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: 400743445

Date Received: 12/02/2014

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: (970) 629-8279 Email: craig.carlile@state.co.us

API Number 05-123-15865-00

Well Name: WARDELL Well Number: H 19-14

Location: QtrQtr: SESW Section: 19 Township: 3N Range: 65W 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: 40.205340 Longitude: -104.708970

GPS Data:

Date of Measurement: 07/18/2006 PDOP Reading: 4.6 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: 1400

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	7374	7389			

Total: 1 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	661	460	661	0	CALC
1ST	7+7/8	2+7/8	6.5	7,537	210	7,537	6,682	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7300 with 25 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 25 sks cmt from 7300 ft. to 6240 ft. Plug Type: CASING Plug Tagged: ☐

Set 180 sks cmt from 4730 ft. to 4330 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 450 sacks half in. half out surface casing from 1400 ft. to 460 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 WO rig. Kill well as necessary w/ water containing biocide. ND WH, NU BOP.
6. Unseat and LD landing joint. PU w/ 1.66 OD tbg (2.33#, J-55) to break any sand bridges. Do not exceed the safety tensile load of 29,416 lbs (80% of upset yield strength).
7. TOOH and SB 1.66" OD tbg (223 jts landed at 7,342').
8. MIRU Wireline. PU gauge ring for 2-7/8" csg (2.33#). RIH to +/- 7,310'. POOH and LD gauge ring.
9. PU CIBP for 2-7/8" (2.33#, J-55) csg on wireline and RIH to 7,300'. Set CIBP in the csg at 7,300'. POOH and LD the setting tool. Pressure test to 2,500 psi for 15 min. RDMO Wireline.
10. TIH 1.66" OD tbg and tag CIBP at +/- 7,300' while hydrotesting each joint to +/- 3000 psi and tag CIBP. Pick up 5' from tag.
11. MIRU Cementing Services. Spot 25 sx (+/- 34 cuft) 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 7,300' to 6,240'. RDMO Cementing Services.
12. PUH w/ 1.66" OD tbg to +/- 6,000' and circulate tbg clean. POOH and LD the 1.66" OD tbg.
13. MIRU Wireline. PU and RIH on wireline one 1' perf guns (1-11/16", 6 spf, 0.37 EHD, 7" penetration, 60o phasing, 1' net, 6 total holes) to 4,730'. Perf squeeze holes at 4,730' in 2-7/8" prod csg. POOH perf guns. RDMO wireline.
14. MIRU Cementing Services. Establish circulation down the 2-7/8" csg up the surface csg. Pump 5 bbls of fresh water, 20 bbls of metalillicate, and 5 bbls of fresh water followed with 180 sx (+/- 207 cuft) 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 w/ a wiper plug and displace to 4,330' (+/- 24 bbls). Planned cement is from 4,730' to 4,330' in 9" OH (from caliper, plus 20% excess) & from 4,730' to 4,330' in 2-7/8", 6.5# csg. RDMO Cementing Services. WOC for 4 hrs.
15. MIRU Wireline. PU a jet cutter and RIH to tag TOC at+/- 4,330'. If tag is deeper than 4,330', contact the engineer for possible further cement work.
16. PU to 1,400' and cut the 2-7/8" csg. Cut csg and circulate bottoms up. Continue to circulate to remove any gas in the wellbore. RDMO Wireline.
17. ND BOP and tbg head. NU BOP on the surface csg with 2-7/8" pipe rams. Install 3,000 psi ball valves on the csg head outlets. Install a choke or a choke manifold on one outlet.
18. Unland and PU 2-7/8" csg 5'. NOTE: if pressure test didn't pass in step 9, TOOH 2-7/8" csg and TIH while hydrotesting.
19. MIRU Cementing Services. Pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) followed by 20 bbls of fresh water containing biocide prior to pumping cement through the 2-7/8" csg. Spot 450 sx (+/- 517 cuft) 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 1,400' to 663' in 9" OH (from closest caliper, plus 40% excess), and from 663' to 460' inside 8-5/8", 24# surface csg. PUH to 150' and circulate tbg clean, POOH and SB tbg. RDMO Cementing Services. WOC for 4 hrs.
20. Tag TOC w/ 2-7/8" csg and if TOC is deeper than 461' contact engineer for possible further cement work. TOOH and LD 2-7/8" csg.
21. 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.
22. RDMO WO rig.
23. 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.
24. Wellsite supervisor should turn all paper copies of cementing reports/invoices and logs into Joleen Kramer.
25. Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
26. Excavate hole around surface casing enough to allow welder to cut 8-5/8" casing minimum 5' below ground level.
27. Welder cut 8-5/8" casing minimum 5' below ground level.
28. MIRU ready cement mixer. Fill the last 80' inside the 8-5/8" prod. casing until 10' below surface. Use 4,500 psi comp

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: 12/2/2014 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: 12/22/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 6/21/2015

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 1400' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 611' 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
400743445	FORM 6 INTENT SUBMITTED
400743448	PROPOSED PLUGGING PROCEDURE
400743449	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 6/17/1993.	12/11/2014 11:20:48 AM

Total: 1 comment(s)