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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: Valerie Danson
 Name of Operator: PDC ENERGY INC Phone: (970) 506-9272
 Address: 1775 SHERMAN STREET - STE 3000 Fax: _____
 City: DENVER State: CO Zip: 80203 Email: valerie.danson@pdce.com

For "Intent" 24 hour notice required, Name: Serna, Abe Tel: (720) 661-7317
 COGCC contact: Email: abe.serna@state.co.us

API Number 05-123-20225-00 Well Number: 32-17
 Well Name: HOSHIKO
 Location: QtrQtr: SWNE Section: 17 Township: 5N Range: 64W 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: 40.401110 Longitude: -104.571580
 GPS Data:
 Date of Measurement: 08/21/2010 PDOP Reading: 1.3 GPS Instrument Operator's Name: Holly L. Tracy
 Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____
 Casing to be pulled: Yes No Estimated Depth: 1480
 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	6837	6847			
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	396	360	396	0	VISU
1ST	7+7/8	4+1/2	10.5	7,068	325	7,068	3,080	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6787 with 2 sacks cmt on top. CIBP #2: Depth 6450 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 80 sks cmt from 1530 ft. to 1280 ft. Plug Type: STUB PLUG Plug Tagged:
 Set 187 sks cmt from 600 ft. to 0 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:
 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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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 Cut and Cap 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:

Hoshiko 32-17 (05-123-20225)/Plugging Procedure (Intent)
 Producing Formation: Codell: 6837'-6847'
 Upper Pierre Aquifer: 260'-1380'
 TD: 7068' PBTD: 6979' (1/15/2018)
 Surface Casing: 8 5/8" 24# @ 396' w/ 360 sxs
 Production Casing: 4 1/2" 10.5# @ 7068' w/ 325 sxs cmt (TOC @ 3080 - CBL)
 Tubing: 2 3/8" tubing set @ 6947' (1/15/2018)
 Proposed Procedure:
 1. MIRU pulling unit. Pull 2 3/8 tubing.
 2. RU wireline company.
 3. TIH with CIBP. Set BP at 6787'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Codell perfs @ 6837')
 4. TIH with CIBP. Set BP at 6450'. Top with 2 sxs 15.8#/gal CI G cement. (Top of Niobrara @ 6500')
 5. TIH with casing cutter. Cut 4 1/2" casing at 1480'. Pull cut casing.
 6. TIH with tubing to 1530'. RU cementing company. Mix and pump 80 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 1480'-1280').
 7. Pick up tubing to 600'. Mix and pump 187 sxs 15.8#/gal CI G cement down tubing (Pierre coverage from 600'-surface). Cement should circulate to surface.
 8. 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: Valerie Danson
 Title: Reg Tech Date: _____ Email: valerie.danson@pdce.com

