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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Date Received: 02/27/2015

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 05-123-15546-00

Well Name: HSR-NELLIS Well Number: 11-15

Location: QtrQtr: NESW Section: 15 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: 40.224081 Longitude: -104.879194

GPS Data:

Date of Measurement: 02/12/2009 PDOP Reading: 2.0 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: 870

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	7084	7104			
J SAND	7525	7564			
NIOBRARA	6815	6966			

Total: 3 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	553	400	553	0	VISU
1ST	7+7/8	4+1/2	11.6	7,215	135	7,215	6,450	CBL
1ST LINER	3+7/8	2+7/8	6.5	7,680	25	7,680	7,234	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7450 with 1 sacks cmt on top. CIPB #2: Depth 6750 with 25 sacks cmt on top.

CIBP #3: Depth 80 with 25 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 25 sks cmt from 6750 ft. to 6350 ft. Plug Type: CASING Plug Tagged: ☐

Set 60 sks cmt from 4560 ft. to 3820 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 190 sacks half in. half out surface casing from 970 ft. to 450 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:

5. MIRU, kill as necessary using clean fresh water with biocide. NDWH. NUBOP. Unseat landing jt, LD.
6. Notify cementers to be on call. Provide volumes listed below:
6.1 Niobrara plug: 25 sx (35 cu-ft) “G” w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.38 cu-ft/sk. Cement volume based on 400’ in 4 ½” casing.
6.2 Sussex plug: 60 sx (69 cu-ft) “G” w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk. Cement volume based on 740’ in 4 ½” casing.
6.3 Foxhills plug: 190 sx (253 cu-ft) Type III w/cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk. Cement volume based on 100’ in 4 ½” casing, 317’ in a 9” OH with 20% excess, and 203’ in 8 5/8” casing. Caliper on file.
7. TOOH 2 3/8” and 1.66” tubing landed at 7471’. Stand back 2 3/8” tubing and lay down 1.66” tubing.
8. MIRU WL. RIH gauge ring for 2 7/8” 6.5# casing to 7500’. POOH.
9. PU 2 7/8” 6.5# CIBP and RIH w/WL. Set at +/-7450’ to abandon J Sand perfs. PU dump bailer, dump bail 1 sx class “G” cement on CIBP. POOH.
10. RIH gauge ring for 4 ½” 11.6# casing to 6800’. POOH.
11. PU 4 ½” 11.6# CIBP and RIH w/WL. Set at +/-6750’ to abandon Niobrara and Codell perfs. PT to 1000 psi. RDMO WL.
12. RIH with 2 3/8” tubing to +/- 6750’, tag CIBP and PUH 5’. Hydrotest tubing to 3000 psi while RIH.
13. RU cementers. Pump Niobrara plug: 25 sx (35 cu-ft) “G” w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.38 cu-ft/sk. Plug to cover 6350’ – 6750’.
14. PUH to ~6100’. Reverse circulate with water containing biocide to displace cement and clear tubing.
15. PUH to ~4560’.
16. RU cementers. Pump Sussex plug: 60 sx (69 cu-ft) “G” w/ 0.4% CD-32, 0.4% ASA-301, mixed at 15.8 ppg and 1.15 cu-ft/sk. Plug to cover 3820’ – 4560’.
17. PUH to ~3600’. Reverse circulate with water containing biocide to displace cement and clear tubing.
18. WOC per cement company recommendation. Tag cement at or above 3820’. If not, consult with Evans Engineering.
19. P&SB 970’, LD remainder.
20. RU WL. Shoot off 4 ½” casing at or below 870’. RD WL. Circulate casing with water containing biocide to remove any gas.
21. NDBOP, NDTH.
22. Install BOP on casing head with 4 ½” pipe rams.
23. TOOH 4 ½” casing, LD.
24. RIH with 2 3/8” tubing to 1070’ inside 4 ½” casing.
25. RU cementers. Establish circulation w/ biocide treated water and precede cement with 10 bbl SAPP and a minimum 20 bbl fresh water spacer. Pump Foxhills plug: 190 sx (253 cu-ft) Type III w/ cello flake and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk. Plug to cover 970’ – 870’ in 4 ½” casing, 870’ – 553’ in 9” OH with 20% excess, and 553’ – 350’ in 8 5/8” casing. Caliper readings across entire interval. RD cementers.
26. PUH to 100’ and circulate with water and biocide to displace cement and clear tubing.
27. WOC per cement company recommendation. Tag cement at or above 450’. If not, consult with Evans Engineering.
28. RU WL. RIH 8 5/8” 24# CIBP to 80’. Set and pressure test to 1000 psi for 15 minutes. If tests, RDMO WL and WO rig.
29. Instruct cementing and wireline contractors to email copies of all job logs/jobs summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
30. Supervisor is to submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
31. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
32. Excavate hole around surface casing enough to allow welder to cut casing minimum 5’ below ground level.
33. Welder cut casing minimum 5' below ground level.
34. Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
35. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
36. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
37. Properly abandon flow

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: 2/27/2015 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: 3/14/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 9/13/2015

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 970' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 503’ 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.

Attachment Check List

Att Doc Num	Name
400801138	FORM 6 INTENT SUBMITTED
400801146	PROPOSED PLUGGING PROCEDURE
400801148	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 5/5/1992 & 2/10/1999.	3/2/2015 3:17:43 PM

Total: 1 comment(s)