

# **Bridgeton Landfill, LLC**

## **Weekly Data Submittal**

**Week of February 22, 2015 – February 28, 2015**

**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**

**March 6, 2015**

## **Commentary on Data**

March 6, 2015

### **Attachment A – Leachate Levels in Leachate Collection Sumps**

Leachate Collection Sump (LCS)-1D, -3D, -4B, -5A, and -6B were partially or fully operational during the weekly reporting period. Several wells have level transducer(s) that are non-functional or are being calibrated.

The pump in LCS-2D was off during the weekly monitoring event due to an “over current” error.

### **Attachment B - Temperature Monitoring Probe Analytical Charts**

The following TMPs indicated generally consistent profiles to previous observations: TMP-1, -2, -3, -3R, -4, -4R, -6, -8, -9, -10, -11, -14, -16, -17, -18, -21, -22, -23, -24, -25, -26, -27, -28, and -29.

TMP readings for evaluation of the Heat Extraction System (HES) are attached, but not evaluated in this commentary.

### **Attachment C - Gas Interceptor Wellhead Temperature Graphs**

There are currently water circulation loops installed in seven Gas Interceptor Wells (GIWs) (GIW-02 through GIW-07, as well as GIW-10). It should be noted that this week’s readings reflect the renewed operation of the HES, and a corresponding decrease in gas flow temperatures from these GIWs.

For the remaining six wells without a HES installed (GIW-01, -08, -09, -11, -12, and -13), a return to historical gas flows temperatures was observed.

### **Attachment D – Neck Area Gas Extraction Well Data**

Weekly gas temperature data is being collected for select gas extraction wells (GEWs) located in the neck area of the landfill. These wells include GEW-008, -009, -010, -038, -039, -040, -041R, -043R, -053, -054, -055, -056R, -109, and -110.

Over the past week all 14 wells were monitored and all well temperatures were consistent with historical gas flow temperatures.

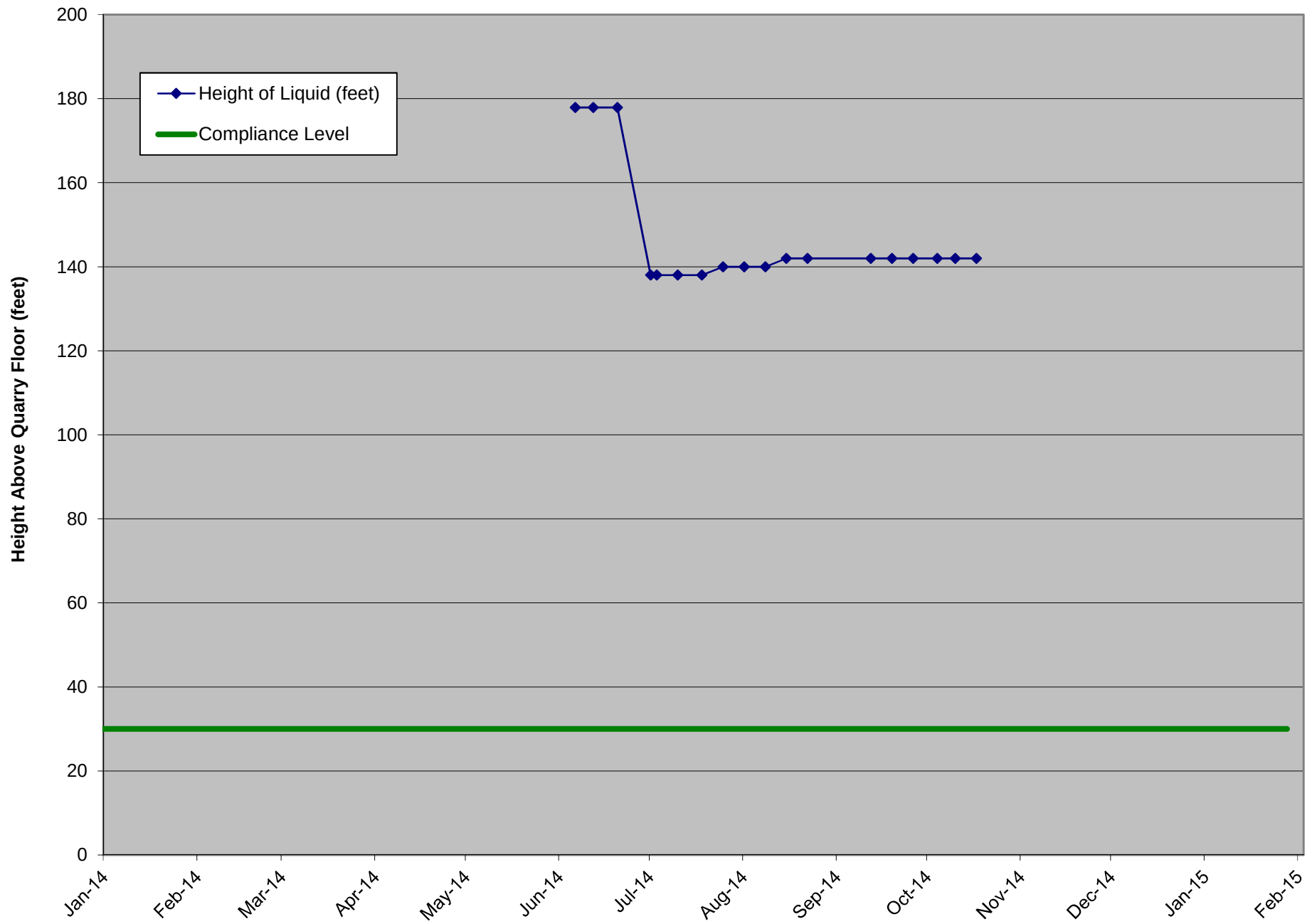
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**ATTACHMENT A**

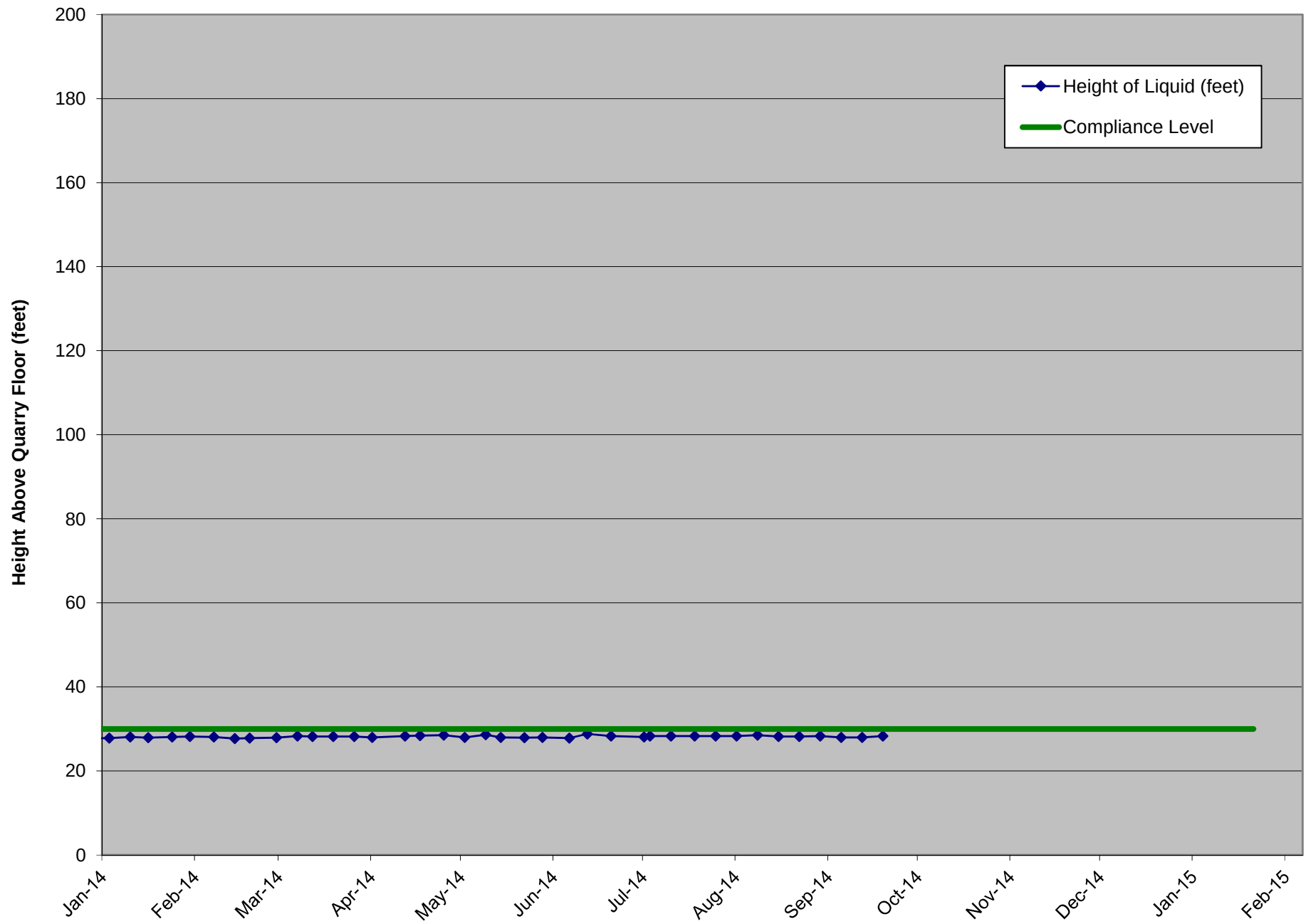
**LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS**

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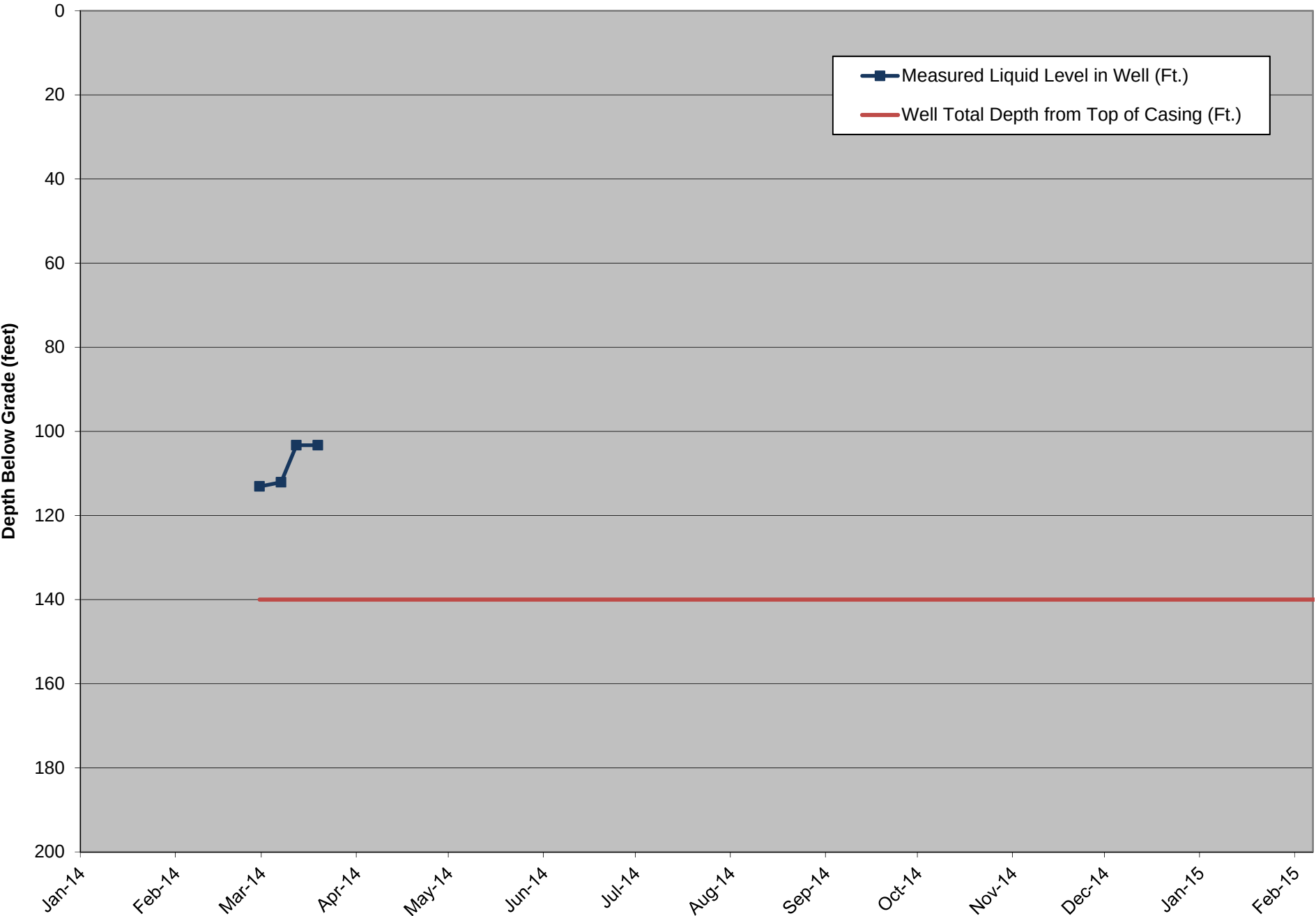
LCS-1D Liquid Level Above Quarry Floor



