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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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 05-123-14834-00

Well Name: STATE Well Number: L 16-3

Location: QtrQtr: NENW Section: 16 Township: 3N Range: 66W Meridian: 6

County: WELD Federal, Indian or State Lease Number: 72-3201-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: 40.230290 Longitude: -104.784800

GPS Data:

Date of Measurement: 06/17/2006 PDOP Reading: 2.3 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: 1230

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	7365	7381			

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	545	450	545	0	CALC
1ST	7+7/8	2+7/8	6.5	7,524	300	7,524	6,360	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7290 with 20 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 20 sks cmt from 7290 ft. to 6370 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 4590 ft. with 250 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 530 sacks half in. half out surface casing from 1230 ft. to 440 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 Run gyro after MIRU.
2 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6. Submit Form 42 and call Automation Removal Group at least 24 hrs prior to rig move. If not already completed, request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.
3 If unable to catch plunger, MIRU SL. Fish plunger and tag PBMD (should be 7503'). Otherwise, use rig to tag fill with tbg. Enter tag depth in OpenWells.
4 Prepare location for base beam rig.
5 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. Contact engineer if Bradenhead pressure is greater than 0 psi.
6 Spot 25 jts of 1.66" 2.3# J-55 NUE tbg.
7 MIRU WO rig. Kill well with fresh water and biocide. ND WH, NU BOP.
8 PU tbg to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 29,416 lb. LD landing jt. TOOH with 1.66" tbg.
9 Notify cementers of the needed volumes: 20 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (Niobrara plug inside 2-7/8" csg); 250 sx of 0:1:0 Class G cement with 0.5% CFR-2, 0.2% FMC, 0.5% LWA, 0.25 pps polyflake mixed at 15.8 ppg and 1.15 cf/sk (Sussex wiper plug squeeze 400' inside and outside 2-7/8" csg); 530 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl2 mixed at 14.8 ppg and 1.33 cf/sk (Fox Hills stub plug).
10 MIRU WL. RIH gauge ring for 2-7/8" 6.5# csg to 7300'.
11 RIH with 2-7/8" CIBP (2-7/8" 6.5# N-80, Big Boy Bridge Plug: 000-2100-002). Set CIBP at +/- 7290' (Collars at 7278' and 7306').
12 Pressure test CIBP to 3000 psi for 15 minutes. If pressure test does not pass, contact Evans Engineering. Otherwise, RDMO WL.
13 RIH to with 1.66" tbg while hydrotesting to 3000 psi and tag CIBP.
14 MIRU cement company. Spot 20 sx of Thermal 35 cement with 0.5% CFR-2, 0.25% FMC mixed at 15.6 ppg and 1.51 cf/sk (cement from 7290' to 6370' in 2-7/8" csg).
15 PUH to 4590'. Circulate fresh water with biocide to clear tbg.
16 TOOH and LD tbg.
17 MIRU WL. PU and RIH with 2" RTG perf gun with 3 spf, 0.5" dia, and 120 deg phasing. Shoot 2' of squeeze holes at 4590'. RDMO WL.
18 Establish circulation with fresh water and biocide. If unable to establish circulation to surface, contact Evans Engineering and make plans to cut and pull csg at 4590'.
19 RU cement company and pump 250 sx of 0:1:0 Class G cement with 0.5% CFR-2, 0.2% FMC, 0.5% LWA, 0.25 pps polyflake mixed at 15.8 ppg and 1.15 cf/sk into squeeze holes. Run wiper plug and displace to 4180' (48 bbls outside csg, 2 bbl inside, cement from 4590' to 4180' inside and outside 2-7/8" csg, 11" hole from caliper, adding 20% excess).
20 MIRU WL. RIH and tag TOC. Notify engineer if depth is lower than 4180'. POOH.
21 PU jet cutter and RIH to 1230', cut 2-7/8" csg. Circulate to remove any gas from wellbore. RDMO WL.
22 ND BOP, ND tbg head. NU BOP on surface csg with 2-7/8" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.
23 RU cement company. Establish circulation with fresh water and biocide and get bottoms up. Using 2-7/8" csg as workstring, pump 10 bbls of SAPP (Sodium Acid Pyrophosphate) and 20 bbls fresh water followed by 530 sx of Type III cement with 0.3% CFL-3, 0.3% CFR-2, 0.25 pps polyflake and CaCl2 mixed at 14.8 ppg and 1.33 cf/sk (cement from 1230' to 340', assuming 11" hole from nearest SX caliper, adding 40%).
24 PUH to 200' and circulate to clear csg. WOC 4 hrs, tag plug with csg. Tag needs to be 440' or higher.
25 MIRU WL. RIH with 8-5/8" CIBP and set at 80'. Pressure test to 1000 psi for 15 min. If pressure holds, RDMO WL and WO rig.
26 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.
27 Supervisor submit paper copies of all

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: 6/3/2015 Email: cheryl.light@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: 7/26/2015

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 1/25/2016

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 1230' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 495' 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
400848476	FORM 6 INTENT SUBMITTED
400848477	PROPOSED PLUGGING PROCEDURE
400848478	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report dated 1/4/1991.	6/10/2015 10:41:51 AM

Total: 1 comment(s)