

Well Name: AXI APACHE H	Well Location: T23N / R5W / SEC 5 / SESE / 36.248963 / -107.37867	County or Parish/State: RIO ARRIBA / NM
Well Number: 12	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC38	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003905138	Well Status: Producing Gas Well	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2657496

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 02/16/2022	Time Sundry Submitted: 02:43
Date proposed operation will begin: 02/16/2022	

**Procedure Description:** This NOI to P&A is being submitted for engineering & geological review per Dave M. of the BLM prior to onsite inspection. A Reclamation Plan will be submitted on a subsequent sundry at a later date. DJR Operating, LLC requests permission to Plug & Abandon the subject well according to the attached Procedure, Current & Proposed Wellbore Diagram.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- AXI\_Apache\_H\_12\_BIA\_Rationale\_Form\_20220216144257.pdf
- AXI\_Apache\_H\_12\_PA\_Procedure\_20220216144257.pdf
- AXI\_Apache\_H\_12\_Proposed\_WBD\_20220216144257.pdf
- AXI\_Apache\_H\_12\_Current\_WBD\_20220216144257.pdf

<b>Well Name:</b> AXI APACHE H	<b>Well Location:</b> T23N / R5W / SEC 5 / SESE / 36.248963 / -107.37867	<b>County or Parish/State:</b> RIO ARRIBA / NM
<b>Well Number:</b> 12	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b> JICARILLA APACHE
<b>Lease Number:</b> JIC38	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 3003905138	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> DJR OPERATING LLC

Conditions of Approval

Specialist Review

23N05W05\_AXI\_Apache\_H\_12\_KGR\_20220216174131.pdf  
2657496\_NOIA\_H\_12\_3003905138\_KR\_02162022\_20220216174119.pdf  
General\_Requirement\_PxA\_20220216174048.pdf

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

<b>Operator Electronic Signature:</b> SHAW-MARIE FORD	<b>Signed on:</b> FEB 16, 2022 02:43 PM
<b>Name:</b> DJR OPERATING LLC	
<b>Title:</b> Regulatory Specialist	
<b>Street Address:</b> 1 Road 3263	
<b>City:</b> Aztec	<b>State:</b> NM
<b>Phone:</b> (505) 632-3476	
<b>Email address:</b> sford@djrlc.com	

Field Representative

<b>Representative Name:</b>		
<b>Street Address:</b>		
<b>City:</b>	<b>State:</b>	<b>Zip:</b>
<b>Phone:</b>		
<b>Email address:</b>		

BLM Point of Contact

<b>BLM POC Name:</b> KENNETH G RENNICK	<b>BLM POC Title:</b> Petroleum Engineer
<b>BLM POC Phone:</b> 5055647742	<b>BLM POC Email Address:</b> krennick@blm.gov
<b>Disposition:</b> Approved	<b>Disposition Date:</b> 02/16/2022
<b>Signature:</b> Kenneth Rennick	

**Plug and Abandonment Procedure**  
**for**  
**DJR Operating, LLC**  
**AXI Apache H 12**  
**API # 30-039-05138**  
**SE/SE, Unit P, Sec. 5, T23N, R5W**  
**Rio Arriba County, NM**

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU rig.
3. Check and record tubing, casing and bradenhead pressures.
4. Remove existing piping from casing valve, RU blow lines from casing valves and blow down casing pressure. Kill well as necessary. Ensure that well is dead or on a vacuum.
5. ND WH, NU BOP, function test BOP.
6. Trip out of hole with 2-3/8" tubing. LD tubing to be sent in for storage/salvage.
7. PU bit and 4-1/2" casing scraper on workstring and make sure it will go past 2000'. TOO H.
8. Plug 1: Perfs, Pictured Cliffs, and Fruitland tops: TIH with CR and set at 2000'. Squeeze below CR with 10 sx, and spot 192' plug on top. Pump water to ensure that tubing is clear. TOO H. WOC.
9. Run CBL log from CR to surface. Hold 600 psi on casing if possible. Electronic copy of CBL to be sent to Ken Rennick [krennick@blm.gov](mailto:krennick@blm.gov), Monica Kueling [monica.kueling@state.nm.us](mailto:monica.kueling@state.nm.us), Loren Diede [ldiede@djrlc.com](mailto:ldiede@djrlc.com), and [slindsay@djrlc.com](mailto:slindsay@djrlc.com). Plugs may be adjusted per log results.
10. Plug 2: Kirtland and Ojo Alamo tops: Depending on CBL results, spot cement plug inside 4-1/2" casing from 1692' to 1440'. Depths (and the addition of possible perfs for outside squeeze) may be adjusted based on CBL. Pump water to ensure that tubing is clear.

