

FORM  
6Rev  
11/20State 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:

402608187

Date Received:

03/01/2021

## 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: 96850

Contact Name: Richard Miller

Name of Operator: TEP ROCKY MOUNTAIN LLC

Phone: (985) 7743761

Address: PO BOX 370

Fax:

City: PARACHUTE State: CO Zip: 81635

Email: rmiller@terraep.com

For "Intent" 24 hour notice required,

Name: Longworth, Mike

Tel: (970) 812-7644

COGCC contact:

Email: michael.longworth@state.co.us

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

API Number 05-045-06686-00

Well Name: HOAGLUND

Well Number: GV 79-35

Location: QtrQtr: SESE Section: 35 Township: 6S Range: 95W Meridian: 6

County: GARFIELD

Federal, Indian or State Lease Number: 12669

Field Name: PARACHUTE

Field Number: 67350

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

Latitude: 39.475521

Longitude: -107.960166

GPS Data: GPS Quality Value: 0.0 Type of GPS Quality Value: PDOP Date of Measurement: 06/06/2012

Reason for Abandonment: ☐ Dry ☒ Production Sub-economic ☐ Mechanical Problems☐ OtherCasing 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: 2 7/16" tubing fish at 7248'

## Current and Previously Abandoned Zones

Formation	Perf. Top	Perf. Btm	Abandoned Date	Method of Isolation	Plug Depth
WILLIAMS FORK	4952	6546			
CAMEO COAL	6783	7220	10/02/1992	BRIDGE PLUG	6693

Total: 2 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	1818	700	1818	0	VISU
1ST	7+7/8	5+1/2	N-80	15.5 & 17	0	7546	550	7546	4050	CALC
		5+1/2		Stage Tool		5537	400	5537	4050	

### Plugging Procedure for Intent and Subsequent Report

CIBP #1: Depth 4925 with 3 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 \_\_\_\_\_ 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 3751 ft. with 177 sacks. Leave at least 100 ft. in casing 3701 CICR Depth  
Perforate and squeeze at 2150 ft. with 32 sacks. Leave at least 100 ft. in casing \_\_\_\_\_ CICR Depth  
Perforate and squeeze at 1868 ft. with 45 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 15 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:

Proposed Procedure:

1. Notify COGCC via Form 42, 48 hrs prior to start of activity
2. POOH and lay down tubing string
3. Set CIBP + dump bail 3 sks cement at 5,800' in 5-1/2" casing. TOC @ 5,775'
4. Pressure Test casing to 500 psi for 15 minutes and monitor leak off. Notify BLM and COGCC if test fails.
5. Set CIBP at 1,868'
6. Shoot 3 holes in 5-1/2" casing at 1,863' and pump 45 sks cement. TOC @ 1,718'
7. Cut off 8-5/8" and 5-1/2" casing to 4' below ground level
8. Top out a 50-ft surface cement plug from surface in 5-1/2" x 8-5/8" annulus (9 sks)
9. Top out a 50-ft surface cement plug inside the 5-1/2" casing (6 sks)
10. Submit wireline and cement field tickets to engineer
11. Monitor well for 5 days to ensure successful plugging
12. Weld a steel plate dryhole marker (Above Ground) with a weep hole on top of casing (See Details Below)
13. Submit subsequent Form 6 to COGCC
14. Backfill cellar
15. Properly abandon flowlines per Rule 1105. File electronic Form 42 after flowline abandonment is complete. Wellhead line is "on location".

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

Signed: \_\_\_\_\_ Print Name: Vicki Schoeber

Title: Regulatory Specialist Date: 3/1/2021 Email: vschoeber@terraep.com

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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: Katz, Aaron Date: 5/4/2021

