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: 400713794

Date Received: 10/21/2014

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 05-123-16787-00

Well Name: STRONG Well Number: P 21-7

Location: QtrQtr: SWNE Section: 21 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: 40.212780 Longitude: -104.893760

GPS Data:

Date of Measurement: 07/09/2007 PDOP Reading: 2.2 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: 930

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	7075	7094			

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	382	270	382	0	VISU
1ST	7+7/8	2+7/8	6.5	7,208	260	7,208	6,200	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7000 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 _____ 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 4800 ft. with 610 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 400 sacks half in. half out surface casing from 930 ft. to 180 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:

Perforate and squeeze at 4800' - 3800' ft. with 610 sacks Leave at least 100 ft. in casing n/a CICR Depth
6. MIRU, kill well as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
7. Notify cementers to be on call. Provide volumes listed below:
7.1 Niobrara Balanced Plug: 34 cu ft/ 25 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk (1050' inside 2-7/8" Casing, no excess)
7.2 SX Wiper Plug: 701 cu ft/ 610 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (1000' in 10-1/4" + 20% excess and 1000' in 2-7/8" casing, no excess).
7.3 Stub Plug: 532 cu ft/ 400 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (438' in 10-1/4" OH + 40% excess, and 202' in 8 5/8" surface casing).
8. TOOH 1.66" OD production tubing. Stand Back.
9. MIRU Warrior WL. RIH gauge ring for 2-7/8" 6.5#/ft casing to 7050'. POOH.
10. RIH CIBP w/ WL. Set at +/- 6900'. Pressure test CIBP to 2500 psi. If PT passes, use 2-7/8" as WS for stub plug. RD WL.
11. Run gyro survey from 7060' to surface with stops every 100'. Forward gyro survey data and invoices to Sabrina Frantz.
12. Run CBL from CIBP at 6900' to surface to verify Sussex and surface cement. If CBL results differ from wellbore diagram, contact engineering. Squeeze intervals may be changed based on CBL. Note: it is important to get a good quality CBL. It may be necessary to circulate to surface in order to get gas out of the hole.
13. RIH to 6900' with 1.66" OD tbg hydrotesting to 3000 psi. PUH ~5 ft off of CIBP.
14. RU Cementers. Pump Niobrara Balanced Plug: 34 cu ft/25 sx class G w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sk to place cement in 2-7/8" production casing from 6900' to 6400'.
15. PUH to 6000'. Circulate 35 bbls water containing biocide. Then, TOOH laying down tbg.
16. MIRU WL. PU 2-1/8" 6 spf 0.42, 60deg phasing. Shoot 1' of squeeze holes at 4800'. RDMO WL.
17. RU Cementers. Pump 5 bbl water w/biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement. Pump: 701 cu ft/ 610 sx class "G" w/0.25 pps cello flake, 0.4% CD-32,
10/6/2014
Engineer: Tyler Davis
Cell: 303-717-0764
0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx to squeeze cement into annulus and place in casing from 4800' to 3800'. Follow w/wiper plug and displace to 3800'. Shut well in to prevent flowback.
18. WOC 4 hours. RU WL. RIH w/sinker bars and tag TOC. Notify engineering if tag depth is deeper than 3800'.
19. Shoot off casing at or below 930'. RDMO WL. PUH 5' and circulate water containing biocide to remove any gas.
20. NDBOP, NDTH.
21. Install BOP on casing head with 2-7/8" pipe rams.
22. If PT to 2500 psi passed, proceed. If PT failed, TOOH and hydrotest 2-7/8" to 3000 psi back in hole.
23. RU Cementers. Pump Stub Plug: 532 cu ft/ 400 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx from 930' to 180' (10-1/4" OH + 40% excess).
24. PUH to 150'. Circulate 10 bbls water containing biocide to clear tubing.
25. TOOH. WOC 4 hrs. MIRU WL. Tag Cement. Cement top needs to be above 180'; Proceed assuming TOC is above 180'. Otherwise, call production engineer.
26. RIH 8 5/8" CIBP to 80'. Set, PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.
27. 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.
28. Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
29. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
30. Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.
31. Welder cut 8 5/8" casing minimum 5' below ground level.

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: 10/21/2014 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: 11/24/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 5/23/2015

COA Type	Description
	Note change in plugging procedure: 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Set CIBP #1 deeper (50-100' above perfs) by moving it from proposed 6900' to 7000'. 3) If unable to pull casing contact COGCC for plugging modifications. 4) For 930' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 332' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

Att Doc Num	Name
400713794	FORM 6 INTENT SUBMITTED
400713795	PROPOSED PLUGGING PROCEDURE
400713796	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 9/15/1993.	10/31/2014 2:48:14 PM

Total: 1 comment(s)