

Little Blue Natural Resources District

"Serving The Public Since 1972"

Heinrichs Test Pump
E½ NW¼ 03-2N-02W

Well hit 413 gpm when started at 12:00 pm on October 23rd, flow and pressure were regulated by well driller and set at 405 and 14. Initial engine rpm set at 1600, speed bumped by 50 rpm at 2:45 pm and again at 5:40 pm. It looked like the speed might need to be upped at 10:45 pm but gpm came back up. At 9:00 am on the 24th engine speed was decreased slightly, by around 25 rpm.

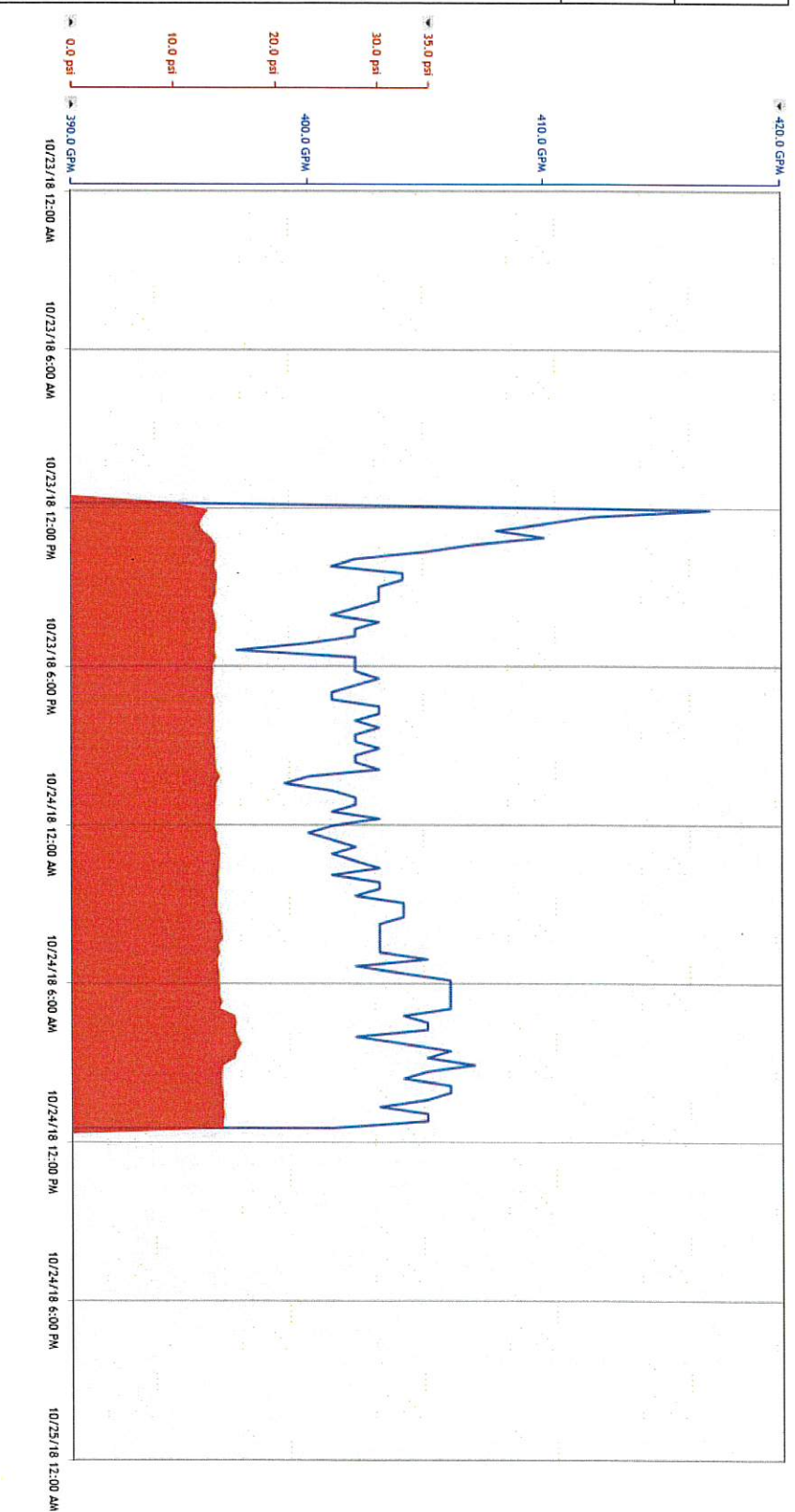
The well log says pink sand/gravel is found at 21 feet in depth, green sand/gravel at 85, blue clay and fine sand at 126, green sand again at 137 and gray clay at 149. The test hole went down to 200 feet finding only gray clay. The screen was set from 72 to 152 feet, the pump intake set at 152. The pumping level declined until it hit 112 feet; however, it finally steadied at that level for an hour before the test concluded. The pumping level never declined to the point of bowl intake.

