

From: [Wayne Bankert](#)
To: [Canfield, Chris](#); [Robert Hartman](#)
Cc: [Christiansen, Julia](#); [Edward Fancher](#); [Alan Kraus](#); [Stuart Hall](#)
Subject: Vega Pad 4 Spill Up Date (Tracking No. 2231453)
Date: Friday, January 04, 2013 11:49:58 AM

All,

Here is an update of Piceance Energy's Produced Water (Dump Line) spill on the Vega Pad 4:

Location Id: 334454

Location: NESW Sec. 35, T9S R93W

Piceance continued to excavate and remove soils over the holidays to determine the extent of the spill.

We were fairly confident we had the boundary identified and had Olson and Associates go up on Thursday January 3rd for

Additional soil sampling. In the meantime, we were continuing to investigate toward the tanks when we discovered what appeared to be an old spill or something to that nature under the tanks and containment ring. We have ceased excavating right now and are going to bring a Geo-probe or auger to core some holes on location and also at the toe of the fill slope to determine the extent. This will be less invasive for now, and will hopefully be faster in determining the extent. We have dismantled the containment ring and are in the process of moving the tanks out of the way to allow for the coring.

The Geo-Probe will be coming from Denver next week and hopefully we will have it on location by next Thursday. From my understanding it is a hydraulic ram that pushes into the ground up to 40' and can also core at an angle. Our plan is to push a snow road around the toe, not disturbing any of the soil to allow for access. We will let it freeze for a day or so just in case the weather warms up enough to thaw the soil. Then core and sample several holes around the toe based on the original drainage trend from the topo map which looks to be the SE corner of the pad.

Once we determine the extent of the spill, I will have Olson help me to prepare a Form 27 remediation plan. Right now, it would be premature to submit one without the areal extent.

We are keeping the landowner up to date on our work on the pad and he has given us permission to work off the pad around the toe of the fill.

Thanks

Wayne P. Bankert

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