

From: [Griswold, Jim, EMNRD](#)
To: [Bratcher, Mike, EMNRD](#)
Cc: [Dawson, Scott, EMNRD](#)
Subject: Liner variance for Lime Rock All-Thorn MWFMP
Date: Wednesday, December 03, 2014 11:05:08 AM

Mike,

We have reviewed the request by Lime Rock Resources to utilize 45-mil LLDPE-R as the primary liner for the proposed All Thorn Multi-Well Fluid Management Pit. This request is conditionally approved. Those conditions are:

1. The primary liner must be installed as recommended by the manufacturer and tested using the Electrical Leak Location Survey as recommended by Mr. Frobel in the variance request.
2. The life span of the multi-well management pit is to be no longer than three (3) years.
3. The subgrade design of earthen material beneath and surrounding the pit must be approved by a Professional Engineer.

As the variance request was based on the use of 45-mil LLDPE-R rather than 30-mil flexible PVC, I will be requesting directly from Mr. Hicks that he provide an evaluation for the record comparing 45-mil LLDPE-R to 60-mil HDPE.

Jim Griswold

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