

**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  
 Email: john.montoya@state.co.us

**COGCC contact:**

API Number 05-123-23947-00 Well Name: SENG Well Number: 33-7  
 Location: QtrQtr: NWSE Section: 7 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: 40.063660 Longitude: -104.704080  
 GPS Data:  
 Date of Measurement: 07/13/2007 PDOP Reading: 2.7 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: 1610  
 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	7390	7404			

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	1,158	805	1,158	0	VISU
1ST	7+7/8	4+1/2	11.6	7,978	580	7,978	3,630	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7310 with 50 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 50 sks cmt from 7300 ft. to 6660 ft. Plug Type: CASING Plug Tagged:   
Set 30 sks cmt from 4670 ft. to 4270 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:

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 250 sacks half in. half out surface casing from 1710 ft. to 672 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:

- 2 Well already has a gyro.
- 3 MIRU slickline services and pressure bomb services. Pull bumper spring and tag bottom. Run pressure bomb survey and obtain pressure gradient survey from surface to 7397' making gradient stops every 1000'. Forward pressure bomb results to Evans Engineering. RDMO slickline services.
- 4 Prepare location for base beam equipped rig. Install perimeter fence as needed.
- 5 Check and record Bradenhead pressure. If Bradenhead valve is not accessible, re-plumb so that valve is above GL.
- 6 MIRU, kill as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing jt, LD.
- 7 TOH and stand back 2-3/8" production tubing (228 joints landed at 7378'.)
- 8 MIRU WL. Run gauge ring for 4-1/2", 11.6 ppf casing to 7350'. RIH 4-1/2" CIBP and set at 7310' to abandon Codell perms. Test CIBP and 4-1/2" casing to 1000 psi for 15 minutes.
- 9 RIH with 2-3/8" tubing to 7300' while hydrotesting to 3000 psi.
- 10 RU Cementers. Pump Niobrara/Codell balanced plug:
- 11 RU cementers and equalize a balanced plug from 7300' to 6660' as follows: 50 sx (69 cf of slurry) Class "G" w/20% silica flour, 0.4% CD-32, 0.4% ASA-301 and R-3 to achieve 2:30 pump time, mixed at 15.8 ppg and 1.38 cuft/sk.
- 12 Pull and lay down tbg to 6500'. Circulate clean with water containing biocide.
- 13 Pull and LD tubing to 4670'.
- 14 RU cementers and equalize a balanced plug across the Sussex from 4670' to 4270' as follows: 30 sx (35 cf of slurry) "G" with 0.4% CD-32, 0.4% ASA-301 mixed at 15.8 ppg and 1.15 cuft/sk.
- 15 Pull and LD tbg to 4100'. Circulate clean with water containing biocide.
- 16 WOC per cementing company recommendation.
- 17 Tag cement @ 4270'. POH, lay down tubing.
- 18 RU WL. Crack coupling or cut casing at ±1610'. RDMO WL. Circulate bottoms up through 4-1/2" casing at cut, and continue circulating to remove any gas from wellbore.
- 19 ND BOP and wellhead. Install BOP on surface casing head with 4-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
- 20 TOOH and LD 1610' of 4-1/2" casing.
- 21 Change BOP rams for 2-3/8" tubing.
- 22 RIH w/ 2-3/8" tbg to 1710' (100' past 4-1/2" csg stub).
- 23 RU cementers. Pump 10 bbl SAPP (Sodium Acid Pyrophosphate) followed by 20 bbl (min) fresh water spacer immediately preceding cement.
- 24 Pump a balanced stub plug 1710' to 960': 250 sx (333 cuft.) Type III cement w/ 0.25 pps cello flake and CaCl2 as deemed necessary mixed at 14.8 ppg and 1.33 cf/sk. Cement volume to fill 100' in 4-1/2", 11.6 ppf casing, 440' in 8.25" OH with 40% excess, 9' in 12.25" OH with 40% excess, and 200' in 8-5/8", 24 ppf surface casing.
- 25 Pull up hole to 800' and circulate clean.
- 26 POH and WOC per cementing company recommendation. Tag plug; TOC should be at 1050' or higher. If not, Consult Evans engineering before proceeding.
- 27 MIRU WL. RIH 8-5/8" CIBP to 80'. Set and PT to 1000 psi for 15 min. If casing tests, RDMO WL and WO rig.
- 28 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.
- 29 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
- 30 Excavation crew to notify One Call to clear excavation area around wellhead and for flowlines.
- 31 Excavate hole around surface casing enough to allow welder to cut casing minimum 5' below ground level.
- 32 Welder cut casing minimum 5' below ground level.
- 33 Fill casing to surface using 4500 psi compressive strength cement, (NO gravel).
- 34 Spot weld on steel marker plate. Marker shall contain well name, well number, legal location (1/4 1/4 descriptor) and API number.
- 35 Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
- 36 Properly abandon flowlines per Rule 1103. File electronic Form 42 once abandonment complete.
- 37 Back fill hole with fill. Clean location, level.
- 38 Submit Form 6 to COGCC ensuring to provide 'As performed

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: 1/12/2015 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: 4/16/2015

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 10/15/2015

<b>COA Type</b>	<b>Description</b>
	<p>Note change in plugging procedure:</p> <ol style="list-style-type: none"> <li>1) Submit Form 42 electronically to COGCC 48 hours prior to MIRU.</li> <li>2) If unable to pull casing contact COGCC for plugging modifications.</li> <li>3) For 1710' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 672' or shallower to isolate Laramie Fox Hills aquifer from Lower Arapahoe aquifer. Increase cement volumes accordingly.</li> <li>4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>5) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>

**Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
400769261	FORM 6 INTENT SUBMITTED
400769279	PROPOSED PLUGGING PROCEDURE
400769280	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

<b>User Group</b>	<b>Comment</b>	<b>Comment Date</b>
Permit	Well Completion Report dated 9/27/2007.	1/22/2015 10:42:03 AM

Total: 1 comment(s)