11. Plug 3. Nacimiento: Perforate holes at 1182'. PU and TIH with 4-1/2" CR. Set CR at 1132'. Mix and pump sufficient volume to place cement from 1182-1082', inside and outside. Pump water to ensure tubing is clear. TOOH.
12. Plug 4. Surface casing shoe, surface plug: Perforate holes at 358'. Tie on to 4 1/2" casing and mix and pump cement inside and outside from 358' to surface.
13. RD cementing equipment. Cut off wellhead, fill any exposed annulus with cement, as necessary. **Install surface P&A marker as per BIA requirements.** Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.
14. RD and MO all rig and cement equipment. Assure that location is free of trash and contamination before moving off.
15. Send all reports and attachments to DJR Aztec office for regulatory filings.

**Note: All cement is to be Class G mixed at 15.8 ppg, yield 1.15 cu ft / sx. Cement volumes are based on inside capacities + 50' excess and outside capacities + 100% excess.**

**Surface PxA marker it to be installed at surface, 12"x18", and exposed at the reclaimed GL surface.**

**Current Wellbore Diagram**  
**DJR Operating, LLC**  
**AXI Apache H 12**  
**API # 30-039-05138**  
**SE/SE, Unit P, Sec 5, T23N, R5W**  
**Rio Arriba County, NM**

GL 6580'  
 KB 6590'  
 Spud Date 9/13/1963

SURF CSG

Hole size 11"  
 Csg Size: 8.625"  
 Wt: 24#  
 Grade: J-55  
 ID: 8.097"  
 Depth 308'  
 cap cf/ft: 0.3575  
 TOC: N/A

FORMATION TOPS

San Jose	Surf
Nacimiento	1132'
Ojo Alamo	1490'
Kirtland	1642'
Fruitland	1858'
Pictured Cliffs	2020'

PROD TBG DETAIL:

2-3/8" landed at 2032'  
 (10/10/1965)

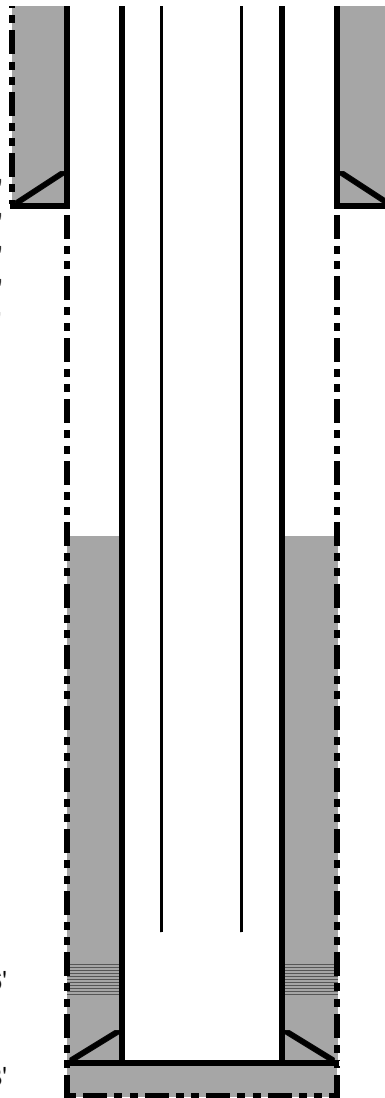
PROD CSG

Hole size 6.75"  
 Csg Size: 4.5"  
 Wt: 9.5"  
 Grade: J-55  
 ID: 4.090"  
 Depth 2125'  
 cap cf/ft: 0.0912  
 Csg/Csg Ann, cf/ft: 0.2318  
 Csg/OH Ann, cf/ft: 0.1381  
 TOC: 1271' (calc)

TOC: 1271' (Calc.)

