

Note:
All Proposed Surface Well Locations
will Utilize Existing Closed Conductors

EXISTING WELL DATA:

WELL	NORTHING	EASTING
Trail Ridge 32-28	1650777.0	2216050.9

REVISED: 4/14/23

Construction Plan Prepared for:

TERRA ENERGY PARTNERS
TEP Rocky Mountain LLC

TR 32-28-597 Drill Pad
CONSTRUCTION LAYOUT

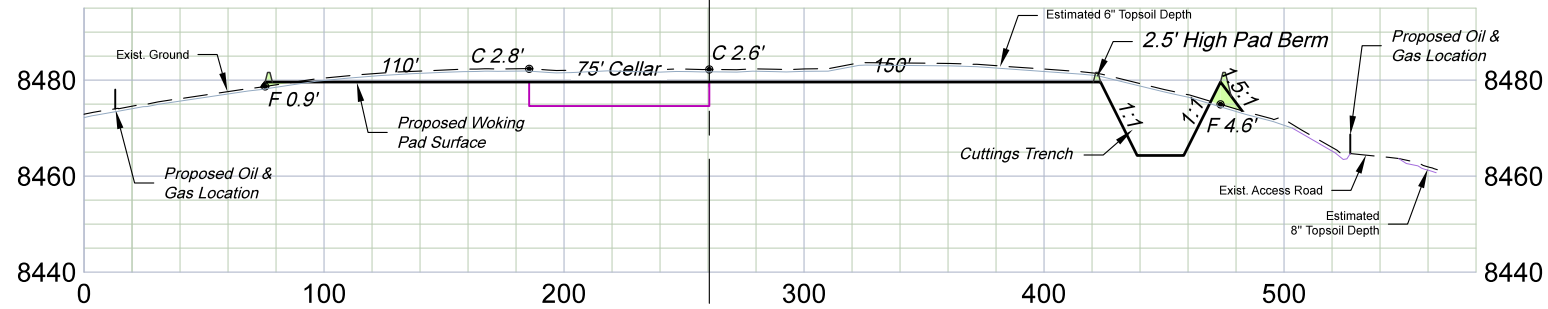
136 East Third Street
Rifle, Colorado 81650
Ph. (970) 625-1330
Fax: (970) 625-2773

BOOKCLIFF
Survey Services, Inc.

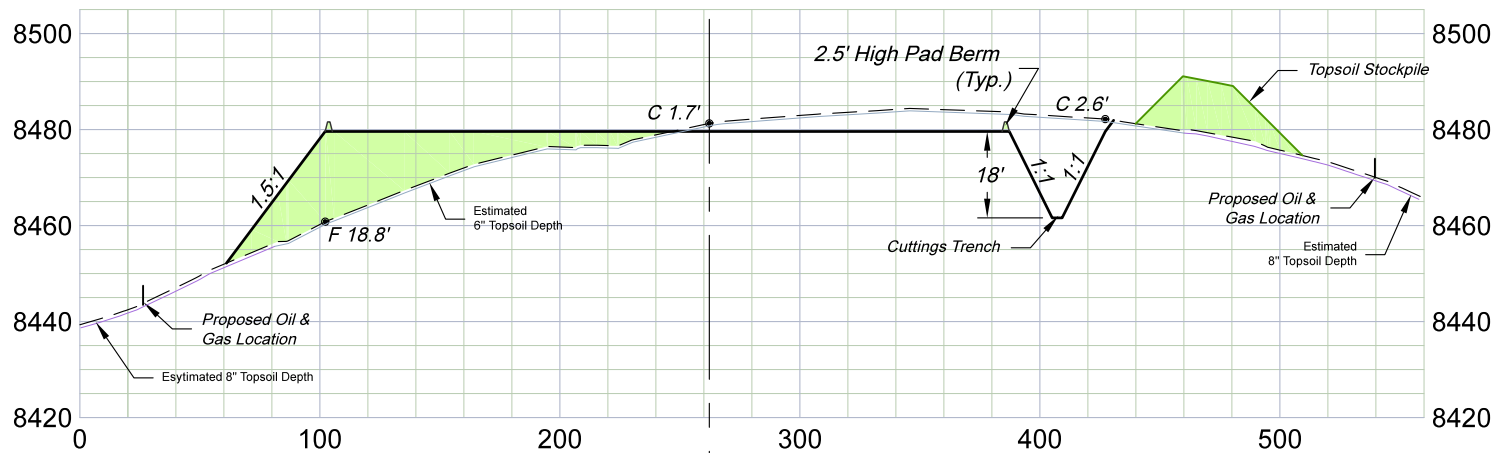
SCALE:	1" = 80'
DATE:	10/27/22
PROJECT:	Trail Ridge
DFT:	cs

☐
Construction

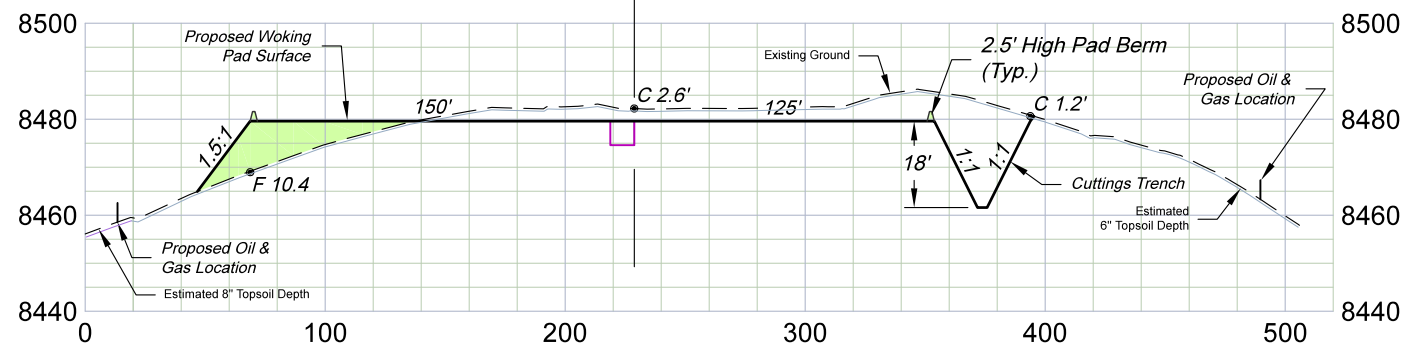
Section A



Section B



Section C



SCALE: Horiz.: 1" = 80'
Vert.: 1" = 40'

*Construction Notes

- 1) Maximum Cut Slope: 1:1
Maximum Fill Slope: 1.5:1
BSS, Inc. was requested to calculate Earthwork volumes using the depicted Cut/Fill slopes. The Stability of the depicted Slopes cannot be determined without a Geotechnical Investigation, Therefore, BSS Inc. can not determine the Safety or Stability of Cut/Fill Slopes, as Shown on this sheet.
- 2) In-Situ Soils Assumed at 88% Density.
All Fill Material Shall be Placed at Min. of 95% Standard Proctor Density, within 2% of Optimum Moisture Content.
7% Volume Loss Assumed in Fill Placement.
- 3) Topsoil based on NRCS Soils Mapping.

ESTIMATED TOPSOIL VOLUMES

6" Topsoil Depth, Original Disturbance Area: ±2,870 cy
6" Topsoil Depth, New Disturbance Within: ± 310 cy
NRCS Map Unit 56
8" Topsoil Depth, New Disturbance Within: ±1,370 cy
NRCS Mapping Unit 55
Estimated Topsoil Quantity Total: ±4,550 cy

DISTURBANCE AREAS

Oil and Gas Location: ±5.778 ac.
Working Pad Surface: ±2.941 ac.
Pipeline / Utility Corridor: ±0.134 ac.

