

FORM
6Rev
12/05State of Colorado
Oil and Gas Conservation Commission

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



DE	ET	OE	ES
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	
COGCC contact: Email: jason.gomez@state.co.us	

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: <input type="checkbox"/> Dry <input checked="" type="checkbox"/> Production Sub-economic <input type="checkbox"/> Mechanical Problems	
<input type="checkbox"/> Other	
Casing to be pulled: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Estimated Depth: 3000
Fish in Hole: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If yes, explain details below
Wellbore has Uncemented Casing leaks: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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. CIPB #2: Depth 7358 with 2 sacks cmt on top.
 CIBP #3: Depth _____ with _____ sacks cmt on top. CIPB #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 <u>40</u> sks cmt from <u>5290</u> ft. to <u>4763</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>60</u> sks cmt from <u>3125</u> ft. to <u>2900</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set <u>175</u> sks cmt from <u>2630</u> ft. to <u>2320</u> ft.	Plug Type: <u>OPEN HOLE</u>	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

(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' PBD: 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)