**CONDITIONS OF APPROVAL, IF ANY:** \_\_\_\_\_ Expiration Date: 11/3/2021

## Condition of Approval

### COA Type

### Description

- 1) Provide 48 hour notice of plugging MIRU via electronic Form 42.
- 2) The approved Form 6, Notice of Intent will be at the location during all phases of plugging operations.
- 3) Operator shall implement measures to control venting and to ensure that vapors and odors from well plugging operations do not constitute a nuisance or hazard.
- 4) 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.
- 5) Check bradenhead annulus pressure prior to MIRU. Perform a bradenhead test if bradenhead pressure is greater than 25 psi, submit results electronically on a Form 17, and contact COGCC area engineer.  
If a well has a bradenhead pressure greater than 25 PSI measured at the time of the test then a sample of both the production and bradenhead gas (if sufficient volume to analyze) shall be collected and submitted for laboratory analysis of the gas composition and stable isotopes. The compositional analysis should include hydrogen, argon, oxygen, carbon dioxide, nitrogen, methane (C1), ethane (C2), ethene, propane (nC3), isobutane (iC4), butane (nC4), isopentane (iC5), pentane (nC5), hexanes +, specific gravity and British Thermal Units (BTU). The stable isotope analysis should include delta DC1, delta 13C1, delta 13C2, delta 13C3, delta 13iC4, delta 13nC4, delta 13iC5 (if possible), delta 13nC5 (if possible), and delta 13C of CO2 (if possible). The analytical results shall be submitted to the COGCC via Form 43 (Analytical Sample Submittal Form).  
Gas sample containers should be filled in accordance with container manufacturer or laboratory recommendations; purging multiple container volumes may not be feasible due to limited gas volumes.  
If water is encountered in the bradenhead during testing then samples (if sufficient quantity to analyze) should be collected and submitted for the laboratory analysis of major anions (chloride, carbonate, bicarbonate, and sulfate), cations (sodium, potassium, calcium, and magnesium) total dissolved solids (TDS), BTEX, DRO, GRO, and dissolved gasses (RSK 175). If there is a limited amount of water available then anions, cations and BTEX should be given first priority. Data from bradenhead water samples shall be submitted to the COGCC via Form 43.  
Please refer to Appendix A of the COGCC Operator Instructions for Bradenhead Testing and Reporting for more information regarding testing and sampling protocol. The operator shall provide notice to Environmental Supervisor Alex Fischer at alex.fischer@state.co.us or 303-894-2100 X 5138 and COGCC Engineer Craig Burger at craig.burger@state.co.us or 970-319-4194, a minimum of 72 hours prior to conducting field operations. Bradenhead testing and sample collection (if applicable). 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.
- 6) The Operator will not cap or seal the well until 5 days after placing the last plug to allow monitoring for successful plugging and will cap or seal the well within 90 days after placing the last plug.

1 COA

### **Attachment List**

<b><u>Att Doc Num</u></b>	<b><u>Name</u></b>
2597776	WELLBORE DIAGRAM AND PLUGGING PROCEDURE
402608187	WELL ABANDONMENT REPORT (INTENT)
402679807	FORM 6 INTENT SUBMITTED

Total Attach: 3 Files

### **General Comments**

<b><u>User Group</u></b>	<b><u>Comment</u></b>	<b><u>Comment Date</u></b>
Engineer	Updated Scout card casing and cement details. Uploaded updated WBD and procedure Updated plugging procedure per operators updated procedure	04/28/2021

Total: 1 comment(s)



## Exploration and Production Well P&A Procedure

Wellname **Hoagland GV 79-35**  
Location **SESE 35 6S95W 6**  
Field **Parachute**  
County **Garfield**  
API **05-045-06686**

Prepared By: Richard Miller  
Phone: 832-726-1173

Revision Date:  
5/4/2021

ELEV 5,286'  
Footages 600 FSL 1150 FEL

Casing: 8-5/8" 24#, @ 1,818-ft  
5-1/2" 15.5# & 17#, N-80 @ 7,546-ft

Current Top of Cement: 4,050-ft (Wellbore Diagram - 10/9/1997)