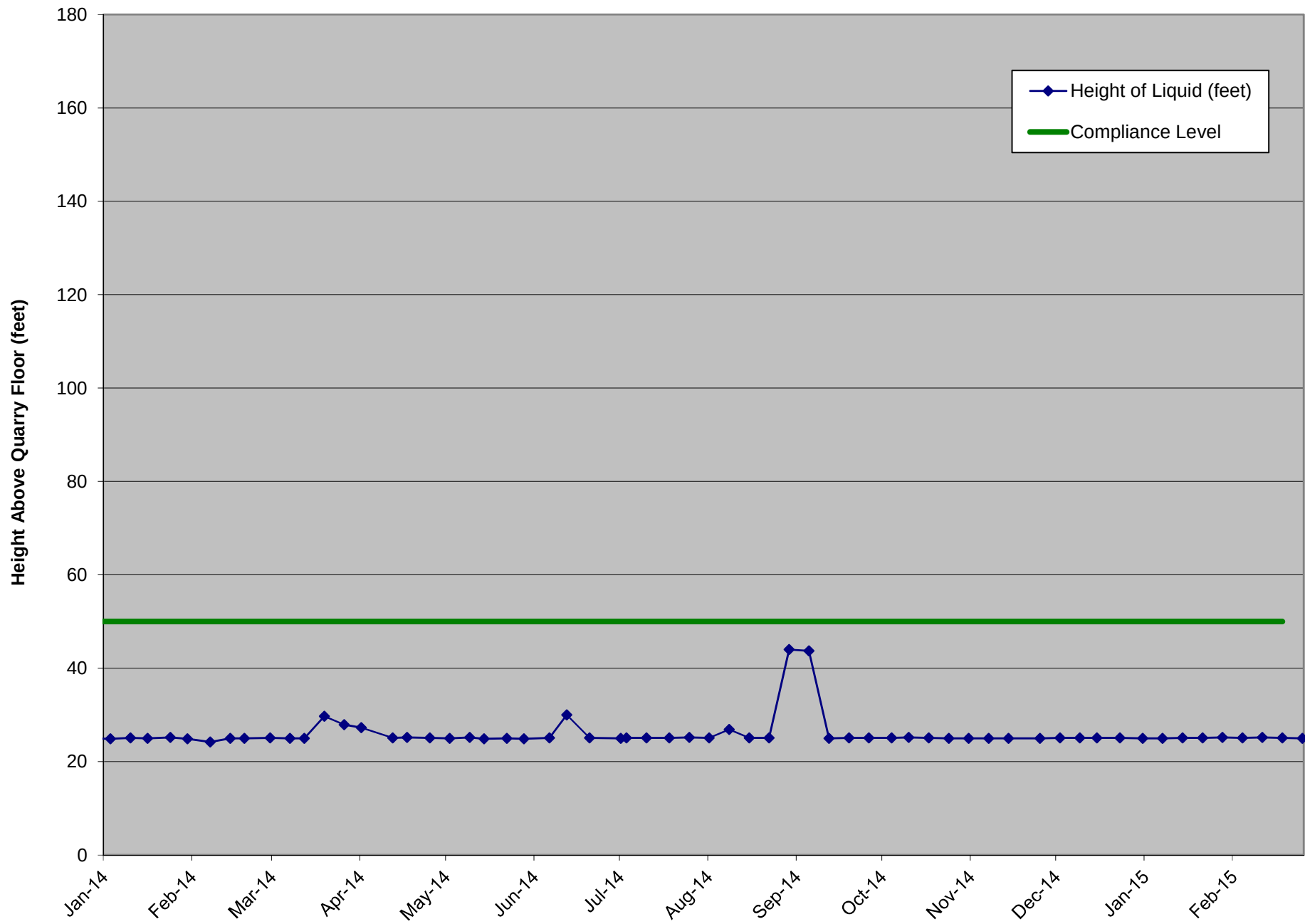
# LCS-2D Liquid Level Above Quarry Floor



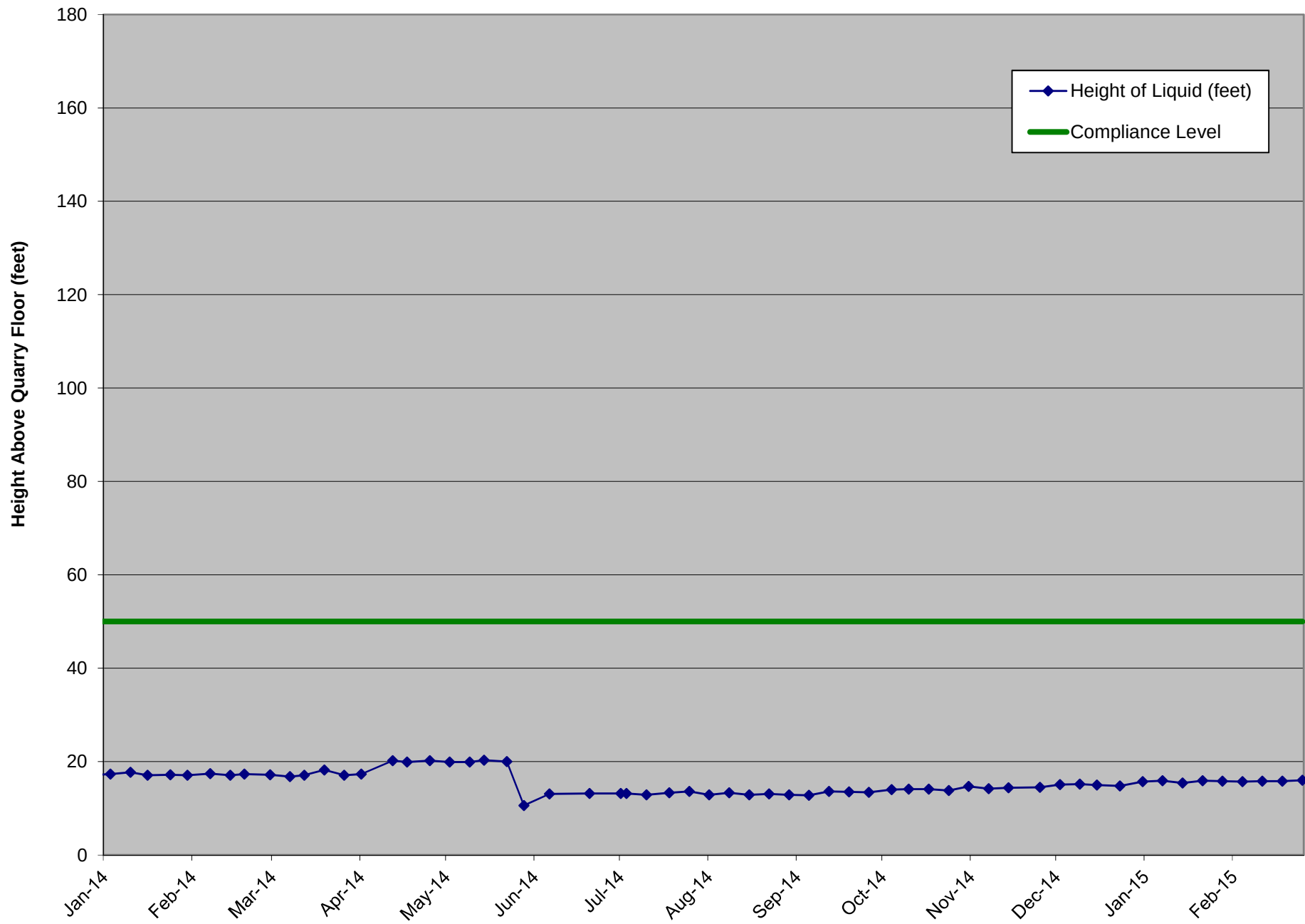
LCS-3D Liquid Level Below Ground Surface



LCS-5A Liquid Level Above Quarry Floor



LCS-6B Liquid Level Above Quarry Floor





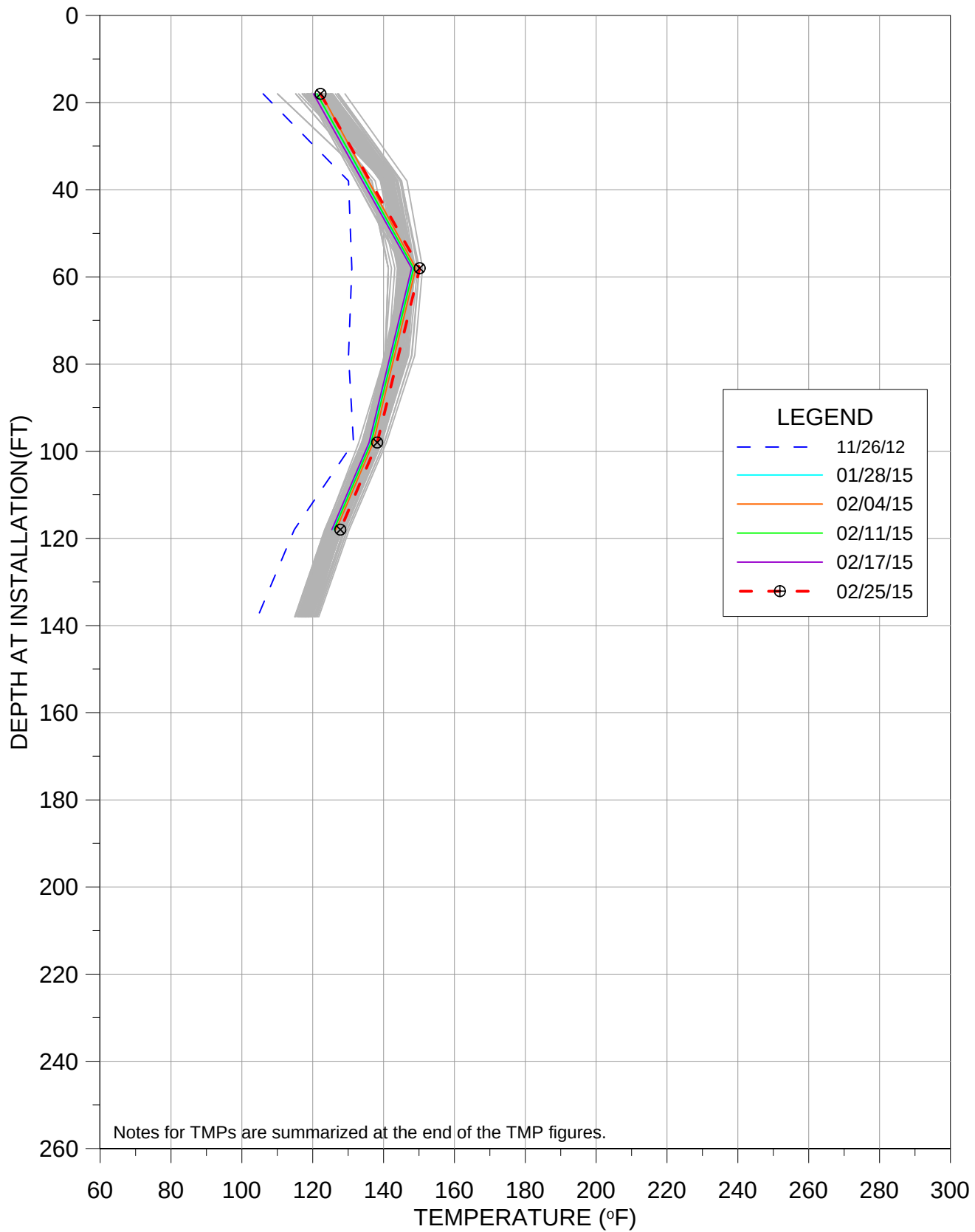
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**ATTACHMENT B**

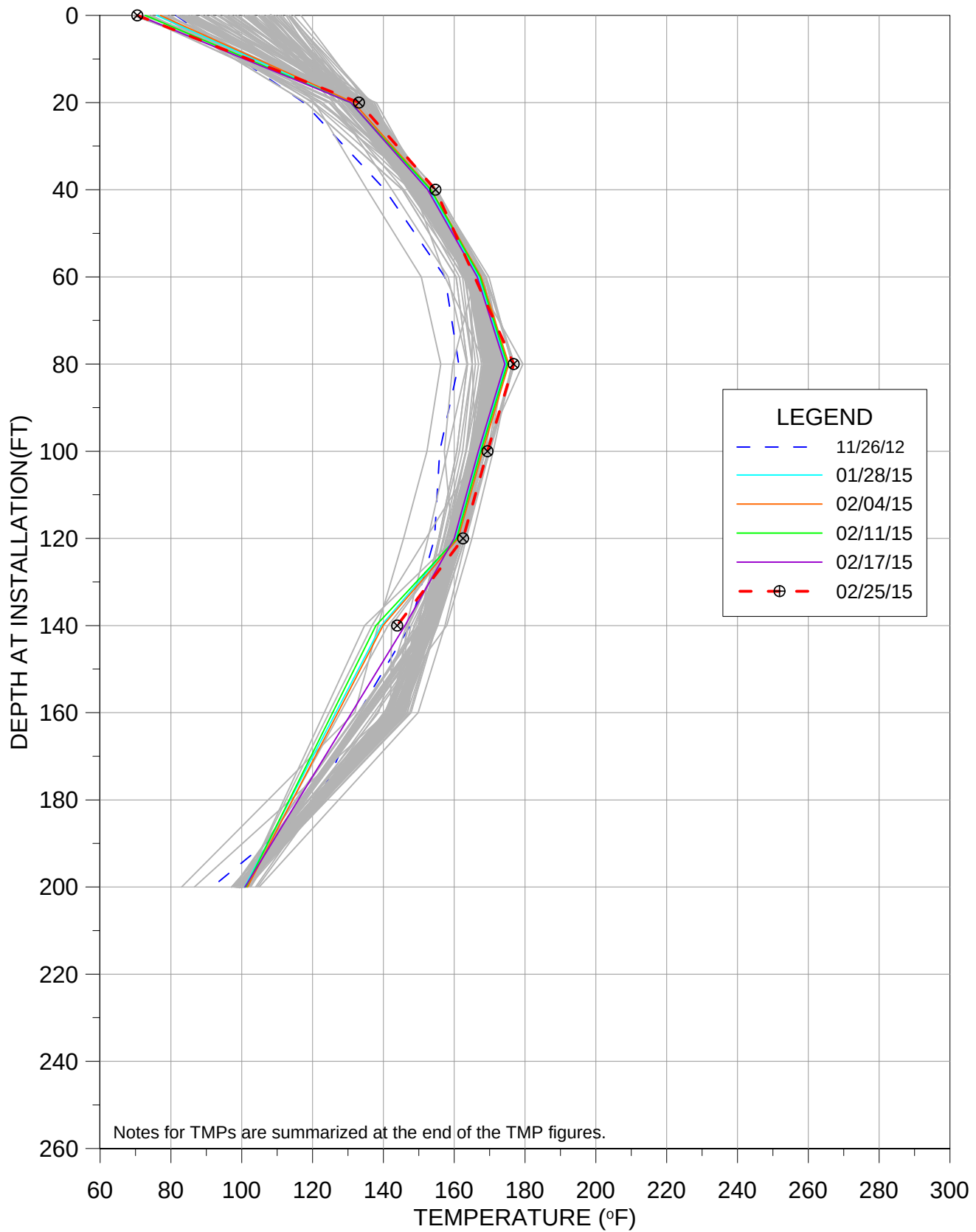
**TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS**

