

From: [Bob Koehler - DNR](#)
To: ["Kane Allen"; Stephen Wolfe - DNR](#)
Cc: ["Diane Overbey"](#)
Subject: RE: Big Horn SWD 1-17D - Jackson Co., Colorado
Date: Monday, September 23, 2019 9:05:00 AM
Attachments: [image004.png](#)

Kane,

Sandridge has permission to resume injection in the Entrada Formation in the Big Horn SWD 1-17D.

Conditions of Approval:

1. The maximum daily injection rate is 10,000 barrels per day.
2. The maximum surface injection pressure is 800 psi.
3. The well must pass an MIT by October 2, 2019 or be shut in until it passes an MIT.

Sincerely,

Robert P. (Bob) Koehler, PhD.
UIC Lead – Geology Advisor

Phone: 303-894-2100 x5147
Email: Bob.Koehler@state.co.us



From: Kane Allen <kallen@sandridgeenergy.com>
Sent: Monday, September 23, 2019 8:09 AM
To: bob.koehler@state.co.us; Stephen.wolfe@state.co.us
Cc: Diane Overbey <doverbey@sandridgeenergy.com>
Subject: Big Horn SWD 1-17D - Jackson Co., Colorado

Bob / Stephen,

We were able to achieve a successful squeeze on the Frontier formation this weekend (four squeezes, 910sx 1.16yld 15.8ppg Class G CMT). The squeeze was tested multiple times to 1,000psi for 15min and only had 15-30psi of leakoff using a quartz gauge. The well is buttoned back up and we are ready to start injecting water back into the Entrada, but we need approval from you to start. We have a form 42 filed, but may not be able to get a state representative to witness the MIT until later this week. Are you ok with us starting injection back on the Big Horn SWD 1-17D while we wait on the state witnessed MIT.

Emily is on vacation and our completion consultant was going to reach out to another field rep to

see if he can come up to witness the MIT, but it will most likely be later this week before we can get someone out (Emily back from vacation this Thursday). Thanks for your help. Let me know if you have any questions.

Thanks,

Kane Allen

Production Engineering

Office: (405) 429-5835

Cell: (406) 208-6463

kallen@sandridgeenergy.com

