



Well Name: NATANI	Well Location: T21N / R6W / SEC 3 / SENE / 36.081259 / -107.451167	County or Parish/State: SANDOVAL / NM
Well Number: 27	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM17007	Unit or CA Name:	Unit or CA Number:
US Well Number: 300432082100S1	Well Status: Producing Gas Well	Operator: M & M PRODUCTION & OPERATION

Conditions of Approval

Additional

21N06W03HKmv\_Natani\_027\_20221108134800.pdf

Authorized

NMNM17007\_NOIA\_27\_NOIA\_APPROVED\_KGR\_11092022\_20221109090536.pdf

General\_Requirement\_PxA\_20221109084559.pdf

2699951\_NOIA\_27\_3004320821\_KR\_11092022\_20221109084552.pdf

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: 11/09/2022

Signature: Kenneth Rennick

Form 3160-5  
(June 2015)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENTFORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

5. Lease Serial No. NMNM17007

6. If Indian, Allottee or Tribe Name

**SUBMIT IN TRIPLICATE - Other instructions on page 2**

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

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No. Natani #027

2. Name of Operator DJR OPERATING, LLC

9. API Well No. 30-043-20821

3a. Address 1 ROAD 3263  
AZTEC, NM 874103b. Phone No. (include area code)  
(505) 632-347610. Field and Pool or Exploratory Area  
Rusty Chacra4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
1850' FNL x 790' FEL / H-03-21N-06W / 36.081260 -107.45115611. Country or Parish, State  
Sandoval County, NM**12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA**

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Hydraulic Fracturing	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input checked="" type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> 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.)

This request is being submitted for engineering & geological review prior to on site 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.

Received

SEP 23 2022

Farmington Field Office  
Bureau of Land Management14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)  
Shaw-Marie Ford

Title Regulatory Specialist

Signature Shaw-Marie Ford

Date 09/21/2022

**THE SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Kenneth Renside

Title PETROLEUM  
ENGINEER

Date 11/09/2022

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 FARMINGTON FIELD  
OFFICE

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.

(Instructions on page 2)

**Plug and Abandonment Procedure**  
**for**  
**DJR Operating, LLC**  
**Natani #027**  
**API # 30-043-20821**  
**SE/NE, Unit H, Sec. 3, T21N-R6W**  
**Sandoval County, NM**

1. Hold Pre job meeting, comply with all NMOCD, BLM and environmental regulations.
2. MIRU rig.
3. Check and record 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. TOO H with 1" tubing. LD tubing to be sent in for storage/salvage.
7. PU gauge ring and RIH to 1560'. POOH.
8. Plug 1 (Perfs and Chacra top): PU 1-1/4" workstring and TIH to 1648'. Spot balanced plug from 1648-1535'. Pump water to ensure tubing is clear. Pressure up on casing and SI. WOC. Tag TOC.
9. Plug 2 (Pictured Cliffs): Spot balanced plug from 1244-1144'. Pump water to ensure that tubing is clear.
10. Plug 3 (Fruitland, Kirtland, and Ojo Alamo): Spot balanced plug from 1022-566'. Pump water to ensure that tubing is clear.
11. Plug 4 (Surface casing shoe, surface plug): Spot balanced plug from 145' to surface.
12. RD cementing equipment. Cut off wellhead, fill any exposed annulus with cement, as necessary. **Install surface P&A marker as per BLM/OCD requirements.** Record GPS coordinates for P&A marker and the Final P&A Report. Photograph the P&A marker and attach to the report.

13. RD and MO all rig and cement equipment. Assure that location is free of trash before moving off.

14. 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.**

## Current Wellbore Diagram

DJR Operating, LLC

Natani 27

API # 30-043-20821

SE/NE, Unit H, Sec 3, T21N, R6W

Sandoval County, NM

GL 6941'  
 KB 6946'  
 Spud Date 5/6/1988

SURF CSG

Hole size 8.75"  
 Csg Size: 7"  
 Wt: 23#  
 Grade: J-55  
 ID: 6.366"  
 Depth 95'  
 cap cf/ft: 0.2210  
 TOC: Surface

FORMATION TOPS

San Jose Surf  
 Nacimiento N/A  
 Ojo Alamo 616'  
 Kirtland 787'  
 Fruitland 972'  
 Pictured Cliffs 1194'  
 Chacra 1585'

PROD TBG DETAIL:

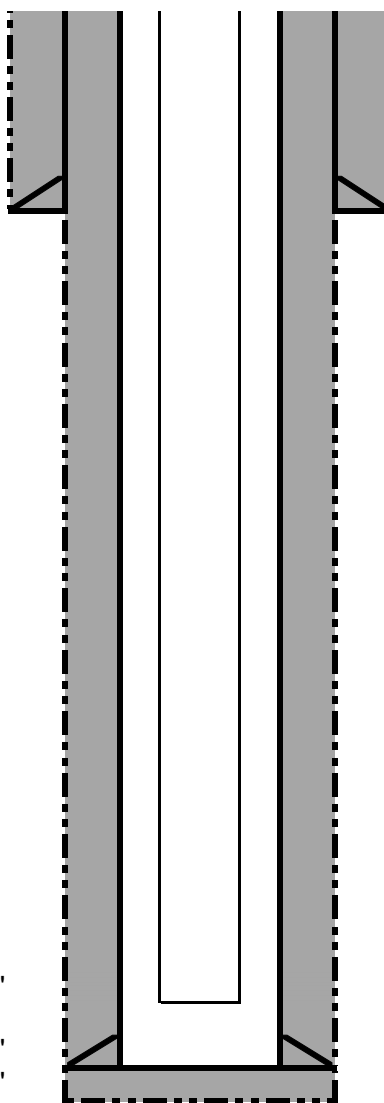
1640' of 1"

