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: (303) 8942100 Email: craig.carlile@state.co.us

API Number 05-123-17773-00

Well Name: MCLAUGHLIN Well Number: 33-8

Location: QtrQtr: NWSE Section: 8 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: 40.238226 Longitude: -104.911815

GPS Data:

Date of Measurement: PDOP Reading: GPS Instrument Operator's Name:

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

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 4340

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	7132	7142			
NIOBRARA	6872	6942			

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	392	270	392	0	VISU
1ST	7+7/8	3+1/2	7.7	7,275	300	7,275	5,710	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6810 with 50 sacks cmt on top. CIPB #2: Depth 80 with 23 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 300 sks cmt from 4390 ft. to 3730 ft. Plug Type: STUB PLUG 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 _____ 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 340 sacks half in. half out surface casing from 860 ft. to 190 ft. Plug Tagged: ☒

Set _____ 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:

2. MIRU slickline services. Pull bumper spring, tag bottom. RDMO SL.
3. Provide notice to COGCC prior to MIRU per Form 6 COA.
4. Notify IOC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. Prepare location for base beam rig.
6. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
7. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~ 50 sacks for NBCD plug; 300 sacks for SXSH plug, ~ 340 sacks for top plug). See attached WBD for cement blends.
8. TOOH and stand back 2-1/16" (3.25#) TBG.
9. MIRU wireline services. RIH gauge ring for 3-1/2"(7.7#) casing to 7000'.
10. PU 3-1/2" (7.7#) CIBP and RIH on W/L to +/- 6810'. Set CIBP. P/T CIBP to 1000 psi.
11. RIH on 2-1/16" TBG to +/- 6810'. Hydrotest TBG to 3000 psi while RIH.
12. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
13. MIRU cementing services. Spot 50 sacks of "G" w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to acheive 2:30 pump time mixed at 15.8 ppg and 1.15 cuft/sk. Cement from 6810' to 5710'.
14. PUH 26 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services
15. Load hole and circulate with 9.0 ppg mud containing biocide.
16. P & SB 4390' of tubing (70 stands). LD remainder.
17. RU wireline services. Crack closest coupling at 4340' or shoot off. RD wireline.
18. Circulate with mud w/ biocide to remove any gas from 3-1/2" and OH annulus.
19. NDBOP, NDTH.
20. NU BOP on casing head. Install 3-1/2" pipe rams.
21. TOOH with 3-1/2" casing and lay down.
22. RIH with 2-1/16" TBG into casing stub to +/- 4390'.
23. RU Cementing services. Preflush with 5 bbl of H20; 20 bbl of sodium metasilicate; 5 bbl of H20.
24. Pump 300 sacks of "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 with 20% excess used and considering hole size of 9". Cement from 4390' to 3730'.
25. PUH to +/- 3730' or TOC. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.
26. Load hole and circulate with 9.0 ppg mud containing biocide.
27. PUH to 860'. LD remainder.
28. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
29. MIRU cementing services.
30. Pump 340 sacks of Type III w/ cello flake and CaCl2, mixed at 14.0 ppg and 1.53 cuft/sk. Cement from 860' to 190'. Volumes calculated considering 12" hole size and 20% excess.
31. PUH to +/- 190'. Circulate w / 9.0 ppg mud + biocide to CLR TBG. TOOH . WOC 4 hrs.
32. TIH and tag cement plug. If plug top is below 190', top as necessary. RDMO cementing services.
33. MIRU wireline services. PU 8-5/8" CIBP and RIH to 80'. Set CIBP. Pressure test CIBP to 1000 psi for 15 minutes. If plug tests, RDMO wireline and WO rig.
34. 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.
35. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Joleen Kramer. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Joleen Kramer.
36. Have excavation contractor notify One-Call to clear for excavating around wellhead and flowline removal.
37. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing and at least 5' below ground level.
38. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
39. MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) Fill STUB. RDMO cement services.
40. Have welder spot weld steel marker plate on top of surface casing. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.

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: 5/16/2014 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: 5/23/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 11/22/2014

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 860' plug: pump plug and displace. Wait 4 hours then tag plug – must be 340' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Operator must provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215. 6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400610250	FORM 6 INTENT SUBMITTED
400610252	PROPOSED PLUGGING PROCEDURE
400610253	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Competion Report dated 4/04/1994.	5/20/2014 4:21:05 PM

Total: 1 comment(s)