Solid Waste Borehole Maximum
Temperature Profiles Over 6 Weeks
for 4/17/2025 to 5/28/2025

SCS ENGINEERS

07224053.00 | May 29, 2025

274 Granite Run Drive Lancaster, PA 17601 717-550-6330 From May 22, 2025, through May 28, 2025, there were four recorded temperature increases, and three temperature decreases that triggered the notification limits set forth in the LEA's October 4, 2024 letter.

Additionally, as of April 4, 2025, twelve new TMPs (TMP-21, TMP-24, TMP-25, TMP-26, TMP-27, TMP-28, TMP-29, TMP-30, TMP-31, TMP-32, TMP-34, and TMP-35) have been installed and are online. None of these twelve new TMPs indicate reaction temperatures occurring outside of the currently delineated data-driven reaction area boundary, and the four TMPs that were able to be drilled to within 25 feet of the liner (TMP-24, TMP-27, TMP-31, and TMP-32) show significantly cooler temperatures at the deepest thermocouple, as expected due to the cooling from the underlying earth.

Chiquita provides the following updates:

• TP-06

O As stated in previous reports, during field investigation of TP-06, the thermocouples were evaluated and found to have had errors and failures since being brought back online from filling operations. Any temperature readings from the date that the thermocouples were brought back online were likely erroneous and any decreases or increases in temperatures were in error. The failed sensors were replaced and re-wired on April 4th. The maximum recorded temperature at TP-06 since the replacement and re-wiring remains 138°F. In addition, after a below grade evaluation of TP-06, the 2-inch casing was found to be bent which was causing the 100-foot thermocouple to no longer read temperatures. On April 23rd a new thermocouple was attempted to be installed but could not be advanced beyond 20 feet due to issues causing thermocouple not being able to be removed or re-installed beyond repairable depth. On April 29th field crews were able to reinsert the 100-foot thermocouple by removing all thermocouples and re-installing them together. The maximum recorded temperature for this reporting period was 133°F. Note that the vertical temperature profile for TP-06 will be corrected in future weeks when we have multiple weeks of correct data and no past data issues that throw off previous weeks' graphs.

TP-09

O As stated in previous weeks' reports, prior weeks of readings at TP-09 showed no variability and upon field investigation, the battery for TP-09 was found to have failed likely due to poor cell network connection rapidly draining the battery. A new battery was installed on May 23rd ahead of schedule and TP-09 is now online and recording data. There have been no significant temperature changes since TP-09 went offline.

• TP-11

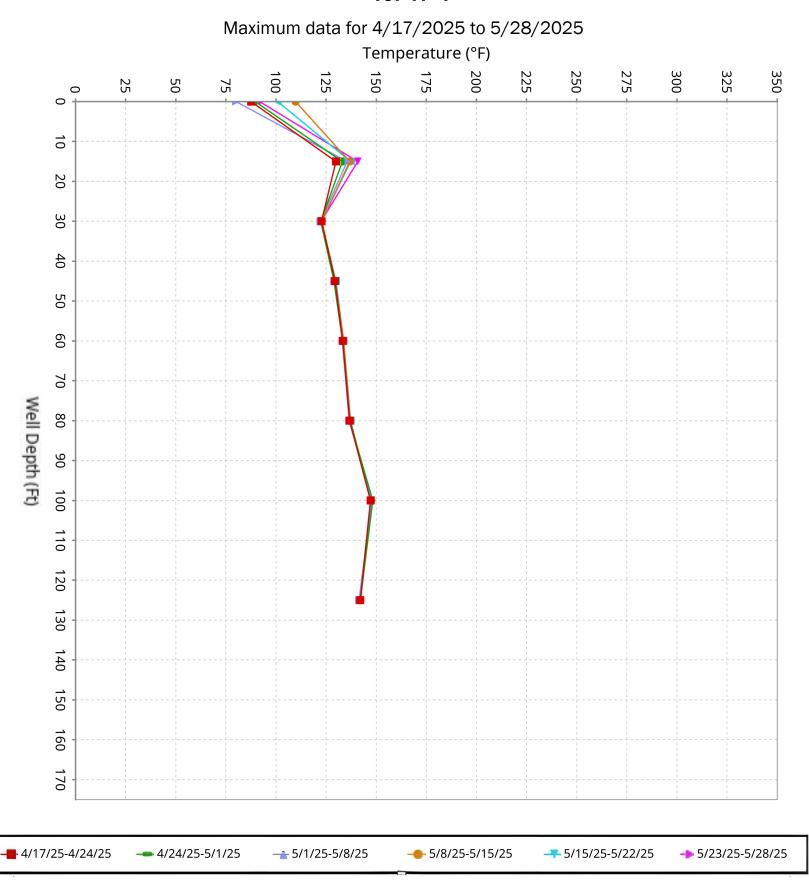
O The 45-foot thermocouple showed an increase in maximum temperature of 18°F from 140°F to 158°F from May 21st to May 28th

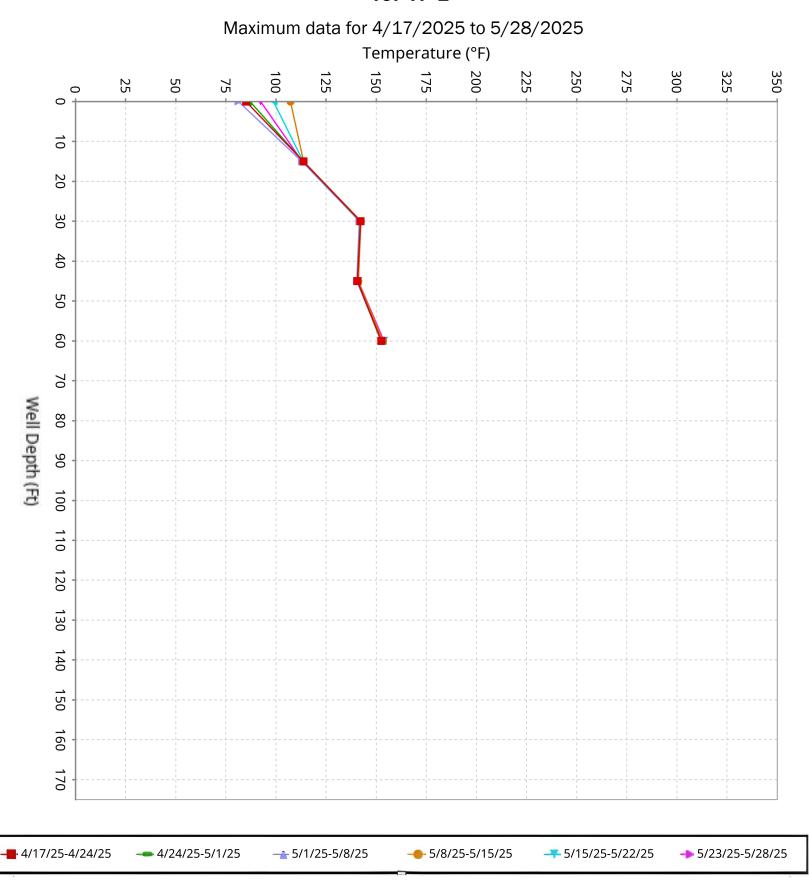
• TP-14

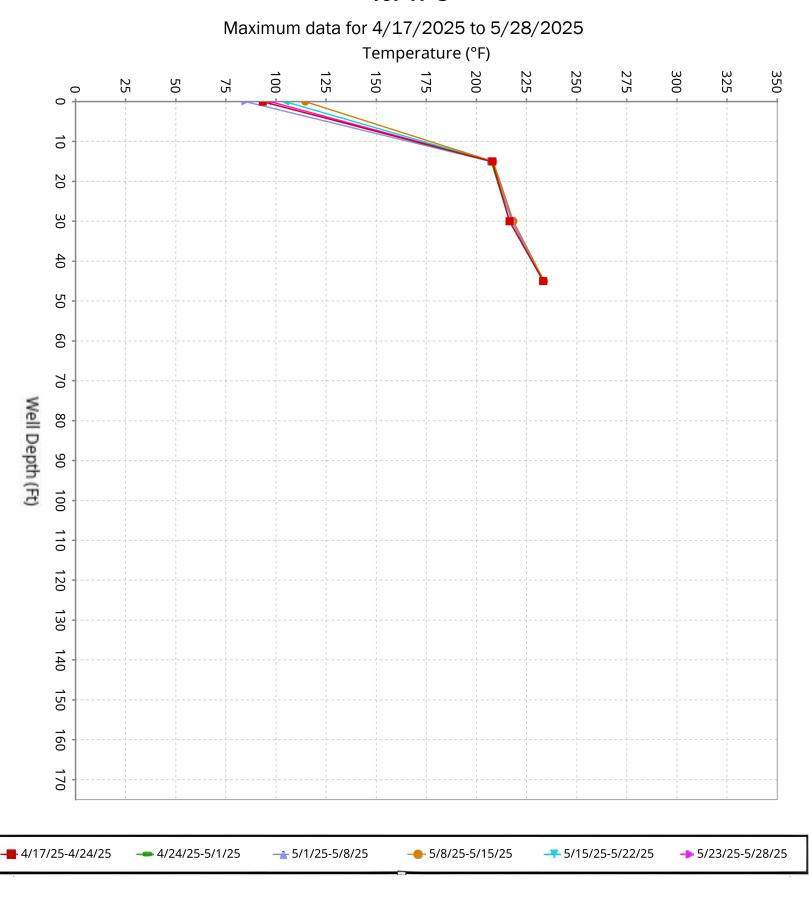
O The 15-foot thermocouple showed an increase in maximum temperature of 13°F from 115°F to 128°F from May 20th to May 26th

