

WELCOME

Rueter-Hess Reservoir Open-House Tour

August 7, 2010



SELF-GUIDED DRIVING TOUR

Welcome to Rueter-Hess Reservoir. This brochure will be your guide for the tour. During your 4.2 mile drive through this amazing structure, there are three marked points of interest and details of these points are on the inside of this brochure.

At the end of your tour, you have an option to leave the site, or park in the *designated parking area* and explore the informational booths from our partners and local governments invested in Rueter-Hess Reservoir. We hope you enjoy your tour while learning about this remarkable water management tool.

Thank you for "driving by" !

FOR YOUR SAFETY...

Please
stay in your vehicle
for the entire
duration of the self-
guided driving tour.

Parking is optional at the end of the driving tour with information booths about Rueter-Hess Reservoir and many other Town and County entities.

**STAY ON THE
DESIGNATED
ROADWAY**

**OBEY ALL SIGNS AND
TOUR ATTENDANTS**

Castle Pines North
METROPOLITAN DISTRICT



Point of Interest #2 - Emergency Spillway

The construction you see at this point is the emergency release structure for the dam. In order to prepare for the construction of the emergency spillway, the hillside before you was cut back over 400 feet. Using explosives for blasting and heavy excavation equipment, over 200,000 cubic yards of rock and earth were removed prior to beginning construction of the emergency spillway.



In the event the reservoir was full and we experienced a storm event of major proportions, water would be released through this structure, then down the emergency spillway and then onto Newlin Gulch. The structure is intended to dissipate energy from the water allowing for a controlled release of water.

STAY
INSIDE
VEHICLE
AT ALL TIMES
ON TOUR

Point of Interest #3 - Bottom of Rueter-Hess Reservoir

From here, if the reservoir was full you would be under approximately 170 feet of water.

Looking back to the north, you again see the outlet tower, and on the side of the tower you can see one of the gates.

From here you see 124 feet of the tower structure. What you do not see is that 60 feet of the tower is buried in the embankment of the dam and below that is an additional 15 feet of foundation.



At the bottom of the tower, the concrete walls are eight feet thick to compensate for the earth load as well as the pressure of the water that would be placed on the walls of the tower if the reservoir were full.



Questions? Stop by our Information Booths on your way out.

RUETER-HESS RESERVOIR



Fact Sheet

- Planning for the project started almost 30 years ago.
- Permitting of the original project (120 foot tall dam impounding 16,200 Acre feet of water) began in 1999.
- Approval of the original project was granted in 2004.
- Construction on the original project started in September 2004.
- Approval for the enlarged project 184 foot tall dam impounding 72,000 acre feet of water was granted in April of 2008.
- Construction of the enlarged project began in September of 2008.
- Completion of the project is anticipated in spring of 2012.
- By the time the project is complete:
 - 15,000,000 cubic yards of earth will have been placed in the dam.
 - 30,000 cubic yards of concrete will have been placed.
 - 5,600 tons of steel will have be used.
- The final reservoir has a capacity of 72,000 Acre feet of water which equates to 23,461,200,000 gallons of water.
- The surface area of the filled reservoir will be 1,200 Acres or 1.5 times the size of Cherry Creek Reservoir.
- The deepest point of the reservoir will be 184 feet below the surface.
- There will be over 14 miles of shoreline.