

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:

400788893

Date Received:

02/10/2015

## 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: Montoya, John

Tel: (970) 397-4124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-123-25923-00

Well Name: SUPERIOR XX

Well Number: 17-19

Location: QtrQtr: NWNW Section: 17 Township: 1N Range: 65W 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: 40.055466

Longitude: -104.692750

GPS Data:

Date of Measurement: 07/13/2007

PDOP Reading: 2.3

GPS Instrument Operator's Name: BRIAN DEROSE

Reason for Abandonment:

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

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 1600

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
DAKOTA	7988	8047			

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	1,078	517	1,078	0	VISU
1ST	7+7/8	4+1/2	11.6	8,160	770	8,160	3,926	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7930 with 90 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 90 sks cmt from 7930 ft. to 6560 ft. Plug Type: CASING Plug Tagged: ☐  
Set 35 sks cmt from 4720 ft. to 4300 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 270 sacks half in. half out surface casing from 1700 ft. to 650 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 (257 total joints landed at 7969') 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 7980'. POOH. PU and RIH with CIBP (4-1/2", 11.6#) to set at 7930' (collars at 7902' & 7944'). POOH. RDMO wireline.  
 8 MIRU hydrotester. Hydrotest 2-3/8" tubing to 3000psi while TIH open ended. Tag CIBP set at 7930'. 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 90 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 7930' to 6560' with no excess). Displace cement to estimated TOC at 6500' using approx. 25 bbls water. TOO H and stand back 2-3/8" tubing so EOT at +/- 6300'. Reverse circulate using approx. 50 bbls water (2 times tubing volume) or until returns are clean.  
 10 TOO H and land EOT at 4720'. LD extra tubing.  
 11 MIRU cementing services. Establish circulation with water and pump 35 sx Class "G" cement with 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 4720' to 4300' with no excess). Displace cement to estimate TOC at 4250' using 16 bbls water. TOO H and stand back 2-3/8" tubing so EOT at +/- 4050'. 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 PU and TIH with 2-3/8" tubing to tag cement plug at +/- 4250'. If cement is not above 4300' contact engineer, otherwise proceed to next step.  
 13 TOO H and stand back 1700' of 2-3/8" tubing. LD extra tubing.  
 14 MIRU wireline. RIH and jet cut 4-1/2" production casing at 1600'. 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 1600' of 4-1/2" casing. Install 2-3/8" pipe rams.  
 17 TIH w/ 2-3/8" tubing open ended to 1700' (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 270 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" 11.6# casing, 522' in 9" hole with 20% excess, and 200' in 8-5/8" 24# 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.  
 20 PU and TIH with 2-3/8" tubing to tag cement plug at 870'. If cement is not above 870' contact engineer, otherwise proceed to next step.  
 21 TOO H and LD all 2-3/8" tubing.  
 22 MIRU wireline. 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.  
 23 RDMO wireline. RDMO WO rig.  
 24 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.  
 25 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.  
 26 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.  
 27 Excavate hole around surface casing e

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: 2/10/2015 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: 3/13/2015

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 9/12/2015

COA Type	Description
	<p>Note change in 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) If unable to pull casing contact COGCC for plugging modifications.</li> <li>3) For 1700' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 650' or shallower to isolate Laramie Fox Hills aquifer from Lower Arapahoe aquifer. Increase cement volumes accordingly.</li> <li>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>

## **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400788893	FORM 6 INTENT SUBMITTED
400788896	PROPOSED PLUGGING PROCEDURE
400788898	WELLBORE DIAGRAM

Total Attach: 3 Files

## **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Permit	Well Completion Report dated 3/15/2010.	2/20/2015 9:25:10 AM

Total: 1 comment(s)