

Well Name: LINDRITH UNIT NP	Well Location: T24N / R3W / SEC 3 / SWNW / 36.342109 / -107.149104	County or Parish/State: RIO ARRIBA / NM
Well Number: 4	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF078911	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390564700S1	Well Status: Producing Gas Well	Operator: MORNINGSTAR PARTNERS LP

Notice of Intent

Sundry ID: 2654179

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 01/26/2022	Time Sundry Submitted: 08:28
Date proposed operation will begin: 04/26/2022	

Procedure Description: MorningStar requests approval to P&A the Lindrith Unit NP #4. Attached are the Proposed Procedure, WBD, and Reclamation Plan.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

- Reclamation\_Plan\_\_\_Lindrith\_Unit\_NP\_4\_20220126082719.pdf
- Lindrith\_Unit\_NP\_4\_WBD\_Proposed\_PA\_20220126082710.pdf
- Lindrith\_Unit\_NP\_4\_P\_A\_Proposed\_Procedure\_20220126082319.pdf

Received by OCD: 2/9/2022 1:58:45 PM

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Conditions of Approval

Additional Reviews

2654179\_NOIA\_NP\_4\_3003905647\_KR\_02042022\_20220204104902.pdf

General\_Requirement\_PxA\_20220204104119.pdf

24N03W03EKpc\_Lindrith\_Unit\_NP\_4\_20220204100708.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: JAN 26, 2022 08:27 AM
Name: MORNINGSTAR PARTNERS LP	
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: 02/04/2022
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 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.

(October 2012 Revision)

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

AFMSS 2 Sundry ID 2654179

Attachment to notice of Intention to Abandon

Well: Lindrith Unit NP 2

**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 Kirtland formation top at 3248 feet.
  - b) Plug 2 (Ojo Alamo): Bring the top up to 2852 feet of the proposed plug to cover BLM formation top pick.
  - c) Plug 3 (Nacimiento): Bring the top up to 1485 feet inside/ outside of the proposed plug to cover BLM formation top pick.

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 2/4/2022

# BLM FLUID MINERALS P&A Geologic Report

**Date Completed:** 2/4/2022

Well No. Lindrith Unit NP #4 (API# 30-039-05647)	Location	1840	FNL	&	1160	FWL
Lease No. NMSF-078911	Sec. 03	T24N			R03W	
Operator MorningStar Operating, LLC	County	Rio Arriba		State	New Mexico	
Total Depth 3522'	PBTD n/a	Formation Pictured Cliffs				
Elevation (GL) 7189'		Elevation (KB) 7199'				

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1535	Surface/freshwater sands
Nacimiento Fm			1535	2902	Possible freshwater sands
Ojo Alamo Ss			2902	3248	Aquifer (possible freshwater)
Kirtland Shale			3248	3285	
Fruitland Fm			3285	3472	Coal/Gas/Possible water
Pictured Cliffs Ss			3472	PBTD	Gas
Lewis Shale					
Chacara					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:

P & A

- BLM picks for the Fruitland, Kirtland, Ojo Alamo and Nacimiento formation tops vary from Operator picks.
- Add a plug to cover the Kirtland formation top at 3248'.
- Bring the top of proposed Plug #2 (Ojo Alamo) up to 2852' to cover BLM formation top pick.
- Bring the top of proposed Plug #3 (Nacimiento) up to 1485' inside/outside to cover BLM formation top pick.
- The plugs proposed in the P&A procedure, with changes recommended above, will adequately protect any freshwater sands in this well bore.
- No perfs – open hole completion.

Reference Well:

1) **Formation Tops**  
Same

Prepared by: Chris Wenman

## PROPOSED P&A PROCEDURE

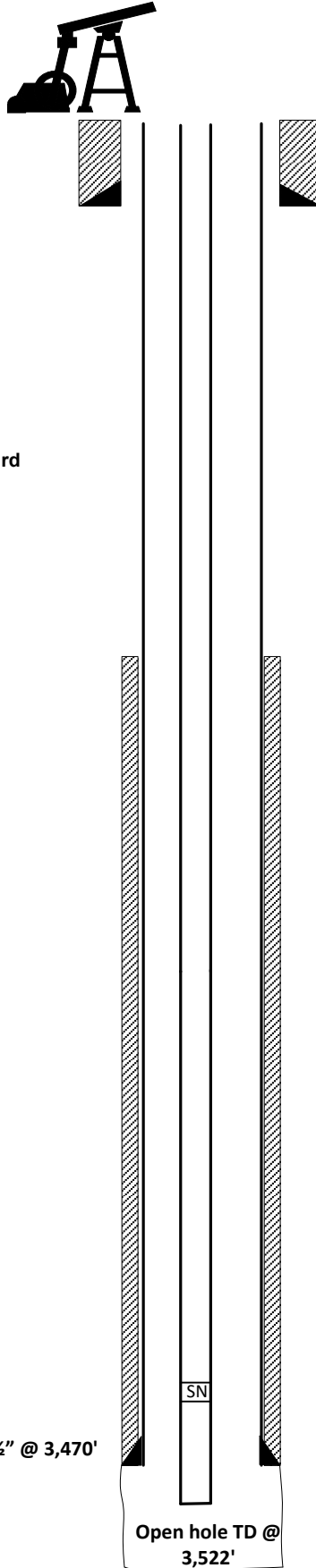
### Lindrith Unit NP 4

1. MIRU.
2. POOH w/ tubing.
3. Run a casing scraper to 3,425'
4. Spot cement plug
4. Set CICR @ 3,400'
5. Spot 45 sx Class B Cement on top of plug. (est'd TOC @ 3,114'). WOC, test casing integrity.
6. RU and run CBL.
7. Circulate hole with mud laden fluid.
8. Spot 2<sup>nd</sup> cement plug from 3,047' – 2,852' with 30 sx Class B cement.
9. Perforate at 1,602', spot balanced cement plug from 1,602' – 1,485' plus 100% excess with a total of 106 sx Class B cement.
10. Perforate at 183', spot balanced cement plug from 183' to surface with 105 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. P&A marker will be buried per land owner request.

