

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:

400689406

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,

Name: Carlile, Craig

Tel: (970) 629-8279

COGCC contact:

Email: craig.carlile@state.co.us

API Number 05-123-17770-00

Well Name: PSC

Well Number: 43-9A

Location: QtrQtr: NESE Section: 9 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: 40.238640

Longitude: -104.888140

GPS Data:

Date of Measurement: 03/08/2006

PDOP Reading: 2.4

GPS Instrument Operator's Name: Steve Fisher

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

Estimated Depth: 780

Fish in Hole: ☒ Yes☐ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☒ No

If yes, explain details below

Details: 150' of 2-3/8" tubing and packer stuck in 3.5" casing from 7033' to 7183'. Multiple unsuccessful attempts have been made to remove fish.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7080	7090			
J SAND	7528	7576			
NIOBRARA	6868	6874			

Total: 3 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	361	300	361	0	CALC
1ST	7+7/8	3+1/2	7.7	7,295	240	7,295	6,270	CBL
1ST LINER	3	2+3/8	4.7	7,670	14	7,670	7,213	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 30 sks cmt from 7033 ft. to 6378 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 4305 ft. with 220 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 260 sacks half in. half out surface casing from 880 ft. to 160 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:

2 *Note that wireline rope socket and broken plunger are stuck in tubing at +/- 6842'. Four prior attempts to retrieve equipment have failed*

3 Prepare location for base beam equipped rig. Install perimeter fence as needed.

4 Check and report surface casing pressure. If surface casing is not accessible at ground level, re-plumb so valve is at ground level

5 MIRU WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.

6 Unland 2-1/16" tbg (210 total joints landed at 6847') and TOO H standing back all 2-1/16" tubing. Remove rope socket, broken plunger, and other junk from tubing.

7 MIRU hydrotester. Hydrotest 2-1/16" tubing to 3000psi while TIH open ended. Tag fish in the 3-1/2" casing at expected depth of 7033' (145' of 2-3/8" tubing and packer left downhole on 6/16/09). Document tagged fish depth in OpenWells daily report.

8 PUH no more than 1 joint above the tagged fish depth and establish circulation pumping water with biocide.

9 MIRU cementing services. Establish circulation with water and pump 30 sx Class "G" cement with 20% silica flour, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.38 cuft/sx (cement volumes based on 3-1/2" casing capacity from 7033' to 6226' with no excess). Displace cement to estimated TOC at 6226' using approx. 18.5 bbls water. TOO H and stand back 16 stands of 2-1/16" tubing so EOT at +/- 6026'. Reverse circulate using approx. 36 bbls water (2 times tubing volume) or until returns are clean. RDMO cementing services.

10 TOO H and stand back enough 2-1/16" tubing to tag cement plug with estimated top at +/- 6226'. LD extra tubing. WOC to set up per cementing company recommendation.

11 PU and TIH with 2-1/16" tubing to tag cement plug at +/- 6226'. If cement is not above 6378' contact engineer, otherwise proceed to next step.

12 TOO H and stand back 4000' of 2-1/16" tubing and LD extra tubing.

13 MIRU wireline. PU and RIH with 2-1/2" perf guns and shoot squeeze holes at 4305' using 3 SPF, 0.48" EHD, 8" penetration, 1' net, 3 total shots. POOH with perf guns. RDMO wireline.

14 MIRU cementing services on the 3-1/2" production casing. Establish circulation with water and pump 20 bbls sodium metasilicate followed by 220 sx Class "G" cement with 0.25 pps cello flake, 0.4% CD-32 and 0.4% ASA-301 mixed at 15.8ppg and 1.15 cuft/sx (cement volumes based on 10" caliper plus 20% excess from 4305' to 3905' and 3-1/2" casing capacity from 4305' to 3905'). Drop wiper plug and displace to 3905' using 35.5 bbls water. RDMO cementing services. WOC to set up per cementing company recommendation.

15 TIH w/ 2-1/16" tubing and tag cement plug @ +/- 3905'. If cement is not above 3905' contact engineer, otherwise proceed to next step.

16 TOO H and stand back 880' of 2-1/16" tubing and LD extra tubing.

17 MIRU wireline. RIH and jet cut 3-1/2" production casing at 780'. RDMO wireline. Circulate bottoms up and continue circulating to remove any gas from wellbore.

18 ND BOP. Install BOP on surface casing head with 3-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.

19 TOO H and LD 780' of 3-1/2" casing.

20 TIH w/ 2-1/16" tubing open ended to 880' (100' inside the 3-1/2" stub).

21 MIRU cementing services. Establish circulation with water and pump balanced stub plug using 260 sx Type III cement with cello flake and CaCl₂ as necessary, mixed at 14 ppg and 1.53 cuft/sx (cement volumes based on 100' inside 3-1/2" casing, 419' in 10" hole with 40% excess, and 200' in 8-5/8" surface casing). RDMO cementing services.

22 TOO H and LD 2-1/16" tubing until EOT at +/- 100'. Circulate down tubing and up surface casing/tubing annulus until returns are clean to ensure CIBP can be set in clean surface casing. Finish TOO H and LD 2-1/16" tubing. WOC to set up per cementing company recommendation.

23 PU and TIH with 2-1/16" tubing to tag cement plug @ +/- 160'. If cement is not above 160' contact engineer, otherwise proceed to next step.

24 TOO H and LD all.

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: 9/29/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 3/28/2015

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 880' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 311' 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

<u>Att Doc Num</u>	<u>Name</u>
400689406	FORM 6 INTENT SUBMITTED
400689408	PROPOSED PLUGGING PROCEDURE
400689409	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 3/8/1994 & 3/11/2002.	9/19/2014 3:24:58 PM

Total: 1 comment(s)