

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:

400609611

Date Received:

05/15/2014

## 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: (303) 8942100

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-18933-00

Well Name: HSR-HOUSTON, B

Well Number: 4-16

Location: QtrQtr: NENW Section: 16 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 72/2162-S

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: 40.230860

Longitude: -104.898030

GPS Data:

Date of Measurement: 03/14/2006

PDOP Reading: 3.5

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: 1100

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	7341	7346			
NIOBRARA	7158	7160			

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	685	520	685	0	VISU
1ST	7+7/8	4+1/2	11.6	7,480	280	7,480	6,360	CBL
S.C. 1.1					125	4,980	3,720	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7100 with 30 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 <u>30</u> sks cmt from <u>7100</u> ft. to <u>6700</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>60</u> sks cmt from <u>3700</u> ft. to <u>4400</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>230</u> sks cmt from <u>1200</u> ft. to <u>485</u> ft.	Plug Type: <u>STUB PLUG</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 230 sacks half in. half out surface casing from 1200 ft. to 485 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:

HSR-Houston "B" 4-16

1 Note: Production Casing = 4 1/2" OD, 11.6#/ft, I-80; Production Hole Drilled @ 8 5/8"

2 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 foreman or lead operator at least 24 hr prior to rig move. Request they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.

3 MIRU slickline services and VES. Pull bumper spring and tag bottom. Run pressure bomb and obtain pressure gradient survey from surface to 7479' making gradient stops every 1000'. Forward pressure bomb results to Evans Engineering.

4 Run gyro survey from 7479' to surface with stops every 100'. Forward gyro survey data to Sabrina Frantz and invoices to Sabrina Frantz. RDMO slickline services and VES.

5 Notify IOC when rig mobilizes to location to generate workorder for flowline removal & one call for line locates.

6 Prepare location for base beam equipped rig.

7 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.

8 Notify cementers to be on call. Provide volumes listed below:

8.1 Niobrara Plug: 30 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk (400' inside 4 1/2" Casing, no excess)

8.2 SX Plug: 60 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx.

8.3 Stub Plug: 230 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.0 ppg and 1.53 cf/sx (100' in 4 1/2" prod casing, 300' in 7-7/8" OH + 60% excess, and 200' in 8 5/8" surface casing)

9 TOO H 2 3/8 " production tubing. Stand Back.

10 MIRU WL. RIH gauge ring for 4 1/2" 11.6#/ft casing to 7125'. POOH.

11 RIH CIBP w/ WL. Set at +/- 7050' (collars located at 7033' and 7076'). Dump bail 2 sx class "G" cement on CIBP.

12 Pressure test CIBP to 1000 psi.

15 RIH to 7050' w/ 2 3/8" tubing while hydrotesting to 3,000 psi.

16 RU Cementers. Pump Niobrara Plug: 30 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk to place cement in 4-1/2" production casing.

17 PUH to 4400'. Circulate 95 bbls water containing biocide to clear tubing.

21 Pump SX plug: 60 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx to place cement in 4-1/2" casing.

23 PUH 5 stands. Circulate 55 bbls water containing biocide to clear tubing. Then, TOO H and SB remainder of tbq.

24 RU WL. Shoot off casing at or below 1100'. RDMO WL. Circulate a full circulation with water containing biocide to remove any gas.

25 NDBOP, NDTH.

26 Install BOP on casing head with 4 1/2" pipe rams.

27 TOO H with 4 1/2" casing, LD.

28 RIH with 2 3/8 " tubing to 1200'.

29 RU Cementers. Spot Stub Plug: 230 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.0 ppg and 1.53 cf/sx (100' in 4 1/2" prod casing, 300' in 7-7/8" OH + 60% excess, and 200' in 8 5/8" surface casing).

30 Circulate 5 bbls water containing biocide to clear tubing.

31 TOO H. WOC 4 hrs. Tag Cement. Cement top needs to be at or above 485'; Proceed assuming TOC is at or above 485'.

Otherwise, call production engineer.

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

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

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

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

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

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

38 MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.

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: 5/15/2014 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: 5/17/2014

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 11/16/2014

<u>COA Type</u>	<u>Description</u>
	<p>Note changes to plugging procedure:</p> <ol style="list-style-type: none"> <li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li> <li>2) Move CIBP w/ 30 sxs from 7050' to 7100'.</li> <li>3) If unable to pull casing, contact COGCC for plugging modifications.</li> <li>4) For 1200' plug: pump plug and displace. Wait 4 hours then tag plug – must be 635' or shallower.</li> <li>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>

### **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400609611	FORM 6 INTENT SUBMITTED
400609636	PROPOSED PLUGGING PROCEDURE
400609637	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion report dated 6/6/1996.	5/16/2014 2:09:33 PM

Total: 1 comment(s)