

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:

400822687

Date Received:

04/09/2015

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 05-123-18116-00

Well Name: HSR-B/R

Well Number: 3-21

Location: QtrQtr: NENW Section: 21 Township: 3N 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: 40.216430

Longitude: -104.897200

GPS Data:

Date of Measurement: 08/28/2006

PDOP Reading: 2.5

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: 810

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	7048	7068			
NIOBRARA	6796	6908			

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	554	390	554	10	VISU
1ST	7+7/8	4+1/2	11.6	7,181	200	7,181	5,830	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6750 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 6730 ft. to 6300 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 4330 ft. with 165 sacks. Leave at least 100 ft. in casing 3950 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 155 sacks half in. half out surface casing from 910 ft. to 454 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
6 POOH and stand back 2-3/8" tbg. (221 jnts landed at 7010').
7 MIRU wireline. Run gauge ring for 4-1/2" 11.6# casing to 6800'. PU 4-1/2" CIBP RIH and set at +/- 6730'. POOH and RD wireline
8 Notify Cementers to be on call.
9 RIH with 2-3/8" tbg while hydrotesting to 3000 psi and tag CIBP set at 6730'. Record tag depth. Circulate gas out of the hole from just above tag depth.
10 MIRU cementers. Pump Nio balanced casing plug: Pump 30 sks (7.4 bbl) of Cement Blend: "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 designed for coverage above CIBP from 6730' to 6300'.
11 PUH 40 jts and circulate hole clean with fresh water and biocide. POOH standing back 125 jt.
12 MIRU WL. PU two 3-1/8" perf guns w/ 0.6" diam, 120 phasing and shoot 1' of squeeze holes at 4330' and 2' of squeeze holes at 3920'. RDMO WL.
13 PU 4-1/2" CICR on 2-3/8" tbg, RIH and Set CICR at 3950'. Establish circulation through sqz holes.
14 RU Cementers. Pump Sussex Suicide plug: Pump 5 bbls fresh water followed by 20 bbls sodium metasilicate followed by 5 bbls fresh water ahead of cement: 165 sks (33.8 bbls) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of CICR to leave 150' on top of CICR and sqz holes. Volume based on 8-1/2" x 4-1/2" annulus with 20% excess from 4330' to 3920', and 4-1/2" casing from 4330' to 3750'. RD Cementers.
15 PUH 6 stands and circulate hole clean with fresh water and biocide. POOH standing back 29 jts.
16 MIRU WL. Crack coupling or jet cut 4-1/2" csg at 810'. Circulate approximately 120 bbls of fresh water and biocide to remove any gas from wellbore.
17 ND BOP and tubing head. 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.
18 POOH and LD 4-1/2" csg. Remove the 4-1/2" pipe rams and Install 2-3/8" pipe rams.
19 RIH w/ 2-3/8" WS open ended ~100' past the 4-1/2" csg stub to 910'.
20 MIRU Cementers. Establish circulation and pump Fox Hills Balanced plug: Pump mud flush of 10 bbls SAPP followed by 20 bbls water ahead of 155 sx (36.7 bbls) 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 recommendation. Plug size is based on 4-1/2" casing from 910' to 810' and 8-1/2" hole with 20% excess covering 810' to shoe of surface casing at 554' plus capacity of surface casing to 354'. PUH to 300' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.
21 RIH and tag top of plug. Plug needs to be tagged at 454' or shallower. POOH and LD 2-3/8" tbg.
22 RU wireline. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline. RDMO workover rig.

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: 4/9/2015 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: 5/26/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 11/25/2015

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 910' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 504' 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.

Attachment Check List

Att Doc Num	Name
2451239	WELLBORE DIAGRAM
400822687	FORM 6 INTENT SUBMITTED
400822922	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Corrected Codell interval and attached corrected wellbore diagram.	4/14/2015 3:58:22 PM
Permit	Requested correction for Codell perforation. Wellbore diagram reflects incorrect perfs.	4/14/2015 11:39:42 AM

Total: 2 comment(s)