

FORM

6

Rev  
11/20

# State of Colorado Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



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Replug By Other Operator

Document Number:

403116201

Date Received:

07/26/2022

## 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: Lindsay Frase

Name of Operator: KERR MCGEE OIL &amp; GAS ONSHORE LP

Phone: (970) 515-1616

Address: P O BOX 173779

Fax:

City: DENVER State: CO Zip: 80217-

Email: Lindsay\_Frase@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 05-123-19014-00

Well Name: PSC

Well Number: 31-10

Location: QtrQtr: SENW Section: 10 Township: 3N Range: 67W 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: 40.242596

Longitude: -104.878274

GPS Data: GPS Quality Value: Type of GPS Quality Value: Date of Measurement:

Reason for Abandonment: ☐ Dry ☐ Production Sub-economic ☐ Mechanical Problems☒ Other Re-EntryCasing to be pulled: ☐ Yes ☒ No Estimated Depth:Fish in Hole: ☐ Yes ☒ No If yes, explain details belowWellbore 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

Total: 0 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	497	360	497	0	VISU

## Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 260 with 100 sacks cmt on top. CIBP #2: Depth \_\_\_\_\_ with \_\_\_\_\_ 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 <u>145</u> sks cmt from <u>7000</u> ft. to <u>6500</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set <u>259</u> sks cmt from <u>4300</u> ft. to <u>3600</u> ft.	Plug Type: <u>OPEN HOLE</u>	Plug Tagged: <input type="checkbox"/>
Set <u>254</u> sks cmt from <u>1800</u> ft. to <u>1100</u> ft.	Plug Type: <u>OPEN HOLE</u>	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 95 sacks half in. half out surface casing from 600 ft. to 300 ft. Plug Tagged: ☐

Set 100 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

Surface Plug Setting Date: \_\_\_\_\_ Cut and Cap Date: \_\_\_\_\_ Number of Days from Setting Surface Plug to Capping or Sealing the Well: \_\_\_\_\_

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

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

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

Flowline/Pipeline has been abandoned per Rule 1105 ☐ Yes ☐ No

Technical Detail/Comments:

#### BMPs

##### Signage for P&As:

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.

##### Notifications:

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.

##### Wellbore Pressure:

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.

##### Odor:

Closed, upright tanks are being utilized to mitigate odor.

##### Water:

Water will be placed on dirt access roads to mitigate dust as needed.

##### Lighting:

Operations are daylight-only; no lighting impacts are anticipated from operations.

##### Noise:

Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.

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

Signed: \_\_\_\_\_

Print Name: Lindsay Frase

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: Haverkamp, Curtis

Date: 8/8/2022

**CONDITIONS OF APPROVAL, IF ANY:**

Expiration Date: 2/7/2023

**Condition of Approval**

**COA Type**

**Description**

	<p>1) Provide electronic Form 42 Notice of MIRU 2 business days ahead of operations and electronic Form 42 Notice of Plugging Operations 48 hours prior to mobilizing for plugging operations.</p> <p>2) Prior to placing cement above the base of Upper Pierre: verify that all fluid (liquid and gas) migration has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>3) If shoe plug cement is not circulated to surface, shut-in, WOC 4 hours then tag plug – must be at 447' or shallower and provide a minimum of 10 sx plug at the surface.</p> <p>4) Leave at least 100' of cement in the wellbore for each plug without mechanical isolation.</p> <p>5) With the Form 6 SRA operator must provide written documentation which positively affirms each COA listed above has been addressed.</p>
	Consistent with Rule 911.a, a Form 27 must be approved prior to cut and cap, conducting flowline abandonment, or removing production equipment. Allow 30 days for Director review of the Form 27.
	If unable to wash down after drilling out plugs previously set, stop and contact COGCC engineer for an update to the plugging procedure.
	Due to proximity to surface water, Operator will review the stormwater program and implement stormwater BMPs and erosion control measures as needed to prevent fine-grained sediment and impacted stormwater runoff from entering surface water.
	<p>Noise:</p> <p>Operations will be in compliance with Table 423-1 requirements. Based off the rig sound signature, rig orientation will be considered to reduce noise levels to nearby building units.</p>
	<p>Water:</p> <p>Water will be placed on dirt access roads to mitigate dust as needed.</p>
	<p>Odor:</p> <p>Operator has stated closed, upright tanks are being utilized to mitigate odor.</p>
	<p>Wellbore Pressure:</p> <p>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.</p>
	<p>Notifications:</p> <p>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.</p>
	<p>Signage for P&amp;As:</p> <p>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.</p>
10 COAs	