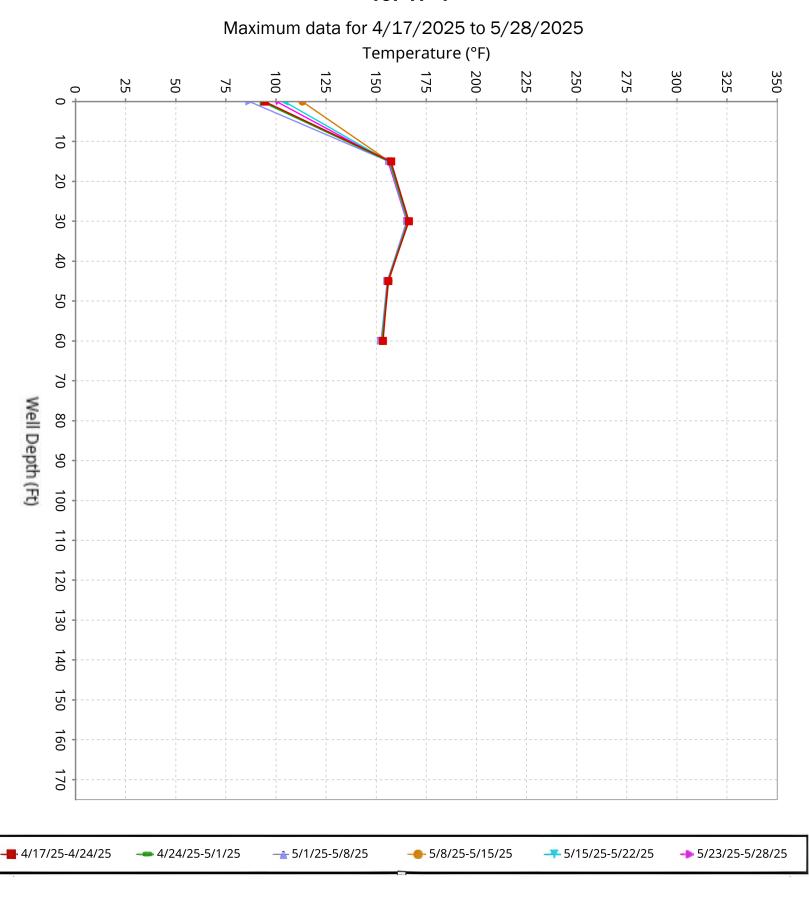
• TP-21

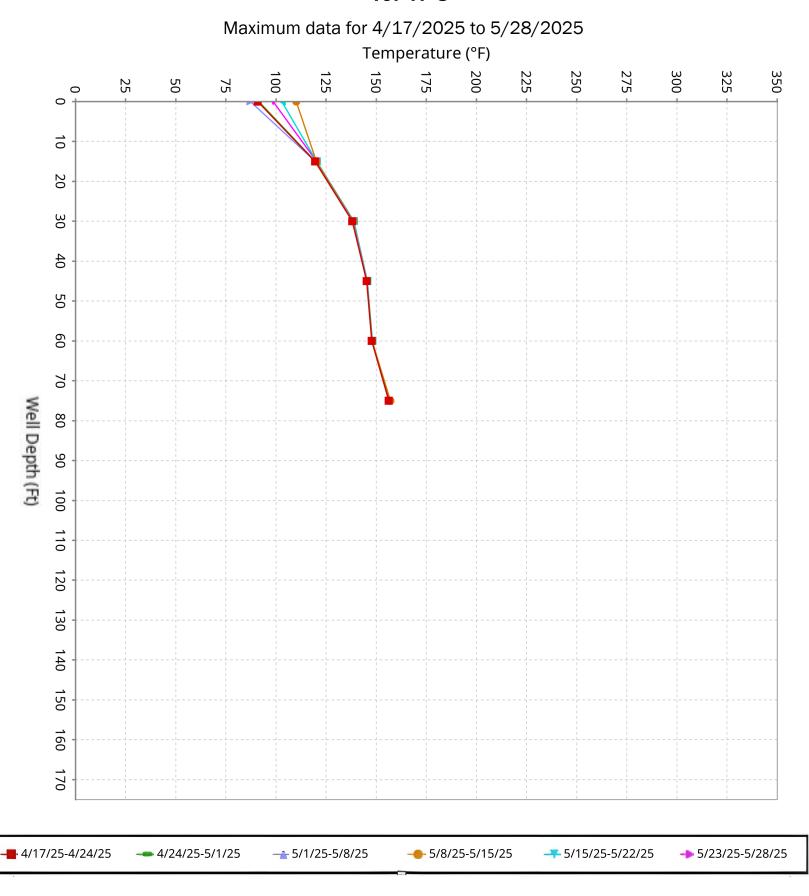
- O The 45-foot thermocouple showed a decrease in maximum temperature of 10°F from 168°F to 158°F from May 20th to May 27th
- O The 60-foot thermocouple showed a decrease in maximum temperature of 19°F from 197°F to 178°F from May 19th to May 26th
- O The 70-foot thermocouple showed a decrease in maximum temperature of 18°F from 209°F to 191°F from May 20th to May 25th, and then an increase in maximum temperature of 16°F from 191°F to 207°F from May 25th to May 28th
- O The 95-foot thermocouple showed an increase in maximum temperature of 17°F from 210°F to 227°F from May 17th to May 24th

