

Document Number:  
400702093

Date Received:  
10/06/2014

**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 05-123-20112-00

Well Name: IMPERIAL Well Number: 15-31

Location: QtrQtr: NWNE Section: 15 Township: 1N 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: 40.057160 Longitude: -104.987050

GPS Data:  
Date of Measurement: 04/02/2007 PDOP Reading: 2.6 GPS Instrument Operator's Name: Paul Tappy

Reason for Abandonment:  Dry  Production for Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 1280

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	7840	7858			

Total: 1 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	807	570	807	0	CALC
1ST	7+7/8	4+1/2	11.6	7,957	375	7,957	4,170	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7750 with 45 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 45 sks cmt from 7750 ft. to 7075 ft. Plug Type: CASING Plug Tagged:   
Set 35 sks cmt from 4850 ft. to 4440 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 235 sacks half in. half out surface casing from 1380 ft. to 607 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:

5 MIRU WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.  
 6 Unland 2-3/8" tbg (245 total joints landed at 7788') and TOO H standing back all 2-3/8" tubing.  
 7 MIRU wireline. RIH with junk basket/gauge ring (4-1/2" 11.6#) to 7800'. POOH. PU and RIH with CIBP (4-1/2", 11.6#) to set at 7750' (collars at 7726' & 7766'). POOH. RDMO wireline.  
 8 MIRU hydrotester. Hydrotest 2-3/8" tubing to 3000psi while TIH open ended. Tag CIBP set at 7750'. PUH just above CIBP and circulate all gas out of the hole. Pumping water with biocide, pressure test the CIBP and production casing to 1000psi for 15 minutes. If pressure test passes, proceed to next step; otherwise contact engineering.  
 9 MIRU cementing services. Establish circulation with water and pump 45 sx Class "G" cement with 20% silica flour, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.38 cuft/sx (cement volumes based on 4-1/2" 11.6# casing capacity from 7750' to 7075' with no excess). Displace cement to estimated TOC at 7030' using approx. 27 bbls water. TOO H and stand back 15 stands of 2-3/8" tubing so EOT at +/- 6830'. Reverse circulate using approx. 53 bbls water (2 times tubing volume) or until returns are clean. RDMO cementing services.  
 10 TOO H and land 2-3/8" EOT at 4850'. LD extra tubing.  
 11 MIRU cementing services. Establish circulation with water and pump 20 bbls sodium metasilicate followed by 35 sx Class "G" cement with 0.25 pps cello flake, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.15 cuft/sx (cement volumes based on 4-1/2" 11.6# casing capacity from 4850' to 4440'). Displace cement to estimate TOC at 4380' using 17 bbls water. TOO H and stand back 11 stands of 2-3/8" tubing so EOT at +/- 4180'. Reverse circulate using approx. 32 bbls water (2 times tubing volume) or until returns are clean. RDMO cementing services. WOC to set up per cementing company recommendation.  
 12 TOO H and stand back 1380' of 2-3/8" tubing and LD extra tubing.  
 13 MIRU wireline. RIH to tag cement plug @ +/- 4380'. If cement is not above 4440' contact engineer, otherwise proceed to next step.  
 14 RIH and jet cut 4-1/2" production casing at 1280'. RDMO wireline. Circulate bottoms up and continue circulating to remove any gas from wellbore.  
 15 ND BOP. Install BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.  
 16 TOO H and LD 1280' of 4-1/2" casing.  
 17 TIH w/ 2-3/8" tubing open ended to 1380' (100' inside the 4-1/2" stub).  
 18 MIRU cementing services. Establish circulation with water and pump 10 bbls SAPP mud flush, 20 bbls fresh water spacer, then balanced stub plug using 235 sx Type III cement with cello flake and CaCl<sub>2</sub> as necessary, mixed at 14.8 ppg and 1.33 cuft/sx (cement volumes based on 100' inside 4-1/2" casing, 473' in 8" hole with 40% excess, and 200' in 8-5/8" surface casing). RDMO cementing services.  
 19 TOO H and LD 2-3/8" tubing until EOT at +/- 200'. Circulate down tubing and up surface casing/tubing annulus until returns are clean to ensure CIBP can be set in clean surface casing. Finish TOO H and LD 2-3/8" tubing. WOC to set up per cementing company recommendation.  
 Imperial 15-31: Plug & Abandonment  
 20 MIRU wireline. RIH to tag cement plug at +/- 600'. If cement is not above 607' contact engineer, otherwise proceed to next step.  
 21 PU and RIH with CIBP (8-5/8", 24#/ft). Set CIBP at 80' and pressure test the CIBP to 1000psi for 15mins. If pressure test fails contact engineering, otherwise proceed to next step.  
 22 RDMO wireline. RDMO WO rig.  
 23 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hours of completion of 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.

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: 10/6/2014 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: 11/3/2014

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 5/2/2015

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 1380' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 757' 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.

## Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400702093	FORM 6 INTENT SUBMITTED
400702097	PROPOSED PLUGGING PROCEDURE
400702098	WELLBORE DIAGRAM

Total Attach: 3 Files

## General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 3/1/2001.	10/21/2014 1:28:21 PM

Total: 1 comment(s)