

FORM
6
Rev
02/20

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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|-------------------------------|----|----|----|
| DE | ET | OE | ES |
| Document Number: 402450318 | | | |
| Date Received: 07/31/2020 | | | |

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.

| | |
|--|---|
| OGCC Operator Number: <u>53790</u> | Contact Name: <u>Mark Brown</u> |
| Name of Operator: <u>MARKUS PRODUCTION, INC</u> | Phone: <u>(720) 350-8858</u> |
| Address: <u>39 FAIRWAY LANE</u> | Fax: _____ |
| City: <u>LITTLETON</u> State: <u>CO</u> Zip: <u>80123</u> | Email: <u>mark@markusproduction.com</u> |
| For "Intent" 24 hour notice required, Name: <u>Petrie, Erica</u> Tel: <u>(303) 726-3822</u> | |
| COGCC contact: Email: <u>erica.petrie@state.co.us</u> | |

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

| | | |
|--|---|-------------------------|
| API Number <u>05-123-14742-00</u> | Well Name: <u>LIVENGOOD</u> | Well Number: <u>7-7</u> |
| Location: QtrQtr: <u>SWNE</u> Section: <u>7</u> Township: <u>7N</u> Range: <u>59W</u> Meridian: <u>6</u> | | |
| County: <u>WELD</u> | Federal, Indian or State Lease Number: <u>55564</u> | |
| Field Name: <u>CARETAKER</u> | Field Number: <u>10225</u> | |

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.591649 Longitude: -104.018964

GPS Data: GPS Quality Value: 2.7 Type of GPS Quality Value: _____ Date of Measurement: 05/17/2010

GPS Instrument Operator's Name: Waylon Binger

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems

Other _____

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 |
|------------------|-----------|-----------|----------------|---------------------|------------|
| D SAND | 6777 | 6789 | | | |
| Total: 1 zone(s) | | | | | |

Casing History

| Casing Type | Size of Hole | Size of Casing | Weight Per Foot | Setting Depth | Sacks Cement | Cement Bot | Cement Top | Status |
|-------------|--------------|----------------|-----------------|---------------|--------------|------------|------------|--------|
| SURF | 12+1/4 | 8+5/8 | 24 | 388 | 240 | 388 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 10.5 | 6,949 | 235 | 6,949 | 6,124 | CALC |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6727 with 2 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 5 sks cmt from 5800 ft. to 5740 ft. Plug Type: CASING Plug Tagged:
Set 5 sks cmt from 1500 ft. to 1450 ft. Plug Type: CASING Plug Tagged:
Set 50 sks cmt from 600 ft. to 0 ft. Plug Type: CASING Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 5900 ft. with 50 sacks. Leave at least 100 ft. in casing 5800 CICR Depth
Perforate and squeeze at 1600 ft. with 50 sacks. Leave at least 100 ft. in casing 1500 CICR Depth
Perforate and squeeze at 600 ft. with 120 sacks. Leave at least 100 ft. in casing _____ CICR Depth
(Cast Iron Cement Retainer Depth)

Set _____ sacks half in. half out surface casing from _____ ft. to _____ ft. Plug Tagged:

Set 10 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. _____ inch casing Cut and Cap Date: _____
of _____

*Wireline Contractor: _____ *Cementing Contractor: _____

Type of Cement and Additives Used: _____

Flowline/Pipeline has been abandoned per Rule 1105 Yes No

Technical Detail/Comments:

Well to be PxA'd due to uneconomic production volumes.

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

Signed: _____ Print Name: Mark Brown

Title: President Date: 7/31/2020 Email: mark@markusproduction.com

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

COGCC Approved: Wolfe, Stephen Date: 8/7/2020

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 2/6/2021

| COA Type | Description |
|----------|--|
| | <p>Venting Operator shall implement measures to control unnecessary and excessive venting, to protect the health and safety of the public, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.</p> |
| | <p>Bradenhead Testing Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations. 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p> |
| | <p>Plugging 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Properly abandon flowlines as per Rule 1105. File electronic Form 42 once abandonment complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44. 3) 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 COGCC is obtained. 4) 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. 5) Place a 50' 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 in all strings during cut and cap. 6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 7) Contact COGCC Area Inspector prior to commencing plugging operations. 8) After placing the shallowest hydrocarbon isolating plug(5900'), operator must wait a sufficient time on all subsequent plugs to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC Area Engineer before continuing operations. 9) Combination shoe and surface plug volume adjusted to 170 sx based on yield of 1.15. Adjust cement volume accordingly if yield of actual cement differs. Tag required if circulation is not maintained while pumping plug and displacing to depth. TOC must be 338' or less. 10) Submit gyro survey with Form 6 SRA if available.</p> |

Attachment Check List

| Att Doc Num | Name |
|-------------|-------------------------|
| 402450318 | FORM 6 INTENT SUBMITTED |
| 402457483 | WELLBORE DIAGRAM |

Total Attach: 2 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|---------------------|
| Engineer | SB5 NA L-FH base + 50 = 514 +4918 - 4930 + 50 = 552' WW + Elev + 50 = 300' (2mi) Logs123-05491 | 08/07/2020 |
| Permit | Confirmed as-drilled well location. No other forms in process. Confirmed Dsand interval docnum: 225941. Production reporting up-to-date. Reviewed WBDs. Pass. | 08/03/2020 |

Total: 2 comment(s)