**Purpose: Plug and abandon**

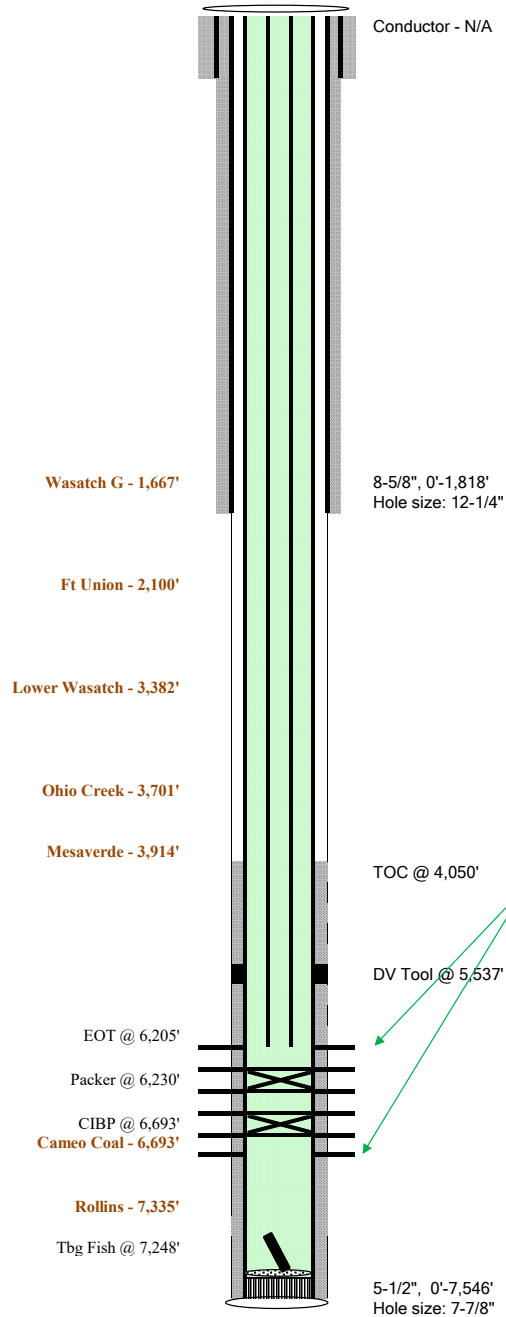
**Zone: Entire Wellbore**

### Proposed Procedure

- 1 Notify COGCC via Form 42, 48 hrs prior to start of activity
- 2 POOH and stack back tubing string
- 3 Set CIBP + dump bail 3 sks cement at 4,925" in 5-1/2" casing. TOC @ 4,900'
- 4 Pressure Test casing to 500 psi for 15 minutes and monitor leak off. Notify BLM and COGCC if test fails.
- 5 Shoot 3 holes in 5-1/2" casing at 3,751'
- 6 RIH with 5-1/2" Cement Retainer on tubing, set at 3,701'
- 7 Pump 117 sks cement through Retainer, TOC in annulus @ 3,182'
- 8 Stab out of Retainer, pump 60 sks cement. TOC in 5-1/2" @ 3,182'
- 9 Shoot 3 holes in 5-1/2" casing at 2,150'
- 10 Pump 32 sks cement in 5-1/2" casing and annulus. TOC @ 2,050'
- 11 Set CIBP at 1,868'
- 12 Shoot 3 holes in 5-1/2" casing at 1,863' and pump 45 sks cement. TOC @ 1,718'
- 13 Cut off 8-5/8" and 5-1/2" casing to 4' below ground level
- 14 Top out a 50-ft surface cement plug from surfacde in 5-1/2" x 8-5/8" annulus (9 sks)
- 15 Top out a 50-ft surface cement plug inside the 5-1/2" casing (6 sks)
- 16 Submit wireline and cement field tickets to engineer
- 17 Monitor well for 5 days to ensure successful plugging
- 18 Weld a steel plate dryhole marker (Above Ground) with a weep hole on top of casing (See Details Below)
- 19 Submit subsequent Form 6 to COGCC
- 20 Backfill cellar
- 21 Properly abandon flowlines per Rule 1105. File electronic Form 42 after flowline abandonment is complete

### Dryhole Marker Details

1. Well Name and Number: Hoagland GV 79-35
2. Surveyed Location: SESE 35 6S95W 6
3. API Number: 05-045-06686



Well Name  
Location  
Field  
County  
API  
Elevation\_KB  
Elevation\_GL  
Footages

Hoagland GV 79-35  
SESE 35 6S95W 6  
Parachute  
Garfield  
05-045-06686  
5,299' (13')  
5,286'  
600 FSL 1150 FEL

### Spud 7/6/1990

Surf Casing	0-1,818'	8-5/8"	24# J-55
Prod Casing	0-7,546'	5-1/2"	15.5/17# N-80/K-55
DV Tool	5,537'		
Tubing	Landed at 6,204.92'	2-3/8"	4.7# J-55 EUE
	198 Joints		

### Formation Tops:

Wasatch G	1,667'
Ft Union	2,100'
Lower Wasatch	3,382'
Ohio Creek	3,701'
Mesaverde	3,914'
Cameo Coal	6,693'
Rollins	7,335'

