

Well Name: JICARILLA 98	Well Location: T26N / R3W / SEC 19 / NENE / 36.4766551 / -107.181277	County or Parish/State: RIO ARRIBA / NM
Well Number: 2	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC98	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390638900C2	Operator: SOUTHLAND ROYALTY COMPANY	

Notice of Intent

Sundry ID: 2900637

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 03/16/2026

Time Sundry Submitted: 09:50

Date proposed operation will begin: 10/01/2026

Procedure Description: MorningStar Operating requests approval of the attached Procedure to P&A the Jicarilla 98 #2. Also attached are the WBDs.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Jicarilla_98__2_Proposed_PA_WBD_03.09.2026_20260316094925.pdf

Jicarilla_98__2_Current_WBD_03.09.2026_20260316094916.pdf

Jicarilla_98__2_Proposed_PA_procedure_03.09.2026_20260316094906.pdf

Well Name: JICARILLA
Well Location: T26N / R3W / SEC 19 / NENE / 36.4766551 / -107.181277

County or Parish/State: RIO ARRIBA / NM

Well Number: 2

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name: JICARILLA APACHE

Lease Number: JIC98

Unit or CA Name:

Unit or CA Number:

US Well Number: 300390638900C2

Operator: SOUTHLAND ROYALTY COMPANY

Conditions of Approval

Authorized

General_Requirement_PxA_20260420091442.pdf

2900637_98_2_3003906389_NOIA_KR_04202026_20260420091249.pdf

Jicarilla_98_No_2_Geo_Rpt_20260420091249.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: CONNIE BLAYLOCK

Signed on: MAR 16, 2026 09:49 AM

Name: SOUTHLAND ROYALTY COMPANY

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth Worth

State: TX

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

Field

Representative Name: Amy Byars

Street Address:

City:

State:

Zip:

Phone:

Email address: abyars@txopartners.com

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: 04/20/2026

Signature: Kenneth Rennick

BLM - FFO - Geologic Report

Date Completed 4/17/2026

Well No. Jicarilla 98 No 2	Surf. Loc. 990	FNL 1190	FEL
Lease No. Jic98	Sec 19	T26N	R3W
Operator Southland Royalty Co.	County Rio Arriba	State	New Mexico
US Well No: 3003906389			
TVD 6110	PBTD 6069	Formation: Blanco Mesa Verde, Pictured Cliffs	
Elevation GL 7016	Elevation Est. KB 7030		

Geologic Formations	Est. tops	Elevation	Remarks
San Jose Fm.	Surface	7030	
Nacimiento Fm.	1360	5670	Surface /fresh water sands
Ojo Alamo Ss	3250	3780	Fresh water aquifer
Kirtland Fm.	3391	3639	
Fruitland Fm.	3464	3566	Coal/gas/possible water
Pictured Cliffs	3720	3310	Possible gas/water
Perfs	3730	3300	
Lewis Shale (Main)	3750	3280	Source rock
Chacra (Lower)	4624	2406	Possible gas/water
Cliff House Ss	5357	1673	Possible gas/water
Perfs	5361	1669	

Remarks:

-Vertical wellbore, all formation depths are TVD from KB at the wellhead.
 -Modify Plug 4. Make the TOC 3150' to account for the BLM geologist's pick for the Ojo Alamo and BLM regulations .

Reference Well:

Same

Prepared by: Walter Gage

**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 H₂S.

8.0 Within 30 days after plugging work is completed, file a Sundry Notice, Subsequent Report of Abandonment (Form 3160-5), through the Automated Fluid Minerals Support System (AFMSS) 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 Boulevard, Suite A
Farmington, New Mexico 87402
<http://www.blm.gov/nm>



CONDITIONS OF APPROVAL

April 20, 2026

Notice of Intent – Plug and Abandonment

Operator: MorningStar Operating LLC
AFMSS Operator Southland Royalty Company

Lease: JIC98

Well(s): Jicarilla 98 2, US Well # 30-039-06389

Sundry Notice ID #: 2900637

The Notice of Intent to Plug and Abandon is accepted with the following Conditions of Approval (COA):

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. **Modify Plug 4. Make the TOC 3150' to account for the BLM geologist's pick for the Ojo Alamo and BLM regulations.**
3. **Notification:** 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.

