

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

Replug By Other Operator

Document Number:

400767101

Date Received:

01/08/2015

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: Montoya, John

Tel: (970) 397-4124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-123-15759-00

Well Name: REHDER

Well Number: X 6-14

Location: QtrQtr: SESW Section: 6 Township: 2N Range: 65W 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: 40.161737

Longitude: -104.708573

GPS Data:

Date of Measurement: 08/29/2014

PDOP Reading: 1.8

GPS Instrument Operator's Name: OWEN MCKEE

Reason for Abandonment: ☐ Dry ☐ Production for Sub-economic ☐ Mechanical Problems☒ Other RE-ENTER AND PLUGCasing to be pulled: ☐ Yes ☒ No

Estimated Depth:

Fish in Hole: ☒ Yes ☐ No If yes, explain details belowWellbore has Uncemented Casing leaks: ☐ Yes ☒ No If yes, explain details below

Details: This well was originally abandoned 09/09/2002 with production casing cut off at 5200'. Purpose is to reenter and adequately replug by adding cement plugs above the Niobrara and Sussex formations, and additional Fox Hills coverage prior to hydraulic stimulation of proposed horizontal well per DJ Basin Offset Policy dated December 16, 2013. Casing patch at 5229' was noted in the Subsequent Report of Abandonment from 2002.

Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7357	7367	08/28/2002	B PLUG CEMENT TOP	7007

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	778	500	778	0	VISU
1ST	7+7/8	2+7/8	6.5	7,522	220	7,522	6,780	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 740 sks cmt from 5300 ft. to 4200 ft. Plug Type: STUB PLUG 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 _____ 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

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

(Cast Iron Cement Retainer Depth)

Set 570 sacks half in. half out surface casing from 1500 ft. to 580 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:

Closed loop system will be used.

Re-plug and re-entry procedure attached.

1. Locate and expose 8 5/8" casing stub. Extend stub to surface and install 8 5/8"x 11" SOW, 3M casing head with 3000 psi ball valves in both outlets.
2. 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.).
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. MIRU workover rig. NU 9" 3000 psi BOP stack on casing head. PT BOP and csg head per approved Form 2. Function test BOPE . NU rotating head on BOP. Hook up return line to shale shaker on flat tank. Spot trailer with 169 joints of 2 3/8" WS.
5. PU 7 7/8" mill tooth bit, necessary drill collars and drill pipe/work string (WS). Drill through existing cement plugs at surface (10 sk) and at the base of surface casing (100 sk plug ~658'-814') using fresh water with biocide.
6. Once surface cement plugs are drilled, displace hole with drilling mud and continue going in hole. Drill out cement plug at ~2900'-3000'.
7. RIH to stub of 2 7/8" casing @ 5200'. TOO H and LD drill collars and bit.
8. RIH WS open-ended to 5190'. Circulate and condition hole for additional cement plug.
9. Run gyro survey from casing stub to surface.
10. RIH with 2 3/8" tubing past casing stub to 5300'.
11. RU Cementers. Precede cement with 5 bbl water containing biocide, 20 bbl Sodium Metasilicate, and another 5 bbl spacer.
12. Pump Shannon/Sussex plug: 740 sx (851 cu-ft) "G" w/0.25 pps cello w/ flake, 0.4 % CD-32, 0.4% ASA-301 to achieve 2:30 pump time. Mix at 15.8 ppg and 1.15 cu-ft/sack. Calculated top of plug at 4200' based on a 10 1/2" hole with 20% excess. Caliper log from 4300'-4700'.
13. POOH to ~3900' and circulate clean. WOC per cement company recommendation.
14. RIH, tag top of plug at 4200' or shallower. If not, consult Evans Engineering.
15. POH to 1500' and LD WS. Precede cement with 10 bbls SAPP and 20 bbls fresh water spacer.
16. Pump surface plug: 570 sx (758 cu-ft) Type III w/cello flake and CaCl₂ as deemed necessary, mixed at 14.8 ppg and 1.33 cuft/sk. Cement volume from 1500'-778' in an 11" OH with 40% excess, and 788'-550 in 8 5/8" casing, no excess. Nearest caliper reading at 4300'.
17. POOH to ~250' and circulate clean. WOC per cement company recommendation.
18. RIH, tag top of plug. Plug needs to be 580' or shallower. If not, consult Evans Engineering. TOO H and LD WS.
19. RU wireline. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RDMO WL and WO rig.
20. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hrs of completion of the job.
21. Supervisor to submit paper copies of all invoices, logs, and reports to Joleen Kramer.
22. Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
23. Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
24. Welder cut casing minimum 5' below ground level.
25. Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
26. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
27. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
28. Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
29. Back fill hole with fill. Clean location, level.
30. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

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: 1/8/2015 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: 1/14/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 7/13/2015

COA Type	Description
	<ol style="list-style-type: none">1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.2) For 1500' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 728' or shallower.3) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.4) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.5) Operator must provide well location GPS coordinates on Subsequent Report of Abandonment in accordance with COGCC As-Built Location Policy and Rule 215.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400767101	FORM 6 INTENT SUBMITTED
400767117	SURFACE OWNER CONSENT
400767118	LOCATION PHOTO
400767119	PROPOSED PLUGGING PROCEDURE
400767122	WELLBORE DIAGRAM

Total Attach: 5 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
#Error	Re-entry of previously plugged well-operator will run gyro and GPS.	1/14/2015 9:03:21 AM
#Error	Well Completion Report dated 1/25/1993. SRA dated 9/9/2002.	1/13/2015 8:33:43 AM

Total: 2 comment(s)