

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



DE	ET	OE	ES
Document Number: 403020123			
Date Received: 04/19/2022			

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: <u>10110</u>	Contact Name: <u>Kapri McMillan</u>
Name of Operator: <u>GREAT WESTERN OPERATING COMPANY LLC</u>	Phone: <u>(970) 364-2826</u>
Address: <u>1001 17TH STREET #2000</u>	Fax: _____
City: <u>DENVER</u> State: <u>CO</u> Zip: <u>80202</u>	Email: <u>kcmillan@gwp.com</u>
For "Intent" 24 hour notice required, Name: <u>Santistevan, Brittani</u> Tel: <u>(720) 471-1110</u>	
COGCC contact: Email: <u>brittani.santistevan@state.co.us</u>	

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

API Number <u>05-123-05508-00</u>	Well Name: <u>PIERCE LYONS UNIT-</u>	Well Number: <u>1</u>
Location: QtrQtr: <u>NWSE</u> Section: <u>27</u> Township: <u>8N</u> Range: <u>66W</u> Meridian: <u>6</u>		
County: <u>WELD</u>	Federal, Indian or State Lease Number: _____	
Field Name: <u>PIERCE</u>	Field Number: <u>69000</u>	

Only Complete the Following Background Information for Intent to Abandon

Latitude: 40.631160 Longitude: -104.761090

GPS Data: GPS Quality Value: 6.0 Type of GPS Quality Value: PDOP Date of Measurement: 04/10/2006

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

Casing to be pulled: Yes No Estimated Depth: 2500

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
LYONS	9190	9248			

Total: 1 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
CONDUCTOR	22	18	16 ga	16 ga	0	28	135	28	0	VISU
SURF	12+1/4	10+3/4	J55	40.5	0	489	400	489	0	VISU
1ST	10	7	J55N80	23/26	0	9265	350	9265	7300	CALC

Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 9100 with 50 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 20 sks cmt from 7000 ft. to 6858 ft. Plug Type: CASING Plug Tagged:
Set 20 sks cmt from 4300 ft. to 4193 ft. Plug Type: CASING Plug Tagged:
Set 285 sks cmt from 2550 ft. to 2000 ft. Plug Type: STUB PLUG 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 7200 ft. with 100 sacks. Leave at least 100 ft. in casing 7000 CICR Depth

Perforate and squeeze at 4500 ft. with 82 sacks. Leave at least 100 ft. in casing 4300 CICR Depth

Perforate and squeeze at _____ ft. with _____ sacks. Leave at least 100 ft. in casing _____ CICR Depth

(Cast Iron Cement Retainer Depth)

Set 624 sacks half in. half out surface casing from 1200 ft. to 0 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

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:

Procedure:

- 1 Contact COGCC
- 2 MIRU
- 3 POOH with ESP, send to Baker to be inspected.
- 4 TOOH with tubing, stand back.
- 5 RIH w/ wireline, set CIBP @ 9100'
- 6 Run CBL, send results to engineer before proceeding
- 7 RIH, tag CIBP, roll hole clean, pressure test to 1000 psi
- 8 Pump 50 sx Thermal 35 on top of plug at 9100', ETOC 8746'
- 9 Roll hole clean
- 10 TOOH w/ tubing, lay down to about 7000', stand back the rest
- 11 RIH w/ WL and shoot holes at 7200' & 6900'
- 12 RIH and set CICR @ 7000'
- 13 Squeeze 100 sx Thermal 35 thru CICR, leave additional 20 sx on top
- 14 Roll hole clean
- 15 TOOH w/ tubing, lay down to about 4300', stand back the rest
- 16 RIH w/ WL and shoot holes at 4200' & 4500'
- 17 RIH and set CICR @ 4300'
- 18 Squeeze 82 sx Class G thru CICR, leave additional 20 sx on top (Class G)
- 19 Roll hole clean
- 20 Cut & pull casing from 2500'
- 21 Pump stub plug from 2550' w/ 285 sx Class G+3%CC, ETOC 2000'
- 22 WOC 4 hours
- 23 Tag plug & verify no migration
- 24 PU to 1200', pump 624 sx Class G+3%CC from 1200' to surface
- 25 WOC 4 hours
- 26 RIH tag, top off w/ cement as needed
- 27 RDMO
- 28 Cut & cap casing 4' - 6' below GL w/ plate (Well Name, API, Legal Location)

