Bridgeton Landfill, LLC

Weekly Data Submittals

Week of October 19-25, 2014

Required by Section 52.F of Agreed Order, Case No. 13SL-CC01088 Effective May 13, 2013

Contents:

Attachment A – Leachate Levels in Leachate Collection Sumps

Attachment B – Temperature Monitoring Probe Analytical Charts

Attachment C – Gas Interceptor Wellhead Temperature Graphs

Attachment D - Neck-Area Gas Extraction Wellhead Temperature Graphs

Provided Separately:

- Leachate Level in Leachate Collection Sump Raw Data Excel Spreadsheet
- Temperature Monitoring Probe Raw Data Excel Spreadsheet
- Gas Interceptor Well Reading Raw Data Excel Spreadsheet
- Neck-Area Gas Extraction Well Data Excel Spreadsheet

October 31, 2014 (revised November 3, 2014)

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

All graphs have been updated to reflect current and 13-month historic period of data. LCS-3C was removed from graphing as it was replaced by LCS-3D previously.

LCS-1D, -5A, and -6B were partially or fully operational during the weekly reporting period.

The pump in LCS-2D was off during the weekly monitoring event due to an "over current" error. Vendors are being solicited to provide pump repairs.

The transducer melted in LCS-3D in March 2014 and is currently non-operational. Due to high temperatures currently being encountered, no replacement is planned.

LCS-4B still exhibits excess pressure and liquid ejection, so it has not been fitted with a pump; however, the conditions are resulting in leachate removal from that location. Options for pumping from this location are currently under review.

Attachment B - Temperature Monitoring Probe Analytical Charts

The following TMPs indicated generally consistent profiles to previous observations: TMP-1, -2, -3, -4, -5, -6, -8, -9, -10, -11, -12, -14, -16, -17, and -18. However, it should be noted that the 80-foot interval of TMP-2, the 90-foot interval for TMP-9, the 15- and 35-foot intervals for TMP-11, and the 40-foot interval for TMP-14 increased slightly in the latest reading.

TMP-7, -7R, -13, and -15 have been removed from the presentation based on unreliable thermocouple measurements or other documented issues.

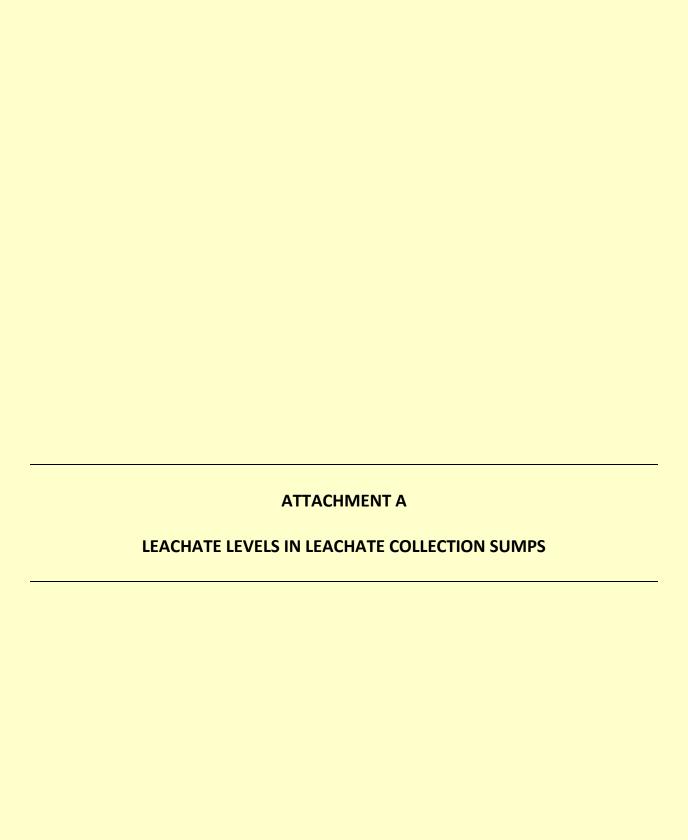
Attachment C - Gas Interceptor Wellhead Temperature Graphs

There are currently water circulation cooling loops installed in the Gas Interceptor Wells (GIW)-2 through GIW-7, and GIW-10. Gas temperatures have dropped dramatically in these wells. However, gas data was not collected during the week from GIW-3 due to operational access.

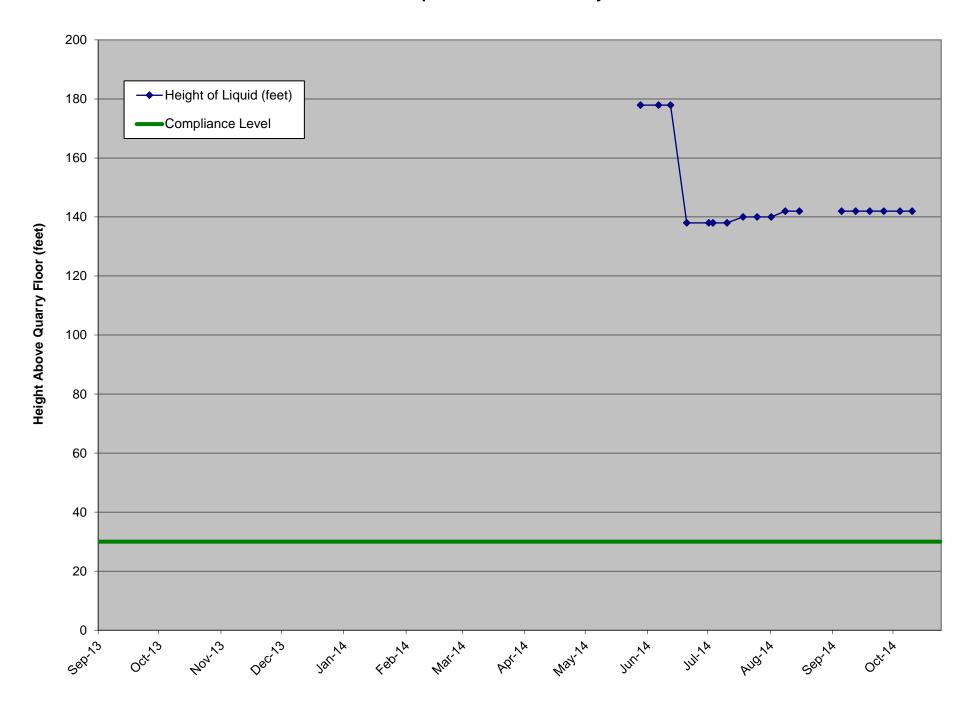
For the remaining four wells without a cooling system installed (GIW-1, -8, -9, -12, and -13), temperatures were trending steady to slightly higher from the beginning to the end of the week. Temperatures in GIW-8 increased over the past week, by 30 degrees (from a low of 52 to a high of 82 degrees F), when the pump was repaired, liquid levels lowered, with a resulting increase in gas flow.

Attachment D – Neck Area Gas Extraction Well Data

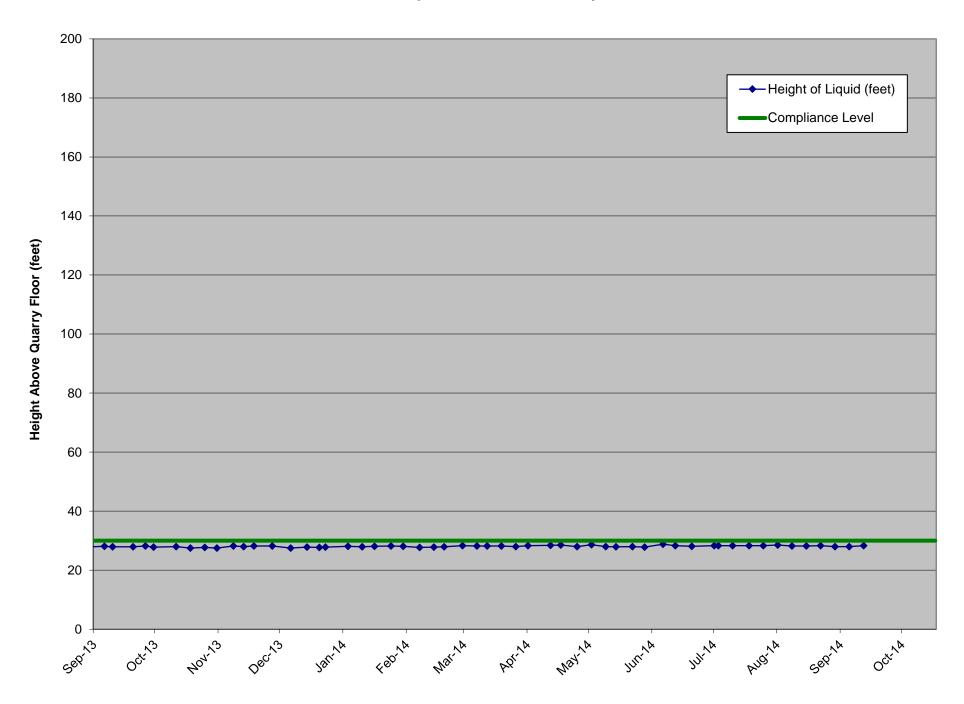
Per request of MDNR, weekly gas temperature data is being submitted for the following neck-area gas extraction wells (GEW)s: GEW-08, -09, -10, -38, -39, -40, -41R, -43R, -53, -54, -55, -56R, -109.



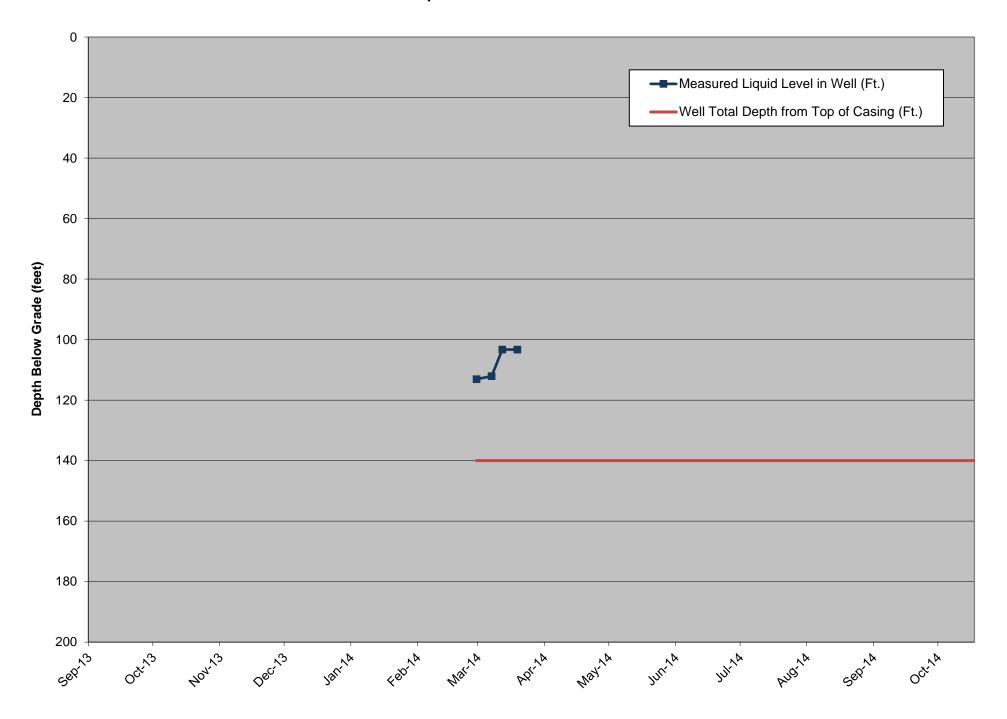
LCS-1D Liquid Level Above Quarry Floor



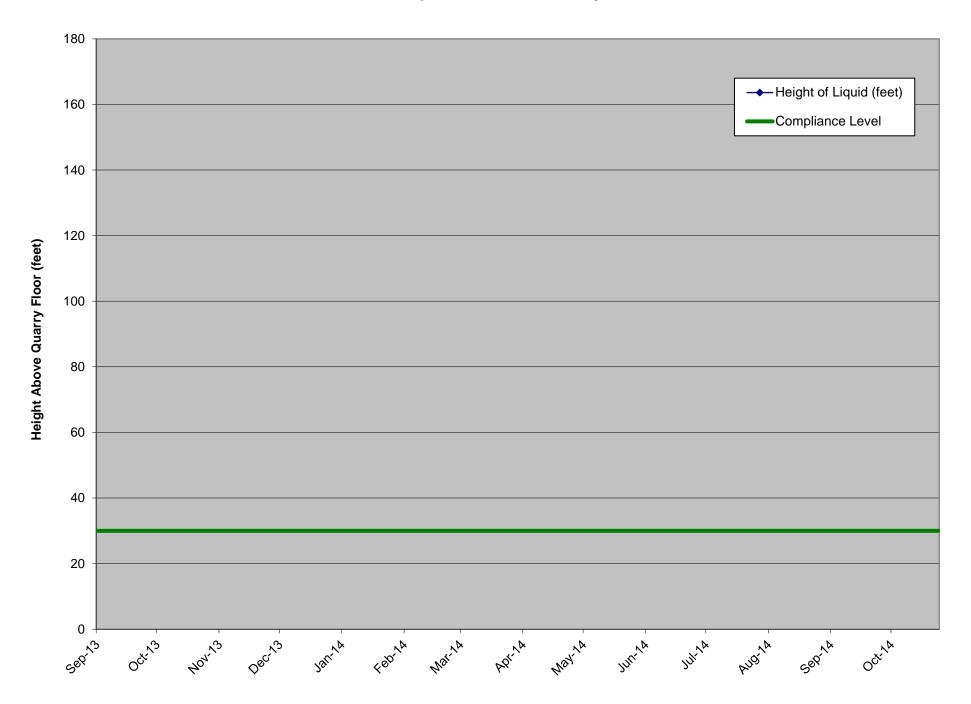
LCS-2D Liquid Level Above Quarry Floor



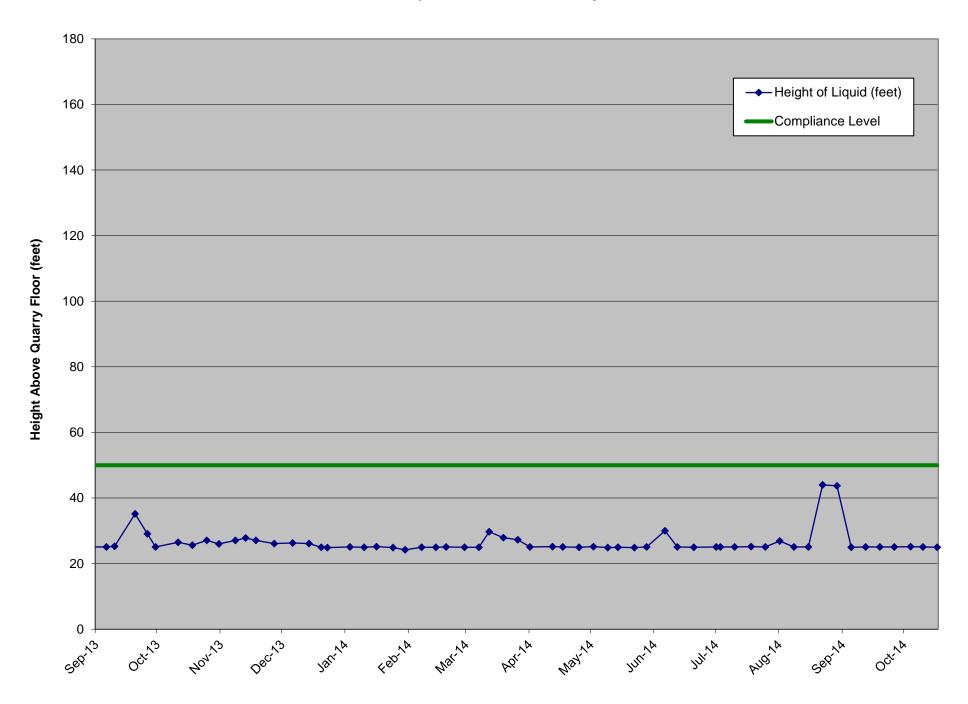
LCS-3D Liquid Level Below Ground Surface



