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From: "Ware, Dennis (WC) 4737" <dware@foundationcoal.com>
To: <Jeff_McKenzie@blm.gov>, "Wayne Hedberg" <WAYNEHEDBERG@utah.gov>, "Jeffr...
Date: 4/30/2007 12:38 PM
Subject: RE: Crandall Canyon Shaft Water Pumping and Backfilling Project

CC: <Steve_Rigby@blm.gov>, <Stan_Perkes@blm.gov>, "Pete Hess" <petehess@utah...

Jeff and Wayne and Jeff,

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C/007/0035

At about 11:00 a.m. on Saturday April 21st the backfilling of the shaft was stopped as the water level in the shaft had reached a point of 1 foot below the cement color of the shaft (10 feet below the safety platform). Measurements were taken at 7:00 a.m. this morning show the solid (backfill material) to be 177 feet below the safety platform, the water level is now 13 feet below the safety platform. The water settled 3 feet from mid day Saturday to this morning at 7:00 a.m.. Currently there is 164 feet of water or 385,000 gallons sitting atop the fill material. We will now wait a few weeks for the water to settle and hopefully much of the water will be able to be discharged into Crandall Canyon; the balance will be pumped into the pond for further settling and/or evaporation.

Over the next day or two we will finish he construction of the evaporation pond and replace the chain link fence around the shaft. I will keep a close eye on the water level in the shaft as well as test the water from time to time. Before we mobilize to pump water again I will provide everyone with advance notice.

Jeff McKenzie, we need to set a time and place to discuss the bentonite placement.

Thanks again for all of your support on this project. If you need anything further please let me know.

Dennis

From: Ware, Dennis (WC) 4737
Sent: Thursday, April 26, 2007 3:45 PM
To: 'Jeff_McKenzie@blm.gov'; 'Wayne Hedberg'
Cc: 'Steve_Rigby@blm.gov'; 'Stan_Perkes@blm.gov'; 'Pete Hess'; 'Jeffrey Studenka'; Walker, Greg (CO) 7602; Greene, Johnnie (PEG) 5949
Subject: Crandall Canyon Shaft Water Pumping and Backfilling Project

Jeff and Wayne,

First, I want to thank both of you individually, as well as the BLM and the Division for your quick response and approval to move forward as we discussed by phone a few minutes ago and as I have briefly outlined below.

When we went on site at Crandall Canyon this morning about 7:00 a.m. we found that the loose material on the south side of the shaft has fallen into the shaft. Not only had this material (aprox. 10 to 15 yards) fallen into the shaft it also took out the water pump, the electrical pump cable, the well sounder and possibly some of the water pipe. It is unknown at this time if any of the pumping equipment can be salvaged. If it cannot be safely salvaged we will cut it at the surface and let it fall into the shaft. Because of the safety issues at the site we will not pump any more water at this time. When we discontinued pumping water last evening the water level was down 280 feet below the surface, therefore, there is about 150 feet of water remaining in the shaft (the water depth was originally at the 430 foot depth). As best as we can calculate, water is running into the shaft at an elevation approximately 130 feet below the surface and at a rate of 7 to 8 gallons per minute. At this inflow rate it is filling up the shaft at a rate of approximately 10,080 to 11,520 gallons or 4.3 to 4.9 feet per day. Since we will not be able to pump again without some major rework of the surface and safety platform we feel it is important to begin backfilling the shaft before the water refills the shaft again. We propose to use the material we remove from the pond which we will excavate to the west of the shaft as well as material we will haul from Hwy 6. We will backfill this fill material into the shaft up to an elevation of 130 feet below the surface or until the water column comes up to the top of the cement lined shaft (which is about 10 feet below the current surface) whichever occurs first. We will likely begin excavation of the pond and backfilling of the shaft at first light tomorrow. It will take about 1.5 to 2 days to excavate the pond and about the same amount of time to backfill the shaft to the level identified above. At this point we will shut down and wait to see how much water will settle out and can be discharged, any water that can not be discharged will be pumped into the pond for evaporation. At any rate, we will have time to talk further about how to deal with the water over the next few days or weeks. I will provide a progress report sometime tomorrow or Monday and will stay in close contact with you by phone.

As you know, Mr. Richard White of EarthFAX Engineering has designed the pond and the PE stamped design has been faxed to the Division SLC office. If the Division needs more information on the design before construction is complete please contact Richard at 801:561:1555, otherwise, we will provide an as-built when the pond is finished. It

will take about 1.5 to two days to construct the pond.

Again thank you for your continued support on this important project.

Dennis Ware

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