

<b>Well Name:</b> JICARILLA 98	<b>Well Location:</b> T26N / R3W / SEC 19 / SWNW / 36.4749738 / -107.1911921	<b>County or Parish/State:</b> RIO ARRIBA / NM
<b>Well Number:</b> 8	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b> JICARILLA APACHE
<b>Lease Number:</b> JIC98	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300392016200S1	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> SOUTHLAND ROYALTY COMPANY

**Notice of Intent**

**Sundry ID:** 2775900

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 02/20/2024

**Time Sundry Submitted:** 12:42

**Date proposed operation will begin:** 09/01/2024

**Procedure Description:** MorningStar Operating requests approval of the attached P&A procedure for the Jicarilla 98 #8.

**Surface Disturbance**

**Is any additional surface disturbance proposed?:** No

**NOI Attachments**

**Procedure Description**

Jicarilla\_98\_8\_WBD\_Proposed\_PA\_02\_13\_2024\_20240220124112.pdf

Jicarilla\_98\_8\_WBD\_Current\_Est\_02\_12\_2024\_20240220124055.pdf

Jicarilla\_98\_8\_Proposed\_PA\_Procedure\_20240220124043.pdf

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Lease Number: JIC98

Unit or CA Name:

Unit or CA Number:

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Well Status: Producing Gas Well

Operator: SOUTHLAND ROYALTY COMPANY

### Conditions of Approval

#### Additional

26N03W19\_Jicarilla\_98\_8\_Geo\_KR\_20240223093331.pdf

2775900\_NOIA\_8\_3003920162\_KR\_02232024\_20240223093235.pdf

General\_Requirement\_PxA\_20240223092942.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: FEB 20, 2024 12:41 PM

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: 02/23/2024

Signature: Kenneth Rennick

## Proposed P&A Procedure

### Jicarilla 98-8 - 3003920162

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

1. MIRU P&A services and ancillary equipment.
2. POOH LD 1.25" tubing. MI 1.5" MT or similar workstring.
3. RIH bit on workstring to 3700' to ensure clearance for CIBP. POOH LD bit.
4. RU Wireline. RIH Set CIBP @ 3670'.
5. Run CBL from ~3600' to surface. Send CBL to BLM/NMOCD and MSO Engineering/Mgmt.
  - a. Revise remaining plugging plan with BLM/NMOCD approval if needed.
6. Plug 1 (PC Perfs/Fruitland/Kirtland/Ojo Alamo)
  - a. TIH workstring spot **18sx** cement on top of CIBP.
  - b. From 3670'-3259'
7. Circulate hole with BLM/OCD approved P&A fluid.
8. Plug 2 (Nacimiento)
  - a. Pump balanced plug **7sx** cement.
    - i. From 1445'-1295'
9. Plug 3 (surface shoe circulation attempt)
  - a. Perforate 290'.
  - b. Attempt to establish circulation...
    - i. if none, spot plug to surface in 3.5" estimated **13sx** needed.
    - ii. If established, estimated **61sx** required to fill annulus (including 100% excess in pipe/formation section) and inside 3.5" with excess as required.
  - c. Ensure cement at surface on all strings of casing, top off as needed.
10. Cut off wellhead below surface casing flange.
11. Install P&A Marker.

**Estimated 38 sx to 86 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.*

# MorningStar Operating, LLC

**Jicarilla 98-8**  
**Rio Arriba County, NM**

Prepared by: BBerry  
Date: 02/13/2024

KB = 7,043 ft  
GL = 7,030 ft  
API# 30-039-20162

Spud Date: 01/04/1969  
Ready to Produce: 04/29/1969

TD – 3800'; PBSD – 3750'

9" hole to 250'  
Sfc Csg: 7" 23#  
Setting Depth: 240'

Cement  
75 sx 'regular' cement  
TOC Est Surface (37 sx needed @ 1.15  
yield)

6 1/8" hole to 3800'  
Prod Csg: 3-1/2" 9.3#  
Setting Depth: 3795'

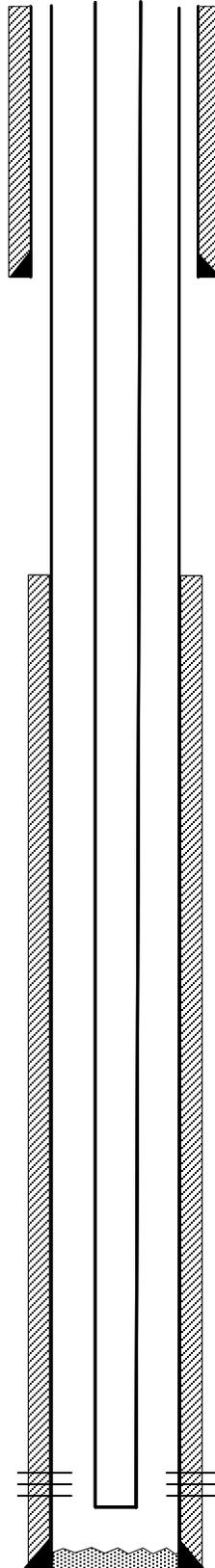
Cement  
50 sx 'regular' cement  
TOC TBD from CBL

