U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

# Sundry Print Report

10/25/2022

**Well Name:** DEBRA GEIGER

**Well Location:** T24N / R11W / SEC 4 / NWNW / 36.335922 / -107.999329

**County or Parish/State:** SAN JUAN / NM

**Well Number:** 1

**Type of Well:** OIL WELL

**Allottee or Tribe Name:**

**Lease Number:** NMNM36356

**Unit or CA Name:**

**Unit or CA Number:**

**US Well Number:** 3004528194

**Well Status:** Oil Well Shut In

**Operator:** DJR OPERATING LLC

## Notice of Intent

**Sundry ID:** 2699100

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 10/21/2022

**Time Sundry Submitted:** 12:01

**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_20221021120128.pdf

CONFIDENTIAL

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## Conditions of Approval

**Specialist Review**

25N11W32_Debra_Geiger_1_Geo_KGR_20221025080843.pdf

2699100_NOIA_1_3004528194_KR_10252022_20221025080837.pdf

General_Requirement_PxA_20221025080829.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 12:01 PM

**Name:** DJR OPERATING LLC

**Title:** Regulatory Specialist

**Street Address:** 1 Road 3263

**City:** Aztec **State:** NM

**Phone:** (505) 632-3476

**Email address:** sford@djrllc.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:** 10/25/2022

**Signature:** Kenneth Rennick



Released to Imaging: 10/27/2022 7:36:44 AM

**Plug and Abandonment Procedure**
**for**
**DJR Operating, LLC**
**Debra Geiger 1**
**API # 30-045-28194**
**SHL: SE/SE, Unit P, Sec. 32, T25N, R11W**
**BHL: NW/NW, Unit D, Sec4, T24N, R11W**
**San Juan County, NM**

**NOTE: This well is a horizontal well: No logs were run above the top of liner in this well. The formation top depths are estimated from correlation to the Devon Nielsen 1 TVD depths.**

1. Hold pre-job meeting, comply with all NMOCD and BLM 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. MIRU hot oil unit, pump hot water to clear rods and tubing of paraffin.
6. Trip out of hole with rods and pump. Lay down to be sent in for storage/salvage.
7. Unset TAC.
8. ND WH, NU BOP, function test BOP.
9. Trip out of hole with 2 7/8" tubing. LD tubing to be sent in for storage/salvage.
10. TIH with 2 3/8" workstring to 5500' MD.
11. P&A Plug 1: Mix and pump a blind plug of 126.5 cuft from 5500'MD. Pull up hole to 5100'MD. WOC. TIH, tag Plug 1. Note: Since Plug 1 is in the horizontal section of the well and the liner is slotted and uncemented, cement may have to be placed several times to cover the top of the slotted liner. Refer to the Proposed P&A WBD. After cement has been placed above the top of the slotted liner, proceed to Plug 2.
12. Load and roll the hole. PT casing.
13. RIH, perforate holes at top of Plug 1, POOH.
14. Plug 2: Mix and pump cement as needed to place cement to inside/outside to 5000' MD. SI pipe rams and squeeze cement out holes and behind liner.

15. RIH, perforate holes at top of Plug 2, POOH.

16. Plug 3: Gallup formation top and TOL: Mix and pump cement as needed to place cement outside to 4599' MD (liner top) and inside from 5000' MD to 4500' MD. WOC. Tag Plug 3. Pull up to 3930' MD. PT casing.

17. Plug 4: Mancos formation top: Mix and pump balanced plug of 96 cuft from 3930' MD to 3710' MD. Pull up to 2017' MD.

18. Plug 5: Mesa Verde formation top: Mix and pump balanced plug of 87 cuft from 2017' MD to 1817' MD. Pull up to 1601' MD.

19. Plug 6: Chacra formation top: Mix and pump balanced plug of 87 cuft from 1601' MD to 1401' MD. Pull up to 1251' MD.

20. Plug 7: Pictured Cliffs formation top: Mix and pump balanced plug of 87 cuft from 1251' MD to 1051' MD. Pull up to 883' MD.

