

Barry Meays

From: Rob Mills
Sent: Thursday, August 31, 2017 10:34 AM
To: Barry Meays
Cc: Don Proudfoot; Bruce Henderson; Ed Szmata (Ed.Szmata@gov.ab.ca)
Subject: 13353 - Two Creeks Callout - August 29, 2017

Hi Barry,

The site visit at Two Creeks was completed on August 29, 2017. Mr. Bruce Henderson was in attendance with the Electrician and Highway Maintenance Contractor's supervisor for the area.

A review of the Primary and Secondary pump locations and general function was completed with all members present. The Secondary pump remains operational.

The electrician reported that replacement parts for the primary pump Power Controller were ordered but have not arrived. The electrician further described the function of the breaker button at the bottom of the controller box. The button becomes "tripped" when electrical load is above normal. Upon inspection, the button became "burnt out" from multiple resets. We believe the Primary well pump is working too hard, possibly related to sand production within the well or failure of the pump.

A temporary cable was attached from the functioning secondary pump power Controller to the Primary downhole pump for assessing pump operation. The secondary pump power Controller "tripped" immediately. Hence, we believe an issue with the downhole pump in the Primary well. The temporary cable was removed and connections re-established to the Secondary pump. Operation of the secondary pump was confirmed before leaving site.

Based on these findings, the next course of action is to remove the pump from the Primary well to assess the power overloading and clean the pump. Consideration may include cleaning any material from inside the well before re-installing the pump.

The central monitoring station was visually inspected during the site visit to identify any issues. It appears to be operating normally. The modem and SIM card information was recorded to allow the transfer of account to Alberta Transportation. This information was forwarded to Barry Meays.

If any clarification is required, please feel free to contact me at your convenience.

Regards,

Rob

Robert F. Mills, M.Eng., P.Eng.
ASSOCIATE | GEOTECHNICAL ENGINEER

Thurber Engineering Ltd.
4127 Roper Road
Edmonton, AB T6B 3S5
T. 780 438 1460 | F. 780 437 7125 | C. 780 235 2034
thurber.ca

