

**Federal RWF 43-9 Well Pad,  
RWF 311-15 Frac Pad and RWF 513-10 Tank Pad  
Plan of Development Summary  
June 18, 2020**

**INTRODUCTION**

TEP Rocky Mount LLC (“TEP”) is proposing to drill complete and produced fourteen (14) new directional wells from the proposed Federal RWF 43-9 pad location on Federal surface in Section 9 of Township 6 South, Range 94 West, 6<sup>th</sup> P.M. All fourteen (14) proposed wells would be directionally drilled into Federal Lease COC 062160 and COC 027821.

COGCC Location ID: To Be Determined

Proposed Well Count: Fourteen (14) Total

Eleven (11) – Federal Lease COC 062160

Three (3) – Federal Lease COC 027821

Surface Ownership: Federal

Mineral Ownership: Federal

Big Game Winter Range Timing Limitation: December 1 – April 30

**SITE ACCESS & CONSTRUCTION**

A new access road (approx. 6,630’) will be constructed through Federal property from the RWF 513-10 pad to the proposed RWF 43-9 pad. The access road will be generally constructed with a driving surface approximately twenty-feet (20’) in width. Some sections of the access road will be wider to account for vehicle turning radius and other areas may be as narrow as sixteen-feet (16’) in width to minimize surface disturbance in areas with steeper, more visible terrain. The road will also be constructed with two- and one-half foot wide bar ditches on the inside (cut side) of the access road. The access road between station 56+00 and 60+00 will be constructed with imported road base materials. Culverts will be installed at key points along the access road as shown on the Road Plan & Profile. Additional culvert installation locations may be identified during road construction. The road will be surfaced with gravel or another road surfacing material approved by the Authorized Officer. See Access Road Plan & Profile for details.

The existing access roads to the RWF 513-10 pad will be utilized to access the RWF 43-9 pad. The existing access road will be evaluated during construction, and may undergo minor road maintenance (i.e. spot graveling, stormwater) if necessary.

**PRODUCTION EQUIPMENT**

Separators (3 Quads/1 Double/2 Low Pressure) will be installed along the west side of the pad within a 90’ x 30’ area. Blowdown tanks (2-80bbl) will be installed within a 28.5’ x 20’ steel lined containment structure 75’ from the proposed production equipment area after drilling is complete. Condensate production will be transported via pipeline to the tank battery on the RWF 513-10 pad. Water will be transported via pipeline to the Clough 18 pad where it will tie-into TEP’s existing water pipeline system and transport to the existing tank battery on the Golding 4 Pad. One (1) emissions control device (“ECD”) will be installed on pad adjacent to the proposed separators.

Four (4) additional 500bbl condensate tanks will be installed within the existing containment structure on the RWF 513-10 pad and two (2) ECDs will be placed within the existing pipeline corridor along the existing access road.

## PIPELINE

One (1) eight-inch (8") steel natural gas pipeline (approx. 5,141') will be installed following the proposed access road from the separators on the RWF 43-9 pad to the existing eight-inch (8") gas pipeline on the RWF 513-10 pad. One (1) four-inch (4") FlexPipe water pipeline (approx. 10,094') will be installed from the separators on the RWF 43-9 pad to the existing six-inch (6") water line at the Clough 18 pad. Two (2) two-inch (2") flexpipe condensate pipelines (approx. 5,058' each) will be installed from the separators on the RWF 43-9 pad to the tank battery on the RWF 513-10 pad. The proposed gas, water, and condensate pipelines will be collocated within the same trench with approximately eighteen-inch (18") separation and forty-eight (48") depth of cover. The pipelines will be installed following the proposed access road except for a short section following a ridge line between STA 31+50 and STA 52+50.

On location pipelines would be installed at the RWF 43-9 pad to support production operations. Fourteen (14) two-inch (2") steel flowlines and one (1) two-inch (2") steel fuel gas line will be installed between the separators and the wellheads. One (1) two-inch (2") flexpipe water pipeline will be installed between the separators and the blowdown tanks. One (1) two-inch (2") flexpipe vent line will be installed between the water pipeline and the blowdown tank.

Additionally, one (1) one-inch (1") supply gas line and one (1) four-inch (4") surface process piping line will be installed between the proposed tanks and the ECDs on the RWF 513-10 pad.

