

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



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Document Number:

400713730

Date Received:

10/21/2014

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 05-123-15704-00

Well Name: BELL

Well Number: L12-2

Location: QtrQtr: NWNE Section: 12 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: 40.245630

Longitude: -104.722860

GPS Data:

Date of Measurement: 06/21/2006

PDOP Reading: 2.5

GPS Instrument Operator's Name: Paul Tappy

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

Estimated Depth: 1370

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks: ☐ Yes☒ No

If yes, explain details below

Details: Casing Patch at 6200'

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7389	7404			
NIOBRARA	7098	7250			

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	502	290	502	0	CALC
1ST	7+7/8	2+7/8	8.7	7,537	200	7,537	6,758	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7020 with 25 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 25 sks cmt from 7020 ft. to 6100 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 4500 ft. with 270 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 660 sacks half in. half out surface casing from 1370 ft. to 302 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 WO rig. Kill well as necessary with water and biocide. ND wellhead. NU BOP.
 6 Unland 1.66" tbg (222 total joints landed at 7365') and TOOHH standing back 7020' of 1.66" tubing.
 7 MIRU wireline. RIH with junk basket/gauge ring (2-7/8" 8.7#) to 7070'. POOH. PU and RIH with CIBP (2-7/8", 8.7#) to set at 7020' (collars at 7006' and 7036'). POOH.
 8 Run gyro survey inside 2-7/8" production casing from 7000' (~100' above top Niobrara perfs) to surface with stops every 100'. Forward gyro survey data and invoices to Sabrina Frantz. RDMO wireline.
 9 MIRU hydrotester. Hydrotest 1.66" tubing to 3000psi while TIH open ended. Tag CIBP set at 7020'. PUH just above CIBP and circulate all gas out of the hole. Pumping water with biocide, pressure test the CIBP and production casing to 2500psi for 15 minutes. If pressure test passes, proceed to next step; otherwise contact engineering for revised procedure steps to hydrotest 2-7/8" casing back in hole to spot stub plug prior to step 18.
 10 MIRU cementing services. Establish circulation with water and pump 25 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 2-7/8" 8.7# casing capacity from 7020' to 6000' with no excess). Displace cement to estimated TOC at 5780' using approx. 10.5 bbls water. TOOHH so EOT at +/- 5580'. Reverse circulate using approx. 21 bbls water (2 times tubing volume) or until returns are clean. RDMO cementing services.
 11 TOOHH and lay down all 1.66" tubing.
 12 MIRU wireline. PU and RIH with 1-11/16" perf guns and shoot squeeze holes at 4500' using 6 SPF, 0.37" EHD, 1' net, 6 total shots. POOH with perf guns. RDMO wireline.
 13 Establish circulation to through squeeze holes to surface with water. If circulation is established, proceed to next step; otherwise contact engineering for revised procedure steps.
 14 MIRU cementing services on the 2-7/8" production casing. Establish circulation with water and pump 20 bbls sodium metasilicate followed by 270 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 11" caliper plus 20% excess from 4500' to 4100' and 2-7/8" 8.7# casing capacity from 4500' to 4100'). Drop wiper plug and displace to 4100' using 20 bbls water. RDMO cementing services. WOC to set up per cementing company recommendation.
 15 MIRU wireline. RIH with sinker bars to tag cement plug @ +/- 4100'. If cement is not above 4100' contact engineer, otherwise proceed to next step.
 16 RIH and jet cut 2-7/8" production casing at 1370'. RDMO wireline. Circulate bottoms up and continue circulating to remove any gas from wellbore.
 17 ND BOP. 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.
 18 MIRU cementing services. Establish circulation through 2-7/8" casing with water and pump 10 bbls SAPP mud flush, 20 bbls fresh water spacer, then balanced stub plug using 660 sx Type III cement with cello flake and CaCl₂ as necessary, mixed at 14.8 ppg and 1.33 cuft/sx (cement volumes based on 868' in 11" hole with 40% excess, and 200' in 8-5/8" surface casing). RDMO cementing services.
 Bell L 12-2: Plug & Abandonment
 19 TOOHH and LD 2-7/8" casing until end of casing is at +/- 200'. Circulate down 2-7/8" production casing and up surface casing/production casing annulus until returns are clean to ensure CIBP can be set in clean surface casing. Finish TOOHH and LD 2-7/8" casing. WOC to set up per cementing company recommendation.
 20 PU and TIH with 2-7/8" workstring to tag cement plug at +/- 300'. If cement is not above 302' contact engineer, otherwise proceed to next step.
 21 MIRU wireline. PU and RIH with CIBP (8-5/8", 24#/ft). Set CIBP at 80' and pressure test the CIBP to 1000psi for 15mins. If pressure test fails contact engineering, otherwise proceed to next step.
 22 RDMO wireline. RDMO WO 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: 10/21/2014 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: 11/19/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/18/2015

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 1370' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 450' 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.

Attachment Check List

Att Doc Num**Name**

400713730	FORM 6 INTENT SUBMITTED
400713732	PROPOSED PLUGGING PROCEDURE
400713733	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

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

Engineer	Added sq w/ 270 sxs @ 4500 from procedure to form 6	11/19/2014 8:52:33 AM
Permit	Well Completion Report dated 9/21/1992 & 7/8/1996.	10/29/2014 2:06:48 PM

Total: 2 comment(s)