

Kelly, Patrick

From: Terry Scanlan <TScanlan@spfwater.com>
Sent: Friday, April 27, 2018 10:57 AM
To: Kelly, Patrick; Charles Honsinger
Cc: Zeke@rscigroup.com
Subject: Temperature Log for 63-34242
Attachments: ZWJ Temp Log 4-27-2018.pdf

Patrick and Charlie –

As required by permit 63-34342 condition No. 9 and the stipulation between Terteling Co and ZWJ Properties, attached please find a temperature log for the second borehole drilled for this permit. The log was performed using a solinst level logger with temperature sensor. Bottom hole (220 feet) temperature was 75F. The probe was left on bottom overnight before logging upward this morning.

The 75F bottom hole temperature is 2 degrees cooler than the water temperature produced from the first well that was drawing from deeper water-bearing zones (i.e., 227 to 600 feet).

Coonse Well Drilling proposes to construct the well with well screen from 210 to 220 feet. The surface seal will extend into a clay zone at 206 feet. Please contact me with any questions.

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Terry M. Scanlan, P.E., P.G. | Principal Engineer/Hydrogeologist

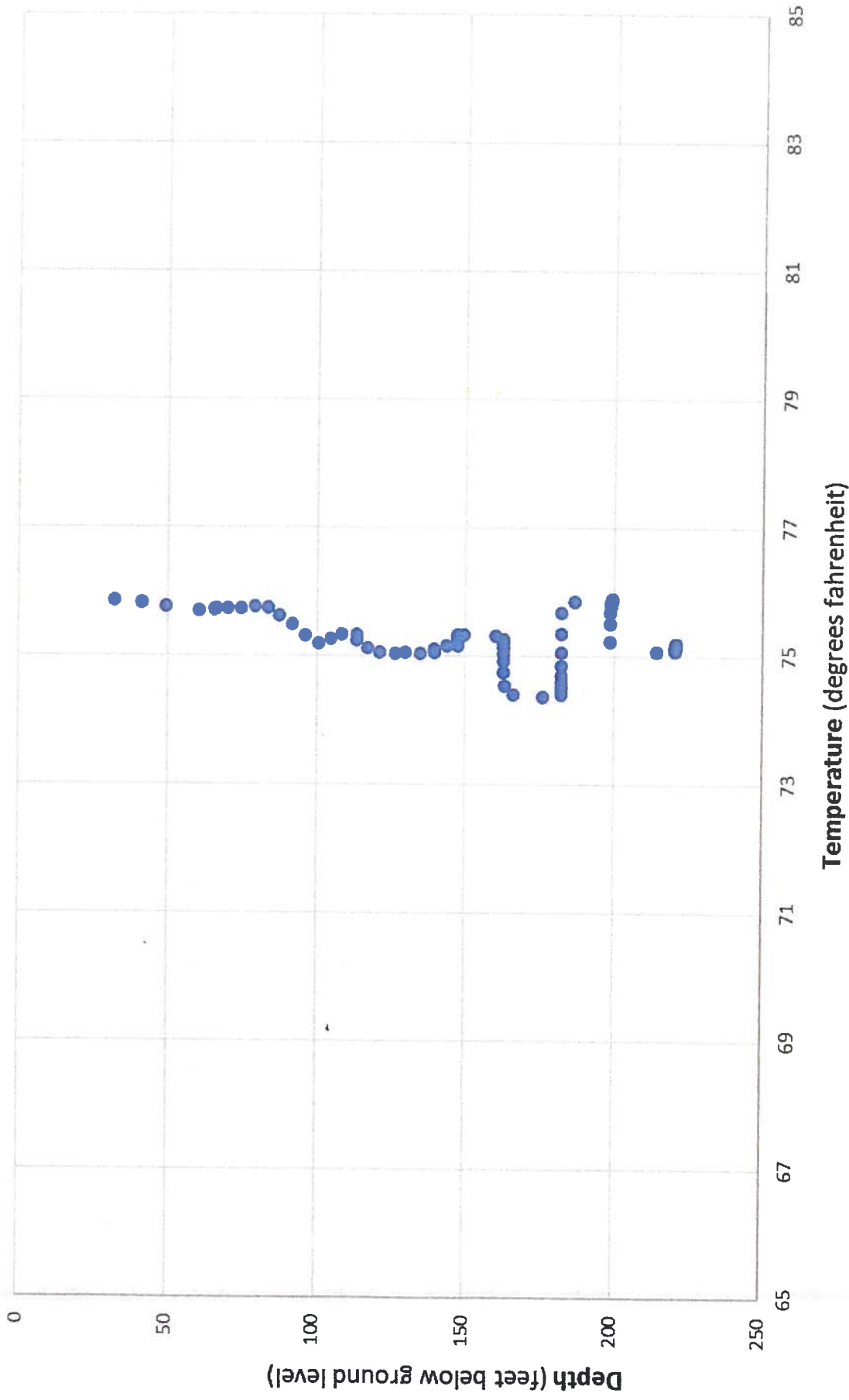
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ZWJ Well #2 Temperature Log 04-27-2018



Temperature log of ZWJ Well #2. A temperature transducer was installed in the well to ~220 feet below ground level on April 26, 2018 at 18:11. The well was recently circulated prior to transducer being installed. Initial temperature of drilling fluid was approximately 85°F, and the temperature slowly declined overnight to a final bottom hole temperature of 75°F. On April 27, 2018 at 07:33 the transducer was pulled out of the bore; the log shown is temperature while being retrieved from the borehole.