Ask Echometer Online Session – July 22, 2020

# Liquid Level Workshop Hands on Workbook


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|---|---|
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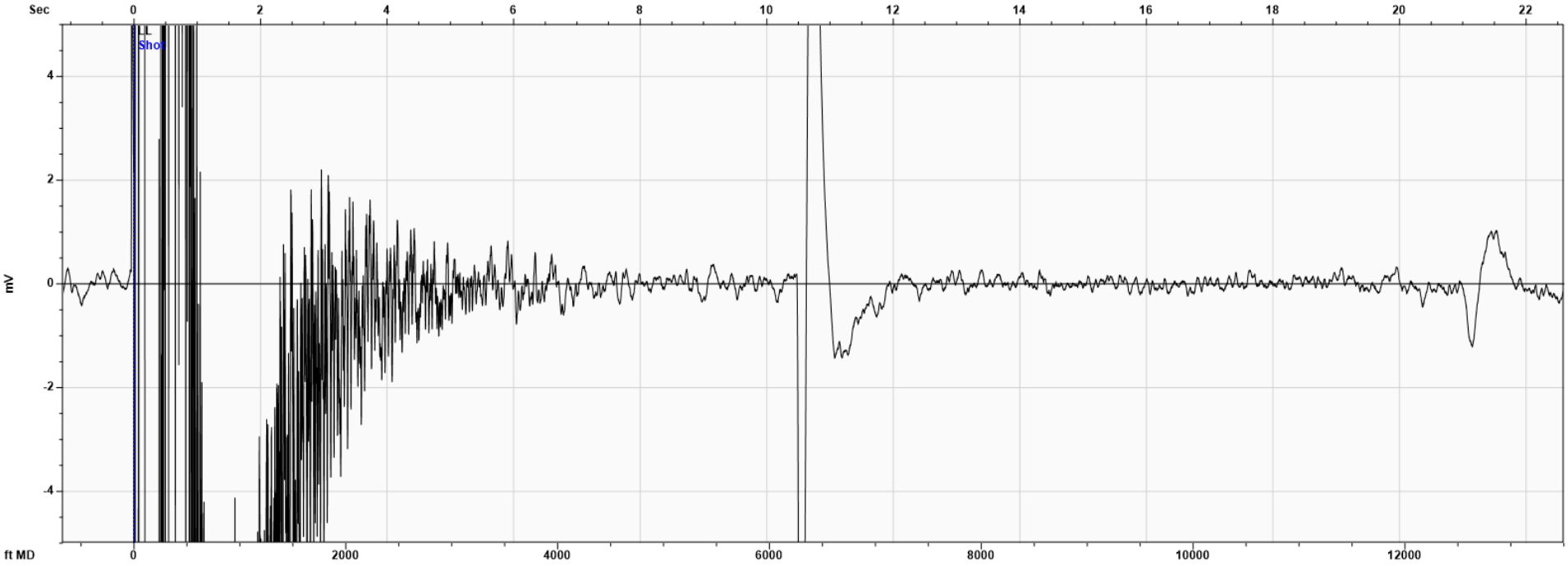
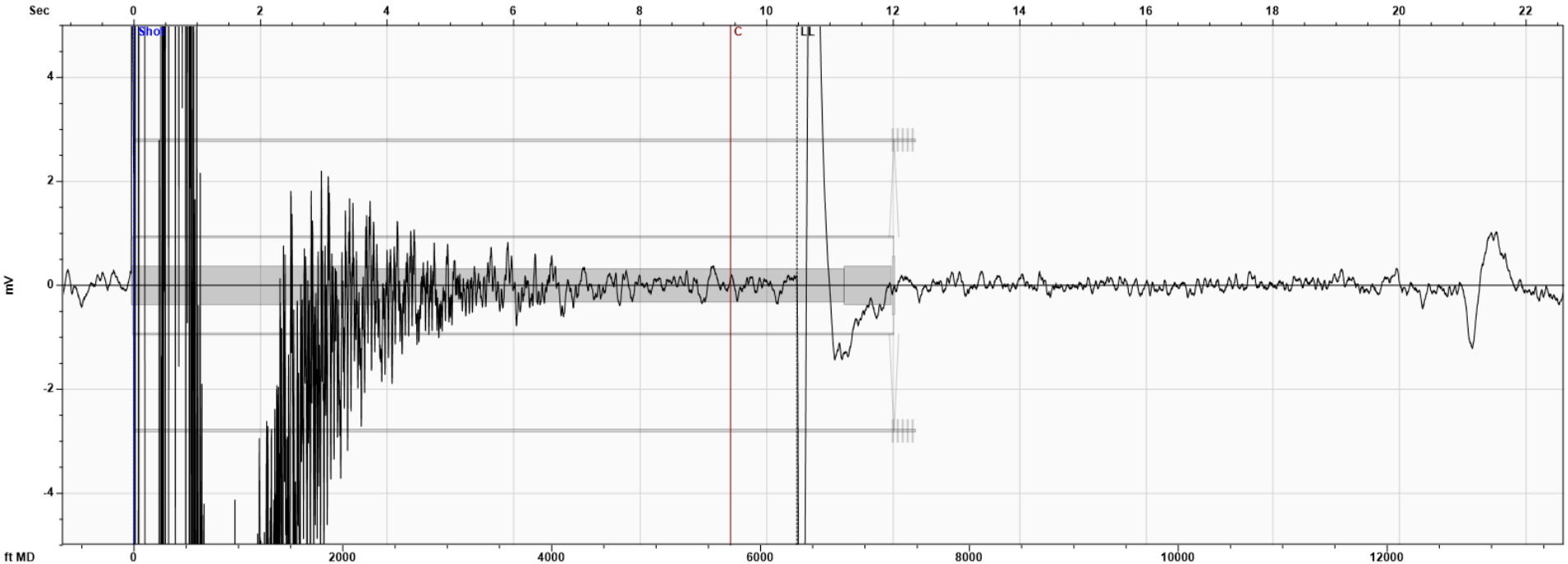
(((ECHOMETER)))