21. Plug 8: Fruitland formation top: Mix and pump balanced plug of 87 cuft from 883' MD to 683' MD. Pull up to 677' MD. Reverse out from 677'.

22. Plug 9: Kirtland and Ojo Alamo formation tops: Mix and pump balanced plug of 129 cuft from 677' to 381'MD. Pull up to 381'MD, reverse out from 381'MD.

23. Plug 10: Surface casing shoe to surface: Mix and pump balanced plug of 165 cuft from 381'MD to surface. TOOH.

24. 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.

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

26. Send all reports and attachments to DJR Aztec office for regulatory filings.

**Note: All cement is planned 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.**

# Current Wellbore Diagram

## DJR Operating, LLC

### Debra Geiger 1

**API # 30-045-28194**
**SE/SE, Unit P, Sec 32, T25N, R11W (SHL)**
**NW/NW, Unit D, Sec 4, T24N, R11W (BHL)**
**San Juan County, NM**

| | |
|---|---|
| **GL** | **6485'** |
| **KB** | **6498'** |
| **Spud Date** | **1/17/1991** |

**This is a Horizontal Well**

**SURF CSG**

| | |
|---|---|
| **Hole size** | 17-1/2" |
| **Csg Size:** | 13-3/8" |
| **Wt:** | 54.5# |
| **Grade:** | K-55 |
| **ID:** | 12.615" |
| **Depth** | 356' |
| **TOC:** | Surface |
| | 25 bbl |

**INT CSG**

| | |
|---|---|
| **Hole size** | 12-1/4" |
| **Csg Size:** | 9-5/8" |
| **Wt:** | 36/40# |
| **Grade:** | K-55 |
| **ID:** | 8.921" |
| **Depth** | 5198' |
| **Csg/Csg Ann ft$^3$:** | 0.3765 |
| **Csg/OH cap ft$^3$:** | 0.3132 |
| **TOC:** | Surface |
| | 73 bbl |

**Liner**

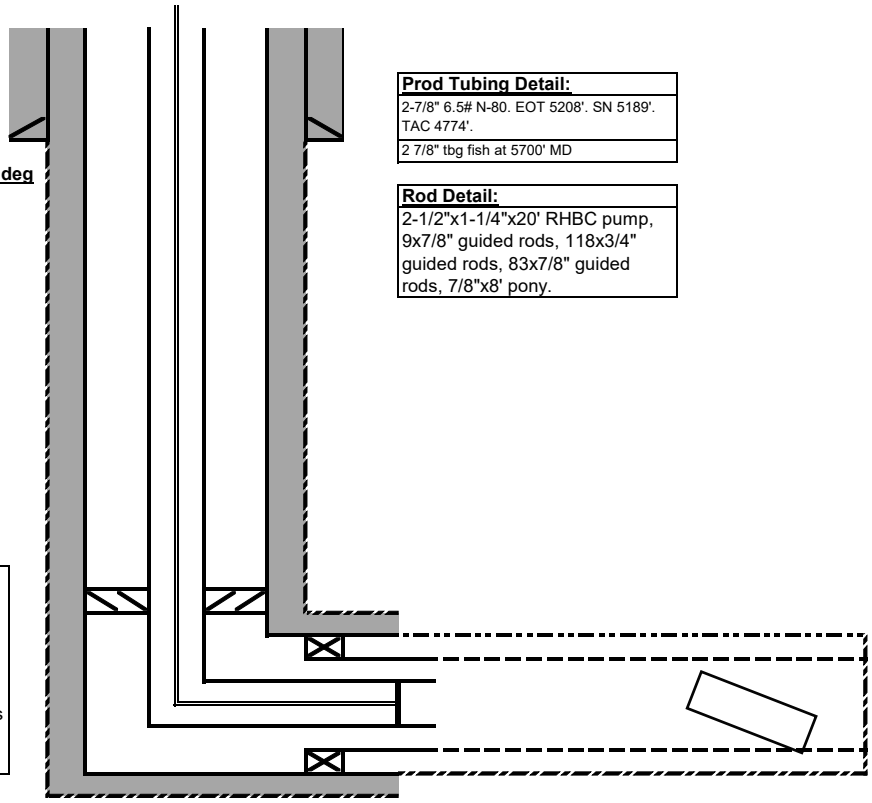
| | |
|---|---|
| **Hole size** | 8-3/4" |
| **Csg Size:** | 5-1/2" |
| **Wt:** | 17# |
| **Grade:** | K-55 |
| **ID:** | 4.892" |
| **Regular Liner*** | 4599-5530' (MD) |
| **Slotted Liner*** | 5530'-6094' (MD) |

