

**FORM**  
**6**  
Rev  
05/18

**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
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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: Jennifer Thomas  
 Name of Operator: KERR MCGEE OIL & GAS ONSHORE LP Phone: (720) 929-6808  
 Address: P O BOX 173779 Fax: \_\_\_\_\_  
 City: DENVER State: CO Zip: 80217- Email: jennifer\_thomas@oxy.com

**For "Intent" 24 hour notice required,** Name: Revas, Robbie Tel: (720) 661-7242  
 COGCC contact: Email: robbie.revas@state.co.us

API Number 05-123-30568-00  
 Well Name: ADAM FARM Well Number: 8-4  
 Location: QtrQtr: SWNE Section: 4 Township: 2N 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: 40.171241 Longitude: -105.004041  
 GPS Data:  
 Date of Measurement: 11/09/2009 PDOP Reading: 2.7 GPS Instrument Operator's Name: Renee Doiron  
 Reason for Abandonment:  Dry     Production Sub-economic     Mechanical Problems  
 Other \_\_\_\_\_  
 Casing to be pulled:  Yes     No    Estimated Depth: \_\_\_\_\_  
 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	7482	7500			
J SAND	7926	7958			
NIOBRARA	7220	7362			
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	970	285	970	0	VISU
1ST	7+7/8	4+1/2	11.6	8,082	210	8,082	6,650	CBL
			Stage Tool	5,092	500	5,140	1,325	CBL

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 7850 with 2 sacks cmt on top. CIBP #2: Depth 7150 with 2 sacks cmt on top.  
 CIBP #3: Depth 5000 with 2 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 \_\_\_\_\_ 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 1300 ft. with 110 sacks. Leave at least 100 ft. in casing 1080 CICR Depth  
 Perforate and squeeze at 1020 ft. with 390 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 \_\_\_\_\_ sacks half in. half out surface casing from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Plug Tagged:

Set \_\_\_\_\_ 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 Cut and Cap Date: \_\_\_\_\_

\*Wireline Contractor: \_\_\_\_\_ \*Cementing Contractor: \_\_\_\_\_

Type of Cement and Additives Used: \_\_\_\_\_

Flowline/Pipeline has been abandoned per Rule 1105  Yes  No \*ATTACH JOB SUMMARY

Technical Detail/Comments:

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

Signed: \_\_\_\_\_ Print Name: Jennifer Thomas

Title: Regulatory Analyst Date: 2/13/2020 Email: rscdjpostdrill@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: Jacobson, Eric Date: 2/18/2020

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_ Expiration Date: 8/17/2020

<b>COA Type</b>	<b>Description</b>
	Added CIBP #3 at 5000' with 2 sacks on top. Operator concurs.
	<p><b>WITH KNOWN BRADENHEAD PRESSURE</b></p> <p>The plug at 1300' needs to be placed and have an 8 hour WOC to assure that all fluid migration has been stopped. If that doesn't isolate the flow, additional attempts in front of the surface shoe plug will need to be attempted. Other downhole potential squeeze opportunities may need to be looked at before the 1020' plug.</p>
	<p>Prior to starting plugging operations a bradenhead test shall be performed if there has not been a reported bradenhead test within the 60 days immediately preceding the start of plugging operations.</p> <p>1) If, before opening the bradenhead valve, the beginning pressure is greater than 25 psi, sampling is required.</p> <p>2) If pressure remains at the conclusion of the test, or if any liquids were present during the test, sampling is required.</p> <p>The Form 17 shall be submitted within 10 days of the test. Sampling shall comply with Operator Guidance - Bradenhead Testing and Reporting Instructions. If samples are collected, copies of all final laboratory analytical results shall be provided to the COGCC within three (3) months of collecting the samples.</p> <p>If there is a need for sampling, contact COGCC engineering for verification of plugging procedure.</p>
	<p>1) Provide 48 hour notice of plugging MIRU via electronic Form 42.</p> <p>2) Prior to placing the 1020' plug: verify that all fluid migration (liquid or gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>3) After isolation has been verified, pump plug and displace. If cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 920' or shallower and provide 10 sack plug at surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug.</p> <p>5) Properly abandon on-location flowlines as per Rule 1105. File electronic Form 42 once abandonment is complete. Within 30 days of an operator completing abandonment requirements for an off-location flowline or crude oil transfer line, the operator must submit a Flowline Report, Form 44.</p> <p>6) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</p> <p>7) After placing the shallowest hydrocarbon isolating plug (7150'), operator must wait a sufficient time to confirm static conditions. If at any time after placing this plug there is evidence of pressure or of fluid migration, contact COGCC engineering before continuing operations.</p>
	Operator shall implement measures to control venting, to protect health and safety, and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard to public welfare.

