

**FEDERAL RG 11-13-298 PAD  
PLAN OF DEVELOPMENT  
TEP ROCKY MOUNTAIN LLC  
RIO BLANCO COUNTY, COLORADO**



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## INTRODUCTION

The Federal RG 11-13-298 pad is one (1) of two (2) oil and gas location included in the Ryan Gulch Phase 2 Oil and Gas Development Plan (“OGDP”). The Ryan Gulch Phase 2 OGDP includes the development of thirty-eight (38) new directional natural gas wells from one (1) existing oil and gas location (Federal 298-13-1 pad) and one (1) proposed Oil and Gas Location (Federal RG 11-13-298 pad). The Ryan Gulch Phase 2 OGDP is located on Federal surface administered by the Bureau of Land Management (“BLM”) within Section 11, 12, 13, 14, and 24 of Township 2 South, Range 98 West, 6<sup>th</sup> P.M. and Section 18 of Township 2 South, Range 97 West, 6<sup>th</sup> P.M. in Rio Blanco County, Colorado.

TEP Rocky Mountain LLC (“TEP”) is proposing to drill, complete, and operate twenty-two (22) directional natural gas wells from the proposed Federal RG 11-13-298 pad located on Federal surface administered by the BLM overlying Federal lease COC-0003453. The proposed oil and gas location will be located on resource / rangeland within Lot 4 (NW $\frac{1}{4}$ NW $\frac{1}{4}$ ) of Section 13, Township 2 South, Range 98 West, 6<sup>th</sup> P.M., within Rio Blanco County, Colorado. All twenty-two (22) proposed wells will be directionally drilled into three (3) Federal Leases including COC-0003453, COC 66586 and COC 60740. Please see **Table 1, Proposed Wells List**, for a list of the proposed wells on the Federal RG 11-13-298 pad.

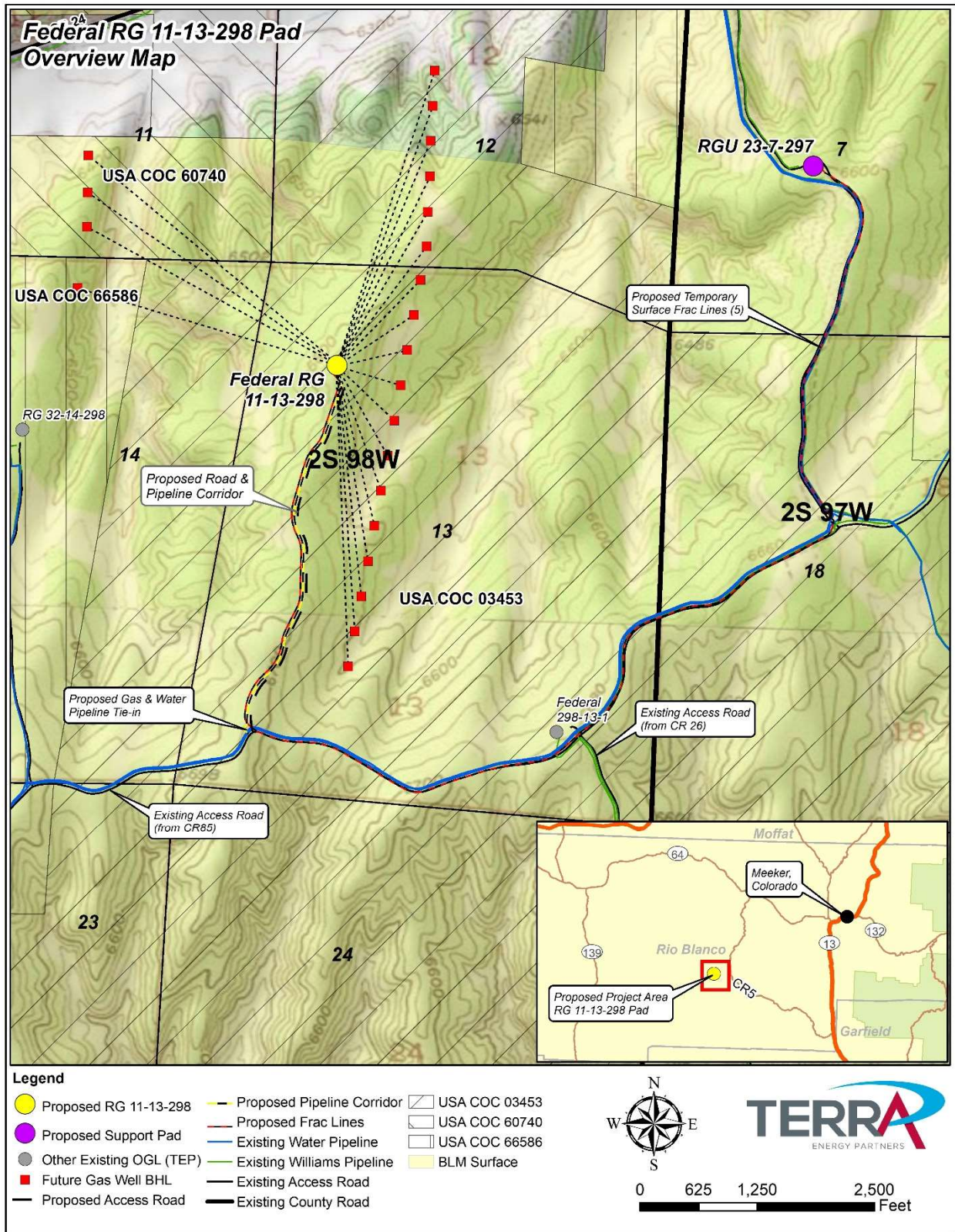
The Federal RG 11-13-298 pad will be a new pad, constructed to accommodate the development of twenty-two (22) new directional wells. The proposed oil and gas location will be accessed via an existing 1.86-mile access road from Rio Blanco County Road 26, including BLM 1019, and the construction of a new 0.75-mile access road. The existing and proposed access roads will be used during construction, drilling, completion, and production operations. The existing Federal RGU 23-7-297 pad (COGCC Loc ID# 316408) will be utilized as a remote frac support location for well stimulation operations during development of the twenty-two (22) proposed wells on the Federal RG 11-13-298 pad. The Federal RGU 23-7-297 pad is an existing oil and gas location that currently supports production operations of one (1) existing natural gas well. The Federal RGU 23-7-297 pad was reconstructed in 2020 to support remote well completion operations on the Federal RG 41-18-297 pad (COGCC Loc ID# 316591), and to support future drilling operations of fourteen (14) new natural gas wells beginning in the Fall of 2022. The Federal RGU 23-7-297 pad is located on Federal surface administered by BLM in Lots 15 (NE $\frac{1}{4}$ SW $\frac{1}{4}$ ) and 16 (NW $\frac{1}{4}$ SW $\frac{1}{4}$ ) of Section 7, Township 2 South, Range 97 West, 6<sup>th</sup> P.M. The Federal RGU 23-7-297 pad has been utilized for remote well completion operations in recent years and is proposed for use as a remote frac pad for both oil and gas locations within the Ryan Gulch Phase 2 OGDP.

To support production operations on the Federal RG 11-13-298 pad, Williams Midstream (“Bargath”) will install one (1) eight-inch (8”) steel natural gas pipeline (approx. 4,082 feet) from the proposed separators on the Federal RG 11-13-298 pad to the existing sixteen-inch (16”) natural gas pipeline south of the pad adjacent to BLM Road 1019. TEP will install one (1) six-inch (6”) Coreline or FlexSteel water pipeline (approx. 4,006 feet) from the separators on the Federal RG 11-13-298 pad to the proposed tie-in point with an existing six-inch (6”) water pipeline located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 13, Township 2 South, Range 98 West, 6<sup>th</sup> P.M., north of BLM road 1019. The proposed off-location pipelines will be installed within a sixty-foot (60’) pipeline Right-of-Way located on Federal surface paralleling the proposed access road.

Well completion operations associated with the proposed wells on the Federal RG 11-13-298 pad would be conducted via simultaneous operations (“SIMOPS”) from the existing Federal RGU 23-7-297 pad. Water would be transported to the Federal RGU 23-7-297 pad via existing water pipelines operated and maintained by TEP.



Figure 1. Federal RG 11-13-298 Project Overview Map



TEP would install five (5) four-and-one-half-inch (4.5”) steel temporary surface frac lines from the Federal RGU 23-7-297 pad to the Federal RG 11-13-298 pad to support remote frac and flowback operations. The temporary surface frac lines would be installed following the existing/proposed access roads and/or pipeline corridors. Recycled produced water would be pumped from TEP’s water management facilities to the Federal RGU 23-7-297 pad during completions operations. Flowback would be processed through four (4) phase separation equipment and transported via pipeline either to the Federal RGU 23-7-297 pad for recycle for future well completion operations, or transported to TEP’s water management facilities for processing, reuse, recycling, and / or disposal.

