

Replug By Other Operator

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404498590

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01/20/2026

WELL ABANDONMENT REPORT

This form is to be submitted as an Intent to Abandon whenever an abandonment is planned on a borehole. After the abandonment is complete, this form shall again be submitted as a Subsequent Report of the actual work completed. The approved intent shall be valid for six months after the approval date, after that period, a new intent will be required. Attachments required with the Intent to Abandon are wellbore diagrams of the current configuration and the proposed configuration with plugs set. A Subsequent Report of Abandonment shall indicate the actual work completed. Attachments required with a Subsequent Report are a wellbore diagram showing plugs that were set and casing remaining in the hole, the job summaries from all plugging contractors used, including wireline and cementing (third party verification) and any logs that may have been run during abandonment.

ECMC Operator Number: 10814 Contact Name: Richard Saadeh
 Name of Operator: MDS ENERGY DEVELOPMENT LLC Phone: (817) 718-0175
 Address: 409 BUTLER RD SUITE A Fax: _____
 City: KITTANNING State: PA Zip: 16201 Email: richard.saadeh@mdsed.com

For "Intent" 24 hour notice required, Name: Petrie, Erica Tel: (303) 726-3822
 ECMC contact: Email: erica.petrie@state.co.us

Type of Well Abandonment Report: Notice of Intent to Abandon Subsequent Report of Abandonment

API Number 05-123-08250-00
 Well Name: CASTOR Well Number: 2-27
 Location: QtrQtr: NWSW Section: 27 Township: 8N Range: 59W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: BUCKINGHAM Field Number: 7570

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.630927 Longitude: -103.970167
 GPS Data: GPS Quality Value: 1.3 Type of GPS Quality Value: PDOP Date of Measurement: 12/31/2025

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other Re-entry P&A offset to upcoming HZ development

Casing to be pulled: Yes No Estimated Depth: _____
 Fish in Hole: Yes No If yes, explain details below
 Wellbore has Uncemented Casing leaks: Yes No If yes, explain details below
 Details: _____

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth

Total: 0 zone(s)

Casing History

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J55	24	0	165	150	165	0	VISU
OPEN HOLE	7+7/8				165	6850				

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIBP #2: Depth _____ with _____ sacks cmt on top.
 CIBP #3: Depth _____ with _____ sacks cmt on top. CIBP #4: Depth _____ with _____ sacks cmt on top.
 CIBP #5: Depth _____ with _____ sacks cmt on top.

NOTE: Two(2) sacks cement required on all CIBPs.

Set	50	sks cmt from	6704	ft. to	6604	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input type="checkbox"/>
Set	100	sks cmt from	6018	ft. to	5768	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" type="checkbox"/>
Set	80	sks cmt from	2500	ft. to	2300	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input type="checkbox"/>
Set	80	sks cmt from	1575	ft. to	1375	ft.	Plug Type: OPEN HOLE	Plug Tagged: <input checked="" type="checkbox"/>
Set		sks cmt from		ft. to		ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth
Perforate and squeeze at	_____	ft. with	_____	sacks. Leave at least 100 ft. in casing	_____	CICR Depth

(Cast Iron Cement Retainer Depth)

Set 188 sacks half in. half out surface casing from 525 ft. to 0 ft. Plug Tagged:

Set _____ sacks at surface

Cut four feet below ground level, weld on plate Above Ground Dry-Hole Marker: Yes No

Set _____ sacks in rat hole Set _____ sacks in mouse hole

Additional Plugging Information for Subsequent Report Only

Casing Recovered: _____ ft. of _____ inch casing
 Surface Plug Setting Date: _____ Cut and Cap Date: _____ Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

*Note: A closed loop system will be utilized throughout plugging operations.

