

GRAND COUNTY WATER CONSERVANCY DISTRICT  
GRAND COUNTY SPECIAL SERVICE DISTRICT  
SPECIAL MEETING -----

May 10, 1979

Meeting was called to order by Chairman Ken McDougald with the following Grand County Water Conservancy District members present: Bill Hines, Bob Norman, Ev Schumaker, Curt Young. Also present: David Bretzke, Executive Director; Beulah Croasmun, Assistant Secretary; Ralph Rollins and Brad Price from Rollins, Brown and Gunnell.

Special Service District members present: Ken McDougald, Dan Holyoak, Ev Schumaker, and Jim Wiseman.

Bretzke reported that he obtained a Gamma Ray Log on Well No. 1 and sent it to Carl Carpenter and Bryce Montgomery. He stated that Bryce Montgomery did not think a Neutron Log would be worthwhile. Bretzke also said that Bryce Montgomery said that the water in the gray shale formation was not likely to be of good quality or quantity. Bretzke stated that the static level of the water has raised to 32 feet from the previous 50 feet.

McDougald reported that the Water Resources Board approved a loan for 3.7 million dollars for a period of 32 years at a low interest rate. He said that the average interest rate is 3.12% and the payments begin in 1981.

Bretzke reported that a report has been received from Carl Carpenter on pumping irrigation water from the Colorado River and copies have been given to Ev Schumaker and Ken McDougald.

Bretzke reported that an application has been submitted to BLM for the easement for the pipeline, pump and well for Well No. 3. He said the application for Change of Water Rights has been filed and it will take 90 to 120 days for this to be approved by the State Engineer. This will allow the District to pump up to 3 cfs from either one or both of the Betty Schumaker Wells No. 1 and 3, not to exceed a combined total of 3 cfs.

Ralph Rollins and Brad Price gave the following report on the plans for the Mill Creek Dam and Reservoir:

Crest of Dam	Elevation	5,055'
Emergency Spillway Crest	Elevation	5,048'
Maximum Height of Dam		95'
Length of Dam		4,050'
Dam Crest Width		20'
Storage Capacity at Spillway Crest Elevation		2,750 acre-feet

The base of rock is about 5,050' and the top of the spillway is about 1½ feet below this.

The Cross Section crosses over four zones:

1. Outside Shale Material
2. Inner Zone of Impervious Material

Attendance

Well No. 1

Water Resource  
Loan

Pumping  
Irrigation  
Water from  
River

Well No. 3

Engineering  
Report on  
Mill Creek  
Dam and  
Reservoir Plan

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3. Silty Sand Material that is presently covering the reservoir basin and an additional source just north of the site.
4. Chimney Drain consists of processed material obtained from Borrow Area No. 1.

The engineers then discussed the Reservoir Blanket which consisted of: 9" Sandy Gravel, 24" Impervious Material, 6" Silty Sand; all above the natural ground.

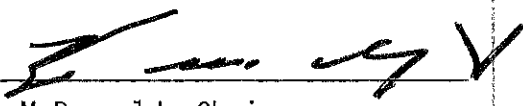
There was a long discussion about the need to cover the 25 acre exposed bedrock area. The engineers stated that they wanted to drill a few more test holes and consider creating some small check dams over the bedrock area during construction to see what the permability of the bedrock was. They stated that the problem sometimes solves itself, based on the total amount of water draining into the lower zone or that it could become a problem in that it would fill up and then move laterally under the dam; thereby possibly losing up to 20 acre-feet per day to seepage. No decision was made on the additional \$230,000 cost to blanket the additional bedrock area, but the engineers would do more study on it.

The engineers then gave a summary of Engineer's Cost Estimate to Construct the Dam and Reservoir. They estimated that there would be approximately 80 cubic yards of concrete used on the job.

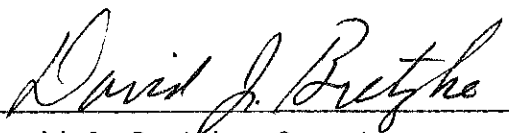
Brad Price discussed the feasibility of using a plastic liner. He said that it was unlikely that the District could obtain more than a 20-year warranty on any type of liner and that the cost to install plastic liner far exceeded the cost of using the blanket cover.

Ralph Rollins asked whether the District wanted the cost of re-seeding a 50' strip around the perimeter of the lake to be included in the engineer's estimate. Board agreed to have this done under a separate contract.

With no further business, meeting adjourned.

  
K.E. McDougald, Chairman

ATTEST:

  
David J. Bretzke, Secretary