

Well Name: JICARILLA 126 S	Well Location: T24N / R4W / SEC 2 / NENE /	County or Parish/State: RIO ARRIBA / NM
Well Number: 4	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC126	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390565200S1	Well Status: Producing Gas Well	Operator: SOUTHLAND ROYALTY COMPANY

Notice of Intent

Sundry ID: 2667999

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 04/21/2022

Time Sundry Submitted: 10:15

Date proposed operation will begin: 05/10/2022

Procedure Description: MorningStar requests approval to plug and abandon the Jicarilla 126S #4. Attached are the Proposed Procedure, WBDs, Noxious Weed Form, and Reclamation Plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

NOI_PA_Procedure__WBDs__Noxious_Weed_Form__Reclamation_Plan_20220421101028.pdf

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Operator: SOUTHLAND ROYALTY COMPANY

Conditions of Approval

Additional Reviews

General_Requirement_PxA_20220426162015.pdf

2667999_NOIA_126_S_4_3003905652_KR_04262022_20220426162000.pdf

24N04W02AKpc_Jicarilla_126_S_4_20220426091323.pdf

Operator Certification

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 submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: CONNIE BLAYLOCK

Signed on: APR 21, 2022 10:10 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

Representative Name: Amy Byars

Street Address:

City:

State:

Zip:

Phone:

Email address: abyars@mpartners.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: 04/26/2022

Signature: Kenneth Rennick

**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), 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 2667999

Attachment to notice of Intention to Abandon

Well: Jicarilla 126 S 4

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. The following modifications to your plugging program are to be made:
 - a) Bring the top of Plug #1 up to 3215', or combine Plug #1 and Plug #2, to cover BLM pick for the Fruitland formation top (3265').
 - b) Add a plug at 1525' to cover the Nacimiento formation top.
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 4/26/2022

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

Date Completed: 04/26/2022

Well No. Jicarilla 126 S #4 (API# 30-039-05652)	Location	1150	FNL	&	1120	FEL
Lease No. JIC126	Sec. 02	T24N			R04W	
Operator Southland Royalty Company/MorningStar Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 3583'	PBTD 3580'	Formation Pictured Cliffs				
Elevation (GL) 7213'		Elevation (KB) 7223'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1525	Surface/possible freshwater sands
Nacimiento Fm			1525	2946	Possible freshwater sands
Ojo Alamo Ss			2946	3138	Aquifer (possible freshwater)
Kirtland Shale			3138	3265	
Fruitland Fm			3265	3428	Coal/Gas/Possible water
Pictured Cliffs Ss			3428	3528	Gas
Lewis Shale			3528	PBTD	
Chacra					
Cliff House Ss					
Menefee Fm					
Point Lookout Ss					
Mancos Shale					
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					
Morrison Formation					

Remarks:

P & A

- BLM formation top picks for the Fruitland and Nacimiento vary from Operator.
- Bring the top of Plug #1 up to 3215', or combine Plug #1 and Plug #2, to cover BLM pick for the Fruitland formation top (3265').
- Add a plug at 1525' to cover the Nacimiento formation top.
- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perms 3440' – 3520'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

PROPOSED P&A PROCEDURE

Jicarilla 126 S 4

1. MIRU.
2. POOH w/ tubing.
3. Run a casing scraper to 3,425'
4. Set CICR @ 3,400'
5. Spot 19 sx Class B Cement on top of plug. (est'd TOC @ 3,165'). WOC, test casing integrity.
6. RU and run CBL.
7. Circulate hole with mud laden fluid.
8. Spot cement plug from 3,188' – 2,846' with 28 sx Class B cement.
9. Perforate at 1,575', if injection set CICR @ 1,525', then place balanced cement plug from 1,575' – 1,475' plus 100% excess with a total of 40 sx Class B cement.
10. Perforate at 191', circulate balanced cement plug from 191' to surface with 47 sx Class B cement. Ensure cement at surface on all strings of casing, top off as needed.
11. Cut off wellhead below surface casing flange. Install P&A marker.

MorningStar Operating, LLC

Prepared by: J. Marschall
Updated by: JRyza
Date: 04/20/2022

KB = 10'
GL = 7,213'
API# 30-039-05652

Spud Date: 01/24/1957
Date Completed: 02/12/1957

Nacimiento – 1,525'
Ojo Alamo – 2,946'
Kirtland – 3,138'
Fruitland – 3,265'
Picture Cliffs – 3,428'
CBL – Not yet

Jicarilla 126 S 4 Rio Arriba County, NM

All depths include KB
TD – 3,583'