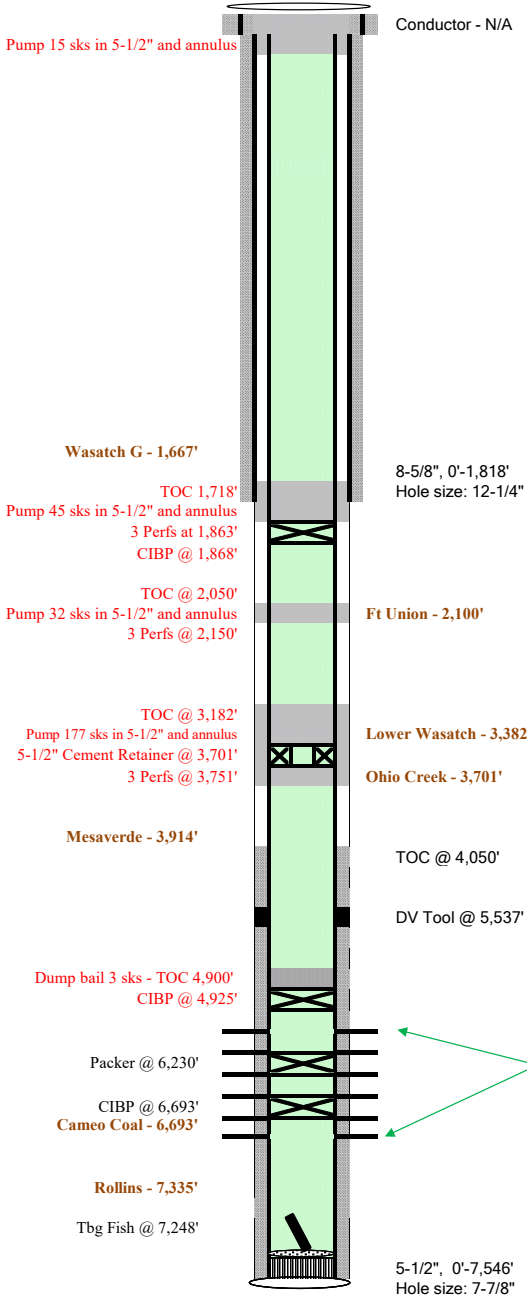
TOC - 5,537' 1st Stg, 4,050' 2nd Stg

### Production Intervals

	Top Perf	Bottom Perf
Mesaverde/Cameo	4,952'	7,220'

Prepared By: Richard Miller  
Office phone: 832-726-1173

Revision Date:  
5/4/2021



Well Name	Hoagland GV 79-35		
Location	SESE 35 6S95W 6		
Field	Parachute		
County	Garfield		
API	05-045-06686		
Elevation_KB	5,299' (13')		
Elevation_GL	5,286'		
Footages	600 FSL 1150 FEL		
<b><u>Spud 7/6/1990</u></b>			
Surf Casing	0-1,818'	8-5/8"	24# J-55
Prod Casing	0-7,546'	5-1/2"	15.5/17# N-80/K-55
DV Tool	5,537'		
Tubing	Landed at 6,204.92'	2-3/8"	4.7# J-55 EUE
	198 Joints		
<b><u>P&amp;A Calculations</u></b>			
5-1/2" OD 15.5# csg in 7-7/8" Hole, 0.0309 bbl/ft, 0.1733 ft³/ft			
5-1/2" OD 15.5# csg in 8-5/8" 24# csg, 0.0343 bbl/ft, 0.1926 ft³/ft			
5-1/2" OD 15.5# csg capacity, 0.0238 bbl/ft, 0.1336 ft³/ft			
15.8# Class G Neat, 1.15 ft³/sks, 4,564 gal/sack water mix			
<b><u>Cement Plug #1 - Production Zone (4,900'-4,925')</u></b>			
3 sks, 0.6 bbls, 5-1/2" 15.5# csg, 25-ft (Inside 5-1/2" casing above CIBP set at 4,925')			
<b><u>Cement Plug #2 - Lower Wasatch/Ohio Creek (3,182'- 3,751')</u></b>			
111 sks, 22.9 bbls, 5-1/2" OD csg in 7-7/8" Hole, 569-ft, 30% excess			
6 sks, 1.2 bbls, 5-1/2" 15.5# csg, 50-ft Below Cement Retainer			
60 sks, 12.4 bbls, 5-1/2" 15.5# csg, 519-ft Above Cement Retainer			
<b><u>Cement Plug #3 - Ft Union (2,050' - 2,150')</u></b>			
20 sks, 4.0 bbls, 5-1/2" OD csg in 7-7/8" Hole, 100-ft, 30% excess			
12 sks, 2.4 bbls, 5-1/2" 15.5# csg, 100-ft			
<b><u>Cement Plug #4 - Surface Casing Shoe (1,718' - 1,868')</u></b>			
10 sks, 2.0 bbls, 5-1/2" OD csg in 7-7/8" Hole, 50-ft, 30% excess			
17 sks, 3.5 bbls, 5-1/2" OD csg in 8-5/8" 24# csg, 100-ft			
18 sks, 2.8 bbls, 5-1/2" 15.5# csg, 150-ft			
<b><u>Cement Plug #5 - Top Out (0' - 50')</u></b>			
6 sks, 1.2 bbls, 5-1/2" 15.5# csg, 50-ft			
9 sks, 1.8 bbls, 5-1/2" OD csg in 8-5/8" 24# csg, 50-ft			
<b><u>Total Cement</u></b>			
54.8 Total bbls, 272 sacks - 15.8# Class G Neat, 1.15 ft³/sks, 4,564 gal/sack water mix			
<b><u>TOC - Bond Log</u></b>			
5,537' 1st Stg, 4,050' 2nd Stg			
<b><u>Production Intervals</u></b>			
	<b><u>Top Perf</u></b>	<b><u>Bottom Perf</u></b>	
Mesaverde/Cameo	4,952'	7,220'	
Prepared By: Richard Miller			
Office phone: 832-726-1173			
Revision Date: 5/4/2021			