

Replug By Other Operator

Document Number:
404498572

Date Received:

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 05-123-08043-00

Well Name: CASTOR Well Number: 1-27

Location: QtrQtr: NESW 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: 40.631110 Longitude: -103.965546

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 | 28.53 | 0 | 149 | 150 | 149 | 0 | VISU |
| OPEN HOLE | 7+7/8 | | | | 149 | 6814 | | | | |

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 | 6678 | ft. to | 6578 | ft. | Plug Type: OPEN HOLE | Plug Tagged: <input type="checkbox"/> |
| Set | 100 | sks cmt from | 5989 | ft. to | 5739 | 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 | | sks cmt from | | ft. to | | ft. | Plug Type: _____ | Plug Tagged: <input 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:

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

Castor #1-27 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 (~100'). 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 down to open hole plug at 410' and drill out. Continue drilling or RIH, cleaning out drilling mud or water to 6,678'. TOOH with bit and 2-7/8" workstring.
8. PU and RIH with mule shoe and 2-7/8" L80 tubing to 6,678'. 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 6,678'.
9. POOH to 5,989'. RU cement crew, pressure test lines and pump open hole plug of 100 sx of 15.8 ppg Class G neat cement at 5,989'.
10. POOH to surface casing and wait hour hours. RIH and tag top of cement. Record tag depth. If tag is deeper than 5,889', 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 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 99', contact engineer.
12. 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.
13. 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 #1-27

05-123-08043

1980' FSL 1980' FWL NESW Sec 27 8N 59W

14. 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 |
|----------|-------------|
| 0 COA | |

ATTACHMENT LIST

| Att Doc Num | Name |
|-------------|-----------------------|
| 404498583 | SURFACE OWNER CONSENT |
| 404498584 | WELLBORE DIAGRAM |
| 404498585 | WELLBORE DIAGRAM |
| 404498586 | LOCATION PHOTO |

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 <p>Emailed operator for the following:</p> <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 <p>Return to DRAFT</p> | 01/20/2026 |

Total: 1 comment(s)