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**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: Christina Hirtler  
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6301  
 Address: P O BOX 173779 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80217- Email: christina\_hirtler@oxy.com

**For "Intent" 24 hour notice required,** Name: Carlile, Craig Tel: (970) 629-8279  
**COGCC contact:** Email: craig.carlile@state.co.us

Type of Well Abandonment Report:  Notice of Intent to Abandon  Subsequent Report of Abandonment

API Number 05-123-22443-00  
 Well Name: LUDWIG Well Number: 18-1  
 Location: QtrQtr: SENW Section: 1 Township: 3N Range: 66W Meridian: 6  
 County: WELD Federal, Indian or State Lease Number: \_\_\_\_\_  
 Field Name: WATTENBERG Field Number: 90750

*Only Complete the Following Background Information for Intent to Abandon*

Latitude: 40.257067 Longitude: -104.729772  
 GPS Data: GPS Quality Value: 2.7 Type of GPS Quality Value: \_\_\_\_\_ Date of Measurement: 10/02/2008

Reason for Abandonment:  Dry  Production Sub-economic  Mechanical Problems  
 Other \_\_\_\_\_

Casing to be pulled:  Yes  No Estimated Depth: 690  
 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	7334	7350			
J SAND	7802	7870			
NIOBRARA	7052	7218			

Total: 3 zone(s)

**Casing History**

\_\_\_\_\_

Casing Type	Size of Hole	Size of Casing	Grade	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Btm	Cmt Top	Status
SURF	12+1/4	8+5/8	J-55	24	0	589	415	589	0	VISU
1ST	7+7/8	4+1/2	I-80	11.6	0	7939	470	7939	4260	CBL

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7750 with 2 sacks cmt on top. CIBP #2: Depth 7002 with 2 sacks cmt on top.  
 CIBP #3: Depth 260 with 80 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 5 sks cmt from 4352 ft. to 4290 ft. Plug Type: CASING Plug Tagged:   
 Set 15 sks cmt from 2160 ft. to 2000 ft. Plug Type: CASING Plug Tagged:   
 Set 65 sks cmt from 1800 ft. to 900 ft. Plug Type: CASING Plug Tagged:   
 Set 80 sks cmt from 260 ft. to 0 ft. Plug Type: CASING Plug Tagged:   
 Set \_\_\_\_\_ sks cmt from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Type: \_\_\_\_\_ Plug Tagged:

Perforate and squeeze at 4382 ft. with 95 sacks. Leave at least 100 ft. in casing 4352 CICR Depth  
 Perforate and squeeze at 2800 ft. with 210 sacks. Leave at least 100 ft. in casing 2160 CICR Depth  
 Perforate and squeeze at 1800 ft. with 190 sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
 (Cast Iron Cement Retainer Depth)

Set 120 sacks half in. half out surface casing from 690 ft. to 539 ft. Plug Tagged:

Set 80 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 Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_  
 Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_  
 \*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_  
 Type of Cement and Additives Used: \_\_\_\_\_  
 Flowline/Pipeline has been abandoned per Rule 1105  Yes  No

#### Technical Detail/Comments:

Prior to commencing operations, KMG will post signs in conspicuous locations. The signs will indicate plugging and abandonment operations are being conducted, the well name, well, and the Operator's contact information. Signs will be placed so as not to create a potential traffic hazard.

Courtesy notifications will be sent to all parcel owners with building units within 1,500 feet of the location letting them know about our plugging and abandonment operations and providing contact information for Kerr McGee's response line and online resources.

In some cases, wellbore pressure drawdown operations may occur approximately 1-2 days prior to Move In Rig Up (MIRU) of the workover rig. This is conducted to allow for reduced time that the workover rig is needed on location. These operations will be conducted in accordance with Form 4 and/or Form 6 requirements.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: \_\_\_\_\_ Print Name: Christina Hirtler  
 Title: Regulatory Date: \_\_\_\_\_ Email: christina\_hirtler@oxy.com

