

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:

400834234

Date Received:

05/01/2015

## 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: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-24636-00

Well Name: PSC

Well Number: 32-2

Location: QtrQtr: NWSW Section: 2 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: 40.253130

Longitude: -104.864830

GPS Data:

Date of Measurement: 05/20/2007

PDOP Reading: 2.0

GPS Instrument Operator's Name: STEVE FISCHER

Reason for Abandonment: ☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 850

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	7184	7204			
NIOBRARA	6904	7070			

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	721	510	705	0	VISU
1ST	7+7/8	4+1/2	11.6	7,342	535	7,342	3,350	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6840 with 25 sacks cmt on top. CIPB #2: Depth 80 with 25 sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIPB #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 25 sks cmt from 6840 ft. to 6490 ft. Plug Type: CASING Plug Tagged: ☐  
Set 35 sks cmt from 4260 ft. to 3850 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 115 sacks half in. half out surface casing from 950 ft. to 620 ft. Plug Tagged: ☒

Set \_\_\_\_\_ 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:

7 MIRU WO rig. Circulate and kill well with fresh water and biocide. ND WH, NU BOP.  
 8 PU tbq to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,360 lb. LD landing jt. TOOH with 2-3/8" tbq.  
 9 Notify cementers of the needed volumes: 25 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (Niobrara plug); 35 sx of 0:1:0 Class G cement with 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk (Sussex plug); 115 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl<sub>2</sub> mixed at 14.8 ppg and 1.33 cf/sk (Fox Hills stub plug).  
 10 MIRU WL. RIH gauge ring for 4-1/2" 11.6# csg to 6850'.  
 11 RIH with 4-1/2" CIBP (4-1/2" 11.6#). Set CIBP at +/- 6840' (Collars at 6824' and 6855') RDMO WL.  
 12 RIH with 2-3/8" tbq while hydrotesting to 3000 psi and tag CIBP at 6840'. PU and circulate to remove gas from hole. Pressure test CIBP to 1000 psi for 15 minutes. If pressure test passes, proceed; otherwise, contact engineering.  
 13 MIRU cement company. Spot 25 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (cement from 6840' to 6490' in 4-1/2" csg).  
 14 PUH to 6200'. Circulate fresh water with biocide to clear tbq and remove gas from hole.  
 15 PUH to 4260' with 2-3/8" tbq and LD remainder.  
 16 MIRU cement company. Spot 35 sx of 0:1:0 Class G cement with 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk (cement from 4260' to 3850' in 4-1/2" csg).  
 17 PUH to 3600' and circulate fresh water with biocide to clear tbq. WOC to set up per cementing company recommendation.  
 18 PU & TIH with 2-3/8" tubing and tag cement plug at 3850'. If cement plug is not at 3850', contact engineering.  
 19 TOOH. Stand back 950' of tbq and LD remainder.  
 20 MIRU WL. PU jet cutter and RIH to 850', cut 4-1/2" csg. Circulate to remove any gas and old mud from wellbore. RDMO WL.  
 21 ND BOP, ND tbq head. NU BOP on surface csg with 4-1/2" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.  
 22 TOOH with 4-1/2" csg and LD.  
 23 Uninstall 4-1/2" pipe rams on BOP and install 2-3/8" pipe rams.  
 24 TIH with 2-3/8" tbq to +/- 950', 100' inside 4-1/2" csg stub.  
 25 MIRU cement company. Establish circulation with fresh water and biocide. Pump 10 bbls SAPP, 20 bbls fresh water and biocide followed with 115 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl<sub>2</sub> mixed at 14.8 ppg and 1.33 cf/sk (cement from 950' to 520', assuming 8.5" avg hole from nearest SX caliper, adding 40% excess).  
 26 TOOH with 2-3/8" tbq. WOC 4 hrs, tag plug. Tag needs to be 620' or higher. TOOH.  
 27 MIRU WL. RIH with 8-5/8" CIBP and set at 80'. Pressure test to 1000 psi for 15 min. If pressure holds, RDMO WL and RDMO WO rig.  
 28 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.  
 29 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.  
 30 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.  
 31 Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.  
 32 Welder cut 8-5/8" casing minimum 5' below ground level.  
 33 MIRU Redi Cement mixer. Use 4500 psi compressive strength cement, (NO gravel) to fill stubout.  
 34 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.  
 35 Properly abandon flowlines per Rule 1103.  
 36 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.  
 37 Back fill hole with f

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: 5/1/2015 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: 6/19/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 12/18/2015

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 950' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 671' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

### Attachment Check List

**Att Doc Num****Name**

400834234	FORM 6 INTENT SUBMITTED
400834237	PROPOSED PLUGGING PROCEDURE
400834238	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

**User Group****Comment****Comment Date**

Permit	Well Completion Report dated 8/8/2007. Permitting Review Complete.	5/6/2015 9:33:47 AM
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Total: 1 comment(s)