### **Attachment Check List**

<b>Att Doc Num</b>	<b>Name</b>
402312324	WELL ABANDONMENT REPORT (INTENT)
402312341	PROPOSED PLUGGING PROCEDURE
402312343	WELLBORE DIAGRAM
402314968	FORM 6 INTENT SUBMITTED

Total Attach: 4 Files

### General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	Well file verification not completed prior to approval of NOIA.	02/14/2020
Engineer	Deepest Water Well within 1 Mile – 700' SB5 Base of Fox Hills - N/A  Bradenhead test on 6/5/2019 had 31 psi.	02/14/2020
Permit	-Confirmed as-drilled well location. -No other forms in process. -Production reporting up-to-date. -Confirmed productive intervals docnum: 2510650. -Reviewed WBD and procedure. -Pass.	02/13/2020

Total: 3 comment(s)



Engineer: Nick Rosenhagen  
Cell Phone Number: 303-345-7721

## PLUG and ABANDONMENT PROCEDURE

ADAM FARM 8-4

API: 05-123-30568

### Description

1. Provide 48-hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Notify Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment, and remove any automation prior to rig MIRU.
2. MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in Open Wells. Directional Survey was run on 06/28/17. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. COA: Verify Form 17 (State Bradenhead Test) has been run within 60 days of RU. If Form 17 required sampling, contact Engineering to verify plugging orders before beginning P&A operations.
5. Upon RU, check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL. Blow down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi.
6. Refer to BOP testing guidelines, fluid barrier management, and tripping best practices as applicable. All wireline operations will need a flanged changeover, WL BOP, Lubricator with an ID to fit the largest OD of the toolstring, and a packoff. Please contact foreman to discuss arrangement of stack, or alternate plan. Contact your foremen with any questions regarding standard operating procedures or any potential deviations.
7. MIRU WO rig. Kill well as necessary using biocide treated fresh water. Verify BOP and wellhead rating, inspect for appropriate API standards, pressure test BOP according to BOP testing guidelines. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
8. Once well has been killed, pump an additional 200bbls of water to ensure wellbore is clear of gas. Must maintain full column of fluid or constant pump rate to keep gas out until top perforations are covered with a cast iron bridge plug.
9. TOOH and SB 1080' of 2-3/8" tbg. LD remaining 2-3/8" tbg.
10. MIRU WL. PU and RIH with (4-1/2", 11.6#) gauge ring to 7860'. POOH.
11. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7850' (collars at 7827' & 7870'). POOH. RIH and dump 2 sx cement on CIBP. POOH.
12. PU and RIH with (4-1/2", 11.6#) CIBP and set at +/- 7150' (collars at 7139' & 7182'). POOH.
13. Top fill hole with biocide treated fresh water and circulate all gas out of well. PT CIBP to 500 psi for 15 minutes. A good PT has less than 10% loss in pressure and stabilization at the end of the test. Test can be extended longer in time if need be. Contact Foreman or Engineer to confirm proceeding after pressure test.
14. RIH and dump 2 sx of cement on top of CIBP. POOH.
15. COA: Confirm and document static conditions in the well before placing the Sussex plug. If there is evidence of pressure or fluid migration at any time after placing the Niobrara plug, contact Engineering.
16. Run CCL/GR/CBL/VDL log from +/- 2000' to surface to confirm squeeze location. Run one pass with 500 psi on casing. Future operations may change depending on CBL results.