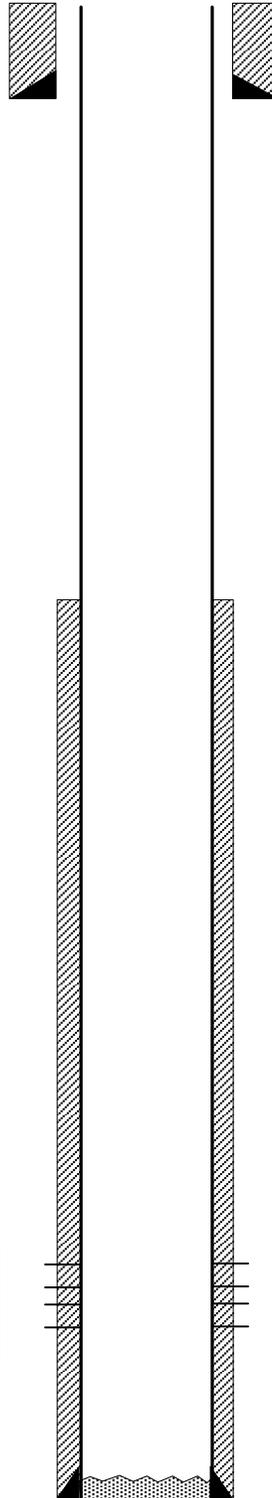
Surface Csg: 4 jts 7-5/8" 24# 8rd
Setting Depth: 141'

Cement
125 sx Cement
Cmt circulated

Production Hole: 6-3/4"
Production Csg: 162 jts 4-1/2" 9.5# 8rd
Setting Depth: 3,583'

Cement:
150 sx cement
TOC unknown

Current WBD



108 jts of 1-1/4" tubing set at 3,472'
(Removed 1 jt 12/2017)

Picture Cliffs Perfs (1957):
3,440'–3,478',
3,488'–3,520'

PBTD: 3,580'

MorningStar Operating, LLC

Prepared by: J. Marschall
Updated by: JRyza
Date: 04/20/2022

KB = 10'
GL = 7,213'
API# 30-039-05652

Spud Date: 01/24/1957
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Jicarilla 126 S 4
Rio Arriba County, NM

All depths include KB
TD - 3,583'

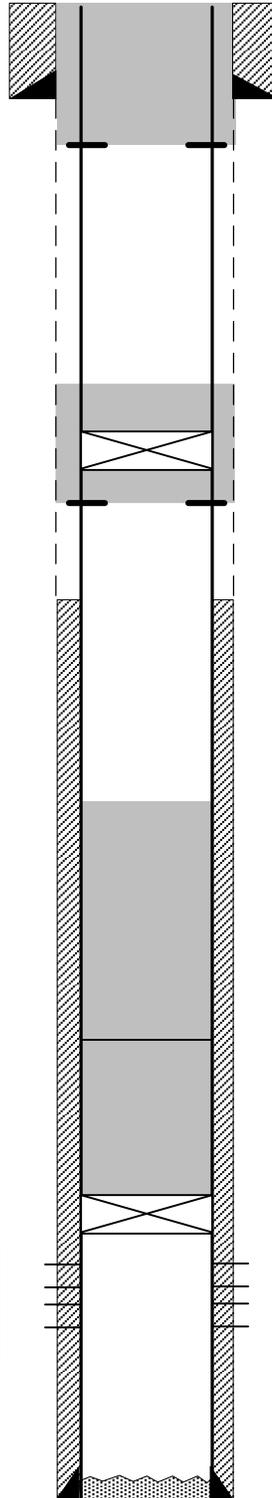
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Cmt circulated

Production Hole: 6-3/4"
Production Csg: 162 jts 4-1/2" 9.5# 8rd
Setting Depth: 3,583'

Cement:
150 sx cement
TOC unknown

Proposed P&A



PLUG 4
Perf 4-1/2" casing at 191'
Circulate 47 sx cmt 191' - surface

Nacimiento - 1,525'
Ojo Alamo - 2,946'
Kirtland - 3,138'
Fruitland - 3,265'
Picture Cliffs - 3,428'
CBL - Not yet

PLUG 3 (inside/outside)
Perf 4-1/2" casing at 1,575'
Outside 24 sx cmt, 1,475' - 1,575' (100% excess)
Inside 16 sx cmt, 1,475' - 1,575' (100% excess)

PLUG 2 (combine Ojo Alamo, Kirtland)
28 sx cement 2,846' - 3,188'

PLUG 1
19 sx cement 3,165' - 3,400'
CICR set @ 3,400'

Picture Cliffs Perfs (1957):
3,440'-3,478',
3,488'-3,520'

PBTD: 3,580'

P&A RECLAMATION PLAN

**Jicarilla 126 S #4
T24N R4W SEC. 2
36.3441°, -107.2311°
API: 30-039-05652**

General Notes:

- MorningStar Operating LLC will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- MorningStar Operating LLC will notify the BLM, Jicarilla Oil and Gas and BIA at least 48 hours prior to commencing reclamation earthwork.
- MorningStar Operating LLC will notify the BLM, Jicarilla Oil and Gas and BIA at least 48 hours prior to commencing with seeding application.
- Underground production piping on the well site will be removed.
- Disturbance will be limited to the well site footprint and access road boundaries.
- Surface equipment and trash will be removed.
- The P&A marker will be permanent and comply with Tribal regulations. Marker will be a plate installed at ground level.

