

Well Name: JICARILLA APACHE D	Well Location: T23N / R5W / SEC 2 / SESW /	County or Parish/State: RIO ARRIBA / NM
Well Number: 2	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC40	Unit or CA Name:	Unit or CA Number:
US Well Number: 3003921215	Well Status: Gas Well Shut In	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2679648

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/29/2022	Time Sundry Submitted: 11:47
Date proposed operation will begin: 06/29/2022	

**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\_Submittal\_20220629114705.pdf

Received by OCD: 7/18/2022 12:25:26 PM

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Conditions of Approval

Additional

General\_Requirement\_PxA\_20220718113040.pdf  
2679648\_NOIA\_D\_2\_3003921215\_KR\_07182022\_20220718113021.pdf  
Jicarilla\_Apache\_D\_\_2\_Geo\_Rpt\_20220718095522.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: JUN 29, 2022 11:47 AM
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: 07/18/2022
Signature: Kenneth Rennick	

**Plug and Abandonment Procedure**  
**for**  
**DJR Operating, LLC**  
**Jicarilla Apache D 2**  
**API 30-039-21215**  
**SE/SW, Unit N, Sec. 2, T23N, R5W**  
**Rio Arriba County, NM**

**NOTE:** The primary cement job in 1976 yielded sporadic results. Unless otherwise and clearly indicated by the original CBL on file, DJR will be placing inside/outside plugs across all intervals. If a rate cannot be established into perf holes, a balanced plug will be set, and as much cement as possible squeezed. The casing will then be shut in with pressure, and after the prescribed WOC time, the TOC will be tagged.

**I.**

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU.
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 1-1/4" IJ tubing. LD tubing to be sent in for storage/salvage.
7. RU Pump, pit, and power swivel. PU 3-blade mill and 4x3-1/8" drill collars on workstring. TIH to 2500', mill up CIBP and push to bottom. TOOH.
8. Plug 1: Top of original Dakota cement plug: Spot blind plug from near top of milled-up CIBP to at least 6625'. Pump water to ensure tubing is clear. WOC. Tag TOC.
9. Plug 2: Gallup top: Perf holes at 5502'. Set CR near 5452'. Attempt to establish rate. Mix and pump sufficient volume to bring TOC to 5402', inside and outside. Pump water to ensure tubing is clear.

10. Plug 3: Mancos top: Perforate holes at 4702'. Set CR near 4652'. Attempt to establish rate. Mix and pump sufficient volume to bring TOC to 4602', inside and outside. Pump water to ensure tubing is clear.
11. Plug 4: Mesa Verde: Perforate holes at 3815'. Set CR near 3765'. Attempt to establish rate. Mix and pump sufficient volume to bring TOC to 3715', inside and outside. Pump water to ensure tubing is clear.
12. Plug 5: Chacra: Mix and pump a balanced plug from 3130-3030'. Pump water to ensure tubing is clear.
13. Plug 6: Pictured Cliffs perms and top: Set CR near 2270'. Attempt to establish rate. Mix and pump and attempt to squeeze below and spot above CR sufficient volume to bring TOC to 2220', inside and outside.
14. Plug 7: Fruitland, Kirtland, and Ojo Alamo: Perf holes at 2002'. Set CR near 1952'. Attempt to establish rate. Mix and pump sufficient volume to bring TOC to 1679', inside and outside. Pump water to ensure tubing is clear.
15. Plug 8: Nacimiento, surface casing shoe, surface plug: Perf holes at 446'. Attempt to establish rate. Mix and pump sufficient volume to bring TOC to surface, inside and outside.
16. 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.
17. RD and MO all rig and cement equipment. Assure that location is free of trash and contamination before moving off.
18. 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 is to be installed at surface, 12"x18", and exposed at the reclaimed GL surface.**

**Current Wellbore Diagram**  
**DJR Operating, LLC**  
**Jicarilla Apache D 2**

API # 30-039-21215  
 SE/SW, Unit N, Sec 2, T23N, R5W  
 Rio Arriba County, NM

GL 6736'  
 KB 6750'  
 Spud Date 6/13/1976

SURF CSG

Hole size 12.25"  
 Csg Size: 8.625"  
 Wt: 24#  
 Grade: K-55  
 ID: 8.097"  
 Depth 349'  
 Csg cap ft<sup>3</sup>: 0.3576  
 TOC: Surface

FORMATION TOPS

Nacimiento\* 396'  
 Ojo Alamo\* 1729'  
 Kirtland\* 1856'  
 Fruitland\* 1952'  
 Pictured Cliffs 2270'  
 Chacra 3080'  
 Mesa Verde\*\* 3765'  
 Mancos 4652'  
 Gallup 5452'  
 Dakota 6675'

\*Not logged/\*\*log hung up

Prod Tubing Detail:

71 jts. 1-1/4" IJ tbg. SN at 2322'.