Pad Surface Completion Volumes:

4" Aggregate Base = ±1,590 cy
4" Shale Base = ±1,590 cy

DRILL PAD
ESTIMATED EARTHWORK QUANTITIES (cy)

ITEM		QUANTITY (CY)	NOTES
TOPSOIL STRIPPING & STOCKPILE		4,550	No Soil Vol. Adjustment Applied
CUT	PAD	9,880	±7% Volume Loss Assumed in Fill Placement
	TRENCH	8,270	
	±7% Loss	-1,190	
FILL		16,960	
REMAINING UN-BALANCE		0	

REVISED: 4/20/23

SCALE:	As Noted
DATE:	10/18/22
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DFT:	cs

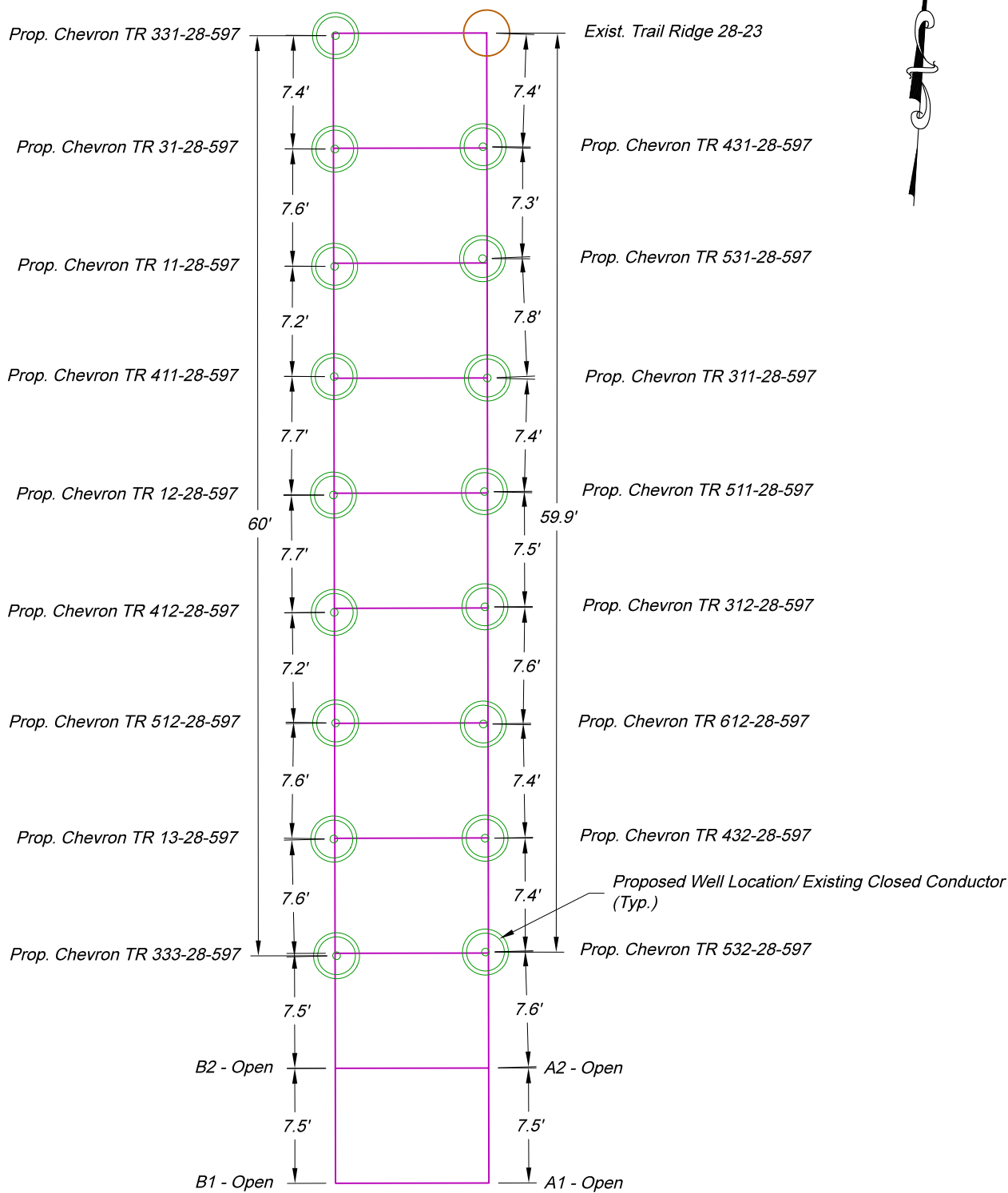
Construction Plan Prepared for:



TEP Rocky Mountain LLC

TR 32-28-597 Drill Pad

CONSTRUCTION LAYOUT CROSS SECTIONS



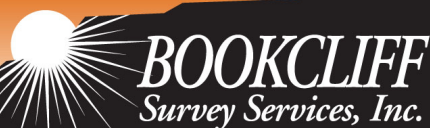
WELL HEAD DETAIL

Scale: NTS

Note:
All Proposed Surface Well Locations
will Utilize Existing Closed Conductors

REVISED: 5/15/23

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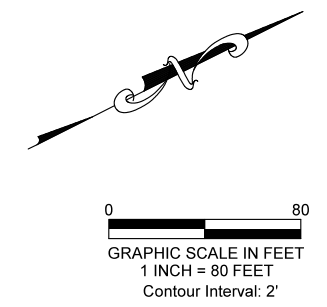
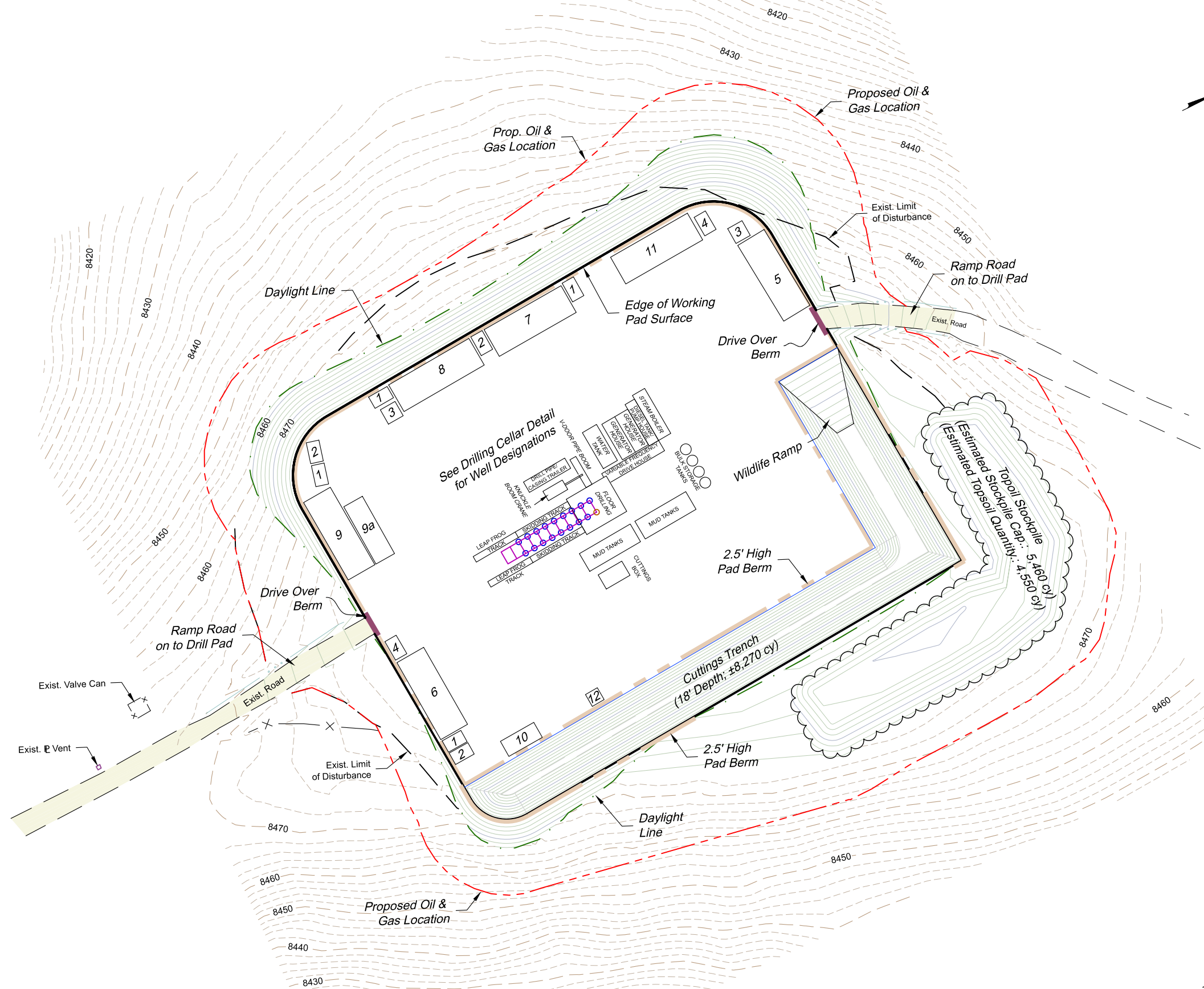


