



U.S. Department of the Interior
BUREAU OF LAND MANAGEMENT

Sundry Print Report

12/20/2021

Well Name: LINDRITH	Well Location: T26N / R7W / SEC 3 / NESW / 36.512558 / -107.564926	County or Parish/State: RIO ARRIBA / NM
Well Number: 4-3 13	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMSF079161	Unit or CA Name:	Unit or CA Number:
US Well Number: 300390668400D1	Well Status: Producing Gas Well	Operator: EPIC ENERGY LLC

Notice of Intent

Sundry ID: 2634813

Type of Submission: Notice of Intent

Type of Action: Plug and Abandonment

Date Sundry Submitted: 09/17/2021

Time Sundry Submitted: 11:21

Date proposed operation will begin: 09/24/2021

Procedure Description: Please find attached P&A procedure & Reclamation

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Lindrith__013_P_A_Plan__20210917112032.pdf

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Conditions of Approval

Additional Reviews

General_Requirement_PxA_20211215115821.pdf
2634813_NOIA_1_3_3003906684_KR_12152021_20211215115808.pdf
26N07W03KKd_Lindrith_13_20211203131440.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: VANESSA FIELDS

Signed on: SEP 17, 2021 11:17 AM

Name: EPIC ENERGY LLC

Title: Regulatory Manager

Street Address: 7415 EAST MAIN STREET

City: FARMINGTON **State:** NM

Phone: (505) 327-4892

Email address: VANESSA@WALSHENG.NET

Field Representative

Representative Name: VANESSA FIELDS

Street Address: 332 RD 3100

City: Aztec **State:** NM

Zip: 87410

Phone: (150)578-7910

Email address: vanessa@walsheng.net

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

P&A Procedure**EPIC Energy – Lindrith #013**

API: 30-039-06684

1820' FSL & 1820' FWL, Section 3, T26N, R7W

Rio Arriba County, New Mexico

Plug & Abandonment Procedure:

Note: All cement volumes use 100% excess outside casing and 50' excess inside pipe. Stabilizing wellbore fluid will be 8.33 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class G neat 1.15 ft³/sk or equivalent. Cement calculations based on 5-1/2" 15.5# casing. Unknown TOC. If casing pressure tests tagging plugs will not be required.

P&A Procedure

1. MIRU PU and cement equipment
2. ND WH, NU BOP, RU rig floor and 2 3/8" handling tools
3. POOH 2 3/8" production string set at ~6579'.
4. **Plug #1, 6488' - 6638' (Dakota Top: 7195'; DK Perfs: 7104'-7326')**: Dakota previously permanently abandoned with CIBP @ 6638'. Tally and TIH to CIBP, mix & pump 18 sx (20.7 cf) of Class G cement (or equivalent). PU 200' above balanced plug and reverse circulate tubing clean.
5. TIH with 5 1/2" casing scraper to 6600'. POOH
6. **Plug #2, 6296' - 6542' (Gallup Top: 6396')**: TIH & set 5-1/2" CICR at 6542'. Roll hole with fresh water. Pressure test tubing to 500 psi. PU and pressure test casing to 500 psi. Sting into CICR Mix & pump 7 sx (8.05 cf) of Class G cement (or equivalent) to bottom of Gallup perfs. Sting out CICR mix and pump 29 sk (33.35 cf) of Class G (or equivalent) in balanced plug. PU 200' above TOC and reverse circulate tubing clean. Ensure hole is rolled for CBL. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.
7. TOOH and LD setting tool
8. MIRU WL and run CBL to determine TOC.
9. **Plug #3, 4990' – 5265' (Mancos Top: 5215', Mesaverde Top: 5090')**: Mix and spot 32 sx (36.8 cf) of Class G cement in a balanced plug. PU 200' above cement and reverse circulate to clean out tubing. Pressure test casing to 500 psi if previous test failed. WOC, TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.
10. **Plug #4, 3619' – 3769' (Chacra Top: 3719')**: Mix and spot 18 sx (20.7 cf) of Class G cement in a balanced plug. PU 200' above cement and reverse circulate to clean out tubing. Pressure test casing to 500 psi if previous test failed. WOC, TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.
11. **Plug #5, 2662' – 2812' (Pictured Cliffs Top: 2762')**: Mix and spot 18 sx (20.7 cf) of Class G cement in a balanced plug. PU 200' above cement and reverse circulate to clean out tubing. Pressure test casing to 500 psi if previous test failed. WOC, TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary.

