

Document Number:
 402161891
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 08/29/2019

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: 100322 Contact Name: Garrett Reddin
 Name of Operator: NOBLE ENERGY INC Phone: (720) 822-9993
 Address: 1001 NOBLE ENERGY WAY Fax: _____
 City: HOUSTON State: TX Zip: 77070 Email: garrett.reddin@nblenergy.com
For "Intent" 24 hour notice required, Name: Santistevan, Brittani Tel: (720) 471-1110
COGCC contact: Email: brittani.santistevan@state.co.us

API Number 05-123-17118-00 Well Name: OTTOSON Well Number: 32-15
 Location: QtrQtr: SWSE Section: 32 Township: 7N Range: 65W Meridian: 6
 County: WELD Federal, Indian or State Lease Number: 59332
 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: 40.526085 Longitude: -104.684339
 GPS Data:
 Date of Measurement: 04/29/2008 PDOP Reading: 1.7 GPS Instrument Operator's Name: Paul Tappy
 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
CODELL	7208	7218			
PARKMAN	3816	3823	10/21/1993	SQUEEZED	

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	469	300	469	0	VISU
1ST	7+7/8	4+1/2	11.6	7,404	150	7,404	6,408	CBL
S.C. 1.1				3,750	340	3,650	3,110	CBL
S.C. 1.2				3,960	50	3,960	3,730	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7156 with 2 sacks cmt on top. CIBP #2: Depth 6861 with 2 sacks cmt on top.
CIBP #3: Depth 3774 with 2 sacks cmt on top. CIBP #4: Depth 3598 with 2 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 2609 ft. with 165 sacks. Leave at least 100 ft. in casing 2507 CICR Depth

Perforate and squeeze at 700 ft. with 230 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:

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

Signed: _____ Print Name: Stephanie Dionne

Title: Operations Tech Date: 8/29/2019 Email: stephanie.dionne@nblenergy.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: JENKINS, STEVE Date: 9/12/2019

CONDITIONS OF APPROVAL, IF ANY: _____

Expiration Date: 3/11/2020

COA Type	Description
	Submit Form 5 to report annular fill performed between 10/2/1993-10/4/1993 and identified on wellbore diagram attached to this Notice of Intent. Include wireline tickets and/or cement tickets. This Form 5 must be submitted within 30 days for compliance with Rule 308A.
	Submit Form 5A to report perforated interval and subsequent squeeze for PRKM identified on wellbore diagram attached to this Notice of Intent. Include wireline tickets and/or cement tickets. This Form 5A must be submitted within 30 days for compliance with Rule 308B.
	Submit Operator's Monthly Production Reports (Form 7) required for compliance with Rule 309 within 30 days. <ul style="list-style-type: none"> •Missing CODL production 04/2009-07/2009 •Report PRKM with AB status 10/1993-11/1993
	<ol style="list-style-type: none"> 1) Provide 48 hour notice of plugging MIRU via electronic Form 42. 2) Prior to placing the 700' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders. 3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 419' or shallower and provide 10 sx plug at the surface. 4) Leave at least 100' of cement in the wellbore for each plug. 5) Properly abandon flowlines per Rule 1105. File electronic Form 42 once abandonment of on-location flowlines is complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line the operator must submit a Flowline Report, Form 44. 6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed. 7) After placing the shallowest hydrocarbon isolating plug (2609'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.
	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <ol style="list-style-type: none"> 1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required. 2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required. <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>
	Verify existing cement coverage by CBL - submit to COGCC for verification of plugging orders prior to continuing plugging operations.

Attachment Check List

Att Doc Num	Name
402161891	FORM 6 INTENT SUBMITTED
402161911	WELLBORE DIAGRAM
402161912	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	•Operator reports: "An annular fill was done on the Parkman first (10/2-10/4/93) through squeeze holes at 3960', 3800' and 3730', and then on 10/6/93 the formation was perf'd from 3816'-3823'. They did not get any production so then they squeezed off those perms on 10/21/93 and 10/23/93."	09/11/2019
Permit	•Verified SHL lat./long •Verified CODL perfed interval via Doc. 216118 •No 5As on file for PRKM perf or squeeze •Attached WBD appears to show that the PRKM was perfed, tested and squeezed, then subsequently remedially squeezed; No 5A or 5 was ever filed for this PRKM interval; contacted Operator for clarification •Will need to attach COA for CODL production 04/2009-07/2009 •May need to attach COA for PRKM 5 and/or 5A after reply from Operator	09/03/2019
Engineer	"Well file verification not completed prior to approval of NOIA".	08/30/2019
Engineer	1) Deepest Water Well within 1 mile = 500'. 2) Fox Hills Bottom- N/A, per SB5.	08/30/2019

Total: 4 comment(s)