

Additional Information

San Andreas Geology supporting Information

Rose-Coss, Dylan H, EMNRD

From: Rose-Coss, Dylan H, EMNRD
Sent: Tuesday, December 31, 2019 8:09 AM
To: 'Blake Morpew'
Subject: RE: [EXT] Linley State SWD #1-Log & Map Exhibits

Good morning Blake,

Thanks for sending along this information. I will add the documents to the record and incorporate the information into the technical review. I'll be sure to reach out if any additional questions arise.

Regards,

Dylan Rose-Coss

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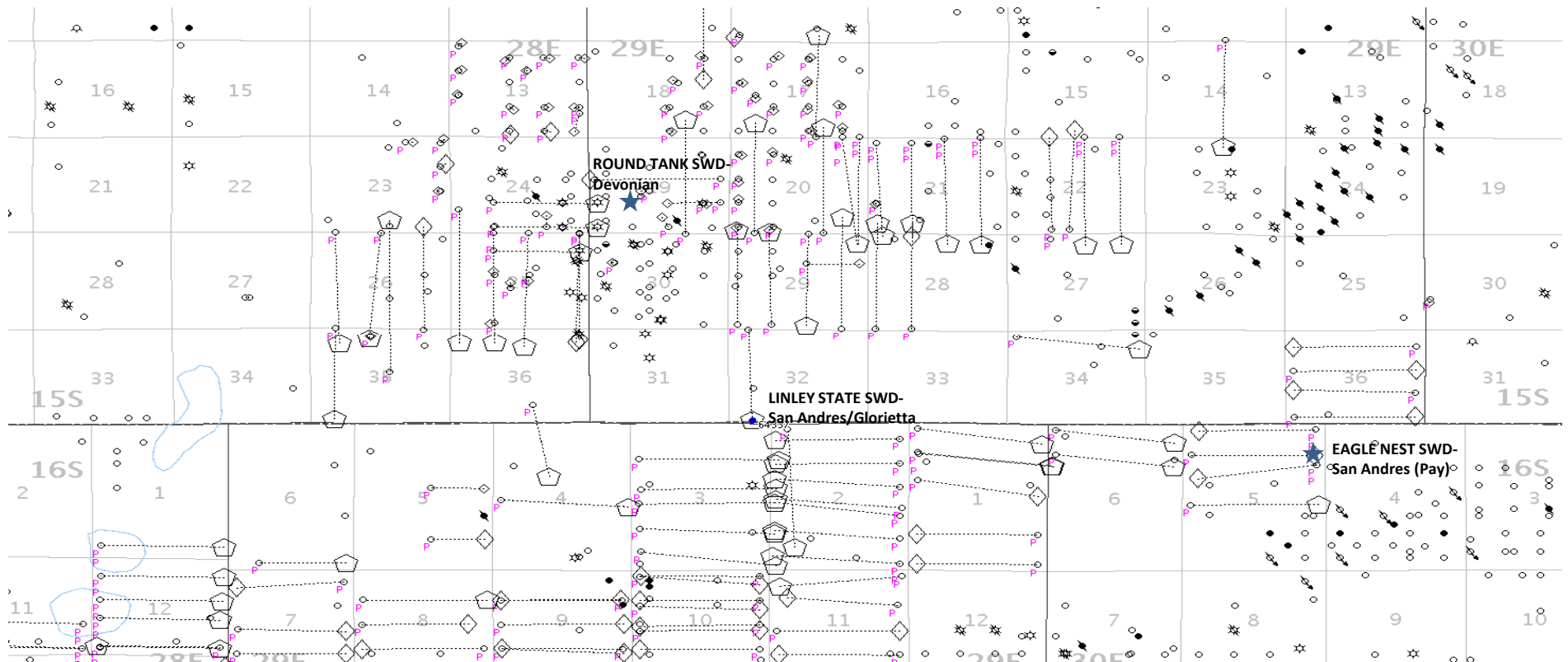


From: Blake Morpew <blake@bampermian.com>
Sent: Tuesday, December 31, 2019 7:00 AM
To: Rose-Coss, Dylan H, EMNRD <DylanH.Rose-Coss@state.nm.us>
Cc: Brian Wood <brian@permitswest.com>
Subject: [EXT] Linley State SWD #1-Log & Map Exhibits

Good Morning Dylan,

Brian asked me to send the exhibits over that we discussed in our meeting with the NMSLO. The main thing that was discussed in this meeting was the distance and rock quality between the proposed injection interval and the landing zone/pay for horizontal development. There is +/- 600' vertical distance between these two points with several hundred feet of extremely tight dolomite that will provide a sufficient barrier to prevent contamination of a productive zone. Also of note is that there has been no commercial hydrocarbon production in this area to date in the proposed injection interval. Our geology indicates that for our development acreage, any San Andres zone below the very top of P-3 will produce extremely high volumes of water so we do not consider these lower SA zones to ever be a target. Please let me know if you have any questions or would like to see anything else.

