

<b>Well Name:</b> RAMENTA ET AL	<b>Well Location:</b> T27N / R9W / SEC 13 / NWSE / 36.571625 / -107.735367	<b>County or Parish/State:</b> SAN JUAN / NM
<b>Well Number:</b> 1	<b>Type of Well:</b> CONVENTIONAL GAS WELL	<b>Allottee or Tribe Name:</b> EASTERN NAVAJO
<b>Lease Number:</b> I149IND8466	<b>Unit or CA Name:</b>	<b>Unit or CA Number:</b>
<b>US Well Number:</b> 300450647100S1	<b>Well Status:</b> Producing Gas Well	<b>Operator:</b> SOUTHLAND ROYALTY COMPANY LLC

**Notice of Intent**

**Sundry ID:** 2664638

**Type of Submission:** Notice of Intent

**Type of Action:** Plug and Abandonment

**Date Sundry Submitted:** 03/30/2022

**Time Sundry Submitted:** 02:59

**Date proposed operation will begin:** 05/30/2022

**Procedure Description:** MorningStar requests approval to plug and abandon the Ramental Et Al #001. Attached are the Proposed Procedure, WBD, Reclamation Plan, and Noxious Weed form.

**Surface Disturbance**

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

**NOI Attachments**

**Procedure Description**

Proposed\_Procedure\_\_WBD\_\_Reclamation\_Plan\_\_Noxious\_Weed\_Form\_20220330145505.pdf

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**Operator:** SOUTHLAND ROYALTY COMPANY LLC

**Conditions of Approval**

**Specialist Review**

27N9W13\_Ramenta\_Et\_Al\_1\_KGR\_20220331124431.pdf

General\_Requirement\_PxA\_20220331124034.pdf

2664638\_NOIA\_1\_3004506471\_KR\_03312022\_20220331124003.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:** MAR 30, 2022 02:55 PM

**Name:** SOUTHLAND ROYALTY COMPANY LLC

**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@MSPARTNERS.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:** 03/31/2022

**Signature:** Kenneth Rennick

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

**Date Completed:** 03/31/2022

Well No. Ramenta et al 1 (API# 30-045-06471)	Location	1450	FSL	&	1450	FEL
Lease No. I149IND8466	Sec. 13	T27N			R9W	
Operator Morningstar Operating LLC	County	San Juan		State	New Mexico	
Total Depth 6665'	PBTD 6629'	Formation Dakota				
Elevation (GL) 5956'		Elevation (KB) 5968'				

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			1038		Aquifer (possible freshwater)
Kirtland Shale			1205		
Fruitland Fm			1558		Coal/Gas/Possible water
Pictured Cliffs Ss			1973		Gas
Lewis Shale					
Chacra			2880		Gas
Cliff House					Water/Possible gas
Menefee Fm					Coal/Ss/Water/Possible O&G
Point Lookout Ss					Probable water/Possible O&G
Mancos			4413		Water/Possible gas
Gallup			5440		O&G/Water
Greenhorn					
Graneros Shale					
Dakota Ss			6404		O&G/Water

Remarks:

P &amp; A

Reference Well:

- Dakota perforations 6336 – 6589'.
- Pump a volume of cement below the CICR at 6300' to completely isolate the Dakota perforations.
- After running the CBL, send data to the BLM ([krennick@blm.gov](mailto:krennick@blm.gov)). Plugs may be modified based on the results.

**Prepared by: 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 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), 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 2664638

Attachment to notice of Intention to Abandon

Well: Ramenta et al 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.
3. The following modifications to your plugging program are to be made:
  - a. Pump a volume of cement below the CICR at 6300' to completely isolate the Dakota perforations.
  - b. After running the CBL, send data to the BLM (krennick@blm.gov). Plugs may be modified based on the results.