Perfs 2026-86'

PBTD 2093'



**Proposed Wellbore Diagram**  
**DJR Operating, LLC**  
**AXI Apache H 12**  
**API # 30-039-05138**  
**SE/SE, Unit P, Sec 5, T23N, R5W**  
**Rio Arriba County, NM**

GL 6580'  
 KB 6590'  
 Spud Date 9/13/1963

SURF CSG

Hole size 11"  
 Csg Size: 8.625"  
 Wt: 24#  
 Grade: J-55  
 ID: 8.097"  
 Depth 308'  
 cap cf/ft: 0.3575  
 TOC: N/A

FORMATION TOPS

San Jose	Surf
Nacimiento	1132'
Ojo Alamo	1490'
Kirtland	1642'
Fruitland	1858'
Pictured Cliffs	2020'

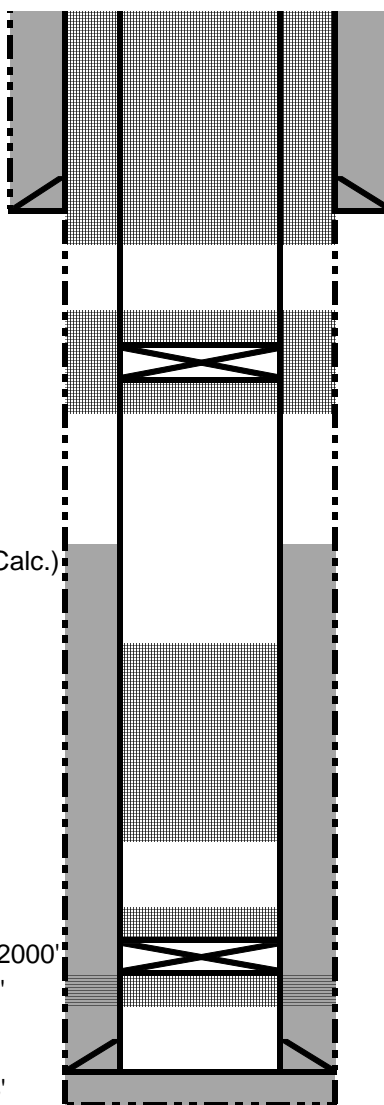
PROD CSG

Hole size 6.75"  
 Csg Size: 4.5"  
 Wt: 9.5"  
 Grade: J-55  
 ID: 4.090"  
 Depth 2125'  
 cap cf/ft: 0.0912  
 Csg/Csg Ann, cf/ft: 0.2318  
 Csg/OH Ann, cf/ft: 0.1381  
 TOC: 1271' (calc)

TOC: 1271' (Calc.)

CR at 2000'  
 Perfs 2026-86'

PBSD 2093'



Plug 4: Surface shoe and surface plug: Perf holes at 358'. Tie onto 4-1/2" casing and mix and pump sufficient volume to bring cement to surface, inside and outside.

Plug 3: Nacimiento top: Perf holes at 1182'. Set CR at 1132'. Mix and pump sufficient volume to bring cement to 1082', inside and outside.

Plug 2: Kirtland, and Ojo Alamo tops: Spot 252' balanced plug from 1692'-1440'. May be adjusted based on CBL.

Plug 1: Perfs, Pictured Cliffs, Fruitland tops: Set CR at 2000'. Sqz below CR with 10 sx. Spot 192' on top of CR.

**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. (densometer/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 ran or cement did not circulate 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.
- 5.4 If perforations are required below the surface casing shoe, a 30 minute minimum wait time will be required to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. Short or long term venting may be necessary to evacuate trapped gas. **If only a water flow occurs with no associated gas, shut well in and record the pressures. Contact the Engineer as it may be necessary to change the cement weight and additives.**

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, 6251 College Blvd., Suite A, Farmington, NM 87402. 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.

(October 2012 Revision)



**UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT  
FARMINGTON DISTRICT OFFICE  
6251 COLLEGE BLVD.  
FARMINGTON, NEW MEXICO 87402**

AFMSS 2 Sundry ID 2657496

Attachment to notice of Intention to Abandon

Well: Axi Apache H 12

**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 at (505) 564-7750.

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.

K. Rennick 2/16/2022

# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 02/16/2022

Well No. AXI Apache H #12 (API# 30-039-05138)		Location	700	FSL	&	915	FEL
Lease No. JIC38		Sec. 5	T23N			R05W	
Operator DJR Operating, LLC		County	Rio Arriba		State	New Mexico	
Total Depth		PBTD 2093'	Formation Pictured Cliffs (Producing)				
Elevation (GL) 6580'		Elevation (KB) 6590'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1132	Surface/freshwater sands
Nacimiento Fm			1132	1490	Possible freshwater sands
Ojo Alamo Ss			1490	1642	Aquifer (possible freshwater)
Kirtland Shale			1642	1858	
Fruitland Fm			1858	2020	Coal/Gas/Possible water
Pictured Cliffs Ss			2020	PBTD	Gas
Lewis Shale					
Chacra					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

P & A

Reference Well:

- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perms 2026' – 2086'.

**Prepared by: Kenneth Rennick**

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 94166

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 94166
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	3/30/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	3/30/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	3/30/2022