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# TMP-1

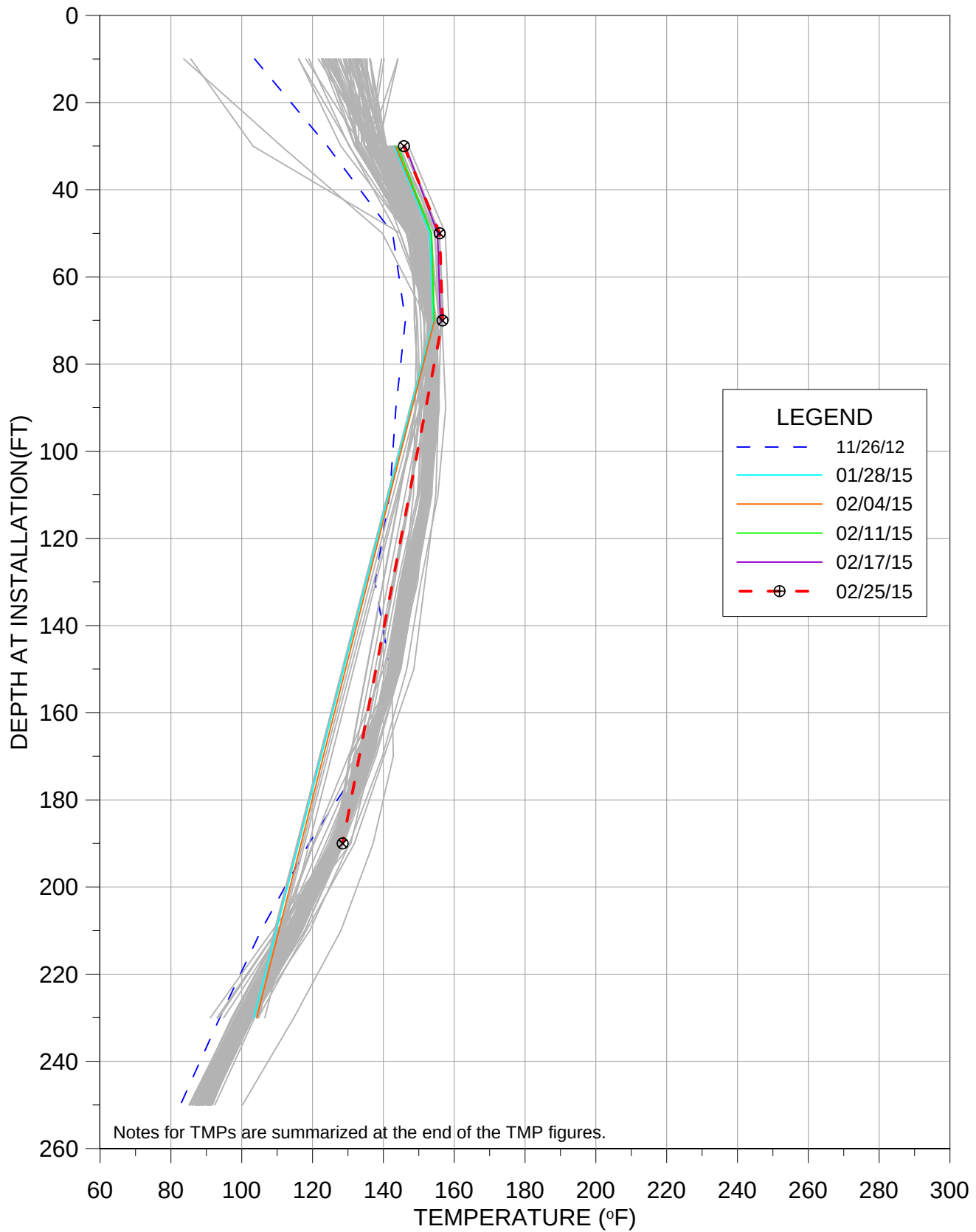


# TMP-2



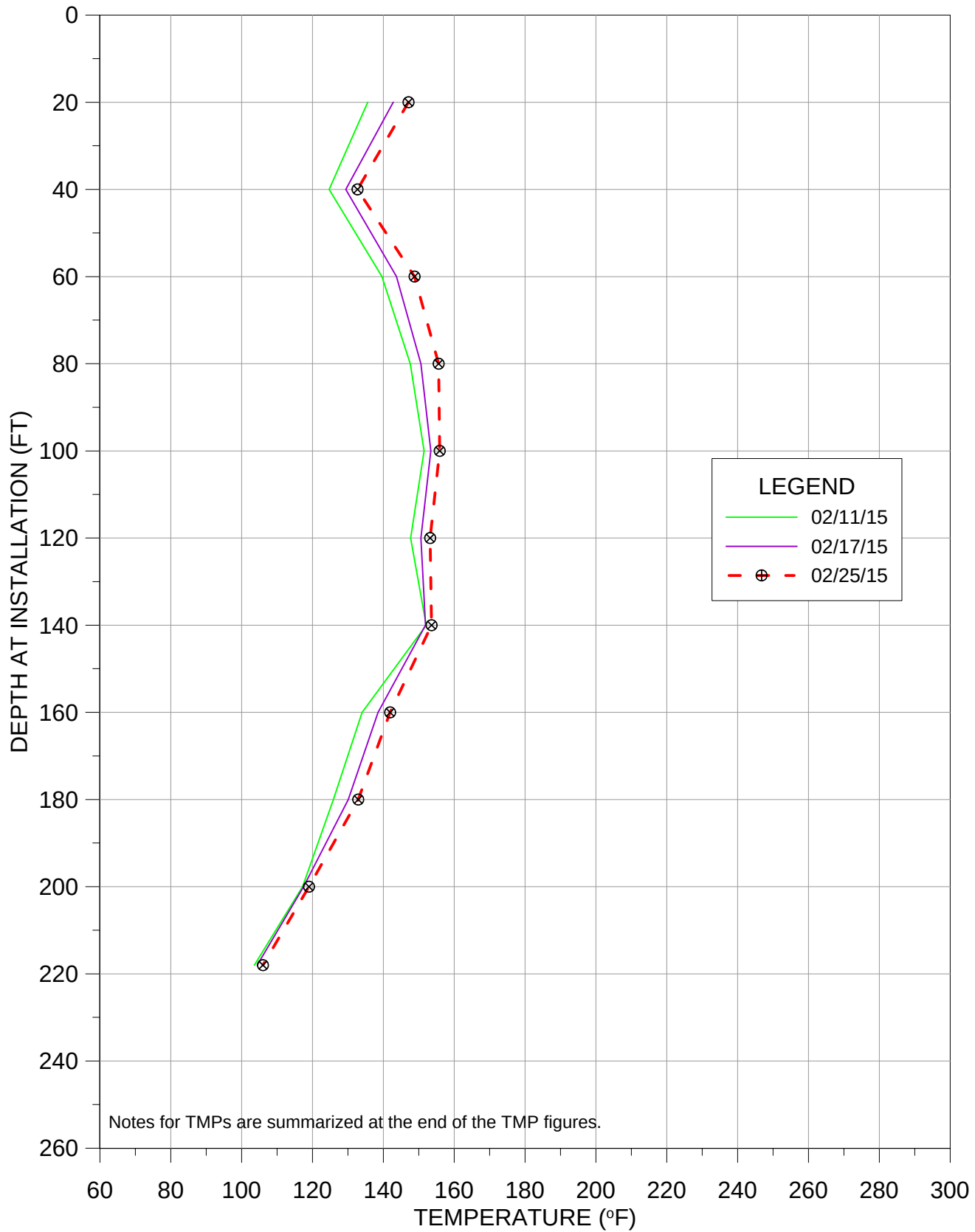
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-3

