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: 400733414

Date Received: 11/17/2014

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 05-123-17928-00

Well Name: HSR-FRED MAYER Well Number: 6-15

Location: QtrQtr: SENW Section: 15 Township: 3N Range: 67W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 61414

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: 40.227390 Longitude: -104.879220

GPS Data:

Date of Measurement: 09/01/2006 PDOP Reading: 6.0 GPS Instrument Operator's Name: PETROLEUM FIELD

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 950

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	7092	7102			
NIOBRARA	6882	6884			

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	620	430	620	0	VISU
1ST	7+7/8	4+1/2	11.6	7,206	200	7,206	5,996	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6810 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 6810 ft. to 6410 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 4780 ft. with 460 sacks. Leave at least 100 ft. in casing 3950 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 1050 ft. to 420 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:

Perforate and squeeze at 4780/3920 ft. with 460 sacks Leave at least 100 ft. in casing 3950 CICR Depth
5. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
6. Notify cementers to be on call. Provide volumes listed below:
6.1 Niobrara plug: 25 sx (35 cu-ft) "G" w/silica flour, 0.4% CD-32, 0.4 ASA-301 and R-3 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.38 cu-ft/sk. Cement volume based on 400' in 4 ½" casing.
6.2 Sussex suicide: 460 sx (529 cu-ft) "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk. Cement volume based on 860' in a 10" OH annulus with 20% and 1020' in 4 ½" production casing. Caliper on file.
6.3 Foxhills plug: 220 sx (293 cu-ft) Type III w/cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk. Cement volume based on 100' in 9" OH annulus with 20% excess, 320' in 9" OH with 20% excess and 200' in 8 5/8" casing. Caliper on file.
7. TOOH 226 joints of 2 3/8" tubing landed at 7060'. Stand back tubing.
8. MIRU WL. PU 4 ½" 11.6# gauge ring and RIH to 6840'. POOH.
9. PU 4 ½" 11.6# CIBP, RIH and set at +/-6810' to abandon Codell and Niobrara perfs. PT to 1000 psi. RD wireline.
10. RIH with 2 3/8" production tubing to +/- 6810'. Tag CIBP and PUH 5'. Hydrotest tubing to 3000 psi while RIH.
11. RU cementers. Pump Niobrara plug: 25 sx (35 cu-ft) "G" w/silica flour, 0.4% CD-32, 0.4 ASA-301 and R-3 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.38 cu-ft/sk. Plug to cover 6810'-6410'.
12. PUH to ~6000'. Circulate with water containing biocide to displace cement and clear tubing.
13. P&SB 3950', LD remainder.
14. PU two 3 1/8" perf guns with 3 spf, 120 degree phasing, and 0.59" EHD. Shoot 1' of squeeze perfs at 4780' and 3920'.
15. PU CIRC and RIH on 2 3/8" tubing, set at ~3950' per CCL. Establish circulation with fresh water containing biocide.
16. RU cementers. Precede cement with 5 bbl water w/biocide, 20 bbl sodium metasilicate, and another 5 bbl water spacer.
17. Pump Sussex suicide: 460 sx (529 cu-ft) "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk to place cement between perfs from 4780' to 3920'. Under displace and sting out of CICR to leave 3 bbls on top of retainer. Plug to cover from 4780' to 3920' in a 10" OH annulus with 20 % excess and from 4780' to 3760' in 4 ½" casing. RD cementers.
18. PUH to ~3300'. Circulate with water containing biocide to displace cement and clear tubing.
19. P&SB 1050' of tubing, LD remainder.
20. RU WL. Shoot off casing at or below 950'. RD WL.
21. Circulate casing with water containing biocide to remove any excess gas.
22. NDBOP, NDTH. Install BOP on casing head with 4 ½" pipe rams.
23. TOOH 4 ½" casing, LD. Replace 2 3/8" pipe rams.
24. RIH with 2 3/8" tubing to +/- 1050'.
25. RU cementers. Precede cement with 10 bbl SAPP and a 20 bbl (minimum) fresh water spacer.
26. Pump Foxhills plug: 220 sx (293 cu-ft) Type III w/cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk. RD cementers. Plug to cover from 1050'-950' in a 9" OH annulus with 20% excess, 950'-620' in 9" OH with 20% excess, and 620'-420' in 8 5/8" casing. Caliper on file. l
27. PUH to 100'. Circulate with water containing biocide to displace cement and clear tubing.
28. TOOH and WOC per cement company recommendations.
29. Tag cement at or above 420'. If not, consult with Evans Engineering.
30. RU WL. PU 8 5/8" 24# CIBP and RIH to 80'. Set and PT to 1000 psi for 15 minutes. If tests, RDMO WL and WO rig.
31. Instruct cementing and wireline contractors to email copies of all job logs/jobs summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
32. Supervisor is to submit paper copies of all invoices, logs, and reports to Joleen Kramer.
33. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
34. Excavate hole around surface casing enough

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: 11/17/2014 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: 3/2/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/1/2015

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 1050' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 570' 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
400733414	FORM 6 INTENT SUBMITTED
400733421	PROPOSED PLUGGING PROCEDURE
400733423	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 5/06/1994.	11/24/2014 1:16:23 PM

Total: 1 comment(s)