

From: [VanHeerden, Arnand](#)
To: [Eustice, Chris, EMNRD](#); [Stuart Butzier \(sbutzier@modrall.com\)](mailto:sbutzier@modrall.com)
Subject: FW: BOW drilling.
Date: Wednesday, November 27, 2013 9:24:23 PM
Attachments: [Picture8.jpg](#)
[Picture1.jpg](#)
[Picture2.jpg](#)
[Picture3.jpg](#)
[Picture4.jpg](#)
[Picture5.jpg](#)
[Picture6.jpg](#)
[Picture7.jpg](#)

Hi Chris and Stuart,

Further to my email below from this morning, I managed to find time today to quickly download some of my pictures. As mentioned...all holes have been completed and plugged and equipment moved to the staging area for final de-mobilization by truck. I have attached a couple of pictures of one of our drill sites to show drilling activities and conditions, as well as two pictures taken this morning to show the reclaimed site with plugged collar (I've included a couple of shots of unhappy snow covered cacti as well) . You'll notice that there are still sample bags on site. This is because of the weather the wet samples has not dried sufficiently for splitting and sampling. We will leave them on site over the weekend to dry some more and will be back in on Tuesday to finalize sampling. Once sampling is completed, all sample bags and material will be removed from site by the 10th of December, but I'll confirm this as soon as we are done.

I'll be traveling back to South Africa for 2 weeks on the 13th of December and will work on a reclamation report as soon as I get back in January.

Thank you for all the support for this project and please let me know if there is anything else required from my side at this stage.

Kind Regards,
Arnand

Arnand van Heerden, PGeo | Principal Geologist – Qualified Person
Phone: 720.357.9075 | Direct: 720-407-1576 | Fax: 303.217.5705
arnand.vanheerden@tetrattech.com

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From: "VanHeerden, Arnand" <Arnand.VanHeerden@tetrattech.com>
Date: November 27, 2013 at 6:32:33 AM MST
To: "Eustice, Chris, EMNRD" <chris.eustice@state.nm.us>
Subject: Re: BOW drilling.

Hi Chris and Stuart,

Sorry for the late response....got back from the field very late last night.

I am happy to say that we have completed and plugged all 10 of the planned confirmatory holes. None if the holes went down to the planned depth of 250 feet...deepest hole were 225 feet.

The cumulative depth drilled for all 10 holes are 1,780 feet (might change by a couple of feet once I do final log).All 10 holes are back filled and plugged as per regulation.

Doing some sampling and final clean up today before the drill crew de- mobilize.

The rig and backhoe was walked back to the staging area and will be trucked out on Saturday.

Regards,
Arnand

Sent from my iPhone

On Nov 26, 2013, at 7:40 AM, "Eustice, Chris, EMNRD" <chris.eustice@state.nm.us> wrote:

Perfect. Please keep MMD informed via email. Arnand's two emails (below) together will suffice and satisfy the administrative record. Thanks Stuart and Arnand.

How many holes have now been drilled, and how many plugged as of 11/26?

From: VanHeerden, Arnand [<mailto:Arnand.VanHeerden@tetrattech.com>]
Sent: Monday, November 25, 2013 11:13 PM
To: Eustice, Chris, EMNRD; Stuart R. Butzier; Shepherd, Holland, EMNRD
Subject: RE: BOW drilling.

Hi Chris and Stuart,

The plugging of our BOW RC holes are conducted by backfilling the holes with bentonite clay, followed by a cement plug up to about 2 feet from the surface. The final 2 feet is backfilled with natural rock material and sand from the surrounding drill site.

We have completed 2 more holes today (holes 5 and 6).

Kind Regards,
Arnand

Arnand van Heerden, PGeo | Principal Geologist – Qualified Person
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From: Eustice, Chris, EMNRD [<mailto:chris.eustice@state.nm.us>]
Sent: Monday, November 25, 2013 10:58 AM
To: Stuart R. Butzier; Shepherd, Holland, EMNRD
Cc: VanHeerden, Arnand
Subject: RE: BOW drilling.

Stuart and Arnand,

It would be most helpful if Arnand could include a [simple statement](#) describing how the plugging of the drill hole was accomplished, just for the record.

Chris Eustice
(505) 476-3438

From: Stuart R. Butzier [<mailto:sbutzier@modrall.com>]
Sent: Friday, November 22, 2013 11:02 PM
To: Eustice, Chris, EMNRD; Shepherd, Holland, EMNRD
Cc: Arnand.VanHeerden@tetrattech.com
Subject: Fwd: BOW drilling.

Gentlemen:

Please see Arnand van Heerden's confirmation below, and let me know if this form of confirmation regarding completion of drilling phases will suffice as satisfaction of the notice requirements of the BOW Corporation's modified permit.

Thanks,

Stuart Butzier

Sent from my Verizon Wireless 4G LTE Smartphone

----- Original message -----

From: "VanHeerden, Arnand"

<Arnand.VanHeerden@tetrattech.com>

Date: 11/22/2013 10:20 PM (GMT-07:00)

To: "Stuart R. Butzier" <sbutzier@modrall.com>

Cc: "Christina C. Sheehan" <ccs@modrall.com>

Subject: BOW drilling.

Hi Stuart,

As discussed yesterday, this email serves as a notification that the first 2 drill holes on the BOW permit has been fully completed. As per all 10 holes planned, these holes were drilled on historical drill sites, which required minimal to no site preparation for this drilling campaign. Backfill and plugging activities for these holes are in place.

Kind Regards,

Arnand

Arnand van Heerden, PGeo | Principal Geologist – Qualified Person

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