

**Subject:** [Fwd: [Fwd: Weekly Drill Summary]]

**Date:** Thu, 01 Aug 2002 10:15:17 -0600

**From:** john young <john\_young@nmenv.state.nm.us>

**Organization:** New Mexico Environment Department-Hazardous Waste Bureau

**To:** david cobrain <david\_cobrain@nmenv.state.nm.us>, Carolyn Cooper <carolyn\_cooper@nmenv.state.nm.us>

fyi...do we want to pursue Michael's recommendations?

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**Subject: Re:** [Fwd: Weekly Drill Summary]

**Date:** Thu, 01 Aug 2002 09:16:54 -0600

**From:** Michael Dale <mdale@lanl.gov>

**To:** john young <john\_young@nmenv.state.nm.us>

**CC:** stephen Yanicak <syanicak@lanl.gov>

They probably encountered Cerro Toledo at beneath the alluvium (hit boulders at 60' bgs, sounds like CT - stratigraphically, it makes sense) which may be sucking up and moving the water in an unknown direction and gradient. In terms of no intermediate perched water: I would suspect that if the video log and the geophysics don't show any water then it must not be present. I would get them to monitor water levels in the open borehole in order to check if perched water is moving downward and stacking up. They need to get a coring rig that is "MADE" for coring these rock types. Maybe get Techlaw to do some quick and dirty research on the issue, i.e., get them to call the top 4 or 5 coring/environmental water well drillers to find out what type of coring rig is the best for this type of drilling environment. I was told that the coring rig that they are using now is "not" the best to use given the drilling environment up here.

At 08:29 8/1/2002 -0600, you wrote:

perched water at 18 feet only at R-32...Michael, I would have expected at least one intermediate zone...what are your thoughts other than mud use diminishing the sensitivity?

Return-Path: <spearson@lanl.gov>

Received: from nessus.nmenv.state.nm.us (nessus.nmenv.state.nm.us [172.17.5.13])

by nmenv.state.nm.us (8.9.3/8.9.3) with SMTP id HAA00902

for <john\_young@nmenv.state.nm.us>; Wed, 31 Jul 2002 07:29:06 -0600 (MDT)

Posted-Date: Wed, 31 Jul 2002 07:29:06 -0600 (MDT)

Received-Date: Wed, 31 Jul 2002 07:29:06 -0600 (MDT)

Received: FROM venus BY nessus.nmenv.state.nm.us ; Wed Jul 31 07:29:24 2002 -0700

Received: from Unknown [172.18.1.2] by venus - SuperScout Email Filter ; Wednesday, 31 July 2002, 07:29:03

Received: from smap.nmenv.state.nm.us(164.64.146.8) by primal.nmenv.state.nm.us via csmmap id 402; Wed, 31 Jul 2002 14:28:55 +0100 (BST)

Received: (from uucp@localhost)

by smap.nmenv.state.nm.us (8.10.0/8.10.0) id g6VEbWA26466

for <john\_young@nmenv.state.nm.us>; Wed, 31 Jul 2002 08:37:32 -0600 (MDT)

Received: from er.lanl.gov(128.165.52.78) by smap.nmenv.state.nm.us via smap (V2.1)

id xma026464; Wed, 31 Jul 02 08:37:26 -0600

Received: from pn998585.lanl.gov ([128.165.52.73]) by em-er2.lanl.gov with SMTP (Microsoft Exchange Internet Mail Service Version 5.5.2653.13)

id 3XKGNBL; Wed, 31 Jul 2002 07:28:55 -0600

Message-ID: <5.0.1.4.2.20020731073239.01961cb0@er.lanl.gov>

X-Sender: 153122@er.lanl.gov

X-Mailer: QUALCOMM Windows Eudora Version 5.0.1

Date: Wed, 31 Jul 2002 07:34:25 -0600



5297

To: john young <john\_young@nmenv.state.nm.us>  
From: Steve Pearson <spearson@lanl.gov>  
Subject: Re: Weekly Drill Summary  
In-Reply-To: <3D456B73.1BFF5BBA@nmenv.state.nm.us>  
References: <5.0.1.4.2.20020726145420.01a2f0b0@er.lanl.gov>  
Mime-Version: 1.0  
Content-Type: multipart/alternative;  
boundary="====\_470434421==\_ .ALT"  
X-Mozilla-Status2: 00000000

John, alluvial water was encountered at approx. 18 feet. No other water was detected during coring or drilling. R-32 is at 808 feet and geophysical logging will be taking place today.

At 10:21 AM 7/29/2002 -0600, you wrote:

Steve,

Have you encountered any perched water, alluvial or otherwise?

Steve Pearson wrote:

Weekly Summary for Saturday July 20, 2002 to Friday July 26, 2002

R-14 - Started well development operations; wire brushed inside of well casing; surged and bailed well. Removed a total of 5300 gallons of water since start up of development. Turbidity, initially over 1000 NTUs is presently averaging 150 - 200 NTUs.

R-32 - Ran conductor casing to 60' bgs. Attempted to trip drill string from casing but drill bit would not pass through the casing. Pulled casing and drill string; casing was cut and separated at approx. 42' due to rotation through the alluvium. Abandoned boring, offset and redrill to 55' bgs; install and cement conductor casing; drill from 55' to 363' bgs with 16-inch tricone bit and foam.

R-20 - Pad complete. Awaiting mobilization of Stewart Brothers Drilling.

R-23 - Pad complete.

R-16 - Delayed awaiting signed access agreement from Los Alamos County. Agreement received on Thursday. Relocate utilities on Friday due to expiration of original dig permit.

Plans for Upcoming Week (July 27 to August 2)

Complete well development and testing at R-14; begin discharge of drill fluids per NOI. Continue drilling at R-32. Mobilize Stewart Brothers to R-20 and begin coring operations. Start and complete pad construction at R-16.

**NOTE** : Same as last week, traffic controls are in place on each side of R-20, 32 and 23. Be careful of your approach and departure from these sites.