SCALE: NTS
DATE: 3/21/23
PROJECT: TEP Piceance
DFT: cs

Construction Plan Prepared for:



TR 32-28-597 Drill Pad
DRILLING CELLAR DETAIL



- Identification & Location Key**
- 1. Wastewater Aboveground Tank (1500 gal)
 - 2. Potable Water Aboveground Tank (3360 gal)
 - 3. Portable Toilets
 - 4. Wildlife-proof Dumpster
 - 5. Company Man Housing
 - 6. Office
 - 7. Driler's Office/Housing
 - 8. Directional
 - 9. Mud Engineer 9a. Mud Engineer Office
 - 10. Shed 11. Change House
 - 12. Flare Unit
- *Subject to Relocation for Construction Activities.

REVISED: 4/13/23

REVISED: 4/13/23

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BOOKCLIFF
Survey Services, Inc.

SCALE:	1" = 80'
DATE:	3/21/23
PROJECT:	Trail Ridge
DFT:	cs

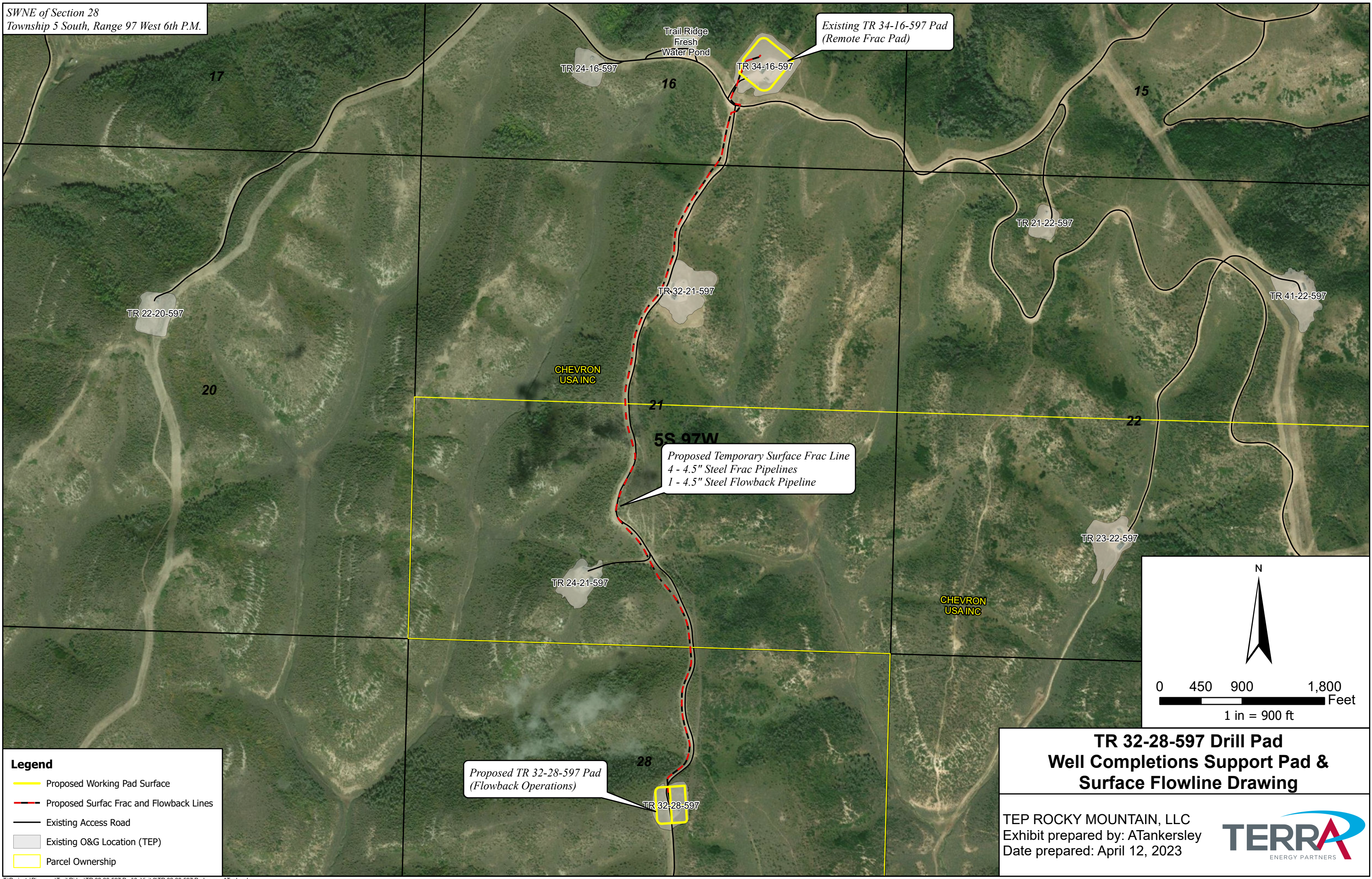
REVISI**ON**: 4/13/23

Construction Plan Prepared for:

TERRA ENERGY PARTNERS TEP Rocky Mountain LLC

TR 32-28-597 Drill Pad
DRILL RIG LAYOUT

SWNE of Section 28
Township 5 South, Range 97 West 6th P.M.

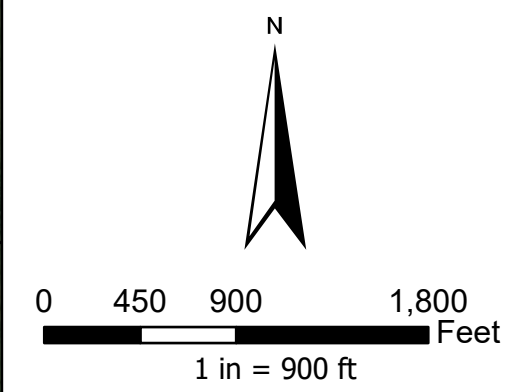


Existing TR 34-16-597 Pad
(Remote Frac Pad)

Proposed Temporary Surface Frac Line
4 - 4.5" Steel Frac Pipelines
1 - 4.5" Steel Flowback Pipeline

Proposed TR 32-28-597 Pad
(Flowback Operations)

- Legend**
- Proposed Working Pad Surface
 - Proposed Surface Frac and Flowback Lines
 - Existing Access Road
 - Existing O&G Location (TEP)
 - Parcel Ownership

