

FORM
6Rev
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:

400844329

Date Received:

05/26/2015

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: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-15289-00

Well Name: CLIFFORD

Well Number: L3-6

Location: QtrQtr: SENW Section: 3 Township: 3N Range: 66W 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: 40.255370

Longitude: -104.765200

GPS Data:

Date of Measurement: 06/28/2006

PDOP Reading: 1.9

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: 4590

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	7308	7323			

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	411	230	411	10	VISU
1ST	7+7/8	2+7/8	7.9	7,453	300	7,453	6,460	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7250 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 <u>20</u> sks cmt from <u>7250</u> ft. to <u>6230</u> ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>450</u> sks cmt from <u>4590</u> ft. to <u>3990</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____ sks cmt from _____ ft. to _____ ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 540 sacks half in. half out surface casing from 1050 ft. to 311 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:

Step
 Description of Work
 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 the Automation Removal Group at least 24 hr prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
 2
 MIRU slickline services. Pull bumper spring and tag bottom.
 3
 Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
 4
 Prepare location for base beam equipped rig. Install perimeter fence as needed.
 5
 MIRU, kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt.
 6
 TOOH and stand back 1.66" IJ tbq: 222 jts total landed @ 7271'
 7
 MIRU WL. RIH w/ gauge ring for 2 7/8" 7.9# tbq to 7300'. RIH 2 7/8" CIBP and set at 7250' to abandon Codell perms. Pressure test plug and csg to 3000 psi for 15 minutes.
 8
 RIH 1.66" tbq open-ended to CIBP @ 7250'. Hydro-test tbq to 3000 psi.
 9
 RU cementers and equalize a balanced plug above RBP from 7250' to 6230' as follows: 20 sx "Thermal 35" + 0.5% CFR-2 + 0.25% FMC, mixed at 15.6 ppg and 1.51 cuft/sk. (30 cuft of slurry).
 10
 Pull and LD tbq to ~6000' and reverse circulate clean w/fresh water treated with biocide.
 11
 TOOH and LD 1.66" tbq.
 12

RU WL, RIH w/ chemical cutter or jet cutter and cut 2 7/8" casing at 4590'. Circulate bottoms up and continue circulating to remove any gas from wellbore. RD WL.

13

ND BOP and wellhead. Install BOP on surface casing head with 2 7/8" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet. NOTE: If 2 7/8" csg did not pass PT in step #7, TOOH and hydro-test in to 3000 psi before proceeding to step 14.

14

RU Cementers. Establish circulation down 2 7/8" csg taking returns on surface csg. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement. Note: If unable to circulate, consult Evans Engineering.

15

Pump a balanced cement plug from 4590' to 3990': 450 sx class "G" w/0.25 lb/sk Polyflake 0.5% CFR-2, 0.2% FMC, 0.5% LWA mixed at 15.8 ppg and 1.15 cf/sk. (518 cuft of slurry). Cement volume based on 600' coverage in 11 1/2" open hole with 20% excess.

16

TOH to 2000' and circulate to clear 2 7/8" and wellbore. WOC per cementing company recommendation.

17

TIH and tag top of plug @ 3990'. Lay down 2 7/8" to place EOT at 1050'.

18

Establish circulation and circulate bottoms up.

19

RU cementers. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min) fresh water spacer immediately preceding cement.

20

Pump a balanced plug 1050'-211': 540 sx (718 cuft.) Type III cement w/ 0.25 pps Polyflake, 0.3% CFR-2, 0.3% CFL-3 and 0.5% CaCl₂ mixed at 14.8 ppg and 1.33 cf/sk. Design to fill 639' in 11.5" OH + 40% excess and 200' in 8 5/8" surface casing.

21

TOOH and LD 2 7/8" tbq. WOC per cementing company recommendation. Tag plug; TOC should be 311' or higher. If not, Consult Evans Engineering before proceeding.

22

MIRU WL. RIH 8 5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If tests, RDMO WL and WO rig.

23

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.

24

Supervisor submit paper copies of all invoices, logs, and reports to Evans Engineering Specialist.

25

Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.

26

Excavate hole around surface casing enough to allow welder to cut 8 5/8" casing minimum 5' below ground level.

27

Welder cut 8 5/8" casing minimum 5' below ground level.

28

Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).

29

Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.

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: 5/26/2015 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: 6/28/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 12/27/2015

<u>COA Type</u>	<u>Description</u>
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) If unable to pull casing below 4000' contact COGCC for plugging modifications. 3) For 1050' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 361' 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) No open hole logs on file. Please submit open hole logs (DIL/SFL-GR, FDC, CD-GR) with Form 6 (s) Subsequent Report of Abandonment or file them attached to a form 4 sundry.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400844329	FORM 6 INTENT SUBMITTED
400844342	WELLBORE DIAGRAM
400844343	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 12/5/1991.	5/29/2015 9:28:06 AM

Total: 1 comment(s)