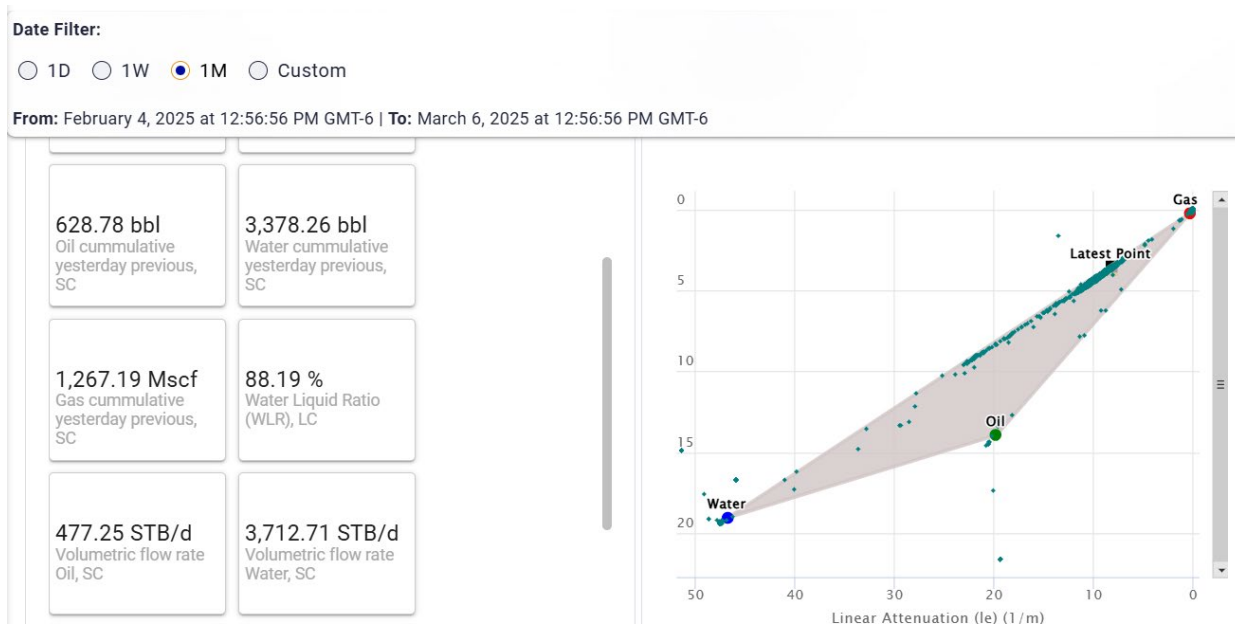


From: Nate Ferrara
To: Seth Arnaud; Wrinkle, Justin, EMNRD; McClure, Dean, EMNRD; Powell, Brandon, EMNRD; Justin Bolding; Michael Schwarz; JaRae Nichols; Ocean Munds-Dry; Amanda Rebol; Brett Garza; Bertha Nefe
Subject: [EXTERNAL] RE: Multiphase Flow Meter | Civitas Pilot Data | NMOCD
Date: Thursday, March 6, 2025 11:59:13 AM
Attachments: image001.png

Some people who received this message don't often get email from nferrara@civiresources.com. [Learn why this is important](#)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Here is the plot of a Holly well with one month of data. The drift is visible as the operating point has moved from left to right.



From: Seth Arnaud <sarnaud@civiresources.com>

Sent: Monday, March 3, 2025 1:30 PM

To: justin.wrinkle@emnrd.nm.gov; McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Justin Bolding <jbolding@civiresources.com>; Michael Schwarz <mschwarz@civiresources.com>; JaRae Nichols <jnichols@civiresources.com>; Nate Ferrara <nferrara@civiresources.com>; Ocean Munds-Dry <omundsdry@civiresources.com>; Amanda Rebol <arebol@civiresources.com>; Brett Garza <bgarza@civiresources.com>; Bertha Nefe <bnefe@civiresources.com>

Subject: RE: Multiphase Flow Meter | Civitas Pilot Data | NMOCD

Good Afternoon Justin & Dean,

Do you gents have any additional of questions for clarification based on the CIVI provided pilot data or does my list from the previous email below capture all of you guys concerns?