12. **Plug #6, 2095' – 2392' (Fruitland Top: 2342', Ojo Alamo Top: 2252', Kirtland: 2195',):** Mix and spot 35 sx (40.5 cf) of Class G cement in a balanced plug. PU 200' above TOC and reverse circulate tubing clean. Pull up hole & WOC. TIH & tag cement to confirm TOC (not necessary if pressure test OK). Re-spot cement if necessary. Re-spot with 2% CC BWOC if necessary.
13. **Plug #7, 250'-surface' (9 5/8" surface shoe @ 212'):** RU WL and perforate 3 squeeze holes at 225'. Establish circulation out braidenhead valve. Mix and pump ~89 sks down 5 1/2" casing from 225' to surface. Top off 5 1/2" as necessary.
14. ND BOP and cut off wellhead below surface casing flange, top off casing and annulus as necessary. Install P&A marker and cut off and/or remove anchors. RD, MOL - Restore location per BLM stipulations.

Kyle T. Mason
Operations Engineer

Lindrith #013**Current Status****Basin Dakota****1820' FSL & 1820' FWL, Section 3, T26N, R7W, Rio Arriba County, NM****API: 30-039-06684**

Today's Date: 7/26/2021

Spud: 7/20/61

Completed: 8/14/61

Elevation: 6595' GL

Kirtland @ 2195'

Ojo Alamo @ 2252'

Fruitland @ 2342'

Pictured Cliffs @ 2762'

Lewis @ 2865'

DV Tool at 2950'

Chacra @ 3917'

Pt. Lookout @ 5090'

Mancos @ 5215'

Gallup @ 6396'

Greenhorn @ 6990'

Graneros @ 7050'

Dakota @ 7195'

Hole Size
7.875"

Hole Size: 13 3/4"

9-5/8", 32.75#, A-40 Casing set @ 212'
Cement with 150 sks, Good returns throughout

DV Tool at 2950'

20 joints 5-1/2" 17# & 5-1/2" 15.5# J55 casing set @ 7415' KB
1st Stg: 200 sks, 838 cf Diacel "D", 100 sks neat - Unknown TOC
2nd Stg: 386 cf - Unknown TOC

Tubing: 6579'

Gallup Perforations:
6592'-6598'

CIBP set 6,638' (set 09/04)

Dakota Perforations:
7104'-7116'
7196'-7210'
7222'-7229'
7244'-7270'
7320'-7326'PBSD: 6638'
TD: 7415'

Lindrith #013

Proposed

Basin Dakota

1820' FSL & 1820' FWL, Section 3, T26N, R7W, Rio Arriba County, NM

*WBD not drawn to scale

API: 30-039-06684

Today's Date: 8/3/2021
 Spud: 7/20/61
 Completed: 8/14/61

Elevation: 6595' GL

Kirtland @ 2195'
 Ojo Alamo @ 2252'
 Fruitland @ 2342'

Pictured Cliffs @ 2762'

Lewis @ 2865'

DV Tool at 2950'

Chacra @ 3719'

Pt. Lookout @ 5090'

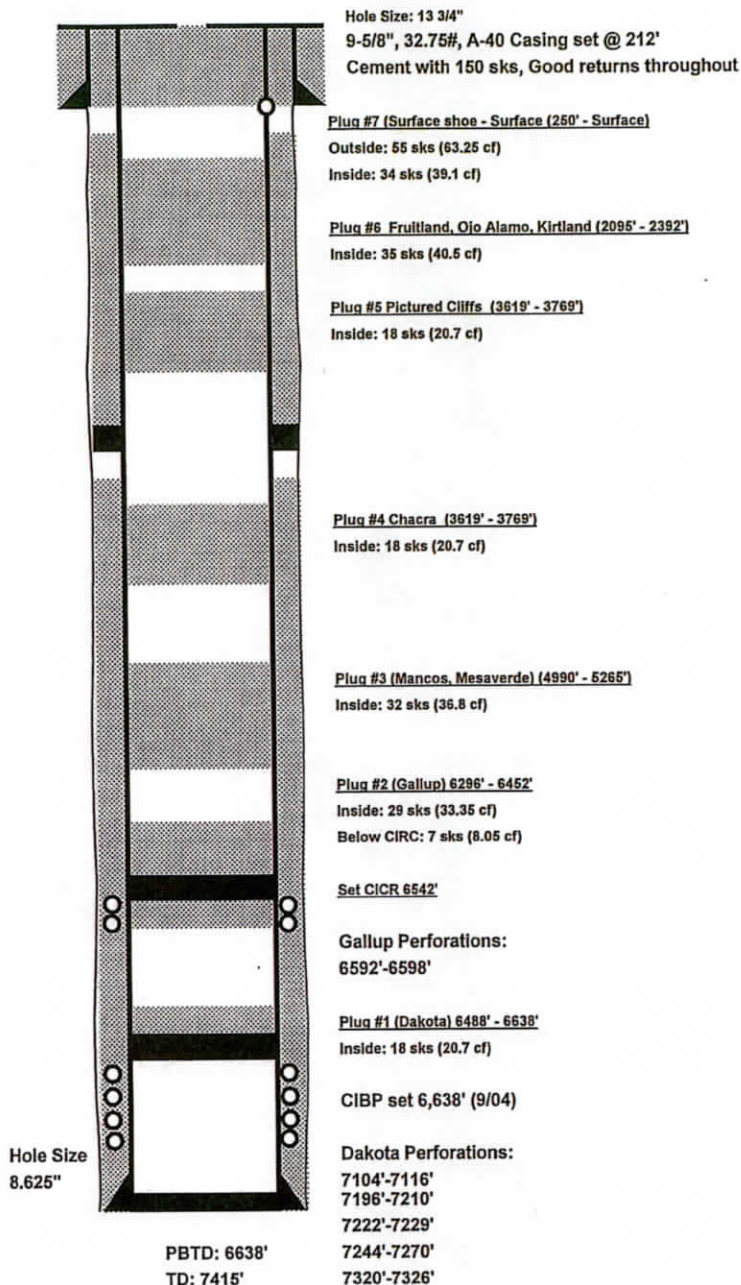
Mancos @ 5215'

