

FORM
6Rev
12/05State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400826770

Date Received:

04/16/2015

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: 47120

Contact Name: Cheryl Light

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP

Phone: (720) 929-6461

Address: P O BOX 173779

Fax: (720) 929-7461

City: DENVER State: CO Zip: 80217-

Email: cheryl.light@anadarko.com

For "Intent" 24 hour notice required,

Name: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-16638-00

Well Name: HSR-MCDANIELS

Well Number: 4-22

Location: QtrQtr: NWNW Section: 22 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 60736

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: 40.217000

Longitude: -104.884220

GPS Data:

Date of Measurement: 02/10/2007

PDOP Reading: 3.6

GPS Instrument Operator's Name: Chris Fisher

Reason for Abandonment: ☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 870

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	7063	7081			
NIOBRARA	6789	6941			

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	565	400	565	0	VISU
1ST	7+7/8	4+1/2	11.6	7,245	650	7,245	3,670	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6740 with 25 sacks cmt on top. CIBP #2: Depth 80 with 25 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 25 sks cmt from 6740 ft. to 6340 ft. Plug Type: CASING Plug Tagged: ☐
Set 40 sks cmt from 4300 ft. to 3770 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: ☐

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 210 sacks half in. half out surface casing from 970 ft. to 465 ft. Plug Tagged: ☒

Set 25 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:

1. Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. MIRU slickline services. Attempt to pull bumper spring and tag bottom (operations report dated 2/6/2012 shows suspected broken bumper spring). RDMO slickline services.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL.
5. MIRU, kill as necessary using biocide treated water. NDWH. NUBOP. Unseat landing jt, LD.
6. Notify cementers to be on call. Provide volumes listed below:
 - 6.1 Niobrara plug: 25 sx (35 cu-ft) "G" w/ 20% silica flour, 0.4% CD-32, 0.4 ASA-301 and R-3 to achieve 2:30 pump time, mixed at 15.8 ppg and 1.38 cu-ft/sk yield. Cement volume based on 400' in 4 1/2" casing.
 - 6.2 Sussex plug: 40 sx (46 cu-ft) "G" w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk yield. Cement volume based on 530' in 4 1/2" casing.
 - 6.3 Foxhills plug: 210 sx (279 cu-ft) Type III w/cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk yield. Cement volume based on 100' in 4 1/2" casing, 305' in a 10" OH with 20% excess, and 200' in 8 5/8" casing. Caliper on file.
7. TOOH 2 3/8" tubing landed at 7030'. Stand back 2 3/8" tubing.
8. MIRU WL. RIH gauge ring for 4 1/2" 11.6# casing to 6750'. POOH.
9. PU 4 1/2" 11.6# CIBP and RIH with WL. Set at +/- 6740' to abandon Niobrara and Codell perms. PT to 1000 psi for 15 minutes. RDMO WL.
10. RIH with 2 3/8" tubing to +/- 6740', tag CIBP and PUH 5'. Hydrotest tubing to 3000 psi while RIH.
11. MIRU cementers. Pump Niobrara plug: 25 sx (35 cu-ft) "G" w/ 20% silica flour, 0.4% CD-32, 0.4 ASA-301 and R-3 to achieve 2:30 pump time, mixed at 15.8 ppg and 1.38 cu-ft/sk yield. Plug to cover 6340' – 6740'.
12. PUH to +/- 6100'. Reverse circulate with biocide treated water to displace cement and clear tubing.
13. PUH to +/- 4300'.
14. RU cementers. Pump Sussex plug: 40 sx (46 cu-ft) "G" w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk yield. Plug to cover 3770' – 4300'. RDMO cementers.
15. PUH to +/- 3600'. Reverse circulate with biocide treated water to displace cement and clear tubing.
16. WOC per cement company recommendation. Tag cement at or above 3770'. If not, consult with Evans Engineering.
17. POOH. Stand back 970' of tubing.
18. MIRU WL. Shoot off 4 1/2" casing at or below 870'. RDMO WL. Circulate casing with biocide treated water to remove any gas.
19. NDBOP, NDTH.
20. Install BOP on casing head with 4 1/2" pipe rams.
21. TOOH 4 1/2" casing, LD.
22. RIH with 2 3/8" tubing to 970' inside 4 1/2" casing.
23. MIRU cementers. Establish circulation with biocide treated water and precede cement with 10 bbl SAPP and a minimum 20 bbl fresh water spacer. Pump Foxhills plug: 210 sx (279 cu-ft) Type III w/ cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk yield. Plug to cover 970' – 870' in 4 1/2" casing, 870' – 565' in 10" OH with 20% excess, and 565' – 365' in 8 5/8" casing. Caliper readings across entire interval. RDMO cementers.
24. PUH to 100' and circulate with biocide treated water to displace cement and clear tubing.
25. WOC per cement company recommendation. Tag cement at or above 465'. If not, consult with Evans Engineering.
26. MIRU WL. RIH 8 5/8" 24# CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. If tests, RDMO WL and WO rig.
27. Instruct cementing and wireline contractors to email copies of all job logs/jobs summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
28. Supervisor is to submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
29. Excavation crew to notify One Call to clear excavation area around wellh

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

Signed: _____ Print Name: Cheryl Light
 Title: Sr. Regulatory Analyst Date: 4/16/2015 Email: cheryl.light@anadarko.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: SCHLAGENHAUF, MARK Date: 6/11/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/10/2015

COA Type

Description

	<ol style="list-style-type: none"> 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 970' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 515' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

Att Doc Num**Name**

400826770	FORM 6 INTENT SUBMITTED
400826771	PROPOSED PLUGGING PROCEDURE
400826772	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Permit	Well Completion Report dated 6/21/1993.	4/27/2015 1:21:41 PM
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Total: 1 comment(s)