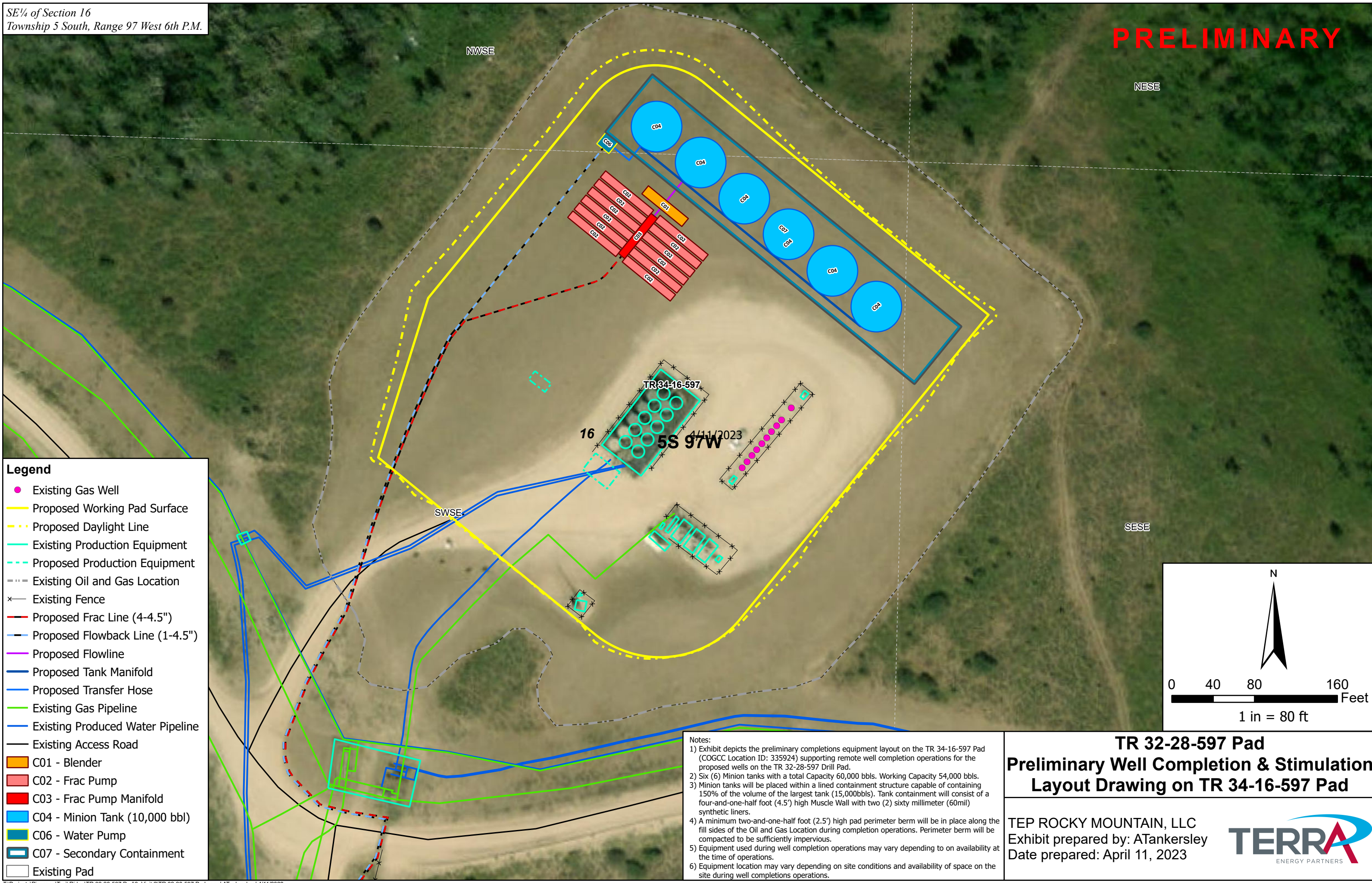


**TR 32-28-597 Drill Pad
Well Completions Support Pad &
Surface Flowline Drawing**

TEP ROCKY MOUNTAIN, LLC
Exhibit prepared by: ATankersley
Date prepared: April 12, 2023

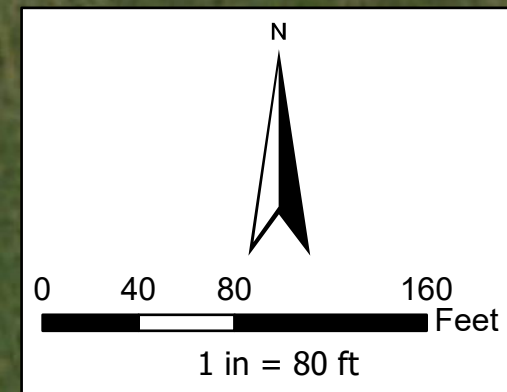


PRELIMINARY



Legend

- Existing Gas Well
- Proposed Working Pad Surface
- - - Proposed Daylight Line
- Existing Production Equipment
- - - Proposed Production Equipment
- - - Existing Oil and Gas Location
- × Existing Fence
- Proposed Frac Line (4-4.5")
- Proposed Flowback Line (1-4.5")
- Proposed Flowline
- Proposed Tank Manifold
- Proposed Transfer Hose
- Existing Gas Pipeline
- Existing Produced Water Pipeline
- Existing Access Road
- C01 - Blender
- C02 - Frac Pump
- C03 - Frac Pump Manifold
- C04 - Minion Tank (10,000 bbl)
- C06 - Water Pump
- C07 - Secondary Containment
- Existing Pad



Notes:

- 1) Exhibit depicts the preliminary completions equipment layout on the TR 34-16-597 Pad (COGCC Location ID: 335924) supporting remote well completion operations for the proposed wells on the TR 32-28-597 Drill Pad.
- 2) Six (6) Minion tanks with a total Capacity 60,000 bbls. Working Capacity 54,000 bbls.
- 3) Minion tanks will be placed within a lined containment structure capable of containing 150% of the volume of the largest tank (15,000bbls). Tank containment will consist of a four-and-one-half foot (4.5') high Muscle Wall with two (2) sixty millimeter (60mil) synthetic liners.
- 4) A minimum two-and-one-half foot (2.5') high pad perimeter berm will be in place along the fill sides of the Oil and Gas Location during completion operations. Perimeter berm will be compacted to be sufficiently impervious.
- 5) Equipment used during well completion operations may vary depending to on availability at the time of operations.
- 6) Equipment location may vary depending on site conditions and availability of space on the site during well completions operations.