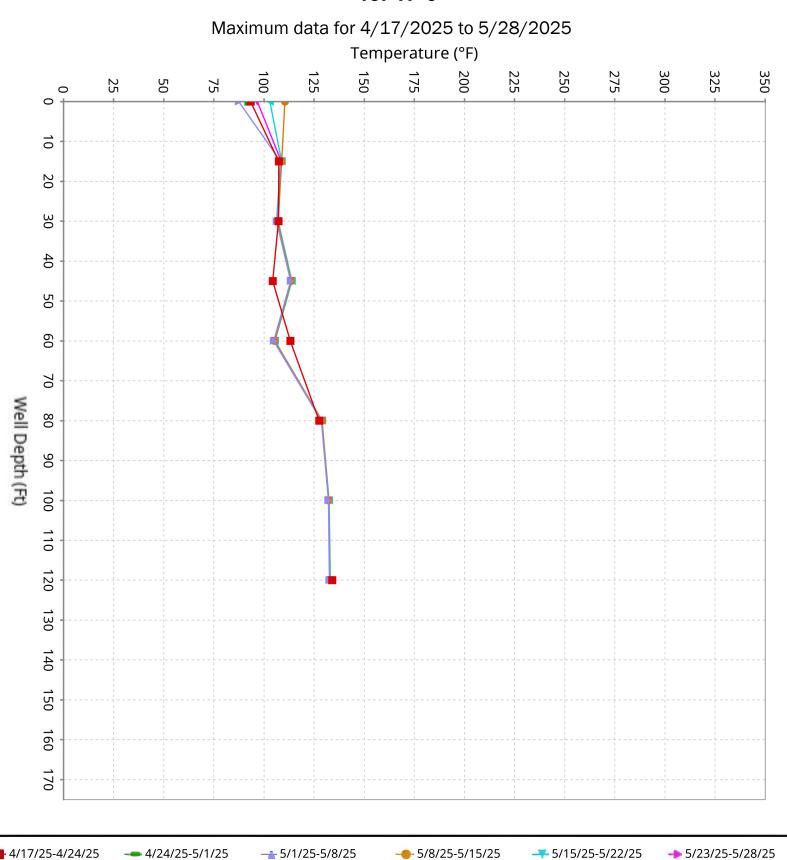


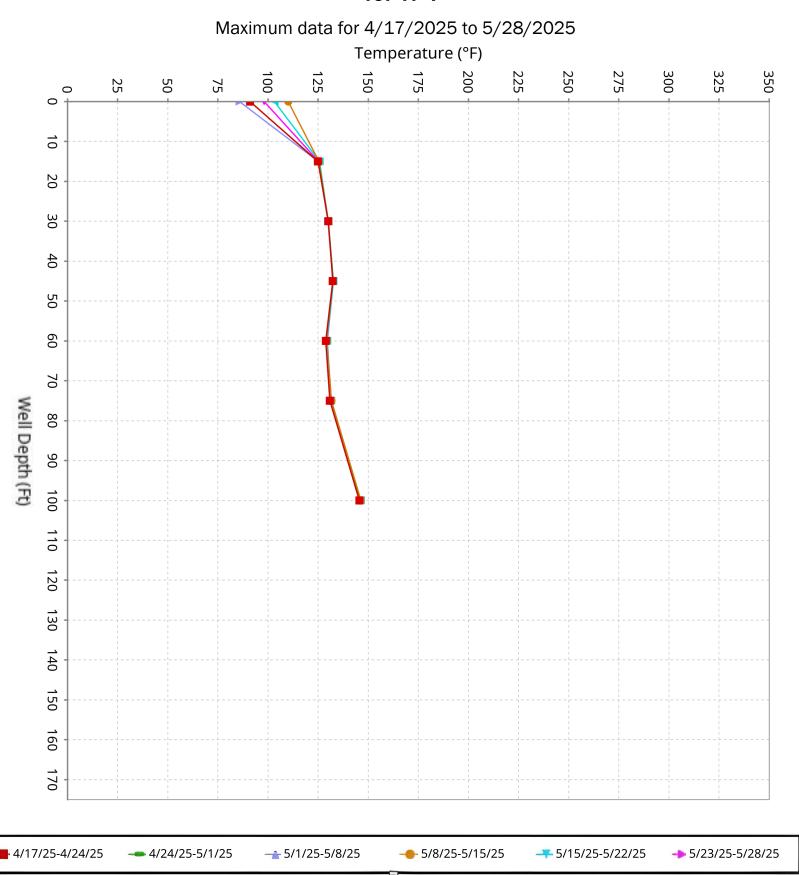


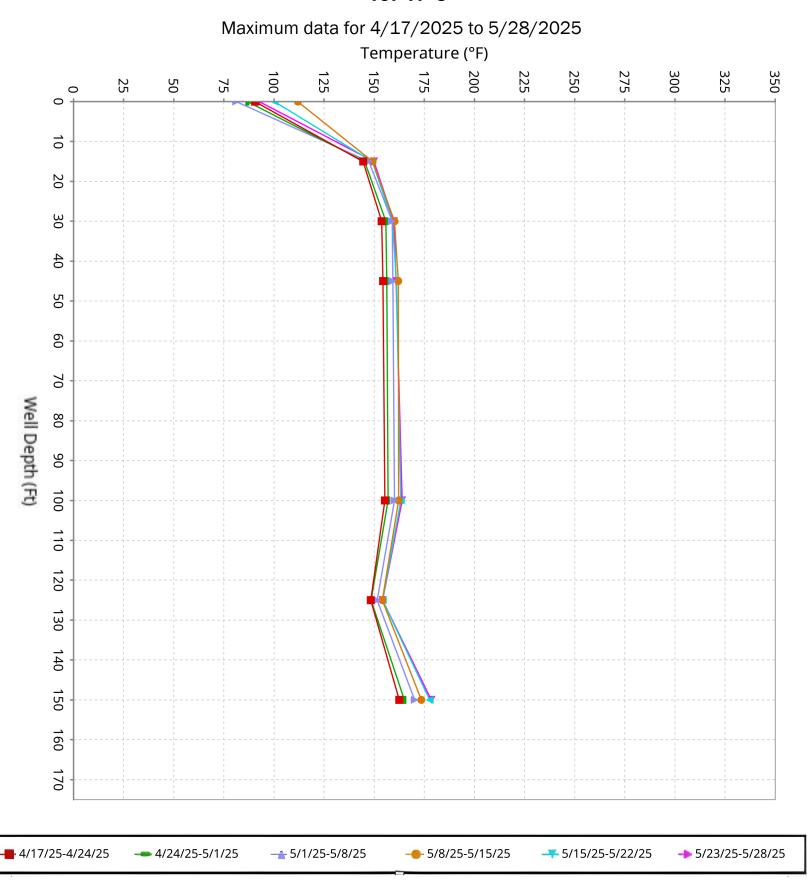


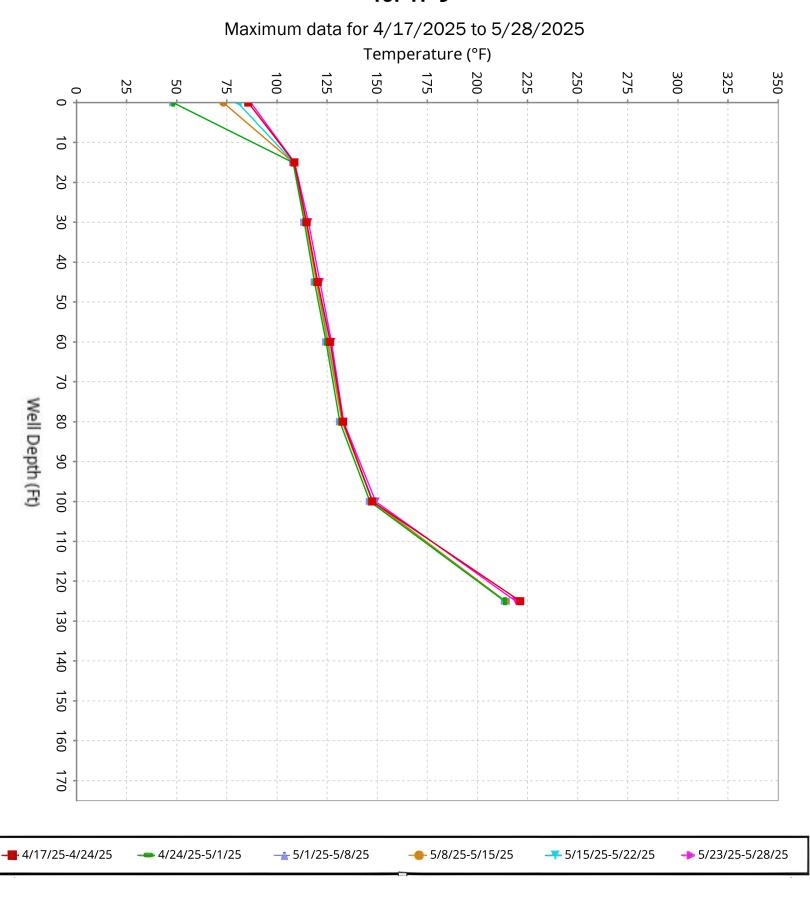


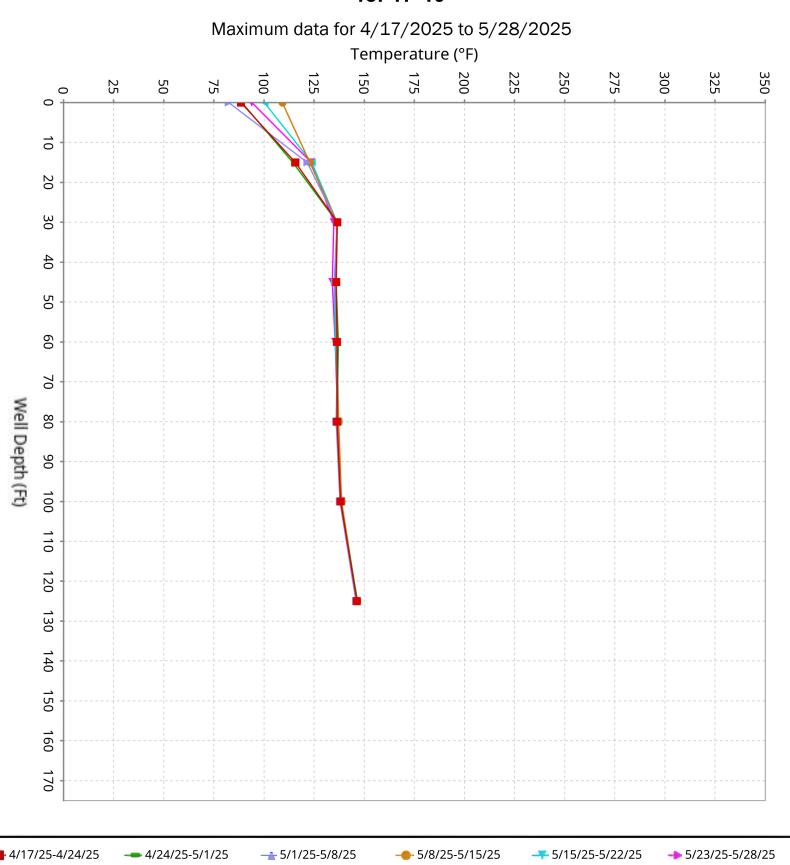


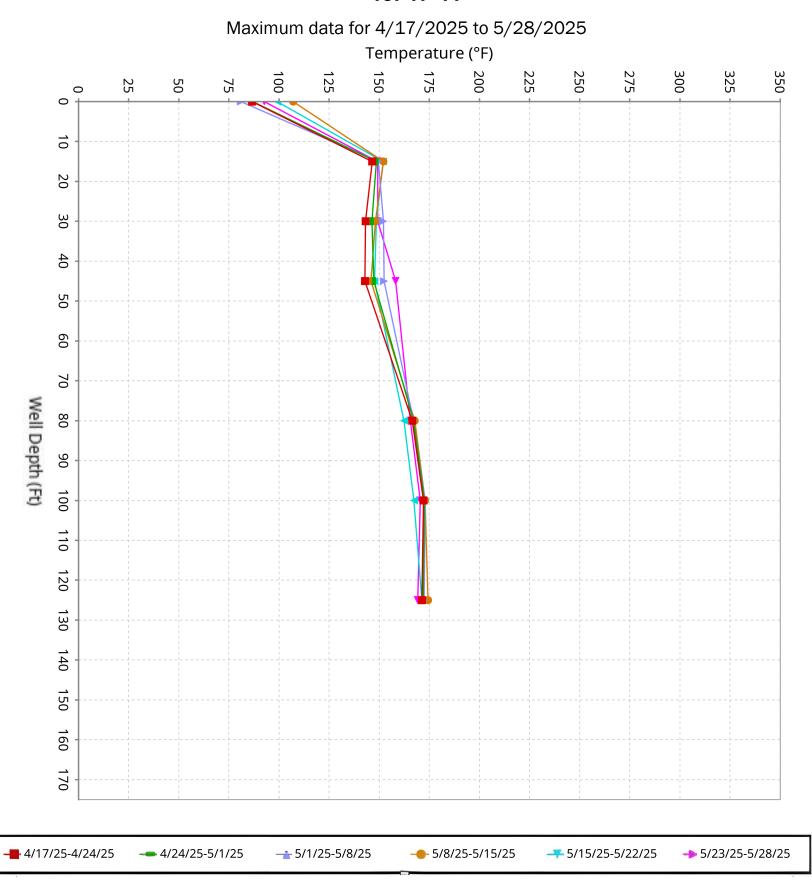


