

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:

400476811

Date Received:

09/05/2013

## 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: PRECUP, JIM

Tel: (303) 726-3822

COGCC contact:

Email: james.precup@state.co.us

API Number 05-123-10281-00

Well Name: DONALD K NORGREN UNIT E

Well Number: 2

Location: QtrQtr: SWNW Section: 1 Township: 2N 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: 40.170130

Longitude: -104.844350

GPS Data:

Date of Measurement: 07/18/2008

PDOP Reading:

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: 804

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
J SAND	7774	7830			

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	704	500	704	0	VISU
1ST	7+7/8	4+1/2	11.6	7,970	200	7,970	6,679	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7710 with 2 sacks cmt on top. CIBP #2: Depth 100 with 30 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 \_\_\_\_\_ 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: ☐  
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 7090 ft. with 135 sacks. Leave at least 100 ft. in casing 6750 CICR Depth

Perforate and squeeze at 5020 ft. with 525 sacks. Leave at least 100 ft. in casing 4120 CICR Depth

Perforate and squeeze at \_\_\_\_\_ ft. with \_\_\_\_\_ sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 90 sacks half in. half out surface casing from 904 ft. to 504 ft. Plug Tagged: ☒

Set 30 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:

**NORGREN DONALD "E" #2**

1 Remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence.  
2 MIRU slickline services and VES. Pull bumper spring, tag bottom and run gyro survey from 7900' to surface with stops every 100'.  
3 Provide notice of MIRU to COGCC field inspector as specified in approved Form 6.  
4 Notify IOC when rig mobilizes to location to generate workorder for flowline removal and one call for line locates.  
5 Prepare location for base beam equipped rig.  
6 MIRU, kill as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.  
7 Notify cementers to be on call. Provide volumes (135 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk (9.5"+20% Caliper Log in file), 525 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 (10"+20% Caliper Log in file); 90 sx Type III CaCl<sub>2</sub> cement mixed at 14.0 ppg and 1.53 cf/sx (7.875+60%)).  
8 TOO H 2 3/8" production tubing. Stand back.  
9 MIRU WL. RUN CBL from TD to surface. Contact production engineer if cement is found shallower than 7200'. Confirm all CIBP, CIGR, perforation and casing cut depths with CBL.  
10 RIH gauge ring for 4.5" 11.6#/ft csg to 7750'.  
11 RIH CIBP, set at 7710'. PT CIBP to 1000 psi. PU dump bailer, dump bail 2 sx class "G" cement on CIBP. RD WL  
12 RU WL. PU 1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 7090'. RD WL.  
13 PU CIGR on production tubing. TIH to 6750' hydrotesting tubing in to 3000 psi. Roll hole using water containing biocide.  
14 Set CIGR at 6750'. Initiate circulation through CIGR using water containing biocide. Note rate and pressure.  
15 RU cement services.  
16 Pump 135 sx 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cf/sk. Underdisplace by 3 bbls, unsting from retainer and dump remaining 3 bbls on top of CIGR.  
17 PUH 6 stands. Circulate 105 BBL water containing biocide to clear tubing.  
18 Place 9.0 ppg mud containing biocide from 6390' to 5020' (~22BBL). TOO H  
19 RU WL. PU 2-1' 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 5020' and at 4060'. RD WL.  
20 PU CIGR on production tubing and set at 4120'. Initiate circulation through CIGR using water containing biocide. Note rate and pressure.  
21 RU cement services.  
22 Pump 525 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 cuft/sx. Underdisplace by 3 bbls, unsting from retainer and dump remaining on top of CIGR.  
23 PUH 6 stands. Circulate 60 BBL water containing biocide to clear tubing.  
24 Place 9.0 ppg mud containing biocide from 3760' to 904' (~46BBL).  
25 P&SB 904' tbg. LD remainder.  
26 RU WL. Crack coupling or shoot off casing at 804'. RDMO WL. Circulate hole using 100 BBL water containing biocide to remove any gas.  
27 NDBOP, NDTH.  
28 NU BOP on casing head, install 4-1/2" pipe rams.  
29 TOO H with 4-1/2" casing, LD.  
30 TIH into csg stub using production tubing to 904'.  
31 Spot 90 SX Type III CaCl<sub>2</sub> cement mixed at 14.0 ppg and 1.53 cuft/sx.  
32 PUH to 350'. Circulate 22 BBLs water containing biocide to clear tubing.  
33 TOO H. WOC 4 hrs.  
34 TIH and tag. If cement is below 504', discuss with production engineer.  
35 Fill casing with 9.0 ppg mud containing biocide from tag to 100'.  
36 MIRU WL. RIH 8-5/8" CIBP to 100'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.  
37 Submit paper copies of all invoices, logs, and reports.  
38 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.  
39 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.  
40 Welder cut 8 5/8" casing minimum 5' below ground level.  
41 MIRU ready cement mixer. Use 4500psi compressive strength cement, (NO gravel) fill stubout.  
42 Weld on steel marker plate.

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: 9/5/2013 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: 10/3/2013

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 4/2/2014

<u>COA Type</u>	<u>Description</u>
	1) Provide 24 hour notice of MIRU to Jim Precup at 303-726-3822 or e-mail at james.precup@state.co.us. 2) Leave at least 100' cement in the casing for each plug. 3) For 904' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 654' or shallower. 4) Properly abandon flowlines as per Rule 1103.

### **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400476811	FORM 6 INTENT SUBMITTED
400476813	PROPOSED PLUGGING PROCEDURE
400476814	WELLBORE DIAGRAM
400476815	WELLBORE DIAGRAM

Total Attach: 4 Files

### **General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well completion report dated 12/22/1981.	3/6/2013 3:03:21 PM

Total: 1 comment(s)