Gallup @ 6396'

Greenhorn @ 6990'

Graneros @ 7050'

Dakota @ 7195'



**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.

(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 2634813

Attachment to notice of Intention to Abandon

Well: Lindrith 1-3

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 (505) 564-7750.
3. The following modifications to your plugging program are to be made:
 - a. Add a plug to cover the Cliff House (top of the Mesaverde) at 4475 feet.
 - b. Plug #4 (Chacra): Bring the top up to 3583 feet to cover BLM pick.
 - c. Plug #5 (Pictured Cliffs): Bring the bottom down to 2848 feet to cover BLM pick.
 - d. Plug #6 (Fruitland and Kirtland): Adjust to cover the interval from 2073 feet to 2418 feet or split into 2 plugs to cover BLM picks.
 - e. Add a plug to cover BLM pick for the top of the Ojo Alamo at 1985 feet.
 - f. Add a plug to cover BLM pick for the top of the Nacimiento at 1015 feet.
 - g. Plug #7 (Surface): Bring down to 262 feet to cover 50 feet below the bottom of the shoe.

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 12/15/2021

BLM FLUID MINERALS P&A Geologic Report

Date Completed: 12/3/2021

Well No. Lindrith #13 (API# 30-039-06684)			Location	1820	FSL	&	1820	FWL
Lease No. NMSF-079161			Sec. 03	T26N			R07W	
Operator Epic Energy, LLC			County	Rio Arriba		State	New Mexico	
Total Depth 7415'		PBTD 6638'	Formation Dakota					
Elevation (GL) 6583'			Elevation (KB) 6594'					

Geologic Formations	Est. Top	Est. Bottom	Log Top	Log Bottom	Remarks
San Jose Fm			Surface	1015	Surface/freshwater sands
Nacimiento Fm			1015	1985	Freshwater sands
Ojo Alamo Ss			1985	2173	Aquifer (freshwater)
Kirtland Shale			2173	2368	
Fruitland Fm			2368	2798	Coal/Gas/Possible water
Pictured Cliffs Ss			2798	2865	Gas
Lewis Shale			2865	3683	
Chacra			3683	4475	
Cliff House Ss			4475	4570	Water/Possible gas
Menefee Fm			4570	5090	Coal/Ss/Water/Possible O&G
Point Lookout Ss			5090	5215	Probable water/Possible O&G
Mancos Shale			5215	6396	
Gallup			6396	6990	O&G/Water
Greenhorn			6990	7050	
Graneros Shale			7050	7195	
Dakota Ss			7195	TD	O&G/Water

Remarks:

P & A

- No CBL on file.
- Add a plug to cover the Cliff House (top of the Mesaverde) at 4475'.
- Bring the top of Plug #4 (Chacra) up to 3583' to cover BLM pick.
- Bring the bottom of Plug #5 (Pictured Cliffs) down to 2848' to cover BLM pick.
- Adjust Plug #6 (Fruitland and Kirtland) to cover the interval from 2073' – 2418' or split into 2 plugs to cover BLM picks.
- Add a plug to cover BLM pick for the top of the Ojo Alamo at 1985'.
- Add a plug to cover BLM pick for the top of the Nacimiento at 1015'.
- Bring the bottom of Plug #7 (Surface) down to 262' to cover 50 feet below the bottom of the shoe.
- The plugs proposed in the P&A procedure, with changes as recommended above, will adequately protect any freshwater sands in this well bore.
- Dakota perms 7104' – 7326'. Gallup perms 6592' – 6598'.

Reference Well:

1) **Formation Tops**
Same

Prepared by: Chris Wenman

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 99198

CONDITIONS

Operator: EPIC ENERGY, L.L.C. 332 Road 3100 Aztec, NM 87410	OGRID: 372834
	Action Number: 99198
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kpickford	CBL required	4/19/2022
kpickford	Notify NMOCD 24 Hours Prior to beginning operations	4/19/2022
kpickford	Adhere to BLM approved COAs and plugs. See GEO report.	4/19/2022