

Document Number:
401552047

Date Received:
02/21/2018

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: 69175 Contact Name: Jenifer Hakkarinen
 Name of Operator: PDC ENERGY INC Phone: (303) 8605800
 Address: 1775 SHERMAN STREET - STE 3000 Fax: _____
 City: DENVER State: CO Zip: 80203 Email: Jenifer.Hakkarinen@pdce.com

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

COGCC contact: _____

API Number 05-123-19804-00 Well Number: 33-20
 Well Name: HEINZE HERBER
 Location: QtrQtr: NWSE Section: 20 Township: 1N Range: 67W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: WATTENBERG Field Number: 90750

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.034875 Longitude: -104.912673
 GPS Data:
 Date of Measurement: 07/26/2010 PDOP Reading: 2.1 GPS Instrument Operator's Name: Shantell Kling
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 3000
 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	8214	8240			

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	827	370	827	0	VISU
1ST	7+7/8	4+1/2	11.6	8,362	220	8,362	7,130	CBL
			Stage Tool	5,026	150	5,026	4,425	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8164 with 2 sacks cmt on top. CIBP #2: Depth 7358 with 2 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 40 sks cmt from 5290 ft. to 4763 ft. Plug Type: CASING Plug Tagged:
 Set 60 sks cmt from 3125 ft. to 2900 ft. Plug Type: STUB PLUG Plug Tagged:
 Set 175 sks cmt from 2630 ft. to 2320 ft. Plug Type: OPEN HOLE 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 _____ 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 460 sacks half in. half out surface casing from 1100 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. _____ inch casing Plugging Date: _____
 of _____
 *Wireline Contractor: _____ *Cementing Contractor: _____
 Type of Cement and Additives Used: _____
 Flowline/Pipeline has been abandoned per Rule 1103 Yes No *ATTACH JOB SUMMARY

Technical Detail/Comments:

Heinze Herber 33-20 (05-123-19804)/Plugging Procedure (Intent)
 Producing Formation: J-Sand: 8214'-8240'
 Upper Pierre Aquifer: 2422'-2526'
 TD: 8380' PBTD: 8294'
 Surface Casing: 8 5/8" 24# @ 827' w/ 370 sxs
 Production Casing: 4 1/2" 11.6# @ 8362' w/ 220 sxs cm. DV Tool @ 5026' w/ 150 sxs cmt (TOC @ 4425' - CBL).

Tubing: 2 3/8" tubing set @ 8200' (5/2/2014).
 Proposed Procedure:
 1. MIRU pulling unit. Pull 2 3/8" tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 8164'. Top with 2 sxs 15.8#/gal CI G cement.
 4. TIH with CIBP. Set BP at 7358'. Top with 2 sxs 15.8#/gal CI G cement.
 5. TIH with tubing to 5290'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G cement down tubing (cement coverage from 4763'-5290'). TOOH with tubing.
 6. TIH with casing cutter. Cut 4 1/2" casing at 3000'. Pull cut casing.
 7. TIH with tubing to 3125'. Mix and pump 60 sxs 15.8#/gal CI G w/ 2% CaCl cement down tubing (cement coverage from 2900'-3125').
 8. Pick up tubing to 2630'. Mix and pump 175 sxs 15.8#/gal CI G w/ 2% CaCl cement down tubing (cement coverage from 2320'-2630').
 9. Pick up tubing to 1050'. Mix and pump 460 sxs 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
 10. Cut surface casing 6' below ground level and weld on cap.

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

Signed: _____ Print Name: Jenifer Hakkarinen

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: McCoy, Diane

Date: 2/22/2018

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 8/21/2018

COA Type	Description
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Properly abandon all flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>3) 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>4) If surface casing plug is not circulated to surface then tag plug – must be 468' or shallower and provide a 10 sack plug at the surface.</p>
	<p>Prior to starting plugging operations a bradenhead test shall be performed.</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>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>

Attachment Check List

Att Doc Num	Name
401552047	FORM 6 INTENT SUBMITTED
401552049	WELLBORE DIAGRAM
401552050	WELLBORE DIAGRAM
401552051	GYRO SURVEY

Total Attach: 4 Files

General Comments

User Group	Comment	Comment Date
Engineer	<p>Production records indicate this well has been SI since June 2016. All shut-in wells must pass a mechanical integrity test or be plugged and abandoned within two years of the initial shut-in date.</p> <p>The permit to drill (doc #857428) modified the surface casing setting depth from 800' to 870' and there was a COA to set surface casing no shallower than 870'. This permit condition was not met, surface casing was set at 827'.</p> <p>Corrected cement top for first string based on CBL doc #895438.</p> <p>Removed plug listed as open hole from 1050-0' and added plug as half-in and half-out of surface casing. This plug will cover the surface casing shoe, increased depth to 1100'.</p>	02/22/2018
Permit	pass	02/21/2018

Total: 2 comment(s)