Construction activities for the Federal RG 11-13-298 pad are scheduled to begin September 2022 and are expected to take approximately ninety (90) days to complete. Drilling operations for the twenty-two (22) proposed directional wells would begin in September 2023. Since SIMOPS is planned for development of these wells, well completion operations would begin in November 2023. Drilling operations are expected to take approximately two-hundred-twenty-one (221) days and should be completed in April 2024. Well completion operations are expected to take approximately two-hundred-and-eighty-four (284) days and should be completed in August 2024. Reclamation of the Federal RG 11-13-298 pad would begin September 2024 and is expected to take approximately thirty (30) days to complete. Site reclamation may be delayed dependent on weather conditions and project scheduling. Development activities may be accelerated or delayed based on market conditions and company constraints.

**Table 1. Federal RG 11-13-298 Proposed Wells List**

Pad Name	Well Name	Status	API (#)	Land Type	Lease (#)	CA/Section
Federal RG 11-13-298 Pad	Federal RG 23-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 422-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 322-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 22-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 421-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 321-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 21-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 524-12-298	Proposed	--	FED	COC 0003453	Section 12
	Federal RG 424-12-298	Proposed	--	FED	COC 0003453	Section 12
	Federal RG 324-12-298	Proposed	--	FED	COC 0003453	Section 12
	Federal RG 24-12-298	Proposed	--	FED	COC 0003453	Section 12
	Federal RG 523-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 423-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 323-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 522-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 521-13-298	Proposed	--	FED	COC 0003453	Section 13
	Federal RG 331-14-298	Proposed	--	FED	COC 66586	Section 14
	Federal RG 434-11-298	Proposed	--	FED	COC 60740	Section 11
	Federal RG 334-11-298	Proposed	--	FED	COC 60740	Section 11
	Federal RG 34-11-298	Proposed	--	FED	COC 60740	Section 11
	Federal RG 523-12-298	Proposed	--	FED	COC 0003453	Section 12
	Federal RG 423-12-298	Proposed	--	FED	COC 0003453	Section 12

## EXISTING / PROPOSED SITE ACCESS

Existing roads, including private lease roads and public roads, would be utilized during construction, drilling, completions, and production operations of the twenty-two (22) proposed wells on the Federal RG

11-13-298 pad. The oil and gas location will be accessed via Rio Blanco County Road 26 and County Road 85. From the intersection with CR 26 and the existing access road, approximately 1.86-miles of existing access road will be utilized during development on the Federal RG 11-13-298 pad. The oil and gas location may also be accessed from CR 85 via BLM Road 1019. All existing access roads from existing public roads will be maintained by TEP, and other existing operators in the area, when applicable. Minor road maintenance will be performed along the existing lease roads prior to construction. Stormwater controls along the access roads will be evaluated during construction to ensure they are functioning properly. Additional controls may also be evaluated during construction with BLM and implemented, as necessary. There will be no new disturbance along existing access roads.

Construction of a new access road (approximately 3,936 feet) would be required for development of the proposed wells on the Federal RG 11-13-298 pad. The proposed access road will be constructed from BLM Road 1019 to the oil and gas location generally following an existing two-track. The entire length of the proposed access road will be located on Federal surface. The access road would consist of a twenty-five foot (25') wide permanent right-of-way, consisting of a fourteen foot (14') wide driving surface and five and one half feet (5.5') on either side for stormwater control measures. An additional fifty-five foot (55') wide temporary workspace for the associated cut and fill slopes. The access road has been designed with a road grade below eight percent (8%). Culverts and wing ditches will be installed periodically along the proposed access road to direct stormwater away from the access road. Culverts would be fitted with rock at the inlet and outlet of the culverts. Culvert installation will be further evaluated during construction to determine if additional culverts are needed. The access road will be surfaced with six-inches (6") of three-quarter inch (3/4") gravel or another surfacing material approved by the surface owner.

TEP would be responsible for periodic inspections and maintenance of the existing lease roads. TEP would conform to a schedule of preventative maintenance which, at a minimum, provides for the following measures on a biannual basis. Problem areas would be corrected as needed.

1. Road surface grading and application of surfacing materials, as needed.
2. Relief ditch, culvert, and cattle guard cleaning.
3. Erosion control measures for cut and fill slopes and all other disturbed areas.
4. Road closures during periods of excessive soil moisture to prevent rutting caused by vehicular traffic.
5. Road and slope stabilization measures as required.
6. All roads shall be maintained to the standards required for the construction of the road until final abandonment and rehabilitation takes place.

## **WELLSITE LAYOUT AND CONSTRUCTION**

### **Federal RG 11-13-298 Drill Pad**

The Federal RG 11-13-298 pad would be constructed to provide the necessary working surface to support safe and efficient working conditions for all TEP employees and contractors during each phase of development, including drilling, completion, and production operations. Prior to initial pad construction, TEP would have the proposed pad location, access road, and pipeline corridors staked for construction and will hold a pre-construction onsite with the excavation and stormwater contractors to review the proposed site construction design drawings and stormwater control measures.

TEP's storm water contractor will then install initial storm water control measures (i.e., wattles, straw bales, etc.) along the outer perimeter of the proposed disturbance boundary. TEP's construction contractor will then begin removal of existing vegetation within the disturbance footprint by hydro-axing or brush hogging

the trees or larger bushes within the project disturbance boundary. Stormwater control measures, such as sediment traps and diversion ditches will then be installed along the perimeter of the site prior to pad excavation.

Topsoil within the pad disturbance footprint will be stripped and stockpiled along the south side of the pad. The topsoil horizon will be stripped to a depth of six inches (6") minimum and will be segregated from all other subsurface materials for use during site reclamation. Wattles will be placed around the perimeter of the topsoil stockpile to prevent offsite migration of organic materials. Please see the Topsoil Protection Plan included as an attachment to the Form 2A for additional details on topsoil management.

Excavation of the pad would then commence and will be constructed based on the Construction Layout included as an attachment to the Form 2A. Perimeter berms and drive-over berms will be constructed around the fill side of the location and around the cuttings trench, as shown on the Construction Layout.

The proposed production equipment areas, and on-location flowlines will then be installed. Conductors may be installed during installation of production facilities if drilling operations are expected to commence within six (6) months of installation. Per COGCC Rule 406.e.(4), conductors for wells that have not been drilled within six (6) months of setting the conductor must be plugged per the guidelines outlined in the rule. The areas beneath the proposed rig footprint will be compacted to ensure stability of the rig during drilling operations. The pad working surface will be bladed level and graveled with six inches (6") of three-quarter inch (3/4") surfacing materials imported from one or more local gravel pits.

Any rocks or boulders exposed during excavation of the pad will be buried within the fill slope of the oil and gas location or utilized as riprap in stormwater control measures for this project. Utilization of rocks and boulders will be evaluated during construction of the site with the construction contractor.

The cut and fill slopes, excess stockpiles, and topsoil stockpiles will be hydro-mulched following completion of pad construction. This will be done to minimize the potential for site degradation during the initial drilling and well completion phase of the project.

#### Federal RGU 23-7-297 Remote Frac Pad

The existing Federal RGU 23-7-297 pad will be utilized to support remote well completion operations for the twenty-two (22) proposed directional wells on the Federal RG 11-13-298 pad. The existing working surface of the pad will be utilized for well completion operations. No pad expansion would be required for the proposed operations. Minor pad grading and storm water maintenance may be needed prior to commencement of completion operations. Please see the Preliminary Well Completion and Stimulation Layout Drawing attached to the Form 2A (Layout Drawings) for additional details.

#### Source of Construction Materials

Surface and subsoil materials within the proposed construction areas would be used as construction material. Additional gravel would be obtained from the gravel pits listed below.

**Table 2. Construction Material Source Table**

<i>Material Type</i>	<i>Location/Company Name</i>	<i>Street Address</i>	<i>City</i>	<i>State</i>	<i>Zip Code</i>	<i>Latitude</i>	<i>Longitude</i>	<i>Township</i>	<i>Range</i>	<i>Section</i>
Surface (Topsoil)	On Site Material	--	--	--	--	--	--	--	--	--
Subsurface	On Site Material	--	--	--	--	--	--	--	--	--
Gravel	United White River	41253 CR 5	Meeker	Colorado	81641	40.091583	-108.227879	2S	97W	36

## PROPOSED PRODUCTION FACILITIES

### Production Equipment

TEP will install wellhead telemetry and other wellhead specific equipment on the Federal RG 11-13-298 pad to support production of the twenty-two (22) proposed directional natural gas wells. TEP will also install production facilities, including separators, tanks, and Enclosed Combustion Devices (“ECD”), on the Federal RG 11-13-298 pad to effectively produce the proposed wells. Twenty-six (26) separators (5 quad separators, 1 double separator, 3 low pressure separator, and 1 vertical two-phase separator) would be installed along the south side of the pad within a one-hundred-twenty-foot (120’) long by thirty-foot (30’) wide area.

