

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:

400826805

Date Received:

04/16/2015

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 05-123-18321-00

Well Name: HSR-B/R

Well Number: 8-20

Location: QtrQtr: SENE Section: 20 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: 40.212910

Longitude: -104.906600

GPS Data:

Date of Measurement: 07/02/2008

PDOP Reading: 3.8

GPS Instrument Operator's Name: Cody Mattson

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

Estimated Depth: 800

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	7075	7082			
NIOBRARA	6908	6911			

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	613	430	613	0	VISU
1ST	7+7/8	2+7/8	6.5	7,197	175	7,197	6,330	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6850 with 20 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 20 sks cmt from 6850 ft. to 6000 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 4290 ft. with 210 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 140 sacks half in. half out surface casing from 800 ft. to 513 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 slick line. Pull bumper spring and tag bottom. Note tag depth in OpenWells. RDMO slickline services.

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

7. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.

8. MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing joint.

9. POOH and SB 7045' of tubing.

10. Notify cementers to be on call. Provide volumes listed below:

10.1 Nio/Cd Balanced Plug: 20 sks (4.8 bbls) of class "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 (6850'-6000' inside 2 7/8", 6.5# casing, no excess)

10.2 SX Circulate Squeeze: 210 sks class "G", 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk for a total of 43 bbl of slurry (410' inside 2 7/8", 6.5# casing, no excess and 410' in 9-1/2" borehole diameter annular section with 20% excess).

10.3 Balanced Plug: 140 sks of Type III cement, with ¼ # per sk cello flake and CaCl₂ a necessary, mixed at 14.8 ppg and 1.33 cuft/sk for a total of 33.1 bbl of slurry (187' inside 9-1/2" OH + 20% excess, and 200' inside 8-5/8" surface casing).

11. MIRU Warrior wireline. Run gauge ring for 2 7/8" OD, 6.5# to 6900'. Run gyro from 6900' to surface.

12. PU and RIH with CIBP for 2 7/8" OD, 6.5#/ft, J-55 casing. Set CIBP at 6850'. POOH

13. Pressure test casing and CIBP to 3,000 psi and hold for 15 minutes. Call engineering if test fails. RDMO wireline.

14. Hydro test to 3000 psi while RIH with 1.66" OD tubing to CIBP at 6850'. Tag and record depth.

15. MIRU cementers.

16. Establish circulation and pump 20 sks (4.8 bbls) of class "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 (6850'-6000' inside 2 7/8", 6.5# casing, no excess)

17. PUH to 5700' and circulate clean. POOH LD 1.66" OD tubing.

18. MIRU wireline.

19. PU two 1-1/16" perf gun with 6 spf, 60 degree phasing, .37" EHD and 2.70" penetration. Shoot 2' of perfs at 4290' for a total of 12 holes. RDMO WL.

20. Establish circulation with fresh water and biocide and circulate until clean. If unable to establish circulation to surface with good rate, contact engineer to discuss potential of cutting the casing at 4290'.

21. MIRU Cementers. Precede cement with 20 bbl of SMS and a 10 bbl fresh water spacer immediately preceding cement.

22. Pump 210 sks class "G", 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk for a total of 43 bbl of slurry (410' inside 2 7/8", 6.5# casing, no excess and 410' in 9-1/2" borehole diameter annular section with 20% excess). Displace with wiper plug and 22 bbls of water to place top of cement at 3880'. Shut well in to prevent cement flow-back.

23. WOC 4 hours or recommended time by cementing services.

24. MIRU WL. Tag top of cement with sinker bar. If not above 3880' call Evans engineering to discuss options.

25. Shoot off casing at or below 800'. RDMO WL.

26. Circulate water containing biocide down casing and up annulus through open bradenhead valve to remove any gas. Be sure to circulate until there is no pressure, gas, or condensate remaining.

27. ND BOP, ND TH.

28. Install BOP on 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.

29. Unland 2 7/8" casing and establish circulation.

30. MIRU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Pump Balanced Plug down 2 7/8" casing: 140 sks of Type III cement, with ¼ # per sk cello flake and CaCl₂ a necessary, mixed at 14.8 ppg and 1.33 cuft/sk for a total of 33.1 bbl of slurry (187' inside 9-1/2" OH + 20% excess, and 200' inside 8-5/8" surface casing).

31. PUH to 300'. Circulate with water containing biocide to clean tubing until clear.

32. TOOH. WOC 4 hrs. Tag Cement with tbg. If cement top is at or above 513' proceed to next step,

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: 4/16/2015 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 800' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 563' 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>
400826805	FORM 6 INTENT SUBMITTED
400826806	PROPOSED PLUGGING PROCEDURE
400826807	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 10/11/1994.	4/27/2015 1:41:31 PM

Total: 1 comment(s)