

Document Number:  
400613117

Date Received:  
05/22/2014

**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: REBECCA HEIM

Name of Operator: KERR MCGEE OIL & 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: JOHNSON, RANDELL Tel: (303) 815-9641

**COGCC contact:** Email: randell.johnson@state.co.us

API Number 05-123-09779-00

Well Name: CARL ADLER GAS UNIT B Well Number: 2

Location: QtrQtr: SWNW Section: 2 Township: 2N Range: 68W 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: 40.170955 Longitude: -104.975953

GPS Data:  
Date of Measurement: 12/16/2006 PDOP Reading: 1.8 GPS Instrument Operator's Name: Chris Fisher

Reason for Abandonment:  Dry     Production for 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: Damaged csg below 7040'-could not get deeper. See ops report 3/1/2010-3/15/2010. Probable parted casing after CIBP set @7230' and squeeze cementing of Nio carried out.

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
NIOBRARA	7040	7041			
CODELL	7308	7324		BRIDGE PLUG	7230
J SAND	7748	7772		BRIDGE PLUG	7230

Total: 3 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	417	350	417	0	VISU
1ST	7+7/8	4+1/2	10.5	7,885	200	7,885	7,064	CALC
S.C. 1.2	7+7/8	4+1/2	10.5	7,885	150	7,000	6,450	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 60 sks cmt from 6970 ft. to 6570 ft. Plug Type: CASING Plug Tagged:   
 Set 350 sks cmt from 910 ft. to 225 ft. Plug Type: STUB PLUG 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 4440 ft. with 560 sacks. Leave at least 100 ft. in casing 3870 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 350 sacks half in. half out surface casing from 910 ft. to 225 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. Note: Production Casing = 4-1/2" OD, 10.5#/ft, K-55; Production Hole Drilled @ 7-7/8".
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. Notify IOC when rig mobilizes to location to generate workorder for flowline removal & one call for line locates.
4. Prepare location for base beam equipped rig.
5. MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
6. Notify cementers to be on call. Provide volumes listed below:
  - 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)
  - SX Suicide Plug: 560 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 (510 sx for 13" OH + 20% excess and 50 sx 4-1/2" casing, no excess).
  - Stub Plug: 350 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (100' in 4-1/2" prod casing, 383' in 13" OH + 20% excess, and 202' in 8 5/8" surface casing).
7. TOOH 2 3/8 " production tubing.
8. PU 1-2 joints of 2-3/8 tbg as tail, Arrowset AS-1X packer rated to 10,000 psi, and remaining 2-3/8" tbg to surface.
9. Set packer at 6950' and land tbg at 7005'.
10. Pressure test above and below packer to 1,000 psi for 15 minutes. If both pressure tests do not hold, contact engineering. If both pressure tests hold, then TOOH and proceed to next step.
11. RIH to 6970' w/ 2-3/8 " tubing while hydrotesting to 3,000 psi.
12. 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 from 6970' – 7570'.
13. PUH 9 stands. Circulate 95 bbls water containing biocide to clear tubing. Then, TOOH.
14. WOC 4 hours. Tag Cement. Cement top needs to be at or above 6570'; Proceed assuming TOC is above 6570'. Otherwise, call production engineer.
15. RU Wireline. PU 2 - 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120deg phasing. Shoot 1' of squeeze holes at 4440' and 3840'.
16. PU CICR. RIH and set at approximately 30' below the top perf pending collar locator on CBL. RDWL
17. RIH w/stinger on 2-3/8" tubing.
18. RU Cementers. Pump 5 bbl water w/biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
19. Pump Suicide SX: 560 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 between perfs and in casing. Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.
20. PUH 5 stands. Circulate 50 bbls water containing biocide to clear tubing. Then, TOOH and SB remainder of tbg.
21. RU WL. Shoot off casing at or below 810'. RDMO WL. Circulate a full circulation with water containing biocide to remove any gas.
22. NDBOP, NDTH.
23. Install BOP on casing head with 4-1/2" pipe rams.
24. TOOH with 4-1/2" casing, LD.
25. TIH with 2-3/8 " tubing to 910'.
26. RU Cementers. Spot Stub Plug: 350 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx.
27. Circulate 5 bbls water containing biocide to clear tubing.
28. TOOH. WOC 4 hrs. Tag Cement. Cement top needs to be above 227'; Proceed assuming TOC is above 227'. Otherwise, call production engineer.
29. MIRU WL. RIH 8-5/8" CIBP to 80'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
30. 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.

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: 5/22/2014 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: SCHLAGENHAUF, MARK Date: 5/27/2014

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 11/26/2014

<b>COA Type</b>	<b>Description</b>
	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 910' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 367' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400613117	FORM 6 INTENT SUBMITTED
400613127	PROPOSED PLUGGING PROCEDURE
400613128	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Reports dated 3/14/1980 & 3/22/1996.	5/23/2014 10:54:41 AM

Total: 1 comment(s)