

Well Name: JIC APACHE A	Well Location: T25N / R5W / SEC 26 / SWNW / 36.373663 / -107.335138	County or Parish/State: RIO ARRIBA / NM
Well Number: 6	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC9	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003905839	Well Status: Producing Gas Well	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2699102

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 10/21/2022	Time Sundry Submitted: 12:05
Date proposed operation will begin: 10/21/2022	

**Procedure Description:** This request is being submitted for engineering & geological review prior to onsite inspection as approved by Dave M. of the BLM. 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

NOI\_PA\_BLM\_20221021120446.pdf

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Conditions of Approval

Specialist Review

General\_Requirement\_PxA\_20221026075117.pdf  
25N5W26\_Jicarilla\_Apache\_A\_6\_Geo\_KGR\_20221026075106.pdf  
2699102\_NOIA\_A\_6\_3003905839\_KR\_10252022\_20221026075058.pdf

Operator

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

Operator Electronic Signature: SHAW-MARIE FORD	Signed on: OCT 21, 2022 12:04 PM
Name: DJR OPERATING LLC	
Title: Regulatory Specialist	
Street Address: 1 Road 3263	
City: Aztec	State: NM
Phone: (505) 632-3476	
Email address: sford@djrlc.com	

Field

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5055647742	BLM POC Email Address: krennick@blm.gov
Disposition: Approved	Disposition Date: 10/26/2022
Signature: Kenneth Rennick	

**Plug and Abandonment Procedure  
for  
DJR Operating, LLC  
Jicarilla Apache A 6  
API # 30-039-05839  
SW/NW, Unit E, Sec. 26, T25N, R5W  
Rio Arriba County, NM**

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU P&A rig and equipment.
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. Leave 3 ½" tubing in the well for the time being.
6. PU 1 ½" workstring, TIH , inside 3 ½" tubing, tag PBTD or fill. Pull up to 7122'.
7. Plug 1: Graneros perforations: Mix and pump blind plug from 7122' to 7025'. Pull up to +/- 6500'. WOC.
8. TIH, tag Plug 1, top off, WOC and tag plug if needed. TOOH.
9. Load and roll hole. PT liner and 3 ½" tubing. If PT fails, contact engineering.
10. Run slim-hole CBL from 7025' to bottom of 3 ½" tubing. Send electronic copy of CBL to: Brandon Powell, NMOCD [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us), Monica Kuehling, NMOCD [Monica.Kuehling@stae.nm.us](mailto:Monica.Kuehling@stae.nm.us), Joe Killins, BLM [jkillins@blm.gov](mailto:jkillins@blm.gov), Loren Diede, DJR, [ldiede@djrlc.com](mailto:ldiede@djrlc.com), Scott Lindsay, DJR [slindsay@djrlc.com](mailto:slindsay@djrlc.com). P&A procedure may be modified based on the results of the CBL.
11. TIH with 1 ½" workstring to 6257'.
12. Plug 2: Gallup: Mix and spot balanced plug from 6257' to 6157', plus required excess to cover Gallup formation top. (WOC, if PT did not pass, then tag Plug 2). TOOH.
13. RIH, perforate holes at 5284'. POOH.
14. TIH with 1 1/2" workstring to 5184', close pipe rams on workstring. Establish a rate into perforations.
15. Plug 3: Mancos: Mix and pump cement to cover Mancos top inside/outside from 5284', plus required excess. Pull up above cement, WOC and tag, if required. TOOH.