# 1Q – Where is the Liquid Level?

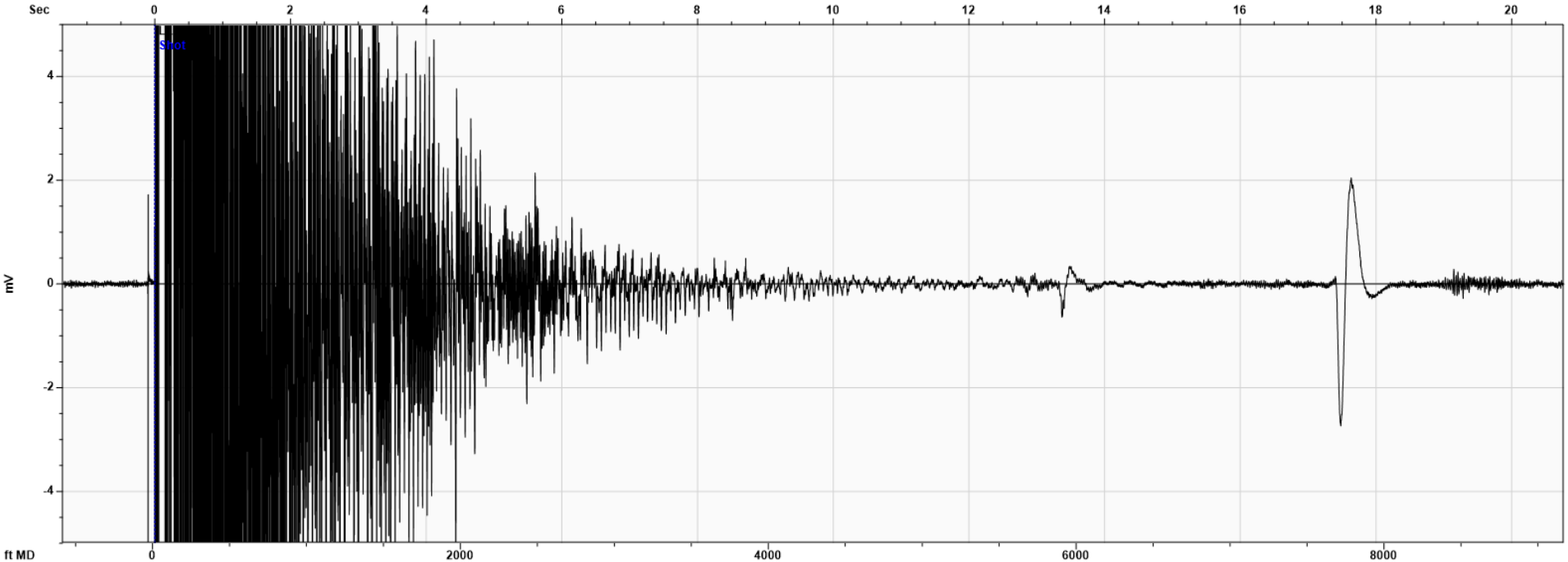


# 1A– The LL is at _____ sec.



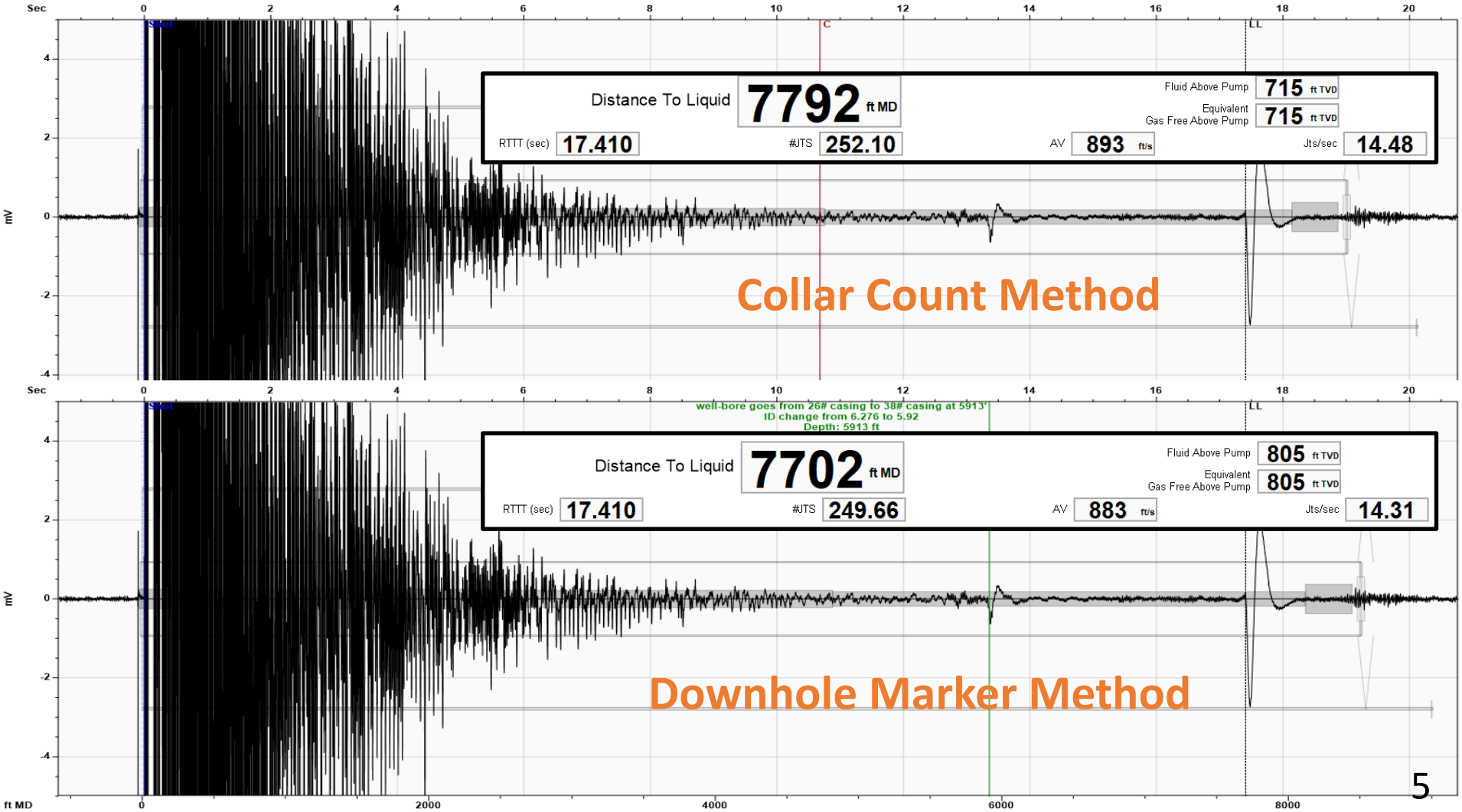

Identifying repeats and time intervals will help verify the liquid level location as well as other anomalies occurring on the shot trace.

# 2Q – Which Depth Determination method should you choose?




Hint: Choosing the CC or Marker closest to the LL results the most accurate depth calculation.

# 2A – The _____ method results in the most accurate LL depth.



# 2A – Accuracy also depends on information entered in the Well File.

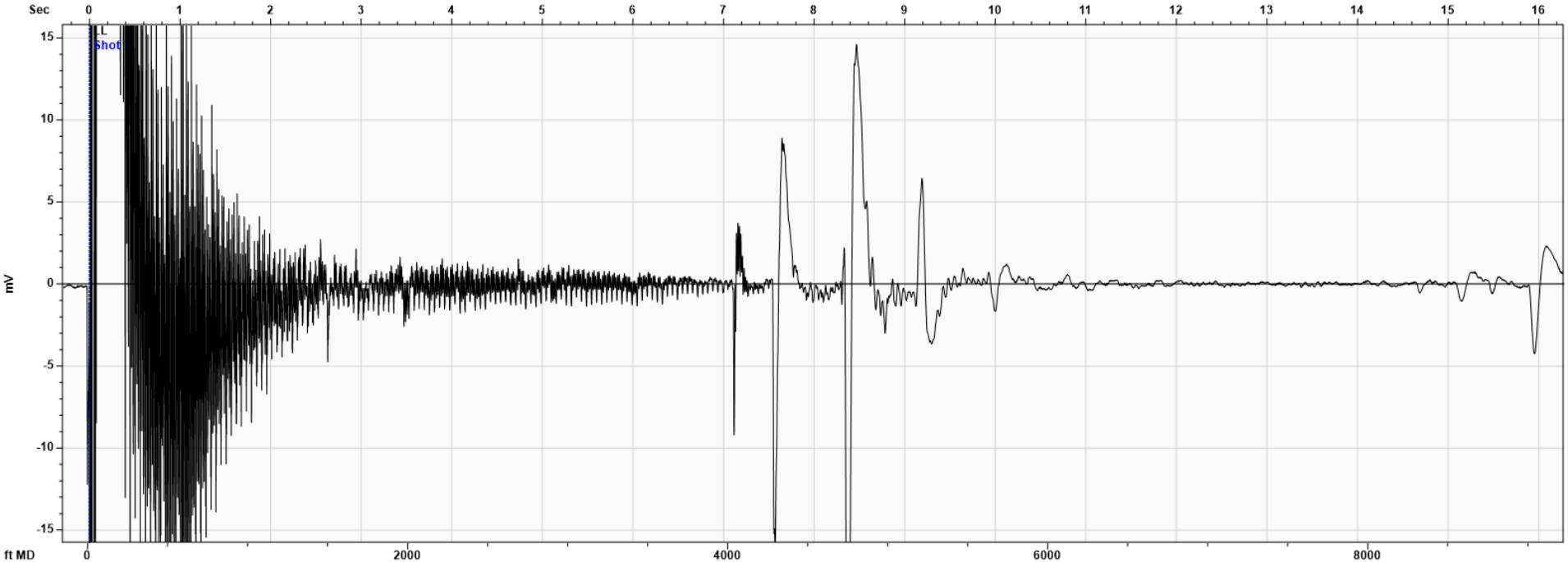
Collar Count

- Average Joint Length
- Check that collars are selected correctly by the software.