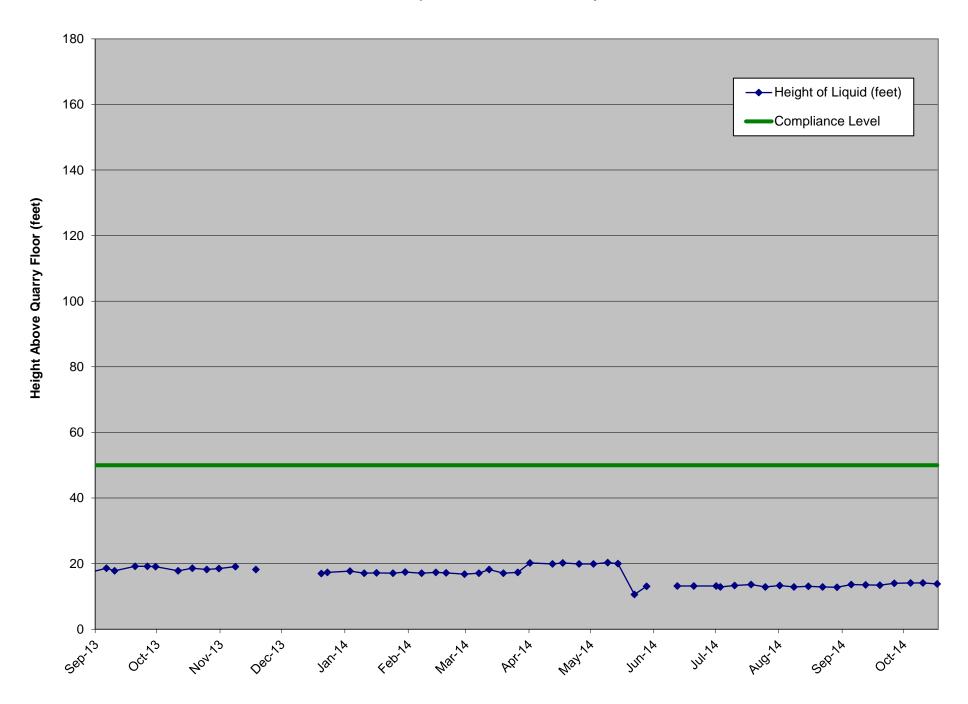
LCS-4B Liquid Level Above Quarry Floor

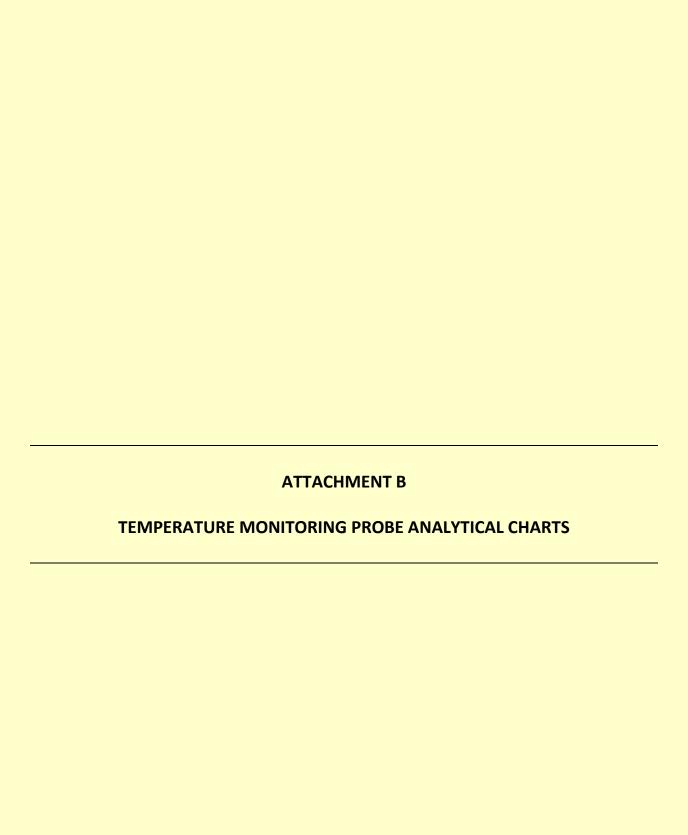


LCS-5A Liquid Level Above Quarry Floor

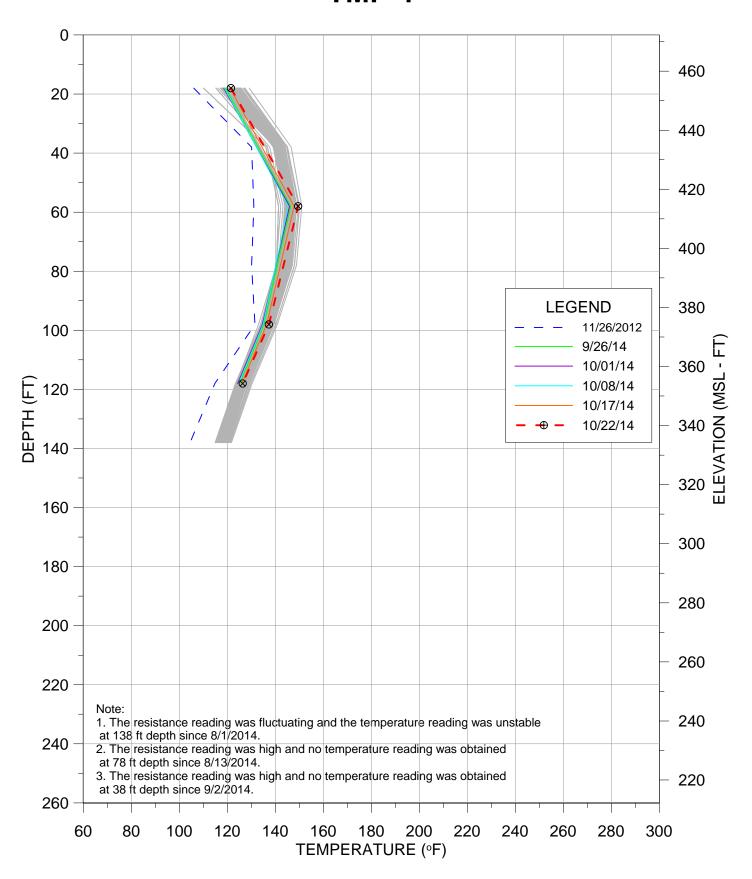


LCS-6B Liquid Level Above Quarry Floor

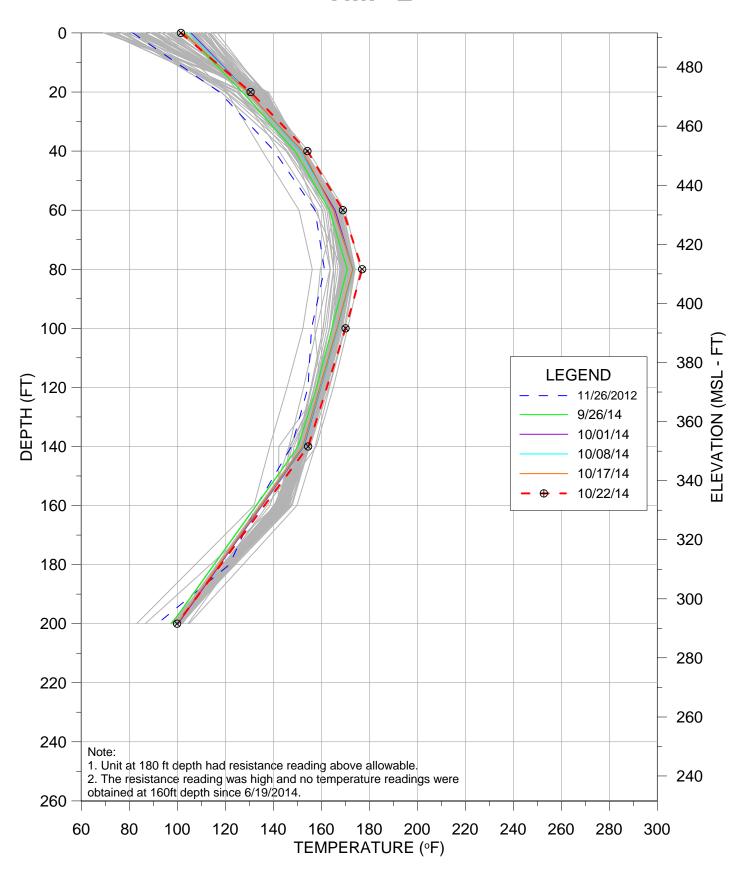




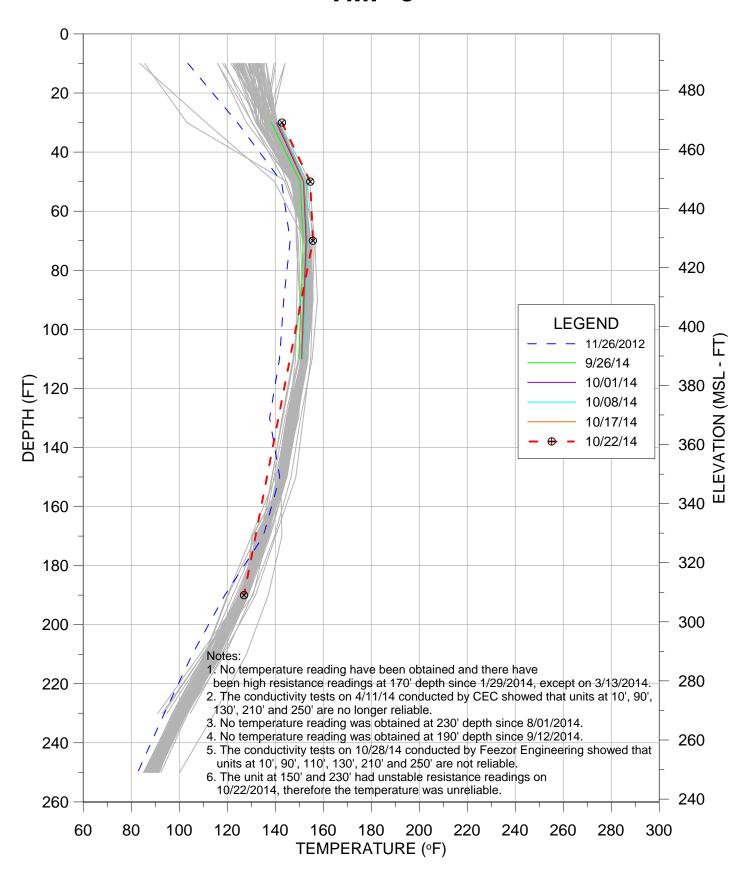
TMP-1



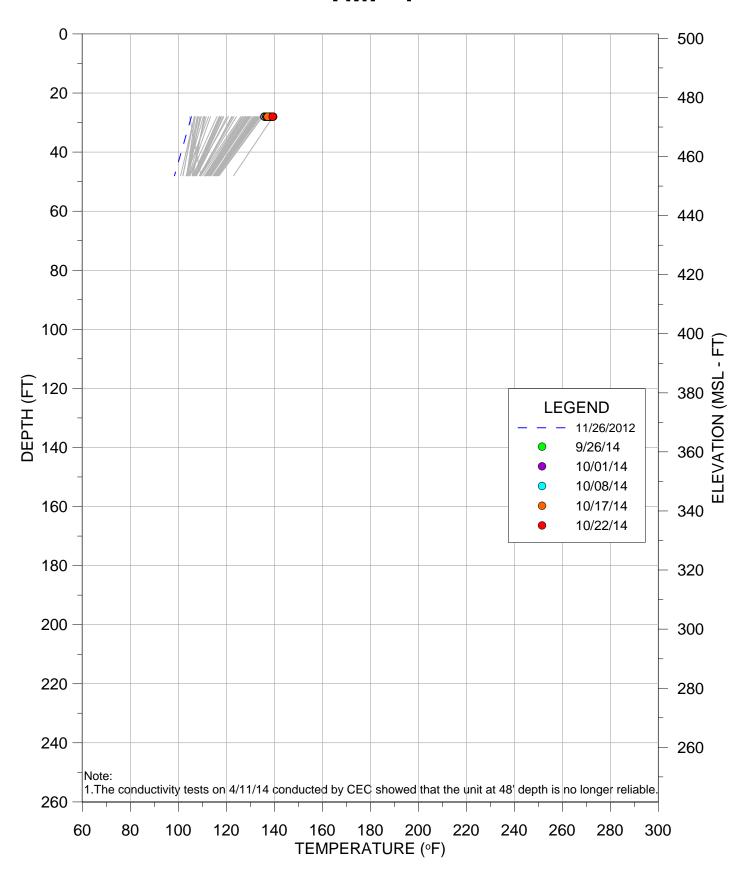
TMP-2



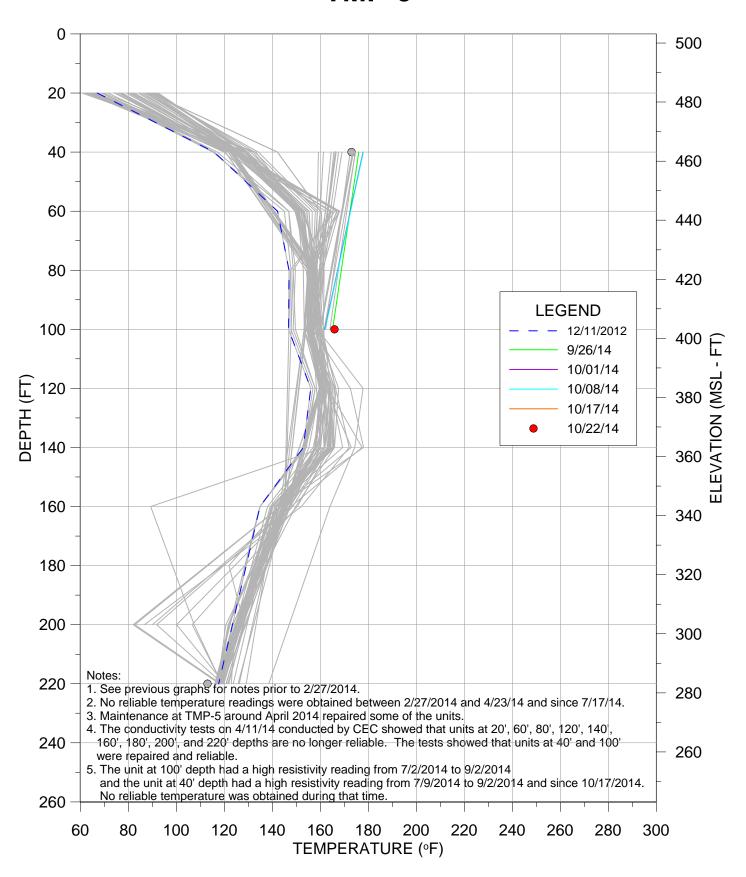
TMP-3



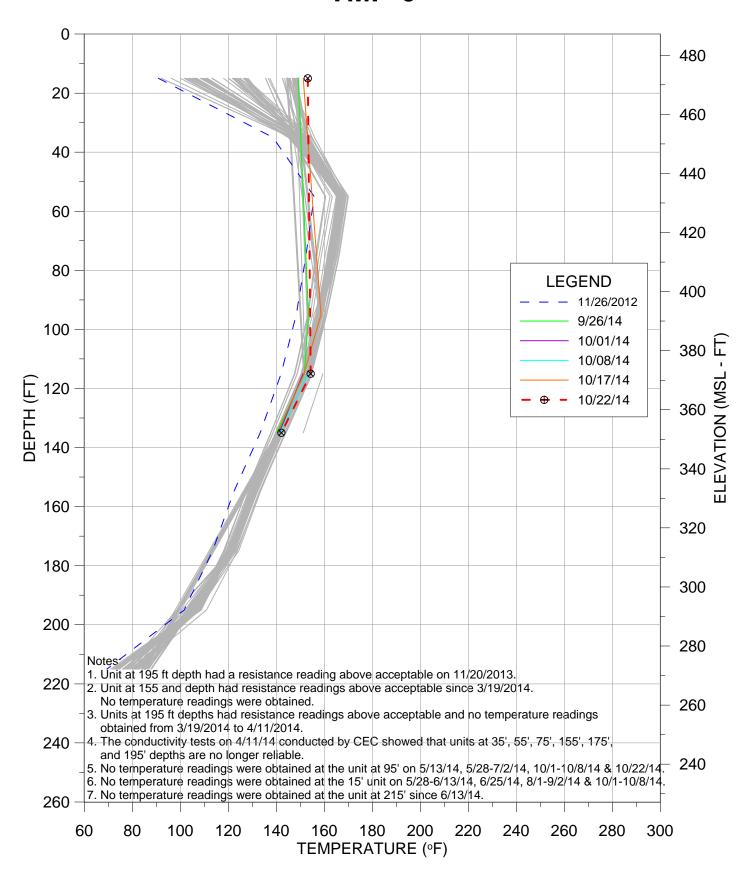
TMP-4



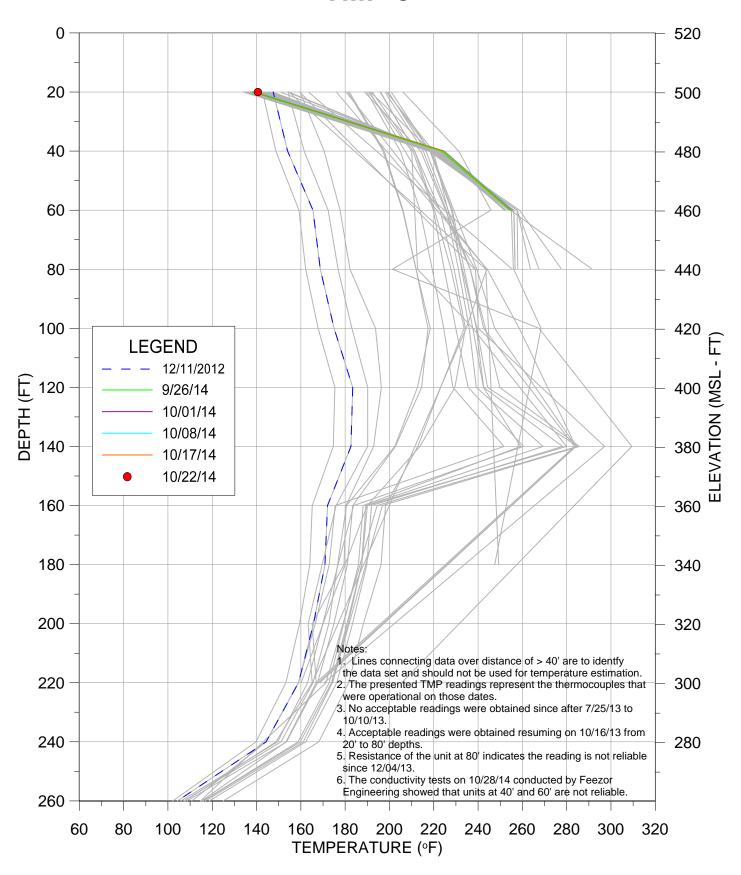
TMP-5



