

**SED-219**

**I.19-06-016**

**ALJs: Poirier/Hecht**

**Sponsor: M. Felts**

**Date Served: March 18, 2021**

Message

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**From:** Lane, Bret [JLane@semprautilities.com]  
**Sent:** 1/18/2016 10:45:25 PM  
**To:** John Wright [jwright@jwco.com]  
**CC:** 'Pete Slagel' [peteslagel@1816drilling.com]; 'Morten Haug Emilsen' [morten.haug.emilsen@addenergy.no]; 'Don Shackelford' [donwshackelford@yahoo.com]; Jim LaGrone [Jim.LaGrone@boots-coots.com]; 'Rolando Gomez' [rolando.gomez@boots-coots.com]; 'Arash Haghshenas' [arash@boots-coots.com]; 'Wayne Courville' [Wayne.Courville@boots-coots.com]; Petrizzo, Hilary E [HPetrizzo@semprautilities.com]  
**Subject:** RE: S25 Illustration with Sands

John;

Thank you for pulling the visual together. It is an interesting option as to the question of the "void" we have all discussed. We need to think about this type of washout for our planned kill program, and how it might affect our attempts to control the well from losses. If I assume there is flow behind the 7" all the way up to the top of the S1 sand, it does not take a very large washout in terms of diameter (per John's notes below) to give us a 600 BBL volume.

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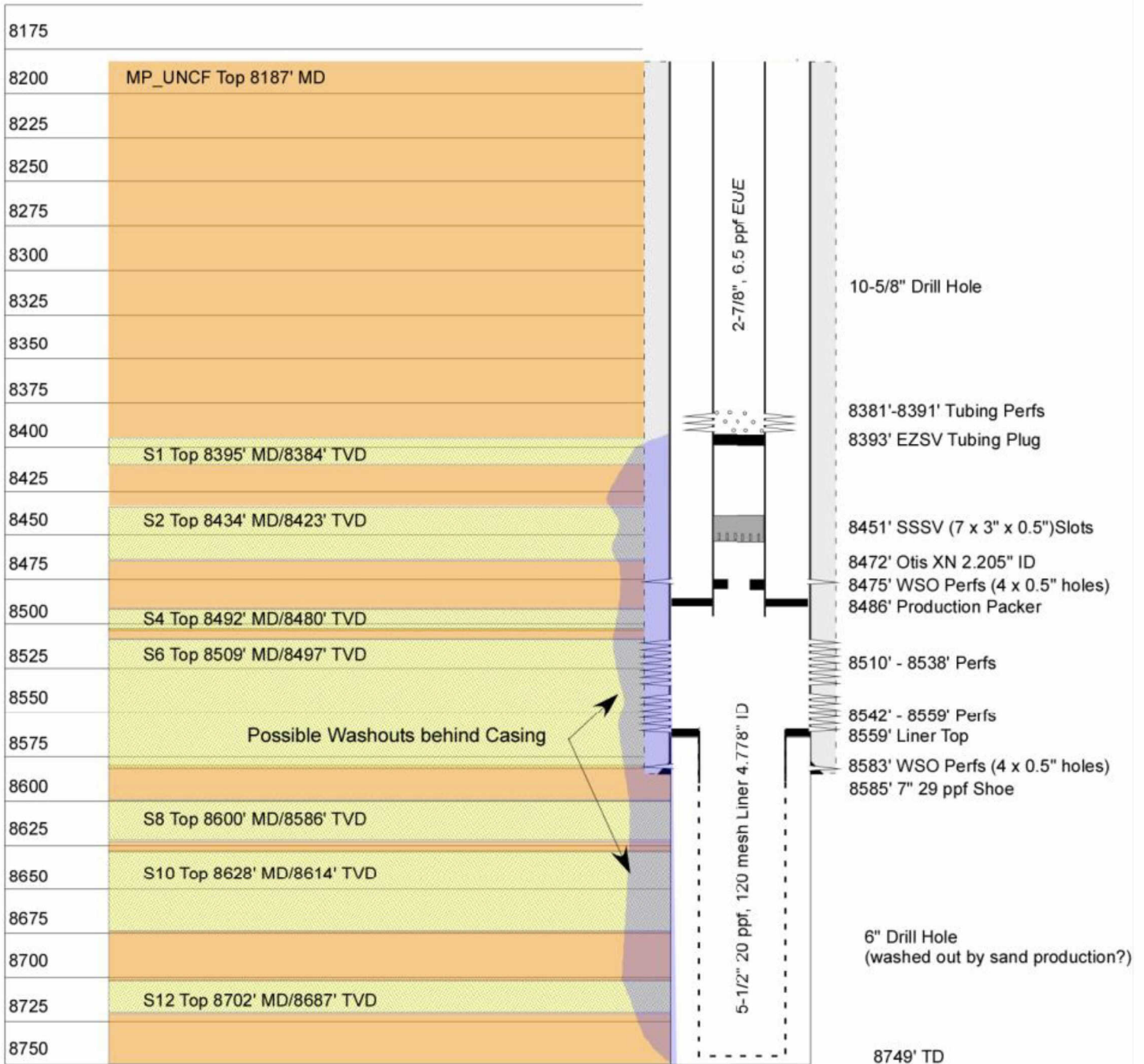
**From:** John Wright [mailto:jwright@jwco.com]  
**Sent:** Monday, January 18, 2016 11:29 AM  
**To:** Lane, Bret  
**Cc:** 'Pete Slagel'; 'Morten Haug Emilsen'; 'Don Shackelford'; Jim LaGrone; 'Rolando Gomez'; 'Arash Haghshenas'; 'Wayne Courville'; Petrizzo, Hilary E  
**Subject:** S25 Illustration with Sands