PROD CSG

Hole size 4.75"  
 Csg Size: 2.875"  
 Wt: 6.5#  
 Grade: J-55  
 ID: 2.441"  
 Depth 1858'  
 cap cf/ft: 0.0325  
 Csg/Csg Ann, 0.1822  
 cf/ft:  
 Csg/OH Ann, 0.0780  
 cf/ft:  
 TOC: Circulated cement to surface.

Perfs 1598-1709'

PBTD 1825'  
 TD 1865'



## Proposed Wellbore Diagram

## DJR Operating, LLC

Natani 27

API # 30-043-20821

SE/NE, Unit H, Sec 3, T21N, R6W

Sandoval County, NM

GL 6941'

KB 6946'

Spud Date 5/6/1988

SURF CSG

Hole size 8.75"  
 Csg Size: 7"  
 Wt: 23#  
 Grade: J-55  
 ID: 6.366"  
 Depth 95'  
 cap cf/ft: 0.2210  
 TOC: Surface

FORMATION TOPS

Formation	Depth
San Jose	Surf
Nacimiento	N/A
Ojo Alamo	616'
Kirtland	787'
Fruitland	972'
Pictured Cliffs	1194'
Chacra	1585'

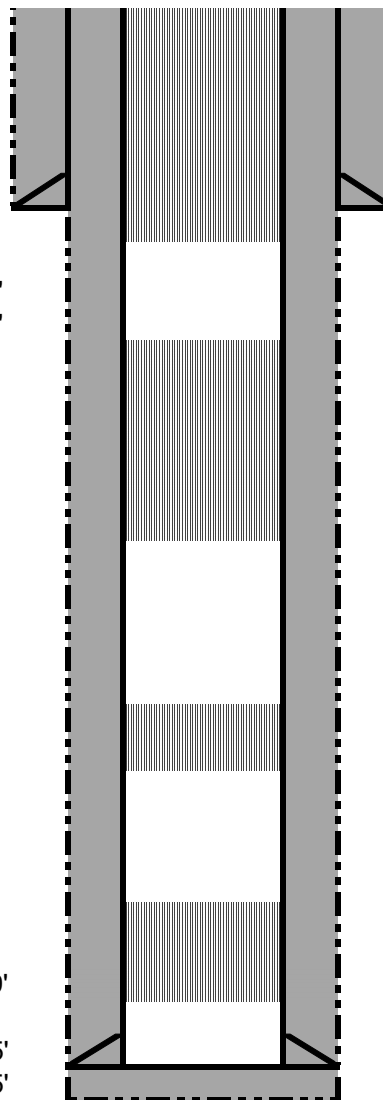
PROD CSG

Hole size 4.75"  
 Csg Size: 2.875"  
 Wt: 6.5#  
 Grade: J-55  
 ID: 2.441"  
 Depth 1858'  
 cap cf/ft: 0.0325  
 Csg/Csg Ann, cf/ft: 0.1822  
 Csg/OH Ann, cf/ft: 0.0780  
 TOC: Circulated cement to surface.

Perfs 1598-1709'

PBD 1825'

TD 1865'



Plug 4: Surface shoe and surface plug: Spot balanced plug from 145' to surface.

Plug 3: Fruitland, Kirtland, and Ojo Alamo: Spot balanced plug from 1022-566'.

Plug 2: Pictured Cliffs: Spot balanced plug from 1244-1144'.

Plug 1: Perfs and Chacra top: Spot plug from 1648-1535'.

All plugs will include 50' excess inside casing.

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

AFMSS 2 Sundry ID 2699951

Attachment to notice of Intention to Abandon

Well: Natani 27

**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 11/9/2022



**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:** 11/08/2022

Well No. Natani #027 (API# 30-043-20821)	Location	1850	FNL	&	790	FEL
Lease No. NMNM17007	Sec. 03	T21N			R06W	
Operator M & M Production & Operation	County	Sandoval			State	New Mexico
Total Depth 1865'	PBTD 1825'	Formation Chacra				
Elevation (GL)		Elevation (KB) 6946'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose			Surface	Behind casing	
Nacimiento			Behind casing	616	Surface/freshwater sands
Ojo Alamo Ss			616	787	Aquifer (possible freshwater)
Kirtland Shale			787	972	Possible gas
Fruitland			972	1194	Coal/Gas/Water
Pictured Cliffs Ss			1194	1238	Probable Gas
Lewis Shale			1238	1585	
Chacra			1585	PBTD	Gas
Cliff House Ss					
Menefee					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison					

Remarks:

P & A

- Note: DJR Operating, LLC is plugging this well as record title owner of the lease.
- Chacra perfs 1598' – 1709'.

Reference Well:

1) **Formation Tops**  
Same

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 157457

CONDITIONS

Operator: DJR OPERATING, LLC 1 Road 3263 Aztec, NM 87410	OGRID: 371838
	Action Number: 157457
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	11/14/2022
kpickford	Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report.	11/14/2022