

From: [Gary Dilay](#)
To: [Reservoir Containment](#)
Subject: FW: CIWH and jetting
Date: Thursday, May 14, 2015 2:45:58 PM
Attachments: [GeoConvention_Invited_2015_3 \(3\).pdf](#)

From: Mike Carlson [mailto:appliedreservoir@lightspeed.ca]
Sent: Thursday, May 14, 2015 2:29 PM
To: Gary Dilay
Subject: CIWH and jetting

Gary,

Thought you might find this interesting. Check out the WAHA modelling on page 23. The high pressure fluid moving back on forth would likely cause the slots to be "sandblasted" open. The wellhead failure comes later with the sand entrained in the fluids. Note that the liners are usually run in stable open holes. They are typically not cemented. Most people believe the formation will collapse with production onto the liner. (Which I think makes sense). The high pressure spikes will push the sand off the slots and the drops cause fluid and sand to re-enter the well. The process is repetitive. I have been told it only takes about 15 minutes to jet a well.

Of course there may be other theories. However the recent Devon presentation at Slugging it Out did not propose any underlying mechanism. The WAHA run was set up with approximate conditions from Jackfish based on in-situ progress reports.

Cheers,
Mike

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