

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:

400533113

Date Received:

12/30/2013

## 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: MONTOYA, JOHN

Tel: (970) 3974124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-123-10857-00

Well Name: BRACHTENBACH

Well Number: 2

Location: QtrQtr: NENW Section: 32 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: 40.099170

Longitude: -104.692090

GPS Data:

Date of Measurement: 08/25/2007

PDOP Reading: 2.2

GPS Instrument Operator's Name: Steve Fisher

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☐ Mechanical Problems☒ Other Not economical to safety prep for a near by horizontal fracCasing 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
J SAND	7760	7796			

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	228	165	228	0	VISU
1ST	7+7/8	4+1/2	10.5/11.5	7,948	300	7,910	7,130	CBL
S.C. 1.1				7,948	150	922	200	VISU

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7710 with 30 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 30 sks cmt from 7710 ft. to 7130 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: ☐  
Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged: ☐

Perforate and squeeze at 7090 ft. with 250 sacks. Leave at least 100 ft. in casing 6580 CICR Depth

Perforate and squeeze at 4730 ft. with 275 sacks. Leave at least 100 ft. in casing 4760 CICR Depth

Perforate and squeeze at 1200 ft. with 130 sacks. Leave at least 100 ft. in casing 250 CICR Depth

(Cast Iron Cement Retainer Depth)

Set \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Tagged: ☐

Set 15 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:

Perforate and squeeze at 7090 ft. with 250 sacks Leave at least 100 ft. in casing 6580. CICR Depth  
 Perforate and squeeze at 5255&4730 ft. with 275 sacks Leave at least 100 ft. in casing 4760 CICR Depth  
 Perforate and squeeze at 1200 ft. with 130 sacks Leave at least 100 ft. in casing 250 CICR Depth  
 Brachtenbach 2  
 6. MIRU WO rig. Kill well using water and biocide. ND wellhead.NU BOP.  
 8. PUH w/ tbg to break any sand bridges, noting not to exceed the safety tensile load of 2-3/8", 4.7# tbg of 57,384 lbs. (80% of upset joint yield strength).  
 9. TOOH with 2-3/8" tbg and stand back.  
 10. MIRU WL. RIH with Junk Basket/Gauge Ring on WL to ± 7720'. TOOH with Junk Basket/Gauge Ring.  
 11. PU and RIH with CIBP for 4-1/2", 11.6# K-55 csg at 7710' (50' above top JS perfs 7760-7796).POOH. Pressure test plug to 1000 psi for 15 min.MO WL.  
 12. MIRU cementer. Spot a balanced plug 30 sx (1:1:3 'Poz:G:Gel'+20% Silica flour, 0.4% CFL-2 + 0.1% SMS + 0.05% CR-4) of cement (1.66 cuft/sk) from 7130'-7710'. RDMO Cementer.  
 13. RU WL. PU and RIH with CCL and 3-1/8" perf guns and perforate casing at 7090' (20' above existing TOC @7130') with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total. RDMO WL.  
 14. PU and RIH with 4.5" CICR on setting tool and 2-3/8" tubing to set CICR at 6580' (desired TOC 6580') in 4-1/2" casing. Hydrotest to 3000 psi while RIH. Set CICR  
 15. RU cementer. Pump 250 sx (9.5" caliper and 20% excess) of cement(1:1:3 'Poz:G:Gel'+20% Silica flour, 0.4% CFL-2 + 0.1% SMS + 0.05% CR-4) to reach TOC @ 6580'. Underdisplace by 3 bbl, sting out of retainer and place on CICR.  
 16. PUH to 6280' (300' above estimated top of cement) with 2-3/8" tubing and circulate conventionally with drilling mud until no cement returns to surface. RD cementer.  
 17. P & SB tubing for next depth (5255'), LD remainder.  
 18. MIRU WL. RIH with 2-1' x CCL and 3-1/8" perf guns and perforate casing at 5255' (50' below base of Shannon @ 5203') with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total.  
 19. PUH and perf casing at 4730' (230' above top of Sussex @ 4958') with 3 spf, 0.50" EHD, >6.0" penetration, 120 deg phasing, 1' net, 3 shot total. POOH with CCL and perf guns and RDMO WL.  
 20. PU and RIH with 4.5" CICR on setting tool and 2-3/8" tubing to set CICR at 4760' (30' below top perfs) in 4-1/2" casing. Set CICR and establish circulation through squeeze holes at 4730'&5255' and note returns in OpenWells report.  
 21. RU cementer. Once pumping rate has been established, pump 5 bbl water, followed by 20 bbl Sodium Metasilicate ahead of cement, followed by 5 bbl water. Pump 275 sx (11.5" caliper and 40% excess) of cement (1:2:4 'Poz:III:Gel'+3%(BWOW)KCL+1%SMS+0.4%CR-4+0.2%SPC-2+2lb/sk PS Flake) 1.93cuft/sx) from 4730'&5255'. Underdisplace by 3 bbl, sting out of retainer and place on CICR. Note returns during cement job in OpenWells report.  
 22. PUH to 4400' (300' above estimated top of cement) with 2-3/8" tubing and circulate conventionally with drilling mud until no cement returns to surface. RD cementer.  
 23. MIRU WL. Run CBL from 2500' to surface to find existing TOC in wellbore. Forward CBL to a.Leila.Shahryari@anadarko.com .If bottom of cement is shallower than 900' do not proceed with prog and wait on Evans engineer for prog modification.  
 24. PU and RIH with CCL and 3-1/8" perf guns and perforate casing at 1200' (100' below base of Fox Hills 1107') with 3 spf, 0.38" EHD, 33.65" penetration, 120 deg phasing, 1' net, 3 shot total. RDMO WL.  
 25. PU and RIH with 4.5" CICR on setting tool and 2-3/8" tubing to set CICR at 250' in 4-1/2" casing. Set CICR.  
 26. RU cementer. Pump 130 sx (1.46cuft/sx) of cement(Type III + 0.2% SPC-2) to reach TOC @ 250'. Underdisplace by 3 bbl, sting out of retainer and place on CICR. Pressure test CICR to 1000 psi for 15min. (If CICR does not hold contact Evans engineer and do not RDMO WO rig)  
 27. RDMO WO rig.

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: 12/30/2013 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: 1/7/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 7/6/2014

#### COA Type

#### Description

- 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.
- 2) No CBL on file. Submit a CBL to verify the previously cemented interval from 922' to 200'. If not already existing, provide cement from 922' to at least 50' within the surface casing shoe in this annular space (or contact COGCC if switching to pull casing plugging). Adjust cement volumes accordingly.
- 3) Leave at least 100' cement in the wellbore for each plug.
- 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

### **Attachment Check List**

**Att Doc Num**

**Name**

400533113	FORM 6 INTENT SUBMITTED
400533122	PROPOSED PLUGGING PROCEDURE
400533123	WELLBORE DIAGRAM
400533124	WELLBORE DIAGRAM

Total Attach: 4 Files

### **General Comments**

**User Group**

**Comment**

**Comment Date**

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Total: 0 comment(s)