



# Evaporation Pit Liner

## Featuring Polyshield HT™

**Project:**  
Evaporation Pit Liner

**Location:**  
Boulder, WY

**Applicator:**  
FDThomas

**System:**  
30 mil POLYSHIELD HT™  
on Amoco 2044 (Secondary Containment)  
Topcoat of 30 mil POLYSHIELD HT™  
on Amoco 2044 (Primary Containment)

**Total Area:**  
510,000 square feet

**Completion Date:**  
January 2002

**PROBLEM:**  
The newly constructed evaporation containment pits were built in nearby proximity to a group of oil fields. Evaporation pits are used as primary and secondary containment of oil field brim. In this case, they are used to facilitate proper clean-up and disposal of oily water produced by the drilling process.

**SOLUTION:**  
This large, complex project needed a dependable solution in place that would also have the ability to detect any leaks. The answer to this challenge involved utilizing a unique design with a polyethylene grid between a basecoat and topcoat of SPI's Polyshield HT™. This created primary and secondary containment layers that were divided into cells. Each cell was able to be electronically monitored for leaks that may occur between the primary and secondary linings.

Polyshield HT™ was chosen for its durability and seamless composition. The applicator sprayed a basecoat of 30 mil of Polyshield HT™ over the Amoco 2044 geo-textile fabric. This was followed by the placement of a polyethylene grid, and then a topcoat of 30 mil of Polyshield HT™ was sprayed over the Amoco 2044 geo-textile fabric.

**RESULTS:**  
The facility owner was very satisfied with the new containment system that was put into place. They now have a tough, reliable Polyurea containment liner and leak detection system in place that will last for years. Due to the success with this key project, the facility owner awarded additional project work for containing drilling slurry (sand and water) in late 2007.



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