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

DE	ET	OE	ES

Document Number: 400698921

Date Received: 09/30/2014

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 05-123-18281-00

Well Name: HSR-LLOYD CAMP Well Number: 14-31

Location: QtrQtr: SESW Section: 31 Township: 3N 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: 40.176506 Longitude: -104.708689

GPS Data:

Date of Measurement: 04/24/2008 PDOP Reading: 1.9 GPS Instrument Operator's Name: Cody Mattson

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

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 1460

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	7328	7332			
NIOBRARA	7098	7101			

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	791	550	791	0	VISU
1ST	7+7/8	2+7/8	6.5	7,457	175	7,457	6,490	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7020 with 10 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 _____ 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: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 4560 ft. with 210 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 380 sacks half in. half out surface casing from 1460 ft. to 590 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: 13 cu ft/10 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 (400' inside 2-7/8" Casing, no excess)
7.2 SX Wiper Plug: 241 cu ft/210 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 9" OH + 20% excess and 400' inside 2-7/8" casing, no excess).
7.3 Stub Plug: 505 cu ft/380 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (669' in 9" OH + 40% excess, and 201' 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 7090'. POOH.
10. RIH CIBP w/ WL. Set at +/- 7020'. Pressure test CIBP to 1000 psi.
11. Run CBL from 7020' to surface. 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 7020' with 1.66" OD tbg hydrotesting to 3000 psi.
13. RU Cementers. Pump Niobrara Plug: 10 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 7020' to 6620'.
14. PUH to 6400'. Circulate 40 bbls water containing biocide to clear tubing. Then, TOOH.
15. MIRU WL. PU 2" RTG perf gun with 3 spf, 0.5" dia 120deg phasing. Shoot 1' of squeeze holes at 4560'. RDMO WL.
16. Establish circulation down 2-7/8" and out 8-5/8" surface casing. RU Cementers. Pump: 241 cu ft/210 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 4560' to 4160' (9" OH + 20% excess). Follow w/wiper plug and displace to 4160'.
17. WOC 4 hrs and tag TOC. Notify engineering if tag depth is deeper than 4160'.
18. PT down the 2-7/8" to 2500 psi. If PT passes, plan on using 2-7/8" as a WS and LD 1.66" tbg. If PT fails, plan on using 1.66" as WS.
19. RU WL. Shoot off casing at or below 1460'. RDMO WL. PUH 5' and circulate water containing biocide to remove any gas.
20. NDBOP, NDTH.
21. Install BOP on casing head with 2-7/8" pipe rams.
22. RU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Pump Stub Plug: 505 cu ft/ 380 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 1460' to 590'.
23. PUH to ~300' with 2-7/8" casing. Circulate 20 bbls water containing biocide to clear cement.
24. TOOH 2-7/8" csg. WOC 4 hrs.
25. Tag Cement. Cement top needs to be above 590'; Proceed assuming TOC is above 590'. 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.
35. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
36. Back fill hole with fill. Clean location, level.
37. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD.

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: 9/30/2014 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: 10/20/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 4/19/2015

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 1460' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 741’ 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
400698921	FORM 6 INTENT SUBMITTED
400698924	PROPOSED PLUGGING PROCEDURE
400698925	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 10/11/1994.	10/16/2014 10:21:47 AM

Total: 1 comment(s)