Castor #2-27 Re-Entry P&A Procedure

1. Survey and locate abandoned well. Mark with stake and record as-drilled GPS coordinates.
2. Excavate to expose top of surface casing. Cut welded plate off. Weld 8-5/8" slip collar, sufficient 8-5/8" casing to reach ground level, and 8-5/8" slip collar.
3. MIRU workover rig. NU wellhead and 5k BOP. Test BOP.
4. PU and RIH with 6-1/8" bit and 2-7/8" 6.5# L80 EUE workstring with 10 3-1/2" drill collars. Drill out surface cement plug and circulate hole clean.
5. Continue drilling or RIH to top of surface casing plug (~165'). Verify depth of surface casing plug by tagging. Pressure test surface casing to 250 psi. If surface casing fails pressure test, contact engineer.
6. After pressure test of surface casing, continue to drill out surface casing plug. If pressure is encountered below surface casing plug, circulate hole with mud or kill fluid until well is dead or blown down.
7. Continue drilling or RIH, cleaning out drilling mud or water to 6,704'. TOOH with bit and 2-7/8" workstring.
8. PU and RIH with mule shoe and 2-7/8" L80 tubing to 6,704'. RU cement crew, pressure test lines to 4,500 psi and pump open hole plug of 50 sx of 15.8 ppg Class G neat cement at 6,704'.
9. POOH to 6,018'. RU cement crew, pressure test lines and pump open hole plug of 100 sx of 15.8 ppg Class G neat cement at 6,018'.
10. POOH to surface casing and wait four hours. RIH and tag top of cement. Record tag depth. If tag is deeper than 5,868', contact engineer. POOH to 2,500'. RU cement crew and pump open hole plug of 80 sx of 15.8 ppg Class G neat cement.
11. POOH to 1,575'. RU cement crew, pressure test lines and pump open hole plug of 80 sx of 15.8 ppg Class G neat cement at 1,575'.
12. POOH to surface casing and wait four hours. RIH and tag top of cement. Record tag depth. If tag is deeper than 1,475', contact engineer.
13. POOH to 525'. RU cement crew and pump surface casing plug of 188 sx of 15.8 ppg Class G neat cement. POOH and wait four hours. If top of cement not at surface, RIH and tag. If tag is deeper than 115', contact engineer.
14. POOH with 2-7/8" tubing and LD. Place surface plug of 10 sx (Redi-mix or Class G), if needed. RDMO cement and service rig.
15. Once surface plug has set, wait 5 days, cut casing to 5' below ground level and weld on plate to seal the wellbore. Inscribe the well's legal location, well name and number, and API number on the plate as shown below:
CASTOR #2-27
05-123-08250
1920' FSL 690' FWL
NWSW Sec 27 8N 59W
16. Backfill hole and reclaim surface to original conditions.
See As-Plugged (Existing) & Proposed WBD Attachments

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Taylor Heffner
Title: MDS Energy Contractor Date: 1/20/2026 Email: theffner@carbon-shield.com

Based on the information provided herein, this Well Abandonment Report (Form 6) complies with ECMC Rules and applicable orders and is hereby approved.

