

Well Name: OTERO	Well Location: T23N / R5W / SEC 5 / NWNE /	County or Parish/State: RIO ARRIBA / NM
Well Number: 1	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: 3003926885	Well Status: Gas Well Shut In	Operator: DJR OPERATING LLC

Notice of Intent

Sundry ID: 2677139

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 06/15/2022	Time Sundry Submitted: 03:09
Date proposed operation will begin: 06/15/2022	

**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\_20220615150933.pdf

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Conditions of Approval

Additional

General\_Requirement\_PxA\_20220708143044.pdf  
2677139\_NOIA\_1\_3003926885\_KR\_07082022\_20220708143007.pdf  
23N05W05BKd\_Otero\_1\_20220707134654.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 15, 2022 03:09 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: 07/08/2022  
Signature: Kenneth Rennick

**Plug and Abandonment Procedure**  
**for**  
**DJR Operating, LLC**  
**Otero 1**  
**API # 30-039-26885**  
**NW/NE, Unit B, Sec. 5, T23N, R5W**  
**Rio Arriba County, NM**

**I.**

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU prep 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. Set tubing stop as necessary. Trip out of hole with 2 3/8" tubing. LD tubing to be sent in for storage/salvage.

**II.**

7. MIRU P&A rig and equipment.
8. PU and TIH with bit and scraper on workstring. Make sure scraper will go past 6330'. TOOH.
9. Plug 1: Dakota perms and top: PU and TIH with 4-1/2" CR and set near 6330'. RU cement equipment. Pressure test tubing to 1000 psi. Sting out of CR. Roll hole. Pressure test casing to 600 psi. If casing doesn't test, notify office. Sting back into CR and attempt to squeeze below with 10 sx. Sting out and spot blind plug on top of CR to bring TOC to 6266'. Pump water to ensure tubing is clear.
10. . Plug 2: Gallup: Spot balanced plug from 5571-5471'. Pump water to ensure tubing is clear.

11. Plug 3: Mancos: Spot a balanced plug from 4669-4569'. Pump water to ensure tubing is clear.
12. Plug 4. Mesa Verde: Spot a balanced plug from 3710-3610'. Pump water to ensure tubing is clear.
13. Plug 5: Chacra: Spot a balanced plug from 3024-2924'. Pump water to ensure tubing is clear.
14. Plug 6. Pictured Cliffs, Fruitland, Kirtland, and Ojo Alamo: Spot a balanced plug from 2201-1576'. Pump water to ensure tubing is clear.
15. Plug 7: Nacimiento: Spot a balanced plug from 1032-932'. Pump water to ensure that tubing is clear.
16. Plug 8: Surface casing shoe and surface: Spot a balanced plug from 411' to surface. TOOH with workstring.
17. 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.
18. RD and MO all rig and cement equipment. Assure that location is free of trash and contamination before moving off.
19. 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**  
**Otero 1**

API # 30-039-26885  
 NW/NE, Unit B, Sec 5, T23N, R5W  
 Rio Arriba County, NM

GL        6560'  
 KB        6573'  
 Spud Date    2/24/2002

SURF CSG

Hole size        12.25"  
 Csg Size:        8.625"  
 Wt:                24#  
 Grade:            J-55  
 ID:                8.097"  
 Depth            361'  
 Csg cap ft<sup>3</sup>:    0.3576  
 TOC:              Surf

FORMATION TOPS\*

Nacimiento	982'
Ojo Alamo	1626'
Kirtland	1792'
Fruitland	1963'
Pictured Cliffs	2151'
Chacra	2974'
Mesa Verde	3660'
Mancos	4619'
Gallup	5521'
Dakota	6316'

PROD CSG

Hole size        7.875"  
 Csg Size:        4.5"  
 Wt:                11.6#  
 Grade:            J-55  
 ID:                4.00"  
 Depth            6732'  
 Csg cap ft<sup>3</sup>:    0.0872  
 Csg/Csg Ann ft<sup>3</sup>: 0.2471  
 Csg/OH cap ft<sup>3</sup>: 0.2278

\*Limited logged interval.  
 Referenced to Jicarilla  
 Apache B 18E Induction log  
 (30-039-29287)

TOC: Stg 1 (Circ cmt to surface)

TOC: Stg 2 (Circ cmt to surface)

DV Tool at 4642'

TOC at DV tool.