A new tank battery would be installed along the south side of the proposed oil and gas location including, six (6) five-hundred-barrel (500bbl) water tanks, four (4) five-hundred-barrel (500bbl) condensate tanks, and two (2) five-hundred-barrel (500bbl) gun-barrel tanks. All twelve (12) tanks would be installed within a ninety-five foot (95’) by thirty-eight foot (38’) lined steel secondary containment structure. The tank battery would be installed with a minimum of a seventy-five-foot (75’) setback from the proposed separators, wellheads, and ECD.

TEP will also install one (1) electric produced water pump and one (1) dual fuel generator adjacent to the proposed tank battery within a thirty-foot (30’) by twenty-foot (20’) area to pump produced water to the Mautz Ranch Multi-Well Pit (COGCC Loc ID: 422672) during long-term production operations. Three (3) ECDs will be installed at the southern end of the location, just east of the access road, to control emissions from the proposed tank battery. One (1) ECD will be installed adjacent to the proposed separators to manage emissions from controls on the separators. One (1) air compressor and dual fuel generator pack will be installed adjacent to the separators for operation of instrument air supply. Chemical tanks and pumps will also be installed near the wellhead to provide automated chemical treatments during production operations. A temporary buy-back meter will be installed on location during drilling operations to supply fuel gas to the drilling rig.

**Table 4. Production Equipment Details**

Pad Name	Equipment Description	Equipment Count	Capacity	Status	COGCC Class
RG 11-13-298 Pad	Quad Separators	5	NA	Proposed	Major Equipment
	Double Separators	1	NA	Proposed	Major Equipment
	Low Pressure Separator	3	NA	Proposed	Major Equipment
	Vertical Two-Phase Separator	1	NA	Proposed	Major Equipment
	Produced Water Tanks	6	500bbl	Proposed	Major Equipment
	Condensate Tanks	4	500bbl	Proposed	Major Equipment
	Gun Barrel Tanks	2	500bbl	Proposed	Other Permanent Equip.
	Enclosed Combustion Devices	4	NA	Proposed	Major Equipment
	Produced Water Transfer Pumps	1	NA	Proposed	Other Permanent Equipment
	Dual Fuel Generator	1	NA	Proposed	Other Permanent Equipment
	Chemical Pumps	5	NA	Proposed	Other Permanent Equip.
	Chemical Tank	4	500gal	Proposed	Other Permanent Equip.
	Chemical Tank	1	135gal	Proposed	Other Permanent Equip.
	Air Compressor / Dual Fuel Gen	1	NA	Proposed	Other Permanent Equip.
	Temporary Buy-back Meter	1	NA	Proposed	Temporary Equipment

Please see **Table 4, Production Equipment Details**, for a list of the existing and proposed production facilities planned for use at this oil and gas location. Please see the Construction Layout and Facility Layout

Drawing included in the Layout Drawings attached to the Form 2A for the proposed configuration of facilities on this location.

### Electrical

TEP is currently working with White River Electric to evaluate the potential for providing electricity to the oil and gas location for powering the proposed produced water pump and other electrical equipment planned for use on this location. An agreement has not been reached regarding installation; however if an agreement is made, White River Electric will work with the surface owner (BLM) to acquire the necessary rights-of-ways for installation, operation, and maintenance of a powerline corridor to this location.

TEP would install one (1) two-inch (2") electrical conduit on the Federal RG 11-13-298 pad from the thermoelectric generator (TEG) at the proposed separators to the chemical skid which would be located near the proposed wells. The TEG would provide supplemental power to the chemical pump during well production.

## **PROPOSED PIPELINES**

### Permanent Pipelines

To support natural gas gathering for the proposed wells on the Federal RG 11-13-298 pad, Bargath will install one (1) eight-inch (8") steel natural gas pipeline (approximately 4,082 feet) from the proposed separators to the proposed tie-in point on the existing sixteen-inch (16") gas pipeline located adjacent to BLM Road 1019. The proposed natural gas pipeline will be installed adjacent to and paralleling the proposed access road. A new gas pipeline riser and valve set will be installed at the tie-in point with the existing sixteen-inch (16") gas pipeline. The proposed natural gas pipeline will be installed by a qualified construction contractor at the direction of Bargath.

TEP will install one (1) six-inch (6") Coreline or FlexSteel water pipeline (approx. 4,006 feet) from the proposed produced water pump on the Federal RG 11-13-298 pad to the proposed tie-in point with an existing six-inch (6") water pipeline located in the SW $\frac{1}{4}$ SW $\frac{1}{4}$  of Section 13, Township 2 South, Range 98 West, 6th P.M., north of BLM Road 1019. The proposed water pipeline will be installed adjacent to and paralleling the proposed access road and will be collocated with the proposed gas pipeline.

A sixty-foot (60') wide pipeline right-of-way will be constructed for installation of the proposed off-location produced water pipeline and the proposed natural gas pipeline. The pipeline right-of-way would consist of a thirty-five foot (35') wide permanent right-of-way and a twenty-five foot (25') temporary workspace running the length of the right-of-way. The produced water pipeline will be installed by a qualified construction contractor at the direction of TEP. The produced water pipelines will be buried with a minimum of a forty-eight-inch (48") depth of cover and will have a minimum twenty-four-inch (24") separation between the pipelines.

On the Federal RG 11-13-298 pad, TEP will install twenty-two (22) two-inch (2") coated steel wellhead flowlines (approx. 200 feet each) between the proposed wellheads and the proposed separators. To provide a fuel source for drilling operations, one (1) two-inch (2") coated steel fuel gas flowline (approx. 200 feet) will be installed from the temporary buy back meter near the proposed separators to a riser near the proposed wellheads. One (1) two-inch (2") coated steel produced water dump line (approx. 248 feet) will be installed from the proposed separators to the proposed gun barrel tanks. Three (3) two-inch (2") coated steel condensate line (approx. 315 feet each) will be installed from the proposed separators to the proposed



condensate tanks. One (1) two-inch (2") coated steel vent line (approx. 22 feet) will be installed from the proposed produced water line to the proposed produced water tanks. One (1) two-inch (2") coated steel blowdown/unload line (approx. 204 feet) will be installed from the proposed separators to the proposed produced water tanks. One (1) four-inch (4") aluminum pipeline (approx. 111 feet) will be installed from the proposed tank battery to the proposed ECDs. One (1) one-inch (1") steel gas supply flowline (approx. 110 feet) will be installed from the separators to the ECDs and one (1) one-inch (1") steel gas supply flowline (approx. 182 feet) will be installed from the separators to the tank burners located inside the proposed tank containment.

**Table 3. Federal RG 11-13-298 Proposed Pipeline Details**

Pad Name	Pipeline Description (COGCC Line Type)	Number of Lines (Status)	Dia. (in.)	Material	Fluid	Depth	Bedding Material	Length (ft.)	ROW Width (ft.)
RG 11-13- 298 Pad	Gathering Line (Off-Location Flowline)	1	8	Steel	Gas	48" Min	Screened Subgrade	4,082	60
	Water Pipeline (Off-Location Flowline)	1	6	Coreline or FlexSteel	Water	48" Min	Screened Subgrade	4,006	60
	Wellhead Flowline (On-Location Flowline)	22	2	Coated Steel	Multi- Phase	48" Min	Screened Subgrade	±200	NA
	Condensate Dump Line (On-Location Flowline)	3	2	Coated Steel	CNDS	Surf.	Surf.	±315	NA
	Produced Water Dump Line (On-Location Flowline)	1	2	Coated Steel	CNDS	Surf.	Surf.	±248	NA
	Water Vent Line (On-Location Flowline)	1	2	Coated Steel	Water	Surf.	Surf.	±22	NA
	Blowdown Line (On-Location Flowline)	1	2	Coated Steel	Water	Surf.	Surf.	±204	NA
	ECD Piping (Process Piping)	1	4	Aluminum	Emissions	Surf.	Surf.	±111	NA
	Fuel Gas Pipeline - ECD (On-Location Flowline)	1	1	Coated Steel	Gas	Surf.	Surf.	±110	NA
	Fuel Gas Pipeline - Tanks Burners (On-Location Flowline)	1	1	Coated Steel	Gas	Surf.	Surf.	±182	NA
	Fuel Gas Pipeline - Rig Fuel (On-Location Flowline)	1	2	Coated Steel	Gas	48" Min	Screen Subgrade	±200	NA
	Temp. Surface Frac Lines (Off-Location Flowline)	5	4.5	Steel	Water	Surf.	NA	±15,972	50

### Temporary Pipelines

TEP will install five (5) four and one-half inch (4.5") temporary surface steel frac lines, approximately 15,972 feet in length each, from the Federal RG 23-7-297 pad to the Federal RG 11-13-298. The temporary surface frac lines will be installed following the existing Bargath pipeline corridor to the Federal RG 11-13-298 pad. The temporary surface frac lines will be used to support remote frac and flowback operations for the twenty-two (22) proposed directional wells on the Federal RG 11-13-298 pad. Water used for well completion operations will be pumped to the Federal RG 23-7-297 pad via two (2) existing six-inch (6") FlexSteel water pipelines. Pipeline routes are shown on Attachment A, Plan of Development Map. Please see Table 3, Proposed Pipeline Details, for additional information regarding the proposed temporary surface pipelines.

