

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



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Document Number:

400724779

Date Received:

11/05/2014

## 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: Precup, Jim

Tel: (303) 726-3822

COGCC contact:

Email: james.precup@state.co.us

API Number 05-123-07219-00

Well Name: GORDON TURKEY FARM

Well Number: 1

Location: QtrQtr: SESE Section: 10 Township: 2N 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: 40.147000

Longitude: -104.869440

GPS Data:

Date of Measurement: 04/15/2007

PDOP Reading: 1.8

GPS Instrument Operator's Name: Steve Fisher

Reason for Abandonment:

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

Casing to be pulled:

☒ Yes☐ No

Estimated Depth: 500

Fish in Hole:

☐ Yes☒ No

If yes, explain details below

Wellbore has Uncemented Casing leaks:

☐ Yes☒ No

If yes, explain details below

Details: Stage Tool at 842' w/ 200 sx. No CBL found, will run one on the rig to determine Nio coverage and Fox Hills coverage.

## Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
J SAND	7973	8014			

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	242	200	242	0	VISU
1ST	7+7/8	4+1/2	10.5	8,164	200	8,164	7,350	CALC
			Stage Tool	842	200	842	508	CALC

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7900 with 2 sacks cmt on top. CIPB #2: Depth 80 with 25 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 7330 ft. with 170 sacks. Leave at least 100 ft. in casing 6890 CICR Depth

Perforate and squeeze at 5125 ft. with 700 sacks. Leave at least 100 ft. in casing 4400 CICR Depth

Perforate and squeeze at 1300 ft. with 350 sacks. Leave at least 100 ft. in casing 900 CICR Depth

(Cast Iron Cement Retainer Depth)

Set 270 sacks half in. half out surface casing from 700 ft. to 100 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 clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.  
 6 POOH and stand back 2-3/8" tbg. (252 jnts landed at 7970').  
 7 PU scraper for 4-1/2" casing and RIH to 7930'. POOH and LD scraper.  
 8 PU 4-1/2" CIBP on 2-3/8" tbg and RIH and set at +/- 7900'. Circulate gas out of the hole from just above the CIBP and PT CIBP and casing to 1000 psi for 15 minutes. Assuming passing PT, POOH.  
 9 RU WL. Run CBL from ~7900' to surface. Find the TOC above the J Sand and the Bottom and Top of Cement at the DV Tool at 842' and identify any other anomalies. Forward results to Reed.Boeger@Anadarko.com and Brent.Marchant@Anadarko.com.  
 Contact Evans Engineering in case cement volumes and perf depths need to change.  
 10 PU dumpbailer and set 2 sacks neat "G" on top of the CIBP at 7930'. POOH and LD dumpbailer.  
 11 PU 2-1' 3-1/8" perf guns w/ 0.6" diam, 120 phasing and shoot 1' of squeeze holes at 7330' and 6850'. Adjust bottom sqz holes based on results from CBL to be ~20' from TOC. RDMO WL.  
 12 Notify Cementers to be on call.  
 13 PU 4-1/2" CICR on 2-3/8" tbg and RIH while hydrotesting to 3000 psi. Set CICR at 6890' +/- 10' pending CCL. Establish circulation through sqz holes with fresh water and biocide.  
 14 "RU Cementers. Pump Niobrara Suicide plug consisting of 170 sx (51.8 bbls) 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. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of the CICR to leave ~150' on top of the CICR and sqz holes. Volume based on 9"" x 4-1/2"" annulus with 40% excess from 6850' to 7330', and 4-1/2"" casing from 6700' to 7330'. RD Cementers.  
 15 PUH 6 stands and circulate hole clean with fresh water and biocide. POOH standing back 140 jnts.  
 16 MIRU WL. PU 2-1' 3-1/8" perf guns w/ 0.59" diam, 120 phasing and shoot 1' of squeeze holes at 5125' and 4360'. RDMO WL.  
 17 PU 4-1/2" CICR on 2-3/8" tbg. RIH and Set CICR at 4400' +/- 10' pending CCL. Establish circulation through sqz holes.  
 18 RU Cementers. Pump Sussex Suicide plug: Pump 5 bbls fresh water followed by 20 bbls sodium metasilicate followed by 5 bbls fresh water ahead of cement: 700 sks (143.4 bbls) "G" w/ 0.25 pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl2 as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of CICR to leave 150' on top of CICR and sqz holes. Volume based on 12" x 4-1/2" annulus with 40% excess from 4360' to 5125', and 4-1/2" casing from 4200' to 5125'. RD Cementers.  
 19 PUH 6 stands and circulate hole clean with fresh water and biocide. POOH standing back 29 jnts.  
 20 MIRU WL. PU 2-1' 3-1/8" perf guns w/ 0.6" diam, 120 phasing and shoot 1' of squeeze holes at 1300' and 860'. Adjust top perf to be ~ 20' below BOC at the DV Tool based on the CBL.  
 21 PU 4-1/2" Thunderbird tension-set CICR and RIH and set at 900' +/- 10' based on CCL. RDMO WL.  
 22 PU stinger on 2-3/8" tbg and RIH to CICR at 900'. Sting in, chain down tbg, and establish circulation through sqz holes with fresh water and biocide.  
 23 MIRU Cementers. Pump Fox Hills Suicide plug: Pump 350 sx (83 bbls) Type III w/cello flake and CaCl2 as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. Underdisplace by 3 bbls and unsting from CICR. Spot final 3 bbls on top of CICR. Volumes based on 12" x 4-1/2" annulus with 40% excess from 860' to 1300' and 4-1/2" casing from 700' to 1300'.  
 24 PUH to 500' (below TOC in annulus) and circulate hole clean to ensure TOC above CICR is below the TOC behind pipe based on the CBL. POOH and stand back 22 jnts. Contact Evans Engineering prior to next step.  
 25 MIRU WL. Crack couplings or jet cut 4-1/2" csg at 500'. Adjust depth to be above TOC by ~20'. RDMO WL. Circulate approximately 120 bbls of fresh water and biocide to remove any gas from wellbore.  
 26 ND BOP and tubing head. Install a BOP on surface casing head with 4-1/2" pipe rams. I

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: 11/5/2014 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: 12/31/2014

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 6/29/2015

<b>COA Type</b>	<b>Description</b>
	<p>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</p> <p>2) No CBL on file. Run CBL to verify the top of primary or squeezed cement is at least 200' over Niobrara, at least 50' below Shannon to 200' above Sussex, and adequately isolates the Fox Hills aquifer. If cement does not exist as required, provide this coverage as part of this plugging project. Use CBL results to verify the setting depth of and stage cement pumped through the DV tool. If DV tool cement missing, add cement behind production casing or cut casing deeper to ensure Fox Hills aquifer isolation. Add cement in casing across and 50' above and below DV tool as part of this plugging project.</p> <p>3) If unable to pull casing contact COGCC for plugging modifications.</p> <p>4) For 700' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 192' or shallower.</p> <p>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</p> <p>6) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</p>

### **Attachment Check List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
400724779	FORM 6 INTENT SUBMITTED
400724783	PROPOSED PLUGGING PROCEDURE
400724784	WELLBORE DIAGRAM

Total Attach: 3 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Engineer	Requested copies of existing well logs.	12/24/2014 11:42:03 AM
Permit	Well Completion Report dated 1/20/1971.	11/19/2014 11:46:58 AM

Total: 2 comment(s)