**TR 32-28-597 Pad
Preliminary Well Completion & Stimulation
Layout Drawing on TR 34-16-597 Pad**

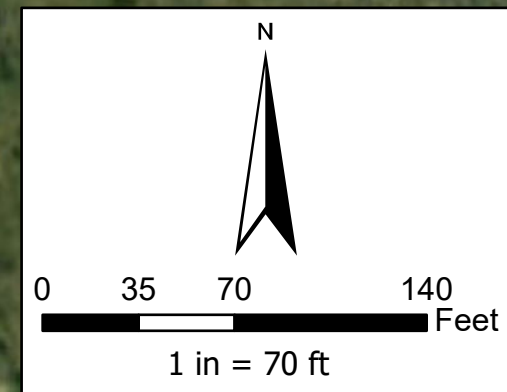
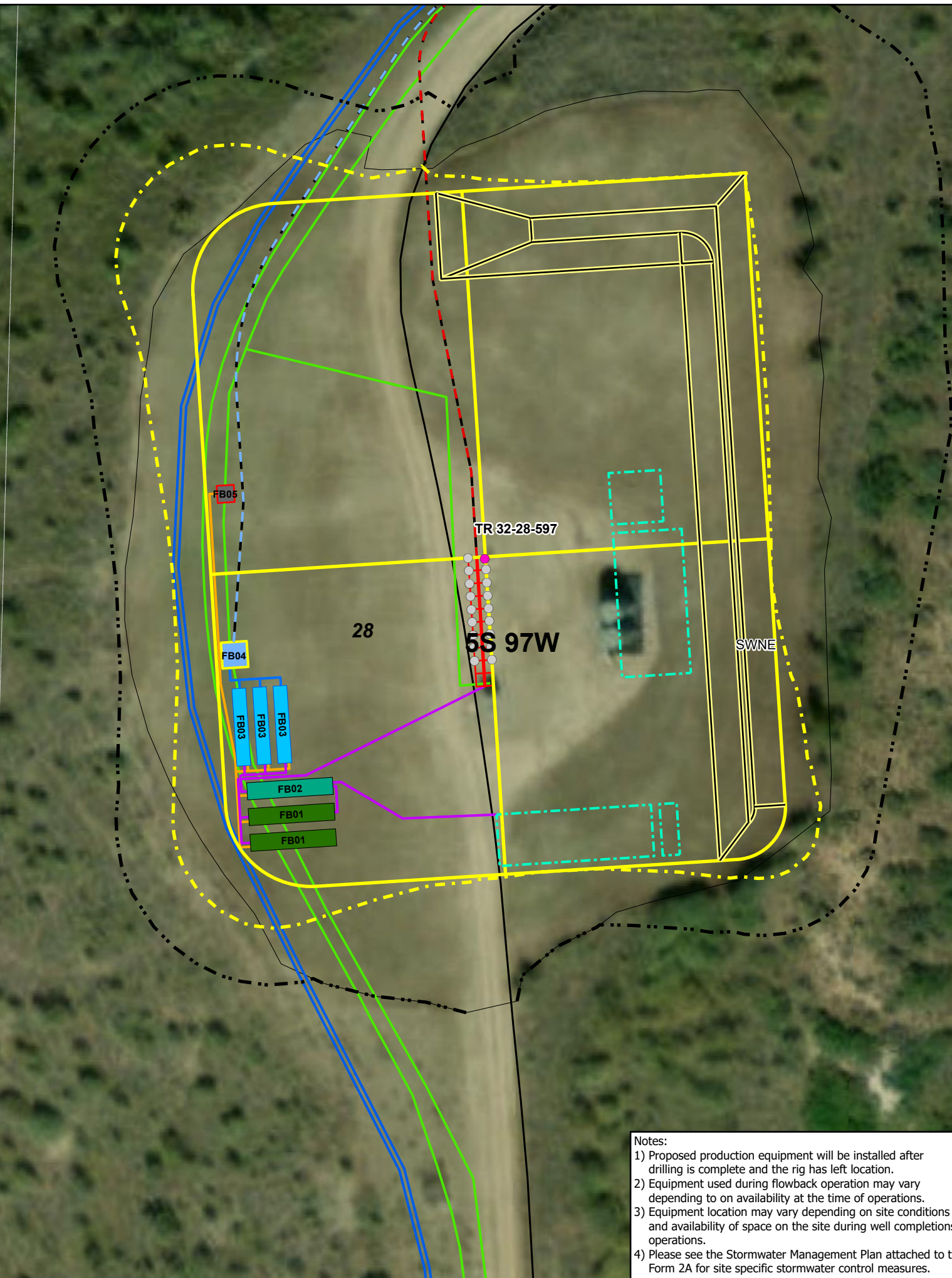
TEP ROCKY MOUNTAIN, LLC
Exhibit prepared by: ATankersley
Date prepared: April 11, 2023



PRELIMINARY


Legend

- Existing Gas Well (SHL)
- Future Gas Well (SHL)
- Proposed Cellar
- Proposed Working Pad Surface
- Proposed Cuttings Trench
- - - Proposed Daylight Line
- - - Proposed Production Equipment
- - - Proposed Oil and Gas Location
- Proposed Frac Line (4-4.5")
- Proposed Flowback Line (1-4.5")
- Proposed Flare Line
- Proposed Flowline
- Proposed Transfer Hose
- Proposed Wellhead Manifold
- Existing Gas Pipeline
- Existing Produced Water Pipeline
- Existing Access Road
- FB01 - HP 4-Phase Separator
- FB02 - LP P-Tank
- FB03 - Produced Water Tank
- FB04 - Water Pump
- FB05 - Flare
- Existing Pad

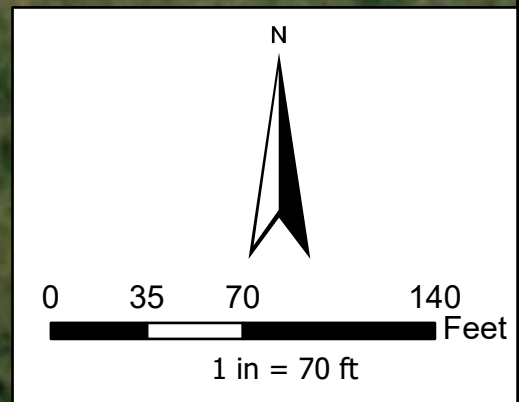
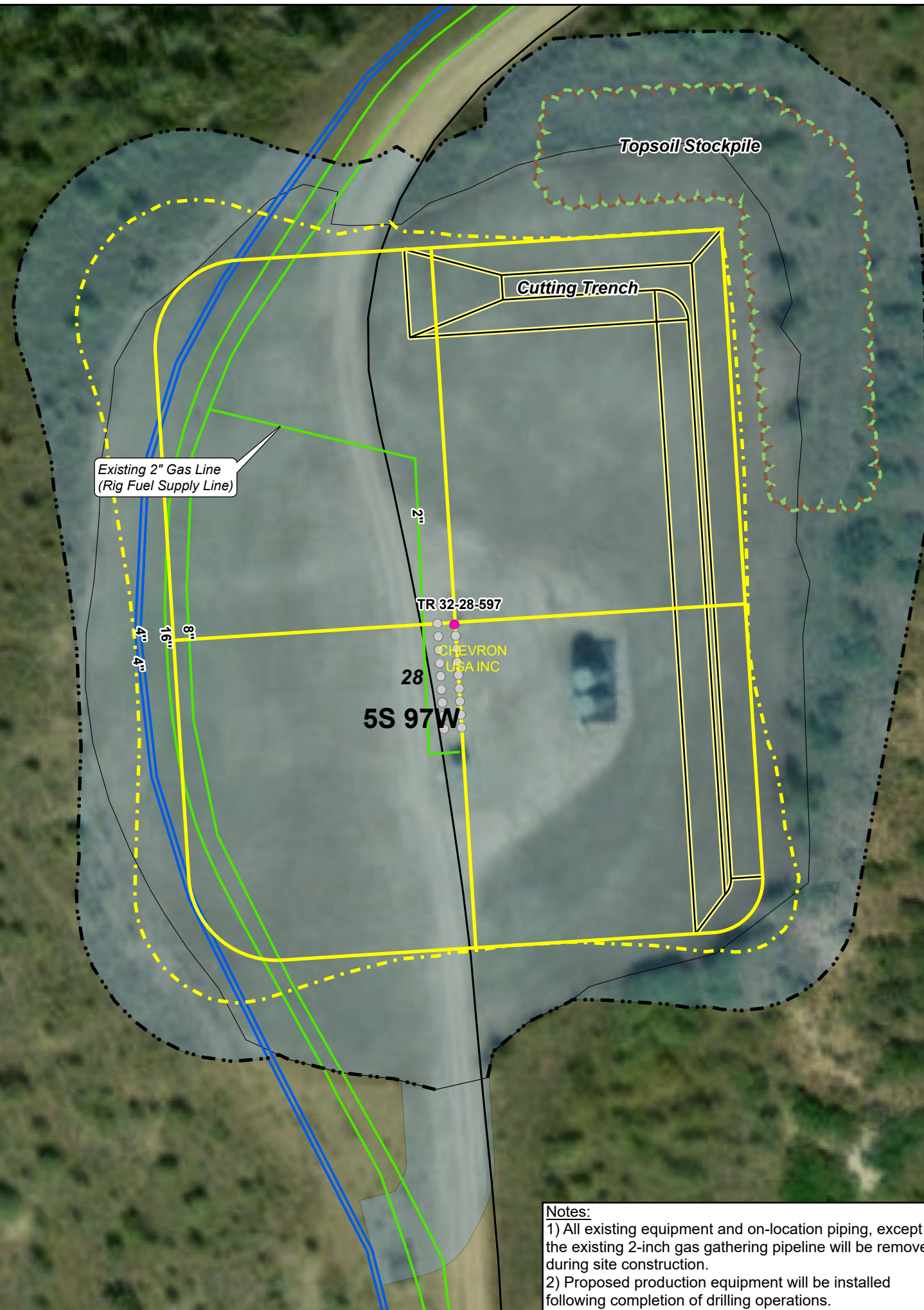


**TR 32-28-597 Pad
Preliminary Flowback Equipment
Layout Drawing**

TEP ROCKY MOUNTAIN, LLC
Exhibit prepared by: TB
Date prepared: April 12, 2023



- Notes:
- 1) Proposed production equipment will be installed after drilling is complete and the rig has left location.
 - 2) Equipment used during flowback operation may vary depending to on availability at the time of operations.
 - 3) Equipment location may vary depending on site conditions and availability of space on the site during well completions operations.
 - 4) Please see the Stormwater Management Plan attached to the Form 2A for site specific stormwater control measures.