Depth Determination

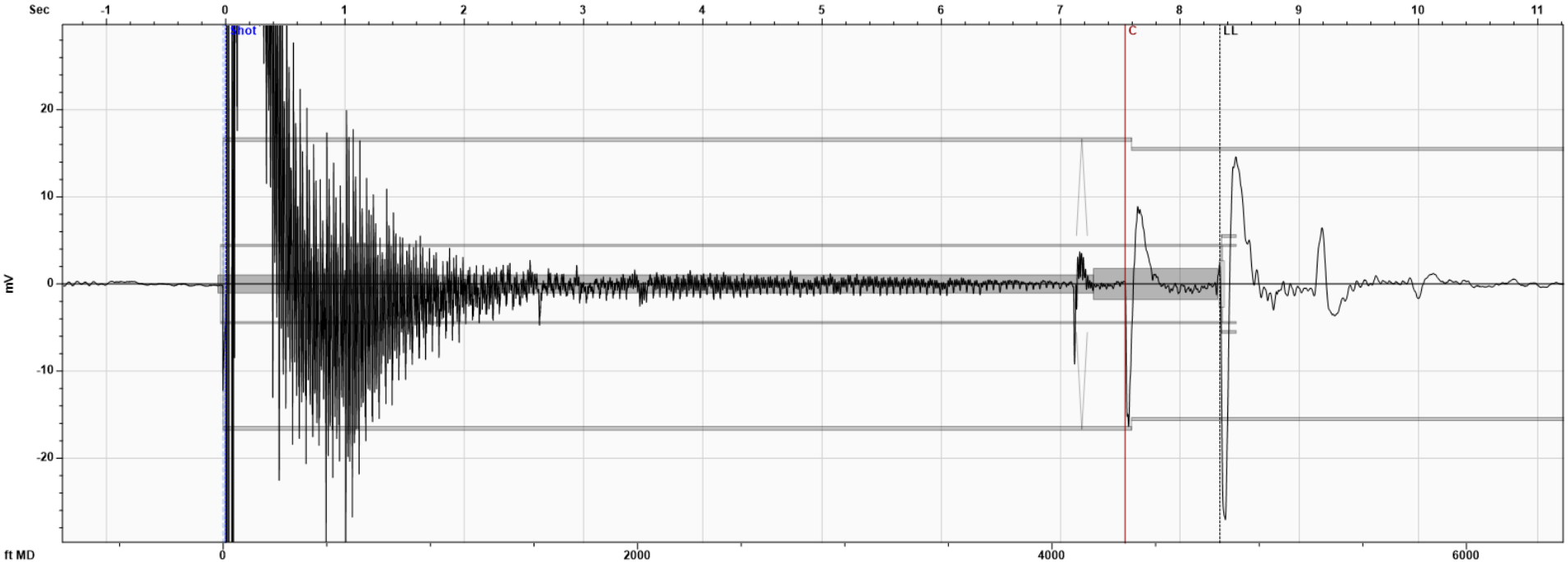
- Accurate Wellbore Schematic
- Choose the correct reflection to line up with the marker.

# 3Q – Where is the Liquid Level?



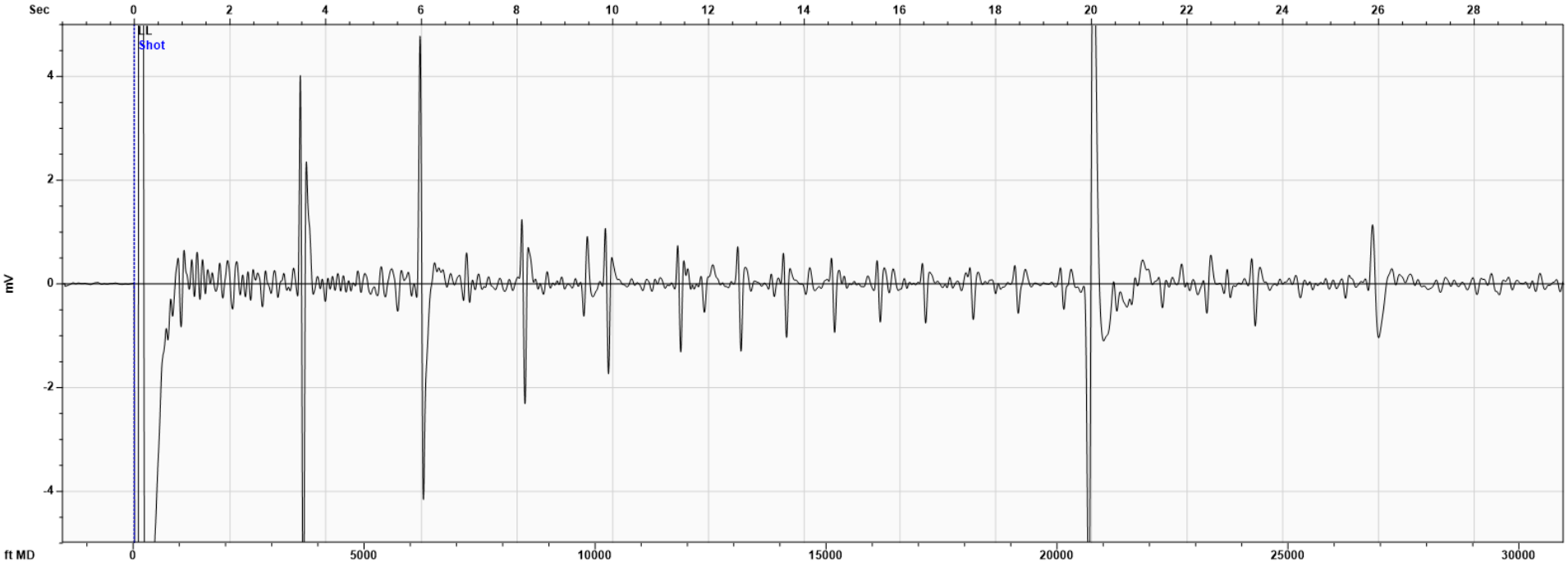

An accurate Wellbore Schematic is a must!