Static level on September 26th was 85 feet, on October 23rd it was 84.90. As noted, pumping level fell to 112 feet and recovered, after one hour, to 87.84. The Jerry Wiedel inactive irrigation well, located 1400 feet to the south, southeast of the Heinrich's test had a static on September 26th of 60.95. On October 23rd the depth to water was 60.75. After 24 hours of the Heinrich's test the depth to water was 60.72. Rising about one third of an inch while the Heinrich's well was being pumped.

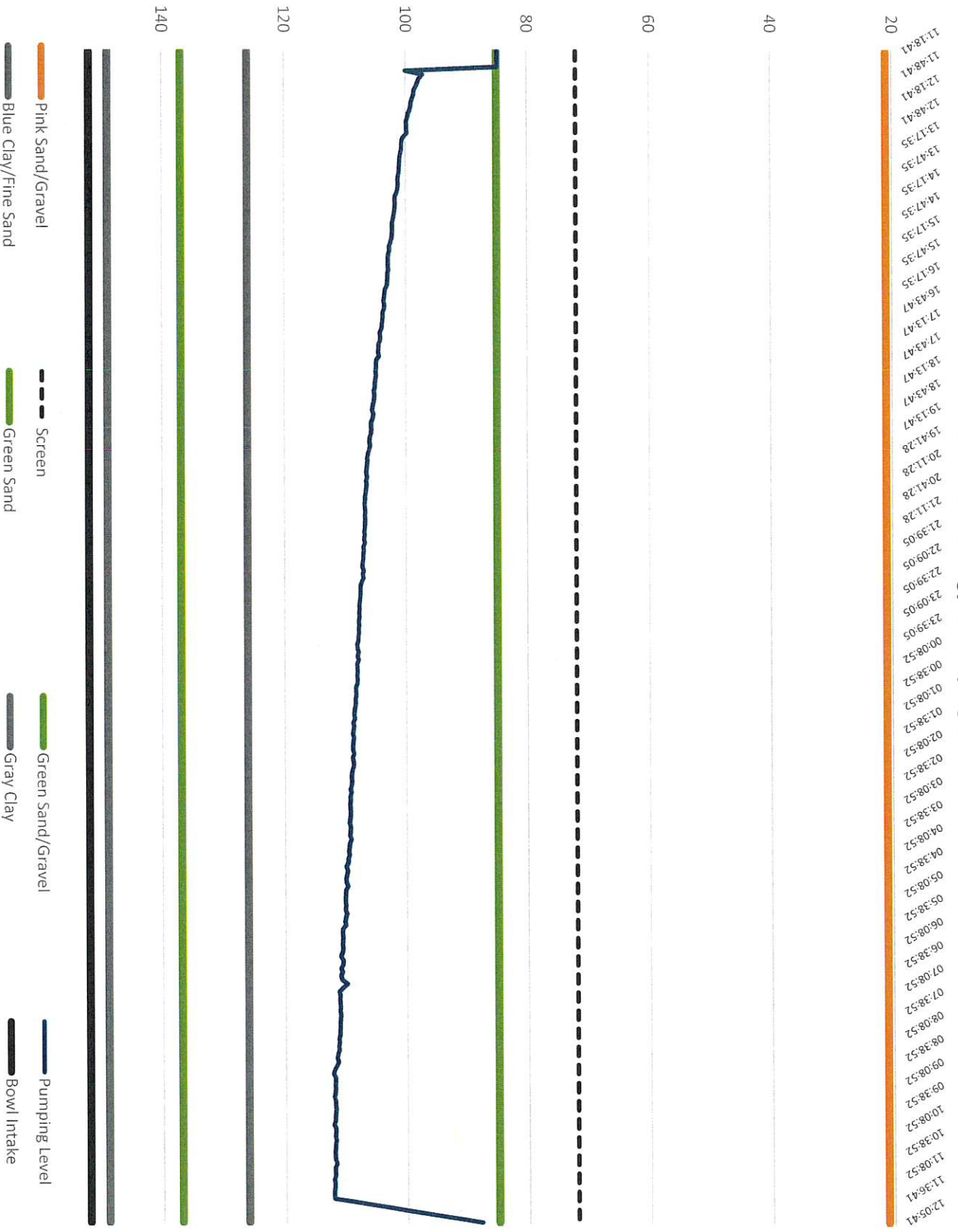
The pumping level did not decline to a point of pulling air into the bowl intake. However; at the time of this test the well had 13 feet of screen above the static water level, and during the pumping there was another 27 feet of screen left un-saturated. Cascading water from this de-watered aquifer likely aerated the column and led to an increase in pressure at 7:00 am on October 24th, and a 3 to 4 gpm rise.