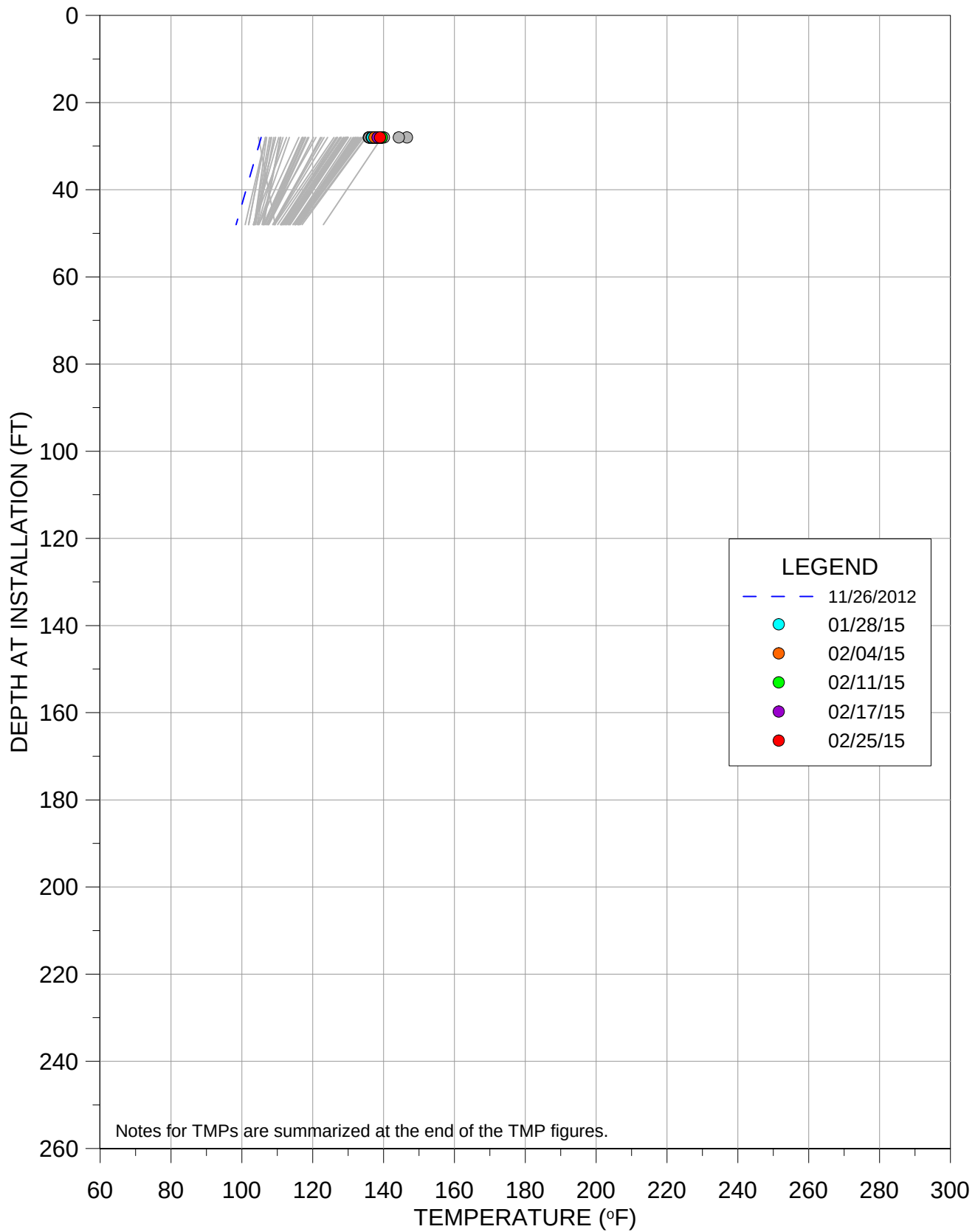


TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-3R

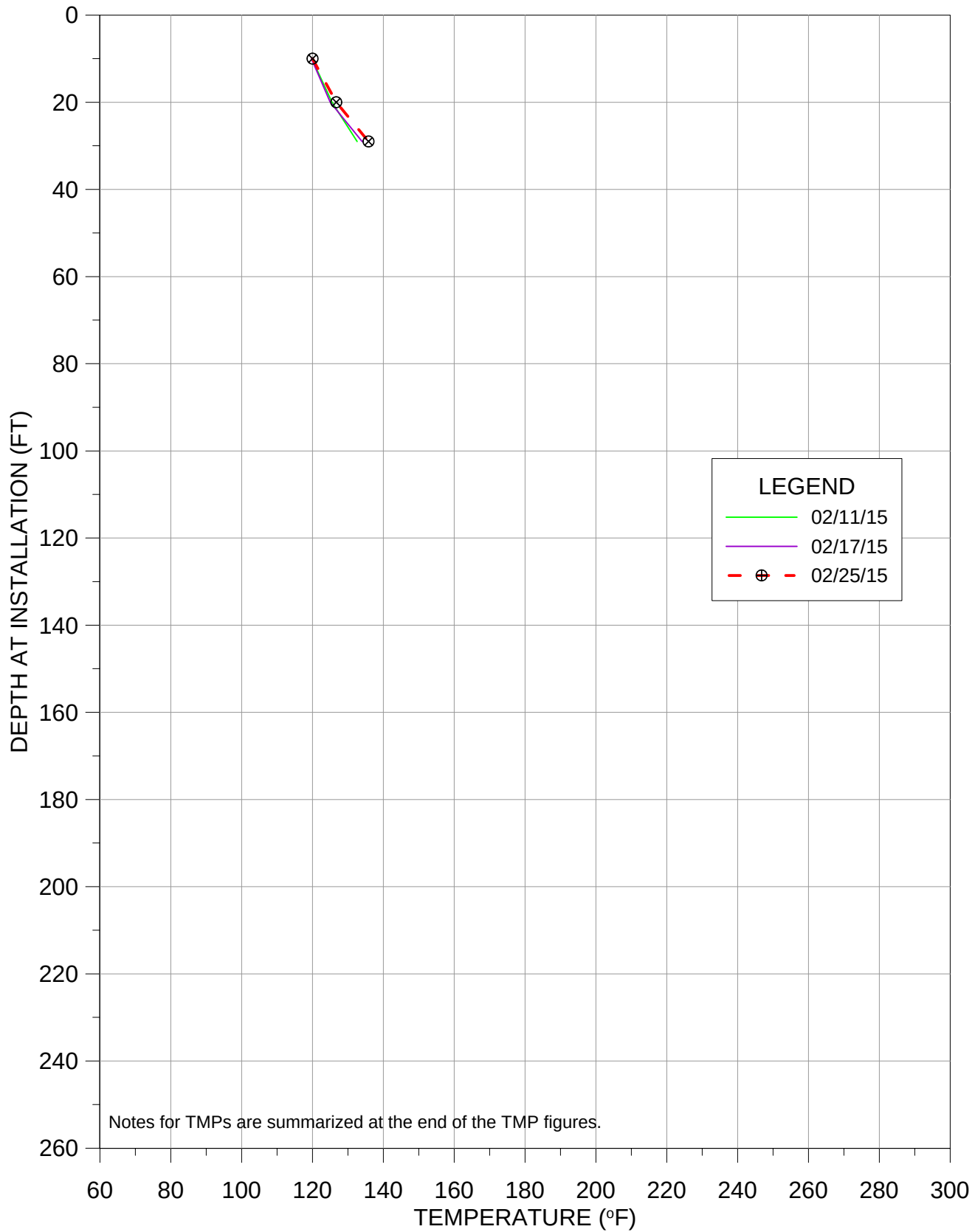


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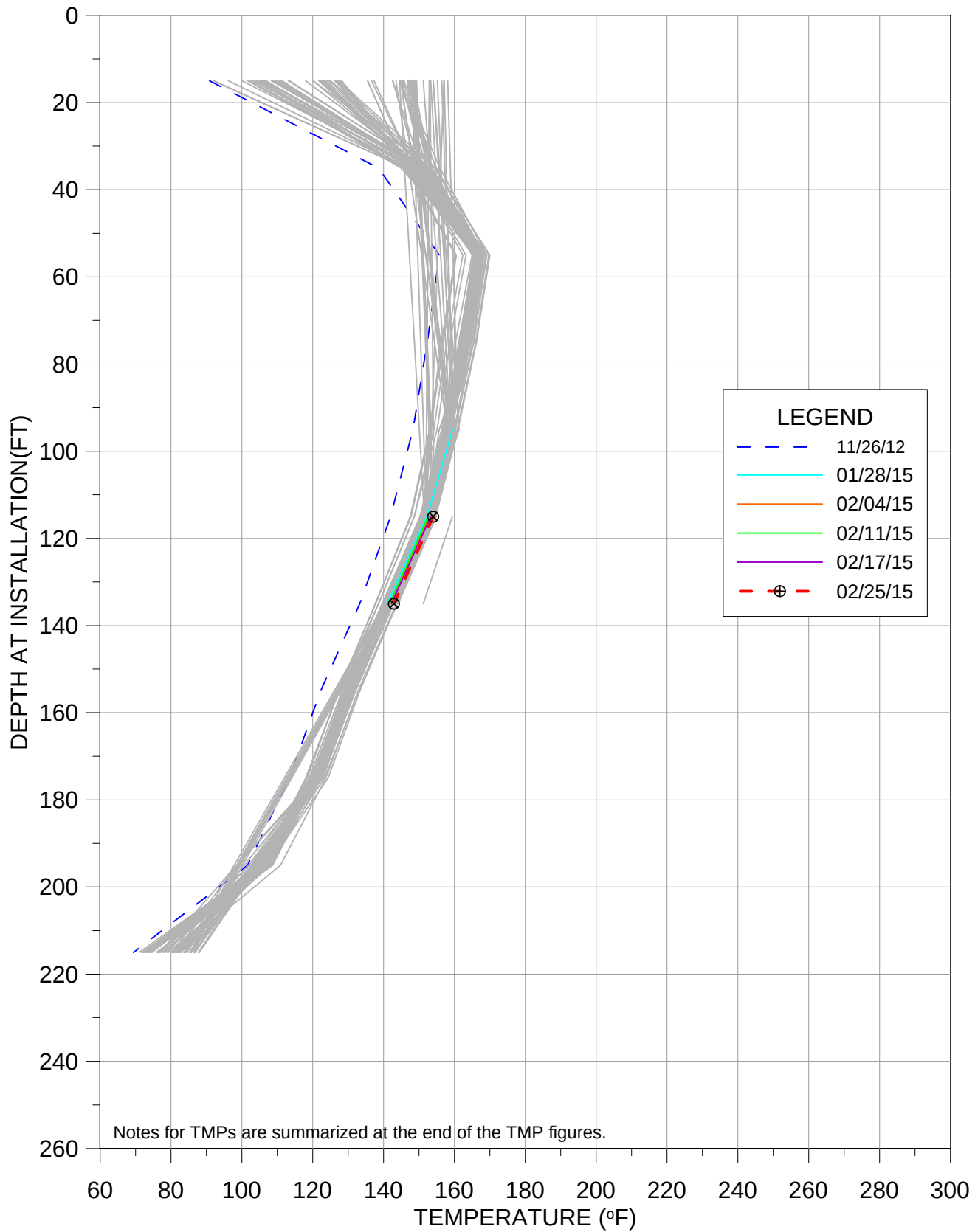