## DRILL CUTTINGS MANAGEMENT

Drill cuttings generated during drilling operations on the RWF 43-9 pad will be managed within a drilling pit to be constructed along the north side of the pad. Drill cuttings are estimated at 400 cubic yards per well, with a total drill cuttings volume of 6,000 cubic yards.

## COMPLETIONS OPERATIONS

Completions operations will be performed remotely from the existing RWF 311-15 frac pad. Water will be supplied to the RWF 311-15 pad from the Clough Pit (Pit 44-16-694). Water will be pumped through the existing 10" buried HDPE Poly line to the valve can south of the Clough 20 pad. One (1) temporary surface water supply pipeline (1-10" HDPE Poly; approx. 393') will be installed from the can to the Clough 20 pad. A booster pump will be setup on the Clough 20 Pad to transfer water from the Clough 20 pad to the RWF 311-15 pad. One (1) existing temporary surface water supply pipeline (1-10" Poly; approx. 4,164') will be used to deliver water from Clough 20 pad to the RWF 311-15 pad. Temporary surface frac lines (5-4.5" Steel; approx. 8,462') will be installed between the RWF 311-15 pad and the RWF 43-9 pad. The frac lines will generally follow existing and proposed access roads or pipeline corridors except for one (1) section which will be install cross county between the RWF 311-15 and RWF 513-10 pad.

## SITE RECLAMATION

Within six (6) months following completions of planned operations on the RWF 43-9 pad or during the next growing season, TEP will begin interim reclamation of the pad location. Please see the interim reclamation plat for specifics on interim reclamation activities.

## VISUAL ASSESSEMENT

A visual assessment for the project was completed in May 2020 to determine visual impacts associated with the implementation of the project components. The assessment found that "implementation of the proposed RWF 43-

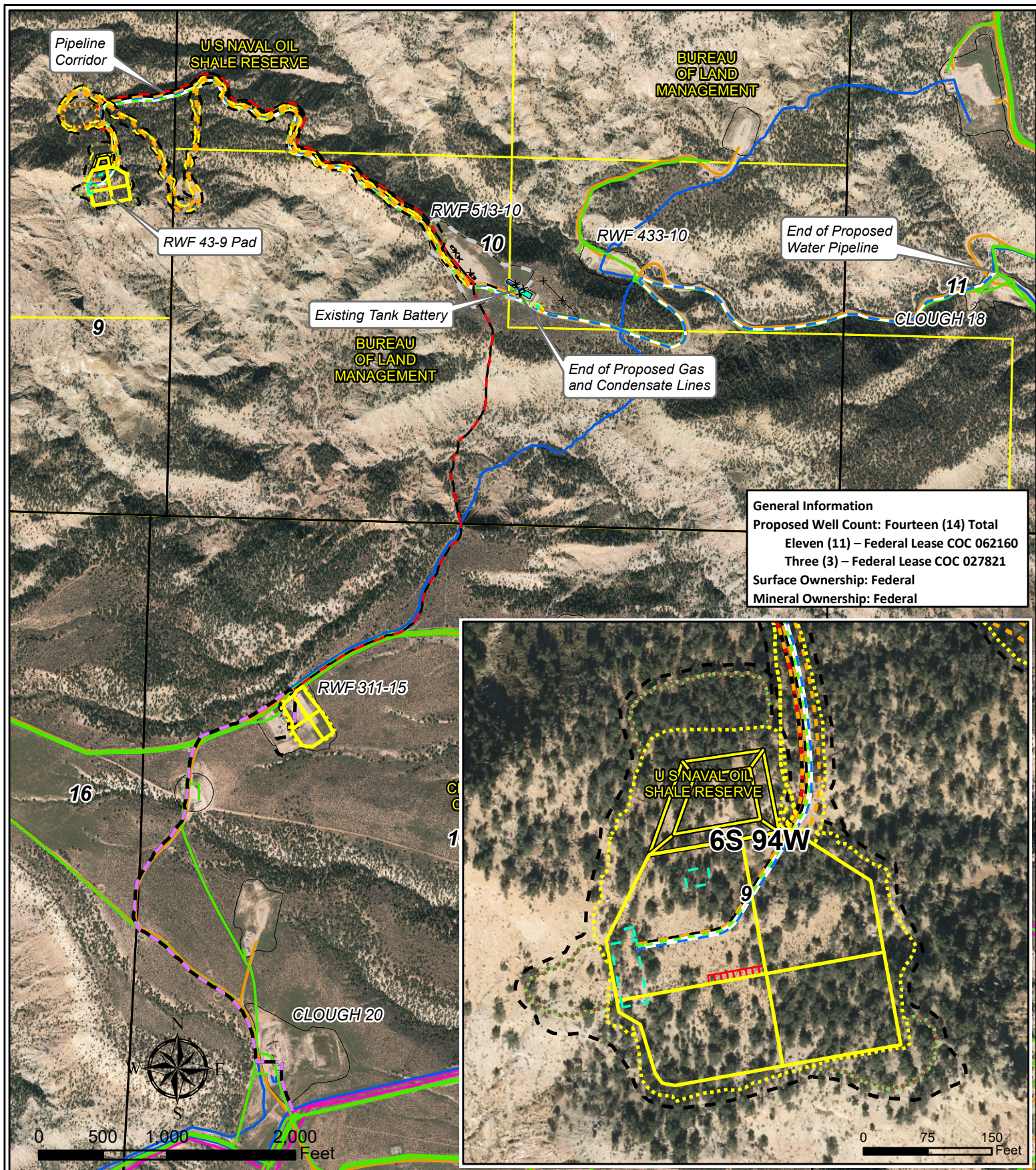
9 and associated access road would have no significant impacts to visual resources or degrade the viewshed below Class II standards”. The assessment also recommended four (4) mitigation measures to “reduce the degree of contrast associated with implementation of the proposed action”. Please see the attached Visual Assessment for more specific details. The following outlines a summary of those mitigation measures:

