



DRAINTUBE

AT WORK

A DRAINTUBE™ case study

Shale Fracking Impoundments

Intergeo Services uses DRAINTUBE™ geocomposite drains for water impoundment construction for shale gas drilling projects in Pennsylvania.

During construction of natural water retention basins near Lock Haven, PA, the designer had to deal with 3 specific requirements:

- **Design an efficient drainage system** under a geomembrane to allow for the maximum reduction of pressure related to the height of the water table and thus limit the formation of bubbles under the membrane during rapid drawdown from the basin,
- **Provide puncture protection** for the geomembrane,
- **Allow geoelectric leak location surveys** of the geomembrane using either the dipole or water jet method over the life of the project.

DRAINTUBE™ 400P TF1 D25 was used to efficiently provide for the drainage needs and puncture protection required to protect the geomembrane.

As for leak detection, all DRAINTUBE™ products are compatible with and allow geoelectrical techniques. DRAINTUBE™ is the only geosynthetic drainage composite that offers this benefit.

DRAINTUBE™ Installation below a geomembrane

Product: DRAINTUBE™ 400P TF1 D25

Year(s): 2010-2011

Project Owner: Anadarko

Engineer: Blazosky Associates, Inc.

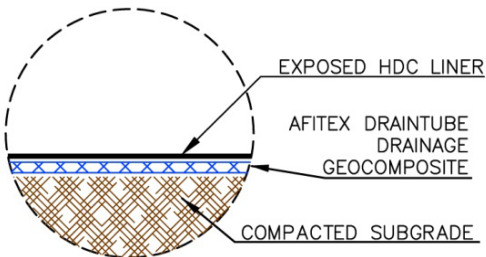
GC : Intergeo Services

Total Area:

> 200,000 m2 (> 2,000,000 sf)

Gradient: 2%

Allowed leak detection using geoelectrical methods



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Produced by:

AFITEX *Texel*
LE DRAINAGE SUR MESURE • THE DRAINAGE YOU WANT

DRAINTUBE™, the drainage YOU want!