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: 400689431

Date Received: 09/16/2014

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 05-123-24337-00

Well Name: REYNOLDS Well Number: 24-24

Location: QtrQtr: SENE Section: 24 Township: 3N Range: 68W 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: 40.213650 Longitude: -104.943750

GPS Data:

Date of Measurement: 02/27/2007 PDOP Reading: 1.9 GPS Instrument Operator's Name: CHRIS FISHER

Reason for Abandonment: ☐ Dry ☒ Production for Sub-economic ☐ Mechanical Problems

☐ Other

Casing to be pulled: ☒ Yes ☐ No Estimated Depth: 1450

Fish in Hole: ☐ Yes ☒ No If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes ☒ No If yes, explain details below

Details: Well has Bradenhead pressure and produces condensate. Cost to remediate exceeds value fo well.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7370	7386			
NIOBRARA	7105	7242			

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	768	580	767	0	VISU
1ST	7+7/8	4+1/2	11.6	7,516	545	7,516	3,250	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7025 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 70 sks cmt from 4850 ft. to 3950 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 _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

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

(Cast Iron Cement Retainer Depth)

Set 140 sacks half in. half out surface casing from 1100 ft. to 500 ft. Plug Tagged: ☒

Set 20 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 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call IOC (970-506-5980) at least 24 hr prior to rig move. Request they isolate production equipment and remove any automation prior to rig MIRU.
2 MIRU slickline services. Pull bumper spring and tag bottom. RDMO slickline services.
3 Prepare location for base beam equipped rig. Install perimeter fence as needed.
4 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
6 POOH and stand back 2-3/8" tbg.
7 MIRU WL. RIH w/ gauge ring for 4.5" 11.6# csg to 7100'.
8 RIH and Set 4.5" CIBP at 7025'. PT csg and CIBP to 1000 psi for 15 minutes. RDMO WL.
9 Notify Cementers to be on call.
10 RIH 2-3/8" tbg while hydrotesting to 3000 psi to CIBP at 7025'. Tag CIBP and pick up 5'.
11 RU Cementers. Pump Niobrara plug consisting of 30 cu-ft (20 sx)"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 1.38 cuft/sk. Calculated top in the 4-1/2" csg is 6700'.
12 PUH to 6400' and circulate hole clean. PUH to 4850' laying down tbg.
13 Pump Sussex Balanced plug: 80 cu-ft (70 sks) "G" w/ 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Calculated top of plug at 4300' based in the 4-1/2" csg. PUH to ~3500' and circulate hole clean. WOC per cement company recommendation. RD Cementers.
14 RIH and tag top of plug at 3950'. POOH, standing back 35 jts and laying down the rest.
15 MIRU Wireline. Cut off 4-1/2" csg at 900'. RDMO WL. Circulate using water and biocide to remove all gas from wellbore.
16 ND BOP and wellhead. Install a BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
17 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.
18 RIH w/ 2-3/8" WS open ended 100' past the 4-1/2" csg stub to 1000'.
19 MIRU Cementers. Pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 213 cu-ft (160 sx) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. POH and WOC per cementing company reccomendation. Plug size is based on 8.5" hole with 40% excess covering 1000' to shoe of surface casing at 768' plus capacity of surface casing to 500'. PUH to 150' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.
20 RIH and tag top of plug. Plug needs to be tagged at 568' or shallower. POOH and LD 2-3/8" tbg.
21 RU wireline. Run and set CIBP in the 8-5/8", 24# surface casing at 100'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.
22 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.
23 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
24 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
25 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
26 Welder cut casing minimum 5' below ground level.
27 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
28 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
29 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
30 Back fill hole with fill. Clean location, level.
31 Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

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: 9/16/2014 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: 10/1/2014

CONDITIONS OF APPROVAL, IF ANY: Expiration Date: 3/31/2015

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 1100' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 700' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.

Attachment Check List

Att Doc Num	Name
400689431	FORM 6 INTENT SUBMITTED
400689432	WELLBORE DIAGRAM
400689433	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

User Group	Comment	Comment Date
Permit	Well Completion Report Dated 4/18/2007.	9/25/2014 2:48:49 PM

Total: 1 comment(s)