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

| DE | ET | OE | ES |
|---|---|---|---|
| | | | |

Document Number: 400684523

Date Received: 09/10/2014

## 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 05-123-13300-00

Well Name: KUGEL UPRR Well Number: 32-23

Location: QtrQtr: SWNE Section: 23 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: 40.212394 Longitude: -104.741839

GPS Data:

Date of Measurement: 05/15/2009 PDOP Reading: 2.5 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: 856

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 | 7406 | 7418 | 10/30/2013 | B PLUG CEMENT TOP | 7066 |
| NIOBRARA | 7116 | 7278 | 10/30/2013 | B PLUG CEMENT TOP | 7066 |

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 | 604 | 300 | 604 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 15.1 | 7,520 | 225 | 7,425 | 6,420 | CBL |
| | | | Stage Tool | 4,800 | 0 | 0 | 0 | |

# Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 23 sacks cmt on top. CIPB #2: Depth _____ with _____ 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 4900 ft. with 330 sacks. Leave at least 100 ft. in casing 4420 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 240 sacks half in. half out surface casing from 956 ft. to 400 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:

1. Call IOC at 970-506-5980 before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. Provide notice to COGCC prior to MIRU per Form 6 COA.
3. Prepare location for base beam rig.
4. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.
5. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~ 330 sacks (375 cu.ft) for SXSH plug, ~ 240 sacks (320cu.ft) for top plug). See attached WBD for cement blends.
6. RIH & tag cement at 6633' ( needs to be above 6709').
7. TOOH and stand back 4420' (72 stands) 2 3/8" TBG. LD remainder.
8. MIRU wireline services. RIH gauge ring for 4 ½ " (15.1#) casing to 4900'.
9. PU two 1' 3 1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 4900' and 4390'. RD wireline.
10. PU 4 ½ " CICR (15.1#) and RIH on 2 3/8" TBG to 4420'. P/T tubing to 3000 psi while RIH. Set CICR.
11. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
12. MIRU cementing services. Preflush with 5 bbl of H20; 20 bbl of sodium metasilicate; 5 bbl of H20.
13. Pump 330 sacks (375 cu. ft) 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 40% excess used and considering hole size of 10". Cement from 4900' to 4390'. Note: Uncemented Stage tool at 4800'. Underdisplace by 3 BBL. Unsting from CICR and dump remainder on CICR.
14. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.
15. P & SB 956' (16 stands) of TBG. LD remainder.
16. RU wireline services. Crack closest coupling at +/- 850' or shoot off. RD wireline.
17. Circulate with water w/ biocide to remove any gas from 4 ½ " and OH annulus.
18. NDBOP, NDTH.
19. NU BOP on casing head. Install 4 ½" pipe rams.
20. TOOH with 4 ½ " casing and lay down.
21. RIH with 2 3/8" TBG into casing stub to +/- 950' inside 4 ½".
22. RU Cementing services.
23. Precede cement with 10 bbl SAPP and 20 bbl fresh water spacer. Pump 240 sacks (~320 cu. ft) of Type III w/ cello flake and CaCl2, mixed at 14.8 ppg and 1.33 cuft/sk. Cement from 956' to 400'. Volumes calculated considering 12" hole size and 20% excess.
24. PUH to +/- 300'. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services. TOOH. WOC 4 hrs.
25. TIH and tag cement plug. If plug top is below +/- 400', top as necessary. RDMO cementing services.
26. MIRU wireline services. PU 8-5/8" CIBP and RIH to 80'. Set CIBP. Pressure test CIBP to 1000 psi for 15 minutes. If plug tests, RDMO wireline 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. Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to Joleen Kramer. NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to Joleen Kramer.
29. Have excavation contractor notify One-Call to clear for excavating around wellhead and flowline removal.
30. Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing and at least 5' below ground level.
31. Have welder cut off 8-5/8" surface casing at least 5' below ground level.
32. MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) Fill STUB. RDMO cement services.
33. Have welder spot weld steel marker plate on top of surface casing. (Note: marker shall be labeled with well name and number, legal location (¼ ¼ description) and API number.
34. Properly abandon flowlines as per Rule 1103.
35. Have excavation contractor back fill hole with native material. Clean up location and have leveled.
36. Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram.

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: 9/10/2014 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: 9/18/2014

**CONDITIONS OF APPROVAL, IF ANY:** Expiration Date: 3/17/2015

| COA Type | Description |
|---|---|
| | 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.<br>2) If unable to pull casing contact COGCC for plugging modifications.<br>3) For 956' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 554’ or shallower.<br>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.<br>5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.<br><br>6) Submit corrected Operator's Monthly Production Reports (Form 7) required for compliance with Rule 309 within 30 days. |

## Attachment Check List

| Att Doc Num | Name |
|---|---|
| 400684523 | FORM 6 INTENT SUBMITTED |
| 400684526 | WELLBORE DIAGRAM |
| 400684527 | PROPOSED PLUGGING PROCEDURE |

Total Attach: 3 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| Permit | Well Completion Report dated 3/16/1987. | 9/11/2014 8:57:06 AM |

Total: 1 comment(s)