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400850366

Date Received:
06/08/2015

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: Carlile, Craig Tel: (970) 629-8279

COGCC contact: Email: craig.carlile@state.co.us

API Number 05-123-21817-00 Well Number: 43-15

Well Name: RUSCH

Location: QtrQtr: NESE Section: 15 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: 40.224180 Longitude: -104.869100

GPS Data:
Date of Measurement: 07/12/2007 PDOP Reading: 2.0 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: 920

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	7557	7610			

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	509	365	509	0	VISU
1ST	7+7/8	4+1/2	11.6	7,776	185	7,776	6,436	CBL

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7480 with 60 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 60 sks cmt from 7480 ft. to 6450 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 4390 ft. with 250 sacks. Leave at least 100 ft. in casing 3880 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 230 sacks half in. half out surface casing from 1020 ft. to 409 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, kill as necessary using biocide treated water. NDWH. NUBOP. Unseat landing jt, LD.
6. Notify cementers to be on call. Provide volumes listed below:
 - 6.1 Niobrara plug: 60 sx (91 cu-ft) Thermal 35 w/ 0.5% CFR-2 and 0.25% FMC, mixed at 15.6 ppg and 1.51 cu-ft/sk yield. Cement volume based on 1030' in 4 1/2" casing.
 - 6.2 Sussex suicide: 250 sx (288 cu-ft) 0:1:0 'G' w/ 0.25 pps cello flake, 0.5% CFR-2, 0.2% FMC, 0.5% LWA, mixed at 15.8 ppg and 1.15 cu-ft/sk yield. Cement volume based on 740' in 4 1/2" casing and 540' in a 9" OH with 20% excess. Caliper on file.
 - 6.3 Foxhills plug: 230 sx (306 cu-ft) Type III w/ 0.25 pps cello flake, 0.3% CFL-3, 0.3% CFR-2, and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk yield. Cement volume based on 100' in 4 1/2" casing, 411' in a 9" OH with 20% excess, and 200' in 8 5/8" casing. Caliper on file.
7. TOOH 2 3/8" tubing landed at 7551'. Stand back 2 3/8" tubing.
8. MIRU WL. RIH gauge ring for 4 1/2" 11.6# casing to 7550'. POOH.
9. PU 4 1/2" 11.6# CIBP and RIH with WL. Set at +/- 7480' to abandon J Sand perms. PT to 1000 psi for 15 minutes. RDMO WL.
10. RIH with 2 3/8" tubing to +/- 7480', tag CIBP and PUH 5'. Hydrotest tubing to 3000 psi while RIH.
11. MIRU cementers. Pump Niobrara plug: 60 sx (91 cu-ft) Thermal 35 w/ 0.5% CFR-2 and 0.25% FMC, mixed at 15.6 ppg and 1.51 cu-ft/sk yield. Plug to cover 7480' – 6450'. RDMO cementers.
12. PUH to +/- 6200'. Reverse circulate with biocide treated water to displace cement and clear tubing.
13. POOH. Stand back 3880' of tubing.
14. MIRU WL. PU 3 1/8" perf guns with 3 spf, 120 degree phasing, 0.50" EHD and RIH with WL. Shoot 1' of squeeze holes at 4390' and 2' of squeeze holes at 3850'. RDMO WL.
15. PU and RIH with CICR and 2 3/8" tubing, set CICR at +/- 3880'. Establish circulation with rig pump using biocide treated water.
16. MIRU cementers. Establish circulation with biocide treated water and precede cement with 5 bbl biocide treated water, 20 bbl sodium metasilicate, and another 5 bbl water spacer.
17. Pump Sussex suicide: 250 sx (288 cu-ft) 0:1:0 'G' w/ 0.25 pps cello flake, 0.5% CFR-2, 0.2% FMC, 0.5% LWA, mixed at 15.8 ppg and 1.15 cu-ft/sk yield to place cement between perms from 4390' to 3850'. Under displace and sting out of CICR to leave 3 bbls (~200') on top of retainer. Cement volume based on 9" OH with 20% excess. Caliper readings across entire interval. RDMO cementers.
18. PUH to +/- 3400'. Reverse circulate with biocide treated water to displace cement and clear tubing.
19. POOH. Stand back 1020' of tubing.
20. MIRU WL. Shoot off 4 1/2" casing at or below 920'. RDMO WL. Circulate casing with biocide treated water to remove any gas.
21. NDBOP, NDTH.
22. Install BOP on casing head with 4 1/2" pipe rams.
23. TOOH 4 1/2" casing, LD.
24. RIH with 2 3/8" tubing to 1020' inside 4 1/2" casing.
25. MIRU cementers. Establish circulation with biocide treated water and get bottoms up. Precede cement with 10 bbl SAPP and a minimum 20 bbl fresh water spacer. Pump Foxhills plug: 230 sx (306 cu-ft) Type III w/ 0.25 pps cello flake, 0.3% CFL-3, 0.3% CFR-2, and CaCl2 as necessary, mixed at 14.8 ppg and 1.33 cu-ft/sk yield. Plug to cover 1020' – 920' in 4 1/2" casing, 920' – 509' in 9" OH with 20% excess, and 509' – 309' in 8 5/8" casing. Caliper readings across entire interval. RDMO cementers.
26. PUH to 100' and circulate with biocide treated water to displace cement and clear tubing.
27. WOC per cement company recommendation. Tag cement at or above 409'. If not, consult with Evans Engineering.
28. MIRU WL. RIH 8 5/8" 24# CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. If tests, RDMO WL and WO rig.
29. Instruct cementing and wireline contractors to email copies of all job logs/jobs summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.

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: 6/8/2015 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: 7/27/2015

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 1/26/2016

COA Type	Description
	<ol style="list-style-type: none"> 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 1020' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 459' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

Attachment Check List

<u>Att Doc Num</u>	<u>Name</u>
400850366	FORM 6 INTENT SUBMITTED
400850368	PROPOSED PLUGGING PROCEDURE
400850369	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well Completion Report dated 5/13/2004.	6/10/2015 12:53:20 PM

Total: 1 comment(s)