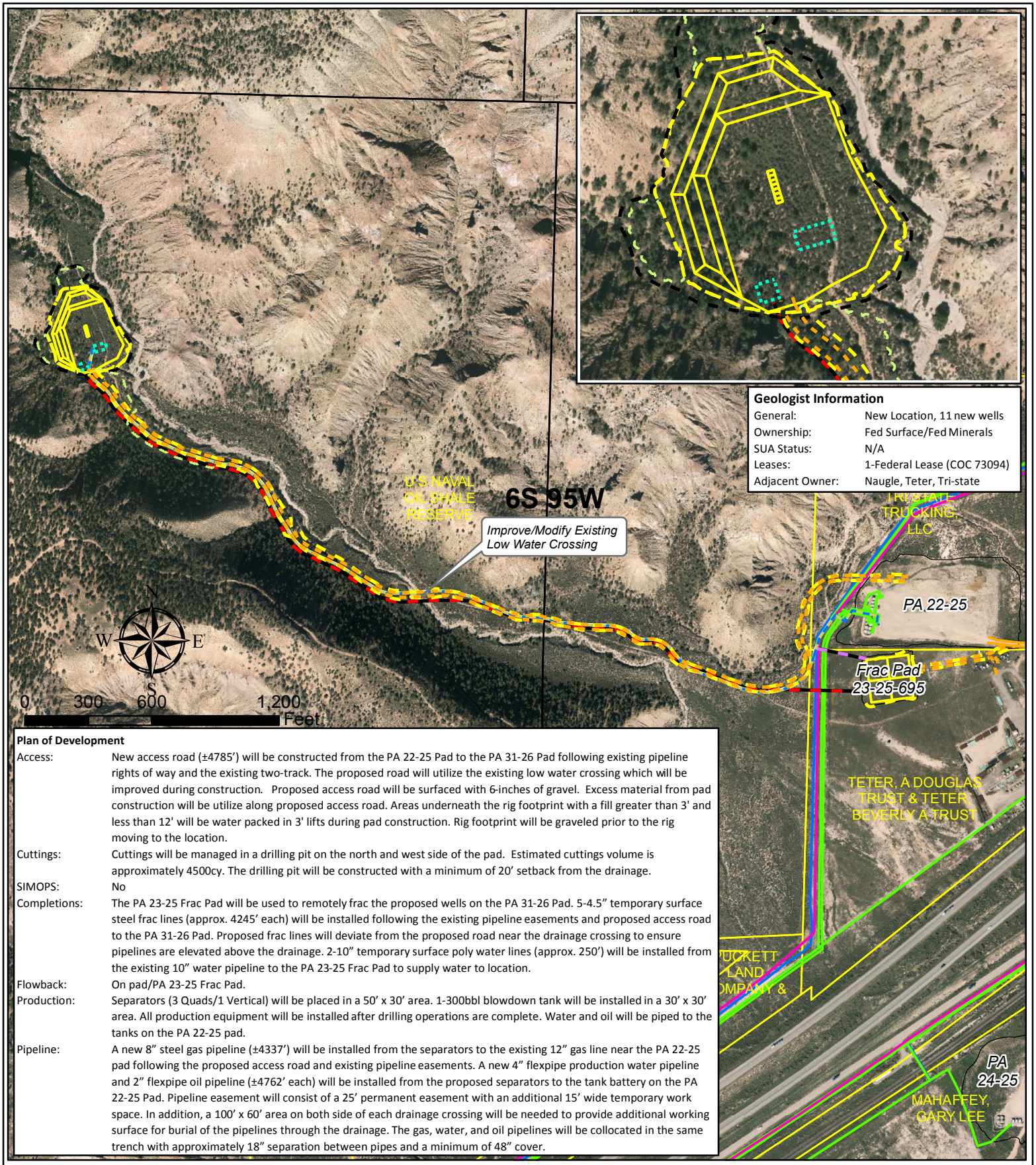

Geologist Information

General:	New Location, 11 new wells
Ownership:	Fed Surface/Fed Minerals
SUA Status:	N/A
Leases:	1-Federal Lease (COC 73094)
Adjacent Owner:	Naugle, Teter, Tri-state

Plan of Development

Access:	New access road (±4785') will be constructed from the PA 22-25 Pad to the PA 31-26 Pad following existing pipeline rights of way and the existing two-track. The proposed road will utilize the existing low water crossing which will be improved during construction. Proposed access road will be surfaced with 6-inches of gravel. Excess material from pad construction will be utilize along proposed access road. Areas underneath the rig footprint with a fill greater than 3' and less than 12' will be water packed in 3' lifts during pad construction. Rig footprint will be graveled prior to the rig moving to the location.
Cuttings:	Cuttings will be managed in a drilling pit on the north and west side of the pad. Estimated cuttings volume is approximately 4500cy. The drilling pit will be constructed with a minimum of 20' setback from the drainage.
SIMOPS:	No
Completions:	The PA 23-25 Frac Pad will be used to remotely frac the proposed wells on the PA 31-26 Pad. 5-4.5" temporary surface steel frac lines (approx. 4245' each) will be installed following the existing pipeline easements and proposed access road to the PA 31-26 Pad. Proposed frac lines will deviate from the proposed road near the drainage crossing to ensure pipelines are elevated above the drainage. 2-10" temporary surface poly water lines (approx. 250') will be installed from the existing 10" water pipeline to the PA 23-25 Frac Pad to supply water to location.
Flowback:	On pad/PA 23-25 Frac Pad.
Production:	Separators (3 Quads/1 Vertical) will be placed in a 50' x 30' area. 1-300bbl blowdown tank will be installed in a 30' x 30' area. All production equipment will be installed after drilling operations are complete. Water and oil will be piped to the tanks on the PA 22-25 pad.
Pipeline:	A new 8" steel gas pipeline (±4337') will be installed from the separators to the existing 12" gas line near the PA 22-25 pad following the proposed access road and existing pipeline easements. A new 4" flexpipe production water pipeline and 2" flexpipe oil pipeline (±4762' each) will be installed from the proposed separators to the tank battery on the PA 22-25 Pad. Pipeline easement will consist of a 25' permanent easement with an additional 15' wide temporary work space. In addition, a 100' x 60' area on both side of each drainage crossing will be needed to provide additional working surface for burial of the pipelines through the drainage. The gas, water, and oil pipelines will be collocated in the same trench with approximately 18" separation between pipes and a minimum of 48" cover.

Legend

- Proposed Stockpile
- Proposed Road
- Proposed Production Equipment
- Proposed Daylight Line
- Proposed Pad or Pit
- Proposed Limit of Disturbance
- Proposed 8" Gas Pipeline
- Proposed 4" Water/2" Oil Pipelines
- Frac Water Supply Line (2-10" Poly)
- Temporary Frac Lines (5-4.5" Steel)
- Williams Midstream Pipeline
- Existing Gas Pipeline
- Existing Water Pipeline
- Existing Pad
- Parcel Ownership

TEP Rocky Mountain LLC

PA 31-26 Plan of Development
T6S R95W, Section 26

May 22, 2019

TERRA ENERGY PARTNERS

T:\Projects\PIC\Parachute\17\0607_BalzacGulch_Phase_2_DevelopmentProject\PA 31-26 Pad\PA 31-26 POD.mxd atankersley 5/22/2019 9:35:35 AM