16. RIH, perforate holes at 4544'. POOH.
17. TIH with 1 1/2" workstring to 4544', close pipe rams on workstring. Establish a rate into perforations.
18. Plug 4: Mesa Verde: Mix and pump cement to cover Mesa Verde top inside/outside from 4544', plus required excess. Pull up above cement, WOC and tag, if required. TOOH.
19. RIH, perforate holes at 4007'. POOH.
20. TIH with 1 1/2" workstring to 4007', close pipe rams on workstring. Establish a rate into perforations.
21. Plug 5: Intermediate casing shoe and liner overlap: Mix and pump cement to cover Intermediate shoe and liner overlap, plus required excess. (Liner top was cement squeezed previously with 100 sx, the CBL log should show if this plug is required.) Pull up above cement, WOC and tag, if required. TOOH.
22. RIH, perforate 3 1/2" tubing at 3744'. POOH.
23. TIH with 1 1/2" workstring to 3744', close pipe rams on workstring. Establish a rate into perforations.
24. Plug 6: Chacra: Mix and pump cement to cover Chacra top inside/outside of the 3 1/2" tubing from 3744', plus required excess. Pull up above cement, WOC and tag. TOOH, LD 1 1/2" workstring.
25. Provided that the Chacra is adequately covered, RIH with tubing cutter and cut 3 1/2" tubing above the TOC. POOH.
26. Pull 3 1/2" tubing from well, watching for the 3/4" tubing that may be coming out with the 3 1/2" tubing. Fish 3/4" tubing, if possible, (may want to PU a 2 3/8" IJ or 2 1/16" IJ workstring). Depending on fishing success a discussion will be had to determine next steps.
27. Load and roll the hole. PT the 7 5/8" casing. Run CBL from TOC to surface. Send electronic copy of CBL to: Brandon Powell, NMOCD [Brandon.Powell@state.nm.us](mailto:Brandon.Powell@state.nm.us), Monica Kuehling, NMOCD [Monica.Kuehling@stae.nm.us](mailto:Monica.Kuehling@stae.nm.us), Joe Killins, BLM [jkillins@blm.gov](mailto:jkillins@blm.gov), Loren Diede, DJR, [ldiede@djrlc.com](mailto:ldiede@djrlc.com), Scott Lindsay, DJR [slindsay@djrlc.com](mailto:slindsay@djrlc.com). P&A procedure may be modified based on the results of the CBL.
28. Pick up, TIH with 2 3/8 IJ or 2 1/16" IJ workstring to 2890'.
29. Plug 7: Pictured Cliffs, Fruitland, and Kirtland: Mix and pump cement to cover Pictured Cliffs, Fruitland, and Kirtland formation tops from 2890', plus required excess. Pull up above cement, WOC and tag, if required. TOOH.
30. RIH, perforate 7 5/8" casing at 2208'. POOH.

31. TIH with workstring to 2208', close pipe rams on workstring. Establish a rate into perforations.
32. Plug 8: Ojo Alamo: Mix and pump cement to cover Ojo Alamo top inside/outside of the 7 5/8" casing from 2208', plus required excess. Pull up above cement, WOC and tag, if required. TOOH.
33. RIH, perforate 7 5/8" casing at 973'. POOH.
34. TIH with workstring to 973', close pipe rams on workstring. Establish a rate into perforations.
35. Plug 9: Nacimiento: Mix and pump cement to cover Nacimiento top inside/outside of the 7 5/8" casing from 973', plus required excess. Pull up above cement, WOC and tag, if required. TOOH.
36. RIH, perforate 7 5/8" casing below the 10/3/4" surface casing at 285'. POOH.
37. Establish rate down 7 5/8" casing and out BH.
38. Plug 10: Surface casing shoe to surface. Mix and pump cement down 7 5/8" casing and out BH.
39. RD cementing equipment. Cut off wellhead, fill any exposed annulus with cement as necessary. Install P&A marker as per regulatory requirements. Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.
40. RD and MO all rig and cement equipment. Assure that location is free of trash before moving off.
41. 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 to be based on inside capacities + 50' excess and outside capacities + 100% excess. P&A marker is to be 12"x18" with rounded corners and installed below grade no deeper than 2'.**

## Current Wellbore Diagram

## DJR Operating, LLC

## Jicarilla Apache A 6

API # 30-039-05839

SW/NW, Unit E, Sec 26, T25N, R5W

Rio Arriba County, NM

GL 6723'  
 DF 6735'  
 Spud Date 11/12/1957

SURF CSG

Hole size 15"  
 Csg Size: 10.75"  
 Wt: 32.75#  
 Grade: H-40  
 ID: 10.192"  
 Depth 235'  
 TOC: Circulated cement to surface.

