

Bratcher, Mike, EMNRD

From: Natalie Gladden <ngladden@diversifiedfsi.com>
Sent: Monday, June 09, 2014 12:50 PM
To: Bratcher, Mike, EMNRD
Cc: Wall, Fred; Michael Patterson
Subject: FW: JL Keel B #30 Remediation Plan as submitted

Importance: High

Mike,

This morning Jennifer Van Curen approved the work plan that was submitted on behalf of DFSI as indicated in her email below. The leak occurred in the pasture area far from the JL Keel B #30 well pad. The closest well pad to this site is the JL Keel A #23, which is approximately 250' from the release area. I have projected that to complete the dig and haul options as listed would cost Linn Energy approximately \$498k to complete, this is without expansion on the sidewalls. The projection for the deep bury is approximately \$195k. The shortest distance would be more beneficial both for Linn and the environment, less movement of the contamination. If you can, please call me tomorrow at the cell phone listed below.

Hope you had a great vacation.

Thank you in advance for your time in this matter.

Natalie Gladden

*Environmental Director
DFSI Environmental Services
Cell: 575-602-1786
Office: 575-964-8394
Fax: 575-964-8396
Email: ngladden@diversifiedfsi.com*

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From: Van Curen, Jennifer [mailto:jvancure@blm.gov]
Sent: Monday, June 09, 2014 8:33 AM
To: Natalie Gladden
Cc: Mike Bratcher; Wall, Fred
Subject: Re: JL Keel B #30 Remediation Plan as submitted

Natalie,

Either option can be approved by the BLM. If option 2 is approved by the OCD, the area for the deep bury will need to be at a well pad. So, a portion of pad can be peeled back for the deep bury to be on a permitted space. There will need to be a sign to show that there is a deep bury (prevent trenching or digging) and at time of plugging the well, a permanent marker will need to

show legals of deep bury. Deep bury will need to be 4' below normal grade, so be sure that if there is slope, it is accounted for in the deep bury.

If option 1 is utilized, this area is not in timing but in habitat potential area. There will need to be 1-2' of caliche on top of liner and compacted just in case shinnery does move in. This will assist the root system to move across into the sandier soils and away from liner. Key liner at least 2' down around contaminants to prevent leaching across.

As always, I recommend looking for wells for downsize in area that will have clean material for the 1' caliche back fill. This will aid with material and hauling.

If you have any questions please let me know.

JENNIFER E VAN CUREN
ENVIRONMENTAL PROTECTION SPECIALIST
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"There are known knowns. These are things we know that we know. There are known unknowns. That is to say, there are things that we know we don't know." Jim Perry

On Fri, Jun 6, 2014 at 4:55 PM, Natalie Gladden <ngladden@diversifiedfsi.com> wrote:

All,

Attached you will find the Remediation Plan for the Linn Energy JL Keel B #30. In this plan there are two Options to choose from, please concur if approved which Option you would like to be done.

Thanks,

Natalie Gladden
Environmental Director
DFSI Environmental Services
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Your message is ready to be sent with the following file or link attachments:

JL Keel B #30 Remediation Plan as submitted

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