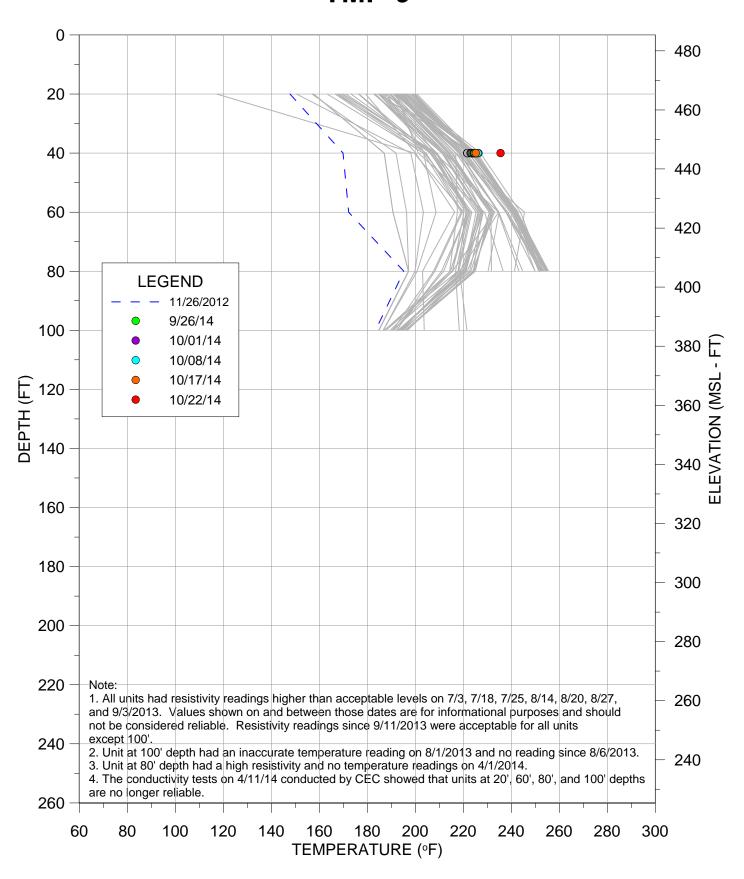
TMP-6



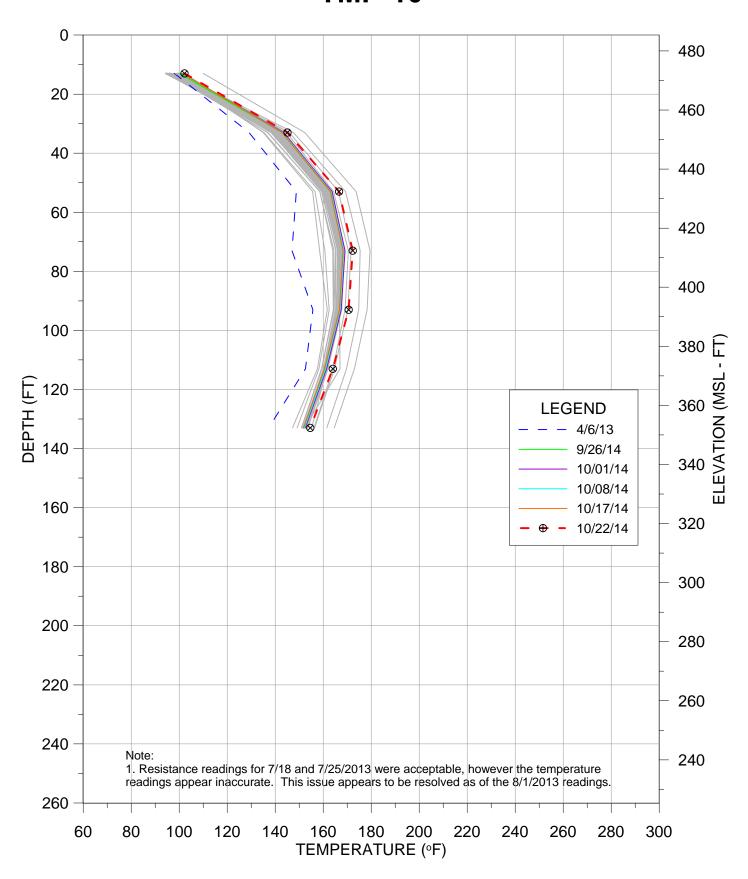
TMP-8



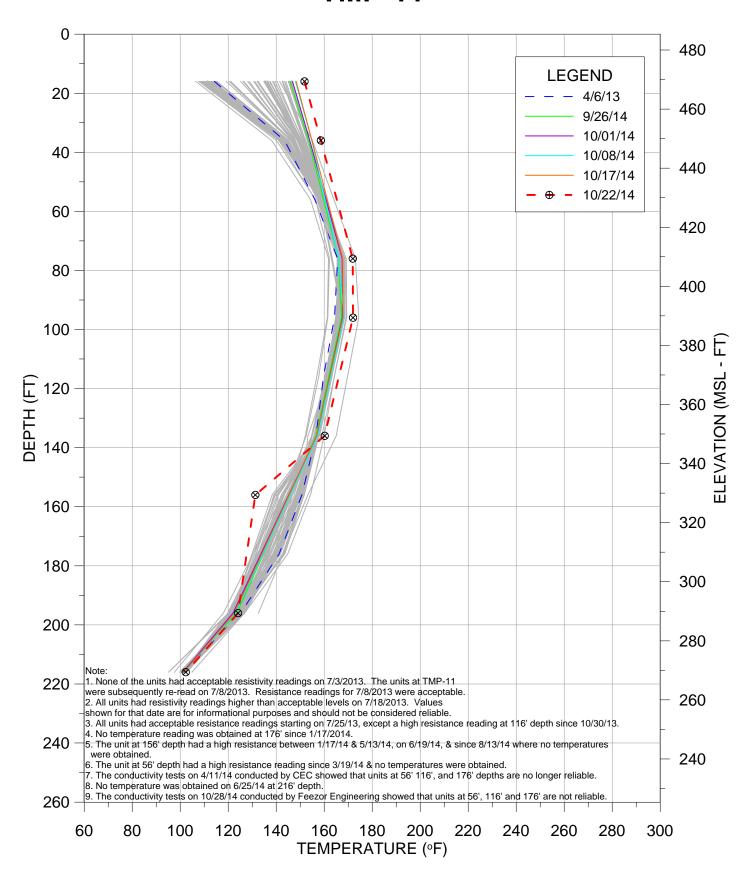
TMP-9



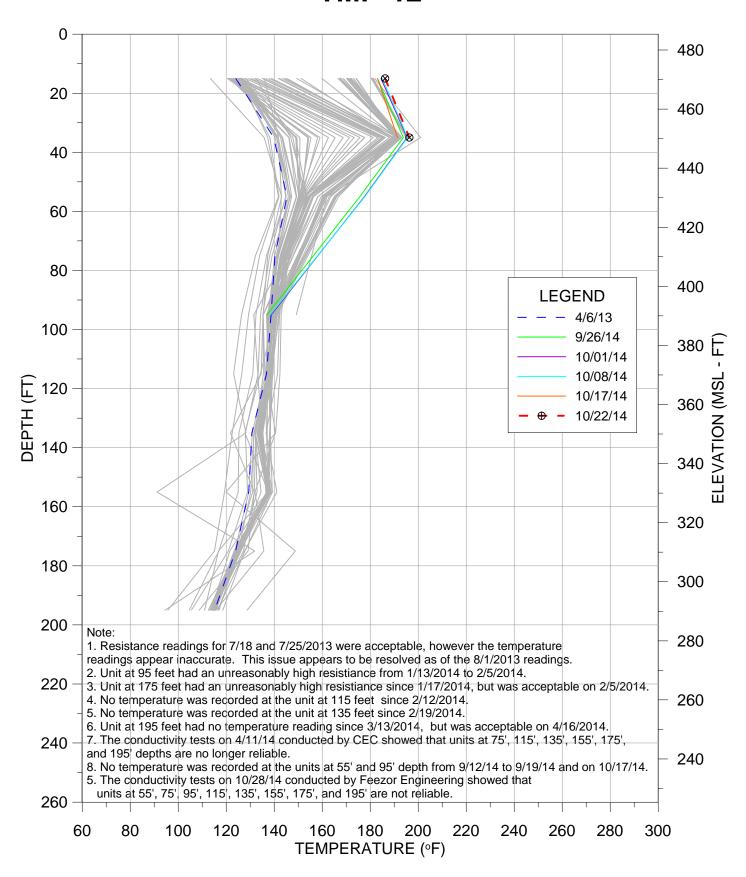
TMP-10



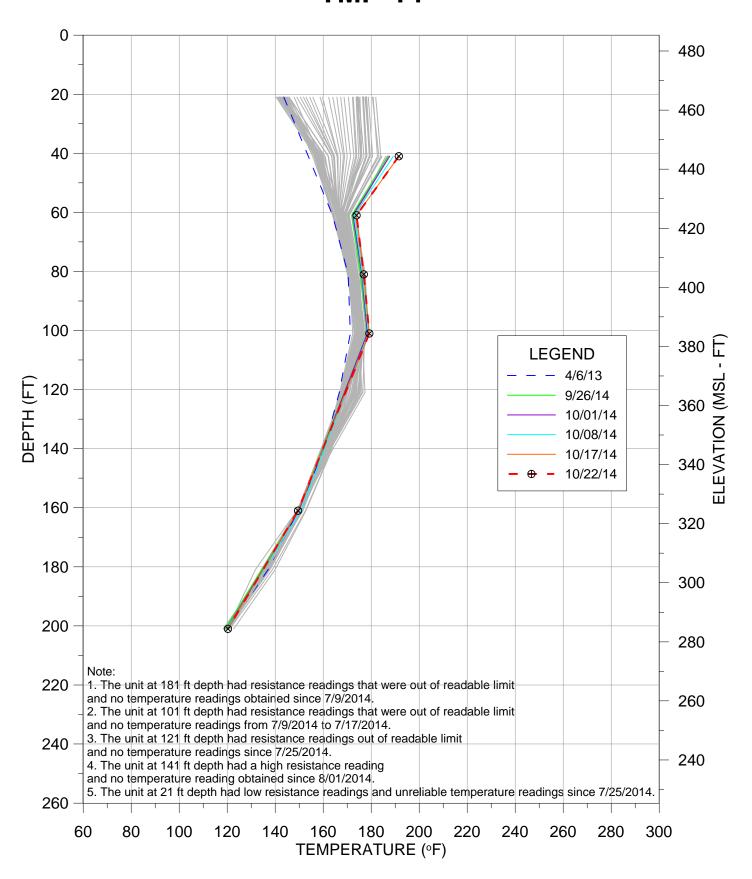
TMP-11



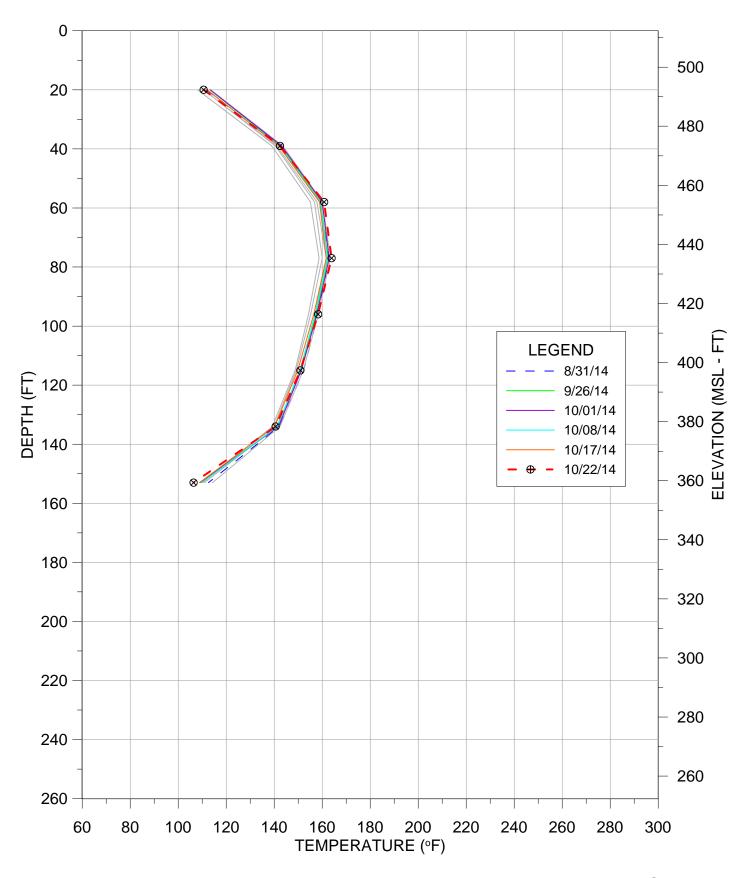
TMP-12



TMP-14

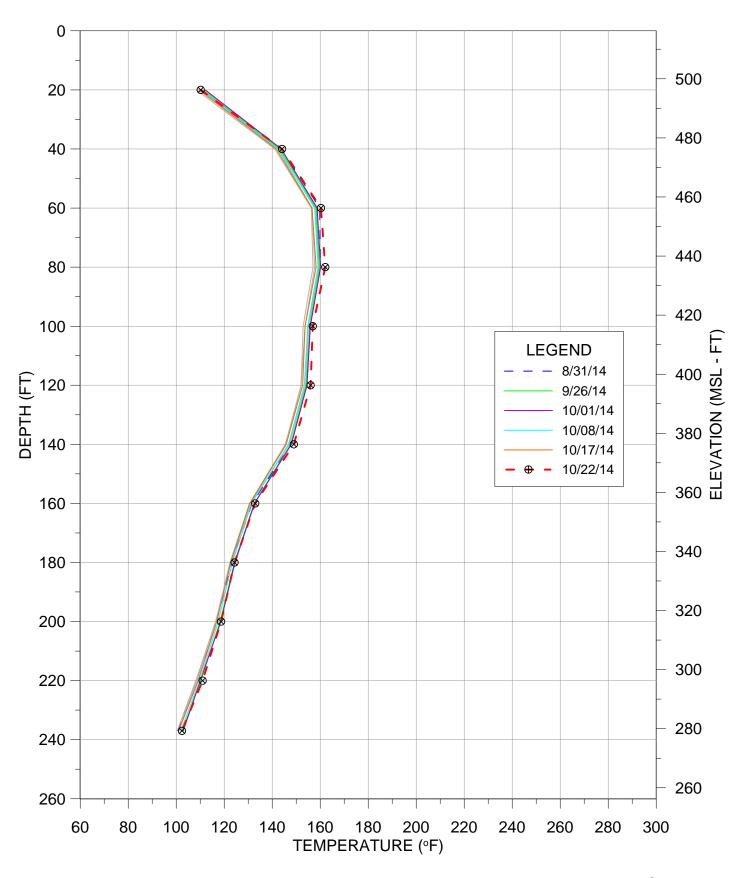


TMP-16



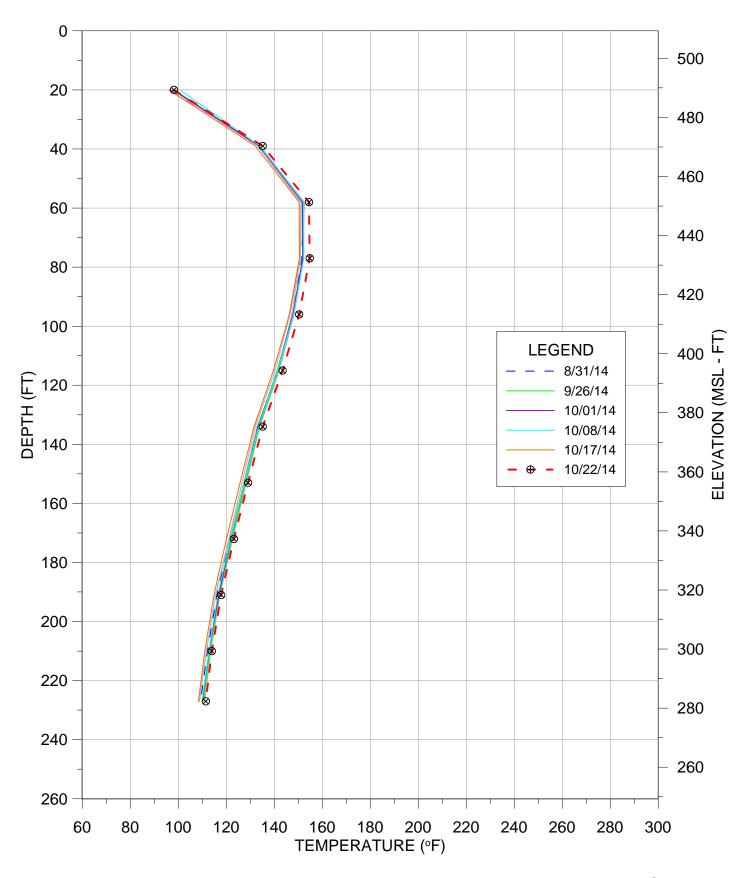
TEMPERATURE VS DEPTH BRIDGETON LANDFILL

TMP-17



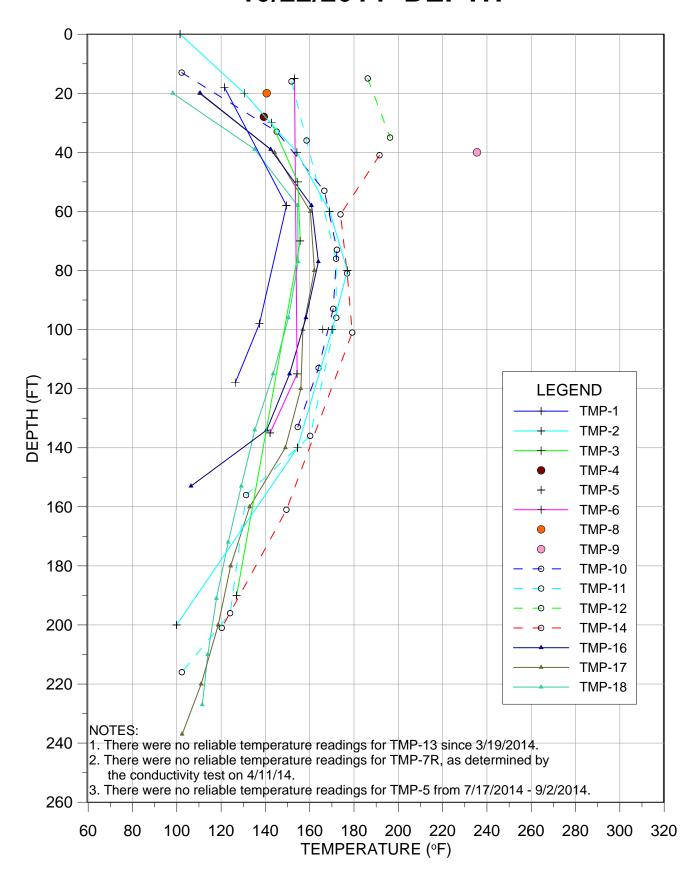
TEMPERATURE VS DEPTH BRIDGETON LANDFILL

TMP-18

