



**Kerr-McGee Oil & Gas OnShore LP**  
A subsidiary of Anadarko Petroleum Corporation  
1099 18<sup>th</sup> Street  
Denver, CO 80202  
(720) 929-6000

January 8, 2016

Town of Erie  
645 Holbrook St.  
P.O. Box 750  
Erie, CO 80516  
Attn: R. Martin Ostholthoff

Re: Notice of Intent to Plug and Abandon existing Oil and Gas Well

Dear Mr. Ostholthoff:

This is a courtesy notice to make the Town of Erie aware of our intent to plug and abandon an oil and gas wells that, while not within Erie's municipal boundaries, is located nearby. We feel it is important to send notification in the event questions should arise. Kerr-McGee Oil & Gas Onshore LP (KMG) plans to perform these operations on the following existing oil and gas well.

**SWINK 1 3-21      05-123-16462      Section 21 T1N-R68W: SESE**

Prior to the initiation of operations we will notify residences within a half mile of the location on the timing and details of the upcoming activity.

We take pride at KMG in being a responsible operator and look forward to maintaining a long standing cooperative relationship with the Town of Erie and its residents. If you should you have any questions, regarding the plugging and abandonment of the well(s), please do not hesitate to contact me at 720-929-6321.

Thank you for your time and attention to this matter.

Sincerely,  
**Kerr-McGee Oil & Gas OnShore LP**

Patty Varra  
Municipal Planning Analyst-M

FORM

6

Rev  
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:

400918377

Date Received:

10/27/2015

**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: 47120Contact Name: CHERYL LIGHTName of Operator: KERR MCGEE OIL & GAS ONSHORE LPPhone: (720) 929-6461Address: P O BOX 173779Fax: (720) 929-7461City: DENVER State: CO Zip: 80217-Email: CHERYL.LIGHT@ANADARKO.COM**For "Intent" 24 hour notice required,**Name: Peterson, TomTel: (303) 815-9641**COGCC contact:**Email: tom.peterson@state.co.usAPI Number 05-123-16462-00Well Name: SWINK 1Well Number: 3-21Location: QtrQtr: SESE Section: 21 Township: 1N Range: 68W Meridian: 6County: WELD

Federal, Indian or State Lease Number: \_\_\_\_\_

Field Name: WATTENBERGField Number: 90750 Notice of Intent to Abandon Subsequent Report of Abandonment*Only Complete the Following Background Information for Intent to Abandon*Latitude: 40.032129Longitude: -105.002695

GPS Data:

Date of Measurement: 08/27/2007 PDOP Reading: 2.1 GPS Instrument Operator's Name: Paul TappyReason for Abandonment:  Dry  Production for Sub-economic  Mechanical Problems Other \_\_\_\_\_Casing to be pulled:  Yes  No Estimated Depth: 1210Fish in Hole:  Yes  No If yes, explain details belowWellbore has Uncemented Casing leaks:  Yes  No If yes, explain details belowDetails: Cement Bridge Plug placed in Dakata on 05/27/93 - plug depth of 8569'**Current and Previously Abandoned Zones**

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
CODELL	7976	7994			
J SAND	8423	8443			
DAKOTA	8588	8660	05/18/2005	B PLUG CEMENT TOP	8569

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	911	640	911	0	VISU
1ST	7+7/8	4+1/2	11.6	8,750	940	8,750	4,310	CBL

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 8360 with 2 sacks cmt on top. CIPB #2: Depth 7900 with 50 sacks cmt on top.  
 CIBP #3: Depth 80 with 25 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 <u>50</u>	sks cmt from	<u>7900</u>	ft. to	<u>7040</u>	ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input type="checkbox"/>
Set <u>40</u>	sks cmt from	<u>5000</u>	ft. to	<u>4470</u>	ft.	Plug Type: <u>CASING</u>	Plug Tagged: <input checked="" type="checkbox"/>
Set _____	sks cmt from	_____	ft. to	_____	ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____	sks cmt from	_____	ft. to	_____	ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>
Set _____	sks cmt from	_____	ft. to	_____	ft.	Plug Type: _____	Plug Tagged: <input type="checkbox"/>

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 360 sacks half in. half out surface casing from 1310 ft. to 343 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:

Work done by previous operator(s)

Lower CIBP 5/27/1993 – "set CIBP at 8569', and set 2 sxs cement on top of CIBP w/ dump bailer. Pressure tested CIBP to 6000 psi for 15 minutes. Pressure held".

Upper CIBP 5/18/2005 – "Set CIBP at 8320'. Loaded hole and CIBP failed. Set CIBP at 8150'. Re-fraced Codell.....".

Upper CIBP 5/22/2005 – "Cleaned sand to 80' below the Codell. Broke thru sand and ran tubing to 8454'. CIBP had fallen down the hole".

5. Blow-down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi. Contact Evans Engineering if pressure does not report at 0 psi the next day.

6. Arrange for delivery of 25 joints 2-3/8" 4.70 lb/ft J-55 tubing.

7. MIRU WO rig. Kill well as necessary using clean fresh water with biocide. ND WH. NU BOP. Unseat landing joint, and LD.