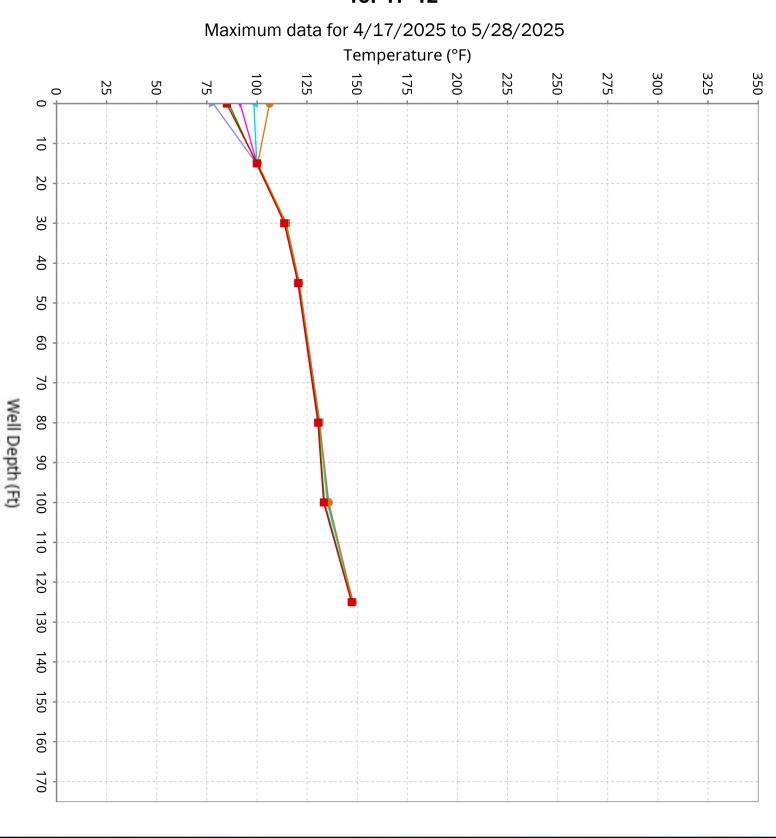












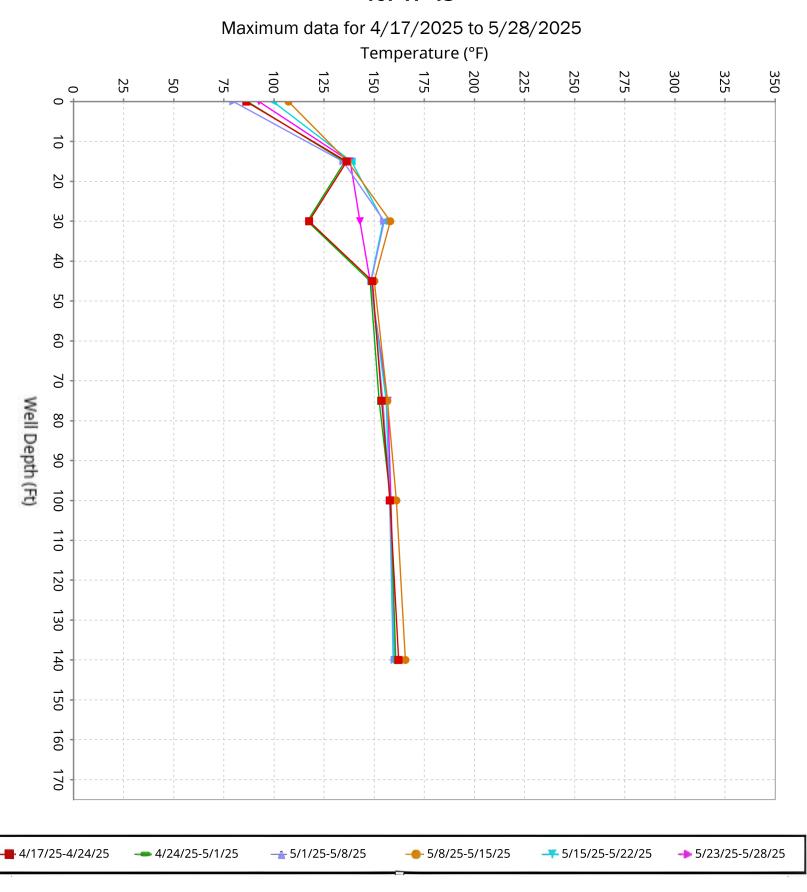
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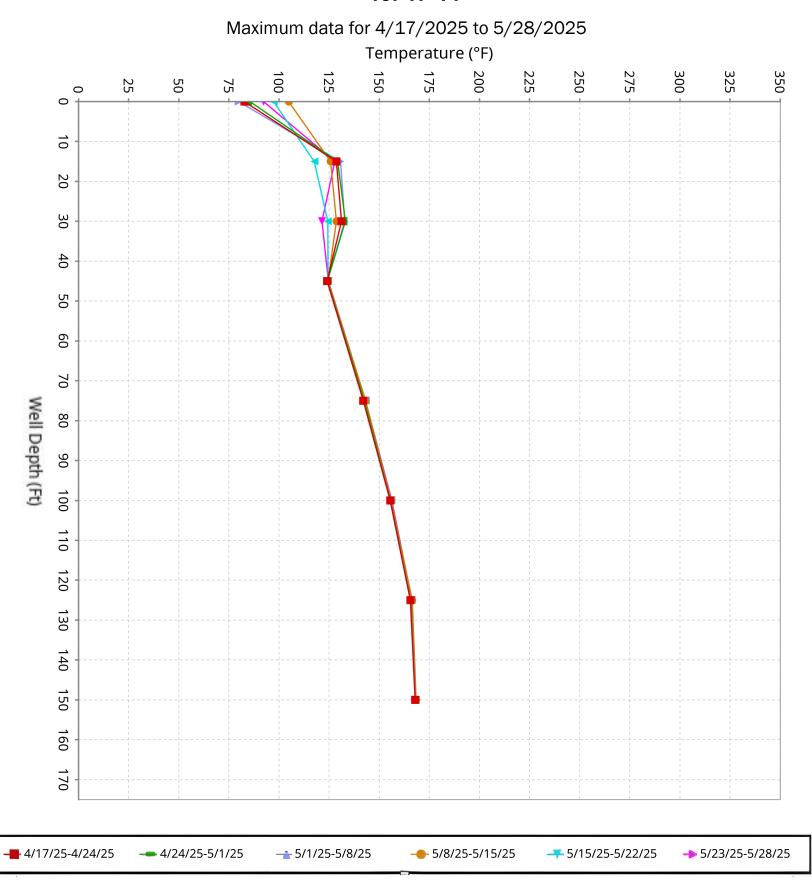
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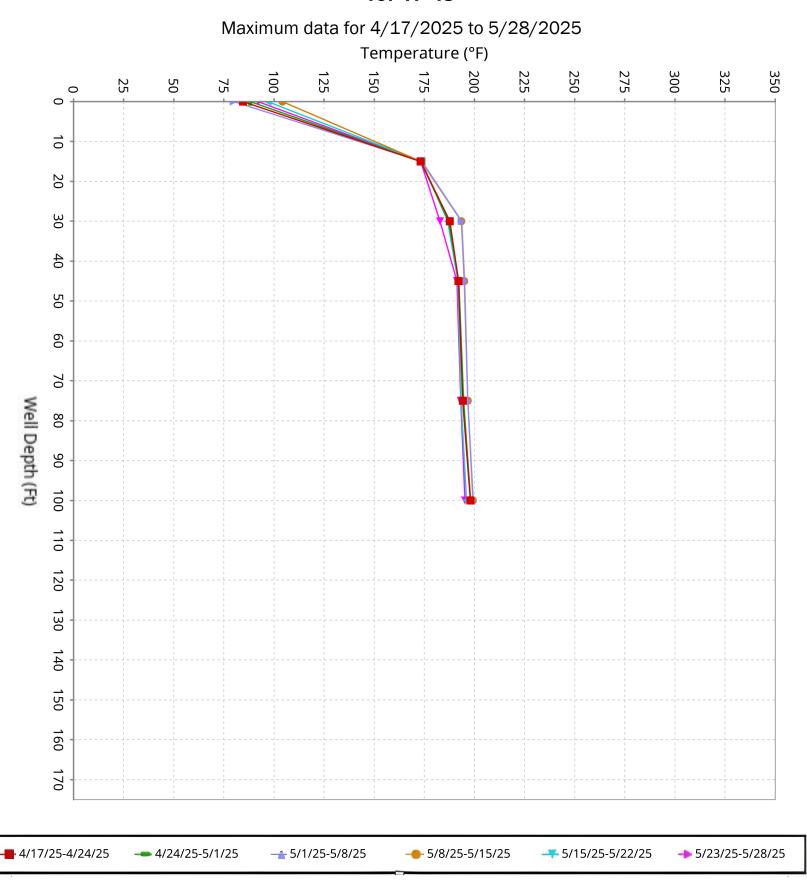
