

Bratcher, Mike, EMNRD

From: Bratcher, Mike, EMNRD
Sent: Tuesday, July 03, 2012 3:33 PM
To: Dade, Randy, EMNRD; Inge, Richard, EMNRD
Subject: Linn Max Friess MA 1 injection well

Terry Gregston w/BLM called today to inquire if OCD had been notified of a release/problem with Linn Operating's Max Friess MA # 1 injection well (30-015-05459). She advised that on 3/28/12, BLM had observed a leak at the well head. On 6/8/12, they noted that fluids had re-surfaced at the wellhead, and on 6/25/12 noted the leak was "ongoing". BLM had Linn obtain a sample of the water being injected and a sample of the water leaking at the well head. Several of the constituents tested for were higher in the water leaking out than what is being injected, particularly chloride levels. The water being injected tested @ 34,000 mg/L (chlorides), while the water leaking out tested @ 219,000 mg/L.

A Bradenhead test done on 4/30/12 noted that the wellhead was inaccessible due to an excavation around the wellhead. I would guess they were digging out what BLM had found on 3/28. I would think if they were digging it out, they had stopped whatever was leaking, but who knows. If they did stop it, its back.

Based on the elevated chloride levels in the water leaking out, BLM is concerned that they may have a leak up the backside of the casing and are, in effect, solution mining the salt zone. BLM engineers have been made aware of the situation and are looking into it. Terry indicated that they would keep OCD apprised of what they find out and asked that we do the same for BLM.

Apache has permitted an SWD near this well and shows salt zone @ 670' – 1600'

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