

ACT/007/011
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FILE COPY

UNITED STATES FUEL COMPANY

HANNAH, UTAH 84527

RECEIVED November 7, 1984

Mr. Tom Munsen, Hydrologist
State of Utah
Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, Utah 84114

NOV 09 1984

**DIVISION OF OIL
GAS & MINING**

RE: NOV #84-4-8-8, 6 of 8

4068?

Dear Mr. Munsen:

Enclosed is a drawing of the discharge-filter structures United States Fuel Company intends to install as a part of the Middle Fork timber yard berm. The Gabian basket will be constructed of a heavy guage, two inch wire mesh. Basket dimensions will be nine feet long by one and a half feet high by two feet wide. Approximately eight inches of each end will be keyed into the berm and six inches of the bottom keyed into the ground below.

Filter fabric will be placed against the upstream face and beneath the ground surface to provide additional filtering capability as well as prevent water from washing around the basket. Four roof bolts will support each basket side. Six inch, subangular rock will be place in each basket as a filter medium as well as the filter fabric on the upstream side of the basket.

Two discharge structures will be located in the berms of the Middle Fork timber yard. One will be located in the stretch of berm below the lower access road and the other in the stretch of berm above the access road. The structures will be placed in a location conducive to good drainage of the yard.



A riprap apron will be installed on the downstream side of the basket, extending to the roadside ditch, as a means of erosion control. Some riprap will also be placed before the basket to prevent undercutting and erosion of the berm.

Additionally, it has been found necessary to place a low berm across the upper driveway into the timber yard in order to retain runoff within that portion of the disturbed area. The implementation of this type of structure was discussed during an onsite meeting Sept. 12, 1984 between DOGM technical staff and U.S. Fuel. The driveway berm will be high enough to keep road drainage from entering the yard and yard drainage from running into the ditch. The berm will be gentle enough so that it is not removed during snow removal activities.

The upper portion of the Middle Fork timber yard will be bermed but will not possess a discharge structure. The surface configuration of the upper pad allows yard drainage to be impounded in a small basin shaped low area. Should discharge occur in the future from this area into the roadside ditch during an event smaller than the ten year, 24 hour storm, a Gabian type discharge structure will be installed to filter drainage.

The upper cap piece storage yard (up the road from the Middle Fork timber yard) will also be bermed. It is intended to be self-containing. If drainage outflow from the yard should become a problem in the future, a discharge structure will be installed.

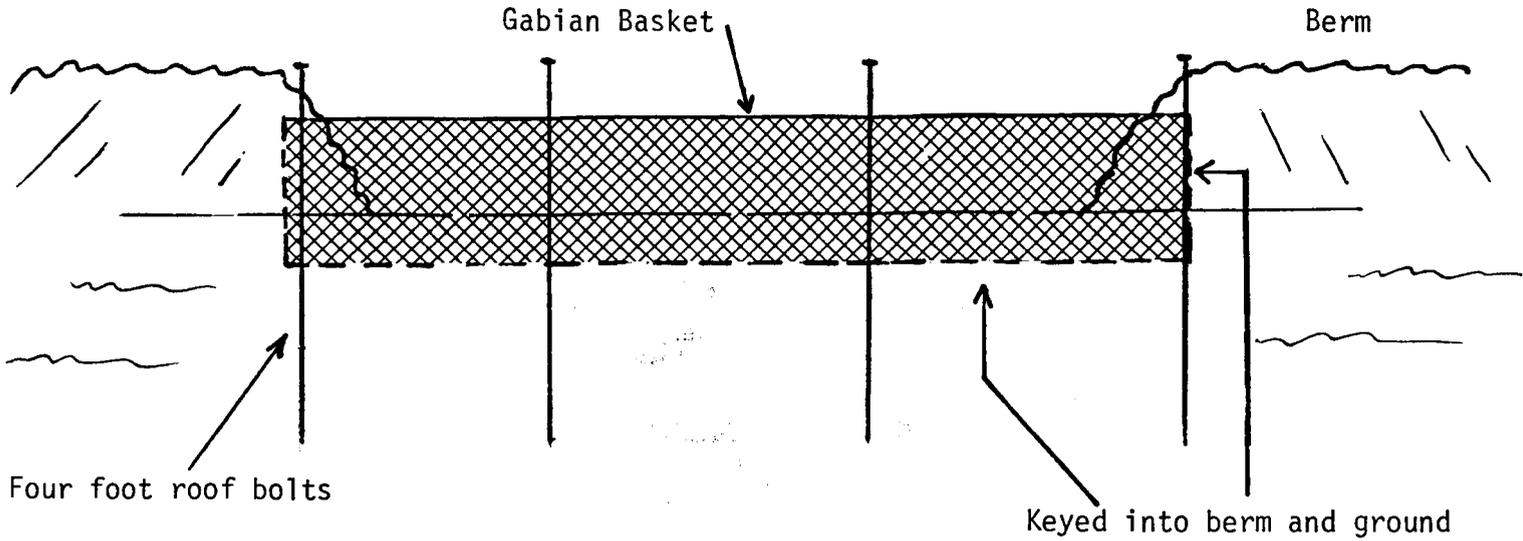
We hope this additional information will adequately supplement our previous submittals on this drainage control problem. Work had begun on this yard November 6, 1984.

Sincerely,

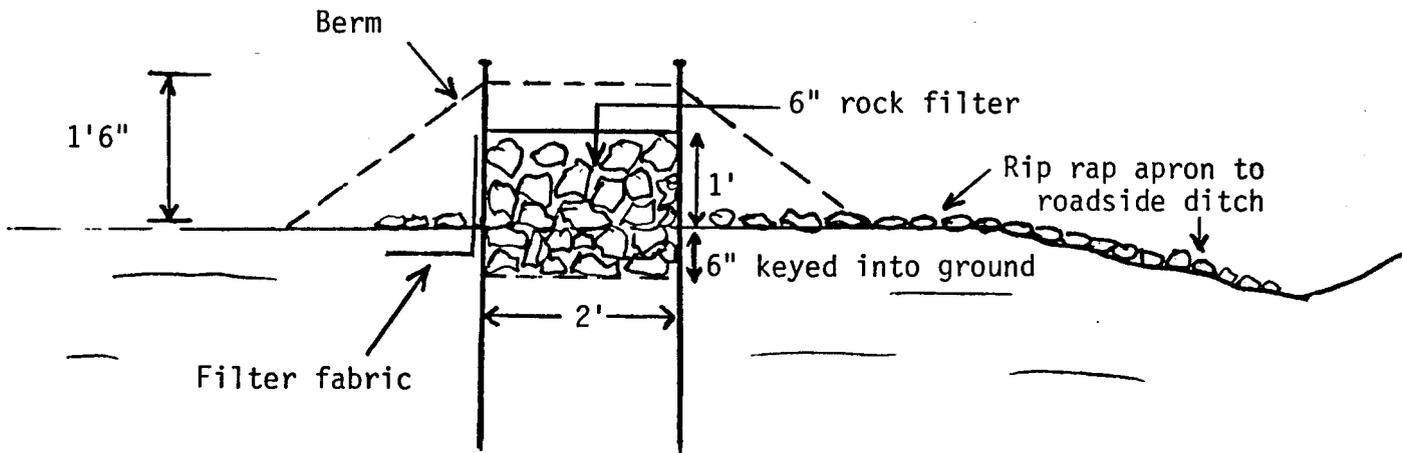
Jean Semborski

Jean Semborski
Engineer

GABIAN FILTER STRUCTURES - MIDDLE FORK TIMBER YARDS



Front View



Side View