I made this illustration for visual reference. Vertical depth is to scale. I estimated the sand thickness from the electric log.

Washouts behind casing could also be flow cut casing for planning purposes.

I have not double checked the volumes

MD Relative to SS25 DF



Open hole volume sensitivity below 7" Shoe

- 20" Avg Dia = 59 bbls
- 40" Avg Dia = 250 bbls
- 60" Avg Dia = 568 bbls
- 80" Avg Dia = 1015 bbls
- 100" Avg Dia = 1588 bbls

Open hole volume sensitivity 8475' WSO Perf to 7" Shoe

- 20" Avg Dia = 38 bbls
- 40" Avg Dia = 166 bbls
- 60" Avg Dia = 379 bbls
- 80" Avg Dia = 679 bbls
- 100" Avg Dia = 1063 bbls

Open hole volume sensitivity 8395' S1 Top to 7" Shoe

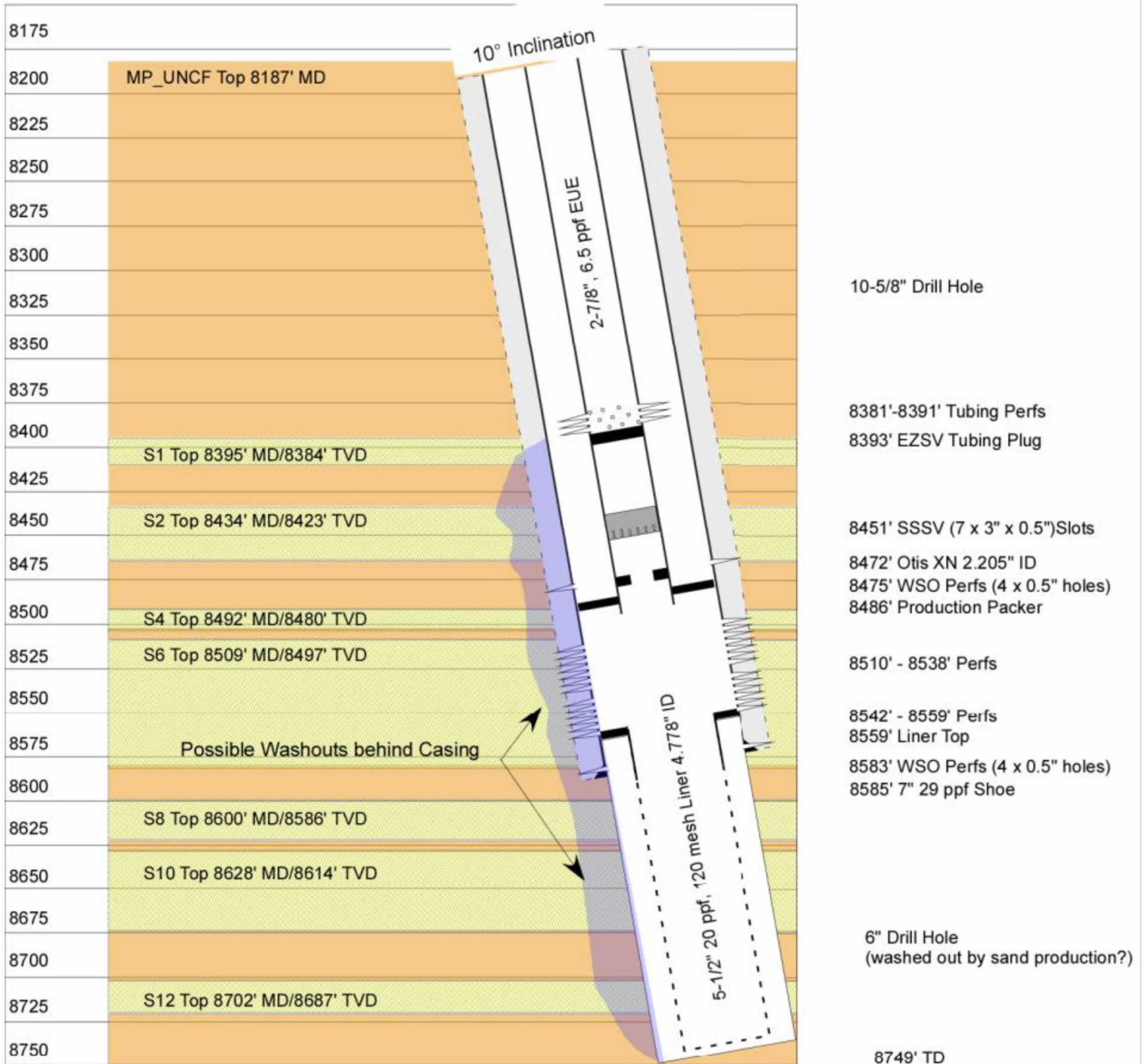
- 20" Avg Dia = 65 bbls
- 40" Avg Dia = 286 bbls
- 60" Avg Dia = 655 bbls
- 80" Avg Dia = 1172 bbls
- 100" Avg Dia = 1837 bbls

Constructed Volumes

- 4.2 bbls inside 5.5"
- 1.1 bbls 6" x 5.5" Annulus
- 2.7 bbls Packer - Liner top
- 266 bbls 7" x 2-7/8" above Packer
- 15 bbls 7" annulus to 470' Hole
- 45.2 bbls inside 2-7/8" to EZSV
- 70.1 bbls 11-3/4" x 7" Annulus
- 113 bbls 16" x 11-3/4" (drilled hole)

Total Volume below packer: 8 bbls  
Total Volume above packer: 311 bbls

MD Relative to SS25 DF



Open hole volume sensitivity below 7" Shoe

20" Avg Dia = 59 bbls  
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 80" Avg Dia = 1172 bbls  
 100" Avg Dia = 1837 bbls

Constructed Volumes

4.2 bbls inside 5.5"  
 1.1 bbls 6" x 5.5" Annulus  
 2.7 bbls Packer - Liner top  
 266 bbls 7" x 2-7/8" above Packer  
 15 bbls 7" annulus to 470' Hole  
 45.2 bbls inside 2-7/8" to EZSV  
 70.1 bbls 11-3/4" x 7" Annulus  
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Example flow cut BOP from a gas storage well blowout in Hungary in 2000.



John

**John Wright**

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