1. Paint operational equipment a non-reflective dark green color.
2. Locate production equipment away from fill slope near the interior of the pad or along the cut slope.
3. Install double net biodegradable Erosion Control Blankets (ECBs) infilled with a bonded fiber matrix product or flexible growth medium for effective erosion control and establishment of vegetation following construction activities. Hydraulically apply colorant to exposed cut and fill slopes to blend exposed slopes with surrounding environment.
4. Perform annual monitoring to ensure to ensure compliance with viewshed stipulations. Additional application of colorant may be required along with other mitigation measure if the objectives of the I-70 Viewshed stipulations are not met.

#### CPW CONSULTATION

As required under the Roan Plateau RMP, TEP initially consulted with Colorado Parks & Wildlife (“CPW”) on the proposed RWF 31-9 pad on August 24, 2018. Due to the location of the pad within the Anvil Points Area of Critical Environmental Concern (“ACEC”) area, CPW “did not feel this location was compatible with the intent of the ACEC...and that wildlife impacts could not be adequately avoided or mitigated.” TEP analyzed potential alternative pad locations and ultimately relocated the pad further south to the current location called the RWF 43-9 pad, which is located along the perimeter of the ACEC. TEP consulted with CPW again on October 25, 2018 to review the new pad location and project components. On November 6, 2018, CPW sent a letter to BLM providing support for the proposed RWF 43-9 pad detailed in this Surface Use Plan of Operations. Please see the letter from CPW dated November 6, 2018 for additional details.





**General Information**  
 Proposed Well Count: Fourteen (14) Total  
 Eleven (11) – Federal Lease COC 062160  
 Three (3) – Federal Lease COC 027821  
 Surface Ownership: Federal  
 Mineral Ownership: Federal

- Legend**
- Existing Road
  - Proposed Cellar
  - Proposed Pad Edge
  - Proposed Drilling Pit
  - Proposed Daylight Line
  - Proposed Limit of Disturbance
  - Proposed Production Equipment
  - Proposed Road
  - Proposed Excess Stockpile
  - Proposed Topsoil Stockpile
  - Surface Frac Lines (5-4.5")
  - Surface Water Line (1-10")
  - Proposed Gas Pipeline (1-8")
  - Proposed Condensate Lines (2-2")
  - Proposed Water Pipeline (1-4")
  - Existing Gas Pipeline
  - Existing Water Pipeline
  - Williams Midstream
  - Existing Pad
  - Parcel Ownership

**TEP Rocky Mountain LLC**

**RWF 43-9 Pad  
 Plan of Development Map  
 T6S R94W, Section 9**

**June 30, 2020**

**TERRA**  
 ENERGY PARTNERS