

FORM  
6Rev  
12/05

## State 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:

400689417

Date Received:

09/16/2014

## 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 &amp; 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 05-123-18847-00

Well Name: HSR-RADEMACHER

Well Number: 13-30

Location: QtrQtr: SWSW Section: 30 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 64620

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: 40.192370

Longitude: -104.940290

GPS Data:

Date of Measurement: 06/20/2007

PDOP Reading: 3.5

GPS Instrument Operator's Name: Steve Fisher

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

Estimated Depth: 930

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	7192	7202			
NIOBRARA	6992	6993			

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	23	730	510	730	0	VISU
1ST	7+7/8	3+1/2	7.7	7,337	365	7,337	6,526	CBL
S.C. 1.1	7+7/8	3+1/2	7.7	7,337	160	4,998	3,838	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6910 with 20 sacks cmt on top. CIPB #2: Depth 80 with 25 sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIPB #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 20 sks cmt from 6910 ft. to 6380 ft. Plug Type: CASING Plug Tagged: ☐  
Set 50 sks cmt from 4950 ft. to 3830 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 180 sacks half in. half out surface casing from 930 ft. to 530 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:

**RADEMACHER 13-30 (HSR)****Step Description of Work**

1 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call IOC (970-506-5980) at least 24 hr 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. Pull bumper spring and tag bottom.

3 Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.

4 Prepare location for base beam equipped rig. Install perimeter fence as needed.

5 MIRU, kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt.

6 TOO and stand back 2.063" IJ tbg: 217 jts landed @ 7180'

7 MIRU Warrior WL. PU guage ring for 3 1/2" 7.7# csg . RIH to 6950'.

8 RIH 3 1/2" CIBP and set at 6910' to abandon Cd/Nb perms. PT Casing to 1000 psi for 15 minutes. RDWL.

9 TIH w/ 2 .063" tbg open-ended to CIBP at 6910'. Hydro-test tbg to 3000 psi.

10 RU cementers and equalize a balanced plug above CIBP from 6920' to 6380' as follows: 20 sx "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 cuft/sk. (28 cuft of slurry).

11 POH 15 stands and circulate tbg clean using fresh water treated with biocide. POH and LD WS to bring EOT to 4950'.

12 RU cementers and equalize a balanced plug from 4950' to 3830' as follows: 50 sx class "G", w/0.4% CD-32, 0.4% ASA-301, and CaCl2 as deemed appropriate mixed at 15.8 ppg and 1.15 cuft/sk (58 cuft of slurry).

13 POH to ~3000. Circulate water containing biocide to clear tubing. WOC per cementing company recommendation.

14 Tag cement @ 3830'. POH and stand back 930' of tbg.

15 ND BOP and wellhead. Install BOP on surface casing head with 3 1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.

16 RU WL. Crack coupling or cut casing at 930'. RDMO WL. Circulate bottoms up and continue circulating to remove any gas from wellbore.

17 TOO and LD 930' of 3 1/2" casing.

18 RIH with tubing open-ended to 930' (3 1/2" stub).

19 RU cementers. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min) fresh water spacer immediately preceding cement.

20 Pump balanced Stub Plug: 180 sx Type III w/0 .25#/sk cello flake and CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (239 cuft of slurry). Cement volume based on 200' in 8 5/8" csg, and 200' in 10" OH + 40% excess.

21 TOO. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 630'. If not, consult Evans Engineering.

22 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.

23 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.

24 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.

25 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

26 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.

27 Welder cut 8 5/8" casing minimum 5' below ground level.

28 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

29 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

30 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

31 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

32 Back fill hole with fill. Clean location, level.

33 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

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: 9/16/2014 Email: DJREGULATORY@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: 9/30/2014

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 3/29/2015

**COA Type****Description**

	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 930' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 680' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.
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### Attachment Check List

**Att Doc Num****Name**

400689417	FORM 6 INTENT SUBMITTED
400689418	WELLBORE DIAGRAM
400689419	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

### General Comments

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

Permit	Well Completion Report dated 4/3/1995.	9/19/2014 4:14:24 PM
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Total: 1 comment(s)