

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:

400558045

Date Received:

02/20/2014

## 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 &amp; 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) 3974124

COGCC contact:

Email: john.montoya@state.co.us

API Number 05-123-10186-00

Well Name: PAUL SCHMIDT GAS UNIT B

Well Number: 2

Location: QtrQtr: NWNW Section: 20 Township: 2N Range: 66W 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: 40.127660

Longitude: -104.805960

GPS Data:

Date of Measurement: 05/01/2008

PDOP Reading: 2.1

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: 600

Fish in Hole: ☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks:

☐ Yes☒ No

If yes, explain details below

Details: Squeeze holes present at 425' and 625' to fix casing leaks.

## Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7860	7890			

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	235	225	235	0	VISU
1ST	7+7/8	4+1/2	11.6	8,011	200	8,011	7,000	CALC
			Stage Tool	721	110	721	400	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7800 with 2 sacks cmt on top. CIPB #2: Depth 100 with 23 sacks cmt on top.  
CIBP #3: Depth \_\_\_\_\_ with \_\_\_\_\_ sacks cmt on top. CIPB #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 6750 ft. with 80 sacks. Leave at least 100 ft. in casing 6780 CICR Depth

Perforate and squeeze at 4200 ft. with 230 sacks. Leave at least 100 ft. in casing 4230 CICR Depth

Perforate and squeeze at 750 ft. with 300 sacks. Leave at least 100 ft. in casing 780 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 170 sacks half in. half out surface casing from 700 ft. to 100 ft. Plug Tagged: ☒

Set \_\_\_\_\_ 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 6950'/6750' ft. with 80 sacks Leave at least 100 ft. in casing 6780' CICR Depth  
 Perforate and squeeze at 4600'/4200' ft. with 230 sacks Leave at least 100 ft. in casing 4230' CICR Depth  
 Perforate and squeeze at 1450'/750' ft. with 300 sacks Leave at least 100 ft. in casing 780' CICR Depth  
 6. MIRU WO rig. Kill well; circulate as necessary, with water containing biocide. ND wellhead. NU BOP's. Unseat landing joint and lay down.  
 7. Place cement services on will call when rig moves on location, providing expected volumes of cement needed. (~170sx for top plug; 300 sx for Foxhills plug, ~230 sx for SX/SH plug and 80 sx for NB/CD plug). See attached WBD for cement blends.  
 8. TOOH and stand back 2-3/8" TBG.  
 9. MIRU wireline services. RIH gauge ring for 4-1/2" casing to 7900'.  
 10. PU 4-1/2" CIBP and RIH on W/L to +/-7800'. Set CIBP. Dump bail 2 sacks of cement on top of CIBP.  
 11. PU RIH with CCL-GR-CBL-VDL. Run from 7800' to surface to verify cement behind 4-1/2" CSG. Email log results to engineer. Cement blend and squeeze jobs will be changed based on log results.  
 12. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 6950' and 6750'. RD wireline  
 13. PU 4-1/2" CICR and RIH on 2-3/8" TBG to 6780'. Hydrotest TBG to 3000 psi while RIH. Set CICR.  
 14. Initiate circulation using water containing biocide. Note rate, pressure and circulation.  
 15. MIRU cementing services. Pump 80 sacks of 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. with 20% excess used and considering hole size of 10".  
 16. Underdisplace by 3 BBL. Unsting from CICR and dump remainder on CICR.  
 17. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services  
 18. Load hole and circulate with 9.0 ppg mud containing biocide.  
 19. P&SB 4230' of TBG (69 Stands). LD remainder.  
 20. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 4200' and 4600'. RD wireline.  
 21. PU 4-1/2" CICR and RIH on 2-3/8" TBG to 4230'. Set CICR  
 22. Initiate circulation through CICR using water containing biocide. Note rate, pressure and circulation.  
 23. MIRU cementing services. Preflush with 5 bbl of H2O; 20 bbl of sodium metasilicate; 5 bbl of H2O.  
 24. Pump 230 sacks of "G" w/ 0.25 pps cello flake , 0.4% CD-32, 0.4% ASA - 301, mixed at 15.8 ppg and 1.15 cuft/sk with 20% excess used and considering hole size of 10". Cement from 4600' to 4200'.  
 25. Underdisplace by 3 BBL. Unsting from CICR and dump remainder on CICR.  
 26. PUH 9 stands. Circulate (2 X TBG Vol + Excess) to CLR TBG. RD cementing services.  
 27. Load hole and circulate with 9.0 ppg mud containing biocide.  
 28. P & SB 780' (13 stands) of TBG. LD remainder.  
 29. RU wireline services. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 1450' and 750'. RD wireline.  
 30. PU 4-1/2" CICR and RIH on W/L to 780'. Set CICR  
 31. TIH with 2-3/8" TBG to 780'.  
 32. Initiate circulation through CICR using water containing biocide. Note rate, pressure and circulation.  
 33. MIRU cementing services.  
 34. Pump 300 sacks of Type III w/ cello flake and CaCl2, mixed at 14.0 ppg and 1.53 cuft/sk. Cement from 1450' to 750'. Volumes calculated considering 10" hole size and 20% excess.  
 35. Underdisplace by 3BBL. Unsting from CICR and dump remainder on CICR.  
 36. PUH 9 stands. Circulate ( 2 X TBG Vol + Excess) to CLR TBG. RD cementing services.  
 37. Load hole and circulate with 9.0 ppg mud containing biocide.  
 38. RU wireline services. Crack closest coupling at 600' or shoot off (as deep as possible above cement top). RD wireline.  
 39. Circulate with mud w/ biocide to remove any gas.  
 40. NDBOP, NDTH.  
 41. NU BOP on casing head. Install 4-1/2" pipe rams.  
 42. RIH with 2-3/8" TBG into casing stub to TOC inside 4-1/2".  
 43. RU Cementing services. Spot 170 sx of Type III

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: 2/20/2014 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: 3/4/2014

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 9/3/2014

<u>COA Type</u>	<u>Description</u>
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) No CBL on file. Run CBL to verify the top of primary cement is at least 200' over Niobrara and that previous cementing operations adequately isolated the Fox Hills aquifer. If cement coverage does not exist as required, provide this coverage as part of this plugging project. 3) If unable to pull casing, contact COGCC for plugging modifications. 4) For 700' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 185' or shallower. 5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 6) Provide an "As Plugged" wellbore diagram identifying the specific plugging completed.

### **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400558045	FORM 6 INTENT SUBMITTED
400558074	PROPOSED PLUGGING PROCEDURE
400558075	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)