### **PROPOSED DRILLING OPERATIONS**

Drilling operations on the Federal RG 11-13-298 pad will be conducted in a manner that minimizes the potential impacts to public health, safety, the environment, and wildlife resources. A closed loop drilling system will be used during drilling of all proposed wells.

Cuttings generated during drilling operations on the Federal RG 11-13-298 pad will be managed within a cuttings trench along the north and east side of the oil and gas location. The drill cuttings trench will be

approximately three hundred and forty-seven feet (347') in length by one hundred and sixty feet (160') in width, and with a depth of approximately nineteen feet (19'). Drill cutting volumes are estimated at seven hundred and thirteen cubic yards (713cy) per well, with a total drill cuttings volume of fifteen thousand six hundred and eighty-six cubic yards (15,686cy). The cuttings trench has been designed with a maximum capacity of sixteen thousand and eighty cubic yards (16,080cy). The cuttings trench will be constructed with a two- and one-half foot (2.5') high perimeter berm to ensure containment of the drill cuttings. A wildlife escape ramp will be constructed along the south end of the cuttings trench to ensure wildlife can easily get out of the trench if entry occurs. Please see the Waste Management Plan attached to the Form 2A for more specific details regarding management of cuttings, including sampling protocols, as required by COGCC Rule 304.c.(11).

#### Source Water for Drilling Operations

Fresh water required for drilling operations (surface, intermediate, and production casing) and dust control will be transported by truck from the Mautz Ranch Fresh Water Pond. The Mautz Ranch Fresh Water Pond is located along Ryan Gulch on TEP property north of County Road 86. Water trucks will utilize existing county and lease roads and would follow existing truck routes where applicable. The intake on the water pumps at the source location will be fitted with a quarter-inch (0.25") mesh screen to prevent impact to aquatic wildlife. TEP estimates that approximately four thousand six hundred and thirty six barrels (4,636bbls) of fresh water will be used for drilling operations and dust control per well. Please see the Water Plan attached to the Form 2A for more specific details regarding water sources and source water characteristics as required per COGCC Rule 304.c.(18).

### **PROPOSED WELL COMPLETION OPERATIONS**

Well completion operations will be conducted remotely from the existing Federal RGU 23-7-297 pad. Recycled produced water will be transported to the Federal RGU 23-7-297 pad via two (2) existing six-inch (6") FlexSteel water pipelines. Temporary completions equipment including frac tanks, blenders (proppant only), sand silos (proppant only), and pumps will be temporarily staged on the Federal RGU 23-7-297 pad during well completion operations. TEP will install temporary surface frac lines from the Federal RGU 23-7-297 pad to the Federal RG 11-13-298 pad as described in the Temporary Pipeline section above.

Flowback operations will occur on the Federal RG 11-13-298 pad. Returned stimulation fluids generated during flowback operations will be processed through two (2) temporary four (4) phase separators to separate gas, water, condensate, and any solids. Water would be reused during future well completion operations on the Federal RG 11-13-298 pad or transported via pipelines to a TEP operated water management facility.

SIMOPS will be employed during development of the twenty-two (22) proposed directional wells, in which drilling and hydraulic fracturing will occur at the same time on the Federal RG 11-13-298 well pad. Well completion operations will begin once drilling is complete for the first group(s) of wells and the drilling rig has moved out from over top of these wells providing enough space for the well completion crew to safely work on the newly drilled wells.

The twenty-two (22) proposed directional wells on the Federal RG 11-13-298 pad are currently designed to be completed without the use of frac sand/proppant. TEP may elect to add frac sand to the stimulation design in the future following further reservoir and production analysis.

#### Federal RG 11-13-298 Pad Flowback Equipment

The following equipment will be temporarily installed on the Federal RG 11-13-298 pad and will be operated during flowback operations of the proposed wells:

1. Two (2) High Pressure Four Phase Separator
2. One (1) Low Pressure P-Tank
3. Three (3) Enclosed Water Tanks
4. One (1) Water Pump
5. One (1) Enclosed Combustion Device (Low Pressure)

#### Federal RGU 23-7-297 Temporary Frac Equipment

The following equipment will be temporarily installed on the Federal RGU 23-7-297 pad and operated during well completion operations for the proposed wells on the Federal RG 11-13-298:

1. Fourteen (14) Completions Pumps
2. Forty-six (46) Five Hundred Barrel (500bbl) Frac Tanks
3. One (1) Blender (only if proppant is used)
4. Three (3) Sand Silos (only if proppant is used)
5. One (1) Water Transfer Pump
6. One (1) Enclosed Combustion Device

#### Source Water for Completion Operations

Well completion operations will be conducted utilizing recycled produced water from other producing natural gas wells operated by TEP, which is stored and managed at TEP's existing and future water management facilities in Ryan Gulch. Recycled produced water will be transported from three (3) TEP owned and operated water management facilities including the proposed Pitcher's Mound Centralized E&P Waste Management Facility, the existing Mautz Ranch Multi-Well Pit, and the existing Northeast Ryan Gulch Water Recycling Facility. Water will be pumped from each facility to the Federal RGU 23-7-297 pad during well completion operations via existing pipeline infrastructure. Please see the Water Plan attached to the Form 2A for more specific details regarding water sources as required per COGCC Rule 304.c.(18).

#### Temporary Road Closures

TEP may temporarily close the existing lease road between the Federal RG 11-13-298 pad and the Federal RGU 23-7-297 pad to public traffic during certain well completions operations. A road closure sign will be placed at either end of the access road during periods where the road is temporary closed to public traffic.

### **PROJECT DISTURBANCE**

Development of the twenty-two (22) proposed wells on the Federal RG 11-13-298 pad involves the construction of a new oil and gas location, the construction of a new access road between BLM Road 1019 and the oil and gas location, installation of one (1) new natural gas pipeline and one (1) new produced water pipeline, and the utilization of other existing facilities (i.e. Federal RGU 23-7-297 pad) to support development activities.

The proposed 8.15-acre Federal RG 11-13-298 pad will be constructed for drilling and completions operations associated with the development of the twenty-two (22) proposed directional wells. The long-term disturbance attributed to the Federal RG 11-13-298 pad will be approximately 1.54-acres. All proposed surface disturbance for the Federal RG 11-13-298 pad will be located on Federal surface.

**Table 5. Proposed Disturbance of Project Components**

<i>Project Component</i>	<i>Surface Ownership</i>	<i>Number or Length (feet) (Federal/Private)</i>	<i>Existing Disturbance (acres) (Federal/Private)</i>	<i>Re-disturbance (acres) (Federal/Private)</i>	<i>New Disturbance (acres) (Federal/Private)</i>	<i>Total Short-Term Disturbance (acres) (Federal/Private)</i>	<i>Long Term Disturbance (acres) (Federal/Private)</i>
Well Pad(s)							
RG 11-13-298 Pad	Federal	1/0	0.34/0[0.34]	0/0[0]	7.81/0[7.81]	8.15/0[8.15]	1.54/0[1.54]
Subtotal		1/0	0.34/0[0.34]	0/0[0]	7.81/0[7.81]	8.15/0[8.15]	1.54/0[1.54]
Access Road							
Proposed Access Road	Federal	3,936/0[3,936]	1.22/0[1.22]	0.09/0[0.09]	3.48/0[3.48]	4.79/0[4.79]	1.29/0[1.29]
Subtotal		3,936/0[3,936]	1.22/0[1.22]	0.09/0[0.09]	3.48/0[3.48]	4.79/0[4.79]	1.29/0[1.29]
OGDP Total (RG 11-13-298 Only) <sup>1</sup>			1.56/0[1.56]	0.09/0[0.09]	11.29/0[11.29]	12.94/0[12.94]	2.83/0[2.83]
Pipelines							
Proposed 8-inch Gas Pipeline	Federal	4,082/0[4,082]	0.1/0[0.1]	0.05/0[0.05]	1.22/0[1.22]	1.38/0[1.38]	0/0[0]
Proposed 6-inch Water Pipeline		4,006/0[4,006]					
Subtotal <sup>2</sup>		4,082/0[4,082]	0.1/0[0.1]	0.05/0[0.05]	1.22/0[1.22]	1.38/0[1.38]	0/0[0]
Support Pad(s)							
RGU 23-7-297 Pad	Federal	1/0	5.69/0[5.69]	0/0[0]	0/0[0]	5.69/0[5.69]	1.91/0[1.91]
Subtotal		1/0	5.69/0[5.69]	0/0[0]	0/0[0]	5.69/0[5.69]	1.91/0[1.91]
Grand Total (Fed/Fee) <sup>1</sup>			7.36/0[7.36]	0.14/0[0.14]	12.52/0[12.52]	20.02/0[20.02]	4.74/0[4.74]

<sup>1</sup> Approximately 37% of the proposed project disturbance would be on land previously disturbed.

