

FORM
6Rev
12/05State 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:

400795074

Date Received:

02/18/2015

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,

Name: Peterson, Tom

Tel: (303) 815-9641

COGCC contact:

Email: tom.peterson@state.co.us

API Number 05-123-23496-00

Well Name: BARCLAY

Well Number: 15-14

Location: QtrQtr: SWSE Section: 14 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: 40.132430

Longitude: -104.856030

GPS Data:

Date of Measurement: 07/14/2006

PDOP Reading: 2.1

GPS Instrument Operator's Name: CHRIS FISHER

Reason for Abandonment: ☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ OtherCasing to be pulled: ☒ Yes☐ No

Estimated Depth: 1240

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	7504	7520	11/19/2014	B PLUG CEMENT TOP	7170
NIOBRARA	7234	7378	11/19/2014	B PLUG CEMENT TOP	7170

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	964	388	964	0	VISU
1ST	7+7/8	4+1/2	11.6	7,666	435	7,666	3,628	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 80 with 25 sacks cmt on top. CIBP #2: Depth _____ with _____ sacks cmt on top.
CIBP #3: Depth _____ with _____ sacks cmt on top. CIBP #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 35 sks cmt from 4620 ft. to 4210 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

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 200 sacks half in. half out surface casing from 1340 ft. to 860 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 Gyro run 3/3/14.
 2 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6.
 3 MIRU SL. Tag top of cement from prep to P&A at +/- 6770' (tag needs to be above 6830'). Enter tag depth in OpenWells. RDMO SL.
 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 156 jts of 2-3/8" 4.7# J-55 8RD EUE tbq.
 7 MIRU WO rig. Kill well with fresh water and biocide. ND WH, NU BOP.
 8 Notify cementers of the needed volumes: 35 sx class G with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sk (Sussex balanced plug); 200 sx Type III cement with ¼ pps cello flake and CaCl₂ mixed at 14.8 ppg and 1.33 cf/sk (FHM stub plug).
 9 TIH with 2-3/8" tbq to 4620' and circulate water with biocide to clean hole.
 10 MIRU cement company. Spot 35 sx of class G with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sk (cement from 4620' to 4210' inside 4-1/2" csg).
 11 PUH to 4000' and circulate thoroughly with fresh water and biocide to clear tbq. WOC 4 hrs.
 12 Drop down, tag plug with tbq. Tag needs to be 4210' or higher.
 13 TOO. Stand back 1340' of 2-3/8" tbq and LD remainder.
 14 MIRU WL. PU jet cutter and RIH to 1240', cut 4-1/2" csg. Reverse circulate to remove any gas from wellbore. RDMO WL.
 15 ND BOP, ND tbq head. NU BOP on surface csg with 4-1/2" pipe rams. Install 3000 psi ball valves on csg head outlets. Install choke or choke manifold on one outlet.
 16 TOO with 4-1/2" csg and LD.
 17 Uninstall 4-1/2" pipe rams on BOP and install 2-3/8" pipe rams.
 18 TIH with 2-3/8" tbq to +/- 1340', 100' inside 4-1/2" csg stub.
 19 MIRU cement company. Pump 10 bbls SAPP, 20 bbls fresh water and biocide followed with 200 sx of Type III cement with ¼ pps cello flake and CaCl₂ mixed at 14.8 ppg and 1.33 cf/sk (cement from 1340' to 760' over Fox Hills, assume 8" hole from closest caliper, 40% excess).
 20 TOO with 2-3/8" tbq. WOC 4 hrs, tag plug. Tag needs to be 860' or higher. TOO.
 21 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 RDMO WO rig.
 22 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.
 23 Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.
 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 8-5/8" casing minimum 5' below ground level.
 26 Welder cut 8-5/8" casing minimum 5' below ground level.
 27 MIRU Redi Cement mixer. Use 4500 psi compressive strength cement, (NO gravel) to fill stubout.
 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.
 30 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
 31 Back fill hole with fill. Clean location, level.
 32 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: 2/18/2015 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: 3/5/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 9/4/2015

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 1340' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 914' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment. 6) Please submit contractor reports verifying CIBP w/ cement @ 7170' with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400795074	FORM 6 INTENT SUBMITTED
400795081	PROPOSED PLUGGING PROCEDURE
400795083	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Per operator "The Form 6 perf depths are incorrect, but the abandonment date, isolation method, and plug depth are correct. The correct perms are listed below." Niobrara: 7234'-7378' Codell: 7504'-7520'	2/24/2015 11:51:19 AM
Permit	ON HOLD: NB-CD perms don't match Completion report of Wellbore diagram.	2/20/2015 10:29:11 AM
Permit	Well Completion Report dated 7/21/2006.	2/20/2015 10:29:07 AM

Total: 3 comment(s)