U.S. Department of the Interior BUREAU OF LAND MANAGEMENT		Sundry Print Repo
Well Name: JICARILLA 98	Well Location: T26N / R3W / SEC 18 / NWNE /	<b>County or Parish/State:</b> RIO ARRIBA / NM
Well Number: 11	<b>Type of Well:</b> CONVENTIONAL GAS WELL	Allottee or Tribe Name: JICARILLA APACHE
Lease Number: JIC98	Unit or CA Name:	Unit or CA Number:
US Well Number: 300392530700C2	Well Status: Producing Gas Well	<b>Operator:</b> SOUTHLAND ROYALTY COMPANY

#### **Notice of Intent**

Sundry ID: 2669712

Type of Submission: Notice of Intent

Date Sundry Submitted: 05/03/2022

Date proposed operation will begin: 05/31/2022

Type of Action: Plug and Abandonment Time Sundry Submitted: 10:08

**Procedure Description:** MorningStar requests approval to plug and abandon the Jicarilla 98 #11. Attached are the Proposed Procedure, WBDs, Reclamation Plan, and Noxious Weed form.

**Surface Disturbance** 

Is any additional surface disturbance proposed?: No

**NOI Attachments** 

**Procedure Description** 

NOI\_PA\_Jicarilla\_98\_11\_All\_Docs\_20220503100647.pdf

County or Parish/State: Rice 2 of eived by OCD: 5/25/2022 2:04:42 PM Well Name: JICARILLA 98 Well Location: T26N / R3W / SEC 18 / NWNE / ARRIBA / NM Well Number: 11 Type of Well: CONVENTIONAL GAS Allottee or Tribe Name: WELL JICARILLA APACHE Unit or CA Name: Lease Number: JIC98 Unit or CA Number: US Well Number: 300392530700C2 Well Status: Producing Gas Well **Operator: SOUTHLAND** ROYALTY COMPANY **Conditions of Approval** Additional

General\_Requirement\_PxA\_20220509125542.pdf

2669712\_NOIA\_98\_11\_3003925307\_KR\_05092022\_20220509125517.pdf

26N03W18BKmv\_Jicarilla\_98\_11\_20220509095332.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** 

Name: SOUTHLAND ROYALTY COMPANY

Title: Regulatory Technician

Street Address: 400 W 7th St.

City: Forth Worth

State: TX

State:

Phone: (817) 334-7882

Email address: CBLAYLOCK@MSPARTNERS.COM

#### **Field**

Representative Name: Amy Byars

**Street Address:** 

City:

Phone:

Email address: abyars@mspartners.com

#### **BLM Point of Contact**

BLM POC Name: KENNETH G RENNICK

BLM POC Phone: 5055647742

**Disposition:** Approved

Signature: Kenneth Rennick

Signed on: MAY 03, 2022 10:07 AM

BLM POC Title: Petroleum Engineer

Zip:

BLM POC Email Address: krennick@blm.gov

Disposition Date: 05/09/2022

#### 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 <u>minimum general</u> 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.

Page 1

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 <u>date</u> 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 2669712

Attachment to notice of Intention to Abandon

Well: Jicarilla 98 11

**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.
- 3. The following modifications to your plugging program are to be made:
  - a. Add a plug to cover the Mancos formation top at 6391'.

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 5/9/2022

#### John Ryza

From:	Rennick, Kenneth G <krennick@blm.gov></krennick@blm.gov>
Sent:	Tuesday, May 24, 2022 3:55 PM
То:	John Ryza; Connie Blaylock
Subject:	EXTERNAL:Re: [EXTERNAL] Jicarilla 98 #11 - P&A sundry question

Hello John,

Please pardon me, that was a plugged I should have removed from the geologists report.

Your proposal of removing the Mancos plug requirement is appropriate. Just have this email conversation on location when work is being completed. The BLM inspector may ask why the Mancos plug was removed.

And if convenient, please attached this email conversation with the subsequent report of work completed.

Let me know if you need additional clarifications.