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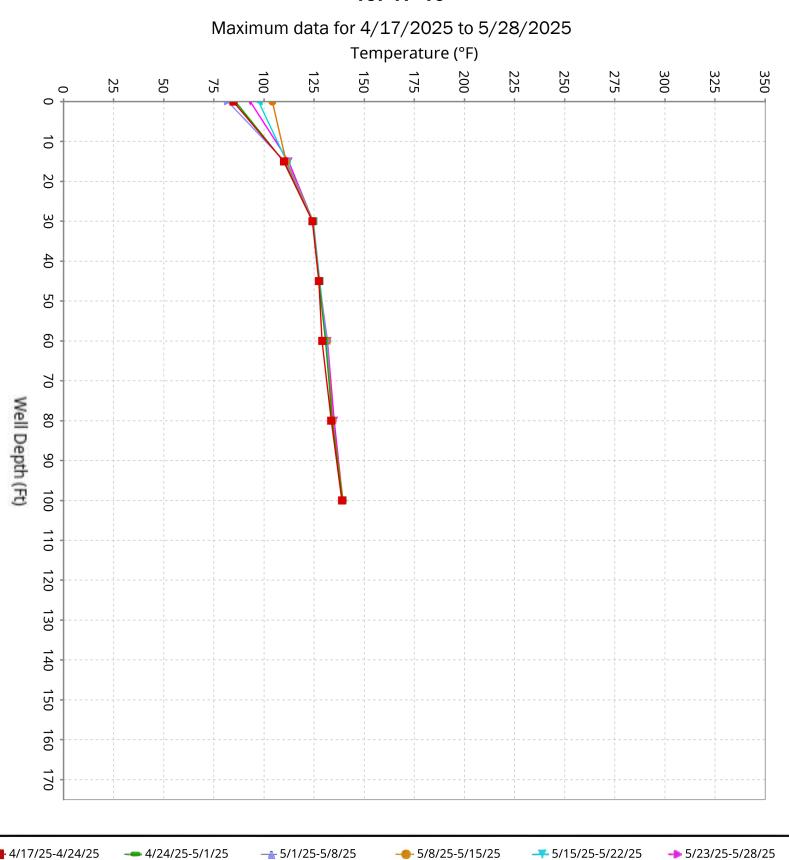
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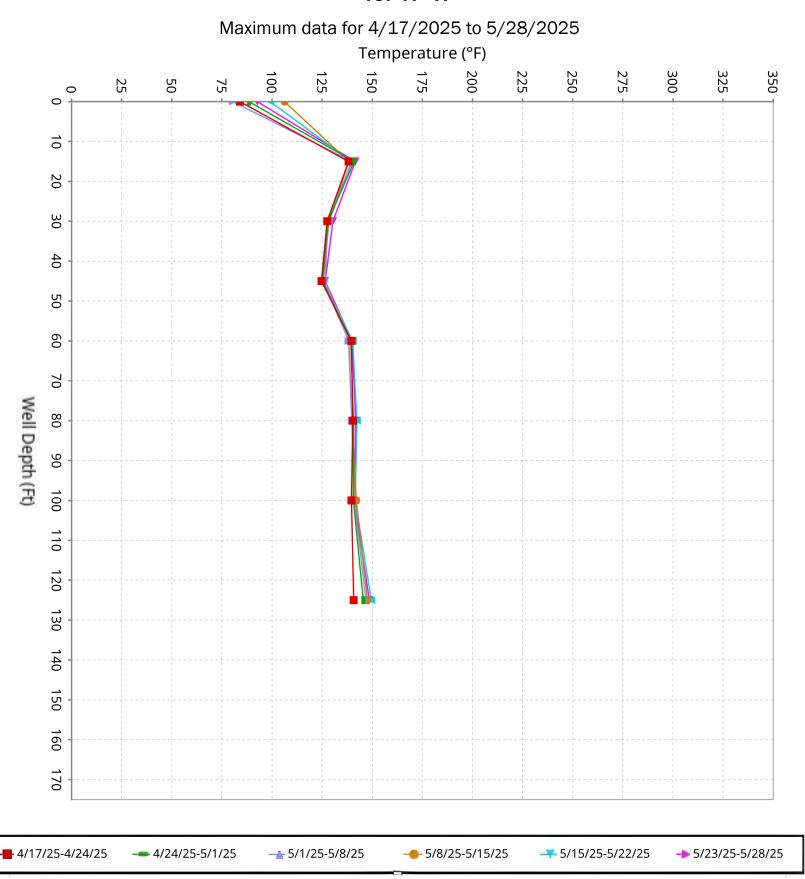
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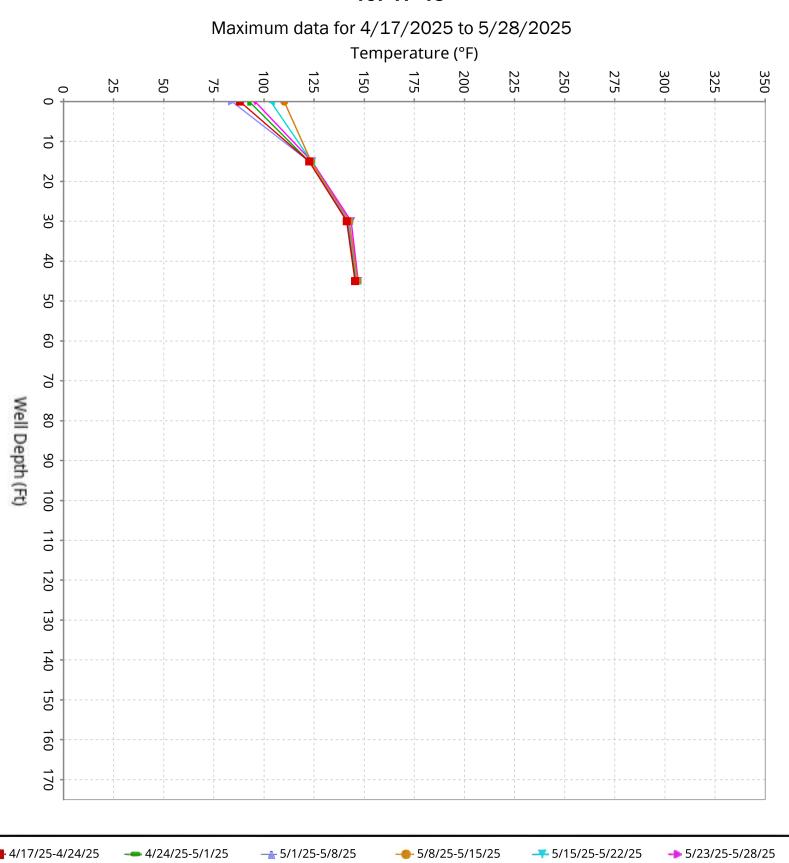


