



PROJECT

Solaris Frac Sand & Transload Facility

LOCATION

Okarche, Oklahoma

PRODUCT

Tensar TriAx® TX7 geogrid was used beneath Transload
Tensar TriAx® TX130 was used for rail section

QUANTITY

Tensar TriAx® TX130 122,457 square yards
Tensar TriAx® TX7 159,220 square yards

OWNER AND/OR DEVELOPER

Solaris Oilfield Infrastructure

CONTRACTOR

Shackelford Construction

ENGINEER

Hinderliter Geotechnical Engineering
Via Rail Engineers

INSTALLATION DATE

September 2017

PROJECT DETAILS

Hinderliter Geotechnical engineers reached out to Tensar about a large project that was currently designed using a thick aggregate section and a typical rail section. Shackelford Construction was already selected for the job. Tensar reacted immediately and completed a design using TX7 geogrid & 10" of aggregate that would reduce the aggregate section 12" from the original design. Lime & cement stabilization were being pushed by the contractor; however, the geotechnical engineer saw the value of geogrid and recommended it over chemical treatment. The rail section was also redesigned by Tensar and the sub ballast was reduced by 6" by using 1 layer of TX130 geogrid, while increasing the factor of safety from 3.4 to 4.4. Installation went well as the contractor had previous experience with grid. Tensar was on site several times during the construction process to ensure the install went well. The result of this project was an improved relationship with a large contractor, geotechnical engineer and rail engineer who now look to Tensar for input on projects that could utilize geogrid.

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