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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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 05-123-18130-00

Well Name: HSR-B/R "C" Well Number: 1-29

Location: QtrQtr: NENE Section: 29 Township: 3N Range: 67W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 61821

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: 40.201870 Longitude: -104.906380

GPS Data:

Date of Measurement: 02/22/2006 PDOP Reading: 2.4 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: 920

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	7125	7135			
NIOBRARA	6911	6914			

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	592	487	592	0	VISU
1ST	7+7/8	2+7/8	6.5	7,277	200	7,275	6,164	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6860 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 6860 ft. to 5800 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 4230 ft. with 250 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 270 sacks half in. half out surface casing from 920 ft. to 390 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:

6. MIRU, kill well as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
7. Notify cementers to be on call. Provide volumes listed below:
7.1 Niobrara Plug: 34 cu ft/25 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk (1060' inside 2-7/8" Casing, no excess)
7.2 SX Wiper Plug: 287 cu ft/250 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 cf/sx (400' in 10.5" OH + 20% excess and 400' inside 2-7/8" casing, no excess).
7.3 Stub Plug: 359 cu ft/270 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (328' in 10.5" OH + 40% excess, and 200' in 8 5/8" surface casing).
8. TOOH 1.66" OD production tubing.
9. MIRU WL. RIH gauge ring for 2-7/8" 6.5#/ft casing to 6900'. POOH.
10. RIH CIBP w/ WL. Set at +/- 6860'. Pressure test CIBP to 2500 psi.
11. Run CBL from 6860' to surface to verify that there is no Sussex and surface cement. Send results to Tyler.Davis@anadarko.com and Brent.Marchant@anadarko.com. Note: It is important to get a good quality CBL. It may be necessary to circulate from just above CIBP to surface in order to get gas out of the hole.
12. RIH to 6860' with 1.66" OD tbg hydrotesting to 3000 psi.
13. RU Cementers. Pump Niobrara Plug: 34 cu ft/25 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk to place cement in 2-7/8" production casing from 6860' to 5800'.
14. PUH to 5800'. Circulate 40 bbls water containing biocide to clear tubing. Then, TOOH.
15. MIRU WL. PU 1-11/16" perf gun with 6 spf, 0.37 EHD. Shoot 1' of squeeze holes at 4230'. RDMO WL.
16. Establish circulation down 2-7/8" and out 8-5/8" surface casing. RU Cementers. Pump: 287 cu ft/250 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 cf/sx to squeeze cement into annulus and place in casing from 4230' to 3830' (10.5" OH + 20% excess). Follow w/wiper plug and displace to 3830'.
17. WOC 4 hrs. RUWL, RIH w/sinker bars and tag TOC. POOH. Notify engineering if tag depth is deeper than 3830'.
18. Shoot off casing at or below 920'. RDMO WL. PUH 5' and circulate water containing biocide to remove any gas.
19. NDBOP, NDTH.
20. Install BOP on casing head with 2-7/8" pipe rams.
21. If PT passed from step 9, plan on using 2-7/8" as a WS and LD 1.66" tbg. If PT failed, pull 2-7/8" casing and hydrotest 2-7/8" back in hole.
22. RU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Pump Stub Plug: 359 cu ft/ 270 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 920' to 390' (10.5" OH + 40% excess).
23. PUH to ~200' with 2-7/8" casing. Circulate 15 bbls water containing biocide to clear cement.
24. TOOH 2-7/8" csg. WOC 4 hrs.
25. RIH w/ 2-7/8" csg and tag Cement. Cement top needs to be above 390'; Proceed assuming TOC is above 390'. Otherwise, call production engineer.
26. MIRU WL. RIH 8 5/8" CIBP to 80'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
27. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.
28. Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
29. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
30. Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
31. Welder cut 8 5/8" casing minimum 5' below ground level.
32. MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.
33. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
34. Properly abandon flowlines per Rule 1103.

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: 10/21/2014 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: 11/19/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 5/18/2015

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 542' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name

Total Attach: 0 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 9/16/1994.	10/29/2014 2:16:30 PM

Total: 1 comment(s)