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

Signed: _____ Print Name: Renee Kendrick
Title: SR Regulatory Analyst Date: 4/19/2022 Email: rkendrick@gwp.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: JENKINS, STEVE Date: 5/4/2022

CONDITIONS OF APPROVAL, IF ANY: _____ Expiration Date: 11/3/2022

Condition of Approval

COA Type

Description

<u>COA Type</u>	<u>Description</u>
	Verify existing cement coverage by CBL - submit to COGCC for verification of plugging orders prior to continuing plugging operations.
	Revise production reporting from 11/2019, to present to reflect TA status rather than SI.

	<p>1) Provide 2 business day notice of plugging MIRU via electronic Form 42, and provide 48 hours Notice of Plugging Operations, prior to mobilizing for plugging operations via electronic Form 42. These are 2 separate notifications, required by Rules 408.e and 408.I.</p> <p>2) After placing the shallowest hydrocarbon isolating plug (2550'), 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> <p>3) Prior to placing the 1200' plug: verify that all fluid migration (liquid and gas) has been eliminated. If evidence of fluid migration or pressure remains, contact COGCC Engineer for an update to plugging orders.</p> <p>4) 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 839' or shallower and provide 10 sx plug at the surface.</p> <p>5) Leave at least 100' of cement in the wellbore for each plug.</p> <p>6) Properly abandon flowlines as per Rule 1105. Pursuant to Rule 911.a. Closure of Oil and Gas Facilities, Operator will submit Site Investigation and Remediation Workplans via Form 27 for COGCC prior approval before cutting and capping the plugged well, conducting flowline abandonment, and removing production equipment. Pursuant to Rule 1105.f. Abandonment Verification, within 90 days of an operator completing abandonment requirements for a flowline or crude oil transfer line, an operator must submit a Field Operations Notice, Form 42-Abandonment of Flowlines for on-location flowlines, and a Flowline Report, Form 44, for off-location flowlines or crude oil transfer lines.</p> <p>7) With the Form 6 SRA operator must provide written documentation which positively affirms each COA has been addressed.</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>Need to add cement up to 6912' behind casing. Emailed operator.</p> <p>Operator response: I looked at it again. I designed this plug using the Thermal 35 cement blend that we typically use across producing formations, that yield is 1.52ft/sx. I did also design it using the capacity between 7" casing and 10-3/4" hole (which is bigger than it is) and calculated it with 300 ft on the backside from 7200' to 6900' which calculates to 72sx on the backside. I planned to pump 100sx thru the CICR which would be 28 sx in the casing below the CICR and 72 behind the casing.</p>
	<p>Prior to commencing operations, at a minimum, the operator will provide an informational sheet to the owners/occupants of BUs that are adjacent to the parcel on which the well is located. The sheet will include the operator's contact information and the nature, timing, and expected duration of the PA operations.</p>
	<p>Operator will implement measures to control emissions 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 health, welfare, and the environment.</p>
	<p>Prior to commencing operations, the operator will contact Town of Pierce to coordinate posting signs at conspicuous locations. The signs will indicate P&A operations are being conducted, the well name, well location information, and the Operator's contact information. Signs must not create a potential traffic hazard.</p>
8 COAs	

Attachment List

<u>Att Doc Num</u>	<u>Name</u>
403020123	FORM 6 INTENT SUBMITTED
403020148	WELLBORE DIAGRAM
403020149	WELLBORE DIAGRAM

Total Attach: 3 Files

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Engineer	1) Deepest Water Well within 1 mile = 465'. 2) Fox Hills Bottom- N/A, per SB5.	05/04/2022
OGLA	OGLA review complete.	04/29/2022
Permit	Confirmed as-drilled well location. No other forms in process. Production reporting up-to-date for this operator. Confirmed productive interval docnum: 254173. Reviewed WBDs. Pass.	04/26/2022

Total: 3 comment(s)