K. Rennick 04/20/2026

MorningStar Operating, LLC

Prepared by: BBerry
Date: 03.09.2026
Updated: 04.21.2026

GL = 7016'
API# 30-039-06389

Spud Date: 08/23/1956

Jicarilla 98 #2
Rio Arriba County, NM
S19 T26N R03W

Current WBD

TD – 6110' MD

10.5" hole to 345' KB
Surface Csg: 8-5/8"
Setting Depth: 345'

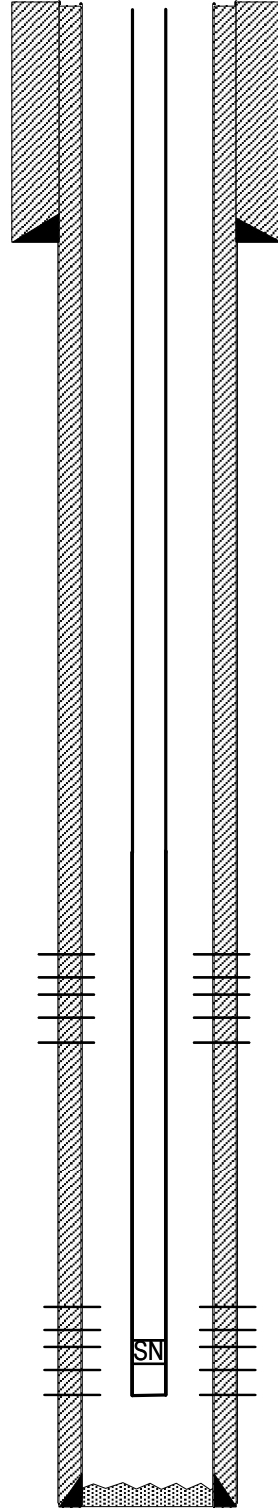
Cement
180 sx – Circulated cement to surf

7.25" hole to 6110'
Prod Csg: 5-1/2" 14.0# J55
Setting Depth: 6110'

Cement
200 sx

TOC Temp survey
5085' 09/1956

Cement thru holes at 3690' w/100sx cmt
TOC 3500' Temp survey



- *San Jose: Surface
- *Nacimiento: 1360'
- *Ojo Alamo: 3250'
- *Kirtland: 3391'
- *Fruitland: 3464'
- *Pictured Cliffs: 3720'
- "Chacra: 4624'
- *Cliffhouse: 5357'
- *Tops from BLM Geo Picks

01/06/1999 - Tubing
2 3/8" 4.7# J-55
1JT, SN, tbg to surface
EOT @ 5918', AND SN @ 5886'

PC Frac:
30,000 gal water 30,000# sand

PC Perfs(Hztl Notch):
3730' (overall)

MV Frac:
160,000 gal water 160,000# sand

MV Perfs:
5361-5967' (overall)

PBTB: 6069' MD

MorningStar Operating, LLC

Prepared by: BBerry
Date: 03.09.2026
Updated: 04.21.2026

GL = 7016'
API# 30-039-06389

Spud Date: 08/23/1956

Jicarilla 98 #2
Rio Arriba County, NM
S19 T26N R03W

Proposed P&A WBD

TD – 6110' MD

10.5" hole to 345' KB
Surface Csg: 8-5/8"
Setting Depth: 345'

Cement
180 sx – Circulated cement to surf

7.25" hole to 6110'
Prod Csg: 5-1/2" 14.0# J55
Setting Depth: 6110'

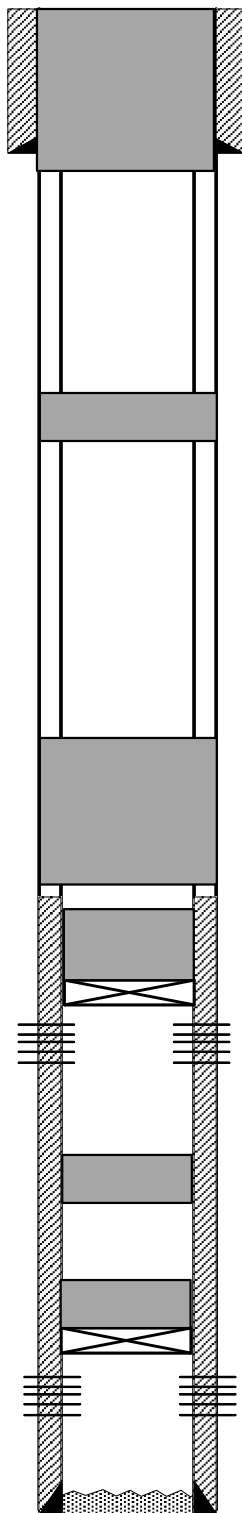
Cement
200 sx

TOC Temp survey
5085' 09/1956

Cement thru holes at 3690' w/100sx cmt
TOC 3500' Temp survey

PC Perfs(Hztl Notch):
3730'

MV Perfs:
5361-5967' (overall)



Plug 6 (Surf Csg Shoe)
Perf 395' attempt to establish circ – if circ established, pump 69 sx cmt outside plug plus 47 sx cmt inside plug – if no circ drop down to 445' and pump balance plug 53sx cmt (395-0')