<sup>2</sup> Proposed gas and water pipelines will be collocated. Length represents total length of proposed pipeline ROW.

As described above, a new access road will be constructed from BLM Road 1019 to the proposed Federal RG 11-13-298 pad for site access. The total disturbance for the proposed road construction will be approximately 4.79-acres. The long-term disturbance attributed to the proposed access road would be 1.29-acres. All proposed surface disturbance for the proposed access road will be located on Federal surface.

The existing 5.69-acre Federal RGU 23-7-297 pad will be utilized to support remote well completion operations associated with the twenty-two (22) proposed directional wells on the Federal RG 11-13-298 pad. The Federal RGU 23-7-297 pad is currently built and will not be expanded from its current footprint. The long-term disturbance attributed to the pad would be 1.91-acres.

The proposed pipeline corridors associated with development of the proposed wells on the Federal RG 11-13-298 pad will create approximately 1.38-acres of surface disturbance. Of the 1.38-acres of surface disturbance, approximately 0.10-acres will be considered existing surface disturbance (i.e. existing road/two-track), approximately 0.05-acres will be considered re-disturbance (i.e. reclaimed rights-of-ways), and approximately 1.22-acres will be considered new disturbance. The proposed pipeline right-of-way and the proposed access road have been aligned to minimize overall pipeline disturbance. There would be no long-term disturbance attributed to the proposed pipeline corridor. All proposed surface disturbance associated with permanent pipeline installation will be located on Federal surface.

TEP will also need to install temporary surface pipelines between the proposed well pad and the Federal RGU 23-7-297 pad to support remote well completion operations. No ground disturbance activities are planned during installation or removal of the proposed temporary surface pipelines.

The total surface disturbance associated with development of the Federal RG 11-13-298 pad and associated facilities is approximately 20.02-acres, all of which will be located on Federal surface. Of the 20.02-acres of disturbance, 7.50-acres would be within areas of existing disturbance or areas disturbed by previous development activities. Approximately thirty-seven percent (37%) of the total disturbance acreage would be on lands previously disturbed. The long-term disturbance, or disturbance remaining after interim reclamation, would be approximately 4.74-acres.

Above, Table 5, Proposed Disturbance for Project Components, shows the proposed surface disturbance acreage for each component of the development plan.

## **PROPOSED SURFACE RECLAMATION**

Interim reclamation of the oil and gas location will begin within six (6) months following completion of drilling and well completion operations, or during the following growing season, depending on weather conditions and project scheduling. TEP has prepared a Reclamation Plan which describes the methods to be employed during interim reclamation of the Federal RG 11-13-298 pad and pipeline corridor following completion of construction, drilling, and/or well completion operations. This plan also describes the methods to be employed during final reclamation once all wells on the location have been plugged and abandoned. The reclamation plan also describes how reclamation monitoring will be conducted in compliance with Federal and State regulations. Please see the Reclamation Plan attached to the Form 2A for additional details.

Additionally, TEP has prepared a Topsoil Protection Plan which describes the process planned for segregating topsoil and organic matter during initial construction and replacing this material during interim reclamation to provide a suitable medium for re-establishment of desirable vegetation. Please see the Topsoil Protection Plan attached to the Form 2A for additional details. A Stormwater Management Plan has also been attached to the Form 2A providing details on how stormwater will be managed following reclamation of the oil and gas location.



## SURFACE OWNERSHIP

Implementation of the development plan described above would occur entirely on Federal surface administered by the BLM. TEP has consulted with BLM regarding the proposed development activities at the Federal RG 11-13-298 pad. TEP will submit Federal ROW grants and Applications for Permit to Drill (APDs) concurrently with the submission of the Ryan Gulch Phase 2 OGD. P.

**Table 6. Surface Ownership Information**

Project Components	Surface Owner	Fee Owner Name	Fee Owner Address	Fee Owner Phone
Proposed RG 11-13-298 Drill Pad Proposed Access Road Proposed Gas Pipeline Proposed Water Pipeline RGU 23-7-297 Pad (Frac Pad) Proposed Temp. Frac Pipelines Existing Access Road	Federal	Bureau of Land Management White River Field Office	220 E. Market St. Meeker, Colorado 81641	970-878-3800

### BLM Rights-of-Way (ROW)/Temporary Use Permit (TUP) Requirements:

The following ROW/TUPs will be required for the proposed activities located on BLM surface:

1. *BLM Right-of-Way Grant (MLA) for the Proposed Off-Lease Wells:* Grant would include the right to drill the four (4) Off-Lease wells from the proposed Federal RG 11-13-298 into two (2) adjacent Federal Leases (COC-66586 – 1 well / COC-60740 – 3 wells). The proposed Federal RG 11-13-298 pad will be located in Lot 4 (NW¼NW¼) of Section 13 in Township 2 South, Range 98 West, 6<sup>th</sup> P.M.
2. *BLM Right-of-Way Grant (FLPMA) for the Proposed Access to the Federal RG 11-13-298 Pad:* Grant would include the proposed access road from the BLM Road 1019 to the proposed oil and gas location. This access request is due to the four (4) Off-Lease wells proposed to be drilled from the Federal RG 11-13-298 pad.
3. *BLM Right-of-Way Grant (MLA) for the Proposed Eight-Inch (8") Natural Gas Pipeline:* Grant includes the installation, operation, maintenance, removal, and/or abandonment of the proposed eight-inch (8") natural gas pipeline to be installed on BLM property within the W½ of Section 13, Township 2 South, Range 98 West, 6<sup>th</sup> P.M. ROW grant will be acquired by Bargath.
4. *BLM Right-of-Way Grant (FLPMA) for the Proposed Six Inch (6") Water Pipeline:* Grant would include the installation, operation, maintenance, removal, and/or abandonment of the proposed six inch (6") produced water pipeline to be installed on BLM property within the W½ of Section 13, Township 2 South, Range 98 West, 6<sup>th</sup> P.M.
5. *BLM Right-of-Way Grant (TUP) for Proposed Frac Pipelines:* Grant would include the five (5) four and one half inch (4.5") steel temporary surface frac pipelines located on BLM property within Lot 15 (NE¼SW¼) and Lot 18 (SE¼SW¼) of Section 7, and E½NW¼, Lot 2 (SW¼NW¼), and Lot 3 (NW¼SW¼) of Section 18, Township 2 South, Range 97 West, 6<sup>th</sup> P.M., and Lot 9 (NE¼SE¼), Lot 11 (SW¼SE¼), Lot 12 (SE¼SE¼), SE ¼ SW ¼ , and E½E½ of Section 13, Township 2 South, Range 98 West, 6<sup>th</sup> P.M.
6. *BLM Right-of-Way Grant (TUP) for RGU 23-7-297 Frac Pad:* Existing grant (COC-80226) includes the use of the existing Federal RGU 23-7-297 pad, located within Lot 15 (NE¼SW¼) and Lot 16 (NW¼SW¼) of Section 7, Township 2 South, Range 97 West, 6<sup>th</sup> P.M., for temporary installation and operation of well completion equipment for the proposed wells on the Federal RG 11-13-298 pad.

### Private Landowner Surface Use Agreements (SUA)/ROWs:

Development of the proposed wells on the Federal RG 11-13-298 pad does not require any private landowner SUAs or ROW.