### **Attachment List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
403116201	WELL ABANDONMENT REPORT (INTENT)
403116244	PROPOSED PLUGGING PROCEDURE
403116245	WELLBORE DIAGRAM
403117672	LOCATION PHOTO
403117674	SURFACE OWNER CONSENT
403129641	FORM 6 INTENT SUBMITTED

Total Attach: 6 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Engineer	DWR base of Fox Hills: 116' Deepest water well within 1 mile: 500' (PIERRE SHALE)	08/08/2022
OGLA	OGLA Review complete.	08/08/2022
OGLA	Well is in a mule deer migration corridor and severe winter range area. Although plugging and abandonment operations with heavy equipment will be allowed, the operator is strongly encouraged to avoid them between December 1 through April 30.	08/08/2022
Permit	Submit "as drilled" GPS data on Subsequent Report of Abandonment. GPS data must meet the requirements of Rule 216.	08/01/2022
Permit	Reviewed attachments. Pass.	08/01/2022

Total: 5 comment(s)

## OCCIDENTAL PETROLEUM CORPORATION

Please contact your area engineer with any questions concerning this procedure.

7/26/2022

**PLUG and ABANDONMENT PROCEDURE**

PSC 31-10

API: 05-123-19014

**Step Description**

<b>1</b>	Well is being re-entered to P&A well to current standards due to it being offset to upcoming fracs.
<b>2</b>	<b>Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (i.e. submit Form 42, etc.)</b>
<b>3</b>	Perform pre-job safety meeting and review JSA. Ensure all parties know their roles and responsibilities and can identify hazards.
<b>4</b>	Follow all Rockies Well Servicing guidelines.
<b>5</b>	Stop and complete new JSA prior to all barrier changes.
<b>6</b>	Attempt to leave kill string in the hole every evening/weekend. If this is not possible, discuss with foreman/engineer.
<b>7</b>	Locate and expose 8-5/8" casing stub.
<b>8</b>	Tie into and weld on 8-5/8" 24# casing stub above GL.
<b>9</b>	Install 8-5/8" 3K Q92 well head with ball valves on both outlets.
<b>10</b>	Check and record surface casing pressure.
<b>11</b>	MIRU rig/ equipment/tanks/pumps.
<b>12</b>	Perform negative test and ensure well is dead. Wait 15-30 minutes to verify (cement is at surface).
<b>13</b>	Pressure test BOPE, annular and 2" 1509 iron to API standards. Chart and record pressure tests. Please refer to Testing Procedures and Testing Table listed in the APPENDIX tab. All tests are performed on stump. Note: ensure BOPE accumulator controls are properly placed and pressurized.
<b>14</b>	NU and torque BOPE to casing head. The BOP consists of the following components: 7-1/16" double gate BOP with blind rams and pipe rams (for 4.5" DP), annular bag, 2 TIW valves accessible with change overs if applicable (i.e. drill collars).
<b>15</b>	Test TIW valves. Chart tests and document accordingly.
<b>16</b>	Spot in a pipe rack for 4.5" DP.
<b>17</b>	MIRU power swivel and kelly cock valve.
<b>18</b>	PU and TIH with 7-7/8" drag drill bit and 4.5" DP. Mud motor and agitator can be utilized after drilling out the first joint. Note: have changeovers accessible when drill collars are used.
<b>19</b>	Drill 10 sx cement plug from surface through estimated BOC at 30'. Continue drilling out 40 sx cement plug at shoe, BOC estimated 532'. Use directional assembly to hold vertical through shoe plug until no more cement returns. IF WE BEGIN TO SEE INDICATION OF NEW FORMATION BEING DRILLED, STOP AND DISCUSS W/ FOREMAN/ENGINEER.  Continue drillout to 7000', we will not need to drillout the 7024' plug since our deepest plug will be set above it.
<b>20</b>	Circulate with biocide treated fresh water to clean the hole. Pump until returns are clean.
<b>21</b>	TOOH, LD drill bit, mud motor, agitator, and drill collars. SB all 4.5" DP.
<b>22</b>	PU and TIH with 8-5/8" bit and scraper. Clean surface casing from surface to 497'. Run scraper over 90' to 110' 2-3 times to ensure casing is clean for CIBP. TOOH, LD bit and scraper, SB all DP.
<b>23</b>	TIH with diverter tool on 4.5" DP to 7000'. Establish circulation to surface with biocide treated fresh water and pump at least three hole-volumes to clean up wellbore. Start at a low rate, then once returns are clean, slowly increase rate to 4 bpm.
<b>24</b>	MIRU Cementers. Pump Surface Plug: Pump 145 sx (39.2 bbl or 220 cf) of the AGM Nio blend: 0.4% Latex, 0.4% Fluid Loss, 0.2% Retarder, 35% Silica Flour, 0.3% Dispersant. Volume based on 500' with 30% excess. Cement will be from 7000' to 6500. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
<b>25</b>	Pull out of cement. TOOH to 6500'. Forward circulate tbg clean for a minimum of 2 bottoms up. SB 4.5" DP, LD remaining. WOC.