## TEMPERATURE VS DEPTH BRIDGETON LANDFILL

# TMP-4R



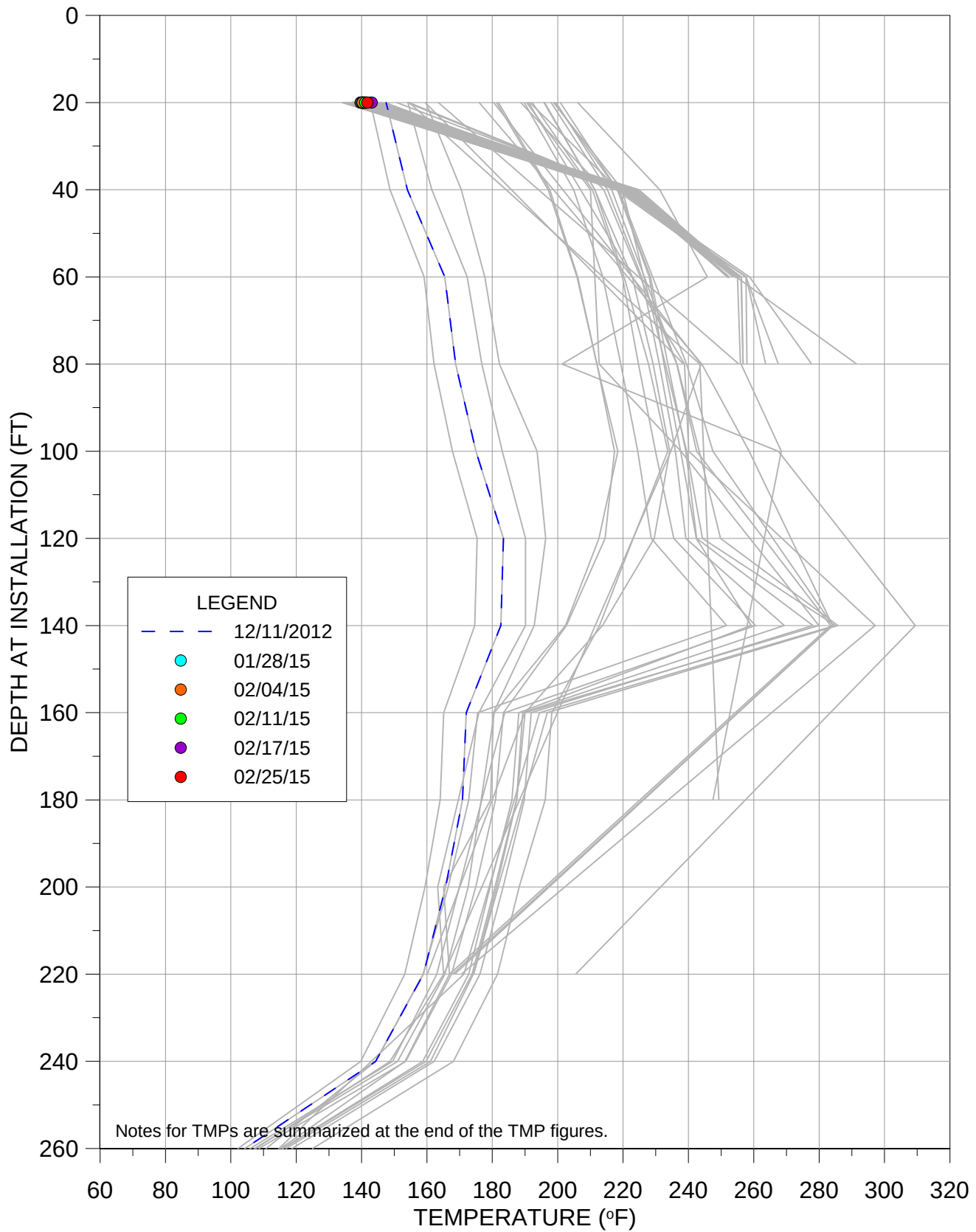
# TMP-6



TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

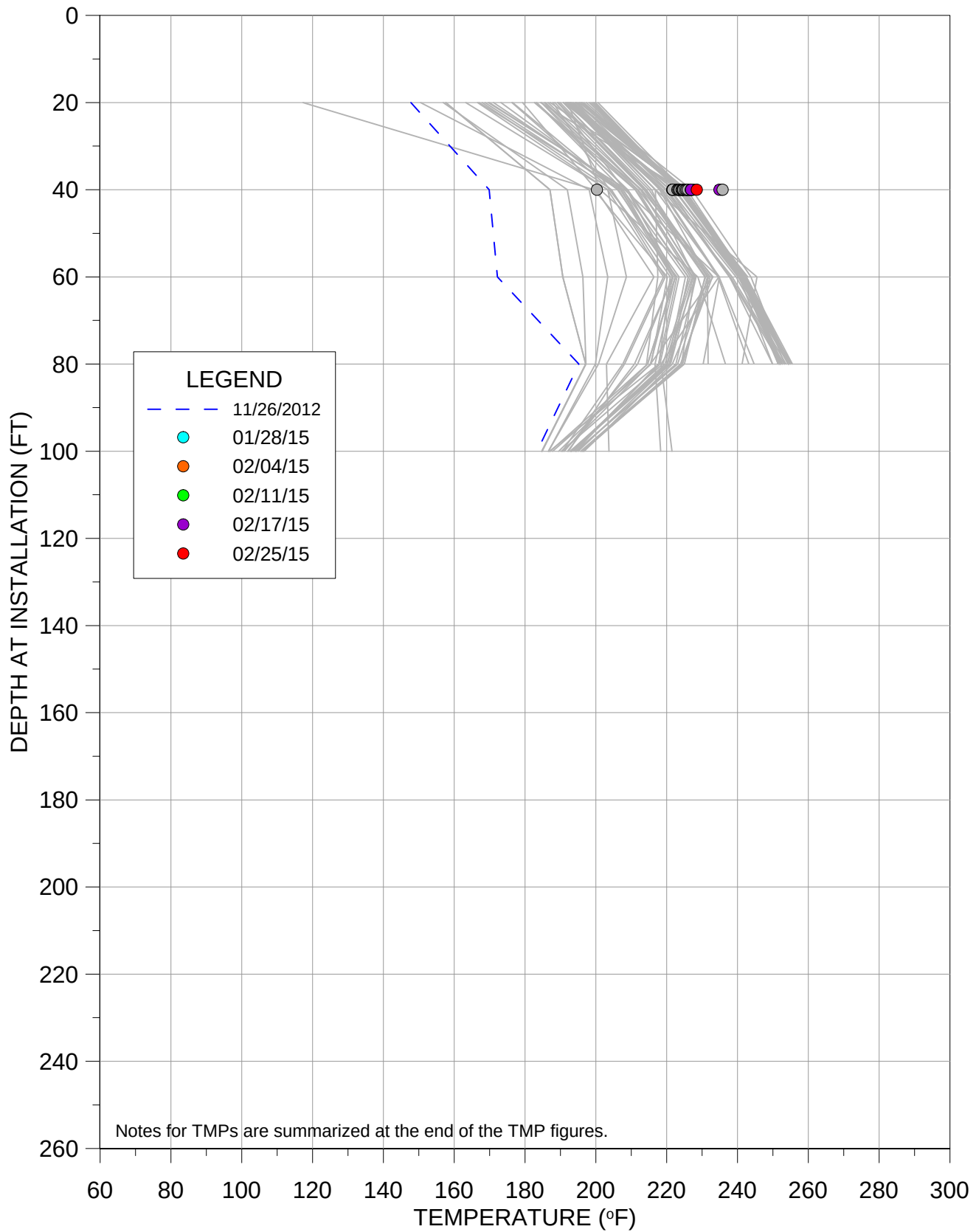


# TMP-8



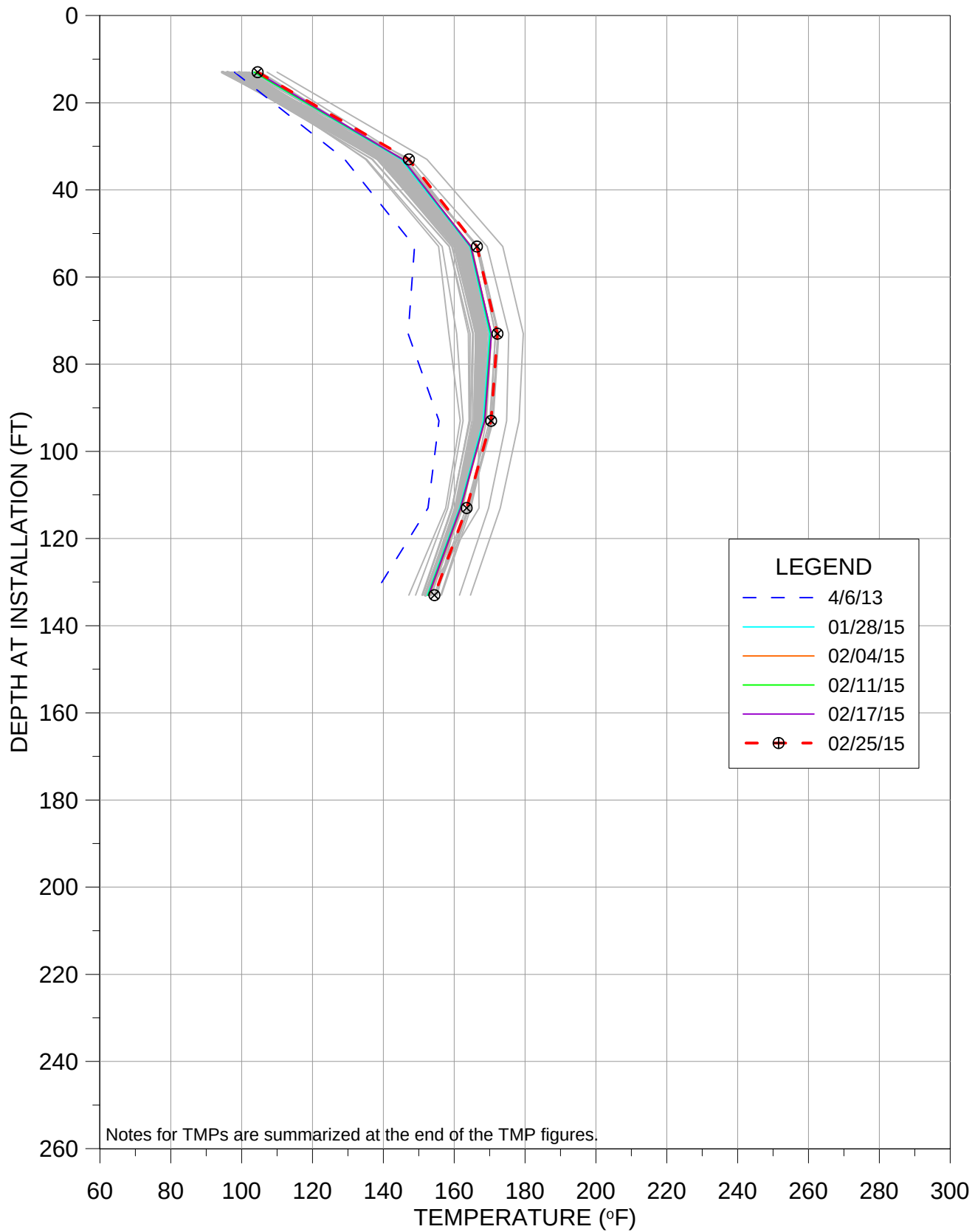
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-9

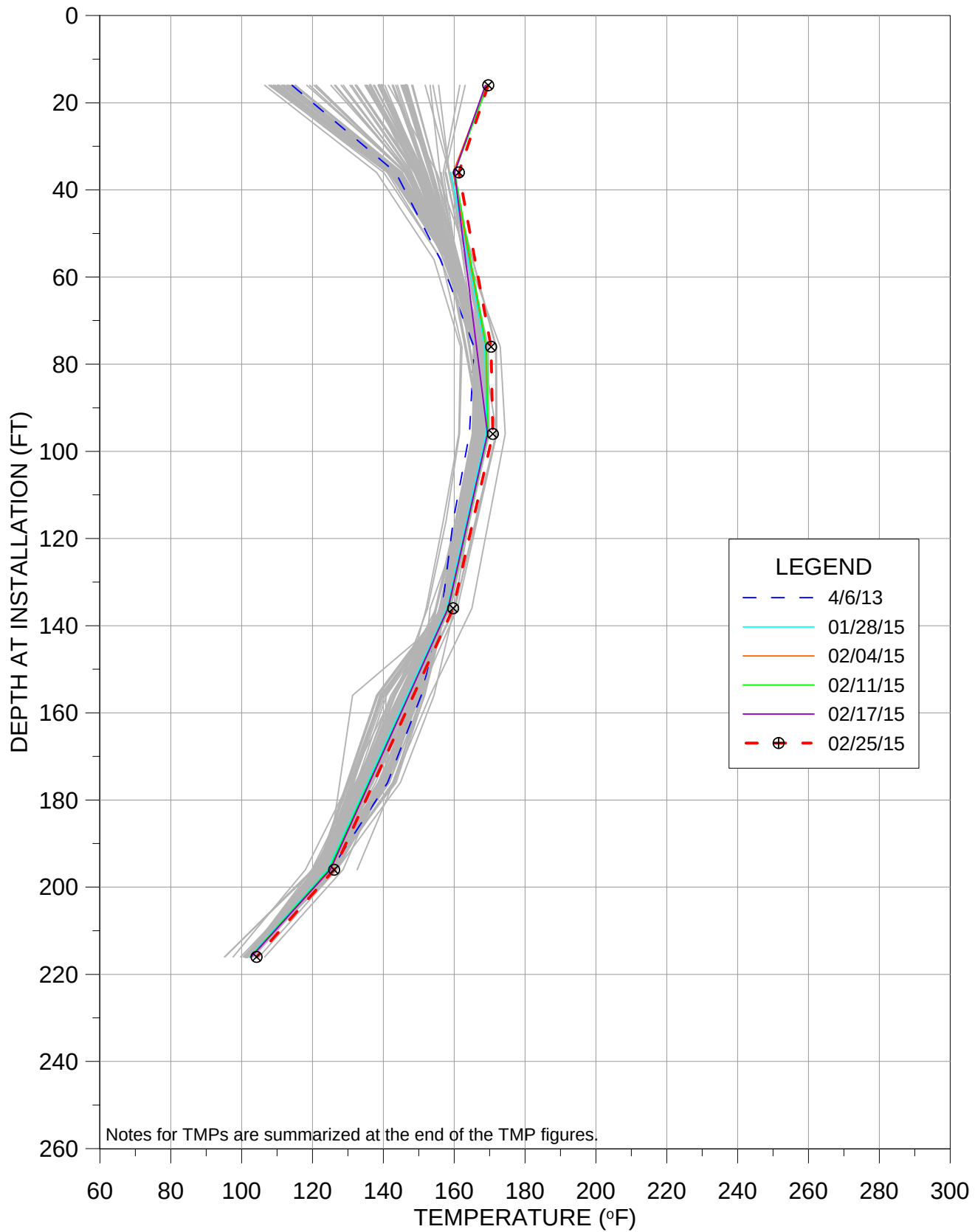


TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-10

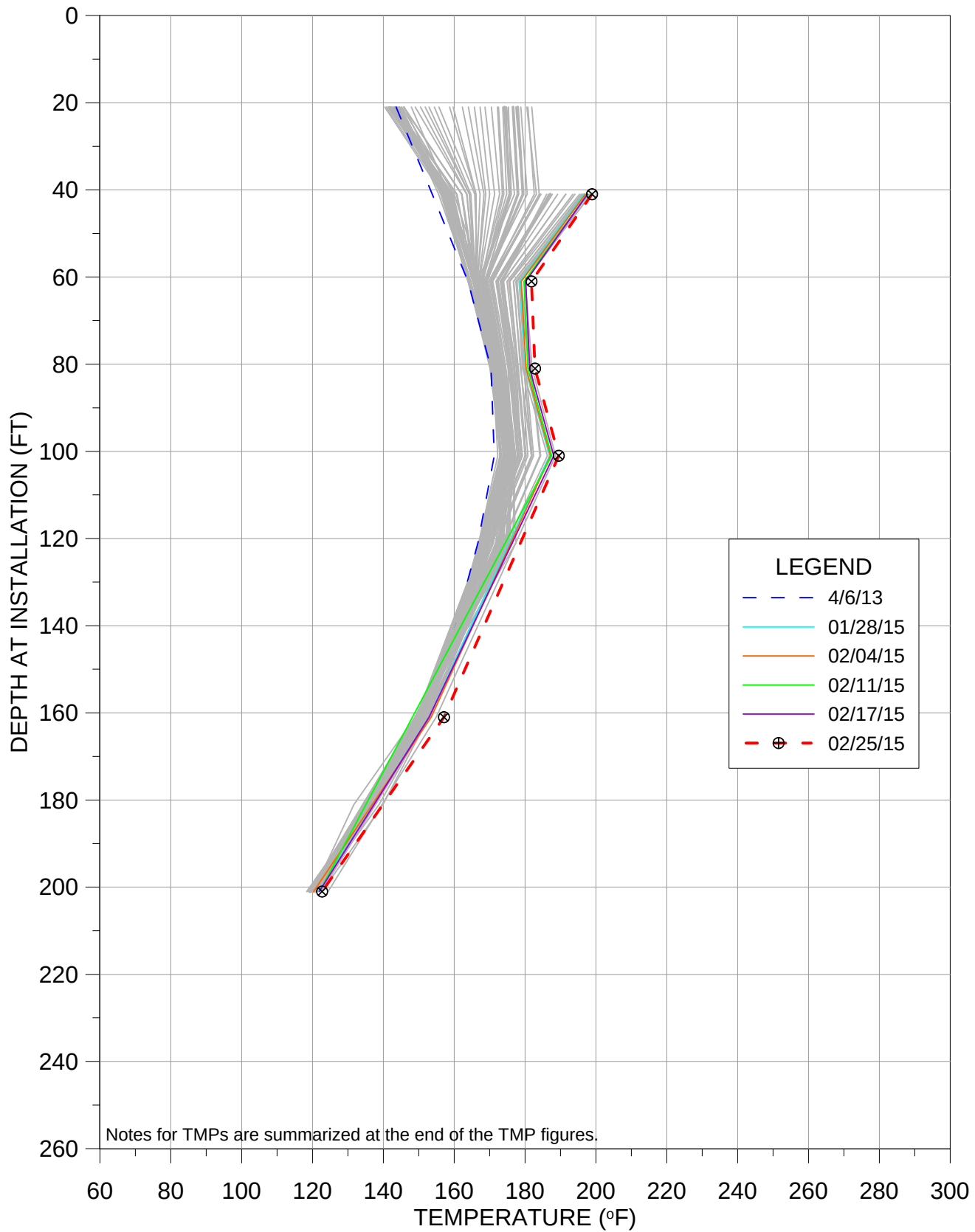


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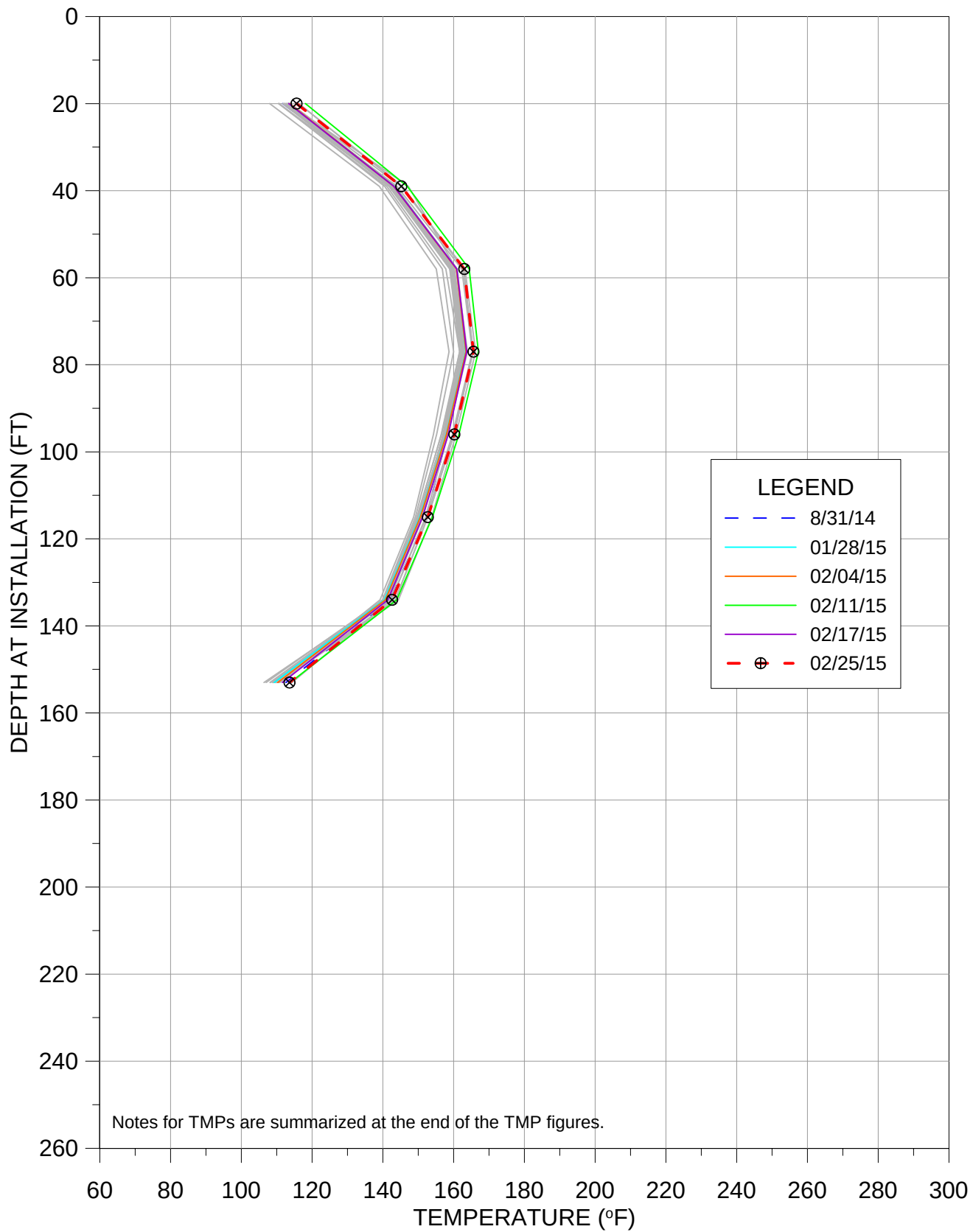
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# TMP-14