### **STIPULATIONS**

The proposed Federal RG 11-13-298 pad, access road, gas pipeline, water pipeline, existing Federal RGU 23-7-297 pad (frac pad), and temporary surface frac lines will be located on Federal surface overlying Federal minerals. The twenty-two (22) proposed wells planned for development from the Federal RG 11-13-298 pad will be directionally drilled into Federal Lease COC-0003453, COC-60740, and COC-66586. All the proposed wells are located outside of the Ryan Gulch Unit. The Federal RG 11-13-298 pad will be utilized for the development of off-lease minerals; therefore, a site ROW is required for the development of the oil and gas location. All required ROW grants will be subject to applicable stipulations described in the 2015 White River Field Office Approved Resource Management Plan Amendment for Oil and Gas Development. Applicable stipulations will be applied to the approved Application for Permits to Drill and Right-of-Ways associated with this development. TEP will adhere to all Conditions of Approval and Stipulations issued by BLM.

Big Game Winter Range Timing Limitation: February 1 – March 30 Annually; A Big Game Winter Range Timing Limitation exception request will be required prior to winter operations.

### **RESOURCE SURVEYS**

Resource surveys are required for all components of the Federal RG 11-13-298 development plan. The following surveys have been completed by a BLM approved contractor and will be considered as part of the BLM's environmental analysis:

1. Special Status Species Plant Survey: Completed 2021
2. Noxious Weed Survey: Completed 2021
3. Wildlife Survey: Completed 2021
4. Cultural Survey: Completed 2021
5. Wetlands Survey: Completed 2021

### **COGCC OIL AND GAS LOCATION ASSESSEMENT REVIEW**

#### Local Government Siting Disposition (Rule 304.b.(1))

The proposed Federal RG 11-13-298 Pad is located in Lot 4 of Section 13, Township 2 South, Range 98 West, 6th P.M. on public lands administered by BLM, in Rio Blanco County, Colorado. TEP contacted Rio Blanco County, the Relevant Local Government with jurisdiction over the siting of oil and gas locations within the county and has determined that Rio Blanco County is the Relevant Local Government with land use authority over the siting of this oil and gas location. As described in Article 3, Section 3-202 of the Rio Blanco County Land Use Code, "Oil and Gas Operations – No Significant Impact" on lands zoned as Agricultural would require an Administrative Review by Rio Blanco County. Per Article 9, Section 9-106 of the Land Use Regulations, TEP is required to submit a Well Pad Special Use / Building Permit ("SUBP") for approval of the Federal RG 11-13-298 pad. TEP is required to submit a Pipeline Special Use / Building Permit ("SUBPP") for approval of the proposed water pipeline. Additionally, Bargath is required to submit a SUBPP for the proposed natural gas pipeline. Proposed water and gas pipelines greater in length than 2,000 feet require the submittal of a Pipeline Special Use / Building Permit ("SUBPP"). TEP will submit the required Rio Blanco County Permits concurrently with submittal of the Ryan Gulch Phase 2 OGD and associated Form 2As.

The Local Government Designee for Rio Blanco County is Edward Smercina. The contact information is listed below.

**Table 6. Local Government Designee Contact Information**

Relevant Local Government	Zoning	LGD	Phone	Email
Rio Blanco County, Colorado	Agriculture	Edward Smercina	(970) 878-9586	edward.smercina@rbc.us

*Alternative Location Analysis (Rule 304.b.(2))*

As described under Rule 304.b.(2).A, an Alternative Location Analysis (“ALA”) is only required for an Oil and Gas Location that “meets any of the criteria listed in Rule 304.b.(2).B.

1. Working Pad Surface is within 2000 feet of Residential Building Unit: No
2. Working Pad Surface is within 2000 feet of HOBUs: No
3. Working Pad Surface is within 2000 feet of School Facility: No
4. Working Pad Surface is within 2000 feet of Child Care Center: No
5. Working Pad Surface is within 1500 feet of DOAA: No
6. Working Pad Surface is within 2000 feet of Municipal or County Boundary: No
7. Working Pad Surface is within a Floodplain: No
8. Working Pad Surface is within 2000 feet of Residential Building Unit: No
9. Oil and Gas Location is within a Surface Water Supply Area: No
10. Oil and Gas Location is within 2640 feet of a Type III Well or GUDI Well: No
11. Oil and Gas Location is within boundary or immediately upgradient of wetland / riparian: No
12. Oil and Gas Location is within High Priority Habitat: No
13. Surface Owner Protection Bond Proposed to Access the Oil and Gas Location: No
14. Working Pad Surface is within 2000 feet of RBU, HOBUs, or School Facility within a DIC: No

Per Rule 304.b.(2), an Alternative Location Analysis is not required for the Federal RG 11-13-298 pad.

*Cultural Distances (Rule 304.b.(3))*

TEP has prepared a map of cultural features within one (1) mile and a table describing the distance from the edge of the proposed working pad surface to the edge or corner of the nearest building, Residential Building Unit, High Occupancy Building Unit, and School Facility; the nearest boundary of a Designated Outside Activity Area; and the nearest public road, above ground utility, railroad, and property line. Any distances that exceed one (1) mile from the proposed working pad surface have been noted as greater than one (1) mile (>5280).

TEP did not identify any buildings, High Occupancy Building Units, School Properties and Facilities, Designated Outdoor Activity Areas, Child Care Centers, or Disproportionately Impacted Communities within one (1) mile of the working pad surface of the Federal RG 11-13-298 pad.

Please see the Cultural Distance Map and Table attached to the Form 2A for additional information required under Rules 304.b.(3).A and Rule 304.b.(3).B.

*Location Pictures (Rule 304.b.(4))*

As required by Rule 304.b.(4).A, four (4) color photographs of the staked Federal RG 11-13-298 pad location were taken on September 28, 2021 in each cardinal direction. Additionally, a map has been prepared that indicates the field of view for each photograph. Please see the Location Photographs and Location Photograph Field of View Map attached to the Form 2A for additional details.

Site Equipment List (Rule 304.b.(5))

Please see Table 4 above, Production Equipment Details, in the Proposed Production Facilities section for a description of the proposed equipment to be utilized on the Federal RG 11-13-298 pad during production operations.

Temporary equipment for well completion operations is summarized in the Proposed Well Completions Operations section above.

Flowline Descriptions (Rule 304.b.(6))

Please see Table 3, Proposed Pipeline Details, in the Proposed Pipeline section above for a description of the proposed on-location and off-location flowlines planned for installation during development of the Federal RG 11-13-298 pad.

Drawings (Rule 304.b.(7))

TEP has prepared and attached the following drawings, maps, and figures to the COGCC Form 2A as required by Rule 304.b.(7) and applicable guidance for the proposed Federal RG 11-13-298 pad:

- A. Location Drawings
- B. Layout Drawings:
  - a. Construction Layout
  - b. Construction Layout Cross Sections
  - c. Wellhead Detail
  - d. Final Construction Grading
  - e. Drilling Rig Layout
  - f. Well Completion Support Pad and Surface Flowline Drawing
  - g. Preliminary Well Completion and Stimulation Layout Drawing of the RGU 23-7-297 Pad
  - h. Preliminary Flowback Equipment Layout Drawing
  - i. Oil and Gas Facilities Layout Drawing – Site Construction
  - j. Interim Reclamation Layout
  - k. Interim Reclamation Layout Cross Section
  - l. Oil and Gas Facilities Layout Drawing – Interim Reclamation
- C. Wildlife Habitat Drawings (Aerial & Topo)
- D. Process Flow Diagrams
  - a. Well Completion Operations
  - b. Flowback Operations
  - c. Production Operations
- E. Hydrology Map
- F. Access Road Map
  - a. Access Road Overview Map
  - b. Access Road Detail Maps
  - c. Haul Route Map
  - d. Proposed Access Road Plan & Profile
- G. Related Location and Flowline Map
- H. Directional Well Plat & Wellhead Detail
- I. Geologic Hazard Map & Report

Geographic Information System Data (Rule 304.b.(8))

Geographic Information System (“GIS”) data depicting the outer boundary (limit of disturbance) of the entire proposed Oil & Gas Location and the working pad surface (pad edge) of the Federal RG 11-13-298

pad has been attached to the Form 2A. The GIS data has been provided in shapefile format in NAD 1983 State Plane Colorado Central FIPS 0502.

Land Use Description (Rule 304.b.(9))

The proposed Federal RG 11-13-298 pad is located on Federal surface owned by BLM within Lot 4 of Section 13, Township 2 South, Range 98 West, 6th P.M., Rio Blanco County, Colorado. Rio Blanco County has a zoning designation of “agricultural” for the property. The current land use for this property is considered rangeland / recreational. The property in the immediate vicinity of the Oil and Gas Location is primarily used for cattle grazing but is also periodically used for recreation, including hunting. The surface owner does not intend to modify the current land use. Therefore, the final land use designation will remain as rangeland / recreational.