@Nate Ferrara, @JaRae Nichols

- When do you think we can provide NMOCD data on their request(s) below:
 - CIVI to provide a MPFM accuracy data (Holly CTB example) on how changes in water properties/volumes affect accuracy of multiphase meters during flowback
 - CIVI to provide an example of operating point drift and subsequent operational alert/notification

Thanks,
 Seth

From: Seth Arnaud

Sent: Tuesday, February 25, 2025 4:42 PM

To: justin.wrinkle@emnrd.nm.gov; McClure, Dean, EMNRD <Dean.McClure@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>; Justin Bolding <jbolding@civiresources.com>; Michael Schwarz <mschwarz@civiresources.com>; JaRae Nichols <jnichols@civiresources.com>; Nate Ferrara <nferrara@civiresources.com>; Ocean Munds-Dry <omundsdry@civiresources.com>; Amanda Rebol <arebol@civiresources.com>; Brett Garza <bgarza@civiresources.com>; Bertha Nefe <bnefe@civiresources.com>

Subject: RE: Multiphase Flow Meter | Civitas Pilot Data | NMOCD

Team,

Thanks for meeting earlier, see the answered questions in green below. Civi will provide feedback/data on the yellow questions below.

Answered Questions:

1. Civitas AL-5-4-3-1BH – DJ Pilot May Variance
 - a. I have discussed with the CIVI DJ Basin team and the reason for May Variance was 2-fold
 - i. 1AH got frac'd into
 - ii. The test separators were not functioning properly and experienced water carryover and shipped water through the oil Coriolis meter

1. Once the separator was corrected, the accuracy of the test got better over time
1. What is DPV
 - a. Per my discussion this is Differential Pressure across the Venturi
2. When there is a drift in MPFM calibration, how do we back allocate to the wells where the calibration error occurred
 - a. Treat like faulty test separator for well allocation
 - i. Put wells into common allocation device i.e., MPFM
 - ii. Default back to the allocation factor where the last valid test occurred

CIVI to Provide Data:

1. How much of a change in water properties can impact multiphase meters accuracy
 - a. CIVI to provide data based on recent flowbacks (Holly CTB)
2. Provide NMOCD example of operating point drift and notification
 - a. CIVI to provide data

Thanks,
Seth

-----Original Appointment-----

From: Seth Arnaud

Sent: Thursday, January 23, 2025 10:26 AM

To: Seth Arnaud; justin.wrinkle@emnrd.nm.gov; McClure, Dean, EMNRD; Powell, Brandon, EMNRD; Justin Bolding; Michael Schwarz; JaRae Nichols; Nate Ferrara; Ocean Munds-Dry; Amanda Rebol; Brett Garza; Bertha Nefe

Subject: Multiphase Flow Meter | Civitas Pilot Data | NMOCD

When: Tuesday, February 25, 2025 3:30 PM-4:00 PM (UTC-06:00) Central Time (US & Canada).

Where: Microsoft Teams Meeting

Justin and Team,

Let's get together and discuss the pilot data provided by Civitas.

Let me know if this time/date works, if not, we can shift accordingly.

Thanks,
Seth

Microsoft Teams [Need help?](#)

[Join the meeting now](#)

Meeting ID: 215 659 912 788

Passcode: ex3Wb9wZ

For organizers: [Meeting options](#)

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 496889

CONDITIONS

Operator: Civitas Permian Operating, LLC 555 17th Street Denver, CO 80202	OGRID: 332195
	Action Number: 496889
	Action Type: [IM-SD] Admin Order Support Doc (ENG) (IM-AAO)

CONDITIONS

Created By	Condition	Condition Date
dmcclure	None	8/18/2025