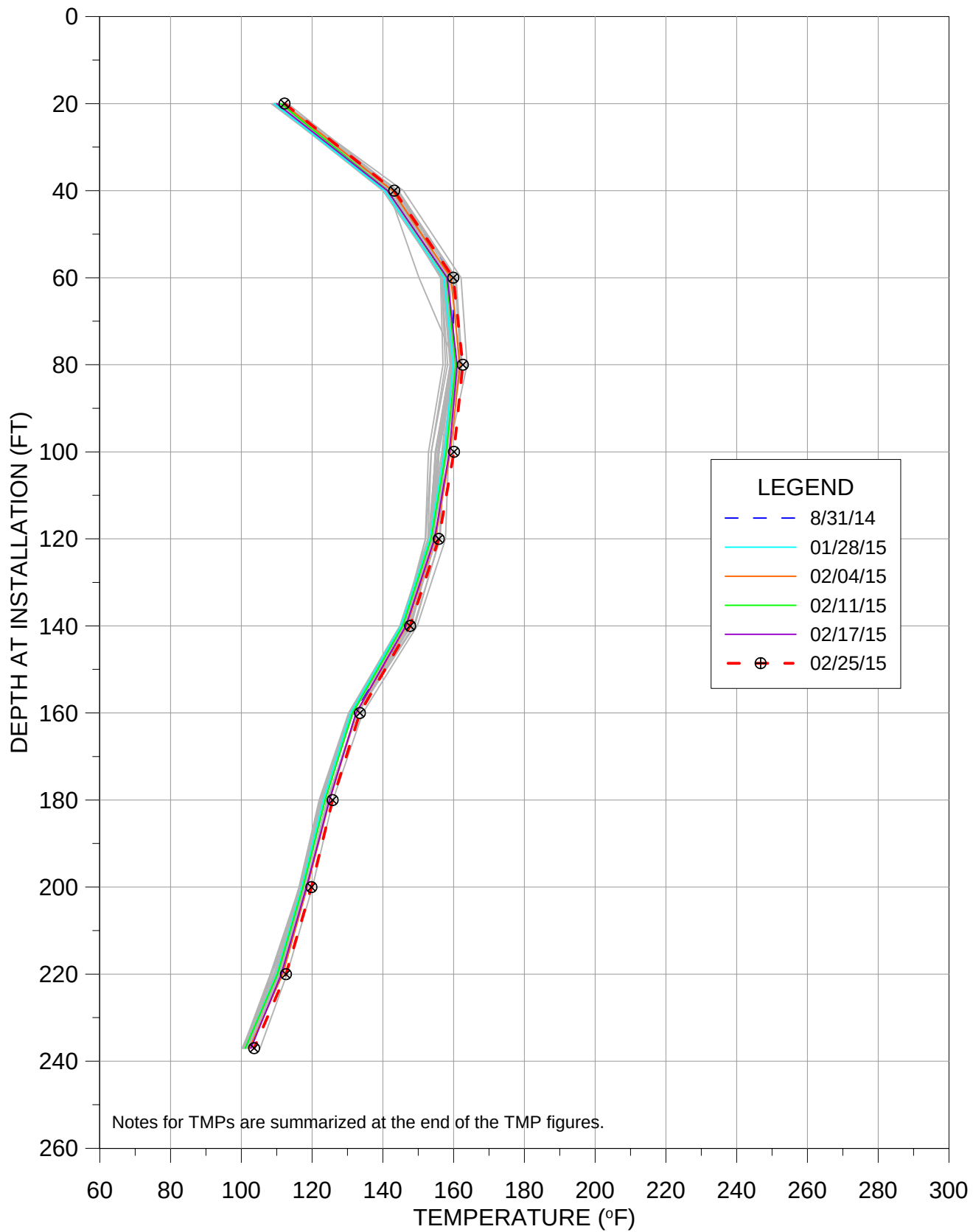


TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

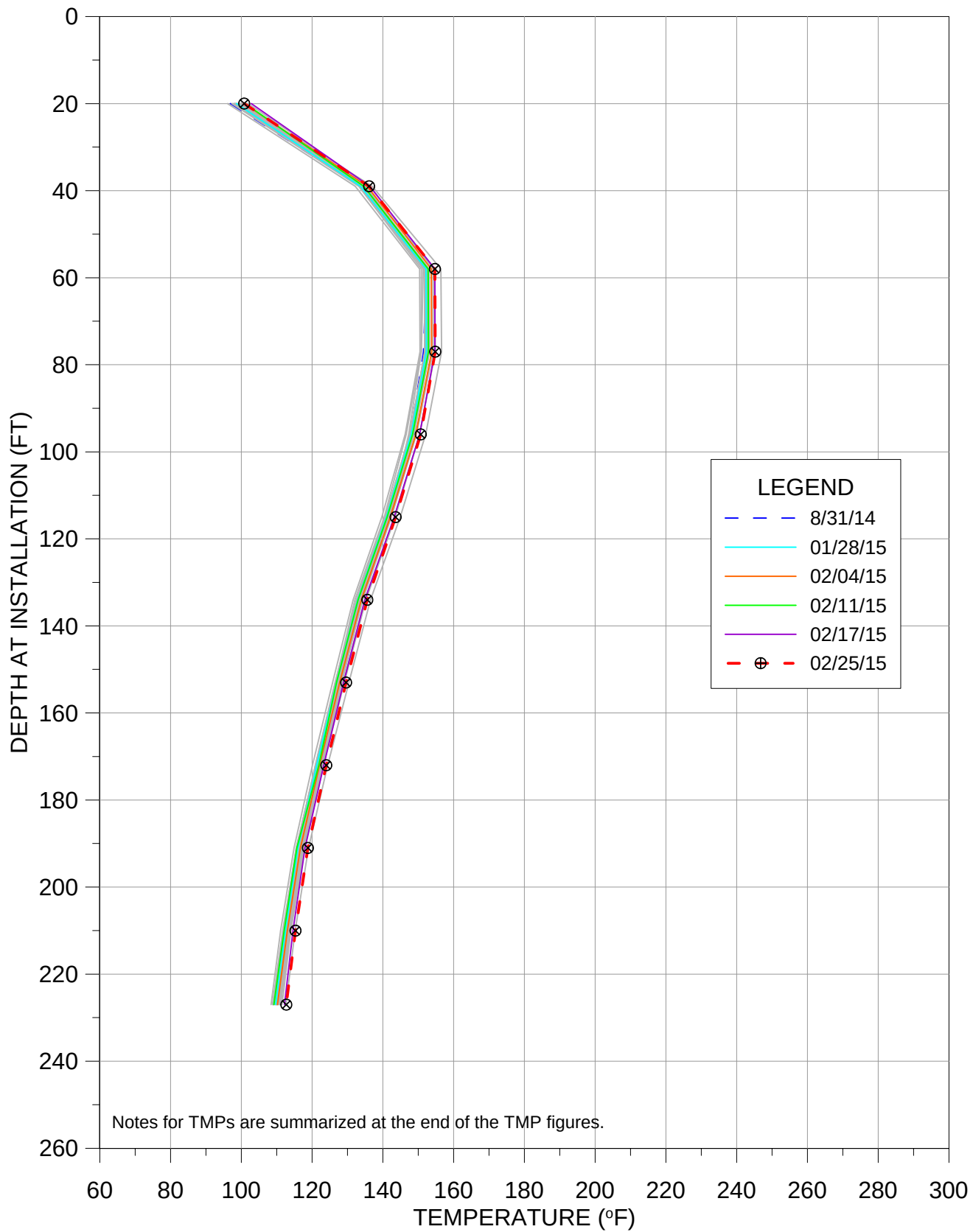
# TMP-16



# TMP-17

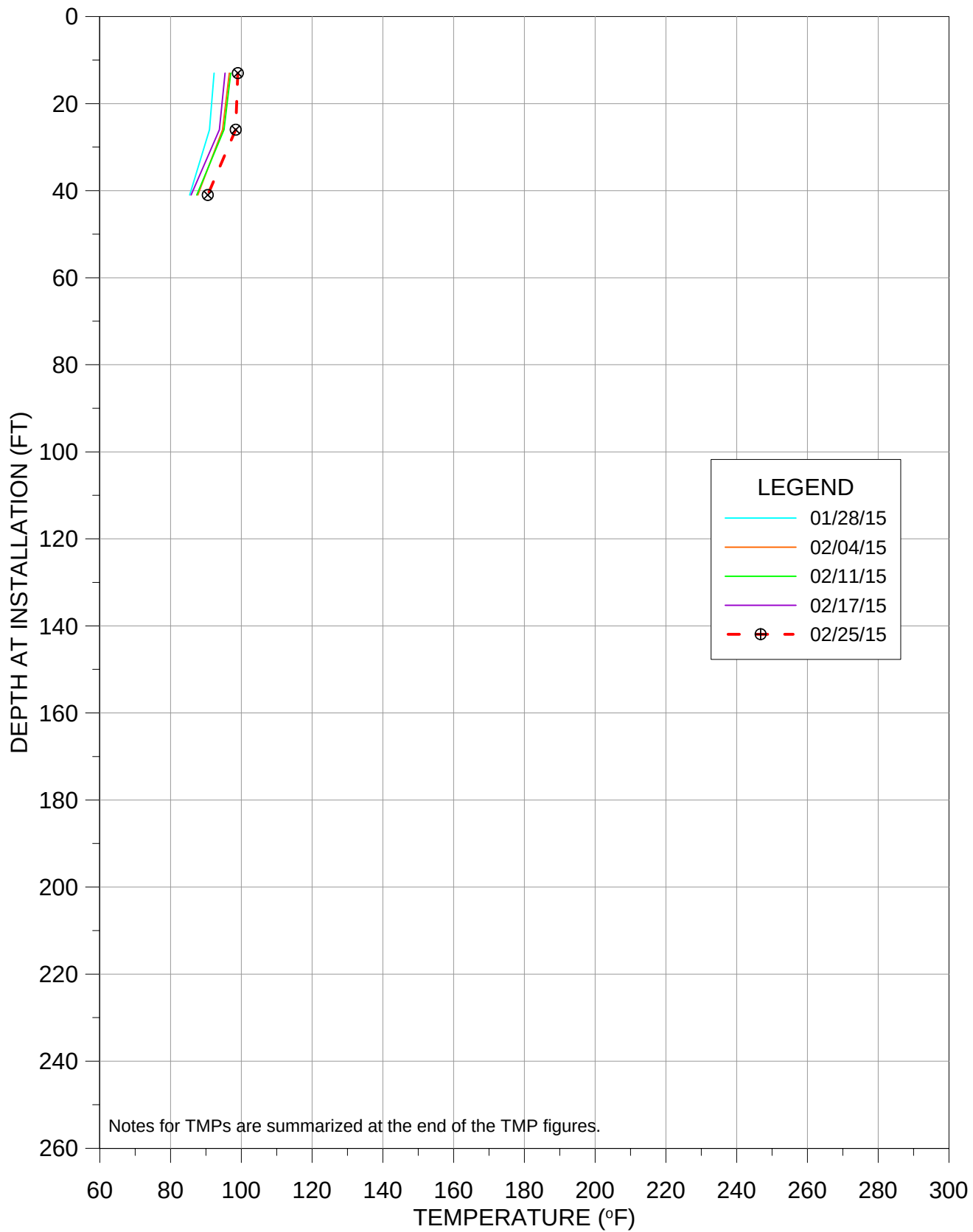


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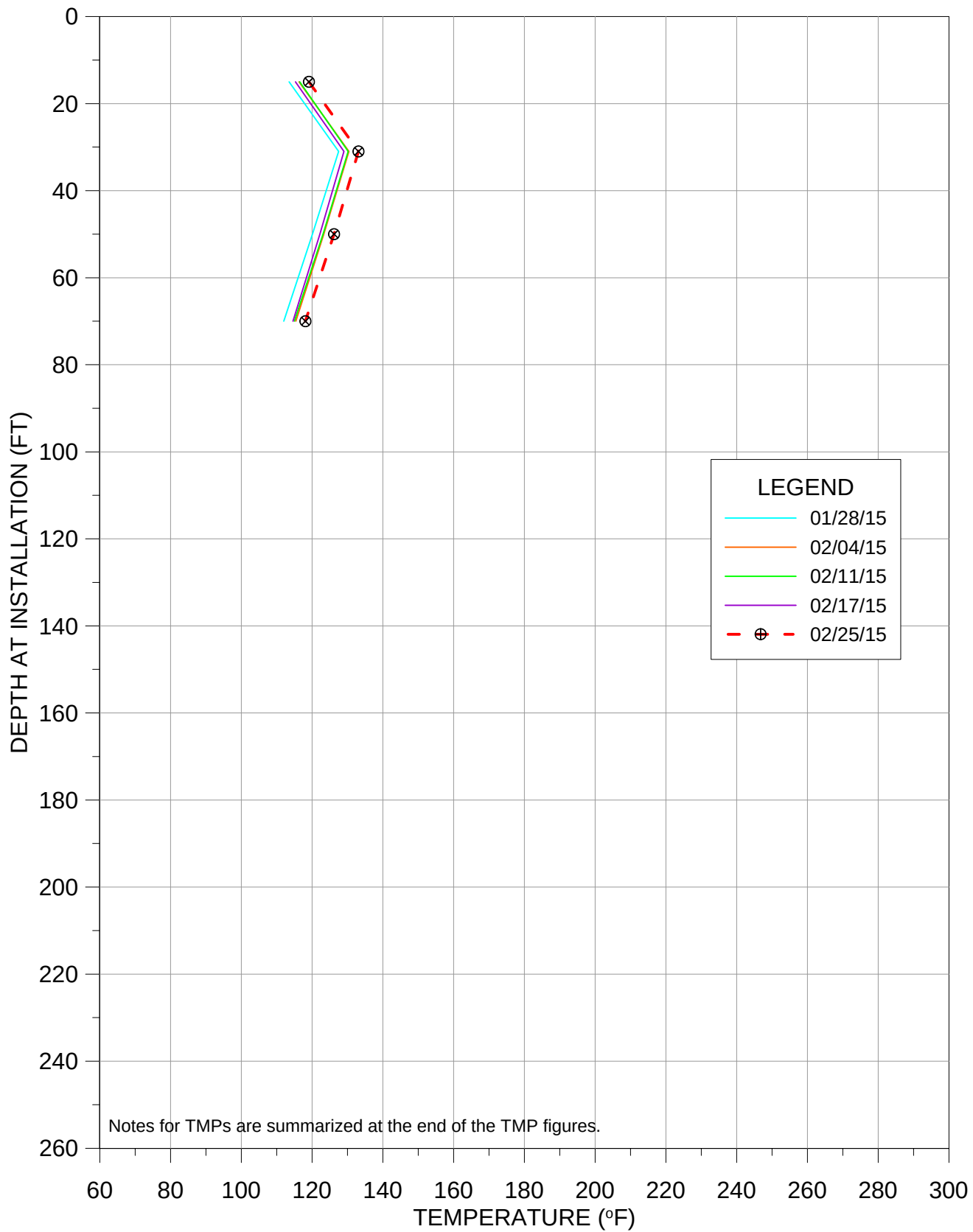




