

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:

400547540

Date Received:

01/29/2014

## 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 05-123-07245-00

Well Name: ARTESE, PHILIP

Well Number: 1

Location: QtrQtr: SWNE Section: 6 Township: 1N 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: 40.082286

Longitude: -104.704317

GPS Data:

Date of Measurement: 08/31/2009

PDOP Reading: 2.2

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: 300

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	7394	7409			
DAKOTA	7978	8092			
J SAND	7833	7865			

Total: 3 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	214	200	214	0	VISU
1ST	7+7/8	4+1/2	11.6	7,978	500	7,978	7,240	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7910 with 2 sacks cmt on top. CIBP #2: Depth 7770 with 2 sacks cmt on top.  
CIBP #3: Depth 7330 with 2 sacks cmt on top. CIBP #4: Depth 100 with 23 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 6660 ft. with 170 sacks. Leave at least 100 ft. in casing 6690 CICR Depth

Perforate and squeeze at 4310 ft. with 210 sacks. Leave at least 100 ft. in casing 4340 CICR Depth

Perforate and squeeze at 1100 ft. with 240 sacks. Leave at least 100 ft. in casing 1130 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 110 sacks half in. half out surface casing from 1034 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 7150'/6660'	ft. with 170	sacks Leave at least 100 ft. in casing	6690	CICR Depth
Perforate and squeeze at 4710'/4310'	ft. with 210	sacks Leave at least 100 ft. in casing	4340	CICR Depth
Perforate and squeeze at 1716'/1100'	ft. with 240	sacks Leave at least 100 ft. in casing	1130	CICR Depth

Philip Artese 1 P&A

1. Call foreman or Lead Operator before rig up to isolate and remove automation and production equipment. Install fence if needed.
2. MIRU slickline services & VES. Pull bumper spring, tag bottom (Gyro completed 9/9/2011). RDMO SL.
3. Provide notice to COGCC prior to MIRU per Form 6 COA.
4. Notify IOC when rig moves on location to generate work order for flowline removal and one call for line locates.
5. Prepare location for base beam rig.
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. (~110sx for top plug; 240 sx for Foxhills plug ~210 sx for SX/SH plug and 170 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 7950'.
10. PU 4-1/2" CIBP and RIH on W/L to +/-7910'. Set CIBP.
11. Dump bail 2 sx of cement on CIBP.
12. PU 4-1/2" CIBP and RIH on W/L to +/-7770'. Set CIBP.
13. Dump bail 2 sx of cement on CIBP.
14. PU 4-1/2" CIBP and RIH on W/L to +/-7330'. Set CIBP. P/T CIBP to 1000 psi.
15. Dump bail 2 sx of cement on CIBP.
16. PU RIH with CCL-GR-CBL-VDL. Run from 7280' to surface to verify cement behind 4-1/2" CSG. Cement placement in this procedure may be adjusted based on log results.
17. PU two 1' 3-1/8" perf guns loaded with 3 spf, 0.5" EHD, 120 phasing. Shoot 1' of squeeze holes at 7150' and 6660'. RD wireline.
18. PU 4-1/2" CICR and RIH on 2-3/8" TBG to +/- 6690'. Hydrotest TBG to 3000 psi while RIH. Set CICR
19. Initiate circulation using water containing biocide. Note rate and pressure.
20. MIRU cementing services. Pump 170 sx 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/yield. (Excess used = 40%). Cement from 7150' to 6660'
21. Underdisplace by 3BBL. Unsting from CICR and dump remainder on CICR.
22. PUH 9 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services
23. Load hole and circulate with 9.0 ppg mud containing biocide.
24. P&SB 4340' of TBG (70 Stands). LD remainder.
25. 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 4710' and 4310. RD wireline.
26. PU 4-1/2" CICR and RIH on 2-3/8" TBG to 4340'. Set CICR
27. Initiate circulation through CICR using water containing biocide. Note rate and pressure.
28. MIRU cementing services. Preflush with 5 bbl of H2O; 20 bbl of sodium metasilicate; 5 bbl of H2O.
29. Pump 210 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. (Cement Excess used = 40% considering 9" hole) Cement from 4710' to 4310'.
30. Underdisplace by 3BBL. Unsting from CICR and dump remainder on CICR
31. PUH 9 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services.
32. Load hole and circulate with 9.0 ppg mud containing biocide.
33. P&SB 1130' of TBG (20 Stands). LD remainder.
34. 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 1716' and 1100.
35. PU 4-1/2" CICR and RIH on wireline to 1130'. Set CICR. RD wireline
36. TIH w/ 2-3/8" TBG to 1130'.
37. Pump 240 sacks of Type III w/ celloflake and CaCl2 mixed at 14.0 ppg and 1.53 cuft/sk with 40% excess. Cement from 1716' to 1100'.
38. Underdisplace by 3BBL. Unsting from CICR and dump remainder on CICR
39. PUH 9 stands. Circulate (TBG Vol + Excess) to CLR TBG. RD cementing services.

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: 1/29/2014 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: 1/31/2014

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 7/30/2014

<u>COA Type</u>	<u>Description</u>
	1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU. 2) Cut casing as deep as possible above cement top@ 346' to isolate Arapahoe aquifer from below. If unable to pull casing below 335' contact COGCC for plugging modifications. 3) For 1034' plug: pump plug and displace. Wait 4 hours then tag plug – must be 164' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro data from 9/9/11 with Form 6 (s) Subsequent Report of Abandonment.

### **Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400547540	FORM 6 INTENT SUBMITTED
400547588	PROPOSED PLUGGING PROCEDURE
400547589	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

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

Total: 0 comment(s)