



STATE OF
COLORADO

Cazier - DNR, Tim <tim.cazier@state.co.us>

RE: SGVLF CQA Report - WE 1/25/14

1 message

Comer, Timm <TComer@anglogoldashantina.com>
To: "Cazier - DNR, Tim" <tim.cazier@state.co.us>

Fri, Feb 7, 2014 at 1:09 PM

Tim,

Her is Memo to address your question.

Timm

From: Cazier - DNR, Tim [mailto:tim.cazier@state.co.us]
Sent: Friday, February 07, 2014 9:21 AM
To: Comer, Timm
Subject: SGVLF CQA Report - WE 1/25/14

Timm,

In an effort to try to keep on top of the weekly reports, I thought an email after I review each weekly submittal might be appropriate.

The DRMS received the subject report on 2/6/14.

Good news, I found **Soil Liner Fill sample #80S**. So you don't need to inquire any further on that one.

Underground working #6320. This is the 20x8 foot shaft first mentioned in the week ending January 11, 2014. It appears to be more than 1,000 feet deep and the weekly reports indicate it was fill to within 50 ft of the top with 60-inch minus rock, then with the specifications coarse shaft backfill (12-inch minus). the total volume of backfill was estimated to be 6,355 CY. Given the depth, volume of large size rock, lack of compaction during placement, and the large 20 x 8 surface opening; the potential for significant settling appears to be quite likely. As such, the DRMS is more concerned with the remediation efforts on this shaft and the potential impact on liner integrity in the future. I'd like to get some thoughts/rationale from the engineer in charge on the anticipated effectiveness for this particular remediation

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6320-CCV_MLE2_UGVLF-revision 2- 1-17-13.pdf

25K

Memorandum



To: Ron Roberts – CC&V

Scott Redabaugh – CC&V

From: Michael Nelson, P.E. - AMEC

Bobby Redd, E.I. - AMEC

Date: January 15, 2014

Re: Ames Working ID #6320, Historic Mine Working #5035 – Revised Remediation Plans

Introduction

This memo presents a revision to the recommended remediation plan for the working #6320. Drawing A60 presents a plan map of the known underground workings within the VLF Earthwork project limits. Please note that the information presented on this figure is based on available plan maps and surface reconnaissance conducted during the Squaw Gulch VLF fieldwork. Other workings may be uncovered through the course of construction and are referred to as unknown.

Approximately 5000 cubic yards of Coarse Shaft Backfill material has been placed into the vertical mine shaft opening. This operation has taken 2 ½ days and there has been no noticeable progress to the remediation. An alternative method has been developed and is explained below.

Remediation Plans

Revised remediation of this working should adhere to the following steps:

- 1.) The main portion of the shaft shall be backfilled with large rocks, ranging from 60" minus material consisting of the larger diameter materials when possible until the working has bridged or a noticeable bottom has been established.
- 2.) After the bottom of the working is established, remediation shall revert back to the original remediation plan.

Questions concerning this should be directed to the undersigned or via email to robert.redd@amec.com or michael.nelson@amec.com or direct delivery to the AMEC field office.

A handwritten signature in black ink, appearing to read "B. Redd".

Bobby Redd, E.I.
Civil Engineering
719.689.2986

A handwritten signature in black ink, appearing to read "Michael E. Nelson".

Michael E. Nelson, P.E.
Project Engineer
303.630.0782

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