Well Site Reclamation:

- Mature healthy vegetation on the site perimeter will be left to the extent practical.
- Edges on the South and SW side of location will be brought in to reclaim the site to near original and natural topography as is practical.
- Natural drainage patterns will be established when possible and practical
- The well pad and surrounding area are flat and consists of clay loam soil.
- All disturbed areas will be seeded in accordance with the FFO Bare Soil Reclamation Procedure C.
- The pad will be ripped, scarified, or disked to a depth adequate for establishing a suitable root zone.
- Prior to seeding, the disturbed areas will be left with a rough surface to facilitate moisture and seed retention.
- Following seeding, dead trees along the perimeter of location will be distributed within reclaimed surface area.
- Enterprise meter facilities will be removed.

Access Road Reclamation:

- The location access road will be recontoured and seeded. Grade dips or silt traps will be utilized to handle runoff where applicable.
- Rocks will be utilized as a barrier to prevent access to reclaimed road and location.

Revegetation:

The planned initial seed mixture and application rates for the Jicarilla Mesa Mix identified during the site visit will be as follows. The seed application rates may be adjusted according to various methods of application.

Species	LBS/ACRE*	Total #
Sandberg Bluegrass	2.0	2.0
Indian Rice Grass Rimrock	2.0	2.0
Lewis Flax	.5	.5
Small Burnet	1.0	1.0
UT Sweet Vetch	.25	.25
Antelope Bitterbrush	2.0	2.0
Sand Drop Seed	.5	.5
Mountain Mahogany	2.0	2.0
Side Oats Gramma	3.3	3.3
Blue Gramma	3.3	3.3
Galleta	3.3	3.3
	Total	20.15

- Seeding will be broadcast so the rates will be doubled and a rake or harrow will be used to incorporate the seed into the soil.
- Seed mixtures will be certified weed-free and the seeding records (bag labels) or other official documentation will be available to the BLM and Jicarilla Agencies prior to seeding, upon request.
- Seeding will occur as soon as reasonably possible following completion of earthwork activities and timed for successful germination.
- After completion of seeding, site will be mulched and crimped.
- The need for soil amendments is not expected or proposed.

Weed Management:

- MorningStar Operating's objective is to implement an integrated weed management program to control weed populations and establish desirable vegetation.
- No noxious weeds were noted during the onsite visit.
- If needed, weed management and control will be performed in an environmental conscious manner by a properly licensed contractor and within compliance of federal and state laws and regulations.

Monitoring:

- MorningStar Operating LLC will submit a Sundry Notice informing the BLM and Jicarilla Agencies the earthwork and seeding are completed.
- After establishment of adequate vegetation, MorningStar Operating LLC will coordinate with the BLM, Jicarilla Oil and Gas and BIA to evaluate the site. This information will be submitted with a Sundry Notice (FAN) requesting approval of the reclaimed location.

Attachments:

- Noxious Weed Form

Onsite Noxious Weed Form

If noxious weeds are found during the onsite, fill out form and submit to FFO weed coordinator

Operator MorningStar Operating LLC_Surveyor(s) Roger Herrera

Well Name and Number Jicarilla 126 S #4 Date 4/13/2022

Location: Township, Range, Section T 24N R 4W Sec 2

Location of Project NAD 83 Decimal Degrees Lat: 36.3441 Long: -107.2311

Class A Noxious Weed - Check Box if Found

	Alfombrilla		Diffuse knapweed		Hydrilla		Purple starthistle		Yellow toadflax.
	Black henbane		Dyer's woad		Leafy spurge		Ravenna grass		
	Camelthorn		Eurasian watermilfoil		Oxeye daise		Scotch thistle		
	Canada thistle		Giant salvinia		Parrotfeather		Spotted knapweed		
	Dalmatian toadflax		Hoary cress		Purple loosestrife		Yellow starthistle		

Class B Noxious Weed-Check Box if Found

	African rue		Perennial oenurweed		Russian knapweed		Tree of heaven
	Chicory		Musk thistle		Poison hemlock		
	Halogeton		Malta starthistle		Teasel		

Comments:

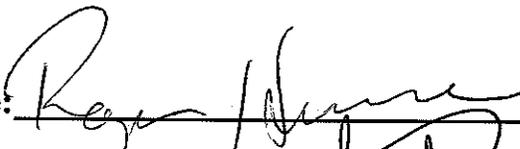
No noxious weeds were observed.

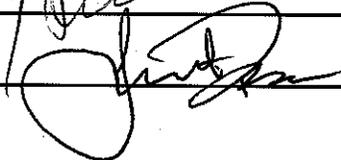
FFO Representative:

sign and date

Operator Representative

sign and date




4/13/22

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 102082

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 102082
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	4/29/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	4/29/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	4/29/2022