26	TIH with diverter tool on 4.5" DP to 4300'. Establish circulation to surface with biocide treated fresh water and pump at least three hole-volumes to clean up wellbore. Start at a low rate, then once returns are clean, slowly increase rate to 4 bpm.
27	<b>COA: Confirm and document static conditions in the well before placing the next plug. If there is evidence of pressure or fluid migration at any time after placing the Nio plug, contact Engineering.</b>
28	MIRU Cementers. Pump Surface Plug: Pump 259 sx (54.8 bbl or 308 cf) of the AGM Sus blend: 2% Gypsum, 0.4% Latex, 0.25% Fluid Loss, 0.3% Dispersant. Volume based on 700' with 30% excess. Cement will be from 4300' to 3600. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
29	Pull out of cement. TOOH to 3600'. Forward circulate tbg clean. SB 4.5" DP, LD remaining. WOC.
30	TIH with diverter tool on 4.5" DP to 1800'. Establish circulation to surface with biocide treated fresh water and pump at least three hole-volumes to clean up wellbore. Start at a low rate, then once returns are clean, slowly increase rate to 4 bpm.
31	MIRU Cementers. Pump Surface Plug: Pump 254 sx (54.8 bbl or 308 cf) of the AGM Upr blend: 1.5% CaCl, 4% Gypsum, 0.4% Latex. Volume based on 700' with 30% excess. Cement will be from 1800' to 1100. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
32	Pull out of cement. TOOH to 1100'. Forward circulate tbg clean. SB 4.5" DP, LD remaining. WOC.
33	<b>COA: WOC 8 hours. If there is evidence of pressure or fluid migration, contact Engineering as there will need to be additional remediation attempts before the SC shoe plug.</b>
34	TIH with diverter tool on 4.5" DP to 600'. Establish circulation to surface with biocide treated fresh water and pump at least three hole-volumes to clean up wellbore. Start at a low rate, then once returns are clean, slowly increase rate to 4 bpm.
35	Load hole with 38 bbls of heated surfactant to clean surface casing walls, wellhead, and surface valves/lines. Let soak for at least 2 hours. Circulate out heated surfactant with fresh water.
36	MIRU cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Surface Casing Shoe Plug: Pump 95 sx (20.6 bbl or 115 cf) of the AGM Surf blend: 2% CaCl, 4% Gypsum, 0.4% Latex. Volume is based on 100' in 7.875 bit size open hole with 30% excess factor, 200' in the 8-5/8, 24# surface casing with no excess. The plug is designed to cover 600'-300'. Collect wet and dry samples of cement to be left on rig. RDMO Cementers. Notify engineering if circulation is ever lost during job.
37	Pull out of cement. TOOH to 260'. Reverse circulate tbg clean with fresh water. WOC.
38	<b>COA: If cement was not circulated to surface, then WOC 4 hours. Tag TOC. TOC must be 447' or shallower. If tag is too deep or there is evidence of pressure or fluid migration, contact Engineering.</b>
39	MRIU WL. RIH and tag cement with gauge ring to verify appropriate coverage above the surface casing shoe. Notify engineering if tag is low. Pressure test TOC to 500psi for 15 minutes. Record and notify engineering and foreman of results.
40	PU and RIH with 8-5/8" 24# CIBP. Set CIBP at 260'. POOH. RDMO WL.
41	TIH with diverter tool on 4.5" DP to 260'.
42	MIRU Cementers. Pump Surface Plug: Pump 100 sx (21.6 bbl or 121 cf) of the AGM Surf blend: 2% CaCl, 4% Gypsum, 0.4% Latex. Volume based on 260' inside 8-5/8, 24# surface casing with no excess. Cement will be from 260' to surface. This includes 5 additional bbls for contamination. Verify and document cement to surface. Collect wet and dry samples of cement to be left on rig.
43	Pull out of cement. TOOH, LD all but one joint of 4.5" DP. Circulate clean with water to ensure TOC is low enough for C&C team. TOOH and LD final joint of 4.5" DP. RDMO cementers. ND BOP. Install night cap. RDMO WO rig.
44	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.
45	Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
46	Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
47	Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
48	Welder cut casing minimum 5' below ground level.
49	Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
50	Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.

<b>51</b>	Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
<b>52</b>	Back fill hole with fill. Clean location, and level.
<b>53</b>	Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.