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 3/31/2022

# MorningStar Operating, LLC

Prepared by: JRyza  
Date: 4/14/2021

KB = 12 ft  
GL = 5,956 ft  
API# 30-045-06471

**Ramenta Et Al #1**  
**San Juan County, NM**

Spud Date: 02/16/1965  
Well First Delivered: 03/10/1965  
Casing repair: 08/07/1994

TD – 6,665 ft MD, PBTD – 6629' MD

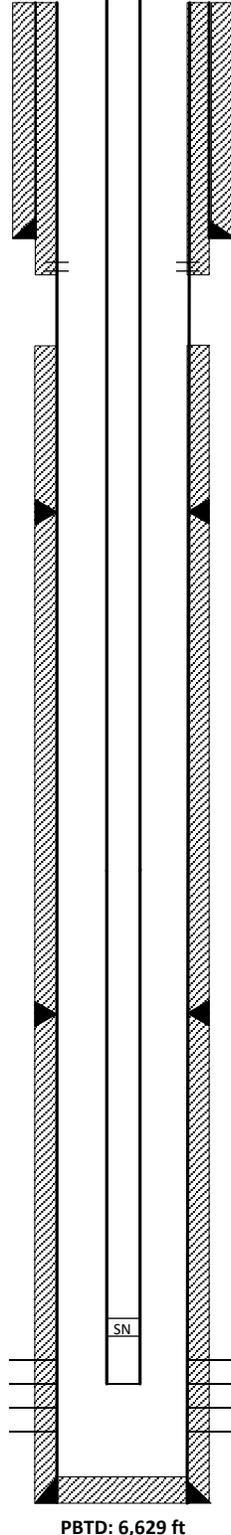
12 1/4" hole to 345'.  
Surface Csg: 8-5/8" 24# J-55  
Setting Depth: 345 ft kb

Cement  
250sx cement

7-7/8" hole to 6,665'  
Production Csg: 4-1/2" 10.5# J-55  
Setting Depth: 6,664 ft  
DV tool #1 @ 4499'  
DV tool #2 @ 2042'

Cement  
1<sup>st</sup> Stage: 356 sx cement  
2<sup>nd</sup> Stage: 120sx cement  
3<sup>rd</sup> Stage: 150 sx cement

Perfs 2spf: 6336' - 6348'  
6406' - 6445'  
6472' - 6499'  
6502' - 6509'  
6514' - 6522'  
6534' - 6550'  
6574' - 6589'



**Casing Repair (8/1994):**  
Casing leak @ 420-425'  
Circulate 209 sx Class B cmt  
Circulated 3 bbls cmt to surface

**Prod Tbg 11/23/2010:**  
2 3/8" 4.7# J-55 EUE tbg  
207 jts 2-3/8" tubing,  
SN, MA jt  
EOT=6,491' ; SN= 6,462'  
**NOTE:** 2010 Workover notes some of tubing string  
has turned down collars (scattered through out), will  
need 2-3/8" slip grip elevators to pull tbg