*Liner not cemented

**FORMATION TOPS***

| | MD | TVD | Inc deg |
|---|---|---|---|
| **Nacimiento** | Surface | Surface | |
| **Ojo Alamo** | | 506' | 0.4 |
| **Kirtland** | | 602' | 0.1 |
| **Fruitland** | | 808' | 0.2 |
| **Pictured Cliffs** | | 1176' | 0.5 |
| **Lewis** | | 1349' | 0.3 |
| **Chacra** | | 1526' | 0.4 |
| **Mesa Verde** | | 1942' | 0.03 |
| **Mancos** | 3843' | 3769' | 22.8 |
| **Liner Top** | 4599' | 4450' | 39 |
| **Gallup** | 4934' | 4497' | 61 |
| **Int Csg Shoe** | 5198' | 4750' | 79 |
| **Top of slotted Lnr** | 5530' | 4776' | 85.5 |
| **Top of fish** | 5700' | 4787' | 88 |
| **Max Inc** | 6001' | 4784' | 95.6 |
| **TD** | 6098' | 4780' | 89.3 |

*No logs. Estimated from Devon Nielsen 1 (True Vertical Depth Log 10/10/1990, 30-045-28195, direct offset well) , and correlated with Debra Geiger directional survey. Deviation from vertical begins near 2193', so only Mancos and Gallup are impacted. These tops were interpolated from that survey.



**Prod Tubing Detail:**

2-7/8" 6.5# N-80. EOT 5208'. SN 5189'. TAC 4774'.

2 7/8" tbg fish at 5700' MD

**Rod Detail:**

2-1/2"x1-1/4"x20' RHBC pump, 9x7/8" guided rods, 118x3/4" guided rods, 83x7/8" guided rods, 7/8"x8' pony.

**Proposed P&A**

# DJR Operating, LLC

## Debra Geiger 1

**API # 30-045-28194**
**SE/SE, Unit P, Sec 32, T25N, R11W (SHL)**
**NW/NW, Unit D, Sec 4, T24N, R11W (BHL)**
**San Juan County, NM**

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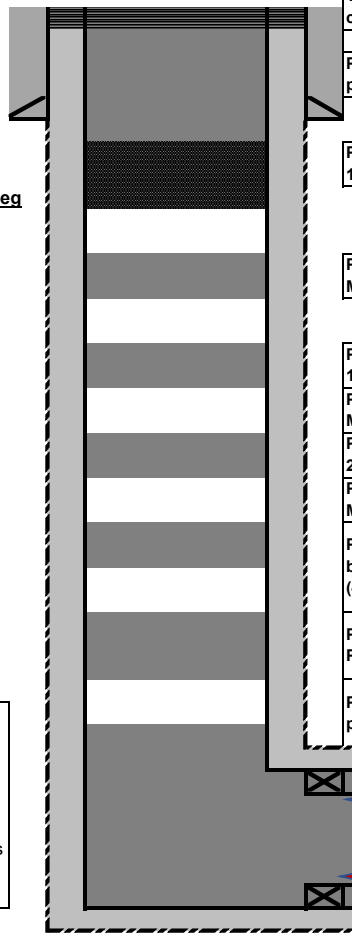

