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: 400665047

Date Received: 08/14/2014

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

API Number 05-123-16198-00

Well Name: HSR-CONOVER Well Number: 15-10

Location: QtrQtr: SWSE Section: 10 Township: 3N Range: 66W 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: 40.234320 Longitude: -104.761460

GPS Data:

Date of Measurement: 07/07/2006 PDOP Reading: 2.5 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: 1250

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	7342	7358			
NIOBRARA	7042	7220			

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	487	340	487	0	VISU
1ST	7+7/8	4+1/2	11.6	7,484	285	7,484	5,450	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6980 with 25 sacks cmt on top. CIPB #2: Depth 80 with 20 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 4730 ft. with 235 sacks. Leave at least 100 ft. in casing 4210 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 410 sacks half in. half out surface casing from 1350 ft. to 290 ft. Plug Tagged: ☒

Set 20 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 4730 & 4190 ft. with 235 sacks Leave at least 100 ft. in casing 4210 CICR Depth
1. Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call IOC (970-506-5980) at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline services.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
5. MIRU WO rig. Kill well as necessary w/ water containing biocide. ND WH, NU BOP.
6. Unseat and LD landing joint.
7. PU w/ 2-3/8" tbg (4.7#, J-55, 8rd EUE) to break any sand bridges. Do not exceed the safety tensile load of 57,384 lbs (80% of upset yield strength). TOOH and SB 2-3/8" tbg.
8. MIRU Wireline. PU gauge ring for 4-1/2", 11.6# csg. RIH to 7,000'. POOH and LD gauge ring.
9. PU CIBP for 4-1/2" (11.6#, I-70, LTC) csg on wireline and RIH to +/- 6,980'. Set CIBP in the csg (Note: Csg collars are at +/- 6,963' and +/- 7,008'). POOH wireline. Pressure test CIBP to 1000 psi for 15 min. RDMO Wireline.
10. TIH 2-3/8" tbg to +/- 6,980' (+/- 225 jts) while hydrotesting each stand to +/- 3000 psi and tag CIBP.
11. MIRU Cementing Services. Spot 25 sx of cmt (Class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301, and R-3 to achieve 2:30 pump time) mixed at 15.8 ppg and 1.38 cuft/sk from 6,980' to 6,580'.
12. PUH w/ 2-3/8" tbg to +/- 6,300' (+/- 22 jts) and circulate tbg clean. POOH, SB 138 jts of tbg, LD remainder.
13. MIRU Wireline. PU and RIH two 1' perf guns (3-1/8", 3 spf, "Big Hole" 0.6" EHD, 7" penetration, 120o phasing, 2' net, 6 total holes) to 4,730'. Perf bottom squeeze holes at 4,730' then PUH to 4,190' and perf top squeeze holes in 4-1/2" prod csg. POOH perf guns. RDMO wireline.
14. PU CICR for 4-1/2" csg (11.6#, I-70, LTC) on 2-3/8" tbg. TIH and set at +/- 4,210' (+/- 136 jts).
15. MIRU Cementing Services. Pump 5 bbls of fresh water, 20 bbls of metalillicate, and 5 bbls of fresh water followed with 235 sx of cmt (Class 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. Under displace by 3bbls of cement, sting out of CICR and dump cmt on CICR. Planned cement is from 4,730' to 4,190' in 9" OH (plus 20% excess) & from 4,730' to 4,090' in 4-1/2", 11.6# csg. PUH to +/- 3,340 (+/- 24 jts) and circulate to clean tbg. TOOH and SB 46 jts of tbg and LD remainder. RDMO Cementing Services.
16. MIRU wireline. PU a jet cutter and RIH to +/- 1,250' to cut 4-1/2" csg. Cut, TOOH, and LD csg. RDMO wireline.
17. TIH w/ 2-3/8" tbg to +/- 1,350' (+/- 44 jts). Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide.
18. MIRU Cementing Services. Spot 410 sx of cmt (Type III w/ cello flake and CaCl2 as deemed necessary) mixed at 14.8 ppg at 1.33 cuft/sk. Planned cement is from 1,350' to 1,250' stub plug in 4-1/2", 11.6# csg stub, 1,250' to 487' in 9" OH (plus 20% excess), and from 487' to 290' inside 8-5/8", 24# surface csg. PUH to 150' and circulate tbg clean. RDMO Cementing Services. WOC for 4 hrs.
19. Tag TOC and if TOC is deeper than 290' contact engineer for possible further cement work. TOOH and LD 2-3/8" tbg.
20. MIRU wireline. PU CIBP on wireline for 8-5/8" (24#) csg and TIH to +/- 80'. Set CIBP and test to 1000 psi for 15 min. POOH and LD wireline. RDMO wireline.
21. RDMO WO rig.
22. NOTE: Instruct cementing & wireline contractors to email copies of all job logs/job summaries & invoices to rscDJVendors@anadarko.com within 24 hours of the completion of the job.
23. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
24. Have excavation contractor notify One-Call.

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: 8/14/2014 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: 8/24/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 2/23/2015

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 1350' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 437' 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
400665047	FORM 6 INTENT SUBMITTED
400665054	PROPOSED PLUGGING PROCEDURE
400665055	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 12/08/1992.	8/15/2014 8:36:30 AM

Total: 1 comment(s)