



COLORADO
Division of Water Resources
Department of Natural Resources

December 5, 2022

JAY C. DAVENPORT
C/O VARRA COMPANIES, INC.
TRANSMISSION VIA EMAIL: jaydavenport@mines.edu

**RE: COMPACTED CLAY LINER APPROVAL
DOUBLE JACK'S VARRA RESERVOIR (WDID 0504105)
HEINTZELMAN PIT, DRMS M-2009-018 (WDID 0503010)
E1/2 OF THE E1/2 OF SECTION 32, T3N, R67W
WATER DIVISION 1, WATER DISTRICT 5**

Dear Jay Davenport:

The purpose of this letter is to approve the lining of the Double Jack's Varra Reservoir (Double Jack's Reservoir). The Double Jack's Reservoir is primarily located in the E1/2 of the E1/2 of Section 32, Township 3 North, Range 67 West of the 6th P.M., and is part of the Heintzelman Gravel Pit (DRMS M-2009-018). The reservoir was lined using a compacted clay liner. This clay liner leak test commenced June 16, 2022 and concluded on September 13, 2022. Site inspection was performed by our office on August 29, 2022 to review site conditions and discuss the leak test data.

Your report dated November 3, 2022 provides the liner summary and leak test result. The test data provided indicates that the reservoir has been lined to the design standard referenced in the August 1999 State Engineer Guidelines for Lining Criteria for Gravel Pits (1999 SEO Guidelines). **Meeting the design standard requires that during reservoir operations all water inflows and outflows for the liner perimeter enclosed area be accounted for on a monthly basis.**

With this liner approval, the Double Jack's Reservoir is now classified as a lined reservoir in accordance with the 1999 SEO Guidelines. Water shall not be impounded in the reservoir except pursuant to lawful diversions allowed by statute or decree. At all other times, all inflow of water into the reservoir from any source, including precipitation and ground water inflows shall be removed to prevent illegal storage of water. Prior to ANY use of this site, the owner or operator will need to coordinate with Shera Sumerford, District 5 Water Commissioner, to review operations, measurement structures, stage-storage curves, and accounting.

Please contact me at 303-866-3581 x8246 or ioana.comanicu@state.co.us if you have any questions.

Sincerely,

Ioana Comanicu, P.E.
Water Resource Engineer

Ec: Shera Sumerford, District 5 Water Commissioner (Shera.Sumerford@state.co.us)
Louis Flink, Diversion Records Coordinator (Louis.Flink@state.co.us)
Garret Varra, Varra Companies, Inc. (gvarra@varracompanies.com)
WDID File (0504105 & 0503010)