Nacimiento (est): 1395'  
Ojo Alamo (est): 3309'  
Kirtland (est): 3426'  
Fruitland (est): 3499'  
Pictured Cliffs (est): 3699'

**Prod Tbg 04/14/1969:**

1.25" Tbg  
EOT=3738'

No other information available – no historic  
WO's found



Perforations PC  
3720'-3738' – 1 spf  
Frac 35kgal gelled water 35klbs  
20/40 sand

PBSD: 3750'

# MorningStar Operating, LLC

Jicarilla 98-8  
Rio Arriba County, NM

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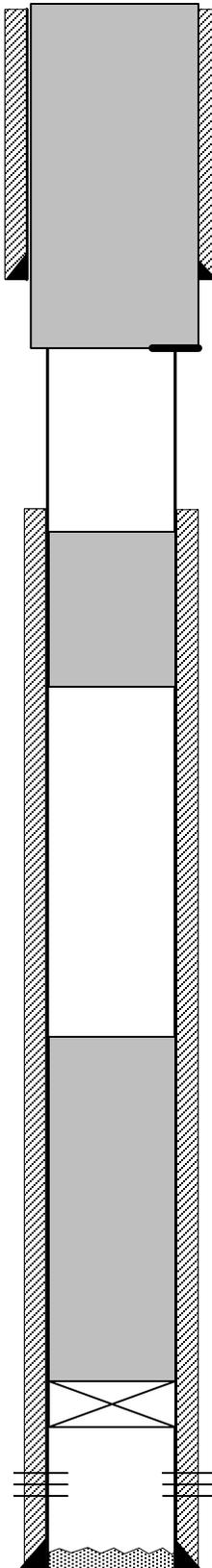
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Prod Csg: 3-1/2" 9.3#  
Setting Depth: 3795'

Cement  
50 sx 'regular' cement  
TOC TBD from CBL

Plug 3 (Surface shoe plug) – Perf 290'  
Attempt to establish circulation –  
pump/circ cmt to surface ~61 sx cmt –  
if no circ, ~13 sx cmt to cap

Plug 2 (Nacimiento) – Balance plug 7 sx  
cmt 1445'-1295'

Plug 1 (PC Perfs/Fruitland/Kirtland/Ojo  
Alamo) – CIBP Set @ 3670' with 18 sx  
cmt on top (TOC ~3259')



Perforations PC  
3720'-3738' – 1 spf  
Frac 35kgal gelled water 35klbs  
20/40 sand

PBTD: 3750'

**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), 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.

**BLM FLUID MINERALS  
P&A Geologic Report**

**Date Completed:** 02/23/2024

Well No. Jicarilla 98 8 (US Well No. 30-039-20162)	Location	PB 47			
Lease No. JIC98		T26N			R03W
Operator Morningstar Operating LLC	County	Rio Arriba	State		New Mexico
Total Depth 3800' (TD)	3750' (PB)	Formation	Pictured Cliffs		
Elevation (GL) 7030'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm					Surface/freshwater sands
Nacimiento Fm	1395				Possible freshwater sands
Ojo Alamo Ss	3309				Aquifer (possible freshwater)
Kirtland Shale	3426				
Fruitland Fm	3499				Coal/Gas/Possible water
Pictured Cliffs Ss	3699				Gas
Lewis Shale					
Chacra					Gas
Cliff House Ss					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos Shale					
Gallup					O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss					O&G/Water

Remarks:

Limited raster logs. Reference wells supports the formation tops estimated by the operator.

Reference Wells:

Apache #1E  
US Well No. 30-039-22689  
T 26N, R 3W  
Rio Arriba County, NM

Apache #4  
US Well No. 30-039-20243  
T 26N, R 3W  
Rio Arriba County, NM

Prepared by: Kenneth Rennick

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

AFMSS 2 Sundry ID 2775900

Attachment to notice of Intention to Abandon

Well: Jicarilla 98 8

**CONDITIONS OF APPROVAL**

1. Plugging work must be completed by December 31, 2024.
2. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal and Indian Lease."
3. 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 02/23/2024

**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 317101

**CONDITIONS**

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 317101
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
mkuehling	approve for record only	2/28/2024