Plug 5 (Nacimiento)
Perf 1410' attempt to establish injection – if inj established, pump 22 sx cmt outside plug plus 18 sx cmt inside plug – if no inj drop down to 1460' and pump balance plug 24sx cmt (1410-1260')

Plug 4 (Fruitland/Kirtland/Ojo Alamo)
Perf 3514' attempt to establish injection – if inj established, pump 78sx cmt outside plug plus 44sx cmt inside plug – if no inj drop down to 3530' and pump balance plug 46sx cmt (3514-3150')

Plug 3 (PC Perfs)
Set CICR/CIBP ~3680' Balance plug 18sx cmt (3680-3530')

Plug 2 (Chacra)
Balance Plug 18sx cmt (4674-4524')

Plug 1 (MV Perfs)
Set CICR/CIBP ~5311' Balance Plug 18sx cmt (5311-5161')

- *San Jose: Surface
- *Nacimiento: 1360'
- *Ojo Alamo: 3250'
- *Kirtland: 3391'
- *Fruitland: 3464'
- *Pictured Cliffs: 3720'
- *Chacra: 4624'
- *Cliffhouse: 5357'
- *Tops from BLM Geo Picks

PBTBD: 6069' MD

Proposed P&A Procedure_04.21.2026

Proposed P&A Procedure

Jicarilla 98 #2 API 3003906389

Notify Farmington BLM Office at least 24hrs in advance to plugging operations 505 564-7750

Notify NMOCD at least 24hrs in advance to plugging operations via email at

monica.kuehling@emnrd.nm.gov and loren.diede@emnrd.nm.gov

- All Cement Class G 15.8 ppg 1.15 cuft/sk yield
- Tbg, Csg, and Bradenhead pressure to be recorded and reported on each daily report to include the initial move in pressures
- CaCl₂ will be used for plugs requiring WOC
- Follow casing pressure testing as required by BLM/NMOCD
- WOC time is required for ANY plug that has been placed above a CIBP/CR or above any perforations, regardless if the casing has passed a pressure test or not
- WOC time is NOT required if the casing passed a pressure test AND that the plug is not above a CIBP/CR or perforations.

Proposed P&A Procedure_04.21.2026

Proposed Procedure

1. Make necessary advance 24 hr notifications as required.
2. Confirm WH BOP connection and existing tubing size before MIRU.
3. MIRU P&A services.
4. Pull existing tbg standing back – check if string good to use as workstring, if not MI 2 3/8” workstring.
5. MIRU wireline. Run gauge ring to ~5350’.
6. Set CICR/CIBP ~5311’.
7. Load/top off hole with FW in preparation for CBL.
 - a. Keep hole loaded as necessary to ensure CBL run to surface.
8. Run CBL from CIBP/CICR to surface. Send CBL for review to krennick@blm.gov, vlucero@blm.gov, monica.kuehling@emnrd.nm.gov, loren.diede@emnrd.nm.gov, rberry@txopartners.com.
 - a. Revise plugging plan if required.
9. RIH open ended.
10. Plug 1 (MV Perfs)
 - a. Balance plug **18sx** cement plug from 5311-5161’.
11. Plug 2 (Chacra)
 - a. Balance plug **18sx** cement plug from 4674-4524’.
12. Plug 3 (PC Perfs)
 - a. Set CICR/CIBP ~3680’
 - b. Balance plug **18sx** cement plug from 3680-3530’.
13. Plug 4 (Fruitland/Kirtland/Ojo Alamo)
 - a. Perforate 3514’.
 - b. Attempt to establish injection...
 - i. If established, pump outside plug **78sx** and inside plug **44sx**.
 - ii. if none, drop down to 3530’ and pump balance plug **46sx** cmt.
 - iii. Plug 3514-3150’
14. Plug 5 (Nacimiento)
 - a. Perforate 1410’.
 - b. Attempt to establish injection...
 - i. If established, pump outside plug **22sx** and inside plug **18sx**.

Proposed P&A Procedure_04.21.2026

- ii. if none, drop down to 1460' and pump balance plug **24sx** cmt.
 - iii. Plug 1410-1260'
15. Plug 6 (surface shoe circulation attempt)
- a. Perforate 395'.
 - b. Attempt to establish circulation...
 - i. If established, pump outside plug **69sx** and inside plug **47sx**.
 - ii. if none, drop down to 445' and pump balance plug to surface **53sx** cmt.
 - c. Ensure cement at surface on all strings of casing, top off as needed.
16. Cut off wellhead below surface casing flange.
17. Install P&A Marker.

Estimated 113 sx to 332 sx cement needed in total.

Please make sure all excess volumes are as follows:

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.

4.4 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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 577803

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 577803
	Action Type: [C-103F] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
jagarcia	Accepted for record	4/27/2026