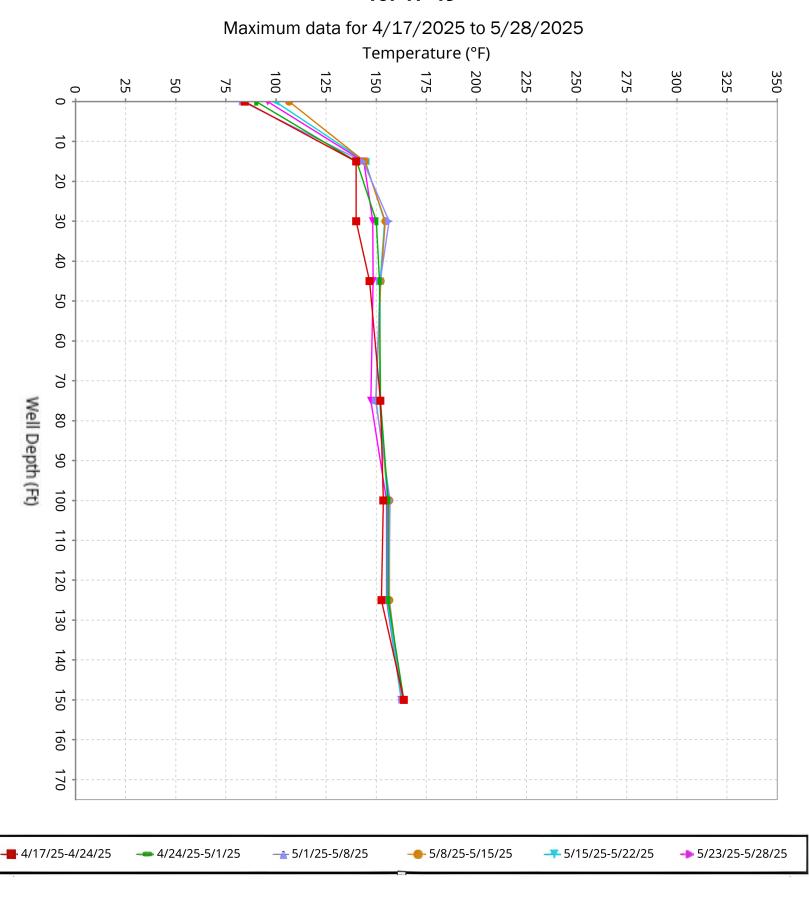


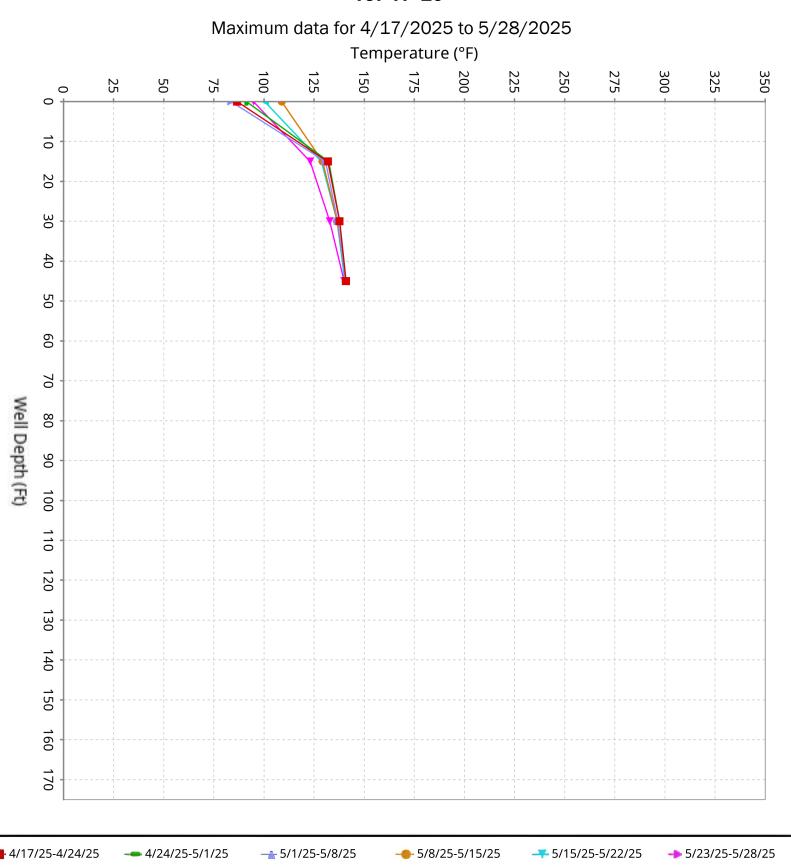


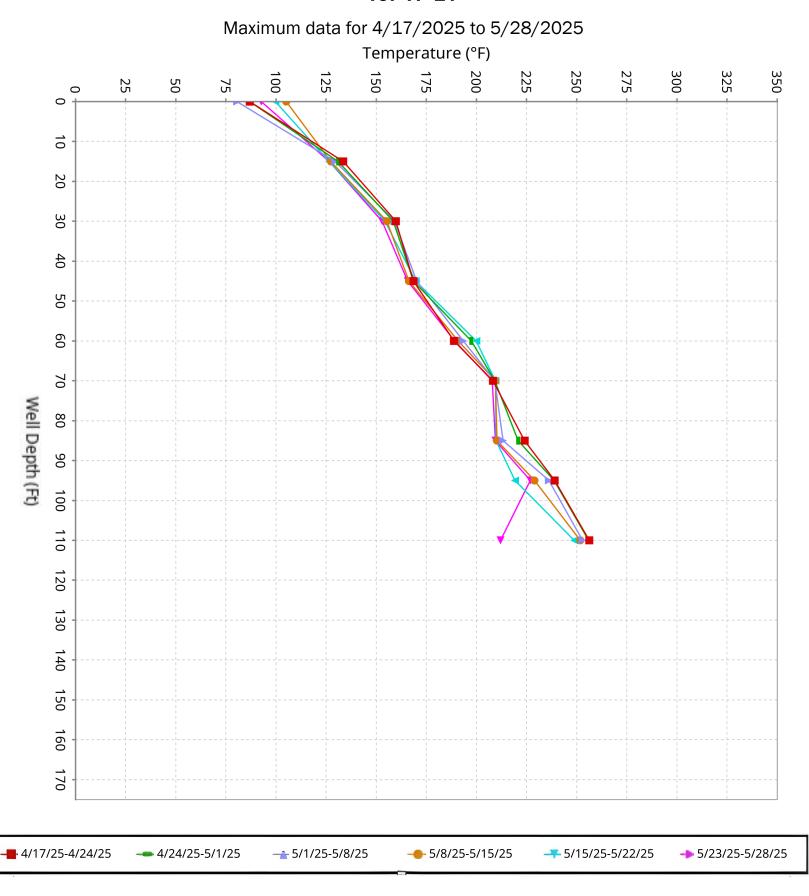


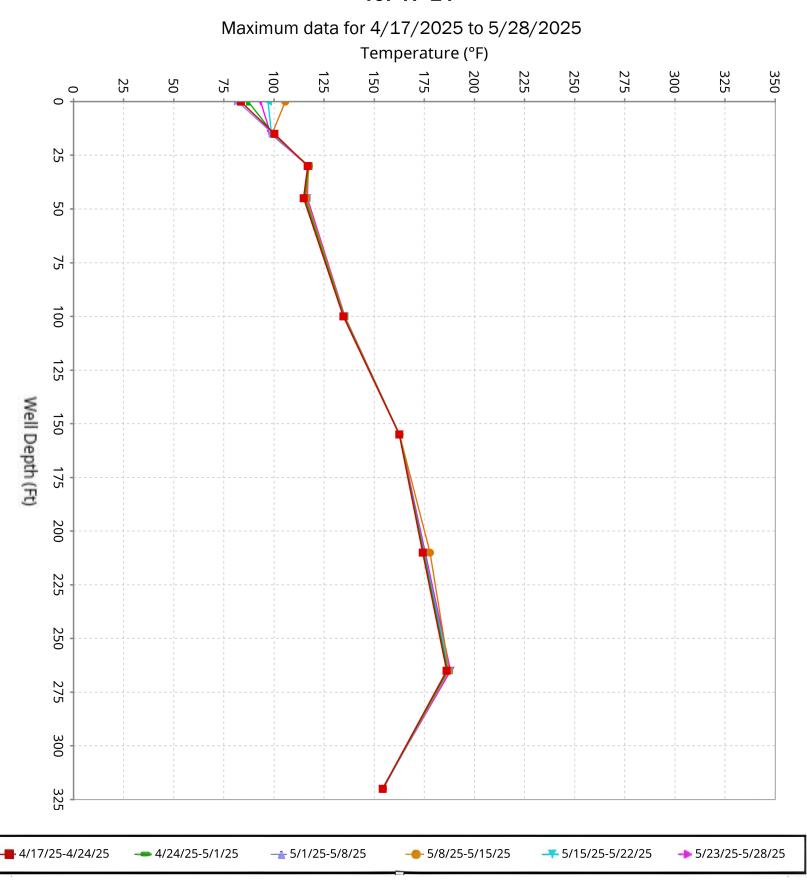


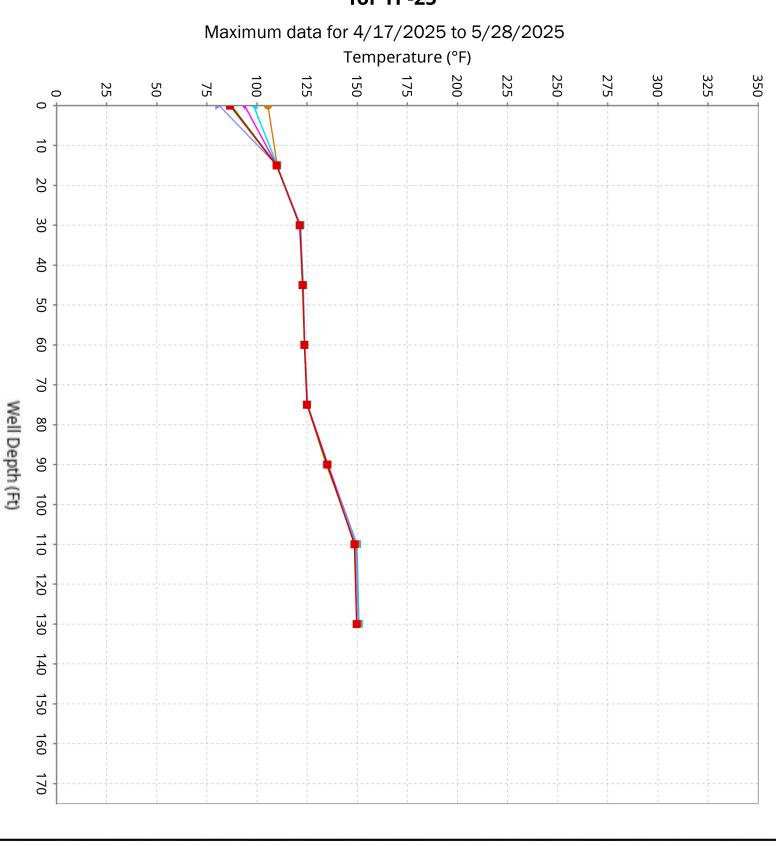












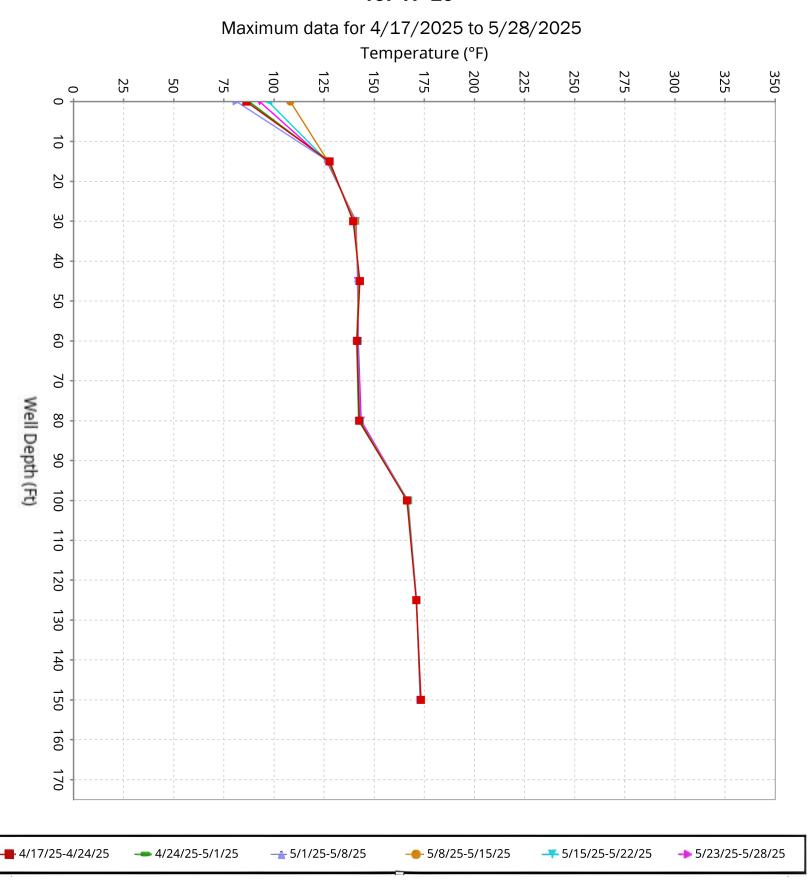
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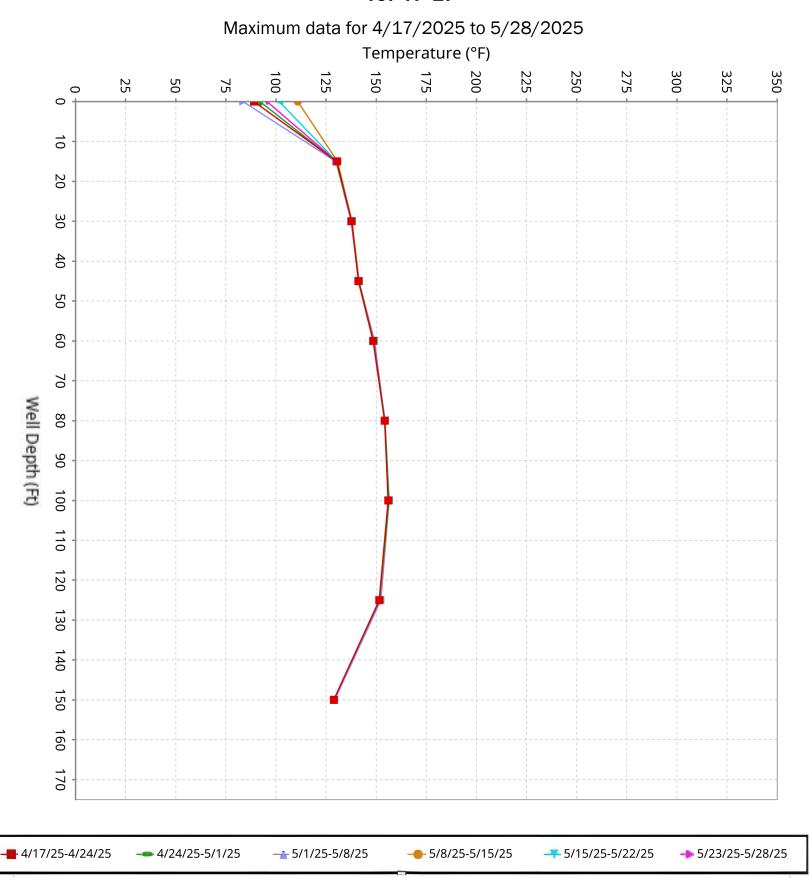