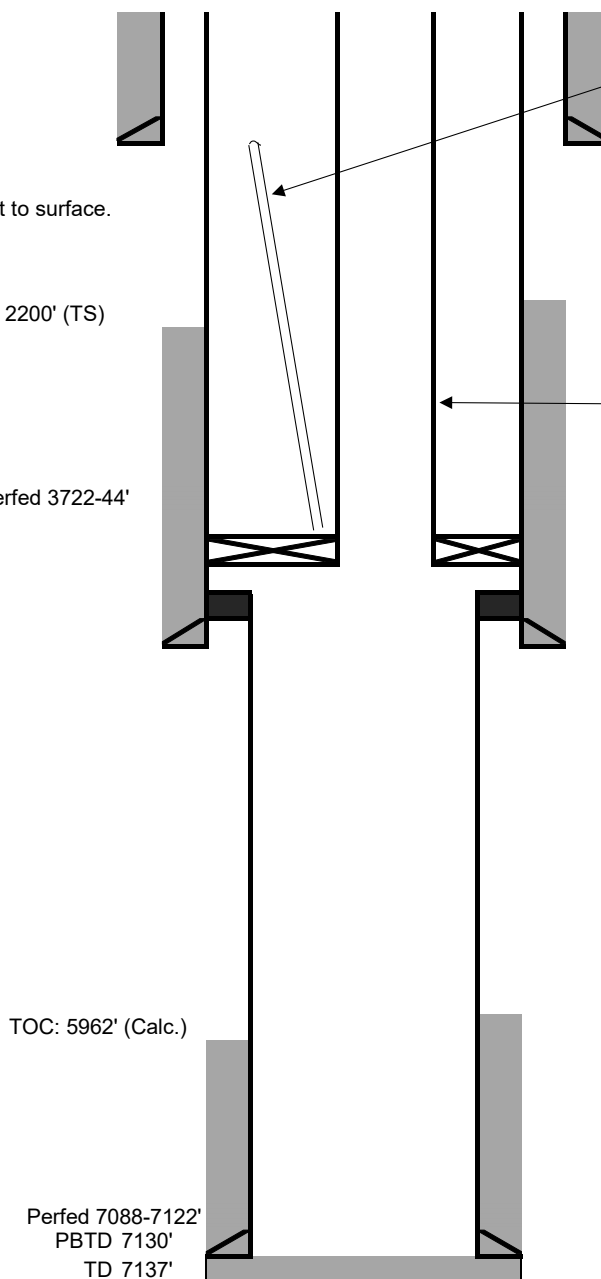
INT CSG

Hole size 9.875" TOC: 2200' (TS)  
 Csg Size: 7.625"  
 Wt: 26.4#  
 Grade: N/A  
 ID: 6.969"  
 Depth 3907'  
 Csg/Csg Ann ft<sup>3</sup>: 0.2495  
 Csg/OH cap ft<sup>3</sup>: 0.2148  
 TOC: 2200' (TS)  
 Perfed 3722-44'

LINER

Hole size 6.75"  
 Csg Size: 5.5"  
 Wt: 15.5#  
 Grade: N/A  
 ID: 4.950"  
 Liner Depth: 3850-7137'  
 TOC: 5962' (Calc.)

Note: 6/13/1985: Removed top of WH. Latched onto tubing hanger and 3/4" tubing parted 6" below tubing hanger. Latched onto 3-1/2" tubing hanger. Hanger free. Broke off bradenhead. Could not release Baker latch-on seal assembly. Worked 6-12k# torque, and 0 to 50k tension. Would not release.