Legend

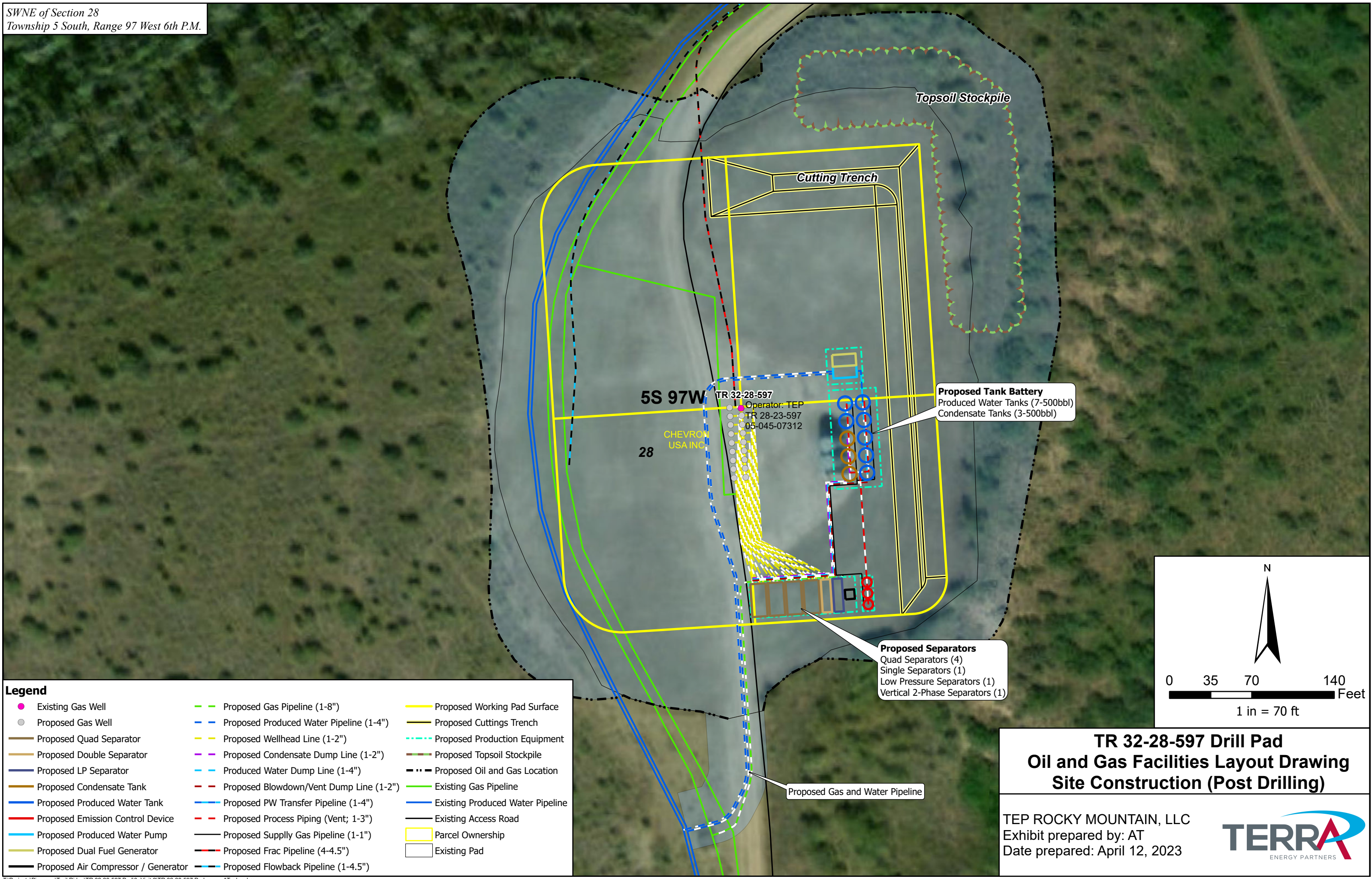
● Existing Gas Well	— Existing Gas Pipeline
○ Proposed Gas Well	— Existing Produced Water Pipeline
— Proposed Working Pad Surface	— Existing Access Road
— Proposed Cuttings Trench	▭ Parcel Ownership
- - - Proposed Daylight Line	▭ Existing Pad
— Proposed Topsoil Stockpile	▭ Project Disturbance Area
- · - · Proposed Oil and Gas Location	

Notes:
 1) All existing equipment and on-location piping, except the existing 2-inch gas gathering pipeline will be removed during site construction.
 2) Proposed production equipment will be installed following completion of drilling operations.

**TR 32-28-597 Drill Pad
Oil and Gas Facilities Layout Drawing
Site Construction**

TEP ROCKY MOUNTAIN, LLC
 Exhibit prepared by: TB
 Date prepared: April 12, 2023

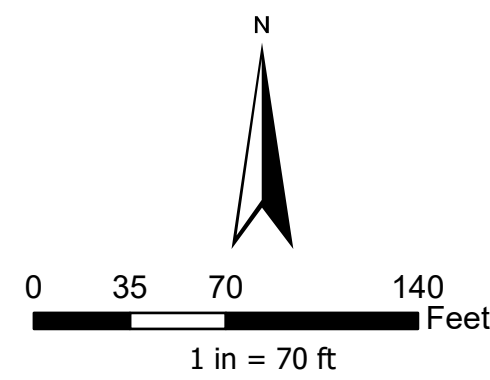




Legend		
● Existing Gas Well	— Proposed Gas Pipeline (1-8")	— Proposed Working Pad Surface
○ Proposed Gas Well	— Proposed Produced Water Pipeline (1-4")	— Proposed Cuttings Trench
— Proposed Quad Separator	— Proposed Wellhead Line (1-2")	— Proposed Production Equipment
— Proposed Double Separator	— Proposed Condensate Dump Line (1-2")	— Proposed Topsoil Stockpile
— Proposed LP Separator	— Produced Water Dump Line (1-4")	— Proposed Oil and Gas Location
— Proposed Condensate Tank	— Proposed Blowdown/Vent Dump Line (1-2")	— Existing Gas Pipeline
— Proposed Produced Water Tank	— Proposed PW Transfer Pipeline (1-4")	— Existing Produced Water Pipeline
— Proposed Emission Control Device	— Proposed Process Piping (Vent; 1-3")	— Existing Access Road
— Proposed Produced Water Pump	— Proposed Supply Gas Pipeline (1-1")	— Parcel Ownership
— Proposed Dual Fuel Generator	— Proposed Frac Pipeline (4-4.5")	— Existing Pad
— Proposed Air Compressor / Generator	— Proposed Flowback Pipeline (1-4.5")	

Proposed Tank Battery
Produced Water Tanks (7-500bbl)
Condensate Tanks (3-500bbl)

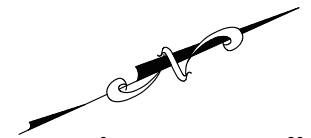
Proposed Separators
Quad Separators (4)
Single Separators (1)
Low Pressure Separators (1)
Vertical 2-Phase Separators (1)