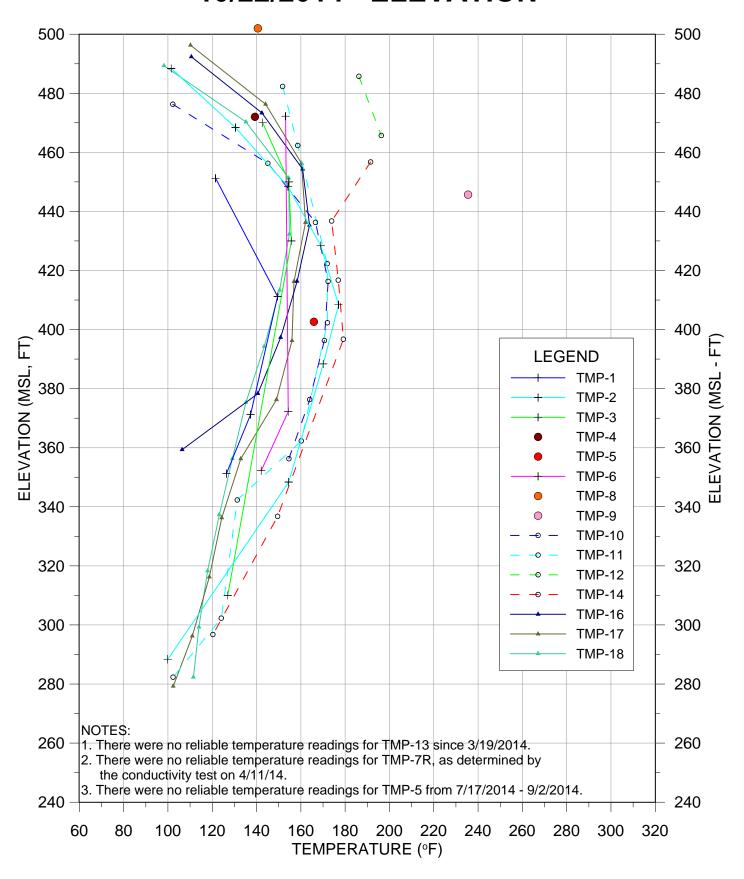


TEMPERATURE VS DEPTH BRIDGETON LANDFILL

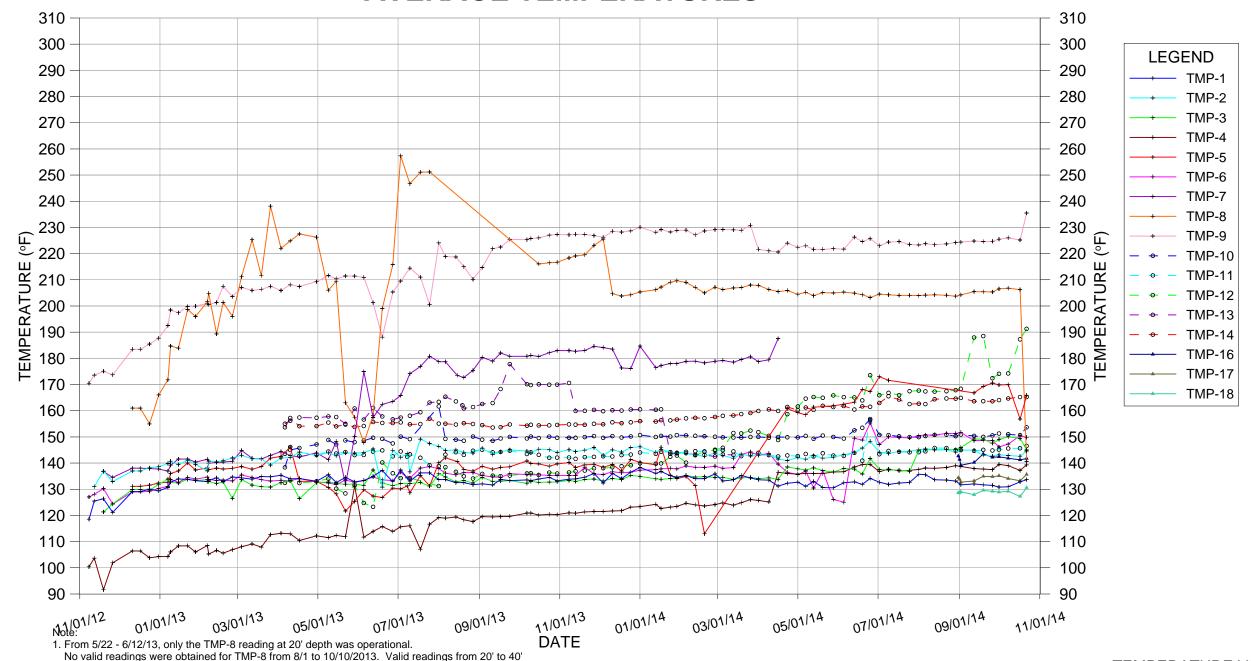
10/22/2014 -DEPTH



10/22/2014 - ELEVATION



AVERAGE TEMPERATURES



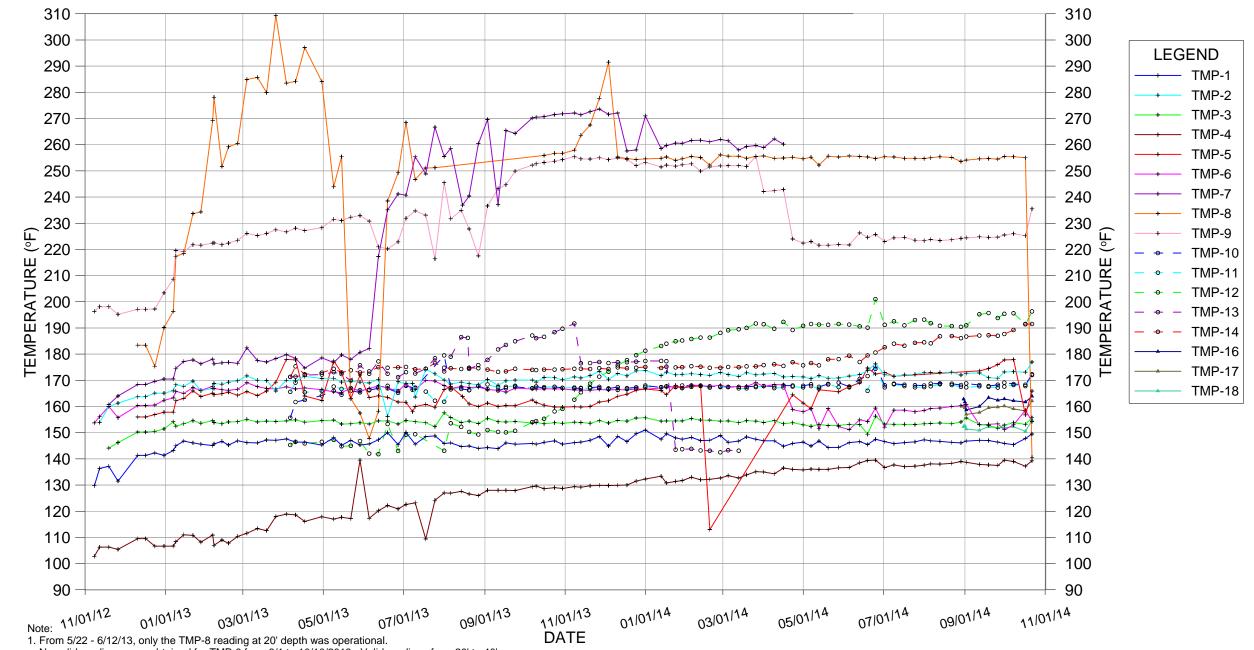
resumed on 10/16/2013.

2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild readings.

TEMPERATURE VS TIME BRIDGETON LANDFILL

No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.
 End terminals were replaced just prior to the 8/6/2013 readings with type T Omega connectors (part # SMPW-CC-T-M) on all TMPs except for TMP-8.

