0029

Incoming OK 0/07/0038

From: <Steve_Rigby@blm.gov>
To: "Pam Grubaugh-Littig" <PAMGRUBAUGHLITTIG@utah.gov>
Date: 4/19/2007 2:36 PM
Subject: Re: Crandall Canyon Shaft Backfilling Project General Scope of Work
Attachments: General Scope of Work Crandall Canyon Shaft #2.doc

CC: <Jeff_McKenzie@blm.gov>, "Ware, Dennis (WC) 4737" <dware@foundationcoal....

Pam,

Dennis is on the road and he asked that I forward this to you.

Please call with any questions.

S. Rigby

"Ware, Dennis \(WC\) 4737" <dware@foundationcoal.com> 04/19/2007 11:51 AM

To <Steve_Rigby@blm.gov>, <Steve_Rigby@blm.gov>, <Jeff_McKenzie@blm.gov>

cc

Subject
Crandall Canyon Shaft Backfilling Project General Scope of Work

Gentlemen,

I have attached the General Scope of Work for the Crandall Canyon Shaft Project. Let me know if you have any questions. The well pump will be installed today. At this time it is not known if pumping will start late this afternoon or be delayed until tomorrow morning. Pumping is expected to take 5 days. Following pumping we will immediately start backfilling the shaft.

Once I have a final determination as to when water pumping will begin I will inform you.

Regards,
Dennis(See attached file: General Scope of Work Crandall Canyon Shaft #2.doc)

Crandall Canyon # 2 Shaft Project

Current Situation

The water level in the shaft is 50 feet below the surface. The fill material in the shaft is 437 feet below the surface. The depth of the water in the shaft is 387 feet and, with a diameter of 20 feet, the current volume of water in the shaft is 909,015 gallons.

Backfilling Project - General Scope of Work

1- A safety platform will be constructed over a portion of the shaft.

2- The water will be pumped from the shaft with a 40 hp submersible well pump that will be lowered to a depth of 10 feet above the fill bottom. The pumping rate will not exceed 225,000 gallons per day. The discharge line will be placed in the Crandall Canyon drainage and a flow meter will be attached to the discharge line. Water samples will be taken in compliance with the discharge permit. During the pumping process a camera will be lowered into the shaft to determine if there is water inflow. If water inflow exists it is estimated to be inflowing somewhere between a depth of 70 to 130 feet below the current surface level.

3- Immediately after the water has been pumped from the shaft, Contractor will begin backfilling the shaft with the following materials:

   a. First, approximately 95 tons of dry cement will be mixed with equal parts of Contractor supplied 3" to 4" drain rock and dumped into the shaft.

   b. Secondly, approximately 3,700 yards of fill material from the State Road pile on HWY 6 near the mouth of Crandall Canyon will be placed in the Shaft until it is filled to point 20 feet below the level of water inflow into the shaft or, if there is no water inflow, at a point 120 feet below the surface elevation.

c. Thirdly, 1,160 yards of bentonite will be placed in the shaft on top of the fill material for a distance of 100 feet starting at a point 20 feet below the level of water inflow into the shaft or, if there is no water inflow at a point 120 feet below the surface elevation.

d. Lastly, additional fill material from the State Road pile on HWY 6 near the mouth of Crandall Canyon will be placed atop the bentonite and brought up to the surface elevation and mounded a minimum of 5 feet above the surface elevation

4- The surface of the area disturbed during the winter of 2006 and any additional area disturbed by this pumping and backfilling project will be reclaimed consistent with past reclamation practices including seeding.

5- The Crandall Canyon access road and road drainages from the reclaimed site down to the point at which the Crandall Canyon road intersects with HWY 6 will be repaired.

The chain link fence will be left in place to protect wildlife and the public.