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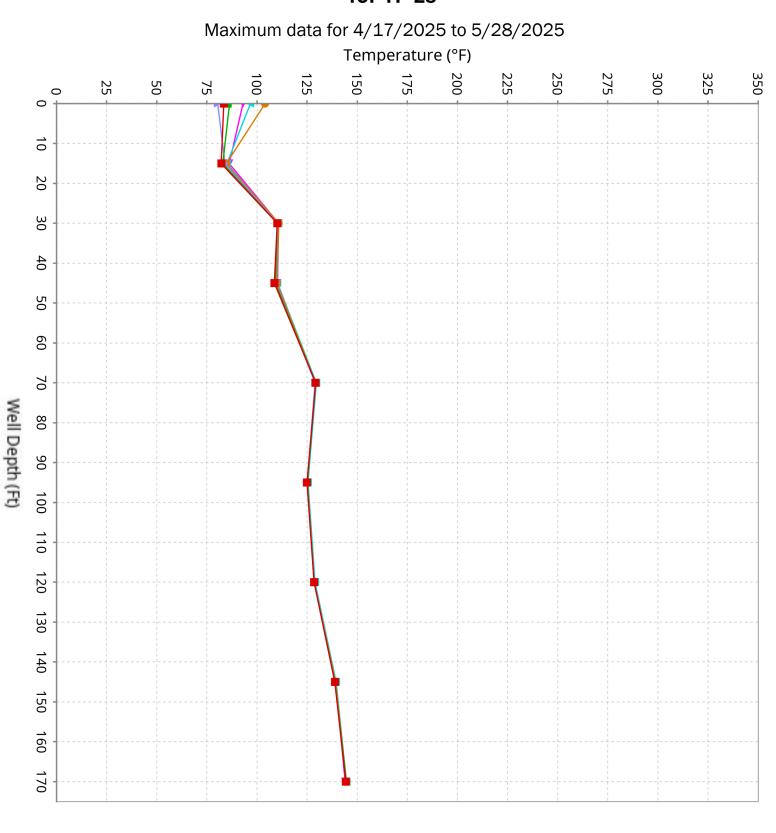
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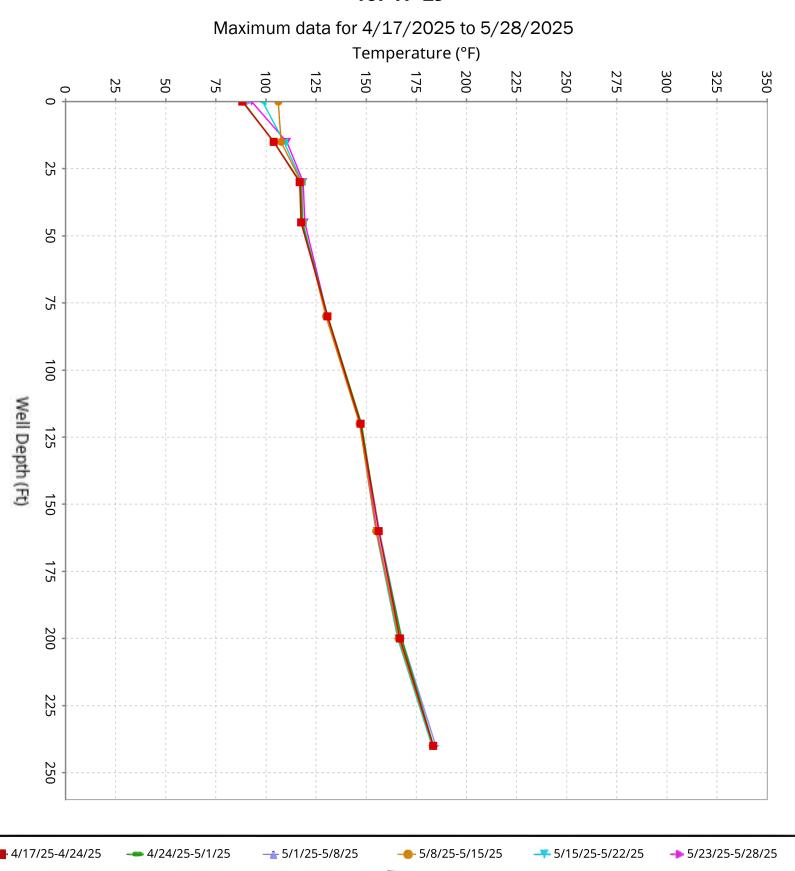
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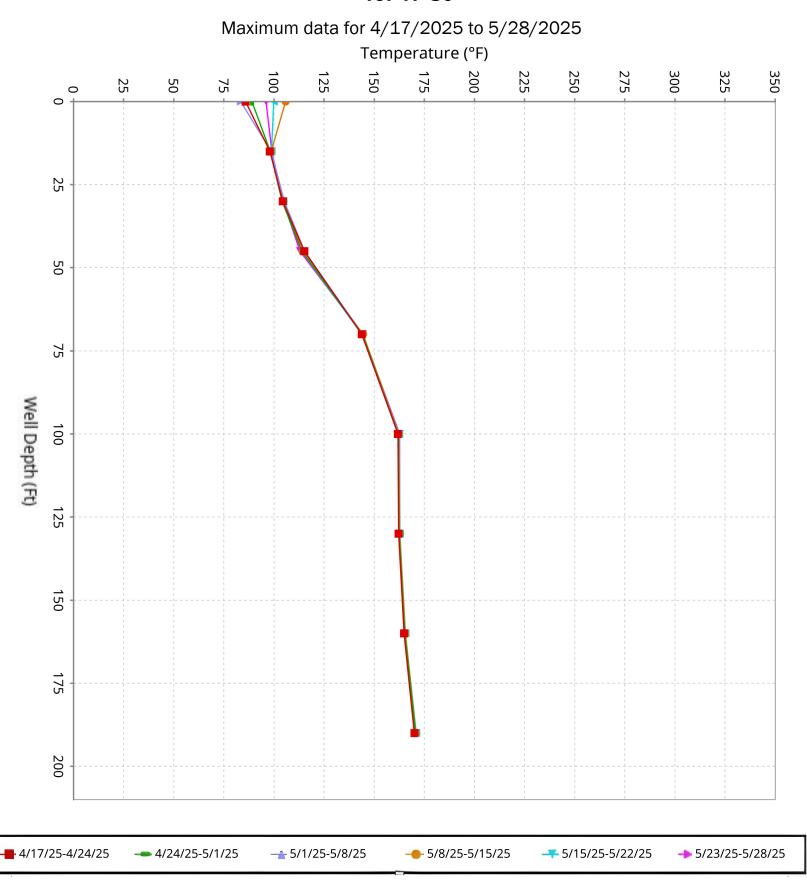
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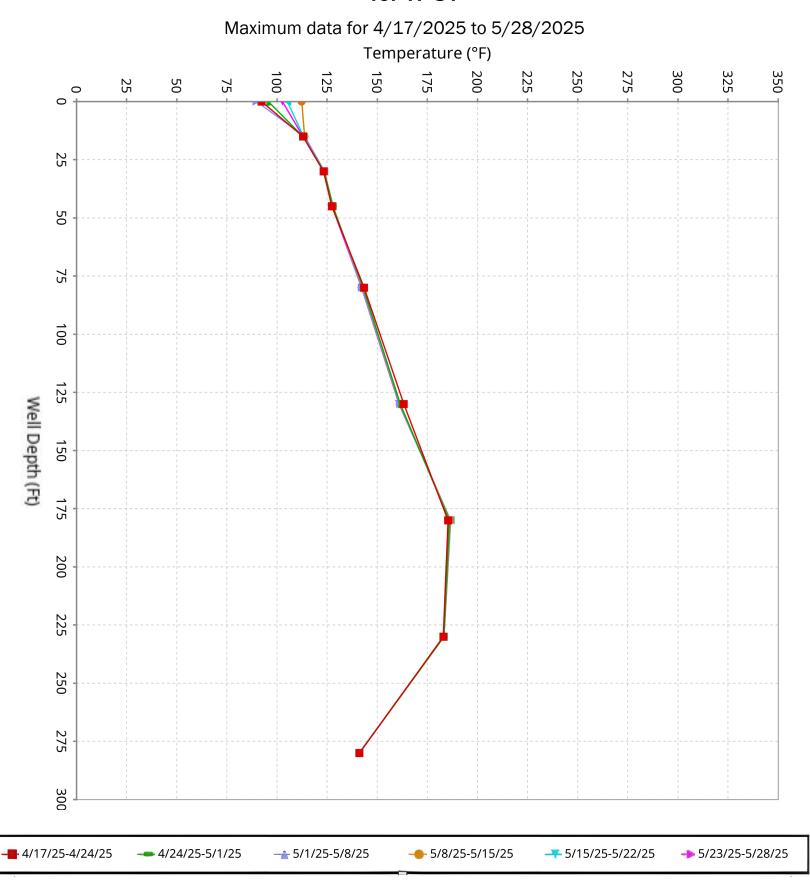
