

ROOK'S EATHEN FILL STRUCTURE LARGEST IN STATE THIS YEAR

THIS ARTICLE FROM HARDIN SOIL CONSERVATION DISTRICT OFFICE
— FARM MAGAZINE PHOTOS—

One of the largest 8 acre area and store earthen fill structures being constructed in the state this year is being built on the Cecil Rooks farm south east of Eldora. An acre foot of water indicates one acre of water one foot deep. In the deepest area, water will be over 30 feet deep.

A series of gullies extending from the buildings on the Rooks farm north into the Rexine Beecher farm is being controlled with a 36,000 cu.yd. earthen fill dam across the 15 to 20 foot deep gully. Construction work was started in the fall of 1959 on the dam. Over 80 percent of the earth moving has now been completed. The structure is being built with equipment from Rooks Implement of Eldora.

The structure will be 40 feet high with 180 feet of 18 inch corrugated metal pipe through the fill to carry excess runoff water. In its early stages of construction, the area was excavated 19 feet below the gully bottom and filled with clay to provide a water tight structure. The clay core then extends up in the fill to the water line to reduce seepage. The structure was designed by Stanley Collins, Area Engineer with the Soil Conservation Service, Mason City, approved by Paul Jacobson, State Engineer, Des Moines.

It will eventually impound water over an

area. The structure is designed primarily as an erosion control structure with secondary benefit as a silt retention structure. The structure is designed to withstand storms that occur with in a 100 year frequency.



Cecil Rooks, owner of Rooks Implement Co., Eldora on whose property the massive earthen dam has been built.

CAL MOORE SHOWS 18" INLET AND OUTLET OVERFLOW PIPES OF 50' HIGH EATHEN DAM



Cal Moore of the Hardin County Soil Conservation Service is shown at inlet of the 18" overflow pipe which is imbedded in the massive earthen dam. The picture above shows Cal Moore inspecting the outlet of the 18" overflow pipe at the lower end of the 40 to 50 ft. high earthen dam.