**Perforations (Dakota):**  
6,336 - 6,589' (overall)

PBTD: 6,629 ft

# MorningStar Operating, LLC

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San Juan County, NM**

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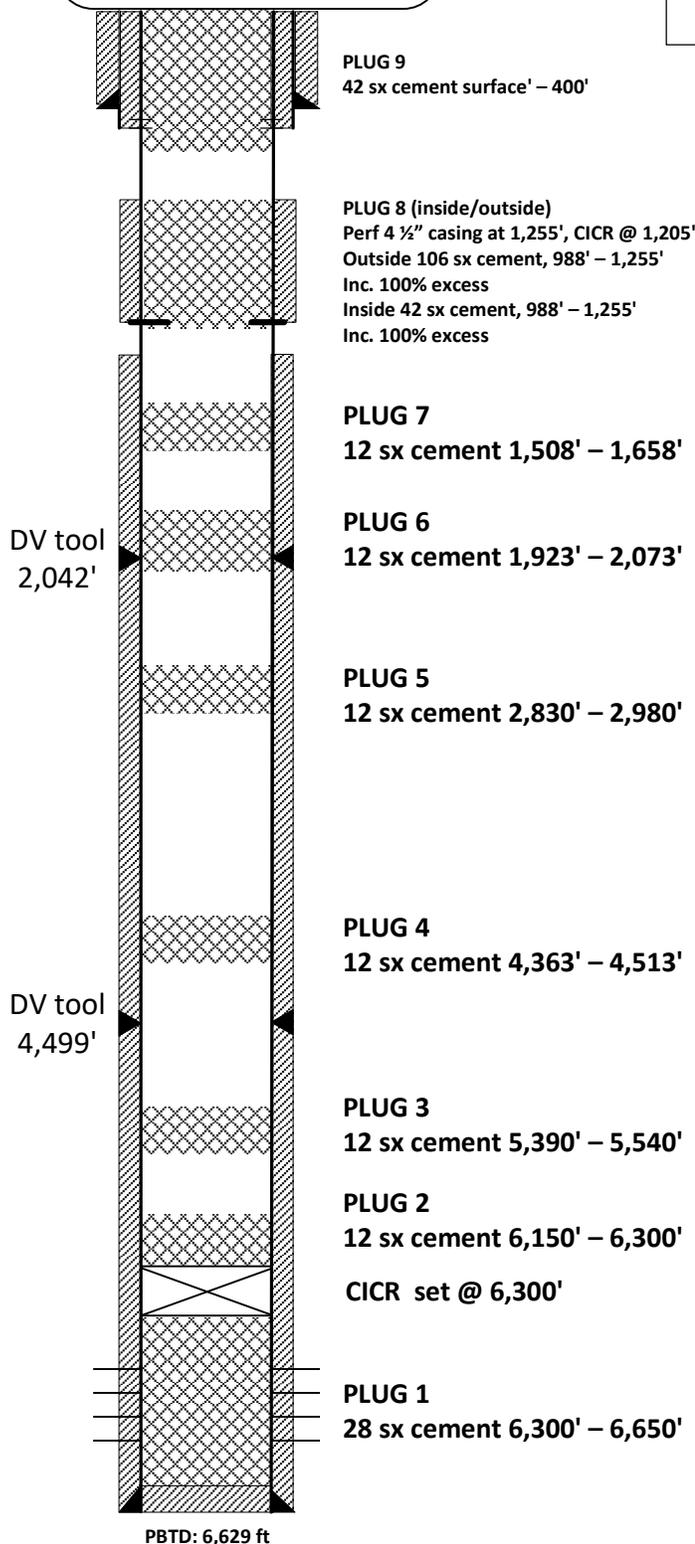
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6,336 - 6,589' (overall)

## Proposed P&A

**Casing Repair (8/1994):**  
Casing leak @ 420-425'  
Circulate 209 sx Class B cmt  
Circulated 3 bbls cmt to surface



Prepared by: J. Marschall  
Date: 11/10/2021  
Original by: JRyza

KB = 12 ft  
GL = 5,956 ft  
API# 30-045-06471

Spud Date: 02/16/1965  
Well First Delivered: 03/10/1965  
Casing repair: 08/07/1994

Nacimiento: Surface'  
Ojo Alamo: 1,038'  
Kirtland: 1,205'  
Fruitland: 1,558'  
Pictured Cliffs: 1,973'  
Charca: 2,880'  
Mancos: 4,413'  
Gallup: 5,440'  
Dakota: 6,404'  
CBL: Yes

## PROPOSED P&A PROCEDURE

### Ramenta Et Al #1

1. MIRU.
2. POOH w/ tubing.
3. Run a casing scraper to 6,325'
4. Set CICR @ 6,300'
5. Spot 28 sx below the CICR to cover the Dakota perforations from 6,650' – 6,300'.
5. Spot 12 sx Class B Cement on top of plug. (est'd TOC @ 6,300'). WOC, test casing integrity.
6. RU and run CBL.
7. Circulate hole with mud laden fluid.
8. Spot 3rd cement plug from 5,540' to 5,390' with 12 sx Class B cement.
9. Spot 4th cement plug from 4,513' to 4,363' with 12 sx Class B cement.
10. Spot 5th cement plug from 2,980' to 2,830' with 12 sx Class B cement.
11. Spot 6th cement plug from 2,073' to 1,923' with 12 sx Class B cement.
12. Spot 7th cement plug from 1,658' to 1,508' with 12 sx Class B cement.
13. Perforate at 1,255', set CICR at 1,205', spot balanced 8<sup>th</sup> cement plug from 1,255' – 988' plus 100% excess with a total of 148 sx Class B cement.
14. Spot 9<sup>th</sup> cement plug from 400' to surface with 42 sx Class B cement. Ensure cement at surface on all strings of casing, top off as needed.
15. Cut off wellhead below surface casing flange. Install P&A marker.