MAXIMUM TEMPERATURES



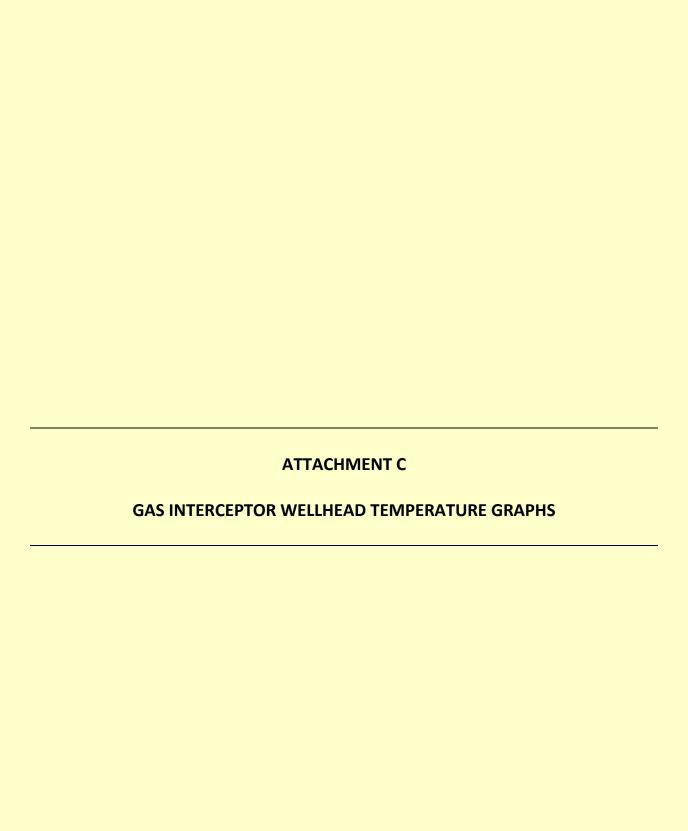
No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.

TEMPERATURE VS TIME BRIDGETON LANDFILL

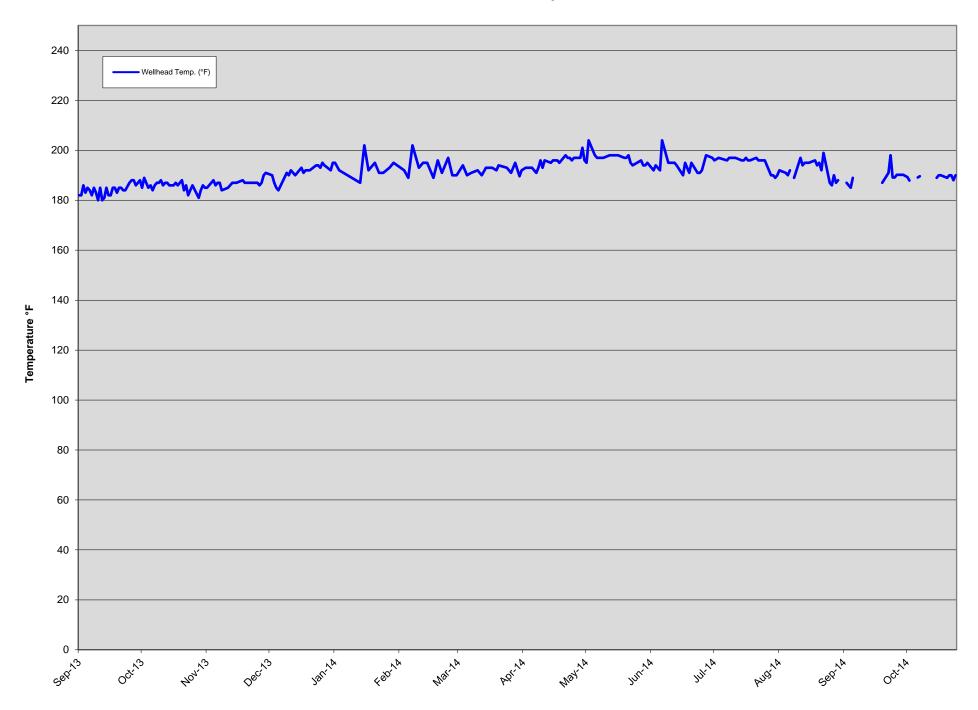
^{2.} A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild readings.

^{3.} No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.

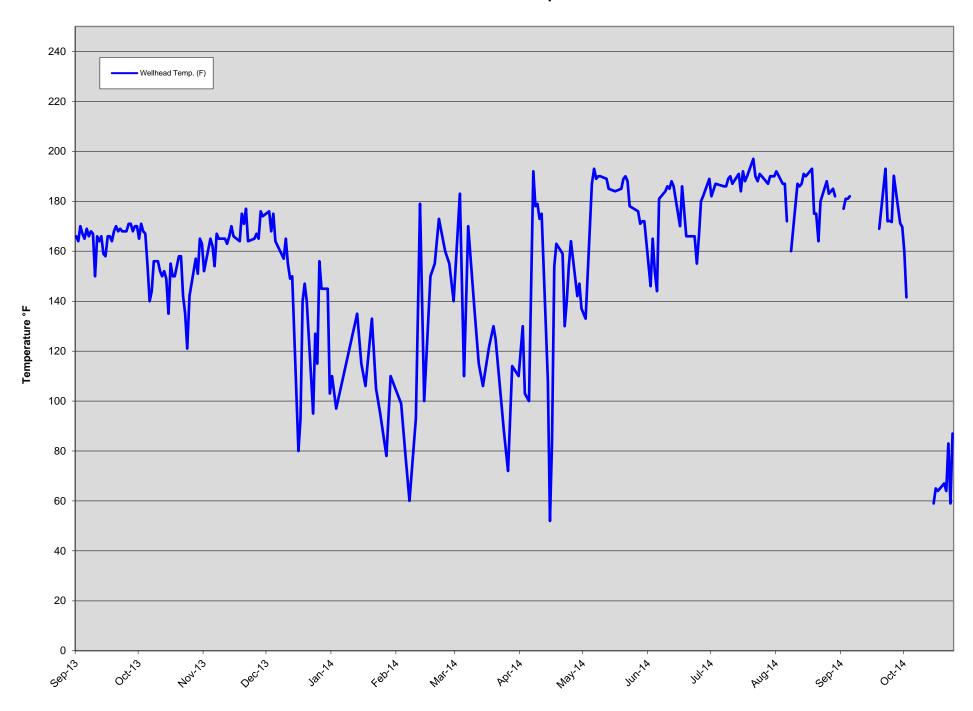
^{4.} End terminals were replaced just prior to the 8/6/2013 readings with type T Omega connectors (part # SMPW-CC-T-M) on all TMPs except for TMP-8.