Linley State SWD-Offset Active Salt Water Disposals



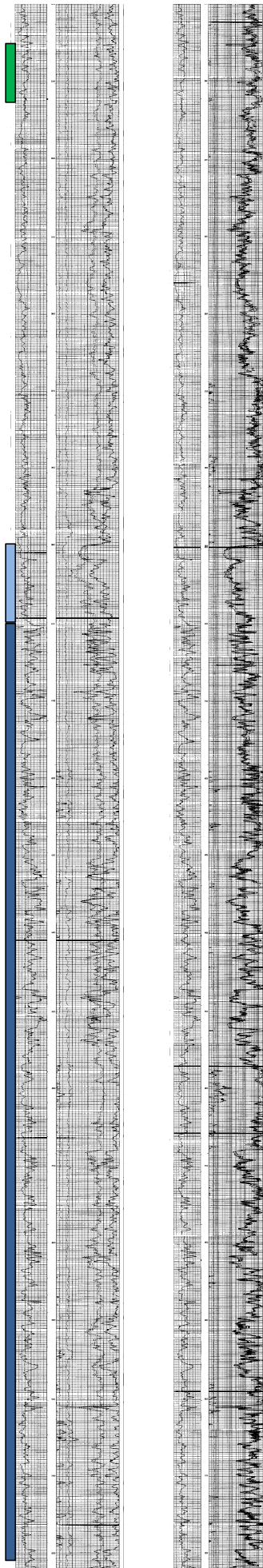
San Andres/Glorietta Offset Correlation Log

San Andres Horizontal Target-P2

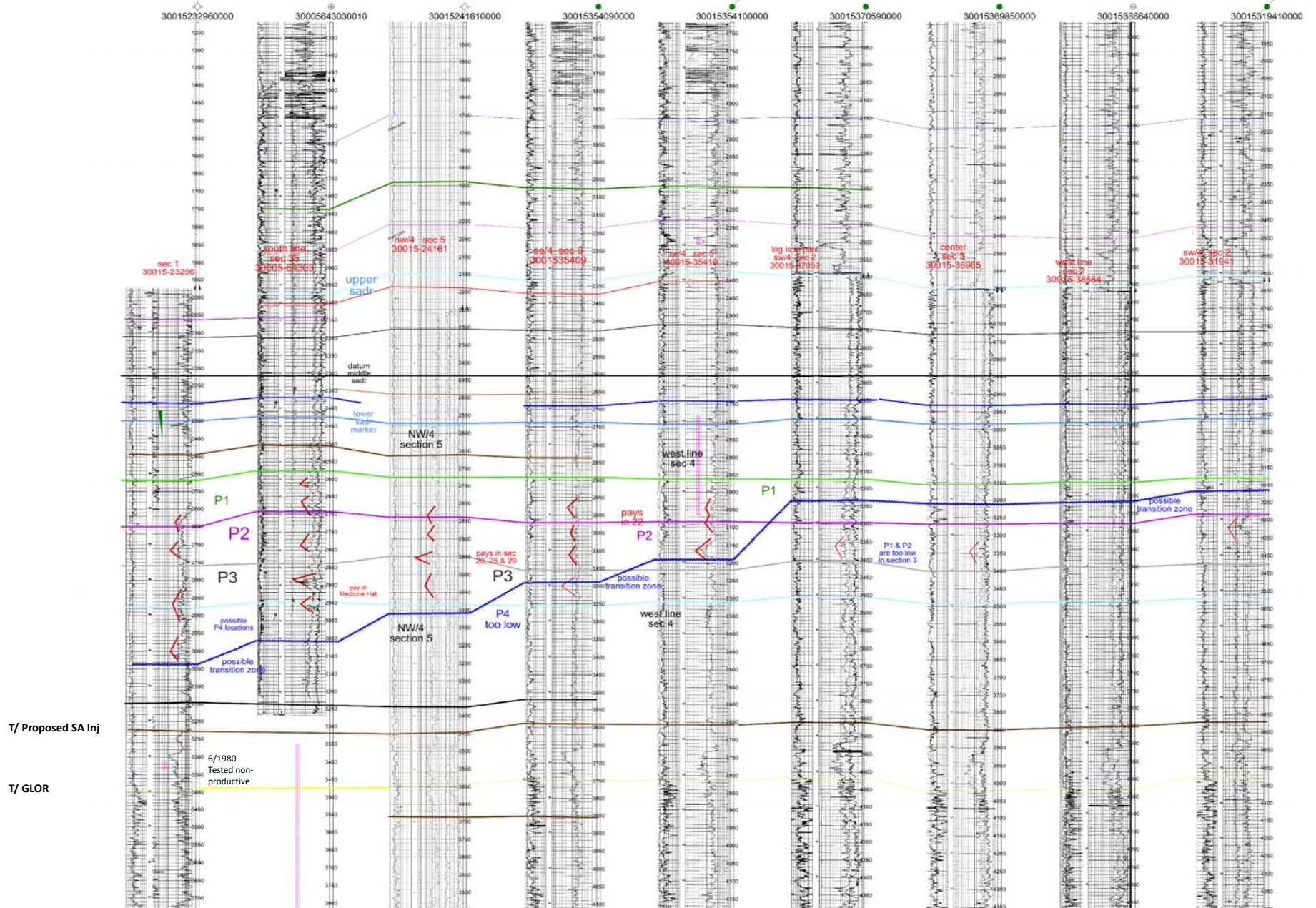
600+ feet tight rock between
proposed injection interval and
horizontal target