**MorningStar  
Operating, LLC**

**Lindrith Unit NP 4  
Rio Arriba County, NM**

**Current WBD**



Prepared by: J. Marschall

Date: 11/09/2021

KB = 10'

GL = 7,189'

API# 30-039-05647

Spud Date: 07/17/1955

Date Completed: 08/08/1955

Nacimiento – 1,552'

Ojo Alamo – 2,947'

Fruitland – 3,164'

Kirtland (per BLM) – 3,248'

Picture Cliffs – 3,475'

CBL – Not yet

All depths include KB  
TD – 3,522'; PBTD – N/A

Surface Csg: 3 jts 9 5/8" 25.4# PE  
Setting Depth: 133'

Cement  
125 sx Cement  
Cmt circulated

Production Csg: 111 jts 5-1/2" 15.5# 8 rd  
Setting Depth: 3,470'

Cement:  
150 sx cement  
TOC unknown

166 jts of 1" tubing set  
at 3,502' on 8-9-55

5 1/2" @ 3,470'

No Perfs, open hole completion

Open hole TD @  
3,522'



**MorningStar  
Operating, LLC**

**Lindrith Unit NP 4  
Rio Arriba County, NM**

**Proposed P&A**

Prepared by: J. Marschall  
Date: 11/09/2021

KB = 10'  
GL = 7,189'  
API# 30-039-05647

Spud Date: 07/17/1955  
Date Completed: 08/08/1955

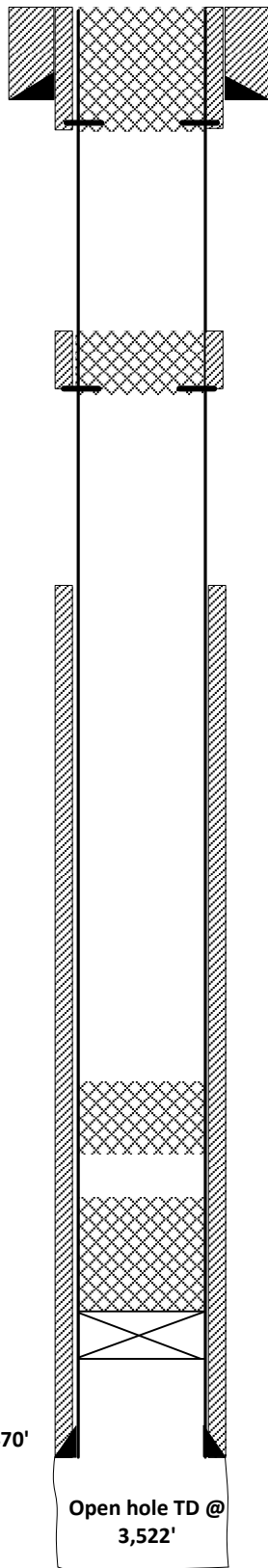
All depths include KB  
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Surface Csg: 3 jts 9 5/8" 25.4# PE  
Setting Depth: 133'

Cement  
125 sx Cement  
Cmt circulated

Production Csg: 111 jts 5-1/2" 15.5# 8 rd  
Setting Depth: 3,470'

Cement:  
150 sx cement  
TOC unknown



**PLUG 4 (inside/outside)**  
Perf 5 1/2" casing at 183'  
105 sx cement 183' - surface

**PLUG 3 (inside/outside)**  
Perf 5 1/2" casing at 1,602'  
Outside 69 sx cmt, 1,485' – 1,602' (incl 100% excess)  
Inside 37 sx cmt, 1,485' – 1,602' (incl 100% excess)

**PLUG 2 (Ojo Alamo)**  
30 sx cement 2,852 – 3,047'

**PLUG 1 (Fruitland/Kirtland)**  
45 sx cement 3,114' – 3,400'

**CICR set @ 3,400'**

No Perfs, open hole completion

166 jts of 1" tubing set  
at 3,502' on 8-9-55

5 1/2" @ 3,470'

Open hole TD @  
3,522'

Nacimiento – 1,552'  
Ojo Alamo – 2,947'  
Fruitland – 3,164'  
Kirtland (per BLM) – 3,248'  
Picture Cliffs – 3,475'  
CBL – Not yet

**P&A RECLAMATION PLAN**

**Lindrith Unit NP #4**

API: 30-039-05647

Unit: E Sec: 03 T24N R3W

1840 FNL & 1160 FWL

**General Notes:**

- MorningStar Operating LLC will comply with the requirements in accordance with the approved Sundry Notice associated with this submittal.
- Surface equipment and trash, if any, will be removed.
- The P&A marker will be permanent and comply with NMOCD regulations.
  - Per landowner request, the P&A marker will be buried in place as to not interfere with surface use activities. A subsequent C-102 will be filed separately to the NMOCD.

**Well Site Reclamation:**

- Per the landowner request, the well pad will be left as is and no reclamation or seeding will be conducted.

**Access Road Reclamation:**

- The associated access road will be left in place for landowner use.

**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 80331

CONDITIONS

Operator: MorningStar Operating LLC 400 W 7th St Fort Worth, TX 76102	OGRID: 330132
	Action Number: 80331
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	2/15/2022
kpickford	Adhere to BLM approved plugs and COAs. See GEO Report	2/15/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	2/15/2022