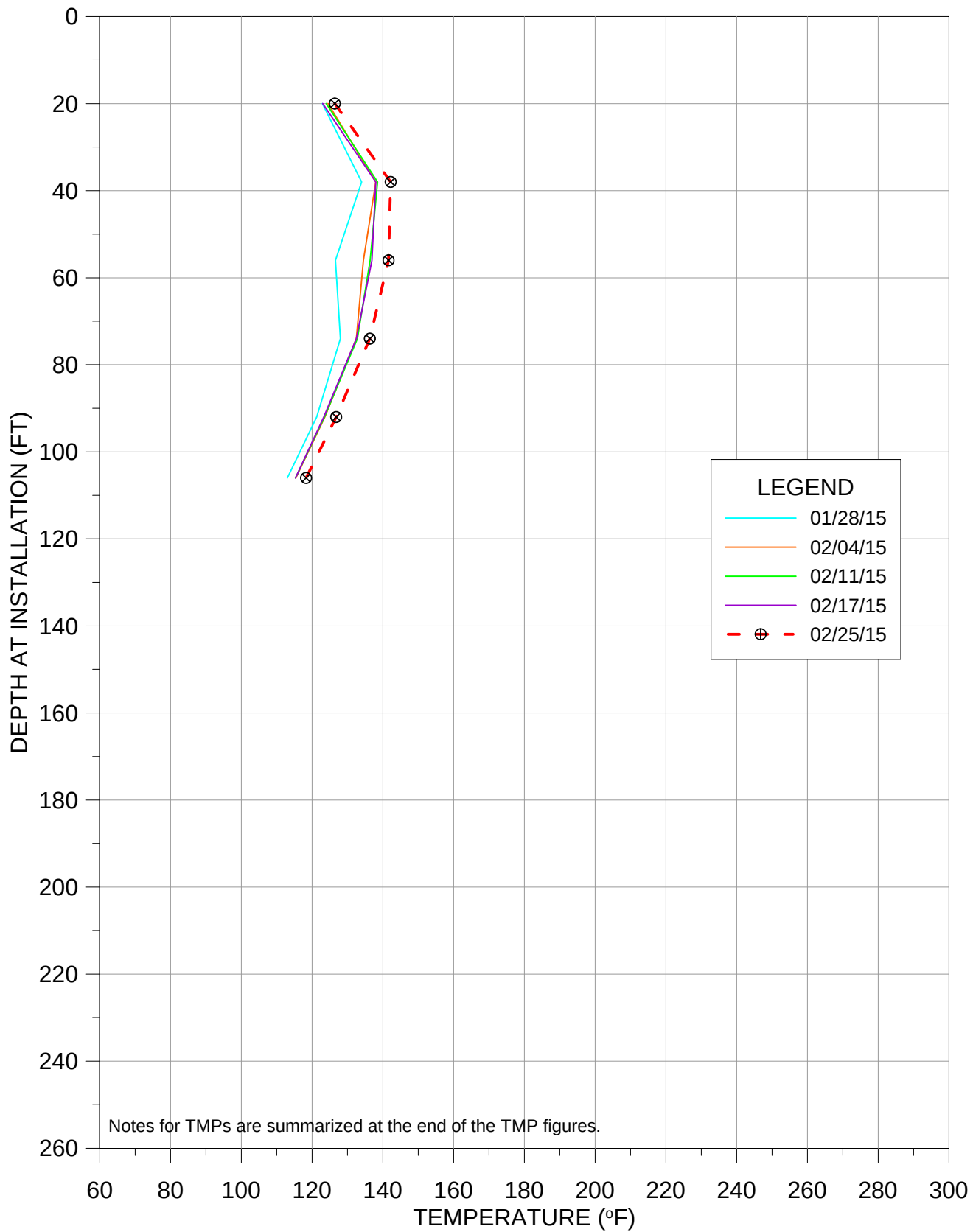
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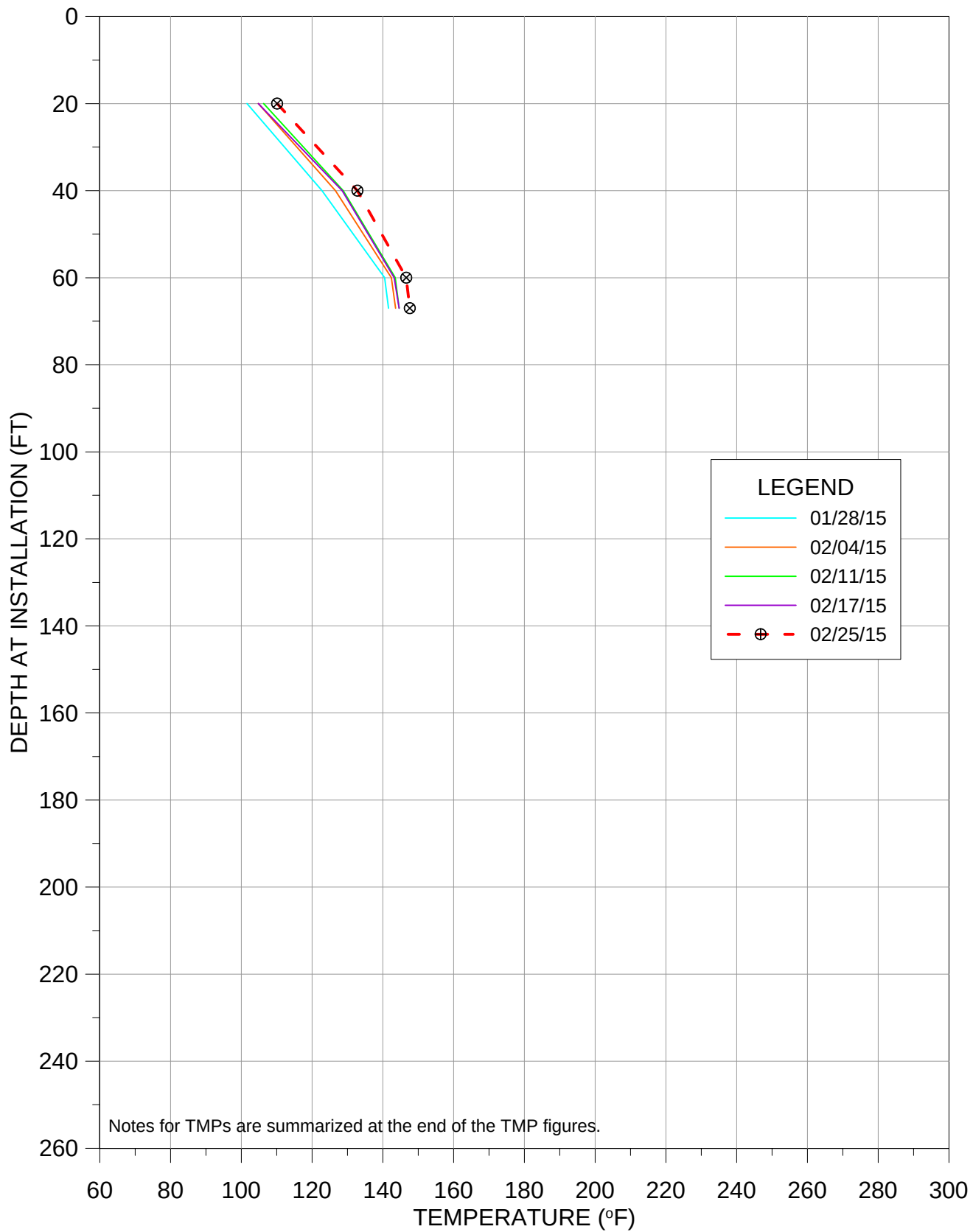
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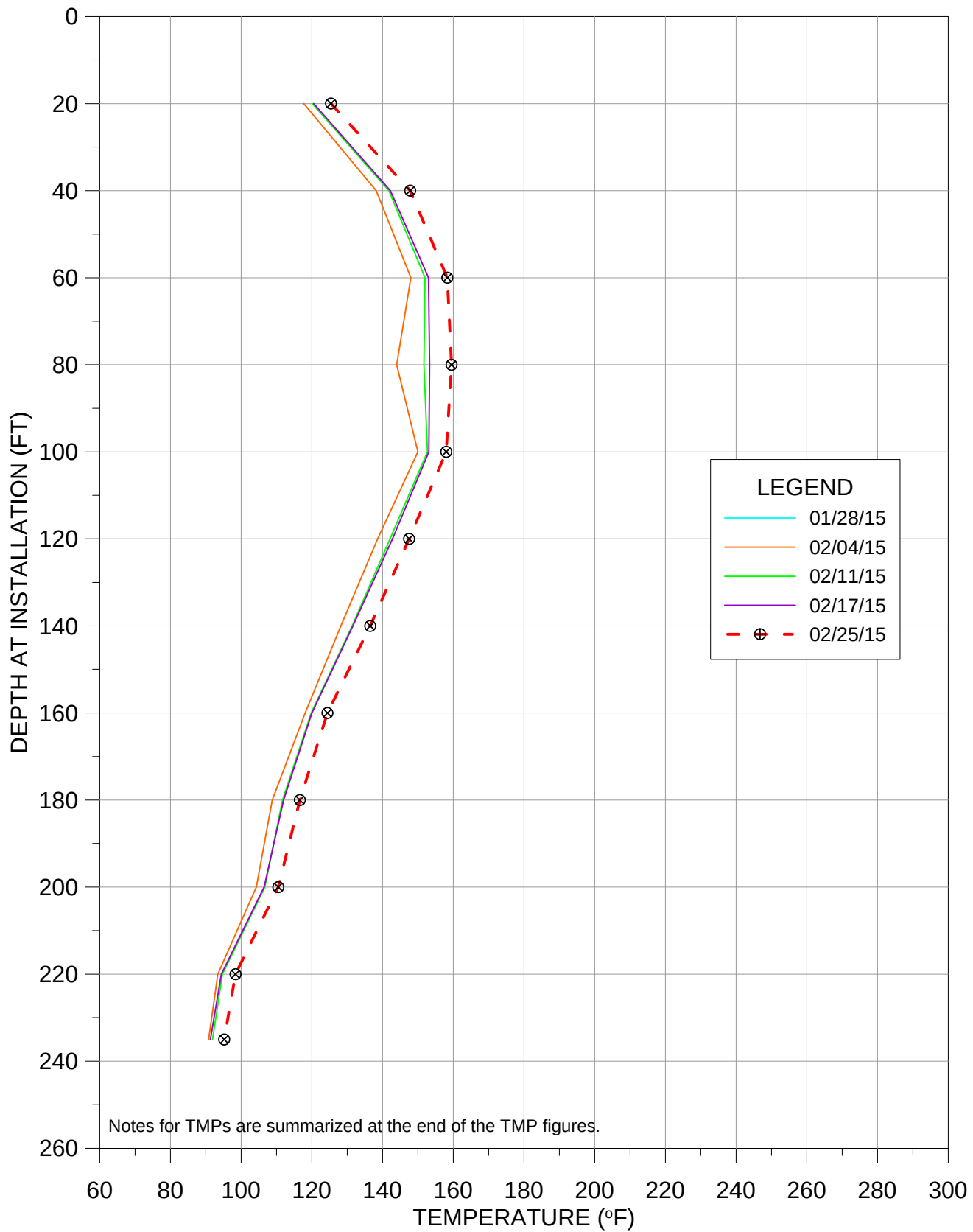
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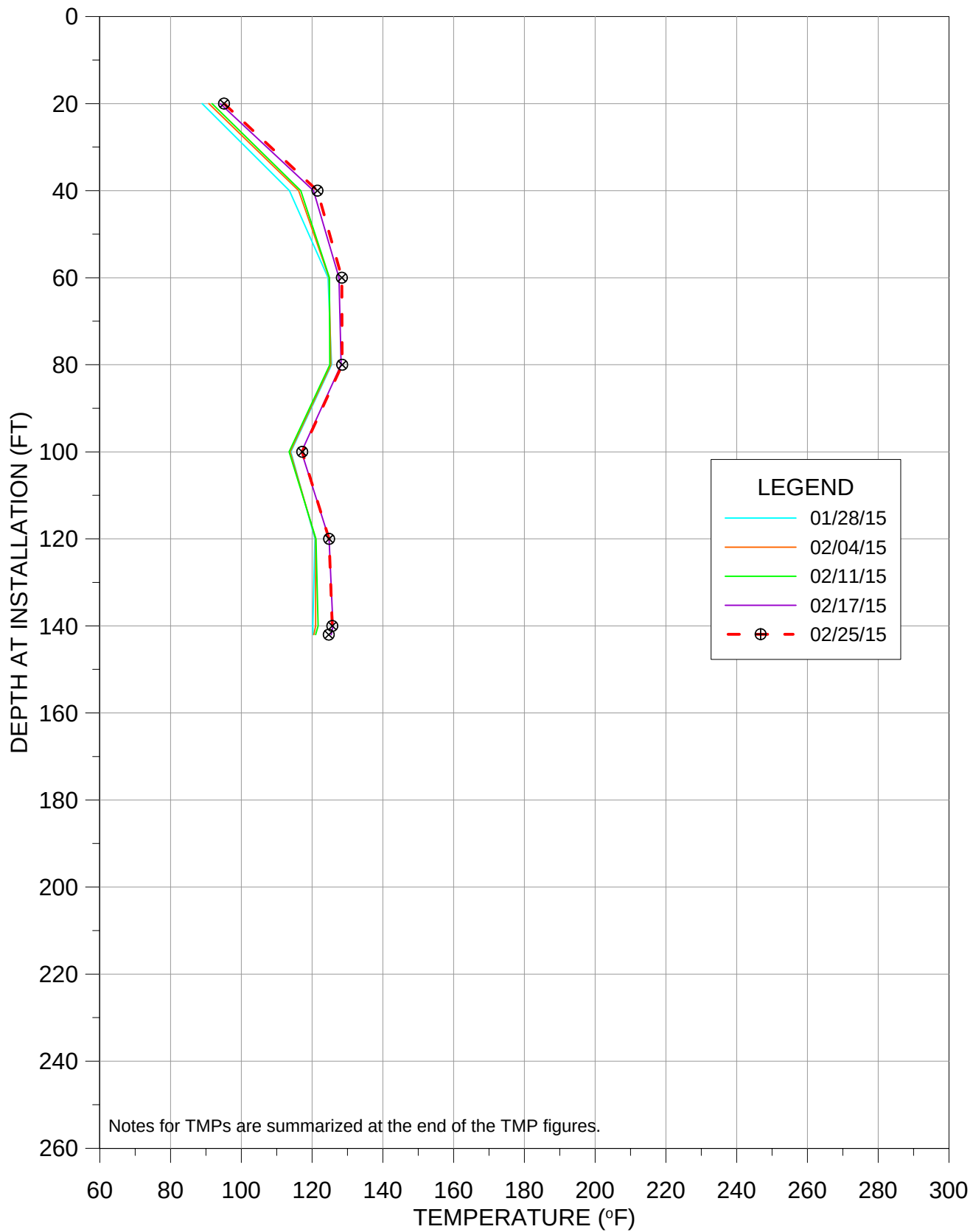
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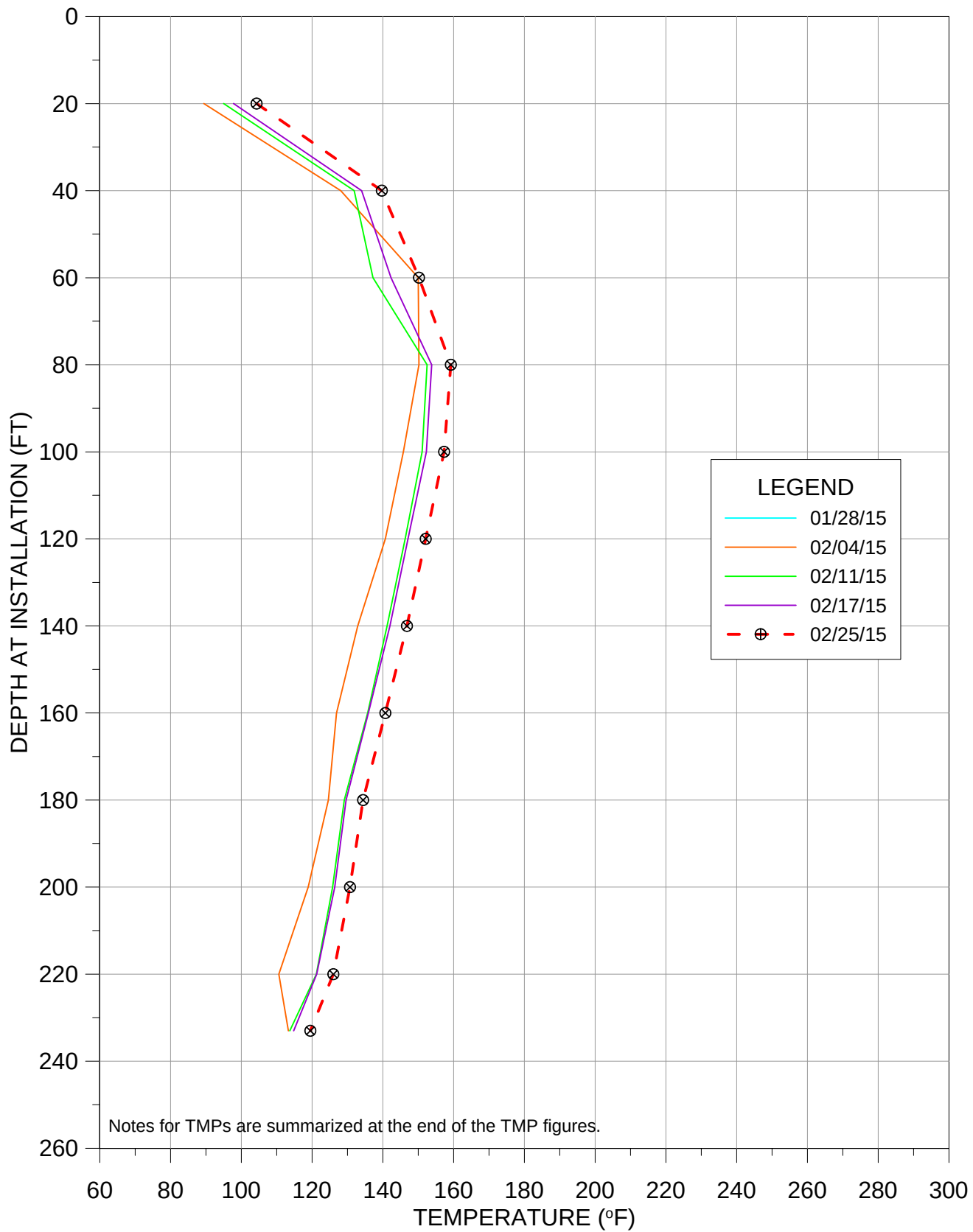
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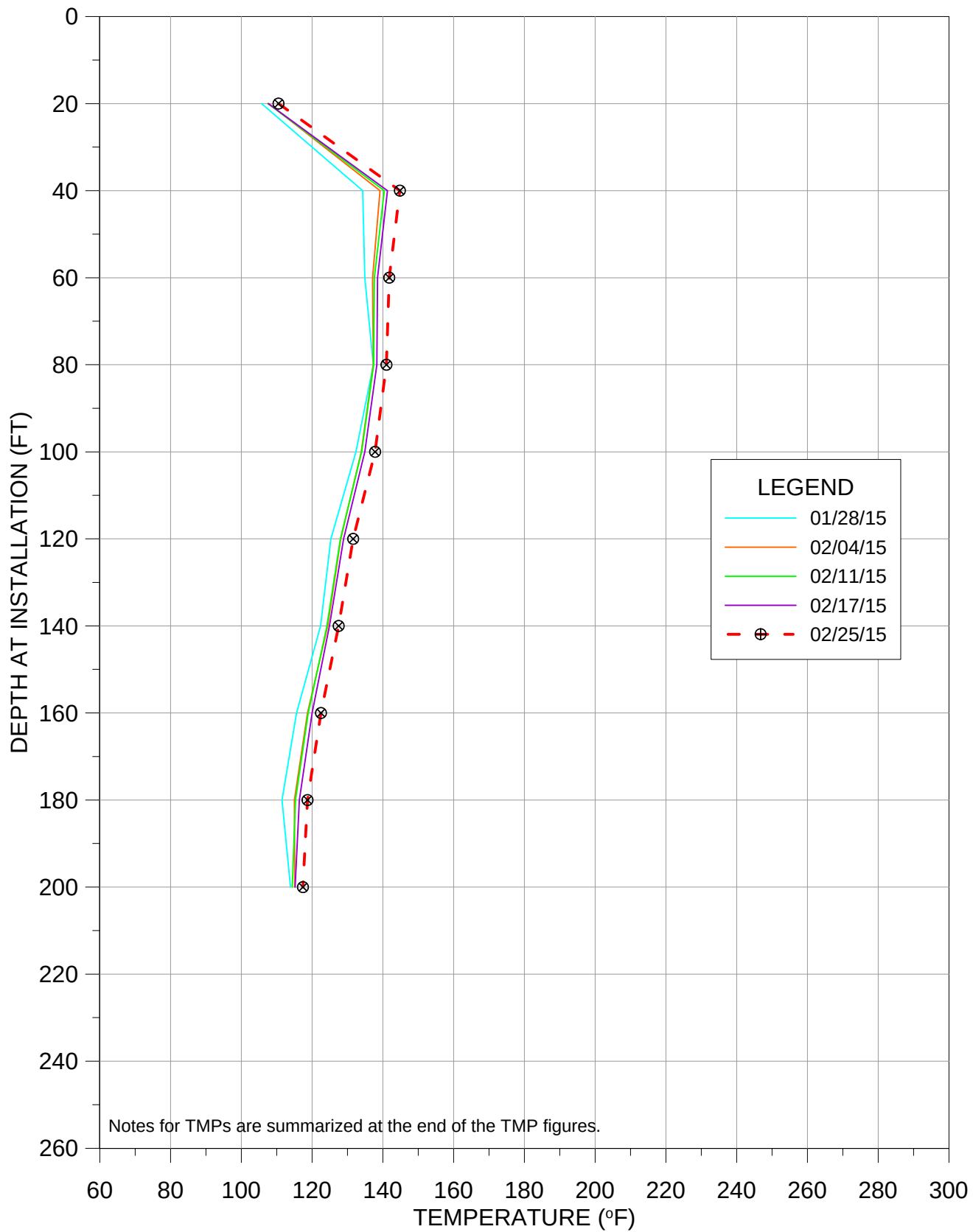
# TMP-26



