

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 05-123-11537-00 Well Number: 1
 Well Name: CHARLES
 Location: QtrQtr: NESW Section: 14 Township: 6N Range: 66W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: _____
 Field Name: BRACEWELL Field Number: 7487

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.486439 Longitude: -104.747349
 GPS Data:
 Date of Measurement: 01/22/2010 PDOP Reading: 2.1 GPS Instrument Operator's Name: Brandon Lucason
 Reason for Abandonment: Dry Production for Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 3555
 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 |
|------------------|-----------|-----------|----------------|---------------------|------------|
| CODELL | 7205 | 7222 | | | |
| NIOBRARA | 6925 | 7070 | | | |
| Total: 2 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 | 315 | 300 | 315 | 0 | |
| 1ST | 7+7/8 | 4+1/2 | 11.6 | 7,356 | 155 | 7,356 | 6,405 | |
| S.C. 1.1 | 7+7/8 | 4+1/2 | 11.6 | 4,150 | 169 | 4,150 | 3,655 | |

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7155 with 2 sacks cmt on top. CIBP #2: Depth 6875 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 36 sks cmt from 4595 ft. to 4100 ft. Plug Type: CASING Plug Tagged:
Set 50 sks cmt from 3605 ft. to 3391 ft. Plug Type: STUB PLUG 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 4650 ft. with 80 sacks. Leave at least 100 ft. in casing 4600 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 279 sacks half in. half out surface casing from 1000 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:

Proposed Plugging Procedure

Surface Csg: 8-5/8" - 24# - Set @ 315' w/ 300 sxs.
Production Csg: 4-1/2" - 11.6# - Set @ 7,356' w/ 155 sxs.
Production Csg Squeeze: 4-1/2" @ 4,150' w/ 169 sxs.
Original CBL TOC @ 6,405'
Original Volumetric Squeeze TOC @ 3,655'

**Need CBL run for TOC and squeeze BOC confirmations

- 1) MIRU WO rig.
- 2) Load well and make sure well is dead.
- 3) MIRU WL unit.
- 4) PU CBL tool.
- 5) RIH and log entire well.
- 6) Locate current TOC's (If current TOC's/BOC are different, then adjust and contact engineer and state for approval).
- 7) PU CIBP.
- 8) RIH w/ CIBP and set @ 7,155'.
- 9) POOH.
- 10) RU cmt services.
- 11) PU dump bailer w/ 2 sxs cmt.
- 12) RIH w/ bailer and spot cmt on CIBP from 7,154' to 7,127'.
- 13) POOH w/ bailer.
- 14) PU CIBP.
- 15) RIH w/ CIBP and set @ 6,875'.
- 16) POOH.
- 17) PU dump bailer w/ 2 sxs cmt.
- 18) RIH w/ bailer and spot cmt on CIBP from 6,874' to 6,847'.
- 19) POOH w/ bailer.
- 20) PU perf gun.
- 21) RIH and perforate 4.5" production csg from 4,650' to 4,648' (60 deg phase, 12 shots, .42").
- 22) TOOH and perforate 4.5" production csg from 4,200' to 4,198' (60 deg phase, 12 shots, .42").
- 23) POOH w/ perf gun.
- 24) Load well.
- 25) PU cmt retainer.
- 26) RIH w/ retainer and set @ 4,600'.
- 27) Sting into retainer.
- 28) Displace 80 sxs cmt through retainer (Sussex squeeze - Est. TOC @ 4,250').
- 29) Sting out of retainer.
- 30) Spot a 36 sx balance cmt plug on top of retainer from 4,595' to 4,100'.
- 31) POOH.
- 32) PU casing cutter tool.
- 33) RIH w/ cutter and cut 4.5" production csg @ 3,555'.
- 34) POOH w/ cutter.
- 35) POOH w/ cut section of csg.
- 36) RIH and spot a 50 sx balance cmt plug from 3,605' to 3,391' (Stub plug).
- 37) TOOH and spot a 279 sx balance cmt plug from 1,000' to surface (Surface plug).
- 38) Top off any remaining volume.
- 39) RDMO service units.
- 40) Cut and weld 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: Regulatory TEch Date: 8/18/2015 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: HICKEY, MIKE Date: 9/4/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 3/3/2016

| COA Type | Description |
|-----------------|--|
| | 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) For 1000' plug: pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours and tag plug – must be 265' or shallower and provide 10 sx plug at the surface. Leave at least 100' of cement in the wellbore for each plug. 3) Properly abandon flowlines as per Rule 1103. Once flowlines are properly abandoned, file electronic form 42. |

Attachment Check List

| <u>Att Doc Num</u> | <u>Name</u> |
|--------------------|-------------------------|
| 400886113 | FORM 6 INTENT SUBMITTED |
| 400886132 | WELLBORE DIAGRAM |
| 400886133 | WELLBORE DIAGRAM |

Total Attach: 3 Files

General Comments

| <u>User Group</u> | <u>Comment</u> | <u>Comment Date</u> |
|-------------------|--|----------------------|
| Permit | IN PROCESS - Operator added niobrara perf interval. | 9/1/2015 2:43:28 PM |
| Permit | 196408 well completion 07/01/1996 1340220 Completed Interval Report 08/29/2002 ON HOLD - Zones tab is missing perf info for the Niobrara. Contacted operator to correct. | 9/1/2015 2:32:07 PM |
| Public Room | DOCUMENT VERIFICATION COMPLETE 8/19/15 | 8/19/2015 2:56:27 PM |

Total: 3 comment(s)