

Document Number:
401013885

Date Received:
03/25/2016

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: 95520 Contact Name: Tom Kirkwood

Name of Operator: WESCO OPERATING INC Phone: (307) 577-5328

Address: 120 S DURBIN STREET Fax: (307) 265-1791

City: CASPER State: WY Zip: 82602 Email: tomk@kirkwoodcompanies.com

For "Intent" 24 hour notice required, Name: Sherman, Susan Tel: (719) 775-1111

COGCC contact: Email: susan.sherman@state.co.us

API Number 05-121-08462-00

Well Name: RUDNICK Well Number: 32-27

Location: QtrQtr: SWNE Section: 27 Township: 3S Range: 51W Meridian: 6

County: WASHINGTON Federal, Indian or State Lease Number: _____

Field Name: JUSTICE Field Number: 42875

Notice of Intent to Abandon Subsequent Report of Abandonment

Only Complete the Following Background Information for Intent to Abandon

Latitude: 39.766190 Longitude: -103.074160

GPS Data:
Date of Measurement: 03/04/2009 PDOP Reading: 2.3 GPS Instrument Operator's Name: SCOTT DEMANCHE

Reason for Abandonment: Dry Production Sub-economic Mechanical Problems
 Other _____

Casing to be pulled: Yes No Estimated Depth: _____

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
DAKOTA-JSND	3980	3982			

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	135	110	135		VISU
1ST	7+7/8	5+1/2	14-15.5	4,080	150	4,080	3,019	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth _____ with _____ sacks cmt on top. CIBP #2: Depth _____ with _____ 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 _____ 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:
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged:

Perforate and squeeze at 3980 ft. with 40 sacks. Leave at least 100 ft. in casing 3920 CICR Depth

Perforate and squeeze at 2919 ft. with 40 sacks. Leave at least 100 ft. in casing 2850 CICR Depth

Perforate and squeeze at 185 ft. with 50 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 15 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:

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

Signed: _____ Print Name: Thomas C. Kirkwood

Title: Engineer Date: 3/25/2016 Email: tomk@kirkwoodcompanies.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: SUTPHIN, DIRK Date: 3/29/2016

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 9/28/2016

<u>COA Type</u>	<u>Description</u>
	<p>Note changes to submitted form.</p> <p>1) Provide 48 hour notice of MIRU via electronic Form 42.</p> <p>2) Pressure up casing to 500 psi after setting 1st plug (CICR at 3920' and 40 sx cement). After perforating at 2919' establish circulation into perms before setting CICR at 2850'. If perms do not take fluid set 20 sx cement inside casing at 2969'-2869'. (The assumption being there must be cement behind casing there if the squeeze perms are not taking fluid. If in doubt run CBL to determine how to set this plug at the Niobrara top).</p> <p>3) Tag shoe plug (185-85') 50' above surface casing shoe. Cement from 50' to surface in casing and annulus.</p> <p>4) Properly abandon flowlines as per Rule 1103. File Form 42.</p> <p>5) Inscribe abandoned well marker with the well's legal location, well name and number, and API Number, as per Rule 319.a.(5)</p>

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
401013885	FORM 6 INTENT SUBMITTED
401015251	PROPOSED PLUGGING PROCEDURE
401015252	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Public Room	Document verification complete 03/29/16	3/29/2016 4:03:07 PM
Engineer	<p>Plugging:</p> <p>1. Procedure says 1st plug is 30 sx to J-Sand perms + 12 sx on top of retainer at 3920' (made it 40 sx). 2nd plug is 26 sx under retainer + 6 sx on top of retainer at 2850' (made it 40 sx).</p> <p>2. Added perforation at 185' for shoe plug. Operator proposed 18 sx via 1" at 150'. 18 sks would fill the 5.5" casing from 150' to surface. However both casing and annulus must be cemented from 50' below surface casing to 50' above surface casing, and the casing and annulus must also be cemented 50' to surface .</p>	3/29/2016 3:09:22 PM
Permit	Operator has made necessary corrections.	3/25/2016 2:48:29 PM
Permit	Operator requested that form be returned to draft to correct the WBD.	3/24/2016 8:14:00 AM
Permit	Perf interval on wellbore diagram does not match this form or scout card. Contacted operator for clarification.	3/24/2016 7:57:51 AM

Total: 5 comment(s)