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: 400703743

Date Received: 10/08/2014

## 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: REBECCA HEIM

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6361

Address: P O BOX 173779 Fax: (720) 929-7361

City: DENVER State: CO Zip: 80217- Email: REBECCA.HEIM@ANADARKO.COM

**For "Intent" 24 hour notice required, COGCC contact:** Name: Johnson, Randell Tel: (303) 815-9641 Email: randell.johnson@state.co.us

API Number 05-123-10066-00

Well Name: WILLIAM E. GEE GAS UNIT Well Number: 2

Location: QtrQtr: SWSE Section: 24 Township: 2N 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: 40.119180 Longitude: -104.834980

GPS Data:

Date of Measurement: 06/04/2008 PDOP Reading: 2.1 GPS Instrument Operator's Name: Coddy Mattson

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 |
|---|---|---|---|---|---|
| J SAND | 7884 | 7920 | | | |

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 | 618 | 425 | 618 | 0 | VISU |
| 1ST | 7+7/8 | 4+1/2 | 10.5 & 11 | 8,020 | 200 | 8,020 | 7,246 | CALC |

# Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7830 with 2 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 7200 ft. with 150 sacks. Leave at least 100 ft. in casing 6780 CICR Depth

Perforate and squeeze at 4650 ft. with 470 sacks. Leave at least 100 ft. in casing 4230 CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 580 sacks half in. half out surface casing from 1350 ft. to 400 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:

MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
TOOH and SB 2 3/8" production tubing (243 jts landed @ 7853').
RIH casing scraper on 2 3/8" tubing for 4 1/2", 10.5 #/ft - 11.6 #/ft casing to 7850'. P & LD scraper, SB 6780' tubing, LD remainder.
MIRU WL. Set CIBP at 7830' to abandon J sand perfs. Pressure test CIBP to 1000 psi. Dump bail 2 sx cement on top of CIBP.
RIH 2 3/8" tbg to minumum of 2000'. Circulate hole to remove trapped gas.
Run CBL from 7750' to surface. Email results to brent.marchant@anadarko.com and nicole.schaly@anadarko.com. Results of this CBL may change the depth of the squeeze perfs over the Niobrara.
PU and RIH with 2-1' 3-1/8" perf guns with 3 spf, 0.5" diam 120° phasing. Shoot 1' of squeeze holes at 7200' and 6750'. RD WL.
MIRU hydrotester. PU 4 1/2" CICR and RIH on 2 3/8" tubing while hydrotesting. Set CICR at 6780'.
RU Cementers. Establish injection and circulation through squeeze holes. Pump Niobrara Suicide Squeeze: 150 sx (257 cuft) 50/50 Poz "G" w/ 20% silica flour, 3% gel, 0.1% sodium metasilicate, and 0.4% FL-52, mixed at 13.5 ppg and 1.71 cuft/sx. Underdisplace by 3 bbls and unsting from CICR spotting at least 100' cement on top of squeeze holes. The plug will cover 7200' - 6750'. Volume based on 450' in 9.5" OH from caliper with 20% excess, 450' inside 4 1/2" csg with no excess. RD cementers.
PUH to 6500' and circulate tubing clean to ensure no cement is left in the tubing.
P & SB 4230', LD remainder.
MIRU WL. PU and RIH with 2-1' 3-1/8" perf guns with 3 spf, 0.5" diam 120° phasing. Shoot 1' of squeeze holes at 4650' and 4200'. RD WL.
RU 4 1/2" CICR and RIH on 2 3/8" to set CICR at 4230'.
RU Cementers. Pump 20 bbl sodium metasilicate and a 5 bbl water spacer to establish injection and circulation. Pump Sussex Suicide: 470 sx (541 cuft) Class "G" cement with 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx. Underdisplace by 3 bbls and unsting from CICR spotting at least 100' cement on top of squeeze holes. The plug will cover 4650' - 4200'. Volume based on 450' in 12" OH from caliper with 20% excess, 450' in 4 1/2" production casing with no excess. RDMO cementers.
PUH to 4000' and circulate to ensure no cement left in the tubing.
P & SB 1350' of tubing, LD remainder.
RU WL. RIH and cut casing at 1250'. RDMO WL.
Circulate with fresh water contaiing biocide to remove any gas.
NDBOP, NDTH. Install BOP on casing head with 4 1/2" pipe rams.
POOH with 1250' of 4 1/2" casing, LD. Remove 4 1/2" pipe rams and install 2 3/8" pipe rams.
RIH with 2 3/8" tubing to 1350'.
MIRU Cementers. Preceed cement with 10 bbl (min) SAPP followed by a 20 bbl fresh water spacer. Pump Stub Plug: 580 sx (772 cuft) Type III w/ cello flake and CaCl2 as deemed necessary, mixed at 14.8 ppg and 1.33 cuft/sx (100' in 4 1/2" production casing with no excess, 632' in 12" OH from caliper with 40% excess, 218' in 8 5/8" surface csg with no excess). The plug will cover 1350' - 400'. RD cementers.
Pull up to 200' and circulate tubing clean using fresh water treated with biocide. TOOH.
WOC per cement company recommendation. Tag cement. Cement top needs to be above 400'.
MIRU WL. RIH 8 5/8" CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.
Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.
Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
Excavate hole around surface casing enough to allow welder to cut casing minimum 5’ below ground level.
Welder cut casing minimum 5' below ground level.
Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location

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: 10/8/2014 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: 11/4/2014

**CONDITIONS OF APPROVAL, IF ANY:** Expiration Date: 5/3/2015

| COA Type | Description |
|---|---|
| | 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.<br>2) No CBL on file. Run CBL to verify the top of cement is at least 200’ over Niobrara, at least 50’ below Sussex to 200’ above Sussex, and adequately isolates the Fox Hills aquifer. If cement does not exist as required, provide this coverage as part of this plugging project.<br>3) If unable to pull casing contact COGCC for plugging modifications.<br>4) For 1350' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 568’ or shallower.<br>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.<br>6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment. |

## Attachment Check List

| Att Doc Num | Name |
|---|---|
| 400703743 | FORM 6 INTENT SUBMITTED |
| 400703746 | PROPOSED PLUGGING PROCEDURE |
| 400703747 | WELLBORE DIAGRAM |

Total Attach: 3 Files

## General Comments

| User Group | Comment | Comment Date |
|---|---|---|
| Permit | Well Completion Report dated 5/24/1982. | 10/21/2014 2:25:27 PM |

Total: 1 comment(s)