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401665779

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07/26/2019

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: 55030 Contact Name: Jack McCartney
 Name of Operator: MCCARTNEY ENGINEERING LLC Phone: (303) 830-7208
 Address: 4251 KIPLING ST STE 575 Fax: (303) 830-7004
 City: WHEAT RIDGE State: CO Zip: 80033 Email: jack@mccartneyengineering.com

For "Intent" 24 hour notice required, Name: Gomez, Jason Tel: (970) 573-1277
COGCC contact: Email: jason.gomez@state.co.us

API Number 05-001-09302-00 Well Number: 12-10
 Well Name: HSR-FULENWIDER
 Location: QtrQtr: NWSW Section: 10 Township: 2S Range: 66W Meridian: 6
 County: ADAMS Federal, Indian or State Lease Number: _____
 Field Name: BANNER Field Number: 5190

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.890861 Longitude: -104.768328
 GPS Data:
 Date of Measurement: 12/18/2008 PDOP Reading: 2.7 GPS Instrument Operator's Name: Cody Mattson
 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
J SAND	8334	8371			

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	7+7/8	24	1,677	1,175	1,677	0	VISU
1ST	7+7/8	4+1/2	11.6	8,471	260	8,471	7,133	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8264 with 68 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 _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:
 Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ 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 2500 ft. with 40 sacks. Leave at least 100 ft. in casing 2400 CICR Depth
 Perforate and squeeze at 860 ft. with 40 sacks. Leave at least 100 ft. in casing 760 CICR Depth
 Perforate and squeeze at 570 ft. with 180 sacks. Leave at least 100 ft. in casing _____ CICR Depth
 (Cast Iron Cement Retainer Depth)

Set 60 sacks half in. half out surface casing from 1727 ft. to 1494 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. _____ inch casing Plugging Date: _____
 of _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1105 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Set CIBP @ 8120', pressure test at 300 psig for 15 min.
 Place 60 sks on top of CIBP to fill 4 1/2" csg 200' above Niobrara.
 Perforate at 2500', set CICR at 2400', cement with 40 sks below CICR, 8 sks on top.
 Perforate at 1727 (50' below surface csg), set CICR at 1627', pump 50 sks below CICR, 8 sks on top.
 Perforate at 860', squeeze with 40 sks leaving 100' in casing. If good circulation, continue cementing to surface leaving 4 1/2" casing full of cement.
 If cement not circulated to surface, perforate at 560', cement to surface with 180 sks.
 Cut off casing pursuant to landowner's requirements (not less than 4' below surface), weld on plate.
 Place marker over casing.

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

Signed: _____ Print Name: Jack
 Title: McCartney Date: 7/26/2019 Email: jack@mccartneyengineering.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: BURN, DIANA Date: 7/31/2019

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 1/30/2020

COA Type	Description
	<p>NOTE: Changes in plugging procedure - plug depths changed, additional cement</p> <p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) If plug (570') not circulated to surface or does not remain there, then tag plug – must be 230' or shallower and provide 10 sx plug at the surface (inside and outside of casing).</p> <p>3) 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.</p>
	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>If there has not been a reported Bradenhead test within 60 days of plugging this well, prior to starting plugging operations a bradenhead test shall be performed. If the well was not sampled as part of a prior test it should be sampled if pressure is 25# or greater. If there is a need for sampling - contact COGCC engineering for verification of plugging procedures (Pressure greater than 25# or any liquids flowed to surface).</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions, Appendix A: Liquid and Gas Sampling.</p> <p>The Form 17 shall be submitted within 10 days of the test.</p>

Attachment Check List

Att Doc Num	Name
401665779	FORM 6 INTENT SUBMITTED
402119332	PROPOSED PLUGGING PROCEDURE
402123244	WELLBORE DIAGRAM
402123245	WELLBORE DIAGRAM

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	Denver 4904 5027 113.4 282 159 30.84 NNT Upper Arapahoe 4658 4882 102.9 528 304 27.99 NNT Lower Arapahoe 4375 4583 88.9 811 603 24.18 NT Laramie-Fox Hills 3724 3947 171.4 1462 1239 41.14 NT WW develop UAp	07/31/2019
Permit	Returned to draft - 7/25/2019 -J Sand perforations are incorrect on wellbore diagram and zones tab (323131, 323128) op resubmitted with corrections - 7/26	07/25/2019
Permit	Verified as drilled lat/long Verified completed intervals (323131, 323128) Verified production reporting	07/25/2019
Engineer	rt'd to DRAFT - operator request to update procedure/plugs	07/22/2019
Well File Verification	Pass	06/11/2018

Total: 5 comment(s)