

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



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Document Number:

400861250

Date Received:

## 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: REBECCA HEIM

Name of Operator: KERR MCGEE OIL &amp; GAS ONSHORE LP

Phone: (720) 929-6361

Address: P O BOX 173779

Fax: (720) 929-7361

City: DENVER State: CO Zip: 80217-

Email: REBECCA.HEIM@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 05-123-18320-00

Well Name: HSR-B/R

Well Number: 7-20

Location: QtrQtr: SWNE Section: 20 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number:

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: 40.213480

Longitude: -104.912140

GPS Data:

Date of Measurement: 07/02/2008

PDOP Reading: 2.7

GPS Instrument Operator's Name: Cody Mattson

Reason for Abandonment:

☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 4300

Fish in Hole:

☒ Yes☐ No

If yes, explain details below

Wellbore has Uncemented Casing leaks:

☒ Yes☐ No

If yes, explain details below

Details:

CIBP was set @ 6925' with a 13 sack cement plug on top - 8/21/2014

CIBP was left in hole @ approximately 5937' - may not be set. 8/22/2014

2 7/8" casing was pressure tested to 2000 psi and bled off to 1800 psi in 15 minutes - 8/22/2014.

### Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7207	7210	08/21/2014	B PLUG CEMENT TOP	6925
NIOBRARA	6995	6998	08/21/2014	B PLUG CEMENT TOP	6925

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	663	460	663	0	VISU
1ST	7+7/8	2+7/8	6.5	7,350	175	7,350	6,456	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 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 20 sks cmt from 5937 ft. to 5237 ft. Plug Type: CASING Plug Tagged: ☒  
Set 210 sks cmt from 4300 ft. to 3850 ft. Plug Type: OPEN HOLE 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 980 ft. to 560 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:

#### 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 the Automation Removal Group at least 24 hr prior to rig move. Request they isolate production equipment and remove any automation prior to rig MIRU.
- 2 The 1.66" production tbg was removed from this well 8/19/2014 when it was prepped to P&A. A 1.66" work string will be needed.
- 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, bleed well down. All perfs have been abandoned with CIBP and cement plug. ND WH. NU BOP.
- 6 PU and TIH with 1.66" work string open-ended to CIBP. NOTE: CIBP reported left in hole @ 5937'. Hydro-test WS to 3000 psi on TIH. Report tag depth to Evans Engineering.
- 7 PT casing to 2500 psi for 15 minutes.
- 8 RU cementers. Place a balanced cement plug above CIBP as follows: 20 sx class "G" w/ 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk. (23 cuft of slurry). Coverage equals 700' in 2 7/8" csg.
- 9 TOH to 4500' and circulate biocide-treated water to clear tbg and casing. WOC per cementing company recommendation.
- 10 TIH to tag cement plug and report tag depth.
- 11 TOOH and LD 1.66" tbg.
- 12 RU WL, RIH w/ chemical cutter or jet cutter and cut 2 7/8" casing at 4300'. Circulate bottoms up and continue circulating to remove any gas from wellbore. RD WL.
- 13 ND BOP and wellhead. Install BOP on surface casing head with 2 7/8" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet. NOTE: If 2 7/8" csg did not pass PT in step #7, TOOH and hydro-test in to 3000 psi before proceeding to step 14.
- 14 RU Cementers. Establish circulation down 2 7/8" csg taking returns on surface csg. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement. Note: If unable to circulate, consult Evans Engineering.
- 15 Pump a balanced cement plug from 4300' to 3850': 210 sx class "G" w/0.25 lb/sk Polyflake 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk. (242 cuft of slurry). Cement volume based on 450' coverage in 9" open hole with 20% excess. Caliper log on file.
- 16 TOH to 2000' and circulate to clear 2 7/8" and wellbore. WOC per cementing company recommendation.
- 17 TIH and tag top of plug @ 3850'. LD 2 7/8" tbg to place EOT at 980'.
- 18 RU cementers. Establish circulation and pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min) fresh water spacer immediately preceding cement.
- 19 Pump a balanced plug 980'-460': 180 sx (240 cuft.) Type III cement w/ 0.25 pps Polyflake, 0.3% CFR-2, 0.3% CFL-3 and 0.5% CaCl2 mixed at 14.8 ppg and 1.33 cf/sk. Design to fill 317' in 9" OH + 20% excess and 203' in 8 5/8" surface casing. Caliper log on file.
- 20 TOOH and LD 2 7/8" tbg. WOC per cementing company recommendation. Tag plug; TOC should be 563' or higher. If not, Consult Evans Engineering before proceeding.
- 21 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.
- 22 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.
- 23 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
- 24 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 25 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
- 26 Welder cut 8 5/8" casing minimum 5' below ground level.
- 27 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

PLEASE SEE PROCEDURE DOCUMENT ATTACHED FOR FURTHER INFORMATION

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

Signed: \_\_\_\_\_ Print Name: REBECCA HEIM  
Title: SR. REGULATORY ANALYST Date: \_\_\_\_\_ Email: rscdjpostdrill@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: \_\_\_\_\_ Date: \_\_\_\_\_

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: \_\_\_\_\_

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400861266	WELLBORE DIAGRAM
400861267	PROPOSED PLUGGING PROCEDURE

Total Attach: 2 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)