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: 08/08/2014

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: 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: MONTOYA, JOHN Tel: (970) 3974124 Email: john.montoya@state.co.us

API Number 05-123-22275-00

Well Name: MARCUS STATE W Well Number: 36-3J

Location: QtrQtr: NENW Section: 36 Township: 2N Range: 66W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 74/7597-S

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: 40.099714 Longitude: -104.727361

GPS Data:

Date of Measurement: 10/08/2007 PDOP Reading: 2.6 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: 1700

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	7941	7985	10/01/2013	SQUEEZED	7904

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	1,069	385	1,069	0	VISU
1ST	7+7/8	4+1/2	11.6	8,049	190	8,049	6,916	CBL

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 70 sks cmt from 7800 ft. to 6800 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: ☐

Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 4830 ft. with 230 sacks. Leave at least 100 ft. in casing 4460 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 500 sacks half in. half out surface casing from 1800 ft. to 619 ft. Plug Tagged: ☒

Set 23 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 4830' / 4430' ft. with 230 sacks Leave at least 100 ft. in casing 4460 CICR Depth

1. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. MIRU slickline services and VES. Tag bottom and run gyro stopping every 100' from tagged depth to surface. Forward survey results to Sabrina Frantz. RDMO SL & VES.
3. Provide notice to COGCC prior to MIRU per Form 6 COA.
4. Prepare location for base beam rig.
5. MIRU WO rig. Kill well; with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down. Well is TA and No TBG in hole; therefore cannot circulate.
6. Spot 251 joints of 2 3/8 (4.7#) J-55 TBG.
7. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~ 70 sacks (90 cu.ft) for NBCD in pipe plug; 230 sacks (255 cu.ft) for SXSH plug, ~ 500 sacks (675cu.ft) for top plug). See attached WBD for cement blends.
8. Pressure test casing & RBP to 1000 psi for 15 min.
9. RIH 2 3/8" TBG to +/- 7800'. Hydrotest TBG to 3000 psi while RIH.
10. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
11. MIRU cementing services. Spot 70 sacks (~ 90 cu. ft.) of "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 1.15 cuft/sk. Cement from 7800' to 6800'.
12. PUH ~ 15 stands. Circulate (2 X TBG Vol + Excess) with water + biocide to CLR TBG. RD cementing services.
13. TOOH and stand back 4460' (72 stands) of 2-3/8" TBG. LD remainder.
14. MIRU wireline services.
15. PU two 1' 3 1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 4830' and 4430'. RD wireline.
16. PU 4 ½ " CICR (11.6#) and RIH on 2 3/8" TBG to 4460'. Set CICR.
17. Initiate circulation using water containing biocide. Note rate, pressure and circulation.
18. MIRU cementing services. Preflush with 5 bbl of H20; 20 bbl of sodium metasilicate; 5 bbl of H20.
19. Pump 230 sacks (255 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 20% excess used and considering hole size of 10". Cement from 4830' to 4430'.
20. Underdisplace by 3 BBL. Unsting from CICR and dump remainder on CICR.
21. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.
22. P & SB 1800' (30 stands) of TBG. LD remainder.
23. RU wireline services. Crack closest coupling at 1700' or shoot off. RD wireline.
24. Circulate with water w/ biocide to remove any gas from 4 ½ " and OH annulus.
25. NDBOP, NDTH.
26. NU BOP on casing head. Install 4 ½" pipe rams.
27. TOOH with 4 ½ " casing and lay down.
28. RIH with 2 3/8" TBG into casing stub to +/- 1800' inside 4 ½".
29. RU Cementing services.
30. Pump 500 sacks (~675 cu. ft) of Type III w/ cello flake and CaCl2, mixed at 14.8 ppg and 1.33 cuft/sk. Cement from 1800' to 870'. Volumes calculated considering 12" hole size and 20% excess.
31. PUH to +/- 750'. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services. TOOH. WOC 4 hrs.
32. TIH and tag cement plug. If plug top is below +/- 750', top as necessary. RDMO cementing services.
33. 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.
34. 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.
35. 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.
36. Have excavation contractor notify One-Call to clear for excavating around wellhead and flowline removal.

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: 8/8/2014 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: 8/17/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 2/16/2015

COA Type	Description
	Note change in plugging procedure: 1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Please tag existing RBP@ 7904'. If satisfactory wireline reports confirming setting of RBP @ 7904' emailed to COGCC prior to plugging operations beginning no need to tag. 2) If unable to pull casing contact COGCC for plugging modifications. 3) For 1800' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 619' or shallower (instead of proposed 870') to separate Laramie Fox Hills aquifer from Lower Arapahoe aquifer. Increase cement volumes accordingly. 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
400660087	FORM 6 INTENT SUBMITTED
400660093	PROPOSED PLUGGING PROCEDURE
400660094	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well complertion Report dated 10/13/2004.	8/13/2014 8:46:16 AM

Total: 1 comment(s)