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PROPOSED TEST PIT LOCATION AND SAMPLING PLAN

for

THE OLD SALT STORAGE AREA

along

U.S. FUELS MIDDLE FORK ROAD

Submitted to

the

UTAH DIVISION OF OIL, GAS AND MINING

by

EARTHFAX ENGINEERING, INC.

MURRAY, UTAH

SOIL SAMPLING AND LABORATORY TESTING PROGRAM

for

THE OLD SALT STORAGE AREA

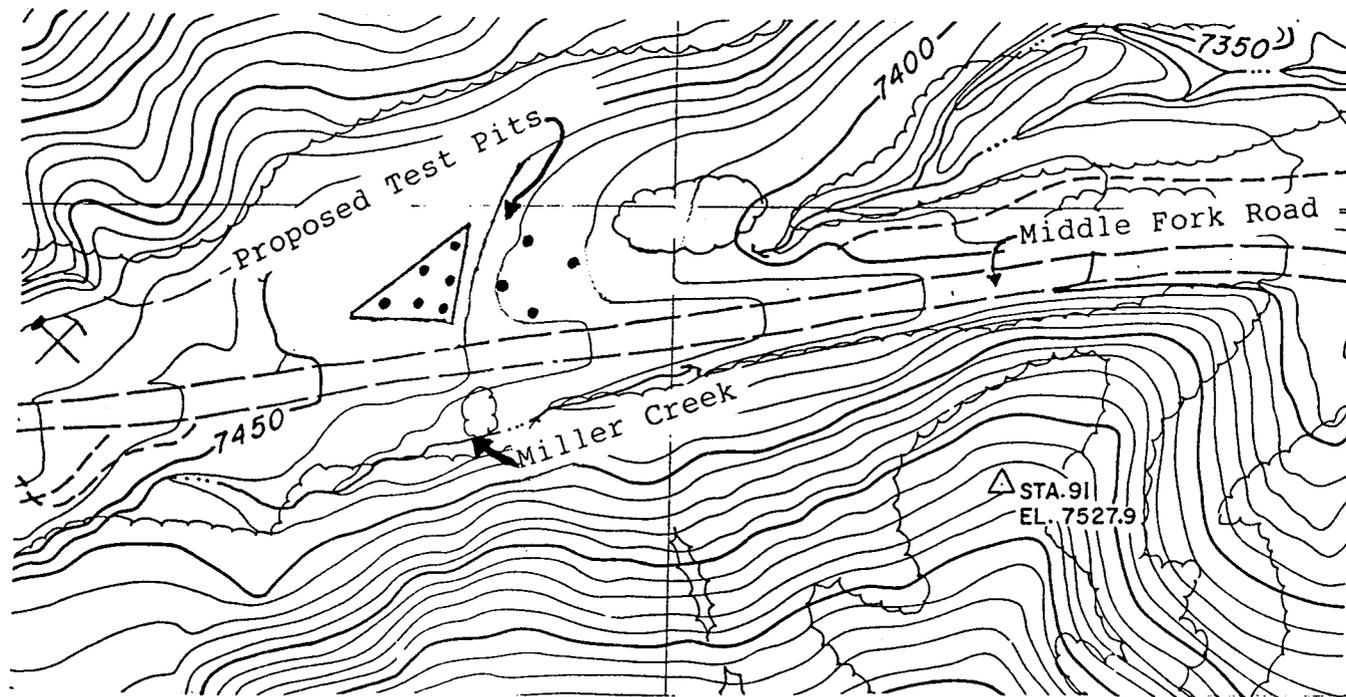
ALONG THE MIDDLE FORK ROAD

The Utah Division of Oil, Gas, and Mining has requested that U.S. Fuel determine if a saline or sodic contamination problem exists beneath or contiguous to the old salt storage pile, and, if it exists, to delineate the extent of the plume. Sampling and subsequent laboratory test results, which were previously completed in October, 1984 indicate that at least the upper two feet of the old salt storage area is potentially contaminated and will require remedial action.

A field trip was conducted on January 4, 1984 by Tom Portle, Reclamation Soils Specialist, Utah Division of Oil, Gas, and Mining, Jean Semborski, Engineer, U.S. Fuel and Randy Gainer, Principal Engineering Geologist, EarthFax Engineering, Inc. to examine the exact topographical and geomorphic location of the site and to measure the conductivity of the Middle Fork, both above and below the old salt storage area. During the field trip, it was determined that a total of ten test pits would allow for adequate representation of the area. Each pit will be sampled at the 1', 3', 5', 7', and 10' levels. Six of the test pits will be located in the old salt storage area. The four remaining test pits will be located between the storage area and the stream (Figure 1). The sampling will be done after the spring thaw but prior to May 15, 1985.

The samples will be submitted to a certified laboratory for analyses to determine the concentrations of the following parameters: Calcium, Magnesium, Sodium, Sodium Adsorption Ratio (calculated), Electrical Conductivity, and pH. The results of the laboratory analyses will be assessed, and a report, based on the results of the assessment, will be prepared and submitted on or before July 1, 1985. If the the test results and assessment indicate that a contamination plume exists beneath the storage pile or contiguous area, then the report will include the appropriate remedial action plans (The determination of the existence and extent of either a saline or sodic condition will be based on comparing the laboratory test results with the existing State of Utah's Coal Mining and Reclamation Regulations, published literature from the U.S. Department of Agriculture, and other pertinent technical references).

It would be in the best interest of both DOGM and U.S. Fuel to complete the remedial action at the old salt storage site in conjunction with the installation of the proposed sediment trap in Area C, if in fact remedial action is required. The joint construction-remedial action would decrease the amount of overall disturbance, the length of disturbance and would not require the disturbance of the recently installed sediment control facilities. Therefore, the construction, installation, and reclamation would need to be completed by October 1, 1985 to allow for adequate germination of the seeds.



SCALE
1" = 200'

PROPOSED TEST PIT LOCATION
for
SAMPLING THE OLD SALT STORAGE AREA
along
U.S. FUELS MIDDLE FORK ROAD