**Tubing Record: Chacra**

3736' 3/4" tubing. Parted 6" below hanger.

**Tubing Record: 3-1/2"**

3-1/2" 9.3# tubing landed in Baker Model D packer set at 3749'.

Baker Model D packer set at 3749'  
 Squeezed liner top with 100 sx w/2% gel  
 Liner top set @ 3850'  
 7-5/8" 26.4# set at 3907'

FORMATION TOPS

Nacimiento	923'
Ojo Alamo	2158'
Kirtland	2483'
Fruitland	2688'
Pictured Cliffs	2840'
Lewis	2914'
Chacra	3705'
Mesa Verde	4494'
Mancos	5234'
Gallup	6207'
Graneros	7085'

TOC: 5962' (Calc.)

Perfed 7088-7122'  
 PBTD 7130'  
 TD 7137'

**Proposed P&A**  
**DJR Operating, LLC**  
**Jicarilla Apache A 6**  
 API # 30-039-05839  
 SW/NW, Unit E, Sec 26, T25N, R5W  
 Rio Arriba County, NM

GL 6723'  
 DF 6735'  
 Spud Date 11/12/1957

**SURF CSG**

Hole size 15"  
 Csg Size: 10.75"  
 Wt: 32.75#  
 Grade: H-40  
 ID: 10.192"  
 Depth 235'  
 TOC: Surface

Nacimiento 923'  
 Ojo Alamo 2158'  
 Kirtland 2483'  
 Fruitland 2688'  
 Pictured Cliffs 2840'  
 Lewis 2914'  
 Chacra 3705'  
 Mesa Verde 4494'  
 Mancos 5234'  
 Gallup 6207'  
 Graneros 7085'

**INT CSG**

Hole size 9.875"  
 Csg Size: 7.625"  
 Wt: 26.4#  
 Grade: N/A  
 ID: 6.969"  
 Depth 3907'  
 Csg/Csq Ann ft<sup>3</sup>: 0.2495  
 Csg/OH cap ft<sup>3</sup>: 0.2148  
 TOC: 2200' (TS)

TOC: 2200' (TS)

Perfed 3722-44'

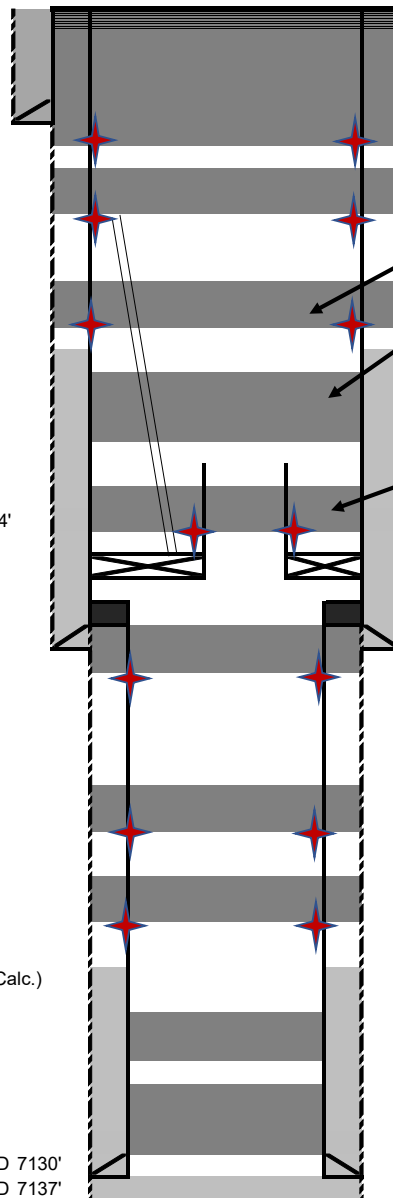
**LINER**

Hole size 6.75"  
 Csg Size: 5.5"  
 Wt: 15.5#  
 Grade: N/A  
 ID: 4.950"  
 Liner Depth: 3850-7137'  
 TOC: 5962' (Calc.)