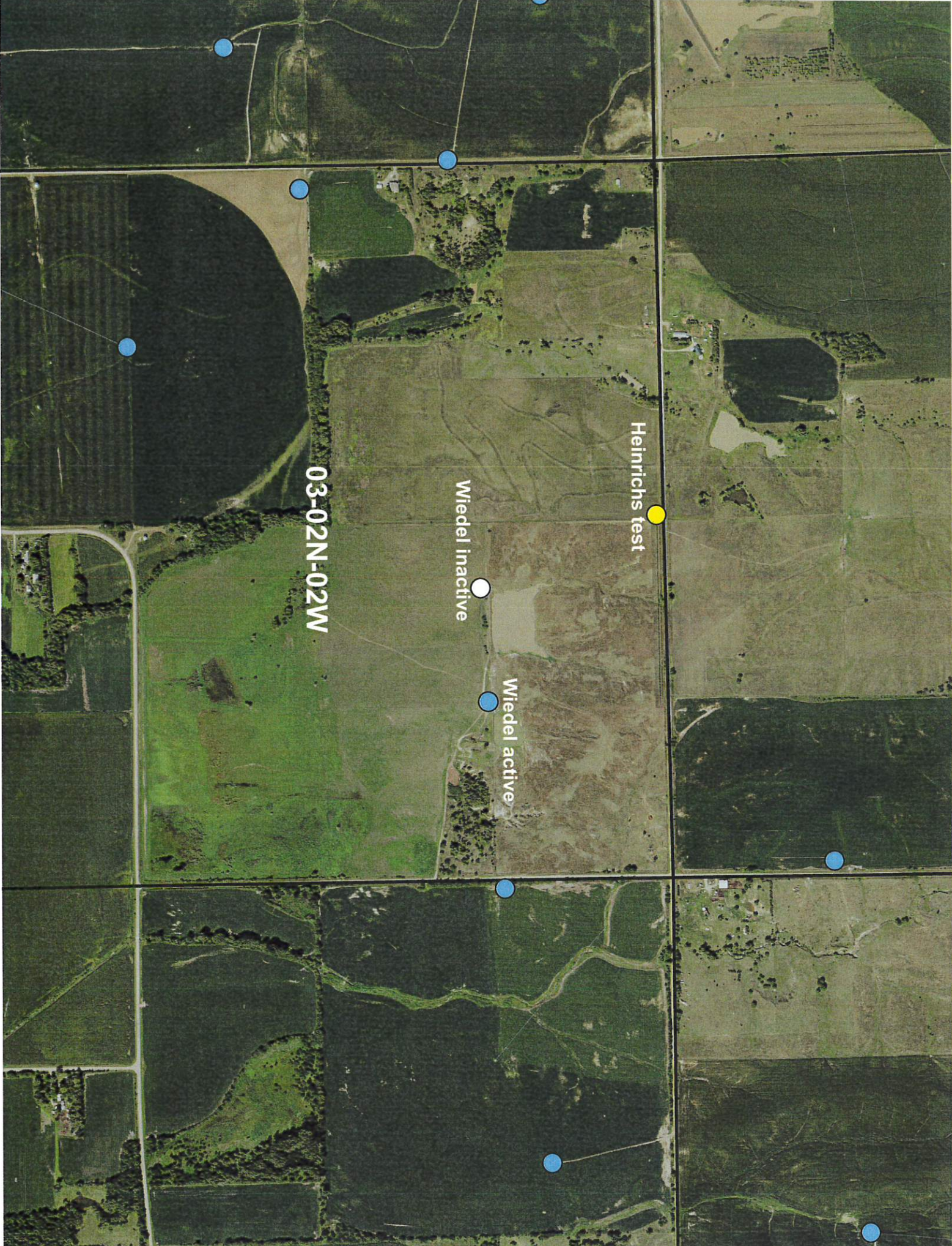
This well did meet the minimum standard of 400 gpm over a 24 hour period from October 23 to October 24th, 2018.

Flow Rate	0.0 GPM
Oct 24, 2018 11:46:00 PM	
Pressure	-5.9 psi
Oct 24, 2018 11:46:00 PM	



Heinrichs Geology & Pumping Level





Heinrichs test

Wiedel inactive

Wiedel active

03-02N-02W