As stated above, per Article 3, Section 3-202 of the Rio Blanco County Land Use Code, “Oil and Gas Operations – No Significant Impact” on lands zoned as Agricultural would require an Administrative Review and submittal of a Well Pad Special Use / Building Permit (“SUBP”) and therefore Rio Blanco County approval is required for the proposed activities. The proposed gas and water pipeline associated with the development of the Federal RG 11-13-298 pad would have a length greater than 2,000 feet; therefore, per Article 9, Section 9-106 of the Rio Blanco County Land Use Regulations, a Pipeline Special Use / Building Permit (“SUBPP”) is required. As stated above, TEP will submit the required Rio Blanco County permits concurrently with submittal of the Ryan Gulch Phase 2 OGDG and associated Form 2As.

WestWater Engineering, Inc conducted a Biological Survey in May 2021 and prepared a Biological Survey Report summarizing the findings from the survey. This report also includes a vegetation assessment conducted in June 2021 and a list of dominant vegetation within the reference area, as required per Rule 304.b.(9). The reference area map showing the location of the reference area has been attached to the Form 2A. The reference area pictures were collected by WestWater Engineering during the survey on June 9, 2021, and have been attached to the Form 2A.

NRCS Map Unit Description (Rule 304.b.(10))

The Nation Resources Conservation Service (NRCS) soil map unit description(s) has been attached to the Oil and Gas Location Assessment (Form 2A) as required by Rule 304.b.(10). A soil map has also been prepared and included with the Form 2A.

Best Management Practices (Rule 304.b.(11))

COGCC 100 Series Rule defines Best Management Practices (BMPs) as “...practices that are designed to prevent or reduce impacts caused by oil and gas operations to public health, safety, welfare, the environment, and wildlife.” TEP is committed to conducting operations in a manner that is protective to these resources and has included BMPs in several of the attached plans to describe practices that will be employed during development of the Federal RG 11-13-298 well pad. Furthermore, TEP has consulted with the Bureau of Land Management (“BLM”), Colorado Parks and Wildlife (“CPW”), and the associated surface owners regarding activities described in this Plan of Development.

Surface Owner Information (Rule 304.b.(12))

Please see the Surface Ownership section above for a detailed summary of surface ownership within the scope of the Federal RG 11-13-298 development project.

Proximate Local Government Information (Rule 304.b.(13))

During development planning for the proposed Federal RG 11-13-298 pad, TEP did not identify any Proximate Local Governments, or Local Governments within 2,000 feet of the proposed Oil and Gas Location. The Relevant Local Government is Rio Blanco County as mentioned above.



#### Wetlands (Rule 304.b.(14))

WestWater Engineering (“WestWater”) conducted an assessment in May 2021 to determine any potential direct impacts to wetland, Waters of the U.S. (“WoUS”), or Waters of the State (“WoS”) associated with development of the Federal RG 11-13-298 pad or the associated facilities. During the assessment, WestWater did not identify any potential WoUS/WoS that would be directly impacted by the proposed activities; therefore, the proposed activities does not require approval by the US Army Corps of Engineers (“USACOE”). As shown on the Hydrology Map attached to the Form 2A, there are two (2) potential wetlands/intermittent streams identified by the National Wetland Inventory (“NWI”) database within 2,640’ of the oil and gas location, both features are located downgradient of the oil and gas location. The nearest intermittent stream is located 1,497 feet to the east of the Federal RG 11-13-298 pad, the second is located 1,679 feet to the southwest of the Federal RG 11-13-298 pad. Neither intermittent stream would be directly impacted by proposed operations. Best Management Practices (BMPs), including adequate barriers and filtration methods, will be used to prevent soil erosion and sedimentation of the intermittent stream. Please see the Biological Survey prepared by WestWater for additional details.

#### School and Child Care Centers (Rule 304.b.(15))

During initial planning for the Federal RG 11-13-298 pad, TEP reviewed Rio Blanco County assessor information and the Colorado Department of Human Services childcare facility database to determine if any School Facilities or Child Care Centers were within 2,000 feet of the proposed Oil and Gas Location. This review determined that there are no School Facilities or Child Care Centers within 2,000 feet of the proposed RG 11-13-298 pad.

#### Emergency Spill Response Program (Rule 304.c.(1))

The Working Pad Surface of the Federal RG 11-13-298 pad is not within 2,640 feet of a GUDI well, a Type III Well as defined by Rule 411.b.(1).B and 411.b.(1).D, or a surface water feature segment that is fifteen (15) miles or less upstream from a Public Water System intake. TEP overlaid the available GUDI well and Type III Well data from the COGCC to determine if the proposed operations would be within 2,640 feet of these well. Additionally, TEP identified the Public Water System intake locations downstream of the Federal RG 11-13-298 pad and determined that all proposed operations would not fall within 15 stream miles of an active Public Water System intake.

Based on TEP evaluation, a site-specific Emergency Spill Response Plan is not necessary for planned operations at the Federal RG 11-13-298 pad. However, TEP has implemented and maintains a Spill Prevention, Control and Countermeasure Plan (SPCC), which is a basin wide emergency spill response plan as required by Title 40, Code of Federal Regulations, Part 112 (40 CFR 112) as administered by the U.S. Environmental Protection Agency. This plan describes measures implemented by TEP to prevent oil discharges from occurring and response measures to mitigate the impacts of a potential discharge. TEP has also implemented and maintains a Drilling and Workover Facilities Integrated Spill Prevention, Control, and Countermeasures Plan, as required by 40 CFR Part 112.10, which describes measures to prevent spills and releases during drilling, completions, and workover operations.

#### Noise Mitigation Plan (Rule 304.c.(2))

TEP is requesting an exemption to the Noise Mitigation Plan required under Rule 304.c.(2) pursuant to Rule 304.d Lesser Impact Areas. Please see the attached Lesser Impact Area Exemption Request for more details.

#### Light Mitigation Plan (Rule 304.c.(3))

TEP is requesting an exemption to the Light Mitigation Plan required under Rule 304.c.(3) pursuant to Rule 304.d Lesser Impact Areas. Please see the attached Lesser Impact Area Exemption Request for more details.

Odor Mitigation Plan (Rule 304.c.(4))

The Federal RG 11-13-298 pad is in a remote area of Rio Blanco County, Colorado, which is made up of large tracts of public and private land generally used for resource development, ranching, recreation, and hunting. The working pad surface of the proposed oil and gas location is not within 2,000 feet of a Building Unit or Designated Outside Activity Area. The nearest building unit is greater than one (1) mile from the proposed working pad surface. Based on this information, the Odor Mitigation Plan is not required per Rule 426.a.

Dust Mitigation Plan (Rule 304.c.(5))

TEP has prepared a Dust Mitigation Plan as required per Rule 304.c.(5) and has attached it to the Form 2A for review by the Director and the Commission.

Transportation Plan (Rule 304.c.(6))

As mentioned above, the Federal RG 11-13-298 pad is located within Lot 4 of Section 13, Township 2 South, Range 98 West, 6th P.M. within Rio Blanco County, Colorado. Rio Blanco County is the Relevant Local Government with jurisdiction over siting of oil and gas locations. Per Rio Blanco County Land Use Regulation, a Well Pad Special Use / Building Permit application is required to be submitted for approval by the county. During review of the application requirements a Transportation Plan or Traffic Study is not required as part of the application for this location. Therefore, TEP has not prepared a Transportation Plan per Rule 304.c.(6).

Operations Safety Management Plan (Rule 304.c.(7))

TEP has prepared an Operations Safety Management Plan as required per Rule 304.c.(7) and has attached it to the Form 2A for review by the Director and the Commission.

Emergency Response Plan (Rule 304.c.(8))

TEP has prepared an Emergency Response Plan as required per Rule 304.c.(8) and has attached it to the Form 2A for review by the Director and the Commission.

Flood Shut-in Plan (Rule 304.c.(9))

TEP reviewed floodplain data made available by Rio Blanco County, Colorado and the Federal Emergency Management Administration (FEMA) and has determined that the Federal RG 11-13-298 pad is not located within a floodplain, and therefore a Flood Shut-in Plan is not required for this permit application.

Hydrogen Sulfide Drilling Plan (Rule 304.c.(10))

A hydrogen sulfide drilling plan (H<sub>2</sub>S) has not been prepared and is not required for the Federal RG 11-13-298 pad, as TEP does not expect to encounter H<sub>2</sub>S during drilling of the proposed wells on this oil and gas location.

Waste Management Plan (Rule 304.c.(11))

TEP has prepared a Waste Management Plan as required per Rule 304.c.(11) and has attached it to the Form 2A for review by the Director and the Commission.