**TR 32-28-597 Drill Pad
Oil and Gas Facilities Layout Drawing
Site Construction (Post Drilling)**

TEP ROCKY MOUNTAIN, LLC
Exhibit prepared by: AT
Date prepared: April 12, 2023

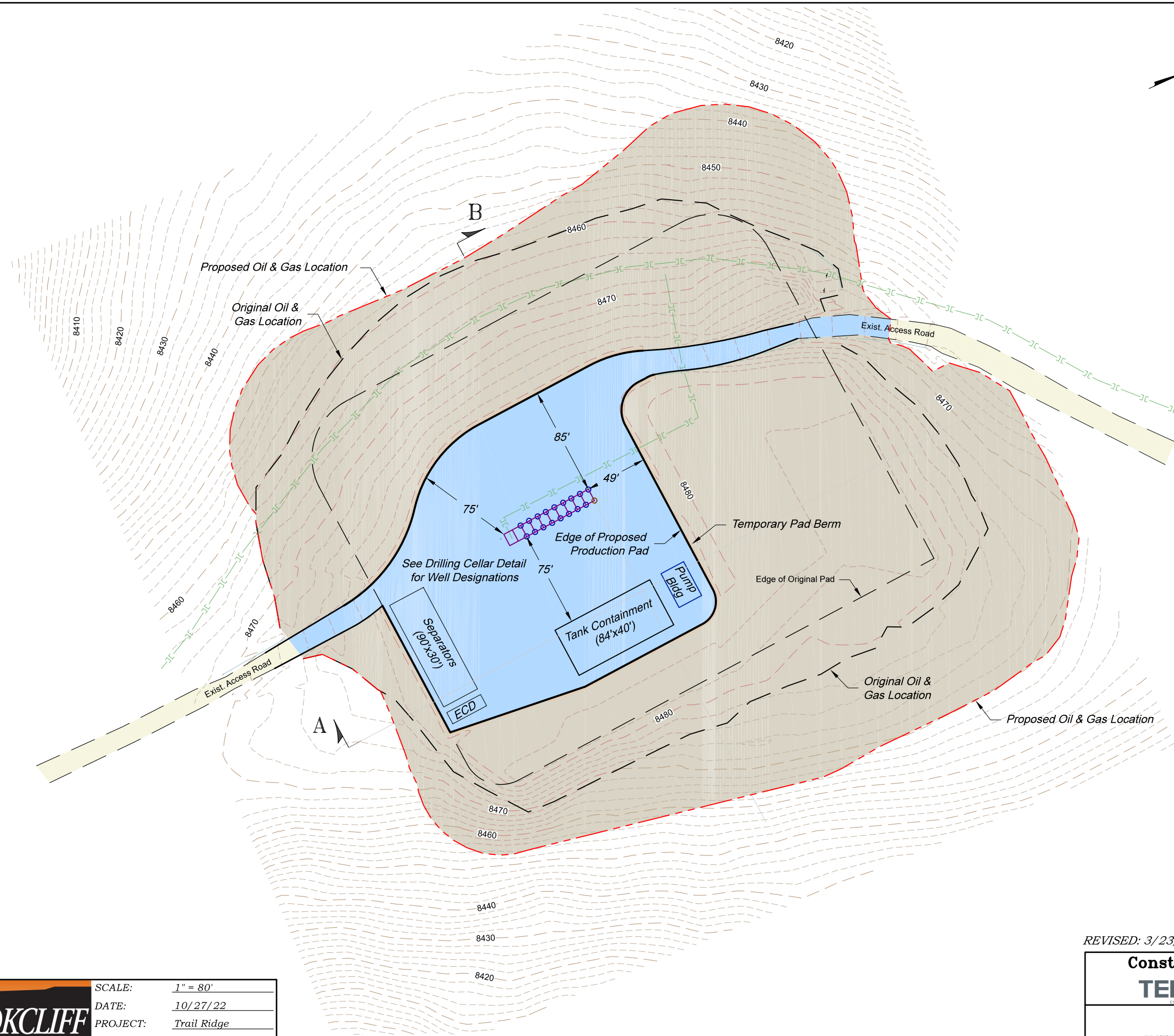




0 80
GRAPHIC SCALE IN FEET
1 INCH = 80 FEET
Contour Interval: 2'

UnReclaimed Area: ±1.192 ac.
Reclaimed Area: ±4.586 ac.
Total Site Disturbance: ±5.778 ac.

LEGEND
Reclaimed Area [Brown shaded area]
UnReclaimed Area [Blue shaded area]



REVISED: 3/23/23

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BOOKCLIFF
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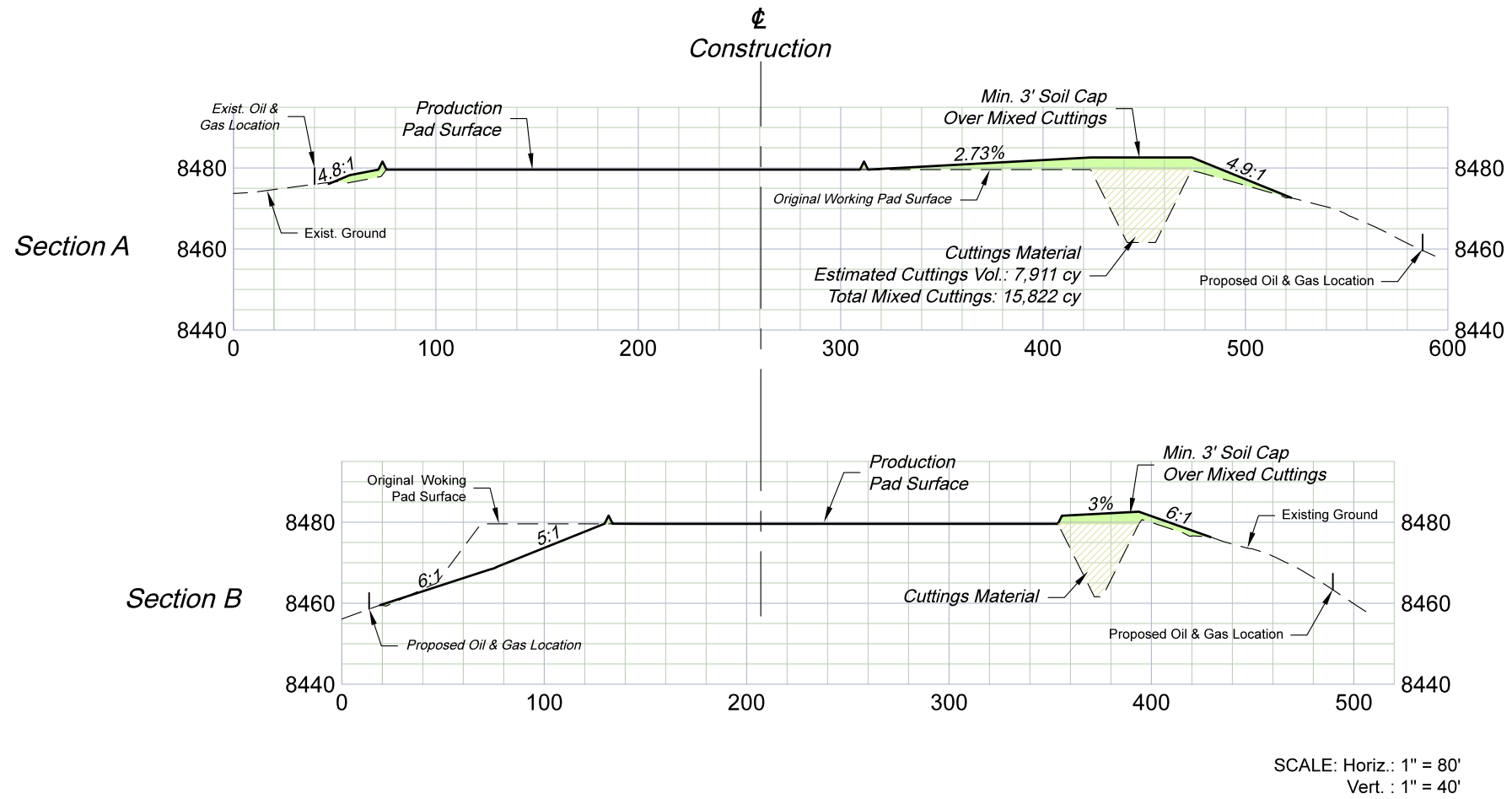
SCALE:	1" = 80'
DATE:	10/27/22
PROJECT:	Trail Ridge
DFT:	cs

