

Document Number:
401066952

Date Received:
06/22/2016

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: Helgeland, Gary Tel: (970) 216-5749

COGCC contact: Email: gary.helgeland@state.co.us

API Number 05-123-21393-00

Well Name: HINGLEY Well Number: 12-18

Location: QtrQtr: SWNW Section: 18 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: 40.052764 Longitude: -104.940449

GPS Data:
Date of Measurement: 07/23/2010 PDOP Reading: 1.8 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: 1100

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	8225	8248			

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	880	620	880	0	VISU
1ST	7+7/8	4+1/2	11.6	8,350	265	8,350	6,988	CBL
			Stage Tool	5,365	190	5,380	4,270	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8174 with 2 sacks cmt on top. CIBP #2: Depth 7807 with 2 sacks cmt on top.
 CIBP #3: Depth 7409 with 2 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 5470 ft. to 4950 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:
 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 440 sacks half in. half out surface casing from 1150 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 Plugging Date: _____
 *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:

Hingley 12-18 (05-123-21393)/Plugging Procedure (Intent)
 Producing Formation: J Sand 8225'-8248'
 TD: 8380' PBD: 8331'
 Surface Casing: 8 5/8" 24# @ 880' w/ 620 sxs.
 Production Casing: 4 1/2" 11.6# @ 8350' w/ 445 sks cmt
 (TOC 6988' CBL. DV tool at 5365'. TOC 4240').

Tubing: 2 3/8" tubing set at 8206'.

Proposed Procedure:

1. MIRU RU pulling unit. Pull 2 3/8" tubing.
2. RU wireline company.
3. TIH with CIBP. Set BP at 8174'. Top with 2 sxs 15.8#/gal CI G cement.
4. TIH with CIBP. Set BP at 7807'. Top with 2 sxs 15.8#/gal CI G cement.
5. TIH with CIBP. Set BP at 7409'. Top with 2 sxs 15.8#/gal CI G cement.
6. TIH with tubing to 5470'. RU cementing company. Mix and pump 40 sxs 15.8#/gal CI G balanced cement plug at 5470'.
7. TIH with casing cutter. Cut 4 1/2" casing at 1100'. Recover 4 1/2" casing.
8. TIH with tubing to 1150'. Mix and pump 440 sxs of 15.8#/gal CI G cement down tubing. Cement should circulate to surface.
9. 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
 Title: Reg Tech Date: 6/22/2016 Email: Jenifer.Hakkarinen@pdce.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: McCoy, Diane

Date: 7/11/2016

CONDITIONS OF APPROVAL, IF ANY:

Expiration Date: 1/10/2017

COA Type

Description

	1) Prior to starting plugging operations, a bradenhead test shall be performed. If any pressure remains at the conclusion of the test or any liquids were present contact COGCC Engineer for sampling requirements. The Form 17 shall be submitted within 10 days of the test. 2) Provide 48 hour notice of plugging MIRU via electronic Form 42. 3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 4) Stub plug is also surface casing shoe plug; if this plug is not circulated to surface then tag plug – must be 780' or shallower and provide a 10 sx plug at the surface.
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Attachment Check List

Att Doc Num

Name

401066952	FORM 6 INTENT SUBMITTED
401066966	WELLBORE DIAGRAM
401066967	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group

Comment

Comment Date

Public Room	Document verification complete 06/28/16	6/28/2016 12:05:02 PM
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Total: 1 comment(s)