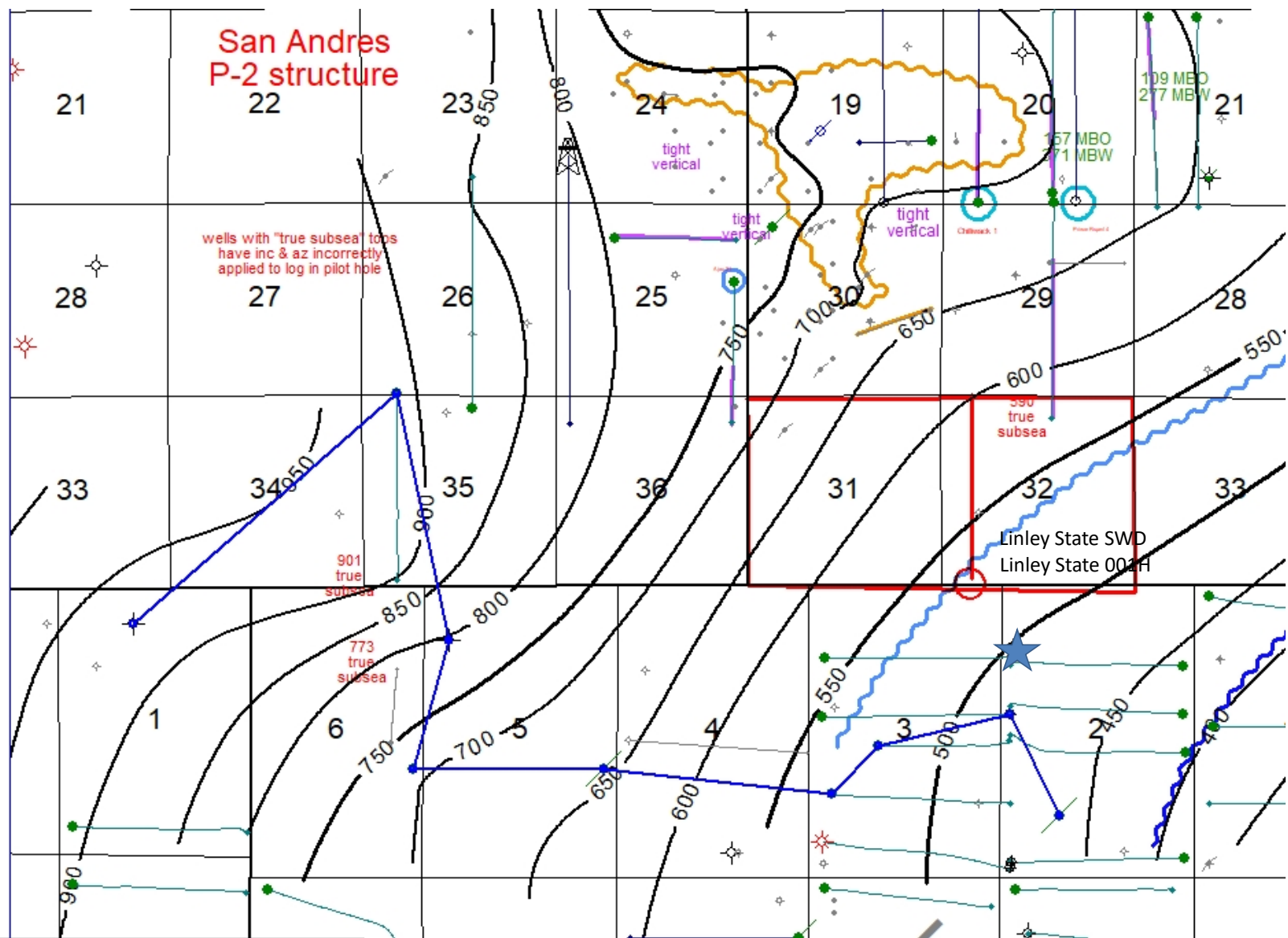
Proposed San Andres Injection Interval

Proposed Glorieta Injection Interval



Round Tank San Andres Cross Section





★ Correlation Log