

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.

Document Number:
 404498590
 Date Received:

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:
Set 100 sks cmt from 6018 ft. to 5768 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 80 sks cmt from 2500 ft. to 2300 ft. Plug Type: OPEN HOLE Plug Tagged:
Set 80 sks cmt from 1575 ft. to 1375 ft. Plug Type: OPEN HOLE Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth
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(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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: _____
Surface Plug Setting Date: _____ Cut and Cap Date: _____

*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, 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: _____

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: _____

Date: _____

CONDITIONS OF APPROVAL, IF ANY LIST

Expiration Date: _____

COA Type

Description

<u>COA Type</u>	<u>Description</u>
0 COA	

ATTACHMENT LIST

Att Doc Num

Name

404498600	SURFACE OWNER CONSENT
404498601	WELLBORE DIAGRAM
404498605	LOCATION PHOTO
404498625	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	<ul style="list-style-type: none">- Verified GPS data- Verified SUA- Verified completed interval (None, DA)- Verified WBD Emailed operator for the following: <ul style="list-style-type: none">- 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: 1 comment(s)