PROD CSG

Hole size 7.875"  
 Csg Size: 5.5"  
 Wt: 15.5#  
 Grade: K-55  
 ID: 4.950"  
 Depth 6968'  
 Csg cap ft<sup>3</sup>: 0.1336  
 Csq/Csq Ann ft<sup>3</sup>: 0.1926  
 Csg/OH cap ft<sup>3</sup>: 0.1733  
 TOC: Stg 1 (CBL) 6080'  
 TOC: Stg 2 (CBL) 5070'  
 TOC: Stg 3 (CBL) 2800'  
 Cement coverage sporadic

Perfs 2288-2355'

CIBP 2500'  
 TOC ~2800'

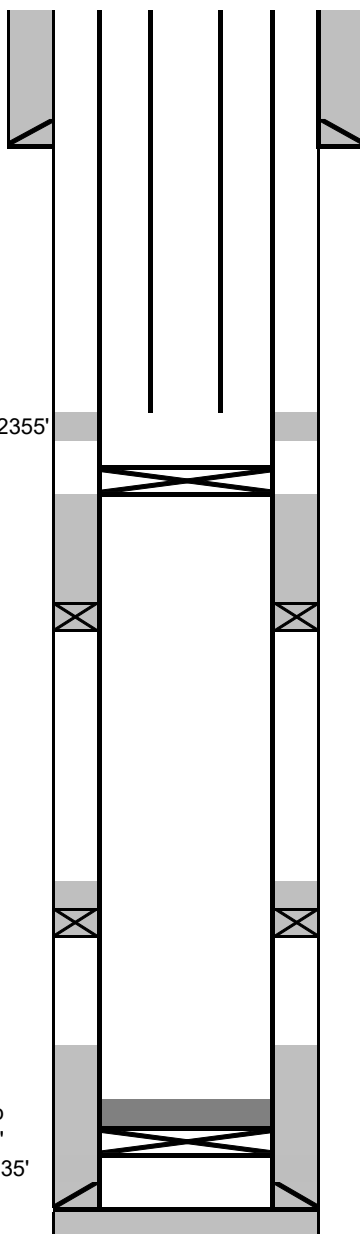
DV Tool at 3334'

TOC ~5070'  
 DV Tool at 5274'

TOC ~6080'

1 sx cement on top  
 CIBP @ 6650'  
 Abandoned Perfs 6690-6735'

TD 6970'



**Proposed P&A Wellbore Diagram**  
**DJR Operating, LLC**  
**Jicarilla Apache D 2**  
 API # 30-039-21215  
 SE/SW, Unit N, Sec 2, T23N, R5W  
 Rio Arriba County, NM

GL        6736'  
 KB        6750'  
 Spud Date    6/13/1976

**SURF CSG**

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 Csg Size:        8.625"  
 Wt:                24#  
 Grade:            K-55  
 ID:                8.097"  
 Depth            349'  
 Csg cap ft':      0.3576  
 TOC:              Surface