ECMC Approved: Wolfe, Stephen Date: 2/5/2026

CONDITIONS OF APPROVAL, IF ANY LIST

Expiration Date: 8/4/2026

COA Type	Description
	<p>Plugging COA</p> <ol style="list-style-type: none"> 1) Two(2) electronic notifications required, <ul style="list-style-type: none"> • File a Form 42(MIRU) Notice of MIRU 2 business days ahead of operations, • File a Form 42(PA) Notice of Plugging Operations 48 hours prior to mobilizing for plugging operations. 2) Plugs and squeezes will be placed as stated in the Plugging Procedure section of the approved NOIA unless revised by COA or prior approval from ECMC is obtained. 3) The wellbore must be static prior to placing cement plugs which are to be a minimum of 100' in length for all but surface plugs. Mechanical isolation requires a 25' cement plug (minimum) on top. For plugs not specified to be tagged, a tag is required if circulation is not maintained while pumping plug and displacing to depth. Wait on cement(WOC) a minimum of 4 hrs before tagging a plug. Tag at tops specified. Notify ECMC Area Engineer of a high(shallow) tag or before adding cement to a previous plug due to a low(deep) cement top. 4) Place a 50' cement plug (minimum) at the surface, both inside the inner most casing and in all annular spaces. Surface plugs shall be circulated to surface. Confirm cement to surface and complete isolation in all strings during cut and cap. After cut and prior to cap, verify isolation by either a 15 minute bubble test or 15 minute optical gas imaging observation. If there is any indication of flow contact ECMC Engineering before proceeding. Provide a statement on the 6 SRA as to which method was used and what was observed. Retain records of final isolation test for 5 years. 5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 6) Operator must wait a sufficient time on all plugs to achieve the intended design. If at any time during the plugging there is evidence of previously unreported pressure or fluid migration, contact ECMC Area Engineer before continuing operations. 7) Plugging procedure has been approved as follows, <p>Plug #1 - 6704', tag existing plug and pump a 50 sx cement open hole plug,</p> <p>Plug #2 - 6018-5768', pump a 100 sx open hole plug, WOC and tag,</p> <p>Plug #3 - 2500-2300', pump an 80 sx open hole plug, see COA #3 for tag,</p> <p>All pressure and fluid migration on this well must be eliminated prior to pumping the next plug,</p> <p>Plug #4 - 1575-1375', pump an 80 sx open hole plug, WOC and tag,</p> <p>Plug #5 - 525-0', pump a 218 sx open hole plug and circulate to the surface, WOC and tag at 115' or shallower,</p> <p>Plug #6 - 50' of cement at the surface in the casing per COA #4.</p>
	<p>Due to proximity of plugging and abandonment (P&A) operations to RBUs, operator will comply with Table 423 Maximum Permissible Noise Levels for residential land use. Prior to initiating work, operator will install temporary sound walls, straw bales, or other BMPs to dampen noise if necessary for compliance.</p>
	<p>Due to close proximity to Residential Building Units (RBUs): prior to commencing operations, at a minimum, the operator will provide an informational sheet to the owners/occupants of RBUs that are nearby and adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature, timing, and expected duration of the P&A operations.</p>
	<p>Operator will implement measures to capture, combust, or control emissions to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public health, welfare and the environment. Due to the proximity of residential building units (RBUs) all blowdown gasses will be controlled.</p>
	<p>Due to proximity to a mapped wetland and/or surface water, operator will use secondary containment for all tanks and other liquid containers. Operator will implement stormwater BMPs and erosion control measures as needed to prevent sediment and stormwater runoff from entering the wetland and surface water.</p>

5 COAs

ATTACHMENT LIST

Att Doc Num	Name
404498590	FORM 6 INTENT SUBMITTED
404498600	SURFACE OWNER CONSENT
404498601	WELLBORE DIAGRAM
404498605	LOCATION PHOTO
404498625	WELLBORE DIAGRAM

Total Attach: 5 Files

General Comments

User Group	Comment	Comment Date
Engineer	Requested new WBD to match the approved procedure prior to passing this form. Received and replaced Doc 404498625.	01/30/2026
Engineer	Groundwater - Laramie-Fox Hills, Upper Pierre Deepest water well- 1525'(GR=4945, 3420' MSL), 475'(GR=4880, 4405' MSL), 320'(1mi, 21 records) Log - 123-10204 GR=4940 L-FH 230-440'(4500' MSL), UP 830-1490'(3450' MSL)	01/30/2026
Permit	- Verified re-entry/re-plugging procedure and closed loop system will be utilized Permit Review Complete	01/21/2026
Permit	- Verified GPS data - Verified SUA - Verified completed interval (None, DA) - Verified WBD Emailed operator for the following: - Missing "Describe details of the proposed re-entry/re-plugging procedure & - Missing comment stating that a closed loop system will be utilized Return to DRAFT	01/20/2026

Total: 4 comment(s)