

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:

400924847

Date Received:

10/26/2015

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: REBECCA HEIM

Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP

Phone: (720) 929-6361

Address: P O BOX 173779

Fax: (720) 929-7361

City: DENVER State: CO Zip: 80217-

Email: REBECCA.HEIM@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 05-123-15516-00

Well Name: ODENBAUGH

Well Number: 12-2L

Location: QtrQtr: NWNE Section: 12 Township: 3N Range: 67W Meridian: 6

County: WELD

Federal, Indian or State Lease Number: 63134

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: 40.245180

Longitude: -104.836440

GPS Data:

Date of Measurement: 07/10/2007

PDOP Reading: 4.4

GPS Instrument Operator's Name: Paul Tappy

Reason for Abandonment:

☐ Dry☒ Production for Sub-economic☐ Mechanical Problems☐ Other

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 966

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	7274	7296			

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	23	516	325	516	0	VISU
1ST	7+7/8	4+1/2	11.6	7,408	200	7,408	6,334	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7200 with 40 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 40 sks cmt from 7200 ft. to 6500 ft. Plug Type: CASING Plug Tagged: ☐
Set 11 sks cmt from 3980 ft. to 3830 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: ☐

Perforate and squeeze at 4370 ft. with 220 sacks. Leave at least 100 ft. in casing 3980 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 290 sacks half in. half out surface casing from 1066 ft. to 416 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:

1. Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment and remove any automation prior to rig MIRU.
2. Arrange for 72 bbls of 9.0 ppg MUD to be used prior to the stub plug.
3. MIRU slickline. Pull bumper spring and tag bottom. Record tag depth in Open Wells. Run pressure bomb and obtain pressure gradient survey from surface to 7285' (halfway between Codell perfs) making gradient stops every 1000'. Forward pressure bomb results to Evans Engineering. Note: Do not run the BHP Survey after blowing down or killing the well with fluid. RD slickline.
4. Prepare location for base beam equipped rig. Install perimeter fence as needed.
5. Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL. The last Form 17 test on 3/16/2015 recorded a Bradenhead pressure of 31 to 1 psi, 1 gallon of water was produced, and pressure rose to 3 psi after 15 minutes of buildup.
6. Blow-down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi. Contact Evans Engineering if pressure does not report at 0 psi the next day.
7. MIRU WO rig. Kill well as necessary using clean fresh water with biocide. ND WH. NU BOP with 2-3/8" pipe rams. Unseat landing joint, and LD.
8. TOO H and SB 7230' 2-3/8" tubing.
9. PU scraper and RIH to 7230' for 4-1/2" 11.6 lb/ft casing. TOO H, SB 7200' 2-3/8" tubing, and LD scraper.
10. RU hydrotesters. PU 4-1/2" CIBP, and RIH on 2-3/8" tubing to 7200' while hydrotesting to 3000 psi. Set CIBP at 7200' to isolate the Codell perfs located at 7274'-7296'. PU 5', circulate gas out of the hole, and pressure test CIBP to 1000 psi for 15 minutes. RD hydrotesters. Monitor bradenhead pressure during test. Contact Evans Engineering if the bradenhead pressure is affected by the casing test.
11. TOO H, SB 7200' 2-3/8" tubing, and LD CIBP setting tool.
12. TIH with tubing to 7200'.
13. RU cementers. Pump Niobrara plug: 40 sxs (61 cf) Thermal 35 +0.5% CFR-2+0.25% FMC, mixed at 15.6 ppg & 1.51 cf/sk. The plug will cover 7200' to 6500'. Volume is based on 700' inside 4-1/2" production casing with no excess. RD cementers.
14. Slowly pull out of the cement and PUH to 6300'. Reverse circulate tubing clean to ensure no cement is left in the tubing. TOO H and SB 3980' 2-3/8" tubing.
15. RU WL. PU and RIH with two 3-1/8" perf guns with 3 spf, 0.50" EHD, 120° phasing. Shoot 1' of squeeze holes at 4370' and 2' at 3950'. RD WL.
16. PU 4-1/2" CIBP and RIH on 2-3/8" tubing to set CIBP at 3980'.
17. RU Cementers. Establish circulation through squeeze holes, and pump 5 bbls water with biocide, 20 bbls sodium metasilicate, and another 5 bbls spacer immediately preceding cement. Pump Sussex suicide squeeze: 220 sxs (253 cf) 0:1:0 'G'+0.5% CFR-2+0.2% FMC+0.5% LWA+0.25 lb/sk Polyflake, mixed at 15.8 ppg & 1.15 cf/sk Under-displace by 2.3 bbls and un-sting from CIBP spotting a minimum 100' of cement over the TOP squeeze holes. The plug will cover 4370' - 3830'. Volume is based on 420' in 9.75" OH from caliper with 20% excess, and 540' in 4-1/2" production casing with no excess. RD cementers.
18. Slowly pull out of the cement and PUH to 3600'. Circulate to ensure no cement is left in the tubing. TOO H and SB 1066' 2-3/8" tubing.
19. RU WL. RIH and cut casing at 966'. RD WL.
20. Circulate with fresh water containing biocide to remove any gas.
21. Un-land casing. ND BOP, ND TH. Install BOP on casing head with 4-1/2" pipe rams.
22. TOO H and LD 966' of 4-1/2" casing. Remove 4-1/2" pipe rams and install 2-3/8" pipe rams.
23. RIH with 2-3/8" tubing to 1066'.
24. Establish circulation with 9.0 ppg minimum MUD, and get bottoms up. NOTE: Due to water-well concerns in this area, it is very important to circulate MUD
21. Un-land casing. ND BOP, ND TH. Install BOP on casing head with 4-1

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: REBECCA HEIM
Title: SR. REGULATORY ANALYST Date: 10/26/2015 Email: rscdjpostdrill@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: SUTPHIN, DIRK Date: 12/14/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 6/13/2016

<u>COA Type</u>	<u>Description</u>
	1) Provide 48 hour notice of MIRU via electronic Form 42. 2) Regarding 290 sx at 1066'-416': Set stub/shoe plug(s) from 50' below stub to 50' above stub and from 50' below surface casing shoe to 50' above surface casing shoe. Tag plug. 3) Regarding 15 sks at surface: Cement from 50' to surface. 4) Properly abandon flowlines as per Rule 1103. File Form 42 when abandonment complete. 5) Abandoned well marker shall be inscribed with the well's legal location, well name and number, and API Number, as per Rule 319.a.(5).

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400924847	FORM 6 INTENT SUBMITTED
400924855	WELLBORE DIAGRAM
400924856	PROPOSED PLUGGING PROCEDURE

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 6/30/1992	11/5/2015 3:15:27 PM
Public Room	Document verification complete 10/27/15	10/27/2015 10:07:41 AM

Total: 2 comment(s)