Note: 6/13/1985: Removed top of WH. Latched onto tubing hanger and 3/4" tubing parted 6" below tubing hanger. Latched onto 3-1/2" tubing hanger. Hanger free. Broke off bradenhead. Could not release Baker latch-on seal assembly. Worked 6-12k# torque, and 0 to 50k tension. Would not release.

TOC: 5962' (Calc.)

Perfed 7088-7122'  
 PBTD 7130'  
 TD 7137'



Cut off WH, install P&A marker, top off casings and cellar.

Plug 10: Surface casing shoe to surface: Perforate holes at 285'. Establish rate down casing and out BH. Mix and pump cement down casing and out BH.

Plug 9: Perforate holes in 7 5/8" at 973'. Mix and place cement inside/outside to cover Nacimiento formation top.

Plug 8: Perforate holes in 7 5/8" at 2208'. Mix and place cement inside/outside to cover Ojo Alamo formation top.

Plug 7: Spot balanced plug from 2890' up to 2433' to cover Pictured Cliffs, Fruitland, and Kirtland formation tops.

Run CBL from 3655' to surface.

Cut and pull 3 1/2" tubing. Attempt to fish for and remove 3/4" tubing.

Plug 6: Perforate holes in 3 1/2" at 3744'. Mix and place cement inside/outside to cover Chacra perforations and formation top.

Baker Model D packer set at 3749'  
 Squeezed liner top with 100 sx w/2% gel  
 Liner top set @ 3850'  
 7-5/8" 26.4# set at 3907'

Plug 5: Perforate holes at 4007', mix and place cement inside/outside to cover Intermediate casing shoe and liner overlap.

Plug 4: Perforate holes at 4544', mix and place cement inside/outside to cover Mesa Verde formation top.

Plug 3: Perforate holes at 5284', mix and place cement inside/outside to cover Mancos formation top.

Plug 2: Spot balanced plug from 6257' up to 6157' to cover Gallup formation top.

Run CBL from 7025' to bottom of 3 1/2".

Plug 1: Spot plug from 7122' up to 7025' to cover Graneros perforations.

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

AFMSS 2 Sundry ID 2699102

Attachment to notice of Intention to Abandon

Well: Jicarilla Apache A 6

**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. The following modifications to your plugging program are to be made:
  - a. Send CBL results to Kenneth Rennick, BLM, at [krennick@blm.gov](mailto:krennick@blm.gov). Instead to Joe Killins, BLM, at [jkillins@blm.gov](mailto:jkillins@blm.gov).
  - b. For Plug 5, top of cement needs to be a minimum 50' above the liner top at 3850'. Inform the BLM of the tag depth for this plug. Additional cement may be required if the top of cement is not achieved.
3. 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 10/25/2022



**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)

# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 10/25/2022

Well No. Jicarilla Apache A 6 (API 30-039-05839)	Location	SWNW				
Lease No. JIC9	Sec. 26	T25N			R5W	
Operator DJR Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 7137'	PBTD 7130'	Formation Graneros, Gallup				
Elevation (GL) 6723'		Elevation (DF) 6735'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm	923				Possible freshwater sands
Ojo Alamo Ss	2158				Aquifer (possible freshwater)
Kirtland Shale	2483				
Fruitland Fm	2688				Coal/Gas/Possible water
Pictured Cliffs Ss	2840				Gas
Lewis Shale	2914				
Chacra	3705				Gas
Cliff House Ss	4494				Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale	5234				
Gallup	6207				O&G/Water
Greenhorn					
Graneros Shale	7085				
Dakota Ss					O&G/Water

Remarks:

P & A

Reference Well:

- No raster logs available for the well. Formation tops by the operator is appropriate for the area.
- Graneros perforations 7088 – 7122'. Chacra perforations 3722 – 3744'.

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 154180

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 154180
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	10/31/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	10/31/2022
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	10/31/2022