**Top off: cut off WH. Check TOCs. Install P&A marker, top off casings and cellar.**

**Plug 10: Surface casing shoe to surface: Mix and pump a balanced plug of 165 cuft from 381' MD to surface.**

**Plug 9: Kirtland and Ojo Alamo: Mix and pump a balanced plug of 129 cuft from 677' MD to 381' MD.**

**Plug 8: Fruitland: Mix and pump a balanced plug of 87 cuft from 883' MD to 683' MD.**

**Plug 7: Pictured Cliffs: Mix and pump a balanced plug of 87 cuft from 1251' MD to 1051' MD.**

**Plug 6: Chacra: Mix and pump a balanced plug of 87 cuft from 1601' MD to 1401' MD.**

**Plug 5: Mesa Verde: Mix and pump a balanced plug of 87 cuft from 2017' MD to 1817' MD.**

**Plug 4: Mancos: Mix and pump a balanced plug of 141 cuft from 3930' MD (3944' TVD) to 3710', (3644' TVD).**

**Plug 3: Gallup and TOL: Perforate at top of Plug 2. Mix and pump a balanced plug of 95.5 cuft from 5000' MD (4685' TVD) to 4500' MD (4370' TVD) and squeeze cement into holes and outside liner.**

**Plug 2: Perforate at top of Plug 1. Spot cement as needed on top of Plug 1 to bring cement up to 5000' MD inside/outside.**

**Plug 1: Within 100' from top of perforations (slotted liner): Spot blind plug of 126.5 cuft from 5500' MD to 5200' MD. WOC. Tag Plug 1.**

**NOTE:**

1. The cement plug depths were calculated using log depths as indicated above. To assure that formation tops were covered as required, including the required excess, the bottom of the plug was placed 75 ft below the estimated formation top and the plug top was placed 125' above the estimated formation top.

# 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 $H_2S$.

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.

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

AFMSS 2 Sundry ID 2699100

Attachment to notice of Intention to Abandon

Well: Debra Geiger 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 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

# BLM FLUID MINERALS
# P&A Geologic Report

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

| | | | | | |
|---|---|---|---|---|---|
| Well No. Debra Geiger 1 | | Location | SESE | | |
| Lease No. NMNM36356 | | Sec. 32 | T25N | | R11W |
| Operator DJR Operating, LLC | | County | San Juan | State | New Mexico |
| Total Depth 6098' (MD) | PBTD NA | Formation | Gallup | | |
| Elevation (GL) 6485' | | Elevation (KB) | 6498' | | |

| Geologic Formations | Est. Top | Est. Bottom | Log Top | Log Bottom | Remarks |
|---|---|---|---|---|---|
| San Jose Fm | | | | | Surface/freshwater sands |
| Nacimiento Fm | | | | | Possible freshwater sands |
| Ojo Alamo Ss | 506' (TVD) | | | | Aquifer (possible freshwater) |
| Kirtland Shale | 602' (TVD) | | | | |
| Fruitland Fm | 808' (TVD) | | | | Coal/Gas/Possible water |
| Pictured Cliffs Ss | 1176' (TVD) | | | | Gas |
| Lewis Shale | 1349' (TVD) | | | | |
| Chacra | 1526' (TVD) | | | | Gas |
| Cliff House Ss | 1942' (TVD) | | | | Water/Possible gas |
| Menefee Fm | | | | | Coal/Ss/Water/Possible O&G |
| Point Lookout Ss | | | | | Probable water/Possible O&G |
| Mancos Shale | 3843' (MD) | | | | |
| Gallup | 4934' (MD) | | | | O&G/Water |
| Greenhorn | | | | | |
| Graneros Shale | | | | | |
| Dakota Ss | | | | | O&G/Water |

Remarks:
P & A

Reference Well:

- Gallup, Slotted Liner 5530' – 6094'.
- No raster log data for this well. The estimated formation tops by the operator are appropriate.

**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 153293

## CONDITIONS

| | |
|---|---|
| Operator:<br>DJR OPERATING, LLC<br>1 Road 3263<br>Aztec, NM 87410 | OGRID:<br>371838 |
| | Action Number:<br>153293 |
| | Action Type:<br>[C-103] NOI Plug & Abandon (C-103F) |

**CONDITIONS**

| Created By | Condition | Condition Date |
|---|---|---|
| kpickford | Notify NMOCD 24 Hours Prior to beginning operations | 10/27/2022 |
| kpickford | Adhere to BLM approved COAs and plugs. See BLM COAs and GEO report. | 10/27/2022 |