

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:

400797390

Date Received:

02/23/2015

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: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-21604-00

Well Name: PSC

Well Number: 16-4

Location: QtrQtr: SESE Section: 4 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: 40.249400

Longitude: -104.888950

GPS Data:

Date of Measurement: 02/09/2006

PDOP Reading: 2.7

GPS Instrument Operator's Name: Steve Fisher

Reason for Abandonment:

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

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 770

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	7120	7140			
NIOBRARA	6864	6942			

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	550	385	550	0	VISU
1ST	7+7/8	4+1/2	11.6	7,276	495	7,276	3,324	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6810 with 25 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 25 sks cmt from 6810 ft. to 6410 ft. Plug Type: CASING Plug Tagged: ☐
Set 30 sks cmt from 4180 ft. to 3780 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 180 sacks half in. half out surface casing from 870 ft. to 450 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 well service unit, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD. Tbg is landed @ 7099' KB w/ 233 jts.
 6 TOO H and stand back 6810' 2 3/8" tbg. LD remainder.
 7 MIRU WL. RIH gauge ring for 4 1/2" 11.6# casing to 6850'. POH.
 8 RIH 4 1/2" CIBP and set @ 6810' to abandon Codell and Niobrara perms. Presure test CIBP and casing to 1000 psi for 15 minutes. RDWL.
 9 TIH w 2 3/8" tbg open ended to CIBP at 6810'. Hydro -test tbg to 3000 psi.
 10 RU cementers and equalize a balanced plug above CIBP from 6810' to 6410' as follows: 25 sx "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/sk. (35 cuft of slurry).
 11 POH 10 stands and circulate tbg clean using fresh water treated with biocide. POH and LD WS to place EOT to 4180'.
 12 RU cementers and equalize a balanced plug from 4180' to 3780' as follows: 30 sx class "G", w/0.4% CD-32, 0.4% ASA-301, and CaCl2 as deemed appropriate for 4 hour tag mixed at 15.8 ppg and 1.15 cuft/sk (35 cuft of slurry).
 13 POH to ~3000. Circulate water containing biocide to clear tubing. WOC per cementing company recommendation.
 14 Tag cement @ 3780'. POH and stand back 870' of tbg.
 15 RU WL. Crack coupling or cut casing at 770'. Circulate bottoms up and continue circulating to remove any gas from wellbore. RDMO WL.
 16 ND BOP and wellhead. 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.
 17 TOO H and LD 4 1/2" casing. Change pipe rams to 2 3/8".
 18 RIH with 2 3/8" tubing open-ended to 870' (100' inside 4 1/2" stub).
 19 RU cementers. Establish circulation and pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min.) fresh water spacer immediately preceding cement.
 20 Pump balanced Stub Plug: 180 sx Type III w/o .25#/sk cello flake and CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sx (240 cuft of slurry). Cement volume based on 100' in 4 1/2" csg, 200' in 8 5/8" csg, and 220' in 9 1/2" OH + 40% excess.
 21 TOO H. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 450'. If not, consult Evans Engineering.
 22 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
 23 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.
 24 Supervisor submit paper copies of all invoices, logs, and reports to the Evans Engineering Specialist group.
 25 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
 26 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
 27 Welder cut 8 5/8" casing minimum 5' below ground level.
 28 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
 29 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
 30 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
 31 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
 32 Back fill hole with fill. Clean location, level.
 33 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: 2/23/2015 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: 4/3/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 10/2/2015

<u>COA Type</u>	<u>Description</u>
	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 870' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 500' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

Att Doc Num**Name**

400797390	FORM 6 INTENT SUBMITTED
400797402	PROPOSED PLUGGING PROCEDURE
400797405	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

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

Permit	Well Completion Report dated 4/14/2004.	2/25/2015 10:01:58 AM
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Total: 1 comment(s)