FORM 6 Rev 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

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Document Number: 400813393

Date Received: 03/23/2015

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, COGCC contact: Name: Carlile, Craig Tel: (970) 629-8279 Email: craig.carlile@state.co.us

API Number 05-123-16910-00

Well Name: FORT SAINT VRAIN Well Number: 26

Location: QtrQtr: NWSW Section: 3 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: 40.253070 Longitude: -104.883830

GPS Data:

Date of Measurement: 05/19/2006 PDOP Reading: 3.1 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: 820

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	7080	7090			
NIOBRARA	6793	6872			

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	511	420	511	0	VISU
1ST	7+7/8	4+1/2	11.6/12.6	7,221	160	7,221	6,178	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6740 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 6740 ft. to 6340 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 4210 ft. with 180 sacks. Leave at least 100 ft. in casing 3840 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 220 sacks half in. half out surface casing from 920 ft. to 411 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, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD. Tbg is landed @ 7076' KB w/ 223 jts.
6 TOOH and stand back 6740' 2 3/8" tbg. LD remainder.
7 MIRU WL. RIH gauge ring for 4 1/2" 12.6# casing to 6780'. POH.
8 RIH 4 1/2" CIBP and set @ 6740' to abandon Codell and Niobrara perfs. Presure test CIBP and casing to 1000 psi for 15 minutes. RDWL.
9 TIH w 2 3/8" tbg open ended to CIBP at 6740'. Hydro-test tbg to 3000 psi.
10 RU cementers and equalize a cement plug above CIBP from 6740' to 6340' 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. TOOH standing back 3840' of tbg.
12 RUWL. PU 2 - 3-1/8" perf guns with 3 spf, 0.5" dia 120° phasing. Shoot 1' of squeeze holes at 4210' and 2' of squeeze holes at 3810'. RDWL.
13 PU CICR on 2 3/8" tbg. RIH and set CICR at 3840'.
14 RU Cementers. Establish circulation and pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
15 Pump Sussex suicide squeeze: 180 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/sk (207 cuft of slurry) to place cement between perfs. Underdisplace and sting out of CICR to leave 3 bbls cement on top of retainer. Cement volume based on 9" hole with 20% excess. Caliper log on file.
16 POH 15 stands. Circulate water containing biocide to clear tubing. POH standing back 920' of tbg.
17 RU WL. Crack coupling or cut casing at 820'. RDMO WL. Circulate bottoms up and continue circulating to remove any gas from wellbore.
18 ND BOP and tubing head. 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.
19 TOOH and LD 4 1/2" casing. Change pipe rams to 2 3/8".
20 RIH with 2 3/8" tubing open-ended to 920' (100' inside 4 1/2" stub).
21 RU cementers. Establish circulation with water and pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min.) fresh water spacer immediately preceding cement.
22 Pump balanced Stub Plug 920'-311' : 220 sx Type III w/0 .25#/sk cello flake and CaCl2 as deemed necessary for 4 hour tag mixed at 14.8 ppg and 1.33 cf/sx (293 cuft of slurry). Cement volume based on 100' in 4 1/2" csg, 200' in 8 5/8" csg, and 309' in 9.0" OH + 40% excess.
23 TOOH. WOC per cementing company recommendation. Tag Cement. TOC should be at or above 411'. If not, consult Evans Engineering.
24 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.
25 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.
26 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
27 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
28 Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
29 Welder cut 8 5/8" casing minimum 5' below ground level.
30 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
31 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
32 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
33 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
34 Back fill hole with fill. Clean location, level.
35 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.
COA Requirement/ Bradenhead/Casing Integrity 8/15/2015
Gyro date 8/30/2013

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: 3/23/2015 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: 4/2/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 10/1/2015

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 920' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 370’ or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400813393	FORM 6 INTENT SUBMITTED
400813395	PROPOSED PLUGGING PROCEDURE
400813396	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Reports dated 4/29/1993 & 3/27/1995.	3/24/2015 12:42:13 PM

Total: 1 comment(s)