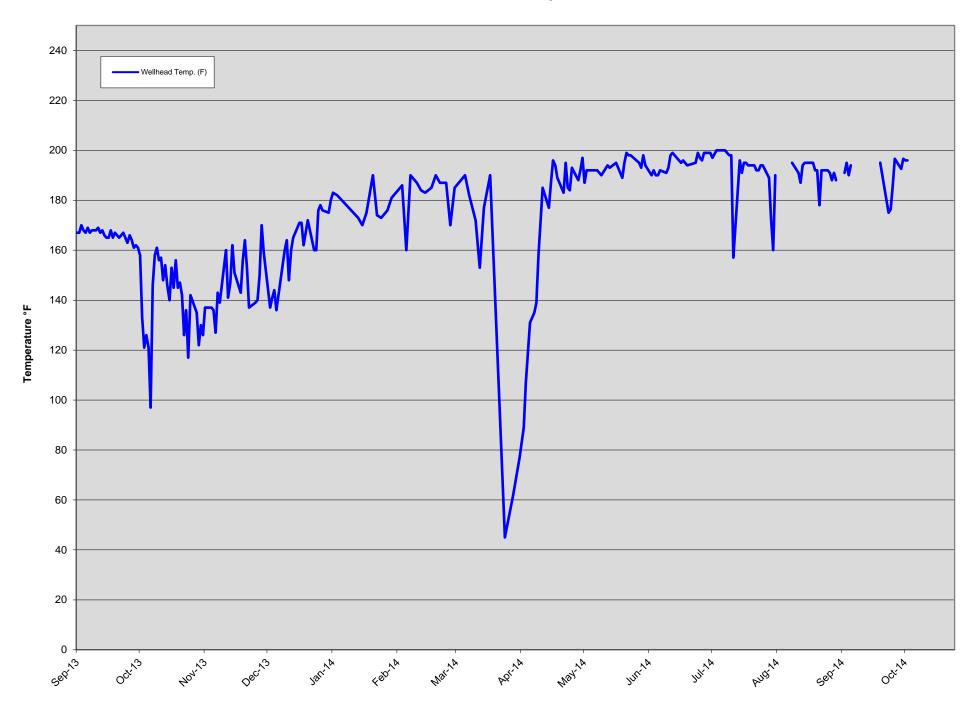
GIW-1 Wellhead Temperatures



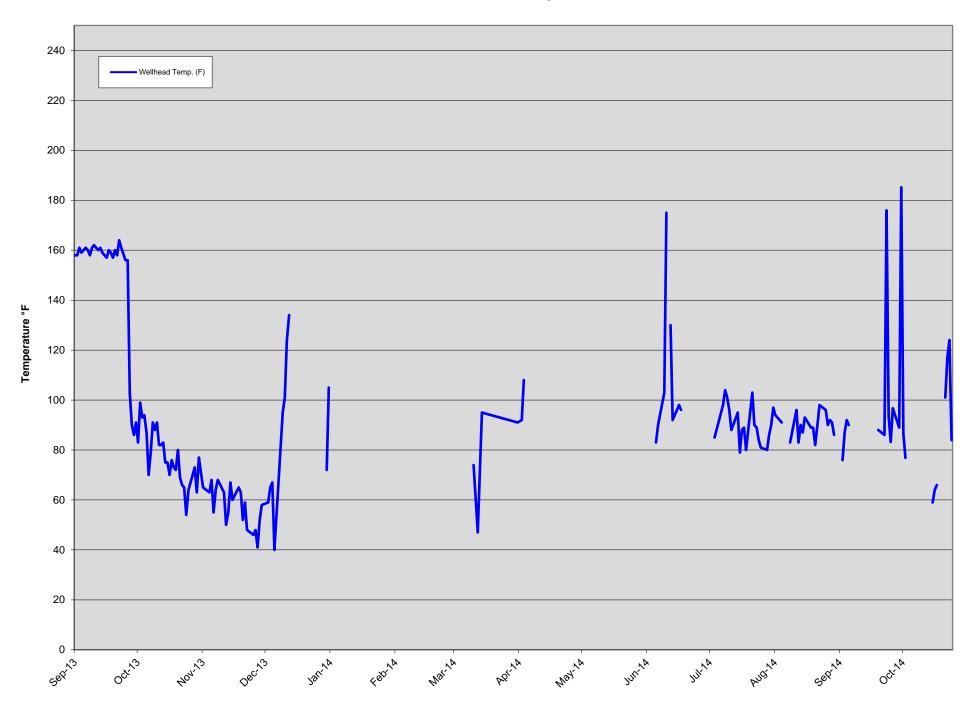
GIW-2 Wellhead Temperatures



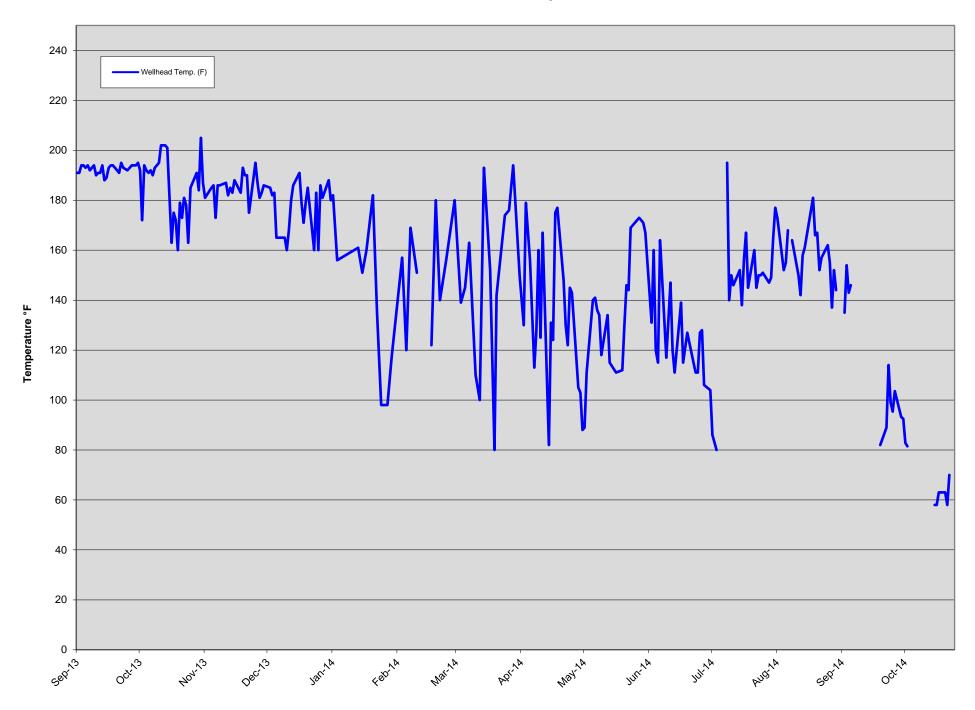
GIW-3 Wellhead Temperatures



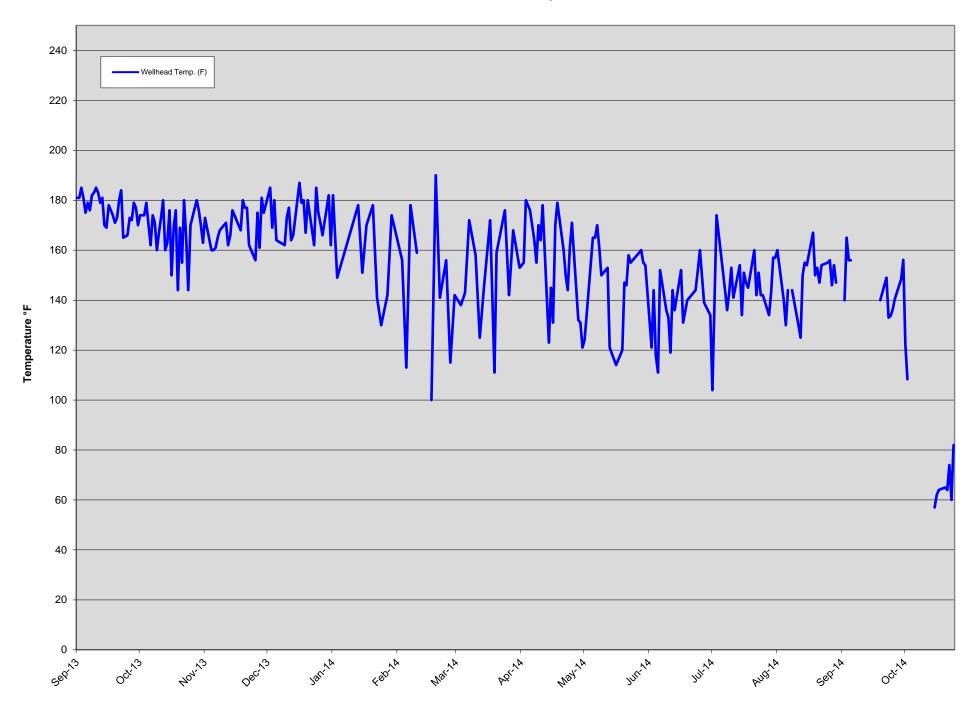
GIW-4 Wellhead Temperatures



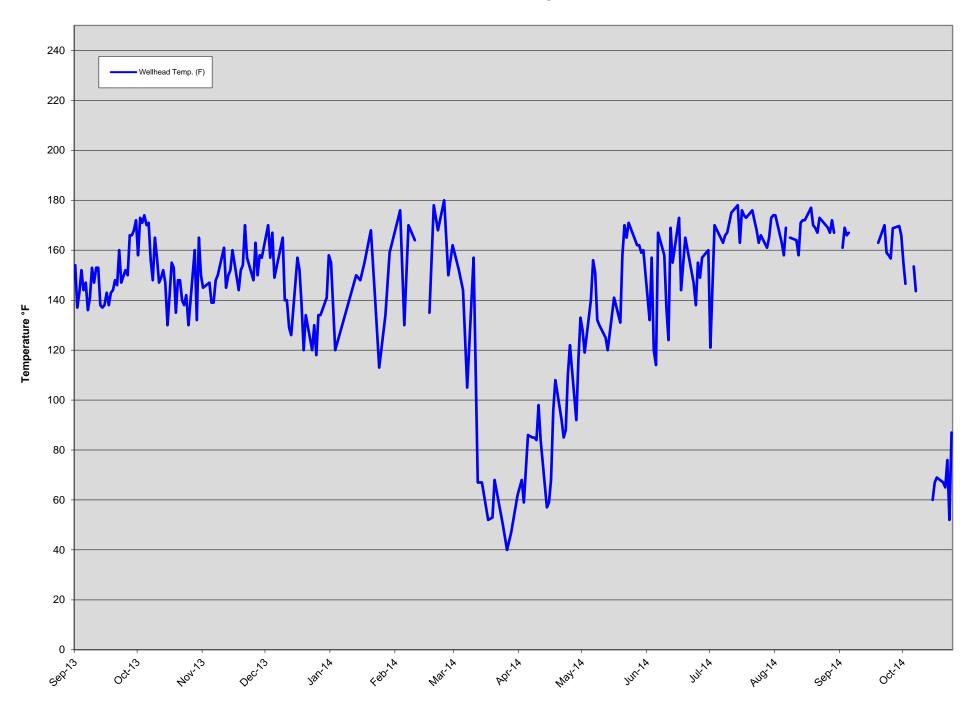
GIW-5 Wellhead Temperatures



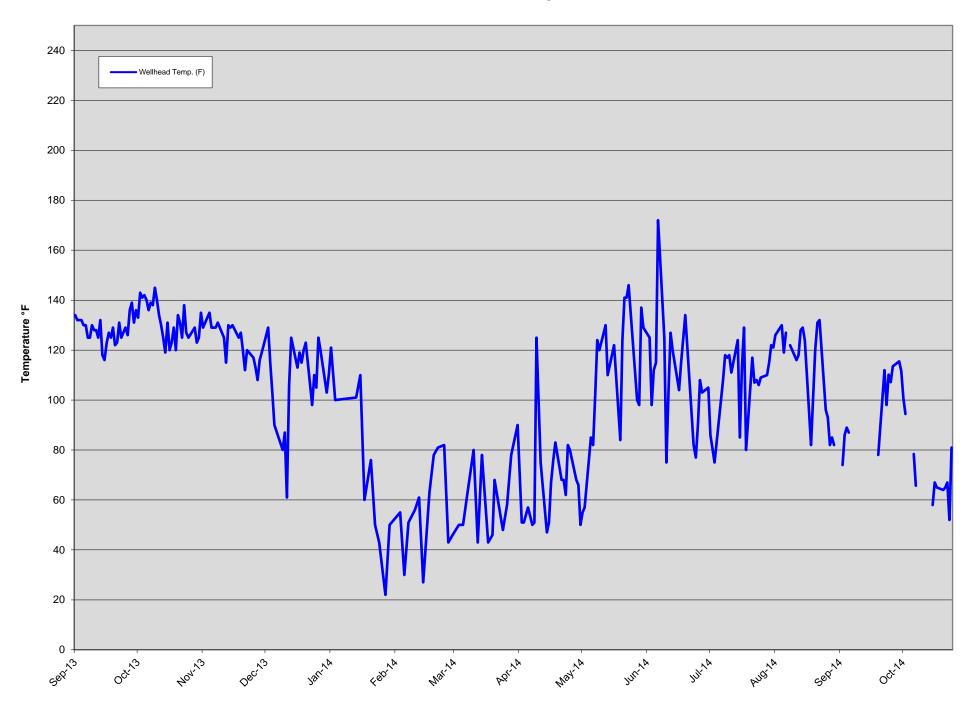
GIW-6 Wellhead Temperatures



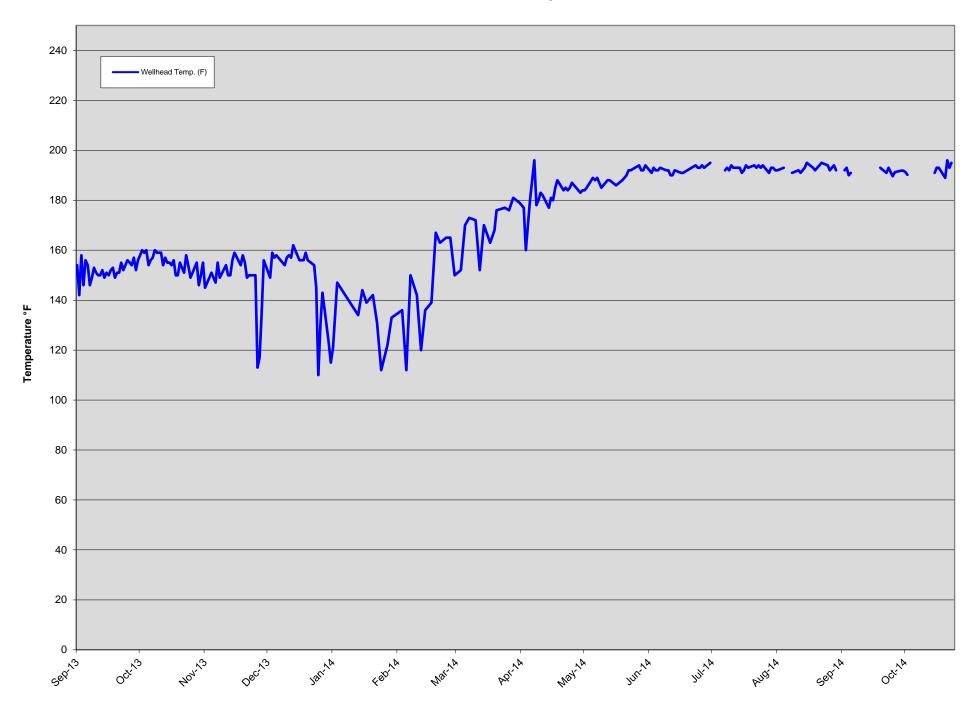
GIW-7 Wellhead Temperatures



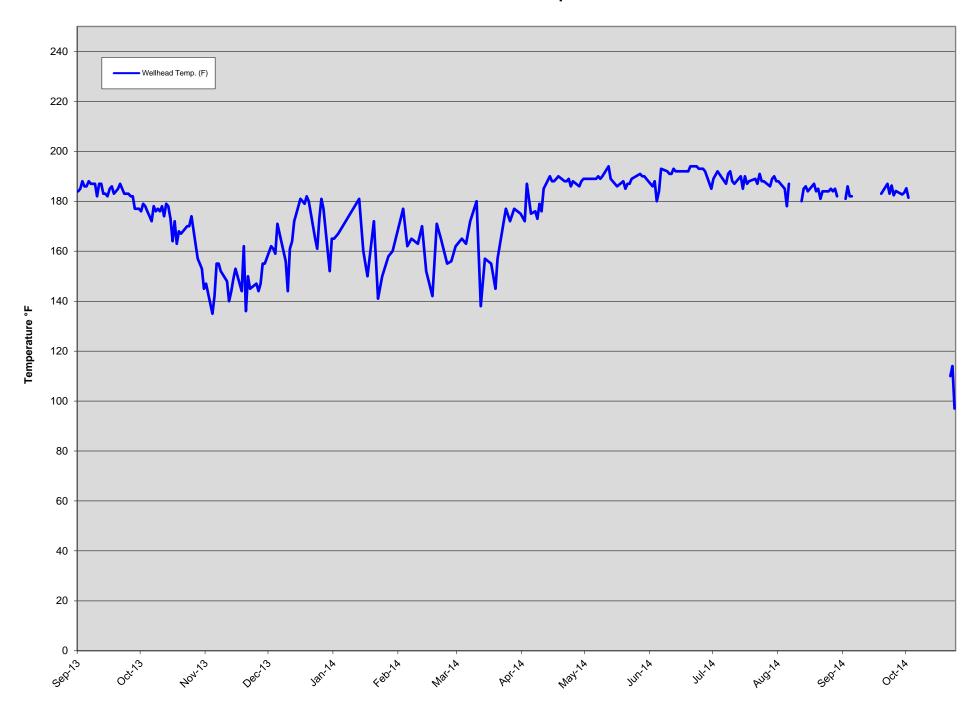
GIW-8 Wellhead Temperatures



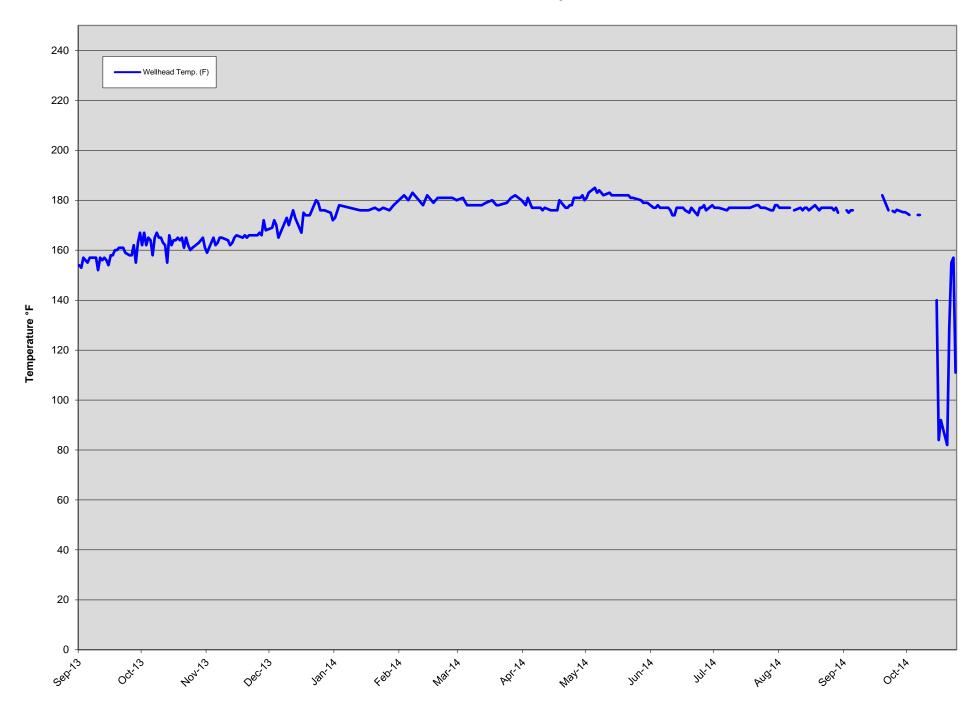