8. TOOH and SB all 2-3/8" tubing.

9. PU scraper and RIH to 8390' for 4-1/2" 11.6 lb/ft casing. TOOH, SB 7900' tubing, and LD scraper.

10. MIRU WL. PU 4-1/2" CIBP and set at 8360' (collars are located at 8335' and 8375') to abandon the J Sand perms.

11. PU dump bailer and spot 2 sxs of "G" cement on the CIBP at 8360'.

12. Set a second CIBP at 7900' (collars located at 7881' and 7924') to abandon the Codell perms. RD WL.

13. RU hydrotesters. TIH with 2-3/8" tubing to 7900' while hydrotesting to 3000 psi. Fill hole with biocide treated water, circulate gas out of the hole, and pressure test CIBP to 1000 psi for 15 minutes. RD hydrotesters. Monitor bradenhead pressure during test.

Contact Evans Engineering if the bradenhead pressure is affected by the casing test.

14. RU cementers. Pump Niobrara plug: 50 sxs (75 cf) Thermal 35 +0.5% CFR-2+0.25% FMC, mixed at 15.6 ppg & 1.51 cf/sk. The plug will cover 7900' to 7040'. Volume is based on 860' inside 4-1/2" production casing with no excess. RD cementers.

15. Slowly pull out of the cement and PUH to 6800'. Reverse circulate to ensure no cement is left in the tubing. PUH to 5000'.

16. RU Cementers. Pump Sussex balanced plug: 40 sxs (46 cf) 0:1:0 'G'+0.5% CFR-2+0.2% FMC+0.5% LWA, mixed at 15.8 ppg & 1.15 cf/sk. The plug will cover 5000' - 4470'. Volume is based on 530' in 4-1/2" production casing with no excess. RD cementers.

17. Slowly pull out of the cement and PUH to 4200'. Reverse circulate to ensure no cement is left in the tubing. PUH to 4100' and WOC.

18. WOC per cement company recommendation. Tag cement. Cement top needs to be at or above 4531' (200' above the Sussex TOP of 4731').

19. TOOH and SB 1310' 2-3/8" tubing.

20. RU WL. RIH and cut 4-1/2" casing at 1210'. RD WL.

21. Circulate with fresh water containing biocide to remove any gas.

22. Un-land casing. ND BOP. ND TH. Install BOP on casing head with 4-1/2" pipe rams.

23. TOOH and LD 1210' of 4-1/2" casing. Remove 4-1/2" pipe rams and install 2-3/8" pipe rams.

24. RIH with 2-3/8" tubing to 1310'.

25. Establish circulation with biocide treated water, and get bottoms up.

26. RU Cementers. Precede cement with 10 bbl (min) SAPP followed by a 20 bbl fresh water spacer. Pump Stub Plug: 360 sxs (479 cf) Type III+0.3% CFL-3+0.3% CFR-2+0.25 lb/sk Polyflake, mixed at 14.8 ppg & 1.33 cf/sk (100' in 4-1/2" production casing with no excess, 299' in 10.75" OH from caliper with 40% excess, and 577' in 8-5/8" surface casing with no excess). The plug will cover 1310' - 334'. RD cementers.

27. Slowly PUH to +/- 300'. Reverse circulate to ensure no cement is left in the tubing, and that TOC is no higher than +/- 300' (a CIBP will be set at 80'). PUH to 100' and WOC.

28. WOC per cement company recommendation. Tag cement. Cement top needs to be at or above 343' (50' above the Fox Hills sand TOP located at 393'). TOOH.

29. RU WL. RIH 8-5/8" CIBP to 80'. Set and pressure test to 1000 psi for 15 minutes. RDMO WL and WO rig.

30. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.

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: 10/27/2015

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: 12/24/2015

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

Expiration Date: 6/23/2016

COA Type	Description
	<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) No CBL on file. Submit CBL to COGCC prior to starting plugging or run CBL to verify the top of primary or squeezed cement is at least 200' over Niobrara.</li> <li>3) If unable to pull casing contact COGCC for plugging modifications.</li> <li>4) For 1310' plug: pump plug and displace, shut-in, WOC 4 hours and tag plug – must be 861' or shallower.</li> <li>5) Properly abandon flowlines as per Rule 1103. File electronic Form 42 once abandonment complete.</li> <li>6) Please submit existing gyro survey data with Form 6 (s) Subsequent Report of Abandonment.</li> <li>7) Clarify Dakota abandonment date (1993 stated on 6 (i) well info tab but zones tab says 2005), adjust Dakota production figures accordingly, and submit available contractor and ops reports on Dakota abandonment with Form 6 (s) Subsequent Report of Abandonment.</li> </ol>
	Production records need to be corrected prior to the approval of the Subsequent Report of Abandonment (Form 6). (Missing or inaccurate Dakota production reports from 11/2014 thru present)

### Attachment Check List

Att Doc Num	Name
400918377	FORM 6 INTENT SUBMITTED
400918386	PROPOSED PLUGGING PROCEDURE
400918387	WELLBORE DIAGRAM

Total Attach: 3 Files

### General Comments

User Group	Comment	Comment Date
Permit	Per operator changed plug depth to 8569'. Form 5A approved. Permitting Review Complete.	12/22/2015 12:20:36 PM
Permit	ON HOLD: waiting on form 5A with corrected depths/CIBP information.	11/30/2015 9:10:37 AM
Permit	Returned to draft: Missing documentation that Dakota has bridge plug. Mis matched dates and depths for plug. Production shows Dakota PR.	10/23/2015 2:02:22 PM
Public Room	Document verification complete 10/16/15	10/16/2015 3:53:57 PM

Total: 4 comment(s)