Kenny

Kenneth (Kenny) Rennick

**Petroleum Engineer** 

Bureau of Land Management Farmington Field Office 6251 College Blvd Farmington, NM 87402

Email: <u>krennick@blm.gov</u> Mobile & Text: 505.497.0019

From: John Ryza <JRyza@mspartners.com>
Sent: Tuesday, May 24, 2022 2:37 PM
To: Rennick, Kenneth G <krennick@blm.gov>; Connie Blaylock <cblaylock@mspartners.com>
Subject: [EXTERNAL] Jicarilla 98 #11 - P&A sundry question

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Kenneth,

We received the attached approved P&A sundry from you, but I did have questions/concerns regarding the plug addition that was requested. The plug I am referring to is the addition of the Mancos plug @ 6,391'.

-This plug is down below all the perforations in the well (WBDs in attached "All Docs" file), and the Mancos formation is isolated with casing & cement in this portion of the well.

-Part of my concern with this plug is working down below all the perfs and some risk with having all the open perfs above you. Additionally concerns with stuff possibly sticking or becoming planted in this part of the well.

-My other issue identified is that the requested plug depth is only ~38' above the PBTD of the well. So this would not allow us to set the plug 50' below stated depth.

Initially, I would like to request consideration of removing this Mancos plug from the plugging program if possible. This would be based on that the Mancos formation is already adequately isolated by the cement and casing in this portion of the well. I would also request this change based on some of the inherent risk in working of this portion of the well, and not wanting to jeopardize any of the other plug placements.

Please let me know what other info you may need from me. I can also give you a call at time and date that works with your schedule to discuss. Thank you for your time in reviewing my question.

Thank you,

John Ryza Operations Engineer | MorningStar Partners, L.P. 400 West 7<sup>th</sup> Street | Fort Worth, Texas 76102 817-334-7842 o | 979-492-9245 c jryza@mspartners.com

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

#### **Date Completed:** 05/09/2022

Well No. Jicarilla 98 #11 (API# 30	Location	1165	FNL	&	1450	FEL	
Lease No. JIC98		Sec. 18	T26N			R03W	
Operator MorningStar Operating, LLC		County	Rio A	Rio Arriba St		New Mexico	
Total Depth 6474'	Formation	Mesaver	de, Picture	ed Cliffs			
Elevation (GL) 7078'	Elevation (KE	3) 7091'					

<b>Geologic Formations</b>	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm	Surface	1435			Surface/freshwater sands
Nacimiento Fm	1435	3349			Possible freshwater sands
Ojo Alamo Ss	3349	3466			Aquifer (possible freshwater)
Kirtland Shale	3466	3539			
Fruitland Fm	3539	3739			Coal/Gas/Water
Pictured Cliffs Ss	3739	3813			Gas
Lewis Shale	3813	4699			
Chacra	4699	5432			Possible Gas
Cliff House Ss	5432	5514			Water/Possible gas
Menefee Fm	5514	5899			Coal/Ss/Water/O&G
Point Lookout Ss	5899	6391			Probable water/O&G
Mancos Shale	6391	PBTD			Probable O&G
Gallup					
Greenhorn					
Graneros Shale					
Dakota Ss					

Remarks:

P & A

- No well log available, Operator submitted formation tops are acceptable based on Reference Well #1.
- Add a plug to cover the Mancos formation top at 6391'.
- The plugs proposed in the P&A procedure will adequately protect any freshwater sands in this well bore.
- Pictured Cliffs perfs 3749' 4792'.
- Mesaverde perfs 5704' 6267'.