# 3A – The LL is at _____ sec.

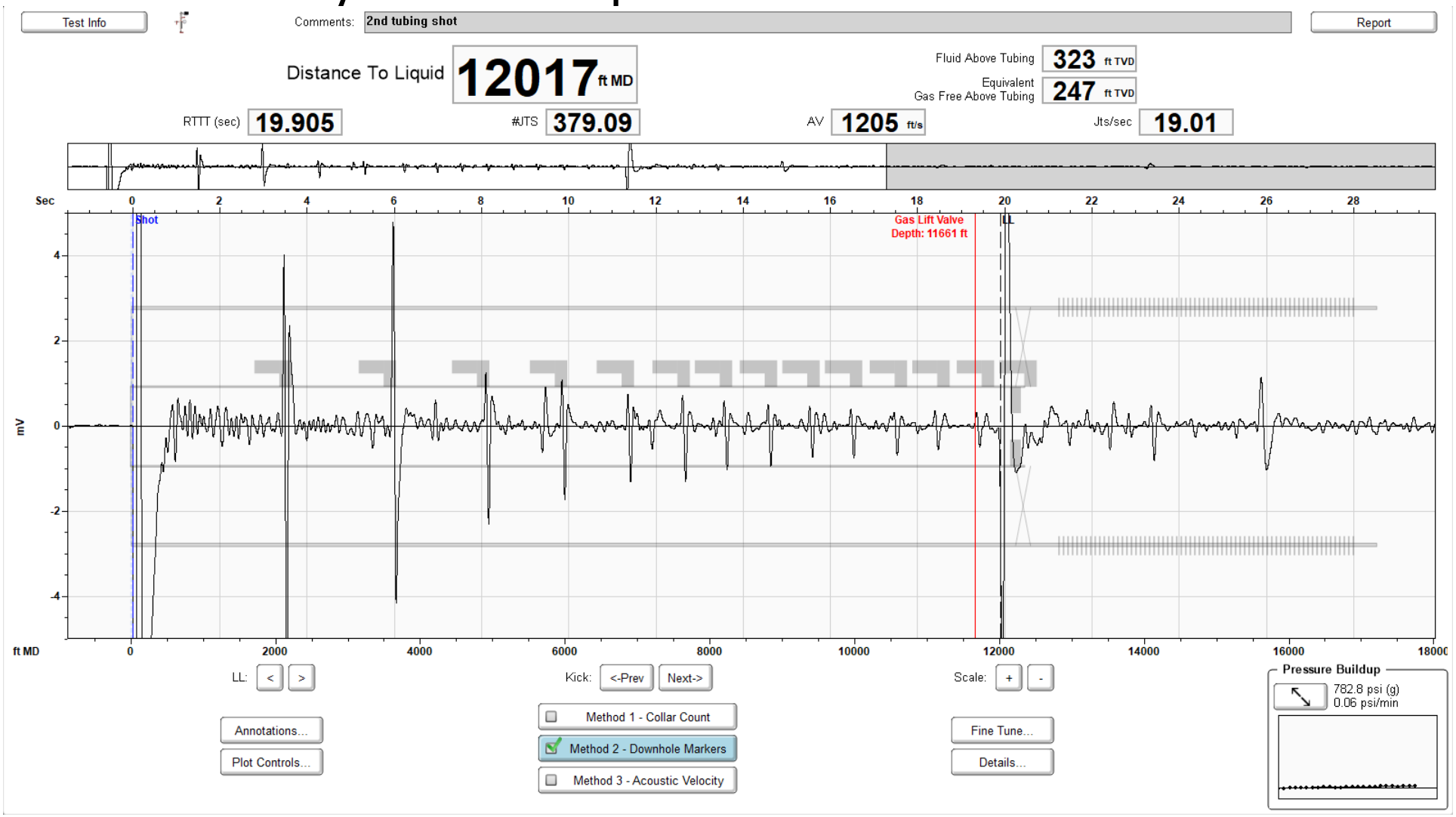



An accurate Wellbore Schematic is a must!

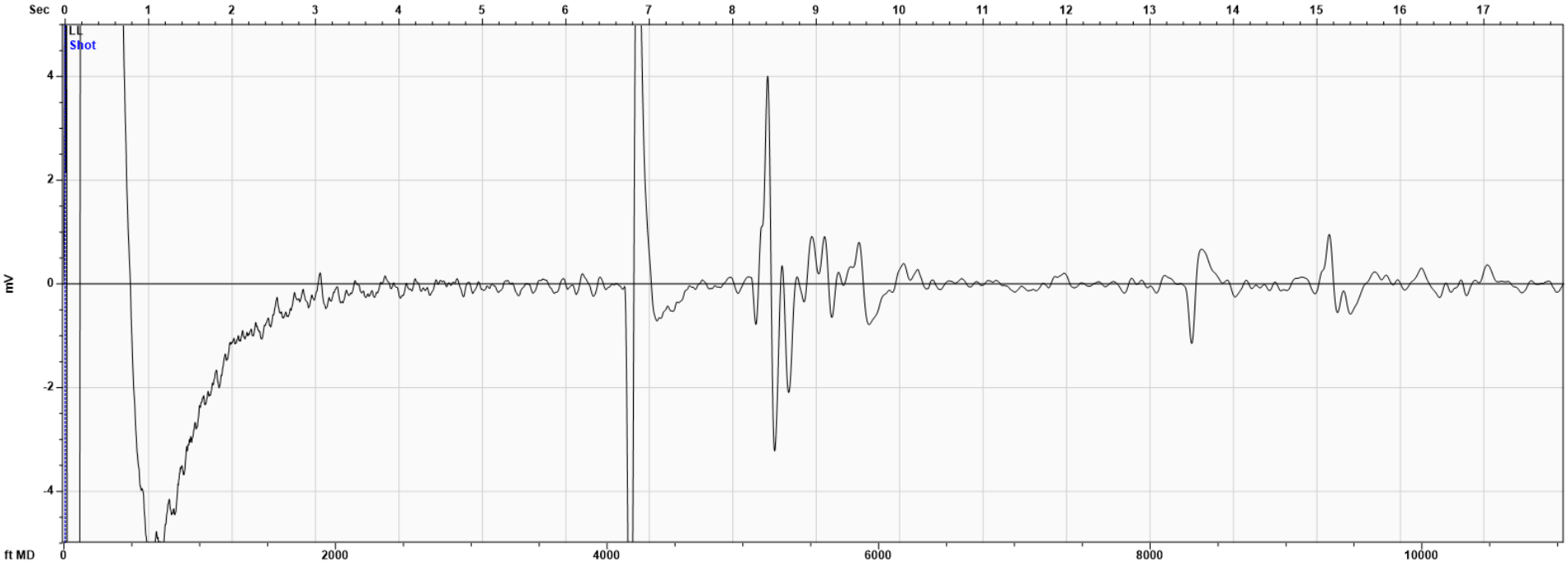
# 4Q – Which Downhole Marker should you choose?



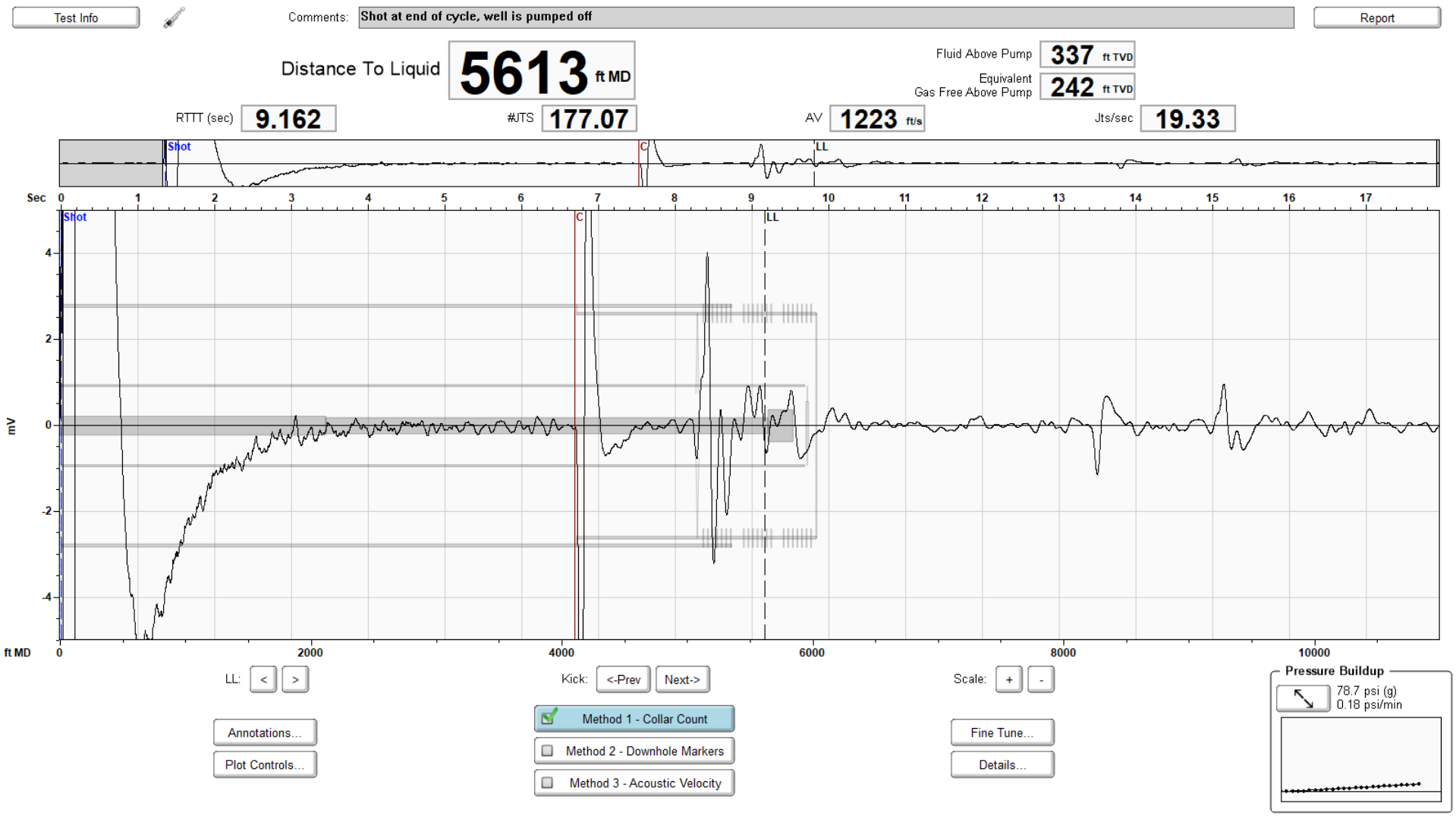
# 4A – Choose the Gaslift valve that is _____ to the LL. Observing the Acoustic Velocity will help.



