

Rose-Coss, Dylan H, EMNRD

From: Kaitlyn A. Luck <KALuck@hollandhart.com>
Sent: Tuesday, March 10, 2020 2:21 PM
To: Hearings, OCD, EMNRD; Rose-Coss, Dylan H, EMNRD; Murphy, Kathleen A, EMNRD; Goetze, Phillip, EMNRD
Cc: Adam Rankin; Michael Feldewert
Subject: [EXT] Case No. 21130 - Texland's Knowles Garrett Waterflood Unit (Murphy #1 SWD)

Examiners,

We're writing to provide an explanation of the water compatibility analysis found in **Texland's Exhibit 5 (C-108)**, at page 25.

San Andres & Drinkard Water Compatibility Analysis - Scaling Tendency Chart Overview

This chart shows both the scaling tendencies and the potential amount of scale that could form with commingling two waters. The scaling index (left vertical axis) are the log of the scaling ratio - the ratio of the amount of scale present divided by the theoretical amount the brine could hold while in equilibrium. A scaling index of 0 means the minerals in the brine are saturated (holds the exact amount of minerals for equilibrium). A scaling index of 1 means the brine is 10X saturated while an index of <0 means the brine is undersaturated. For brines to be incompatible, the scaling index needs to be higher on the mixture than for either brine individually.

Please let us know if the Division has any further follow up questions for Texland related to this exhibit or any others. Thank you for your time and attention to the presentation at hearing on March 5, 2020.

Best,

Kaitlyn

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