

Well Name **FEDERAL #RWF 433-17**
 Location **NWSE 17 6S94W 6**
 Field **Rulison**
 County **Garfield**
 API **05-045-11467**
 Elevation_KB **24'**
 Elevation_GL **5,680 ft**
 Footages **1,742 FSL 1,867 FEL**

Spud 7/12/2006

Surf Casing	0'-1,136'	9-5/8"	32.3#
Prod Casing	0-8,474'	4-1/2"	11.6#
Tubing	Landed at 8,033'	2-3/8"	4.7#

TOC - 3,600-ft

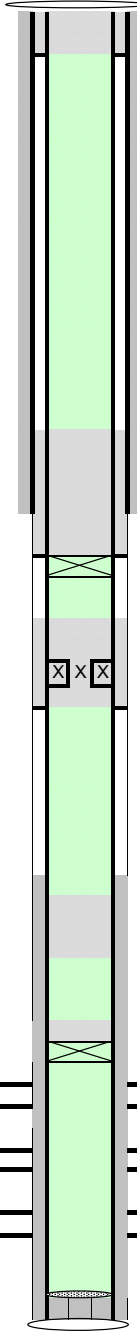
Completed Intervals

	<u>Top Perf</u>	<u>Bottom Perf</u>
Mesaverde III	6,438'	6,733'
Mesaverde II	6,800'	7,053'
Mesaverde I	7,118'	7,305'
Cameo	7,405'	7,661'
Lower Cameo	7,848'	8,156'

Prepared By: Jonathan Humphreys
 Phone: 573-466-0068

Revision Date:
 2/28/2023

Cmt inside/outside 4-1/2"
 Prod Csg f/ 50'-Surface
 Perf 3 holes @ 50'



Cmt inside/outside 4-1/2"
 Prod Csg f/ 1,036-1,186'
 Perf 3 holes @ 1,186'
 CIBP set @ 1,191'

Cmt inside/outside 4-1/2"
 Prod Csg f/ 2,132-2,280'
 Cmt Retainer set @ 2,232'
 Perf 3 holes @ 2,282'
 (Wasatch G Plug)

Cmt inside 4-1/2"
 Prod Csg f/ 3,744-4,614'
 (L. Wasatch Plug)

Dump bail 2 sks cmt
 CIBP set @ 6,388'

9-5/8", 0'-1,136'
 Hole size: 13-1/2"

TOC @ 3,600'

4-1/2", 0'-8,649'
 Hole size: 7-7/8"

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Surf Casing	0'-1,136'	9-5/8"	32.3#
Prod Casing	0-8,474'	4-1/2"	11.6#

P&A Calculations

4-1/2" OD 11.6# csg in 7-7/8" Hole, 0.0406 bbl/ft, 0.2278 ft³/ft
 4-1/2" OD 11.6# csg in 9-5/8" 32.3# csg, 0.0544 bbl/ft, 0.3055 ft³/ft
 4-1/2" OD 11.6# csg capacity, 0.0155 bbl/ft, 0.0872 ft³/ft
 9-5/8" OD 24# csg capacity, .0787 bbl/ft, .4418 ft³/ft
 15.8# Class G Neat, 1.15 ft³/sks, 4.564 gal/sack water mix
Cement Plug #1 - L. Wasatch (3,744-4,614')
 66 sks, 7.2 bbls, 4-1/2" 11.6# csg, 870-ft
Cement Plug #2 - Wasatch G (2,132-2,282')
 39 sks, 4.2 bbls, 4-1/2" OD csg in 7-7/8" hole, 150-ft
 12 sks, 1.2 bbls, 4-1/2" 11.6# csg, 150-ft
Cement Plug #3 - Surface Casing Shoe (1,036-1,186') Includes 30% excess for open hole
 13 sks, 1.4 bbls, 4-1/2" OD csg in 7-7/8" Hole, 50-ft
 27 sks, 2.9 bbls, 4-1/2" OD csg in 9-5/8" 32.3# csg, 100-ft
 11 sks, 1.2 bbls, 4-1/2" 11.6# csg, 150-ft Includes 30% excess for open hole
Cement Plug #4 - Top Out (0 - 50')
 13 sks, 1.4 bbls, 4-1/2" OD csg in 9-5/8" 32.3# csg, 50-ft
 4 sks, .4 bbls, 4-1/2" 11.6# csg, 50-ft
Total Cement
 19.9 Total bbls, 185 sacks - 15.8# Class G Neat, 1.15 ft³/sks, 4.564 gal/sack water mix