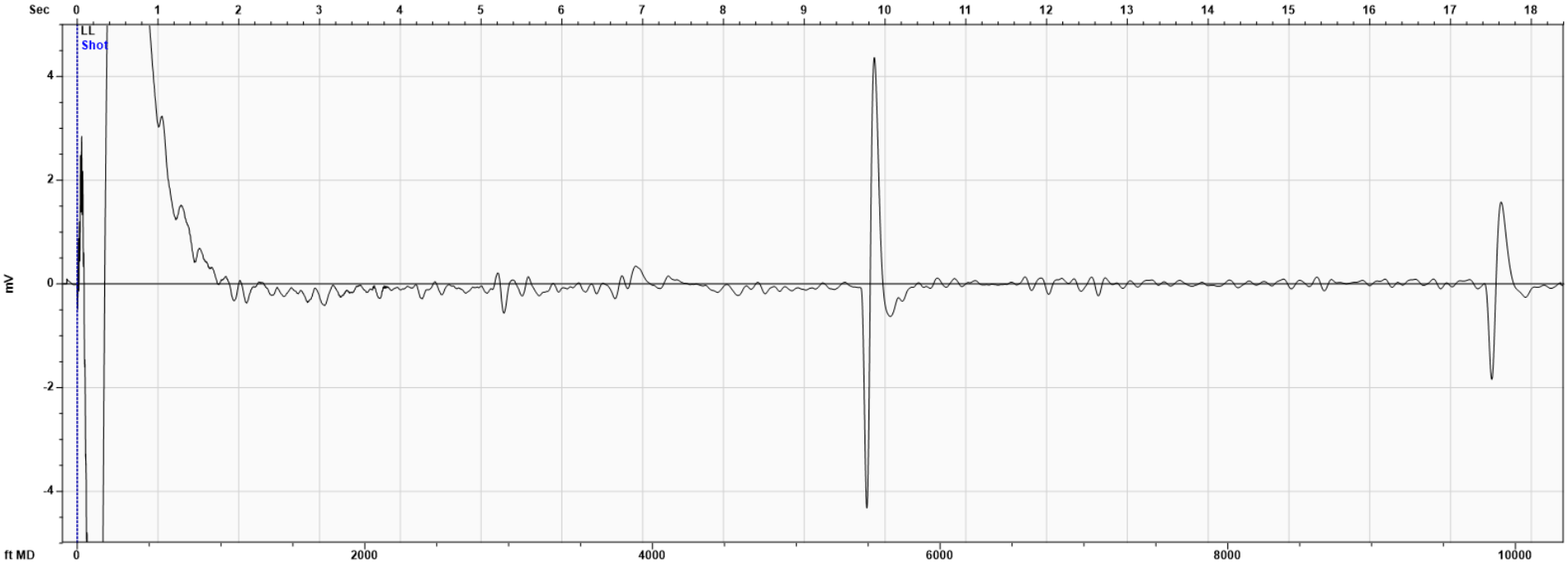
# 5Q – Where is the Liquid Level?



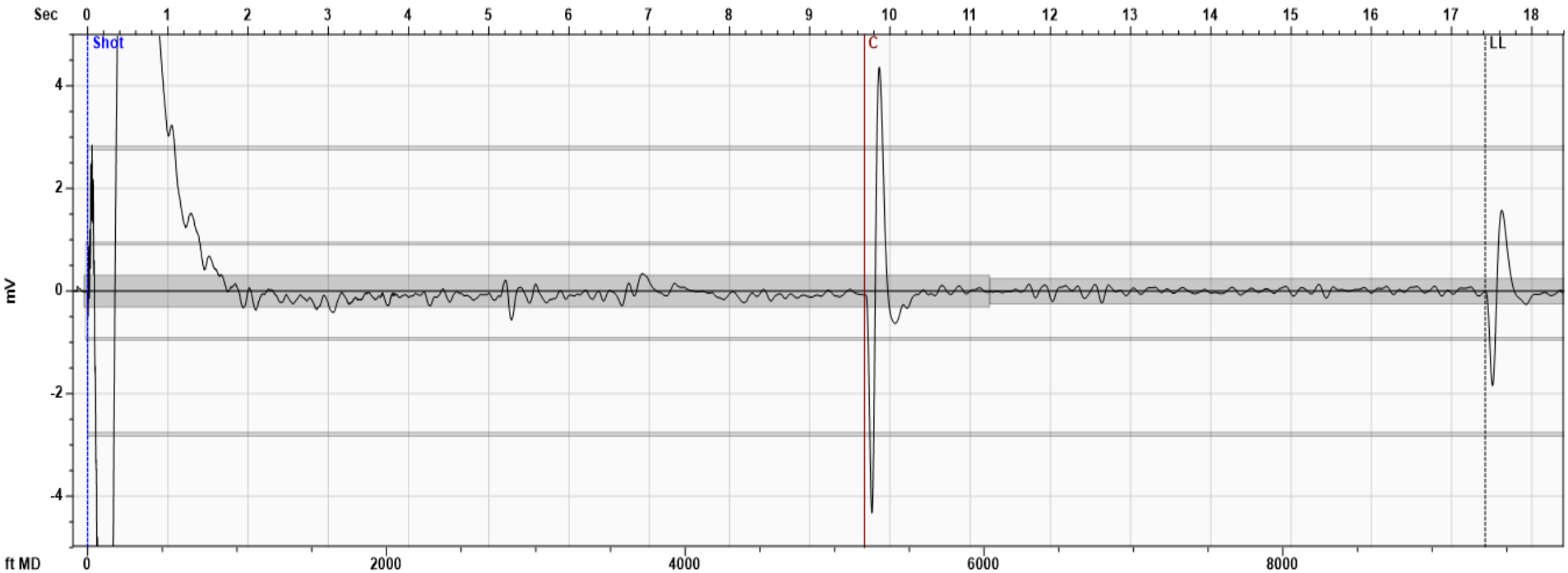
# 5A – The LL is at _____.