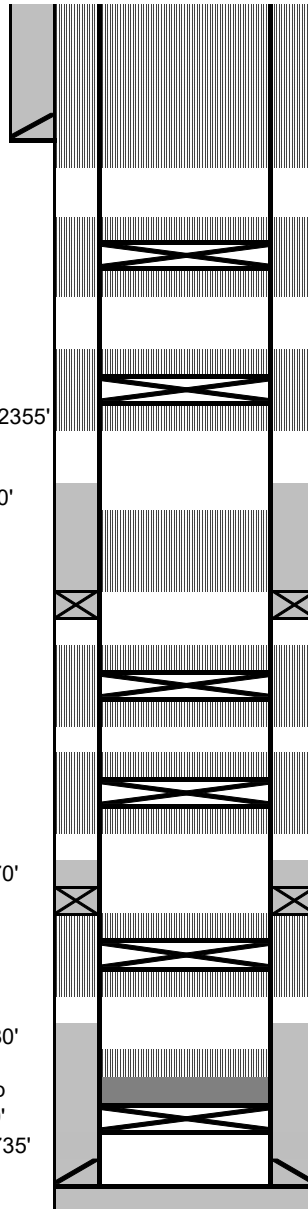
**FORMATION TOPS**

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 Cement coverage sporadic

Perfs 2288-2355'  
 TOC ~2800'  
 TOC ~5070'  
 TOC ~6080'  
 1 sx cement on top  
 CIBP 6650'  
 Abandoned Perfs    6690-6735'  
 TD    6970'



Plug 8: Nacimiento, surface casing shoe, surface plug: Perf holes at 446'. Mix and pump sufficient volume to bring TOC to surface, inside and outside.

Plug 7: Fruitland, Kirtland, and Ojo Alamo: Perf holes at 2002'. Set CR near 1952'. Mix and pump sufficient volume to bring TOC to 1679', inside and outside.

Plug 6: Pictured Cliffs: Set CR near 2270'. Mix and pump, and attempt to place sufficient volume into existing pefrs to bring TOC to 2220', inside and outside.

Plug 5: Chacra: Mix and pump balanced plug from 3130-3030'.

DV Tool at 3334'

Plug 4: Mesa Verde: Perf holes at 3815'. Set CR near 3765'. Mix and pump sufficient volume to bring TOC to 3715', inside and outside.

Plug 3: Mancos: Perf holes at 4702'. Set CR near 4652'. Mix and pump sufficient volume to bring TOC to 4602', inside and outside.

DV Tool at 5274'

Plug 2: Gallup: Perf holes at 5502'. Set CR near 5452'. Mix and pump sufficient volume to bring TOC to 5402', inside and outside.

Plug 1: Tag TOC above existing CR. Spot blind plug above milled-up CR to bring TOC to at least 6625'.

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

AFMSS 2 Sundry ID 2679648

Attachment to notice of Intention to Abandon

Well: Jicarilla Apache D 2

**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 7/18/2022

**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 - FFO - Geologic Report****Date Completed** 7/13/2022

Well No. Jicarilla Apache D # 2 Surf. Loc. 990 FSL 1650 FWL  
 Sec. 2 T23N R5W

Lease No. Jic 40  
 Operator DJR Operating LLC County Rio Arriba State New Mexico  
 TVD 6970 PBTD 2500 Formation Ballard Pictured Cliffs  
 Elevation GL 6736 Elevation Est. KB 6750

Geologic Formations	Est. tops	Subsea Elev.	Remarks
San Jose	Surface		Surface
Nacimiento Fm.	396	6354	Fresh water sands
Ojo Alamo Ss	1755	4995	Aquifer (fresh water)
Kirtland Fm.	1920	4830	
Fruitland Fm.	1985	4765	Coal/gas/possible water
Pictured Cliffs Ss	2240	4510	Probable water
Lewis Shale	2415	4335	
Huerfanito Bentonite	2605	4145	Reference bed
Chacra (Upper)	2735	4015	Probable water or dry
Lewis Shale Stringer	2800	3950	
Chacra (Lower)	3040	3710	Probable water or dry
Lewis Shale Stringer	3440	3310	
Cliff House	3765	2985	Probable water or gas
Menefee	3885	2865	Coal/ss/water/possible gas
Point Lookout Fm.	4370	2380	Water
Mancos Shale	4652	2098	Source Rock
El Vado Ss	5030	1720	O&G
Tocito SS	5110	1640	O&G
Gallup	5452	1298	O&G
Gallup (bottom)	5710	1040	O&G
Mancos Stringer	5710	1040	
Juana Lopez	6120	630	
Mancos Stringer	6280	470	
Greenhorn	6450	300	
Graneros	6575	175	
Dakota Ss	6675	75	O&G

Remarks:Reference Wells:

	Surface-Lewis Shale: DJR Operating LLC Axi Apache C # 12 1000' FSL, 1660' FEL 3O-23N-5W GL= 6668', KB= 6685'  Huerfanito Bentonite- TD Same
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Prepared by: Walter Gage

**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 126306

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 126306
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	7/19/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	7/19/2022