Dakota Perfs 6348-6498'

PBTD        6682'  
 TD          6730'

TOC at surface.

Prod Tubing Detail:

Top Down: 1 jt new 2-3/8" L80, 8' pup', 52 jts new L80, 9 jts scanned yellow band, 139 jts scanned blue band, SN, 1 jt scanned blue band, NC. SN at 6450. EOT at 6483'.

Rod Detail

Plunger lift well

**Proposed P&A Wellbore Diagram**  
**DJR Operating, LLC**  
**Otero 1**

API # 30-039-26885  
 NW/NE, Unit B, Sec 5, T23N, R5W  
 Rio Arriba County, NM

GL 6560'  
 KB 6573'  
 Spud Date 2/24/2002

SURF CSG

Hole size 12.25"  
 Csg Size: 8.625"  
 Wt: 24#  
 Grade: J-55  
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 Depth 361'  
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 TOC: Surf

FORMATION TOPS\*

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Hole size 7.875"  
 Csg Size: 4.5"  
 Wt: 11.6#  
 Grade: J-55  
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 Depth 6732'  
 Csg cap ft<sup>3</sup>: 0.0872  
 Csq/Csq Ann ft<sup>3</sup>: 0.2471  
 Csg/OH cap ft<sup>3</sup>: 0.2278

TOC: Stg 1 (Circ cmt to surface)

TOC: Stg 2 (Circ cmt to surface)

DV Tool at 4642'

CR near 6330'

Dakota Perfs 6348-6498'

PBDT 6682'

TD 6730'

Plug 8: Surface casing shoe and surface plug: Spot balanced plug from 411' to surface inside 4-1/2" casing.

Plug 7: Nacimiento: Spot balanced plug from 1032-932'.

Plug 6: Pictured Cliffs, Fruitland, Ojo Alamo: Spot balanced plug from 2201'-1576'.

Plug 5: Chacra: Spot balanced plug from 3024-2924'.

Plug 4: Mesaverde: Spot balanced plug from 3710-3610'.

Plug 3: Mancos: Spot balanced plug from 4669-4569'.

Plug 2: Gallup: Spot balanced plug from 5571-5471'.

Plug 1: Dakota perfs and top: Set CR near 6330'. Attempt to squeeze 10 sx below CR. Spot blind plug on top of CR to 6266'.

All plugs to be Class G cement mixed at 15.8 ppg and 1.15 ft<sup>3</sup>/sk

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

AFMSS 2 Sundry ID 2677139

Attachment to notice of Intention to Abandon

Well: Otero 1

**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.

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 7/8/2022

**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:** 07/07/2022

Well No. Otero #1 (API# 30-039-26885)		Location	910	FNL	&	1850	FEL
Lease No. JIC38		Sec. 05	T23N			R05W	
Operator DJR Operating, LLC		County	Rio Arriba		State	New Mexico	
Total Depth 6730'	PBTD 6682'	Formation Dakota					
Elevation (GL) 6560'		Elevation (KB) 6573'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose	Surface				Surface/possible freshwater sands
Nacimiento	behind surface casing	1626			Possible freshwater sands
Ojo Alamo Ss	1626	1792			Aquifer (possible freshwater)
Kirtland Shale	1792	1963			Possible gas
Fruitland	1963	2151			Coal/Gas/Water
Pictured Cliffs Ss	2151	2252			Probable Gas
Lewis Shale	2252	2974			
Chacra	2974	3660			Possible Gas
Cliff House Ss	3660	3760			Water/probable gas
Menefee	3760	4274			Coal/Ss/Water/probable gas
Point Lookout Ss	4274	4619			Probable water/O&G
Mancos Shale	4619	5521			Probable O&G
Gallup	5521	6225			Probable O&G
Greenhorn	6225	6291			
Graneros Shale	6291	6316			
Dakota Ss	6316	PBTD			O&G/water
Morrison					

Remarks:

P & A

- BLM estimate for the Nacimiento formation top varies from Operator.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Dakota perms 6348' – 6498'.

Reference Well:

1) **Formation Tops**  
DJR Operating, LLC  
Martin Whittaker #57  
970' FNL, 1850' FWL  
Sec. 05, T23N, R05W  
6598' KB

Prepared by: Chris Wenman

**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 123979

CONDITIONS

Operator:  DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID:  371838
	Action Number:  123979
	Action Type:  [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	7/12/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	7/12/2022