

**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: (303) 8942100  
**COGCC contact:** Email: craig.carlile@state.co.us

API Number 05-123-17383-00 Well Number: T 13-3  
 Well Name: LDS  
 Location: QtrQtr: NENW Section: 13 Township: 3N Range: 68W 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: 40.231224 Longitude: -104.953684  
 GPS Data:  
 Date of Measurement: 03/30/2010 PDOP Reading: 2.8 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: 900  
 Fish in Hole:  Yes  No If yes, explain details below  
 Wellbore has Uncemented Casing leaks:  Yes  No If yes, explain details below  
 Details: Well had a casing patch installed and cemented in place with 390 bbls at 2687' on 3/1/1996, Passed a PT to 5000 psi following installation.

**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7249	7267			
J SAND	7046	7056			

Total: 2 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	313	220	313	0	VISU
1ST	7+7/8	3+1/2	7.7	7,412	430	7,412	6,200	CBL
S.C. 1.1				7,412	200	5,000	3,230	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 6980 with 20 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 30 sks cmt from 4450 ft. to 3850 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 \_\_\_\_\_ 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 380 sacks half in. half out surface casing from 1000 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:

PLUG AND ABANDONMENT PROCEDURE  
LDS T 13-3

- 1 Provide 48 hr notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Call foreman or lead operator at least 24 hr prior to rig move. Request they catch and remove the plunger, isolate production equipment and remove any automation prior to rig showing up. Install perimeter fence as needed.
- 2 MIRU Slickline. Pull bumper spring and tag TD.
- 3 Prepare location for base beam equipped rig.
- 4 MIRU workover rig. Circulate well with water w/ biocide to kill the well. ND wellhead. NU BOPs. Unseat landing jt.
- 5 POOH 2-1/16" tbg and stand back.
- 6 MIRU Wireline. PU gauge ring for 3-1/2" 7.7# and RIH to 7030'. POOH and LD gauge. (Csg patch @ 2687', assumed to be external patch cemented in place)
- 7 RIH with 3-1/2" CIBP to 6980'. PT csg to 1000 psi. RDMO Wireline.
- 8 Notify Cementers to be on call.
- 9 RIH on 2-1/16" tbg while hydrotesting to 3000 psi. Tag CIBP at 6980' and pick up 5'.
- 10 "RU Cementers. Pump Niobrara balanced plug on top CIBP: 28 cu-ft (20 sks) "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. Calculated top in the 3-1/2" csg is 6440'.
- 11 PUH to leave end of 2-1/16" tbg at 4450' while circulating hole clean.
- 12 RU Cementers. Spot Sussex balanced plug: 34.5 cu-ft (30 sks) "G" w/0.25pps cello flake, 0.4% CD-32, 0.4% ASA-301 with CaCl<sub>2</sub> as necessary. Mixed at 15.8 ppg, 1.15 cuft/sack. Calculated top of plug 3850' based in the 3-1/2" csg. POH to ~3700' and circulate hole clean. WOC per cement company recommendation.
- 13 Tag top of plug at 3850'. POOH, standing back 1000' and laying down the rest.
- 14 ND BOP and wellhead. Install a BOP on surface casing head with 3-1/2" pipe rams. Install 3000 psi ball valves on both casing head outlets. Install a choke or choke manifold on one outlet.
- 15 MIRU Wireline. Free point and cut off 3-1/2" csg at 900'. RDMO WL. Circulate bottoms up using water and biocide to remove any gas from wellbore. Note: Cement placed around patch at 2687'. Insufficient details available.
- 16 POOH and LD 3-1/2" csg. Remove the 3-1/2" pipe rams and Install 2-1/16" pipe rams.
- 17 RIH w/ 2-1/16" tbg open ended 100' past the 3-1/2" csg stub to 1000'.
- 18 MIRU Cementers. PumpFox Hills plug: Pump mud flush of 10 bbls SAP and 20 bbl water ahead of 505 cu-ft (380 sx) Type III w/cello flake and CaCl<sub>2</sub> as deemed necessary, mixed at 1.33 cf per sack, 14.8 ppg. POH and WOC per cementing company recommendation. Plug size is based on 9.5" hole with 40% excess covering 1000' to shoe of surface casing at 313' plus capacity of surface casing to 100'. PUH to 100' and Circulate out any excess cmt. TOH and WOC per cement company recommendation.
- 19 RIH and tag top of plug at 100'. POOH and LD 2-1/16" tbg.
- 20 RU wireline. Run and set CIBP in the 8 5/8", 24# surface casing at 80'. PT CIBP and surface casing to 1000 psi for 15 minutes. Assuming successful test, RD wireline.
- 21 RDMO workover rig.
- 22 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.
- 23 Supervisor submit paper copies of all invoices, logs, and reports to Joleen Kramer.
- 24 Excavation crew to notify One Call to clear area around wellhead and flowlines.
- 25 Excavate hole around surface casing of sufficient size to allow welder to cut off 8 5/8" casing at least 5' Below ground level (depending on land owner requirements).
- 26 Properly abandon flowlines per Rule 1103.
- 27 Fill surface casing with cement (4500 psi compressive strength, no gravel).
- 28 Spot weld steel marker plate on top of sfc casing stub. Marker shall be labeled with well name, well number, legal location (1/4 1/4 descriptor) and API number.
- 29 Back fill hole with native material. Reclaim location to landowner specifications
- 30 Submit Form 6 to COGCC. Provide "As plugged" wellbore diagram identifying the specific plugging completed.

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: 8/12/2014 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: 8/17/2014

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 2/16/2015

<u>COA Type</u>	<u>Description</u>
	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 1000' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 263' or shallower. 4) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete. 5) Please submit gyro survey data with Form 6 (s) Subsequent Report of Abandonment.

**Attachment Check List**

<u>Att Doc Num</u>	<u>Name</u>
400662550	FORM 6 INTENT SUBMITTED
400662559	PROPOSED PLUGGING PROCEDURE
400662560	WELLBORE DIAGRAM

Total Attach: 3 Files

**General Comments**

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Well completion Report dated 7/10/1995.	8/13/2014 8:56:17 AM

Total: 1 comment(s)