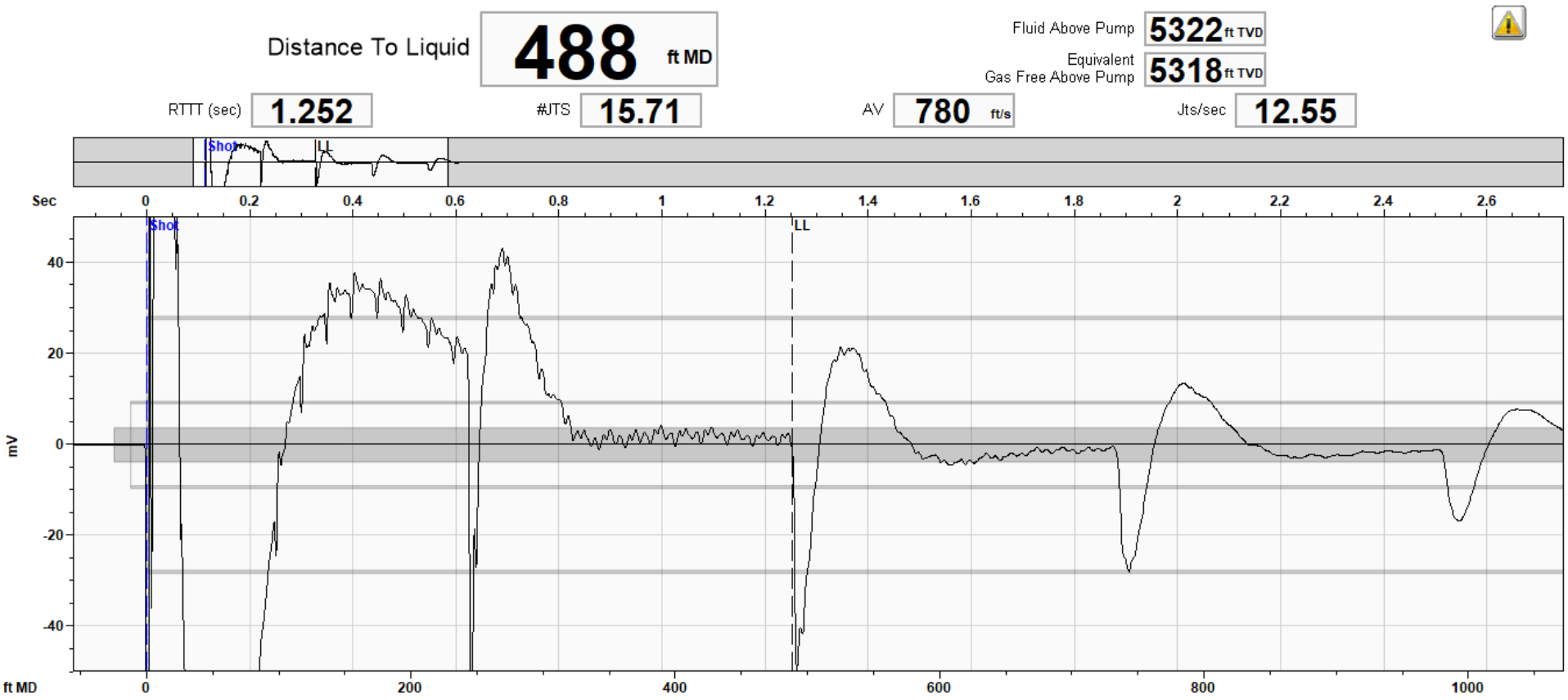
# 6Q – Where is the Liquid Level?



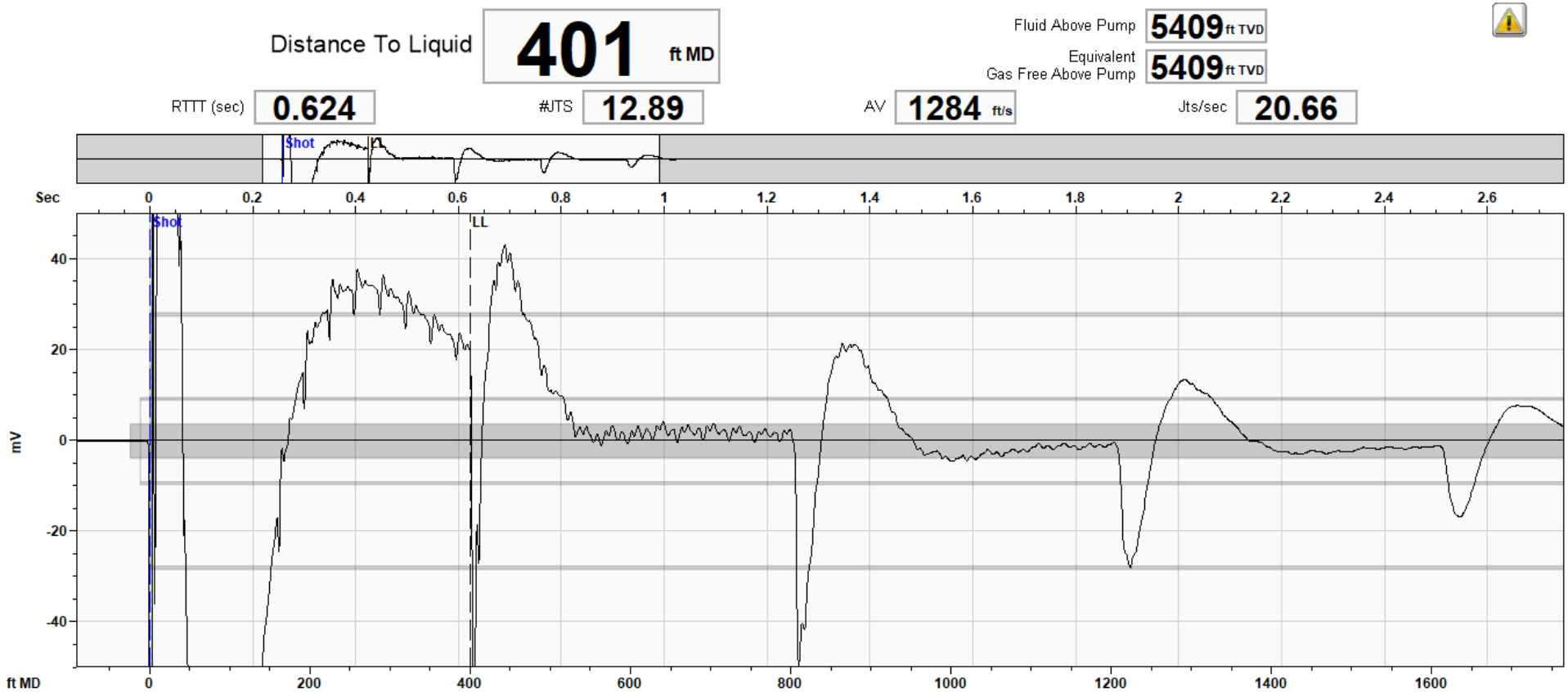
# 6A – The LL is at _____ sec.



