

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:

400692076

Date Received:

09/21/2014

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,

Name: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-14367-00

Well Name: HSR-TANDOWSKY

Well Number: 8-21

Location: QtrQtr: SENE Section: 21 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: 40.212200

Longitude: -104.775120

GPS Data:

Date of Measurement: 01/31/2006

PDOP Reading: 3.3

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: 1200

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	7375	7390			
NIOBRARA	7091	7155			

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	753	225	753	0	VISU
1ST	7+7/8	4+1/2	11.6	7,497	190	7,497	6,540	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7000 with 30 sacks cmt on top. CIBP #2: Depth 80 with 25 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 30 sks cmt from 7000 ft. to 6600 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 4540 ft. with 200 sacks. Leave at least 100 ft. in casing 4130 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 250 sacks half in. half out surface casing from 1300 ft. to 550 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:

5 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
6 TOOH and stand back 2 3/8" production tubing (229 jts landed @ 7338').
7 MIRU WL. RIH gauge ring for 4 1/2" 11.6 #/ft casing to 7100'. POOH.
8 Set CIBP at 7000' to abandon Codell and Niobrara perms. Pressure test CIBP to 1000 psi.
9 RIH 2 3/8" tubing to 7000' while hydrotesting to 3,000 psi.
10 RU Cementers. Pump Niobrara/Codell plug w/ 2 3/8" tubing: 30 sx (41.4 cuft) Class "G" w/ 20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 mixed at 15.8 ppg and 1.38 cuft/sx to place plug from 7000' to 6600'. Volume based on 400' inside 4 1/2" casing, no excess. RD Cementers.
11 PUH to 6400' and circulate to clear tubing. POOH.
12 MIRU WL. RIH with 2-1' 3-1/8" perf guns with 3 spf, 0.5" diam 120° phasing. Shoot 1' of squeeze holes at 4540' and 4100'. RDMO WL.
13 PU 4 1/2" CICR and RIH on 2 3/8" tubing. Set CICR @ 4130'.
14 RU Cementers. Establish injection through squeeze holes. Pump 5 bbl water w/ biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement. Pump Sussex Suicide Squeeze: 200 sx (230 cuft) class G w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sx to place plug from 4540' to 4100'. Underdisplace by 3 bbls and unsting from CICR spotting at least 100' cement on top of squeeze holes. Volume based on 540' inside 4 1/2" casing with no excess plus 440' in 8.5" open hole with 40% excess. RD Cementers.
15 PUH to 3800', circulate hole clean using fresh water w/ biocide. POOH, standing back 1300', LD remainder.
16 MIRU WL. Shoot off casing at or below 1200'. RDMO WL. Circulate one full circulation with water containing biocide to remove any gas.
17 NDBOP, NDTH. Install BOP on casing head with 4 1/2" pipe rams.
18 POOH with 1200' of 4 1/2" casing, LD. Remove 4 1/2" pipe rams and install 2 3/8" pipe rams.
19 RIH with 2 3/8" WS to 1300'.
20 RU Cementers. Precede cement with 10 bbl SAPP and a 20 bbl (min) fresh water spacer. Spot Stub Plug: 250 sx (333 cuft) Type III w/ cello flake and CaCl₂ as deemed necessary at 14.8 ppg and 1.33 cuft/sx (100' inside 4 1/2" production casing with no excess, 447' in 8.5" open hole with 40% excess, 203' inside surface casing with no excess). The plug will cover 1300' - 550'. RD cementers.
21 Trip up to 100' and circulate WS clean using fresh water treated with biocide. TOOH.
22 WOC 4 hrs. Tag cement. Cement top needs to be above 550'.
23 MIRU WL. RIH 8 5/8" CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.
24 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.
25 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
26 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
27 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
28 Welder cut casing minimum 5' below ground level.
29 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
30 Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
31 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
32 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
33 Back fill hole with fill. Clean location, level.
34 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: 9/21/2014 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: 10/6/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 4/5/2015

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 1300' 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. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.
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Attachment Check List

Att Doc Num**Name**

400692076	FORM 6 INTENT SUBMITTED
400692077	PROPOSED PLUGGING PROCEDURE
400692078	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

User Group**Comment****Comment Date**

Permit	Well Completion Report Dated 5/3/1990 & 10/13/1993.	10/1/2014 9:32:58 AM
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Total: 1 comment(s)