#### Reference Well:

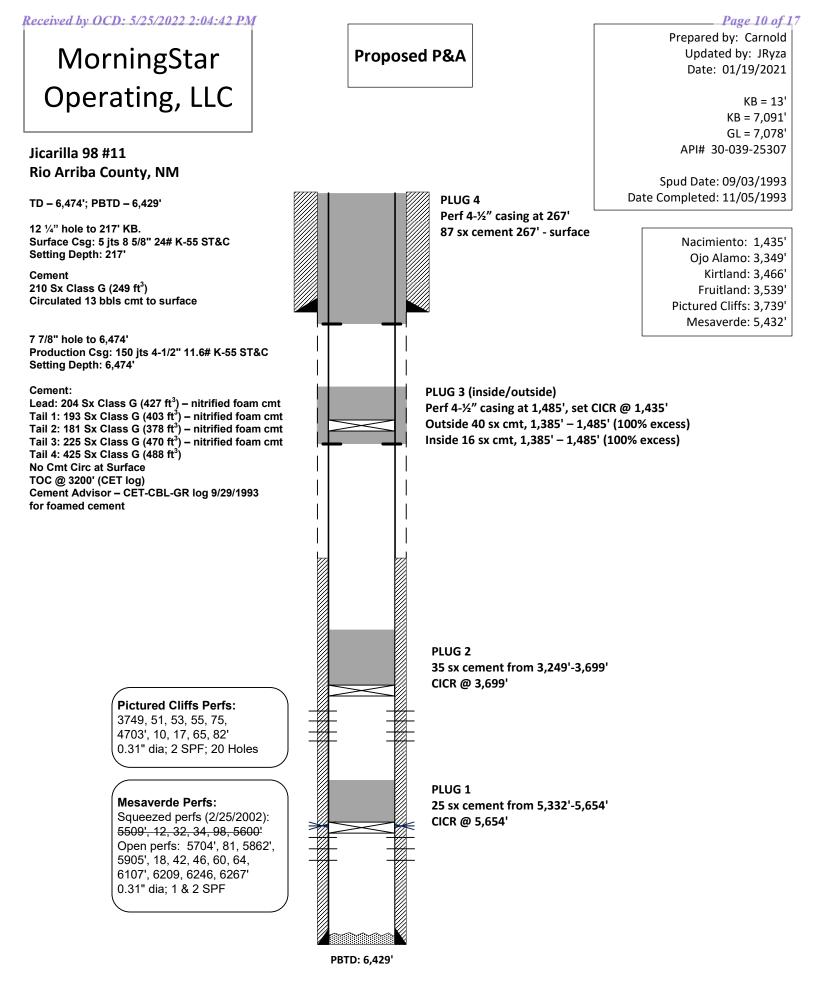
1) **Formation Tops** Hilcorp Energy Company Apache #1E 810' FNL, 820' FEL Sec. 18, T26N, R03W 7152' KB

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### PROPOSED P&A PROCEDURE

#### Jicarilla 98-11

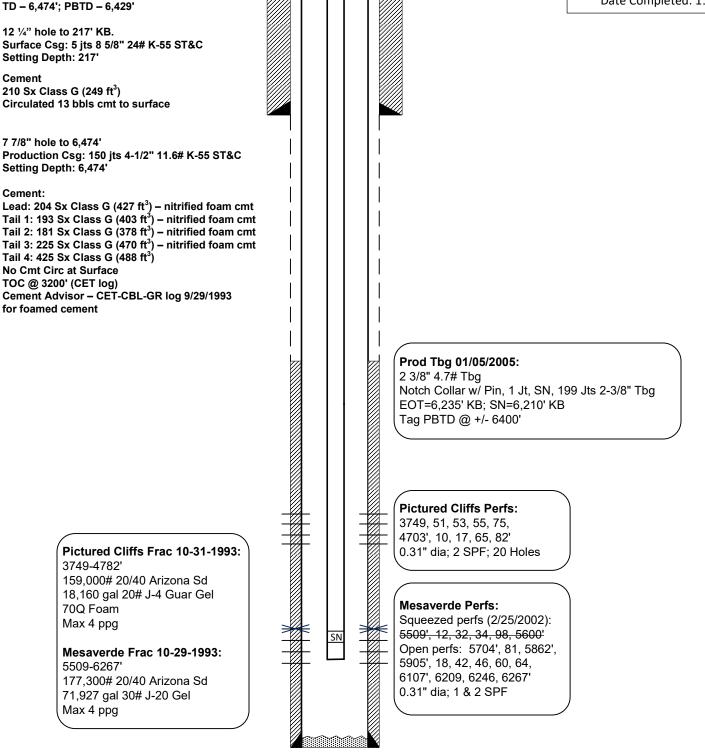
- 1. MIRU.
- 2. POOH w/ tubing.
- 3. Run a casing scraper to 5,680'
- 4. Set CICR @ 5,654'.
- 5. RU and run CBL.
- 6. Spot 25 sx Class B Cement on top of CICR. (est'd TOC @ 5,332').
- 7. Set CICR @ 3,699'.
- 8. Spot 35 sx Class B Cement on top of CICR. (est'd TOC @ 3,249'). WOC, test casing integrity.
- 9. Circulate hole with mud laden fluid.
- 10. Perforate at 1,485', set CICR @ 1435', place balanced cement plug from 1,485' 1,385' plus 100% excess with a total of 56 sx Class B cement.
- 11. Perforate at 267', spot balanced cement plug from 267' to surface with 87 sx Class B cement. Ensure cement at surface on all strings of casing, top off as needed.
- 12. Cut off wellhead below surface casing flange. Install P&A marker.



