

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:

400828727

Date Received:

04/21/2015

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 & 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 05-123-28000-00

Well Name: PALMER X

Well Number: 20-05

Location: QtrQtr: SWNW Section: 20 Township: 2N 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: 40.126403

Longitude: -104.694380

GPS Data:

Date of Measurement: 02/18/2009

PDOP Reading: 2.8

GPS Instrument Operator's Name: BRIAN DE ROSE

Reason for Abandonment:

☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing 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:

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7312	7323	05/30/2013	BRIDGE PLUG	7265

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	979	333	979	0	VISU
1ST	7+7/8	4+1/2	11.6	7,468	920	7,468	648	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 150 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 <u>40</u> sks cmt from <u>7265</u> ft. to <u>6620</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>45</u> sks cmt from <u>4875</u> ft. to <u>4290</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set <u>45</u> sks cmt from <u>1470</u> ft. to <u>875</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 _____ sacks half in. half out surface casing from _____ ft. to _____ 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 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 automation removal group at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.

2 Existing RBP set in 2013 should be at 7275' with possible sand on top.

3 Prepare location for base beam equipped rig. Install perimeter fence as needed.

4 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. No Form 17 on file.

5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP.

6 Spot tubing trailer with 235 jts (7265') of 2 3/8" workstring.

7 MIRU hydrotester. Hydrotest 2 3/8" tubing down to ~7265'.

8 Pressure test existing RBP to 1000 psi for 15 minutes. Contact Evans Engineering if pressure test does not pass.

9 RU Cementers. Pump Niobrara Balanced Plug: 40 sx (55 cuft) "G" w/ 20% silica flour, 0.4% CD- 32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time, mixed at 15.8 ppg and 1.38 cuft/sx. The plug will cover 7265' to 6620'. Volume based on 645' inside 4 1/2" production casing with no excess.

10 PUH to 6400' and circulate tubing clean to ensure no cement is left in the tubing.

11 PUH to 4875', LD remainder.

12 RU Cementers. Pump Balanced Plug: 45 sx (52 cuft) Class "G" cement with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx. The plug will cover 4875' - 4290'.

13 PUH to 4000' and circulate tubing clean to ensure no cement is left in the tubing.

14 WOC per cement company recommendation. Tag cement. Cement top needs to be above 4290'.

15 PUH to 1470', LD remainder.

16 MIRU Cementers. Pump Balanced Plug: 45 sx (60 cuft) Type III w/ cello flake and CaCl₂ as deemed necessary, mixed at 14.8 ppg and 1.33 cuft/sx (595' in 4 1/2" production casing with no excess). The plug will cover 1470' - 775'. RD cementers.

17 Pull up to 400' and circulate tubing clean using fresh water treated with biocide. TOOH.

18 WOC per cement company recommendation. Tag cement. Cement top needs to be above 879'.

19 MIRU WL. RIH 4 1/2" CIBP to 150'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.

20 Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.

21 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.

22 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

23 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.

24 Welder cut casing minimum 5' below ground level.

25 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

26 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

27 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

28 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.

29 Back fill hole with fill. Clean location, level.

30 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

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: 4/21/2015 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: 6/12/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/11/2015

COA Type	Description
	<p>Note change in plugging procedure:</p> <ol style="list-style-type: none"> 1) Submit wireline and ops reports from 2013 confirming setting of existing RBP @7265' prior to MIRU. 2) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 3) For 1470' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 929' or shallower. 4) Perf @ 175' and circulate cement to surface to fill annulus between 8 5/8" and 4 1/2". Ensure isolation between aquifers as part of this plugging (Laramie Fox Hills 796'-541', Lower Arapahoe 106'-19'). Contact COGCC if prefer to switch to pull casing plugging. 5) 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>
400828727	FORM 6 INTENT SUBMITTED
400828730	PROPOSED PLUGGING PROCEDURE
400828731	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 5/6/2009.	4/27/2015 2:19:52 PM

Total: 1 comment(s)