

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



DE ET OE ES

Document Number:

400713798

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 05-123-20098-00

Well Name: STRONG P

Well Number: 21-7 JI

Location: QtrQtr: SWNE 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: 40.212610

Longitude: -104.893760

GPS Data:

Date of Measurement: 07/09/2007

PDOP Reading: 2.2

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: 930

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
J SAND	7495	7548			

Total: 1 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	619	465	619	0	VISU
1ST	7+7/8	4+1/2	11.6	7,660	160	7,660	6,569	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7410 with 0 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 _____ 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: ☐
Set _____ sks cmt from _____ ft. to _____ ft. Plug Type: _____ Plug Tagged: ☐

Perforate and squeeze at 6540 ft. with 100 sacks. Leave at least 100 ft. in casing 6430 CICR Depth

Perforate and squeeze at 4800 ft. with 350 sacks. Leave at least 100 ft. in casing 3830 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 930 ft. to 410 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:

Perforate and squeeze at 6540' - 6400' ft. with 100 sacks Leave at least 100 ft. in casing 6430' CICR Depth
 Perforate and squeeze at 4800' - 3800' ft. with 350 sacks Leave at least 100 ft. in casing 3830' CICR Depth
 6. MIRU, kill well as necessary using clean fresh water with biocide and circulate. ND WH. NU BOP. Unseat landing jt, LD.
 7. Notify cementers to be on call. Provide volumes listed below:
 7.1 Niobrara Plug: 171 cu ft/ 100 sx 50/50 Poz "G" w/20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 Mixed at 13.5 ppg and 1.71 cuft/sk yield (150' inside 8" OH + 20% excess and 150' inside 4-1/2" casing).
 7.2 SX Suicide: 402 cu ft/ 350 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (1000' between 8.25" OH + 20% excess. 1000' inside 4 1/2" casing, no excess).
 7.3 Stub Plug: 239 cu ft/ 180 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (100' inside 4-1/2" csg, 313' in 8.25" OH + 40% excess, and 209' in 8-5/8" surface casing).
 8. TOO H 2-3/8" production tubing. Stand back 6430' of tb. LD remaining.
 9. MIRU WL. RIH gauge ring for 4-1/2" 11.6#/ft casing to 7480'. POOH.
 10. RIH CIBP w/ WL. Set at +/- 7410'. POOH. PT CIBP to 1000 psi for 15 minutes. Dump bail 2 sx class "G" cement on CIBP.
 11. PUH to 7000' and circulate all gas out of the hole and ensure the hole is full. POOH.
 12. Run CBL from CIBP to Surface to verify there is no cement above 6550'. Send results to Tyler.Davis@anadarko.com and Brent.Marchant@anadarko.com immediately. Do not proceed without engineering consent. If there is any cement present around the SN/SX or Fox Hills we will need to re-evaluate cement jobs.
 13. PU two 1' x 3-1/8" perf guns with 3 spf, 0.5" dia 120deg phasing. Shoot 1' of squeeze holes at 6540' and 6400'. RD WL.
 14. PU CICR and RIH on 2-3/8" tb. while hydrotesting tb. to 3000 psi. Set CICR at approximately 30' below the top perf.
 15. RU Cementers. Pump Niobrara Suicide: 171 cu ft/ 100 sx 50/50 Poz "G" w/20% silica flour, 3% gel, 0.1% sodium metasilicate and 0.4% FL-52 mixed at 13.5 ppg and 1.71 cuft/sk yield to place suicide squeeze between perms from 6550' to 6400' (8.25" OH + 20% excess). Underdisplace and sting out of CICR to leave 3 bbls on top of retainer.
 16. PUH to 6000'. Circulate 95 bbls water containing biocide to clear tubing. Then, TOO H and SB 3830' of tb.
 17. PU two 1' x 3-1/8" perf guns with 3 spf, 0.5" dia 120deg phasing. Shoot 1' of squeeze holes at 4800' and 3800'.
 18. PU and RIH w/ CICR and 2-3/8" tubing and set CICR at 3830'.
 19. RU Cementers. Pump 5 bbl water w/biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer immediately preceding cement.
 20. Pump SX Suicide: 402 cu ft/ 350 sx class "G" w/0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cf/sx (1000' in 8.25" OH + 20% excess and 1000' inside 4-1/2" casing) to place suicide squeeze between perms from 4800' to 3800'. Under displace and sting out of CICR to leave 3 bbls on top of retainer.
 21. PUH 3500'. Circulate 55 bbls water containing biocide to clear tubing. Then, TOO H and LD all but 1030' of tb.
 22. RU WL. Shoot off casing at or below 930'. RDMO WL. Circulate water containing biocide to remove any gas.
 23. NDBOP, NDTH.
 24. Install BOP on casing head with 4-1/2" pipe rams.
 25. TOO H with 4-1/2" casing, LD.
 26. RIH with 2-3/8" tubing to 1030'.
 27. RU Cementers. Pump 10 bbl SAPP with a minimum of 20 bbl fresh water spacer. Spot Stub Plug: 239 cu ft/ 180 sx Type III CaCl2 cement w/0.25 pps cello flake mixed at 14.8 ppg and 1.33 cf/sx (100' in 4-1/2" prod casing, 313' in 8.25" OH + 40% excess, and 209' in 8-5/8" surface casing) from 930' to 410'.
 28. PUH to 200' and circulate 15 bbls water containing biocide.
 29. TOO H. WOC 4 hrs. Tag Cement. Cement top needs to be above 410'; Proceed assuming TOC is above 410'. Otherwise, call production engineer.
 30. MIRU WL. RIH 8-5/8" CIBP to 80'. Set, PT to 1000 psi

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: 11/24/2014

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 5/23/2015

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 930' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 569' 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

<u>Att Doc Num</u>	<u>Name</u>
400713798	FORM 6 INTENT SUBMITTED
400713799	PROPOSED PLUGGING PROCEDURE
400713800	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 2/14/2001.	10/31/2014 2:52:21 PM

Total: 1 comment(s)