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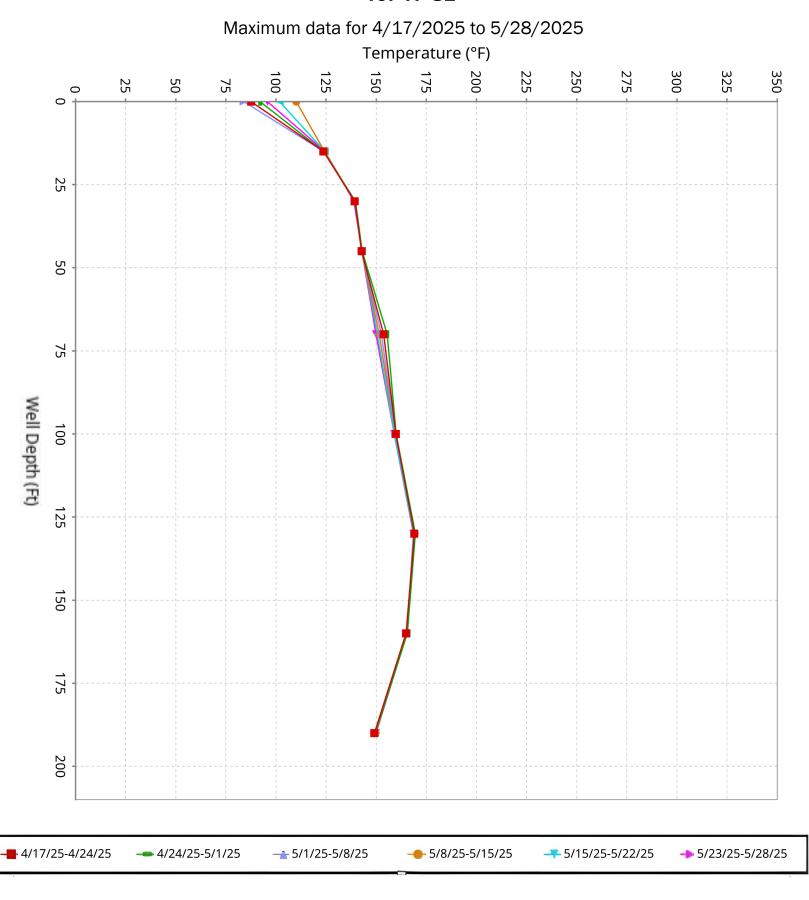
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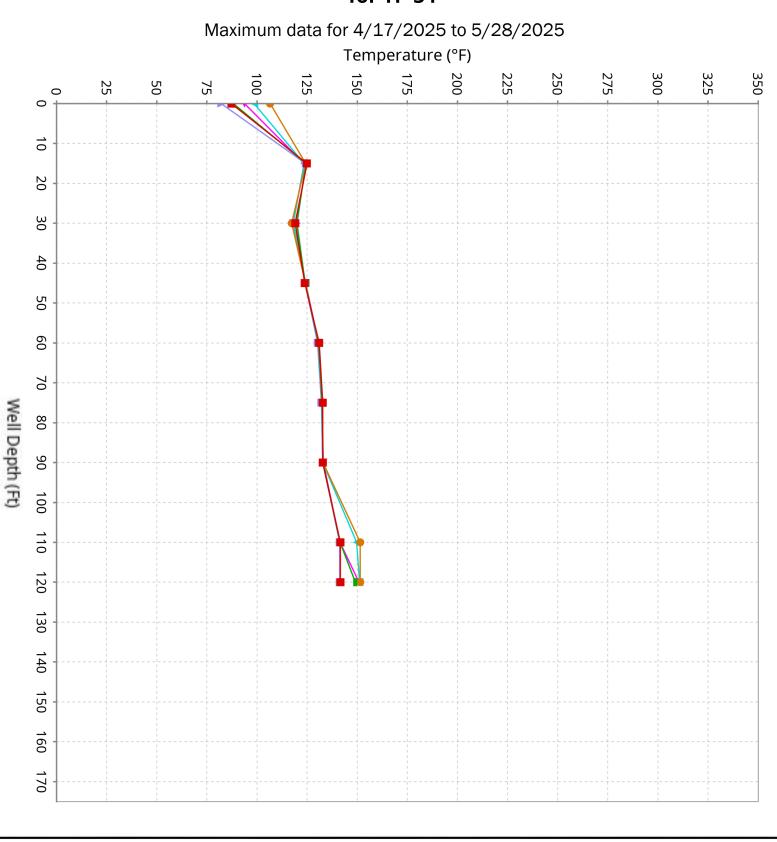
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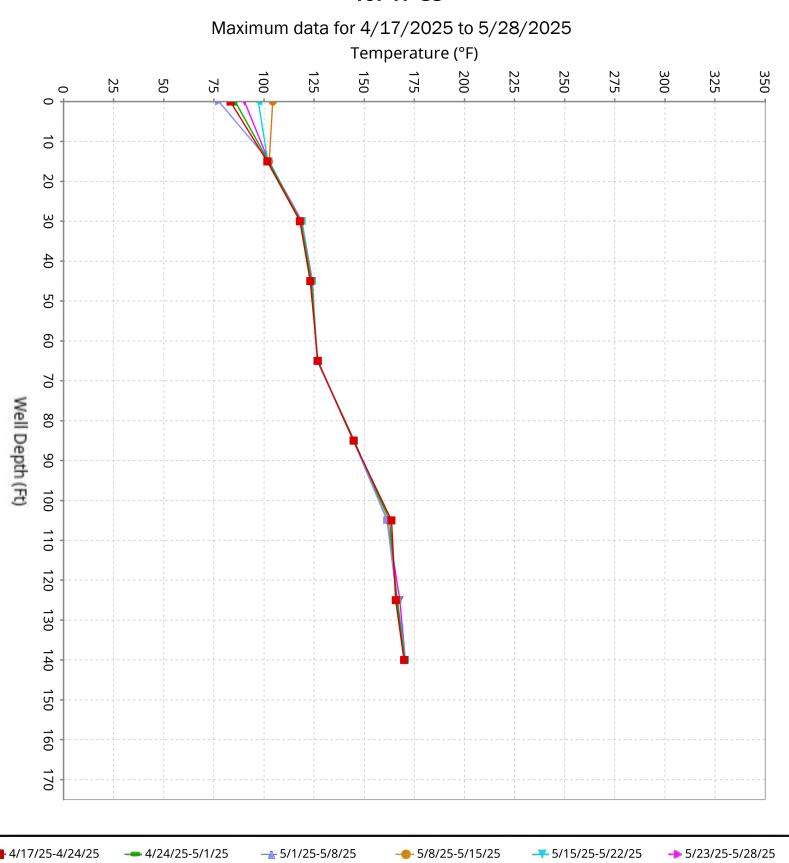
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Maximum Vertical Temperature Map from Temperature Probes at Chiquita Landfill