GIW-9 Wellhead Temperatures



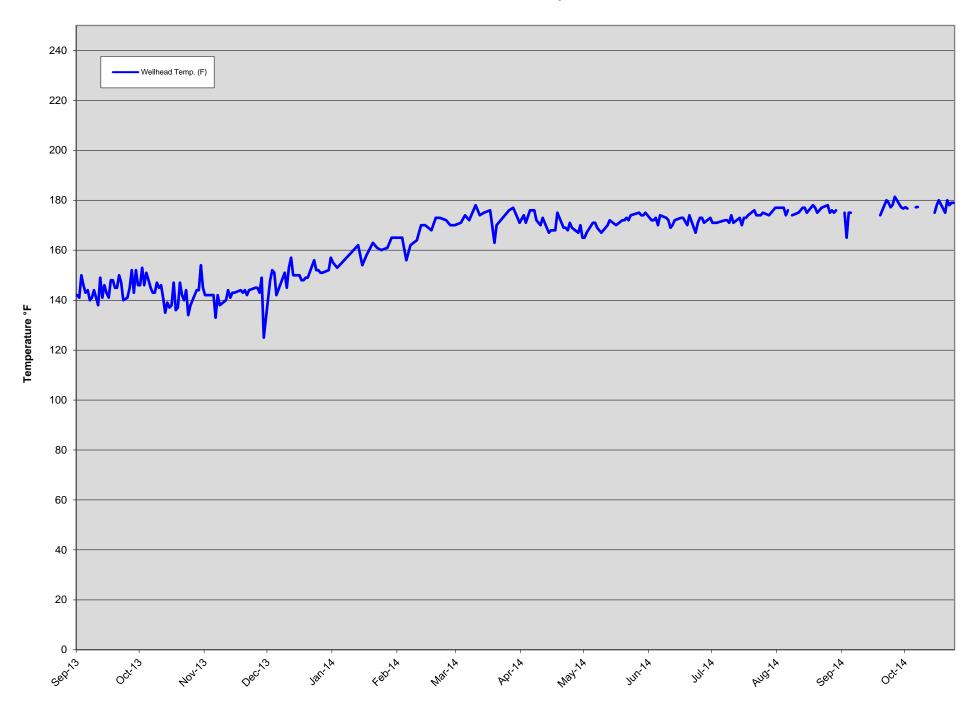
GIW-10 Wellhead Temperatures



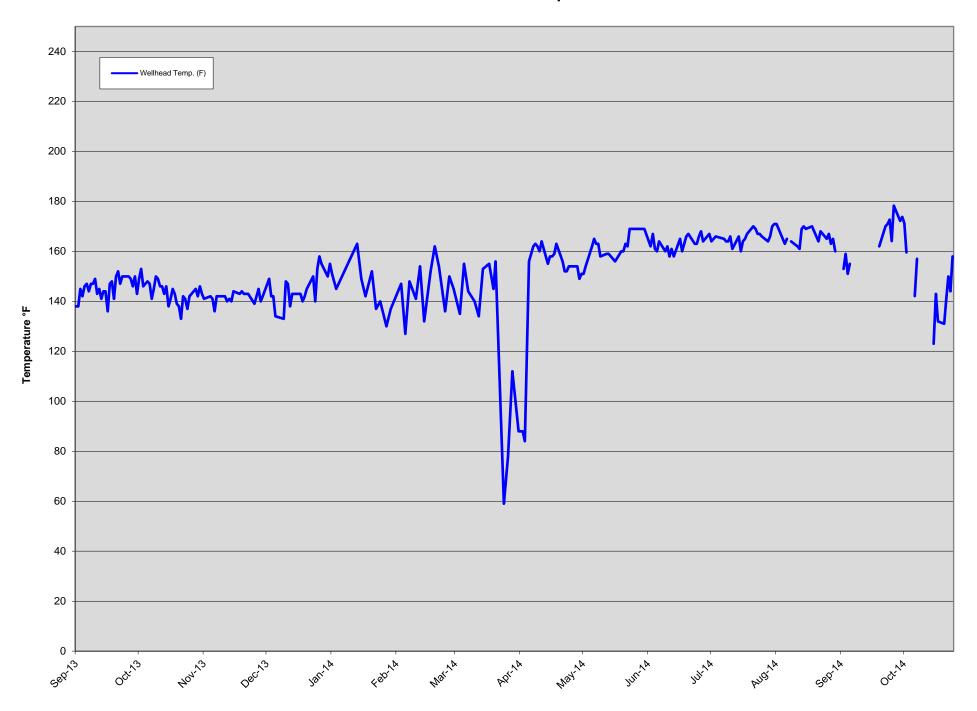
GIW-11 Wellhead Temperatures

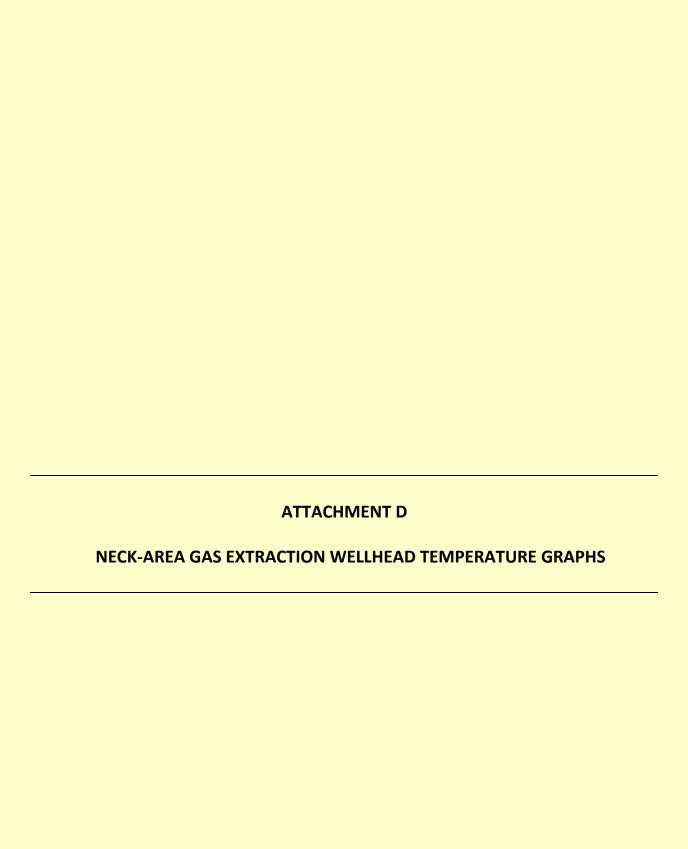


GIW-12 Wellhead Temperatures

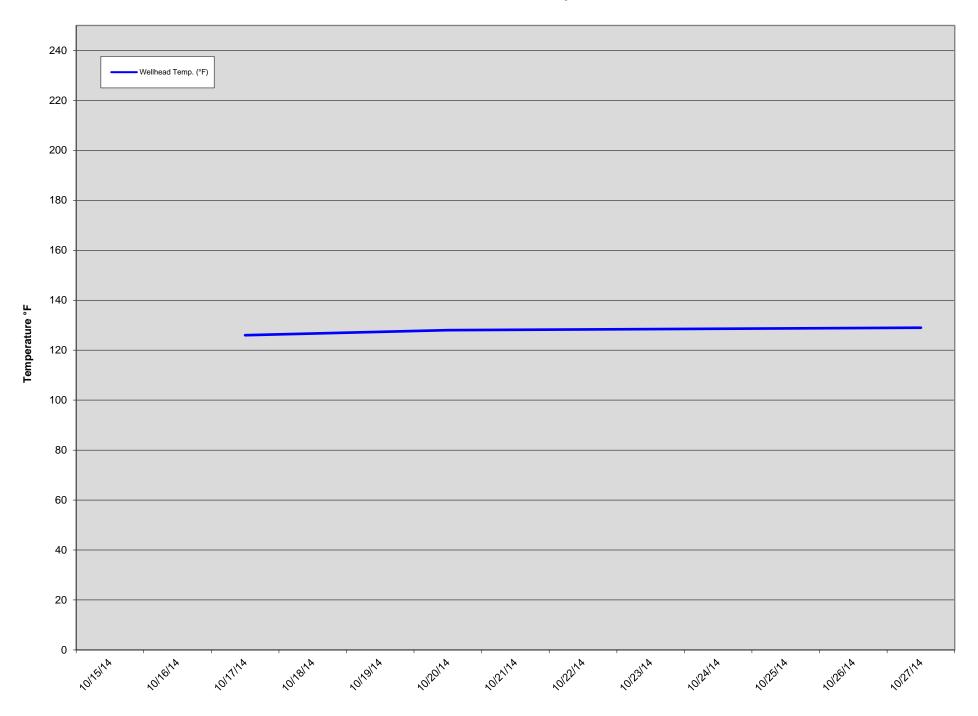


GIW-13 Wellhead Temperatures

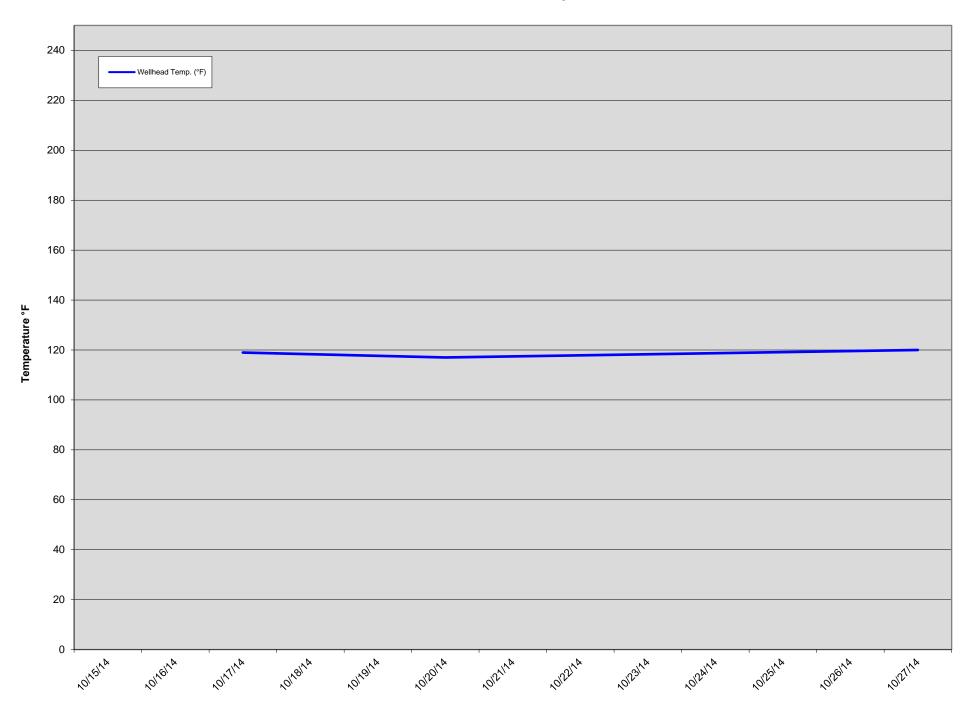




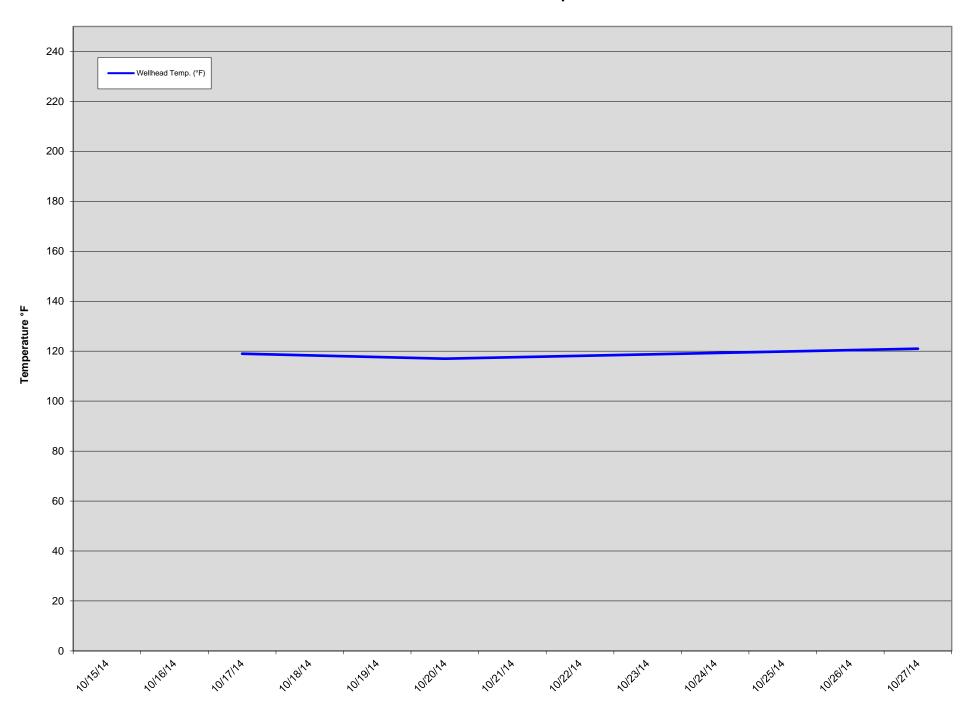
GEW-55 Wellhead Temperatures



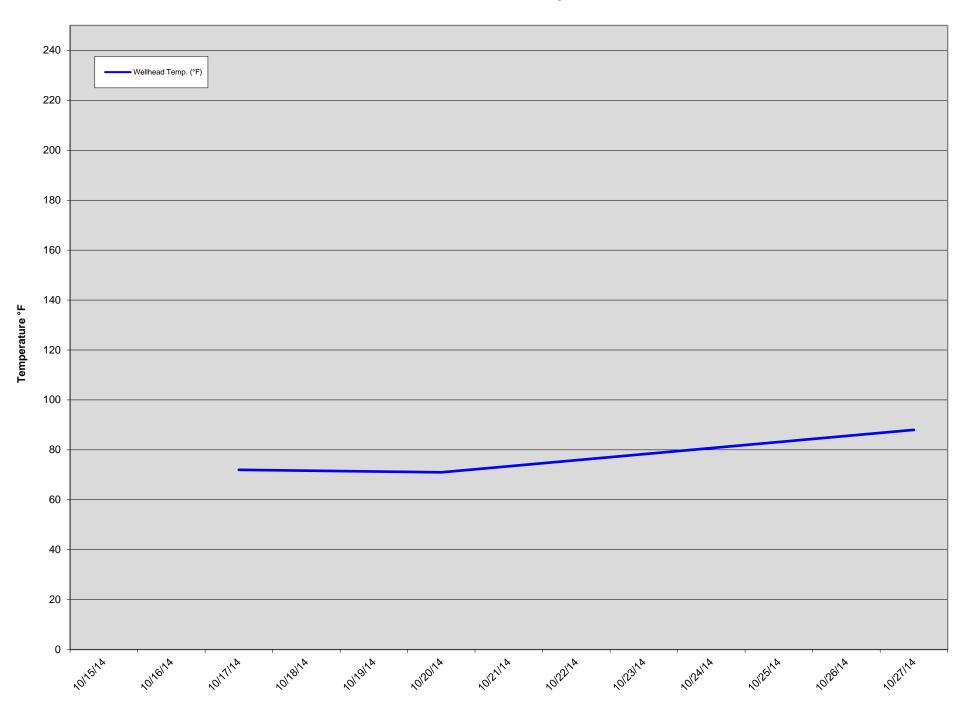
GEW-08 Wellhead Temperatures



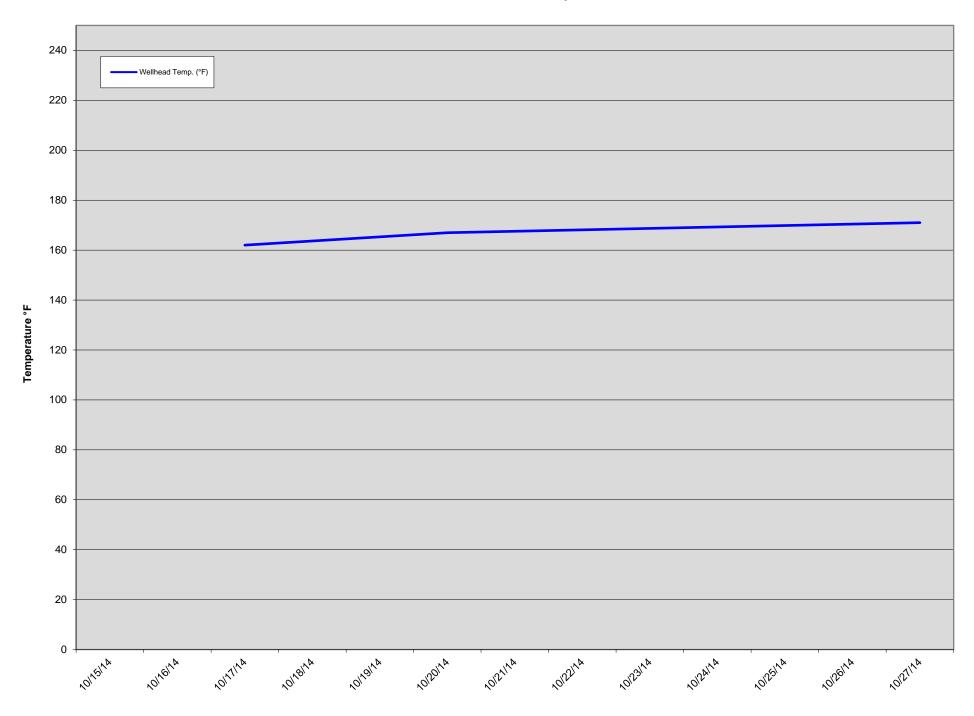
GEW-09 Wellhead Temperatures



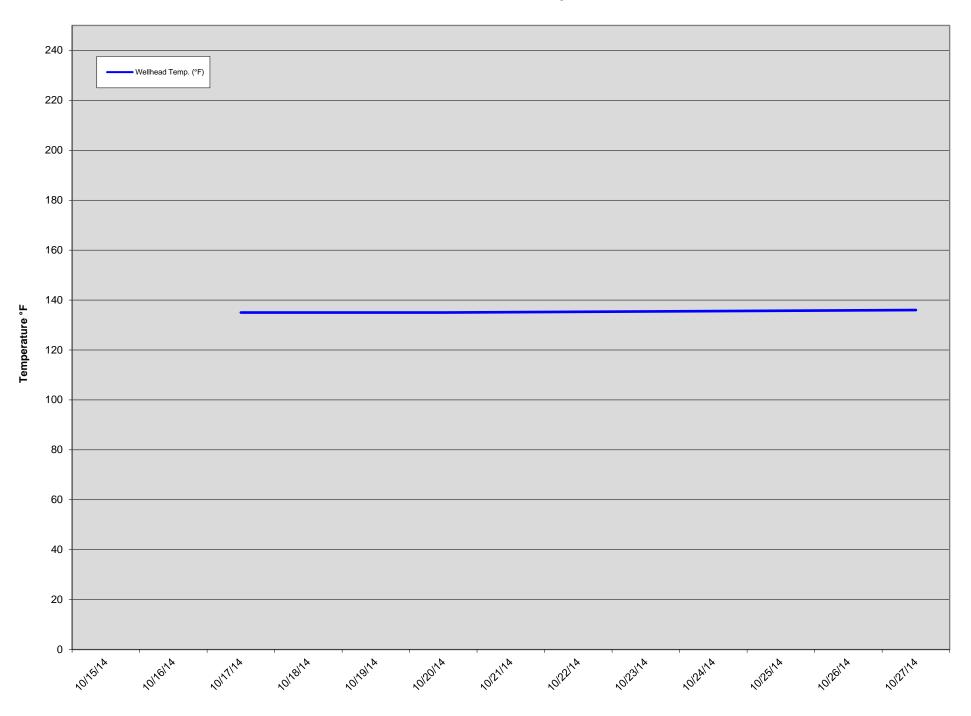