17. Forward logs to engineering and in addition to the normal handling of logs/job summaries, email copies of all cement job logs/job summaries and invoices to DJVendors@anadarko.com within 24 hours of job completion. Note that squeeze hole locations and cement volumes may vary depending on CBL results.
18. PU and RIH with one 4' 3-1/8" perf gun with 4 spf, 120° phasing, and 0.5 EHD. Shoot 4' of squeeze holes at 1300'. POOH.
19. Establish circulation down production casing out the surface casing with fresh water and several sweeps of mud thinner with the rig pump. Pump at least two hole volumes (146 bbl) or until returns are clean. If unable to gain circulation, contact Foreman to discuss reverse circulation. Note: start with rig pump FIRST.
20. If rig pump cannot pump at 6bpm, use cement truck for this step. Start at 1.5 bpm and slowly STEP up to maintain a minimum of 6 bpm with fresh water and surfactant during the remainder of circulation to promote hole cleaning and residual gas removal.
21. PU and RIH with one 4' 3-1/8" perf gun with 4 spf, 120° phasing, and 0.5 EHD. Shoot 4' of squeeze holes at 1020'. POOH. RDMO WL.
22. PU and TIH with (4.5") CICR on 2.375" tbg. Set CICR at 1080'. Close bradenhead. Pump cement down tubing and out the production casing x tubing annulus.
23. Note: ensure rig crew is ready to pull tubing as soon as cement is done pumping to prevent stuck tubing.
24. MIRU Cementers. Pump 20 bbl pre-flush. Pump Bradenhead Circulation Plug: 110 sx (25 bbls or 136 cuft) Class G, assuming 15.8 ppg & 1.23 yld with 0.40% Latex, 2% Calcium Chloride, and 4% Gypsum. Mix water must be 70°F (may have to bring out cold water to dilute heated water). Volume is based on 60' in 4.5" production casing on top of the CICR, 220' in 4.5" production casing under the CICR, and 280' in 4.5" production casing x 7.875" open hole with 60% excess. This plug is designed to cover 1300' - 1020'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during the job.
25. Pull out of cement at a rate of 1 jt/min. Displace cement with 1 bbl of fresh water. TOO H to 1020'. Attempt to reverse circulate down the production casing and up tubing through stinger with 12 ppg mud. If circulation cannot be achieved, forward circulate down tubing, up production casing with 12 ppg mud to ensure no cement is left in the tbg and to clean up top perforation holes. TOO H all 2.375" tbg while continuing to fill hole with mud. Note: you will need at least 16 bbl 12 ppg mud to fill hole from estimated TOC to surface while TOO H.
26. Establish circulation down casing and up bradenhead with 12 ppg mud to ensure top perforations are able to circulate before SDFN. WOC 8 hours.
27. COA: Verify and document that all pressure and fluid migration has been eliminated prior to placing the SC shoe plug at 1020'. If there is evidence of pressure or fluid migration, contact Engineering.
28. Open bradenhead - circulate through both surface valves if applicable to the wellhead for water/mud circulation and cement.
29. ND BOP. Connect B1 swedge to 4.5" casing.
30. MIRU Cementers. Pump 20 bbl pre-flush. Pump surface circulation plug: 390 sx (86 bbls or 480 cuft) Class G, assuming 15.8 ppg & 1.23 yld with 0.40% Latex, 2% Calcium Chloride, and 4% Gypsum. Mix water must be 70°F (may have to bring out cold water to dilute heated water). Volume is based on 1020' in 4.5" production casing with no excess, 50' in 4.5" production casing x 7.875 open hole annulus with 100% excess, and 970' in 4.5" production casing x 8-5/8" surface casing annulus with no excess plus an additional 100 sx. This plug is designed to cover 1020' - 0'. Excess is calculated into the job - pump

cement until you receive 15.8 ppg cement on the backside. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during the job.

31. If returns are not circulated to surface, WOC 4 hours and tag. Cement must be 80' or shallower. RDMO WO rig.
32. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to [rscDJVendors@anadarko.com](mailto:rscDJVendors@anadarko.com) within 24 hours of completion of the job.
33. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
34. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
35. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
36. Welder cut casing minimum 5' below ground level.
37. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
38. Obtain GPS location data as per COGCC Rule 215 and send to [rscDJVendors@anadarko.com](mailto:rscDJVendors@anadarko.com).
39. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
40. Back fill hole with fill. Clean location, and level.
41. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.