Received by OCD: 5/25/2022 2:04:42 PM

# MorningStar Operating, LLC

#### Jicarilla 98 #11 Rio Arriba County, NM



PBTD: 6,429'

#### Page 11 of 17

Prepared by: Carnold Updated by: JRyza Date: 01/19/2021

KB = 13' KB = 7,091' GL = 7,078' API# 30-039-25307

Spud Date: 09/03/1993 Date Completed: 11/05/1993

#### P&A RECLAMATION PLAN Jicarilla 98 #11 T26N R3W SEC. 18 36.48656°, -107.1781° API: 30-039-25307

## **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.
- Rig anchors found on site will be removed.
- Disturbance will be limited to the well site footprint and access road boundaries.
- Surface equipment and trash will be removed.
- Below grade pit will be closed in accordance with regulations.
- Culverts at the entrance of location will be removed.
- Concrete blocks on the SW side of location will be removed and placed downstream of wash crossing to mitigate erosion.
- Gravel will be utilized as fill in the cut slope.
- 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.
- Fill material on the location will be used to reclaim the site to near original and natural topography as is practical. A bulldozer/backhoe will be used to push/pull in the location edges to remove features to approximate the natural contours more closely.
- Natural drainage patterns will be established when possible and practical
- Silt traps will be utilized to mitigate erosion on the North, NE, and SW sides of the location.
- The well pad and surrounding area are rolling hills and consists of 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.
- A woven fence will be placed across the entrance of the reclaimed lease road adjacent to Hilcorp location to prevent future access to the reclaimed well site.

• Harvest 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.

#### **Revegetation:**

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The planned initial seed mixture and application rates for the <u>Jicarilla Mesa Mix</u> 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.
- Any fencing installed to assist with re-vegetation will be removed once there is an agreement from the BLM, Jicarilla Oil and Gas and BIA that adequate vegetation growth has been obtained.

#### 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)
 Recer Hercera

 Well Name and Number
 Jicarilla 98 #11
 Date 4/13/2022

 Location: Township, Range, Section
 T 26N R 3W Sec 18

 Location of Project NAD 83 Decimal Degrees
 Lat: 36.48656
 Long: -107.1781

Childs HT (United Weed Cheek Dox II Found								
Alfombrilla	Diffuse knapweed	Hydrilla	Purple starthistle	Yellow toadflax.				
Black henbane	Dyer's woad	Leafy spurge	Ravenna grass					
Camelthorm	Eurasian watermilfoil	Oxeye daise	Scotch thistle					
Canada thistle	Giant salvinia	Parrotfeather	Spotted knapweed					
Dalmatian toadfla.x	Hoary cress	Purple loosestrife	Yellow starthistle					

#### **Class A Noxious Weed - Check Box if Found**

#### **Class B Noxious Weed-Check Box if Found**

African rue	Perennial oeunerweed	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

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

COMMENTS

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	110551
	Action Type:
	[C-103] NOI Plug & Abandon (C-103F)

#### COMMENTS

Created By	Comment	Comment
		Date
kpickford	NMOCD recommends plugging the Mancos as noted on the BLM GEO report.	5/31/2022

COMMENTS

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Action 110551

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

Operator:	OGRID:
MorningStar Operating LLC	330132
400 W 7th St	Action Number:
Fort Worth, TX 76102	110551
	Action Type:
	[C-103] NOL Plug & Abandon (C-103E)

#### CONDITIONS

	-	
Created By	Condition	Condition Date
kpickford	CBL required	5/31/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	5/31/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	5/31/2022

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Action 110551