# 7Q – Correct the LL Marker location. Verify the Acoustic Velocity is correct.

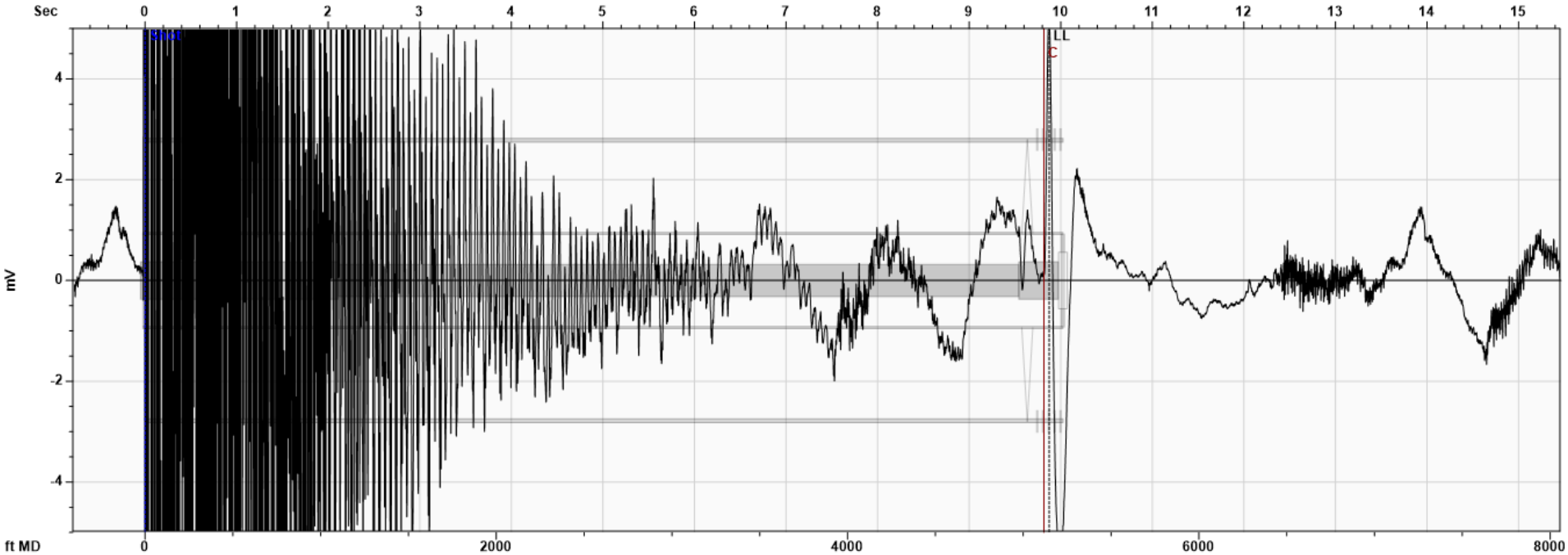


# 7A –The _____must be corrected to get an accurate AV.

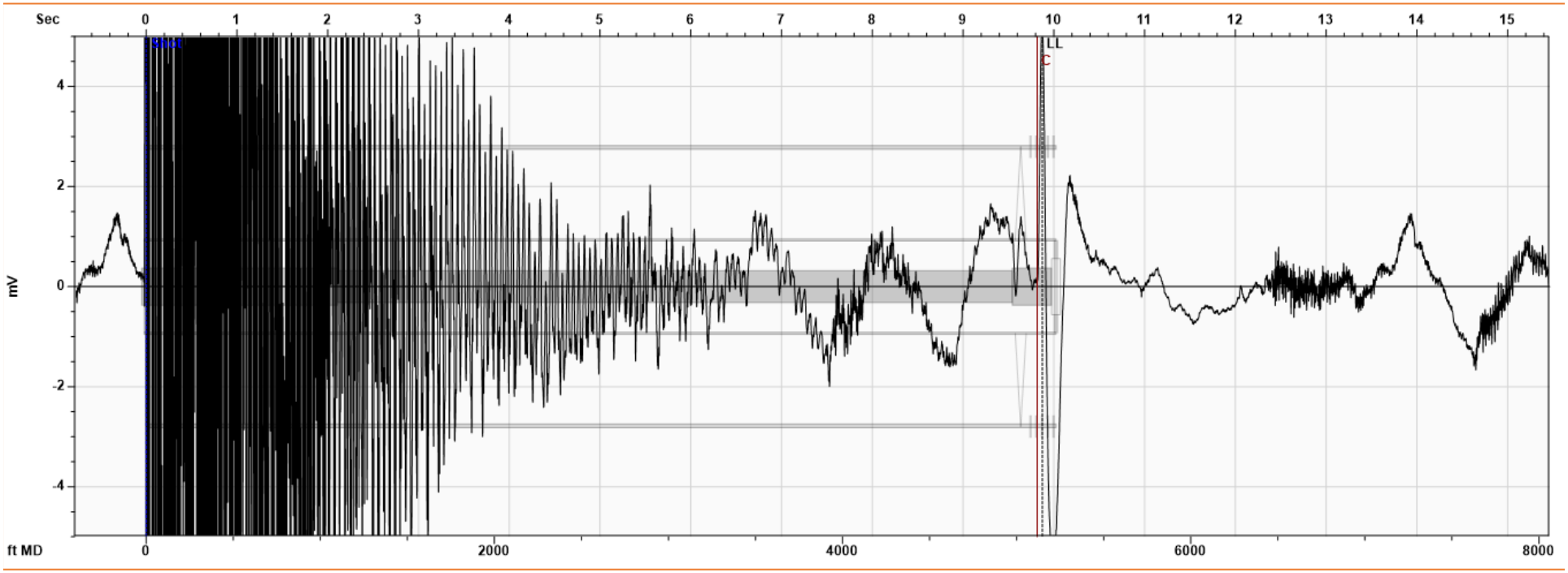



Know the expected Average Acoustic Velocity.

