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: 400567587

Date Received: 03/06/2014

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: JOHNSON, RANDELL Tel: (303) 815-9641 Email: randell.johnson@state.co.us

API Number 05-123-07846-00

Well Name: CARL A MILLER UNIT C Well Number: 1

Location: QtrQtr: SWSW Section: 33 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: 40.090100 Longitude: -104.902090

GPS Data:

Date of Measurement: 06/17/2008 PDOP Reading: 2.3 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: 320

Fish in Hole: ☐ Yes ☒ No If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes ☒ No If yes, explain details below

Details: Cement squeeze job between 4140 to 4350 and 4990 to 5230 with 500 sx.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7702	7720			
J SAND	8144	8168			

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	219	400	219	0	VISU
1ST	7+7/8	4+1/2	11.6	8,253	200	8,287	7,550	CBL
			Stage Tool	771	200			

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8080 with 2 sacks cmt on top. CIPB #2: Depth 7640 with 40 sacks cmt on top.

CIBP #3: Depth 100 with 23 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 7030 ft. with 220 sacks. Leave at least 100 ft. in casing 7060 CICR Depth

Perforate and squeeze at 4400 ft. with 210 sacks. Leave at least 100 ft. in casing 4430 CICR Depth

Perforate and squeeze at 800 ft. with 340 sacks. Leave at least 100 ft. in casing 830 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 80 sacks half in. half out surface casing from 800 ft. to 100 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:

Perforate and squeeze at 7500'/7030' ft. with 220 sacks Leave at least 100 ft. in casing 7060' CICR Depth
Perforate and squeeze at 4700'/4400' ft. with 210 sacks Leave at least 100 ft. in casing 4430' CICR Depth
Perforate and squeeze at 1470'/800' ft. with 340 sacks Leave at least 100 ft. in casing 830' CICR Depth
6. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
8. TOOH and stand back 2-3/8" TBG.
9. MIRU wireline services. RIH gauge ring for 4-1/2" casing to 8100'.
10. PU 4-1/2" CIBP and RIH on W/L to +/-8080'. Set CIBP. Dump bail 2 sacks of cement on top of CIBP.
11. PU 4-1/2" CIBP and RIH on W/L to +/-7640'. Set CIBP. Dump bail 2 sacks of cement on top of CIBP.
12. PU RIH with CCL-GR-CBL-VDL. Run from 7550' to surface to verify cement behind 4-1/2" CSG. Email log results to engineer. Cement blend and squeeze jobs will be changed based on log results.
13. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 7500' and 7030'. RD wireline
14. PU 4-1/2" CICR and RIH on 2-3/8" TBG to 7060'. Hydrotest TBG to 3000 psi while RIH. Set CICR.
15. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
16. MIRU cementing services. Pump 220 sacks of 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cuft/ sk yield. with 20% excess used and considering hole size of 11". Cement from 7500' to 7030'.
17. Underdisplace by 3 BBL. Unsting from CICR and dump remainder on CICR.
18. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services
19. Load hole and circulate with 9.0 ppg mud containing biocide.
20. P&SB 4430' of TBG (72 Stands). LD remainder.
21. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 4400' and 4700'. RD wireline.
22. PU 4-1/2" CICR and RIH on 2-3/8" TBG to 4430'. Set CICR
23. Initiate circulation through CICR using water containing biocide. Note rate, pressure and circulation.
24. MIRU cementing services. Preflush with 5 bbl of H20; 20 bbl of sodium metasilicate; 5 bbl of H20.
25. Pump 210 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 11". Cement from 4700' to 4400'.
27. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.
28. Load hole and circulate with 9.0 ppg mud containing biocide.
29. P & SB 830' (14 stands) of TBG. LD remainder.
30. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 1470' and 800'. RD wireline.
31. PU 4-1/2" CICR and RIH on W/L to 830'. Set CICR
32. TIH with 2-3/8" TBG to 830'.
33. Initiate circulation through CICR using water containing biocide. Note rate, pressure and circulation.
34. MIRU cementing services.
35. Pump 340 sacks of Type III w/ cello flake and CaCl2, mixed at 14.0 ppg and 1.53 cuft/sk. Cement from 1470' to 800'. Volumes calculated considering 11" hole size and 20% excess.
36. Underdisplace by 3BBL. Unsting from CICR and dump remainder on CICR.
37. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.
38. Load hole and circulate with 9.0 ppg mud containing biocide.
39. RU wireline services. Crack closest coupling at 320' or shoot off (as deep as possible above cement top). RD wireline.
40. Circulate with mud w/ biocide to remove any gas.
41. NDBOP, NDTH.
42. NU BOP on casing head. Install 4-1/2" pipe rams.
43. RIH with 2-3/8" TBG into casing stub to TOC inside 4-1/2".
44. RU Cementing services. Spot 80 sx of Type III w/ celloflake and CaCl2 mixed at 14.0 ppg and 1.53 cuft/sk and with 20% cement excess and 11" hole size. Cement from +/- 800' to 100'. PUH to 100' & circulate 9.0 PPG mud w/ biocide.

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: 3/6/2014 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: 3/15/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/14/2014

COA Type	Description
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Run CBL to verify the top of primary cement is at least 200’ over Niobrara, at least 50’ below Shannon to 200’ above Sussex, and adequately isolates the Fox Hills aquifer. If cement does not exist as required, provide this coverage as part of this plugging project. Use CBL results to verify the setting depth of and stage cement pumped through the DV tool(COGCC file 771'). If DV tool cement missing, add cement behind production casing or cut casing deeper and add cement to ensure Fox Hills aquifer (675'-362') isolation. Add cement in casing across and 50' above and below DV tool as part of this plugging project. 4) If unable to pull casing contact COGCC for plugging modifications. 5) For 800' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 169’ or shallower. 6) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

Att Doc Num	Name
400567587	FORM 6 INTENT SUBMITTED
400567593	PROPOSED PLUGGING PROCEDURE
400567594	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Form 18 approved. ok to pass.	3/10/2014 8:57:19 AM
Permit	ON HOLD: Form 18 (doc # 200393092) on hold. Noise complaint. emailed field inspector.	3/7/2014 10:42:43 AM
Permit	Well Completion reports dated 05/30/1974 & 10/30/1996.	3/7/2014 10:42:18 AM

Total: 3 comment(s)