**P&A RECLAMATION PLAN**  
**Ramenta ET AL #1**  
**API: 30-045-06471**

**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 at least 48 hours prior to commencing reclamation earthwork.
- MorningStar Operating LLC will notify the BLM at least 48 hours prior to commencing with seeding application.
- Underground production piping on the well site will be removed.
- If present, all MorningStar Operating LLC power poles, risers, rectifiers, solar panels, and radio equipment will be removed. Cathodic groundbeds will be plugged and abandoned.
- 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, if any, will be removed.
- Gravel, if present, will be distributed on lease roads.
- The P&A marker will be permanent and comply with NMOCD regulations.

**Well Site Reclamation:**

- Mature healthy vegetation on the site perimeter will be left to the extent practical.
- Natural drainage patterns will be established when possible and practical
- The well pad and surrounding area are flat and consists of sandy loam.
- 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 fence will be placed across the entrances of the reclaimed location to prevent future access to the reclaimed well site.
- Enterprise meter facilities will be removed.

**Access Road Reclamation:**

- Location is directly adjacent to main lease road that is utilized by other operators to access their leases. No access road reclamation is necessary.

**Revegetation:**

The planned initial seed mixture and application rates for the Sagebrush/Grass Community identified during the site visit will be as follows. The seed application rates may be adjusted according to various methods of application.

Species	Select		Lbs/acre (PLS)*
Fourwing Saltbush	X	Pick two out of three	2.0
Antelope Bitterbrush			2.0
Winterfat	X		2.0
Indian Ricegrass	X	Pick three out of five	4.0
Blue Grama	X		2.0
Galleta			3.0
Sand Dropseed			0.5
Western Wheatgrass	X		4.0
Bottle Brush Squaretail	X	Pick one out of two	3.0
Siberian Wheatgrass			3.0
Small Burnet		Pick one out of three	2.0
Rocky Mountain Bee Plant			0.25
Blue Flax	X		0.25
TOTAL			17.25

\* Minimum if drill seeded. Double this rate if broadcast or hydroseeded.

- 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 prior to seeding, upon request.
- Seeding will occur as soon as reasonably possible following completion of earthwork activities and timed for successful germination.
- 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 the earthwork and seeding are completed.
- After establishment of adequate vegetation, MorningStar Operating LLC will coordinate with the BLM and take photos of 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 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) Laverna Jaquez

Well Name and Number Ramenta Et Al #1 Date 3/28/22

Location: Township, Range, Section T 27N R 09W Sec 13

Location of Project NAD 83 Decimal Degrees Lat: 36.57171 Long: -107.73536

### 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 daisy		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 oenotherweed		Russian knapweed		Tree of heaven
	Chicory		Musk thistle		Poison hemlock		
	Halogeton		Malta starthistle		Teasel		

**Comments:**

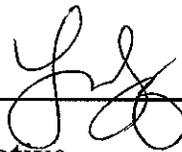
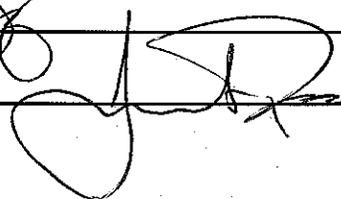
*No noxious weed were observed.*

**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**

CONDITIONS  
 Action 95989

**CONDITIONS**

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 95989
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

**CONDITIONS**

Created By	Condition	Condition Date
kpickford	CBL required	4/11/2022
kpickford	Add a plug 3605' to 3505' feet to cover the Mesaverde top at 3555'.	4/11/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	4/11/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	4/11/2022