TOC - 3,600-ft

Formation Depths

Top G Sand	2,171'
L. Wasatch	3,944'
Ohio Creek	4,614'
U. Mesa Verde	5,274'

Completed Intervals

	Top Perf	Bottom Perf
Mesaverde III	6,438'	6,733'
Mesaverde II	6,800'	7,053'
Mesaverde I	7,118'	7,305'
Cameo	7,405'	7,661'
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Exploration and Production Well P&A Procedure

Wellname **FEDERAL #RWF 433-17**
Location **NWSE 17 6S94W 6**
Field **Rulison**
County **Garfield**
API **05-045-11467**

Prepared By: Jonathan Humphreys
Phone: 573-466-0068

Revision Date:
2/28/2023

ELEV 5,680 ft
Footages 1,742 FSL 1,867 FEL

Casing:

9-5/8" 32.3# @ 1,136'
4-1/2", 11.6# @ 8,474'

Current Top of Cement: 3,600-ft

Purpose: Plug and abandon

Cement Specs: 15.8# Class G, 1.15 ft³/sks, 4.564 gal/sack water mix

Proposed Procedure

- 1 Notify COGCC via Form 42, 48 hrs prior to start of activity. Notify BLM
- 2 POOH tubing string
- 3 RIH w/ WL set CIBP @ 6,388' in 4-1/2" csg (top perf @ 6,438', TOC @ 3,600')
- 4 Dump bail 2 sks of cmt on top of CIBP @ 6,388' in 4-1/2" casing.
- 5 RIH w/ pkr and determine exact depth of production csg leak (echo-meter indicates @ 1,092')
- 6 Pressure test CIBP and production csg below leak to 500 psi for 15 minutes. Notify COGCC & BLM if test fails.
- 7 RIH to 3,744', pump 66 sks cmt, cementing inside of 4-1/2" production csg from 3,744-4,614' (L. Wasatch plug)
- 8 Shoot 3 holes in 4-1/2" casing @ 2,282'
- 9 RIH set cmt retainer @ 2,232' and establish circulation down production csg and up surface csg
- 10 Pump 43 sks cmt, cementing 4-1/2" production csg annulus from 2,132-2,282' (Wasatch G plug)
- 11 PU out of stringer and pump remaining 8 sks cmt, cementing inside of 4-1/2" csg from 2,132-2,232'
- 12 RIH w/ WL set CIBP @ 1,191' in 4-1/2" csg (55' below surface csg shoe)
- 13 Shoot 3 holes in 4-1/2" casing @ 1,186'
- 14 RIH w/ tbg, tag CIBP, and establish circulation down production csg and up surface csg
- 15 Pump 51 sks cmt, cementing 4-1/2" production csg and annulus from 1,036-1,186' (Surface Csg Shoe plug)
- 16 Shoot 3 holes in 4-1/2" casing @ 50' and establish circulation down production csg and up surface csg
- 17 Pump 17 sks cmt, cementing 4-1/2" production csg and annulus from surface-50' (Top out plug)
- 18 Submit wireline and cement field tickets to engineer
- 19 Monitor well for 5 days to ensure successful plugging
- 20 Cut off wellhead, top out cement if necessary
- 21 Weld a steel plate dryhole marker (Above Ground) with a weep hole on top of casing (See Details Below)
- 22 Submit subsequent Form 6 to COGCC
- 23 Backfill cellar
- 24 Properly abandon flowline as required per COGCC Rule 1105
- 25 File electronic Form 42 after flowline abandonment is complete

Dryhole Marker Details

1. Operator: TEP Rocky Mountain LLC
2. Well Name and Number: FEDERAL #RWF 433-17
3. Surveyed Location: NWSE 17 6S94W 6
4. API Number: 05-045-11467