REVISED: 3/23/23

Construction Plan Prepared for:

TEP Rocky Mountain LLC

TR 32-28-597 Drill Pad
INTERIM RECLAMATION LAYOUT

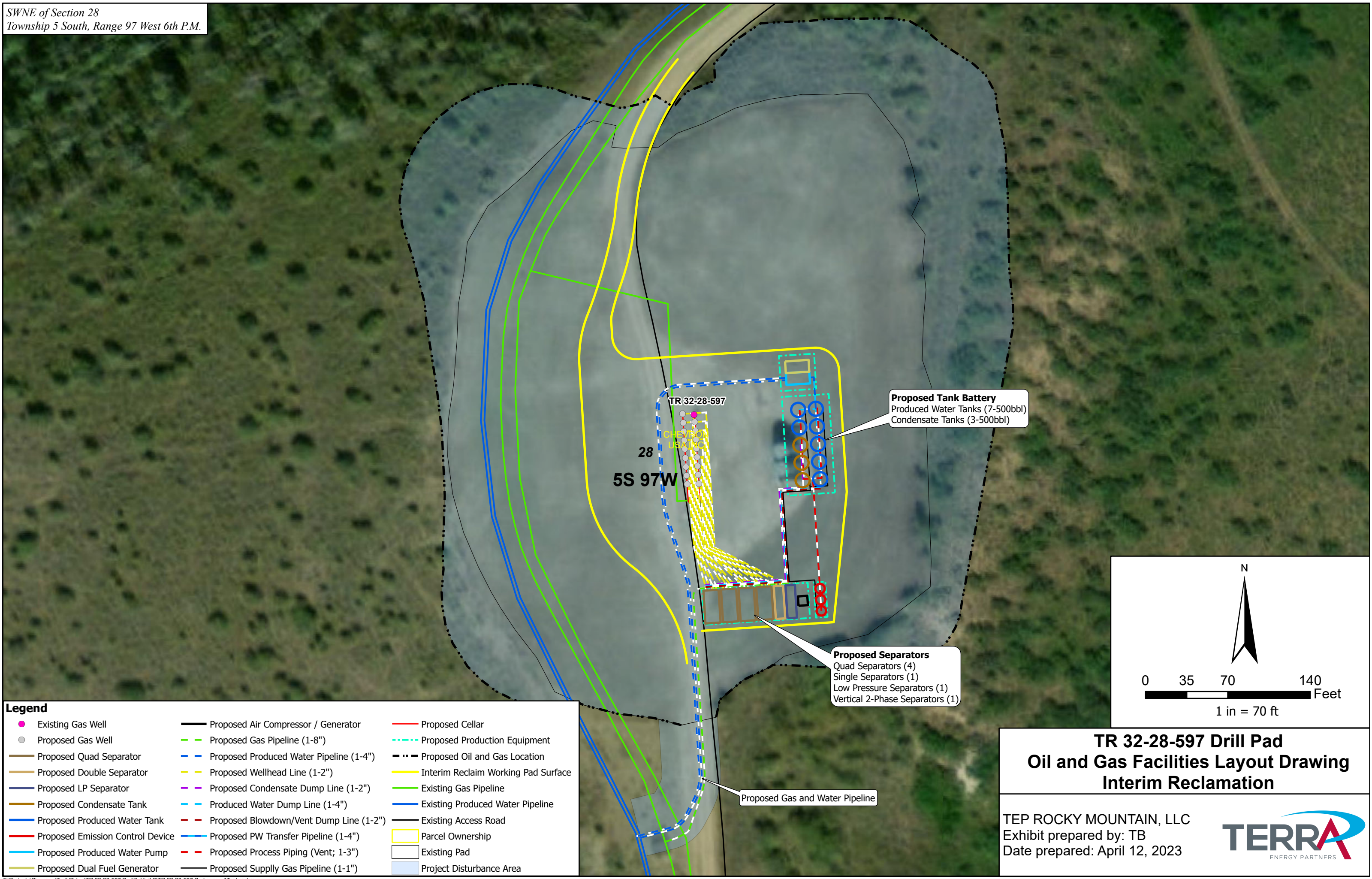


*Reclaim Slopes Vary As Shown

ESTIMATED EARTHWORK QUANTITIES (cy)			Running TOTAL
Material Excavated, Stockpiled and Generated Cuttings	Interim Cut	15,470	15,470
	Un-Mixed Cuttings	+7,911	23,380
	Topsoil Stockpile	+5,450	28,830
Reclaim Fill Material	Mixed Cuttings	-15,822	13,010
	Remaining Fill ¹	-13,009	0
Total Remaining to Balance		0	

¹Remaining Fill= Any Cut Not Used for Mixing Cuttings + Topsoil

REVISED: 4/20/23b



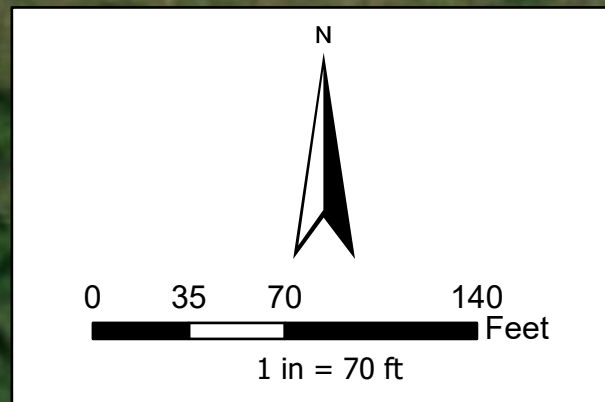
Legend

● Existing Gas Well	— Proposed Air Compressor / Generator	— Proposed Cellar
○ Proposed Gas Well	— Proposed Gas Pipeline (1-8")	- - - Proposed Production Equipment
— Proposed Quad Separator	— Proposed Produced Water Pipeline (1-4")	- - - Proposed Oil and Gas Location
— Proposed Double Separator	— Proposed Wellhead Line (1-2")	— Interim Reclaim Working Pad Surface
— Proposed LP Separator	— Proposed Condensate Dump Line (1-2")	— Existing Gas Pipeline
— Proposed Condensate Tank	— Produced Water Dump Line (1-4")	— Existing Produced Water Pipeline
— Proposed Produced Water Tank	— Proposed PW Transfer Pipeline (1-4")	— Existing Access Road
— Proposed Emission Control Device	— Proposed Blowdown/Vent Dump Line (1-2")	— Parcel Ownership
— Proposed Produced Water Pump	— Proposed Process Piping (Vent; 1-3")	— Existing Pad
— Proposed Dual Fuel Generator	— Proposed Supply Gas Pipeline (1-1")	— Project Disturbance Area

Proposed Tank Battery
Produced Water Tanks (7-500bbl)
Condensate Tanks (3-500bbl)

Proposed Separators
Quad Separators (4)
Single Separators (1)
Low Pressure Separators (1)
Vertical 2-Phase Separators (1)

Proposed Gas and Water Pipeline



**TR 32-28-597 Drill Pad
Oil and Gas Facilities Layout Drawing
Interim Reclamation**

TEP ROCKY MOUNTAIN, LLC
Exhibit prepared by: TB
Date prepared: April 12, 2023

