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: 400740627

Date Received: 11/25/2014

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: Precup, Jim Tel: (303) 726-3822 Email: james.precup@state.co.us

API Number 05-123-17511-00

Well Name: CARLSON V Well Number: 11-8

Location: QtrQtr: SENE Section: 11 Township: 2N 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: 40.154390 Longitude: -104.851360

GPS Data:

Date of Measurement: 03/22/2007 PDOP Reading: 2.5 GPS Instrument Operator's Name: Paul Tappy

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

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 1240

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	7384	7398			
NIOBRARA	7172	7191			

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	609	400	609	0	VISU
1ST	7+7/8	2+7/8	6.5	7,556	166	7,556	6,750	CBL
S.C. 1.1	7+7/8	2+7/8	6.5	7,556	212	5,334	4,104	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7120 with 20 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 20 sks cmt from 7120 ft. to 6720 ft. Plug Type: CASING Plug Tagged: ☐

Set 30 sks cmt from 5100 ft. to 4090 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 390 sacks half in. half out surface casing from 1240 ft. to 400 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:

3. MIRU slick line services. Pull bumper spring and tag bottom. RD slickline.
4. Prepare location for base beam equipped rig. Install perimeter fence as needed.
5. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
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 Balanced Plug: 27 cu ft/ 20 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 Balanced Plug: 34 cu ft/ 30 sx class "G" w/0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (1010' in 2-7/8" casing).
7.3 Stub Plug: 518 cu ft/ 390 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (631' in 9.5" OH + 40% excess, and 209' in 8-5/8" surface casing).
8. Spot +/- 220 joints of 1.66" tbg to use as work string. TOOH 1.9" OD production tubing. Lay down 1.9" tbg. PU 1.66" tbg.
9. MIRU WL. RIH gauge ring for 2-7/8" 6.5#/ft casing to 7150'. POOH.
10. RIH CIBP w/ WL. Set at +/- 7120'. Pressure test CIBP to 2500 psi. If PT passes, use 2-7/8" as WS for stub plug. RD WL.
11. RIH to 6900' with 1.66" OD tbg hydrotesting to 3000 psi. PUH ~5 ft off of CIBP.
12. RU Cementers. Pump Niobrara Balanced Plug: 27 cu ft/20 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 7120' to 6720'.
13. PUH to 6300'. Circulate 40 bbls water containing biocide. Then, PUH to 5100'.
14. RU Cementers. Pump: 34 cu ft/ 30 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 in casing from 5100' to 4090'.
15. PUH to 3700'. Circulate 25 bbls water containing biocide.
16. WOC 4 hours. Tag TOC w/tbg. Notify engineering if tag depth is deeper than 4090'.
17. Shoot off casing at or below 1240'. RDMO WL. PUH 5' and circulate water containing biocide to remove any gas.
18. NDBOP, NDTH.
19. Install BOP on casing head with 2-7/8" pipe rams.
20. If PT to 2500 psi passed, proceed. If PT failed, TOOH and hydrotest 2-7/8" to 3000 psi back in hole.
11/3/2014
Engineer: Tyler Davis
Cell: 303-717-0764
21. RU Cementers. Pump Stub Plug: 518 cu ft/ 390 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 1240' to 400' (9.5" OH + 40% excess).
22. PUH to 150'. Circulate 10 bbls water containing biocide to clear tubing.
23. TOOH. WOC 4 hrs. MIRU WL. Tag Cement. Cement top needs to be above 400'; Proceed assuming TOC is above 400'. Otherwise, call production engineer.
24. RIH 8 5/8" CIBP to 80'. Set, 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 and invoices to rscDJVendors@anadarko.com within 24 hrs of the completion of the job.
26. Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
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. MIRU ready cement mixer. Use 4500 psi compressive strength cement, (NO gravel) fill stubout.
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. Properly abandon flowlines per Rule 1103.
33. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
34. Back fill hole with fill. Clean location, level.
35. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed. File electronic Form 42 once abandonment complete.

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: 11/25/2014 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: 2/21/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 8/20/2015

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 1240' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 559’ 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. 6) Please confirm weight of 2 7/8" production casing with Form 6 (s) Subsequent Report of Abandonment (completion report in file says 8.7 whereas attached wellbore diagram says 6.5).

Attachment Check List

Att Doc Num	Name
400740627	FORM 6 INTENT SUBMITTED
400740630	PROPOSED PLUGGING PROCEDURE
400740631	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 5/05/1994.	12/9/2014 3:52:14 PM

Total: 1 comment(s)