



Proposed Valve Set & Water Valve Can

Geologist Information
 General: New Location, 20 new wells
 Ownership: Fed Surface/Fed Minerals
 SUA Status: N/A
 Spacing Units: Unspaced - COC50944
 Adjacent Owners: BLM, Youberg

Plan of Development
 Access: New access to be built from the existing RU 44-7 access to the RU 23-17 pad. Access road will be approximately 1.07 miles in length.
 Drilling: Buy-back meter will be moved to the RU 44-7 pad to supply fuel gas for rig. Will lay temporary surface line (2 3/8" tubing) from buy-back meter to the RU 23-17 pad, unless new oil line can be used.
 Cuttings: Cuttings will be managed in a cuttings trench along the south side of the pad.
 SIMOPS: Yes
 Completions: Completions will frac from the RU 44-7 pad. Water will be supplied to the RU 44-7 pad via existing water infrastructure. 3-4.5" temporary surface frac lines (5631' ea.) will be installed from the RU 44-7 pad to the RU 23-17 pad following proposed roads or ROWs.
 Flowback: RU 44-7 pad.
 Production: Production will need 90' x 80' for units (5 quads/1 meter) to be located along the northwest side of the pad south of the proposed access road. A temporary blowdown tank will be located on pad during drilling operations. A permanent blow down tank (1-300bbl tank - 30' x 30' area) will be set 75' southwest of the proposed wells and 75' southeast of the proposed units. Water and oil will be piped off pad to the tank battery on the RU 42-7 pad. The existing tanks (4 water and 4 oil) will be converted to all water tanks. An additional 40' x 40' area will be needed on the RU 42-7 pad east of the existing tank batter for 4 new 500bbl oil tanks. Summit will install a meter north of the proposed separators.
 Pipeline: Summit will install an 8" line from the RU 23-17 pad down to the proposed 12" to be installed for the RU 31-17 pad. Will need 1-2" oil line and 1-6" produced water line (5631' ea.) from the RU 23-17 to the RU 44-7 pad. The produced water and oil lines will tie into existing infrastructure at the RU 44-7 pad. Lines will be installed in trench with Summit's 8" to the RU 44-7 pad.

- Legend**
- Proposed Road
 - Proposed Production Equipment Area
 - Proposed Daylight Line
 - Proposed Pad or Pit
 - Proposed Limit of Disturbance
 - Existing Road
 - Temporary Surface Frac Lines (3-4.5")
 - Proposed 2" Condensate Lines
 - Proposed 8" Gas Pipeline
 - Proposed 12" Gas Pipeline
 - Proposed 6" Produced Water Line
 - Existing Water Pipeline
 - Existing Gas Pipeline (Summit)
 - Existing Gas Pipeline
 - Parcel Ownership
 - Existing Pad

TEP Rocky Mountain LLC

RU 23-17 Plan of Development
 T7S R93W, Section 17

Date Prepared: August 2, 2017