GEW-10 Wellhead Temperatures



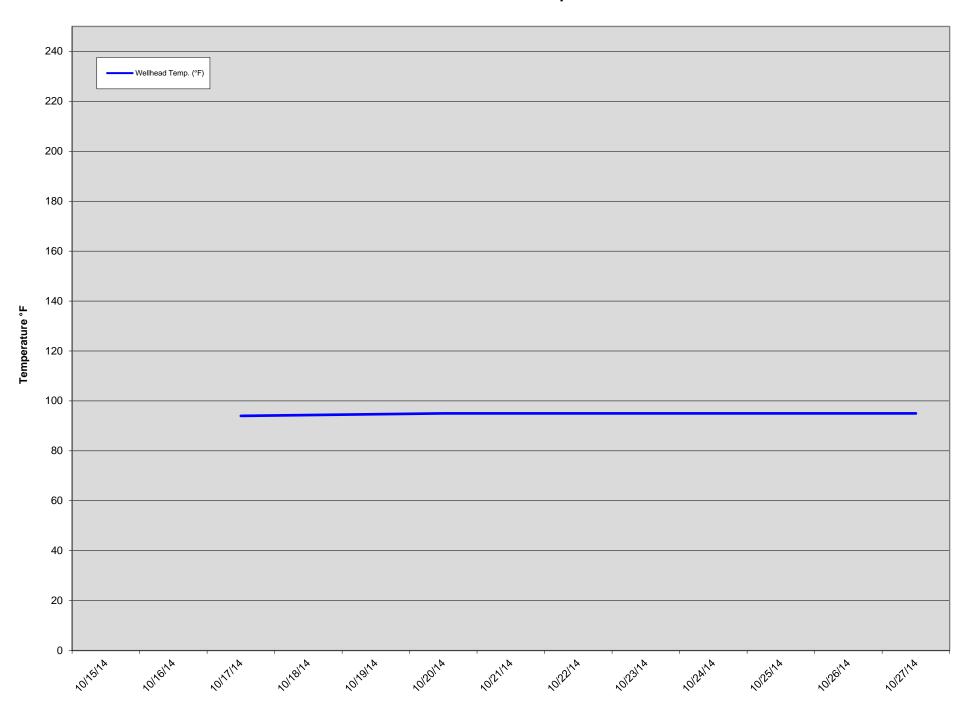
GEW-38 Wellhead Temperatures



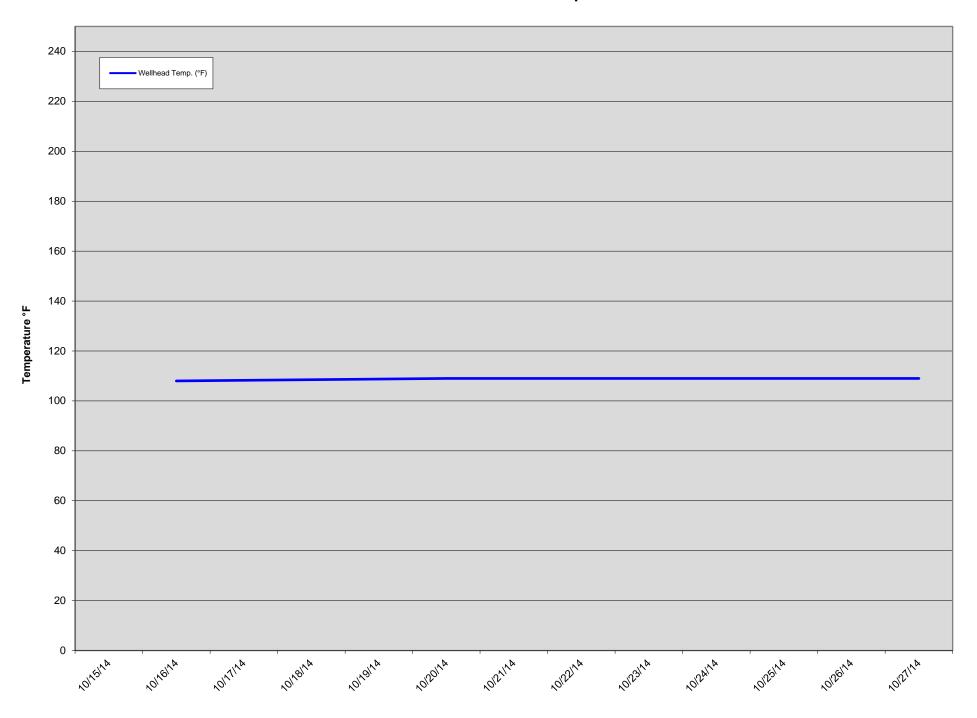
GEW-39 Wellhead Temperatures



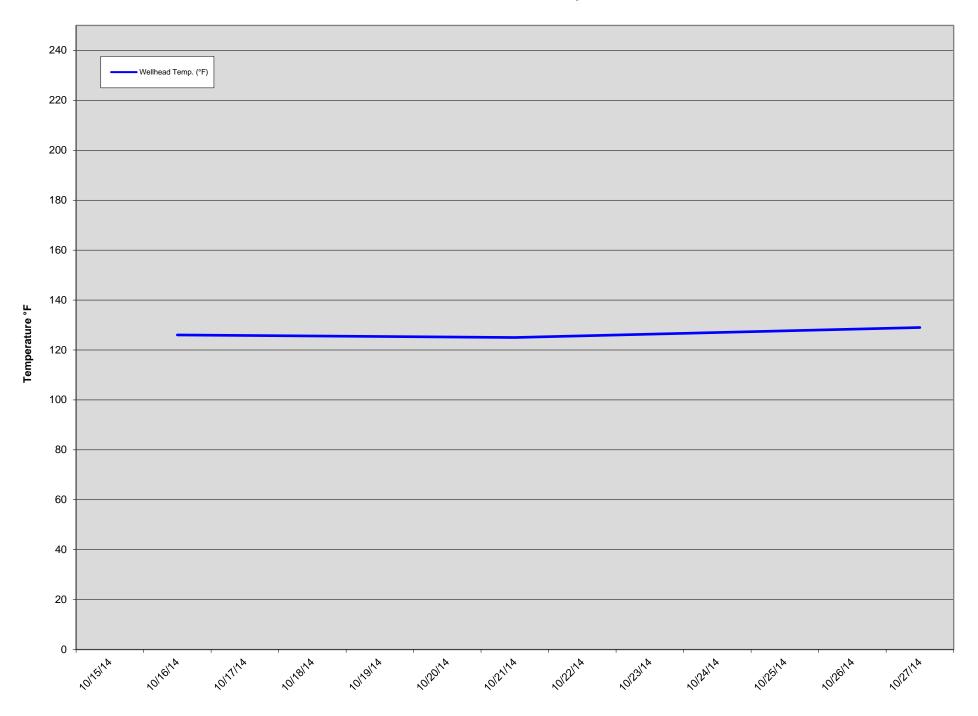
GEW-40 Wellhead Temperatures



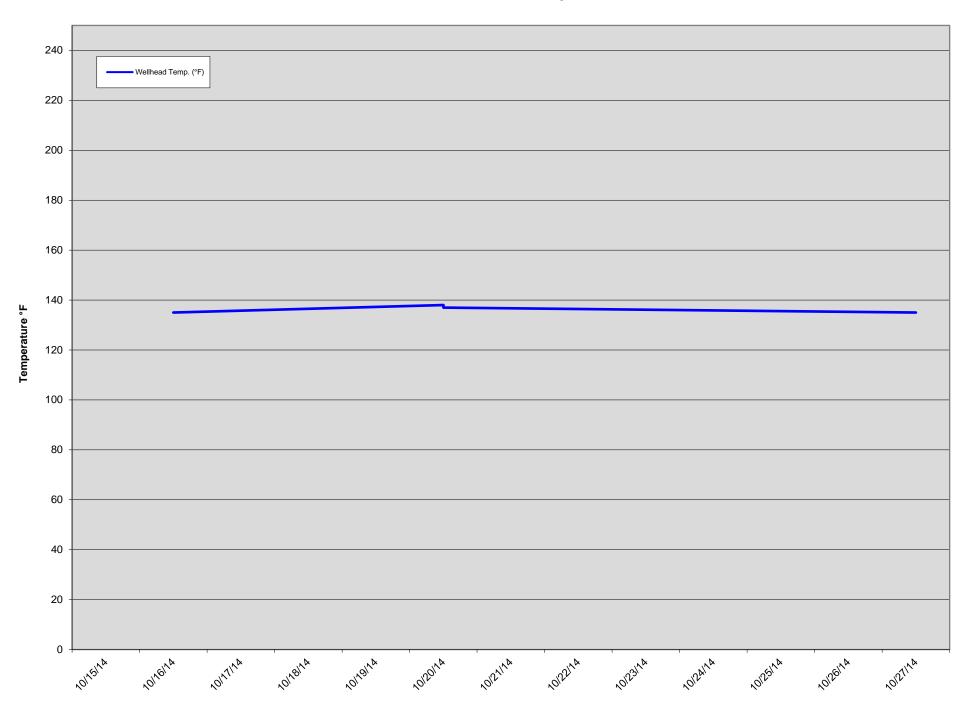
GEW-41R Wellhead Temperatures



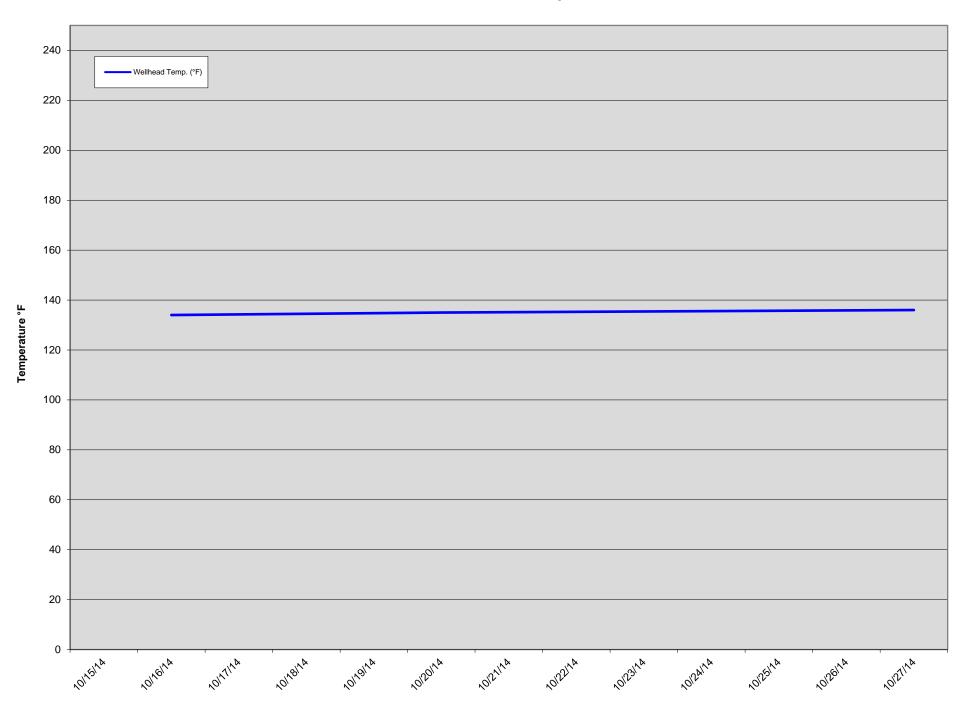
GEW-43R Wellhead Temperatures



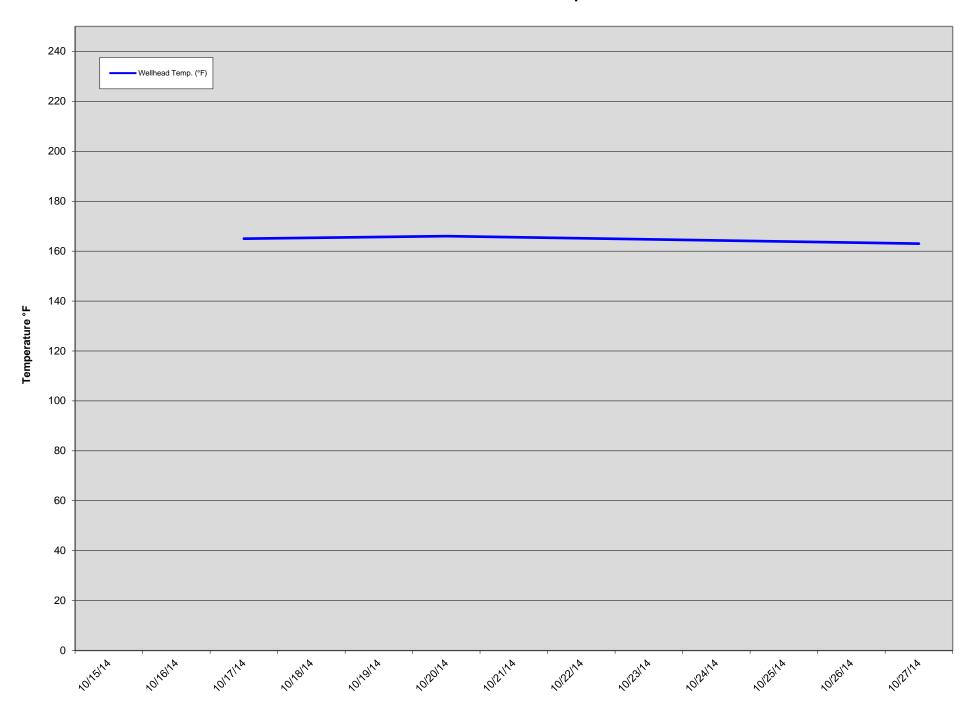
GEW-53 Wellhead Temperatures



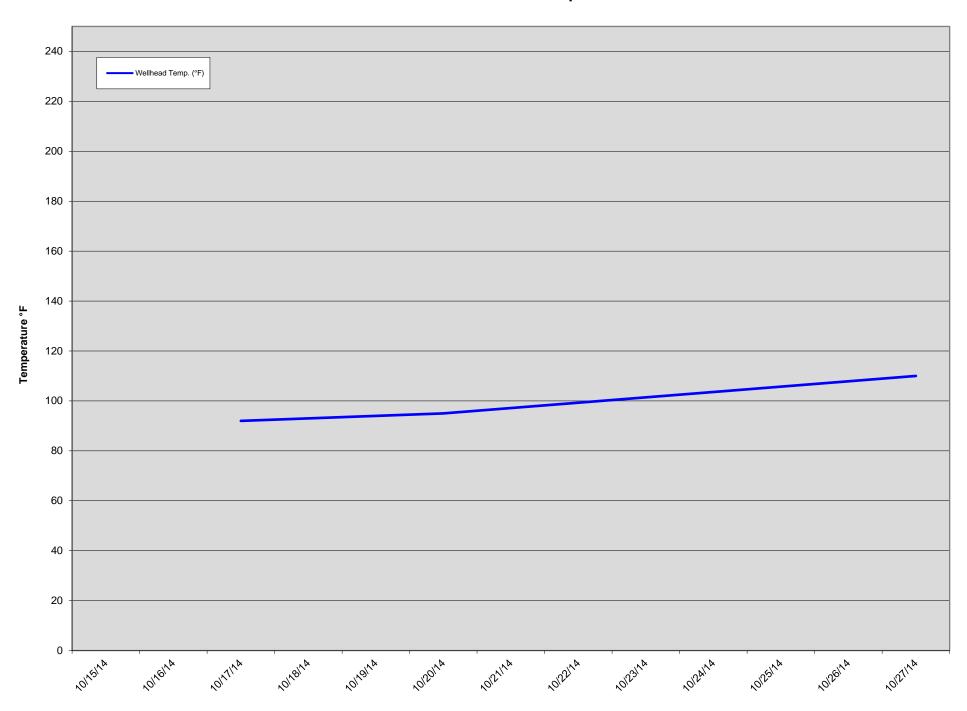
GEW-54 Wellhead Temperatures



GEW-56R Wellhead Temperatures



GEW-109 Wellhead Temperatures



GEW-110 Wellhead Temperatures