# 8Q – What is happening on this shot?

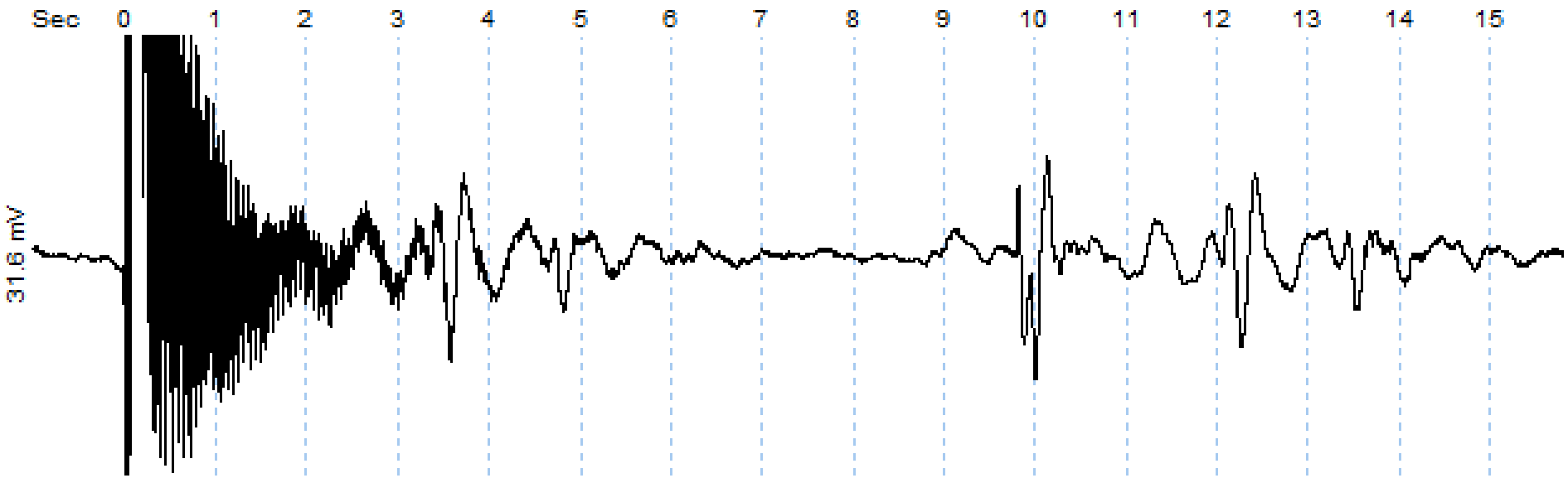


# 8A – _____from the Pumping Unit.

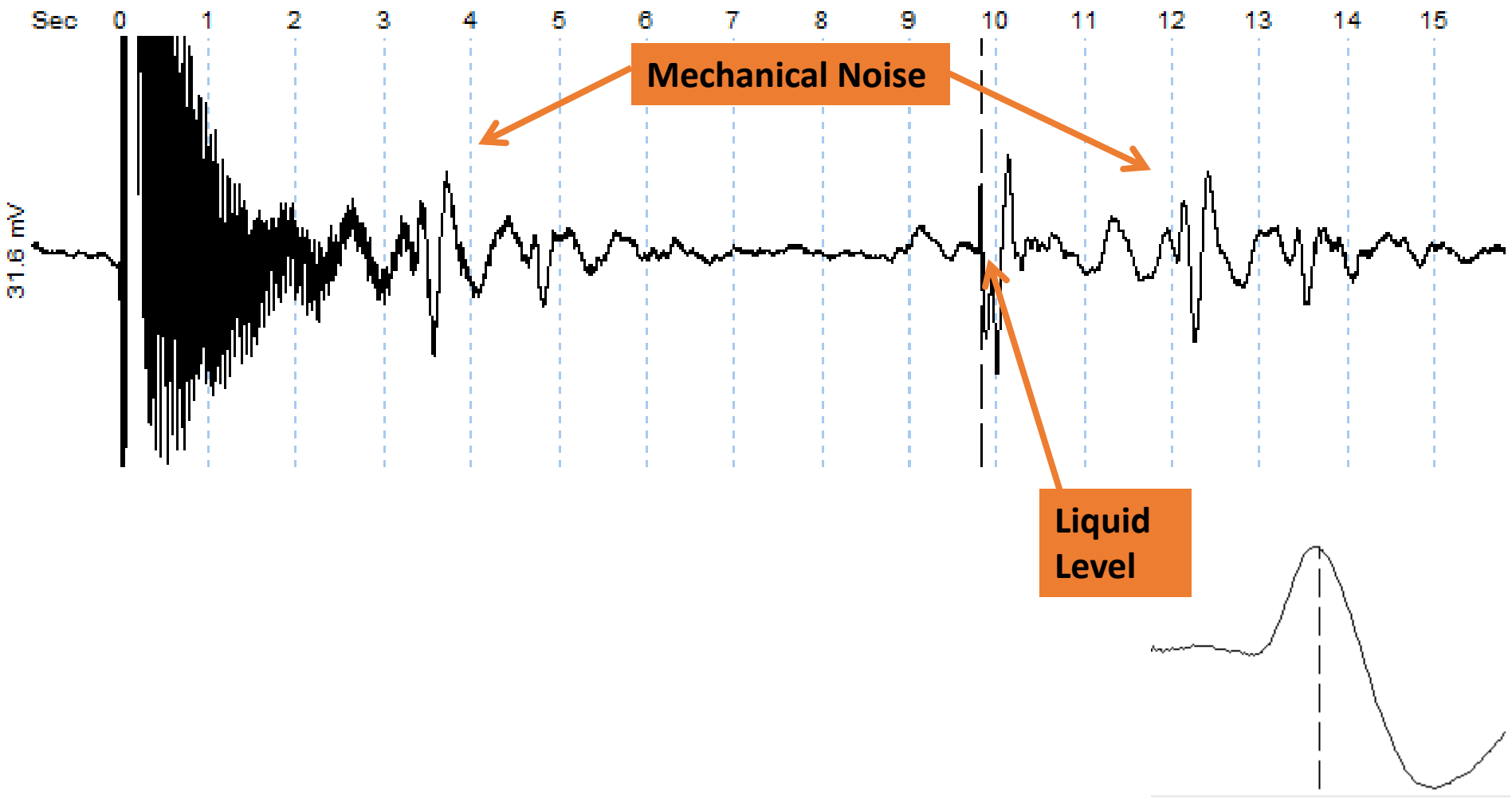



- Mechanical Noise has the same amplitude throughout the shot.
- Look for a repeating series.
- Shut down the Pumping Unit and retake the shot if needed.

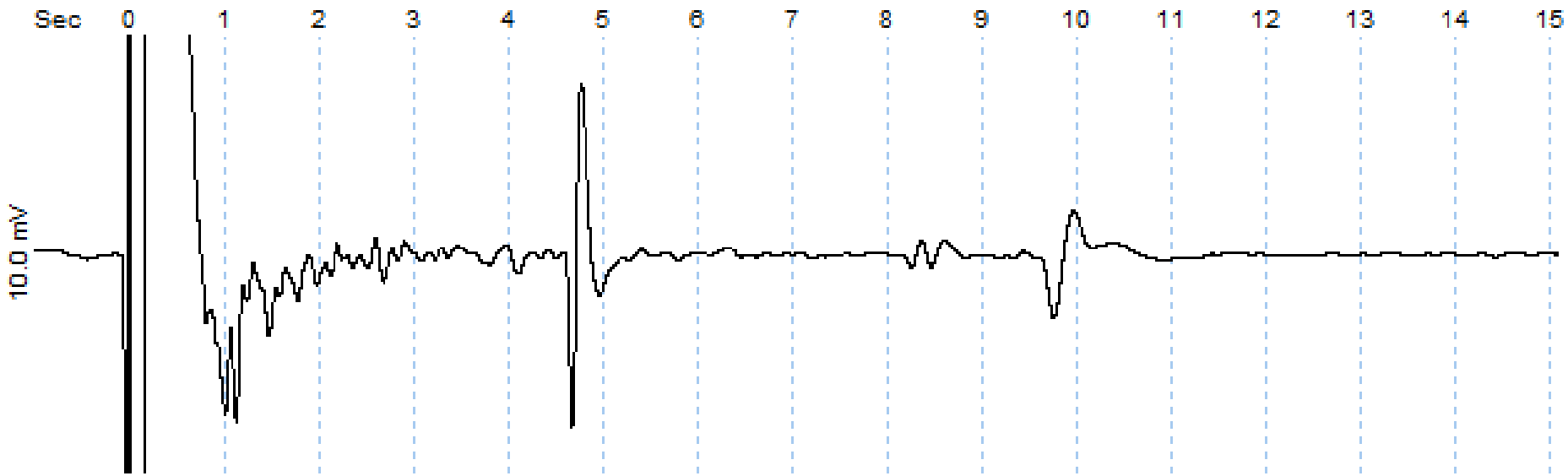
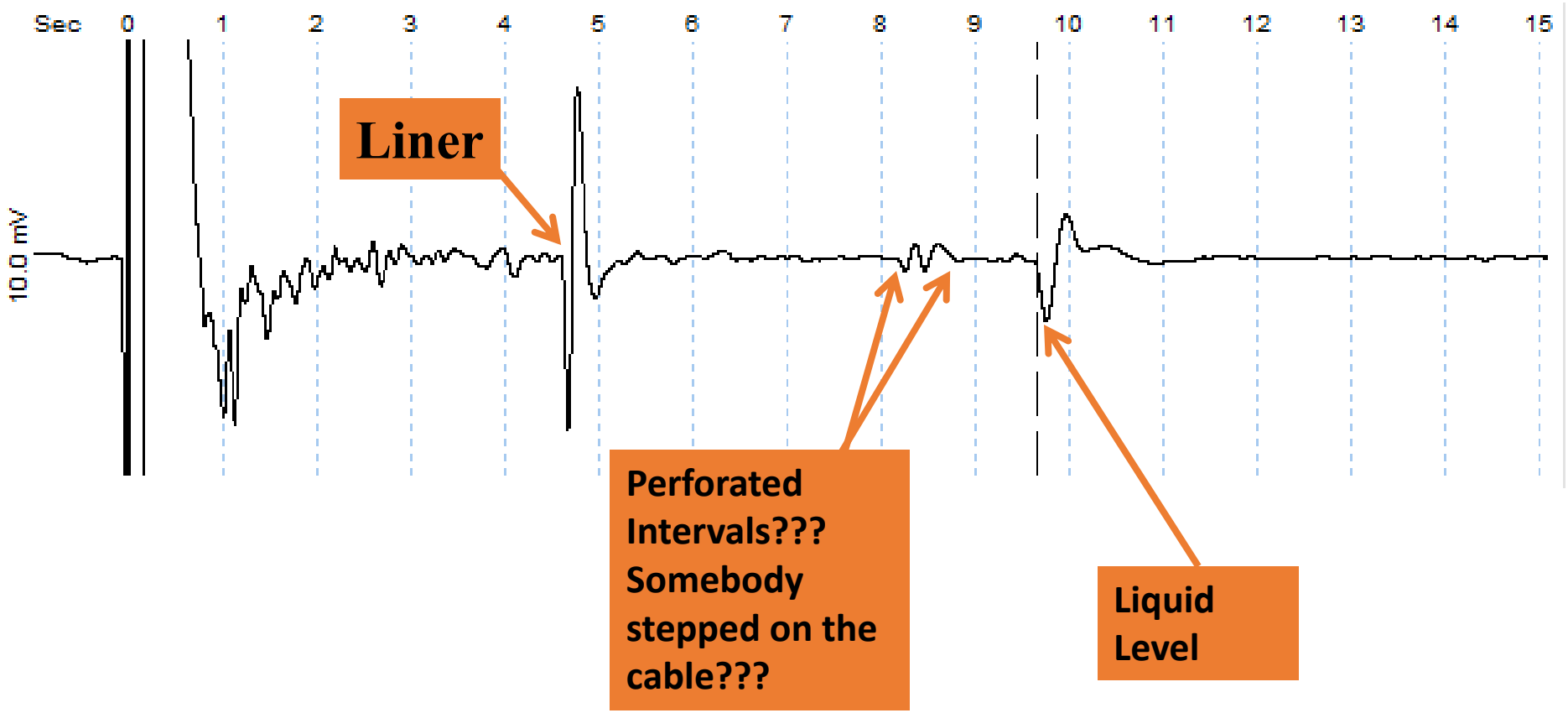
# 9Q: Where is the Liquid Level?



# 9A: The Liquid Level is at 9.8s.



# 10Q: Where is the Liquid Level?



# 10A: The Liquid Level is at 9.65s. Maybe. ALWAYS HAVE A WELLBORE SCHEMATIC and TAKE TWO SHOTS.