retainer; 862.0-865.0	Plug #5; 812.0-912.0; 1/1/2020	240.2	
SQUEEZE PERFS; 912.0; 1/1/2020	Plug #5; 812.0-912.0; 1/1/2020; Mix 48 sx Class B cmt. Sqz 30 sx outside the csg, leaving 18 sx inside the csg to cover the Nacimiento formation top	288.1	NACIMIENTO
Cement Retainer; 2,404.0-2,407.0	Plug #4; 2,245.0-2,454.0; 1/1/2020	812.0	
SQUEEZE PERFS; 2,454.0; 1/1/2020	Plug #4; 2,245.0-2,454.0; 1/1/2020; Mix 93 sx Class B cmt. Sqz 62 sx outside the csg, leaving 31 sx inside the csg to cover the Fruitland, Kirtland and Ojo Alamo formation tops	861.9	OJO ALAMO
	Plug #3; 2,832.0-2,932.0; 1/1/2020; Mix 18 sx Class B cmt and spot a balanced plug inside the csg to cover the PC formation top	865.2	
	Plug #2; 3,608.0-3,708.0; 1/1/2020; Mix 18 sx Class B cmt and spot a balanced plug inside the csg to cover the Chacra perforations and formation top	912.1	
Cement Retainer; 3,708.0-3,711.0	Production Casing Cement; 2,485.0-3,862.0; 12/12/1971; 2nd stage - Cmt'd w/300 sxs 50/50 POZ. TOC @ 2485' per Cement Top Log (12/12/71).	2,245.1	KIRTLAND
PERF - CHACRA; 3,758.0-3,784.0; 1/3/1972	Plug #1; 4,889.0-4,989.0; 1/1/2020; Mix 18 sx Class B cmt and spot a balanced plug inside the csg to cover the Point Lookout perforations	2,295.9	FRUITLAND
2-stage collar @ 3862'	Production Casing Cement; 4,189.0-5,338.0; 12/12/1971; 1st stage - Cmt'd w/225 sxs 50/50 POZ. TOC @ 4189' per 75% eff calc.	2,403.9	PICTURED C...
	Auto cement plug; 5,300.0-5,338.0; 12/12/1971; Automatically created cement plug from the casing cement because it had a tagged depth.	2,407.2	
Cement Retainer; 4,989.0-4,992.0		2,454.1	
PERF - MESAVERDE; 5,039.0-5,216.0; 1/3/1972		2,484.9	
Fish; 5,275.0-5,280.0; Packer REMNANTS AFTER MILLING		2,529.9	
2; Production1; 5 1/2 in; 5.010 in; 12.0 ftKB; 5,338.0 ftKB		2,832.0	LEWIS
		2,882.9	HUERFANIT...
		2,932.1	
		2,960.0	
		3,297.9	
		3,607.9	
		3,708.0	
		3,711.0	CHACRA
		3,751.0	
		3,757.9	
		3,784.1	
		3,861.9	
		4,189.0	CLIFF HOUSE
		4,538.1	MENEFE
		4,560.0	
		4,889.1	
		4,988.8	
		4,982.1	
		5,036.1	POINT LOOK...
		5,039.0	
		5,215.9	
		5,274.9	
		5,279.9	
		5,299.9	
		5,337.9	



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: AXI Apache J 21.

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 plug (4588-4488) ft. to cover Mesaverde top. BLM picks top of Cliff House at 4538 ft.
  - b) Set plug 2 (3800-3700) ft. to cover Chacra top. BLM picks top of Chacra at 3750 ft.
  - c) Set plug #4 (2741-2241) ft. inside/outside to cover the Fruitland, Kirtland and Ojo Alamo tops. BLM picks top of Ojo Alamo at 2291 ft, Fruitland at 2691 ft.
  - d) Set plug #5 (911-1011) ft. inside/outside to cover the Nacimiento top. BLM picks top of Nacimiento at 961 ft. Adjust cement volume accordingly.

Operator will run a CBL to verify cement top. Submit the electronic copy of the log for verification to the following addresses: [tsalyers@blm.gov](mailto:tsalyers@blm.gov) [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us)

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.