Gas Capture Plan (Rule 304.c.(12))

TEP intends to produce natural gas for market sale from the proposed wells on the Federal RG 11-13-298 pad. Bargath will install a eight-inch (8") steel natural gas gathering line to transfer gas from the Federal RG 11-13-298 to their existing sixteen-inch (16") Bargath gas line south of the location. The proposed eight-inch (8") steel natural gas gathering line will parallel the proposed access road to the south where it

will tie-in to the existing sixteen-inch (16”) Bargath gas line near the intersection of BLM road 1019 and the proposed access road. Please see the Proposed Pipeline section above and **Attachment A, Plan of Development Map**, for additional details.

As described above, TEP commits to connecting to our midstream partners gas gathering system prior to commencement of production operations per COGCC Rule 903.e.(1).A.

*Fluid Leak Detection Plan (Rule 304.c.(13))*

TEP has prepared a Fluid Leak Detection Plan as required per Rule 304.c.(13) and has attached it to the Form 2A for review by the Director and the Commission.

*Topsoil Protection Plan (Rule 304.c.(14))*

TEP has prepared a Topsoil Protection Plan as required per Rule 304.c.(14) and has attached it to the Form 2A for review by the Director and the Commission.

*Stormwater Management Plan (Rule 304.c.(15))*

TEP has prepared a Stormwater Management Plan as required per Rule 304.c.(15), including stormwater control exhibits depicting preliminary placement control measures. This plan has been attached to the Form 2A for review by the Director and the Commission.

*Reclamation Plan (Rule 304.c.(16))*

TEP has prepared an Interim Reclamation Plan as required per Rule 304.c.(16) and has attached it to the Form 2A for review by the Director and the Commission.

*Wildlife Protection Plan (Rule 304.c.(17))*

The Federal RG 11-13-298 pad is located outside of all High Priority Habitat (HPH) boundaries identified by COGCC. TEP has prepared a Wildlife Protection Plan as required per Rule 304.c.(17) and has attached it to the Form 2A for review by the Director and the Commission. Compensatory mitigation is not required for the proposed oil and gas location. Additionally, TEP is not requesting any waivers to the COGCC 1200 series rules.

*Water Plan (Rule 304.c.(18))*

TEP has prepared a Water Plan as required per Rule 304.c.(18) and has attached it to the Form 2A for review by the Director and the Commission.

*Cumulative Impacts Plan (Rule 304.c.(19))*

Edge Environmental has reviewed the proposed development plan for the Federal RG 11-13-298 pad and has prepared a Cumulative Impacts Plan as required per Rule 304.c.(19). The Cumulative Impacts Plan has been attached to the Form 2A for review by the Director and the Commission.

*Community Outreach Plan (Rule 304.c.(20))*

The Federal RG 11-13-298 pad is in a remote area of Rio Blanco County, Colorado, which is made up of large tracts of public and private land generally used for resource development, ranching, recreation, and hunting. The working pad surface of the proposed oil and gas location is not within 2,000 feet of a Residential Building Unit, High Occupancy Building Unit, or School Facility located within a Disproportionately Impacted Community. Therefore, the Community Outreach Plan is not required per Rule 426.a.

Geologic Hazard Plan (Rule 304.c.(11))

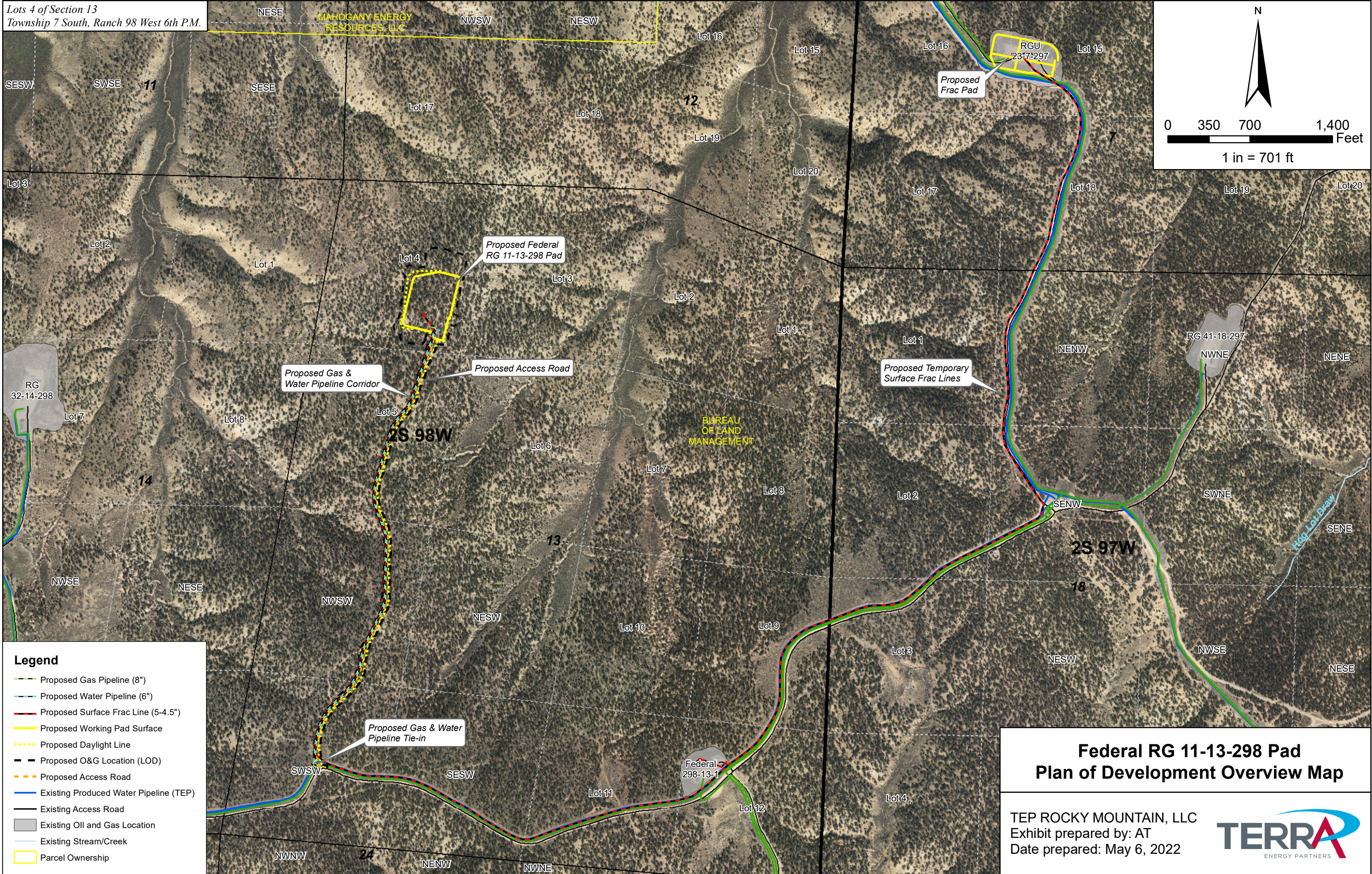
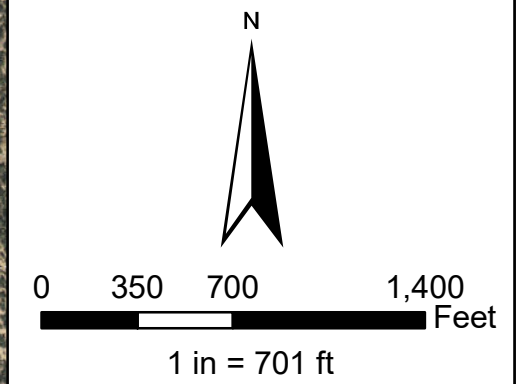
TEP's geologist has reviewed the proposed development plan for the Federal RG 11-13-298 pad and has determined that there are no known Geologic Hazards within the proposed site. Please see the attached Geologic Hazards Map which includes a report with a detailed review of geologic hazards within the vicinity of the proposed pad location.

Lesser Impact Area (Rule 304.d.)

TEP is requesting a Lesser Impact Area Exemption for the Noise Mitigation Plan and Lighting Mitigation Plan required per Rule 304.b. and has attached a Lesser Impact Area Exemption Request to the Form 2A describing the basis for the exemption request.



*Lots 4 of Section 13  
Township 7 South, Ranch 98 West 6th P.M.*



## Federal RG 11-13-298 Pad Plan of Development Overview Map

TEP ROCKY MOUNTAIN, LLC  
Exhibit prepared by: AT  
Date prepared: May 6, 2022