# TMP-27

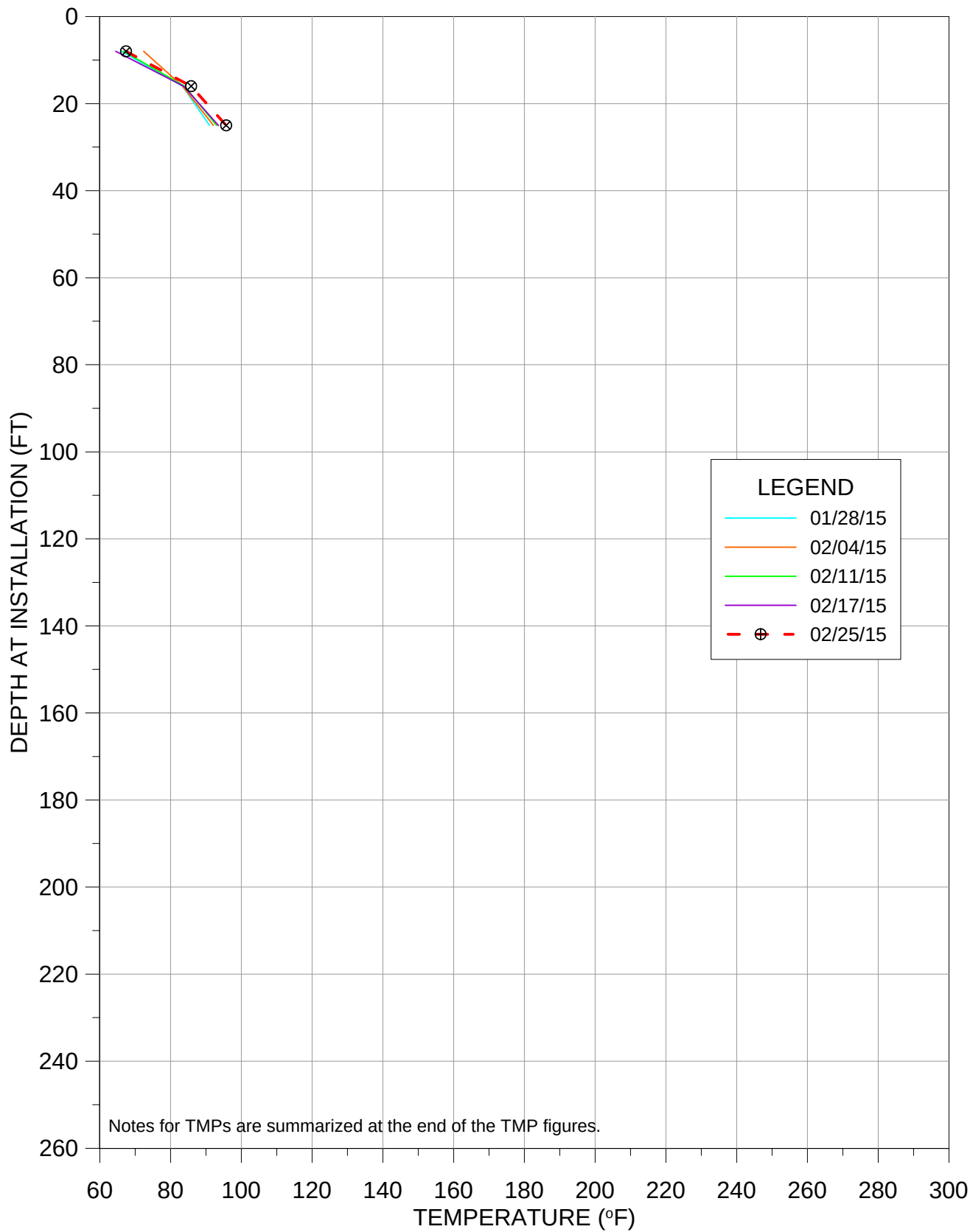


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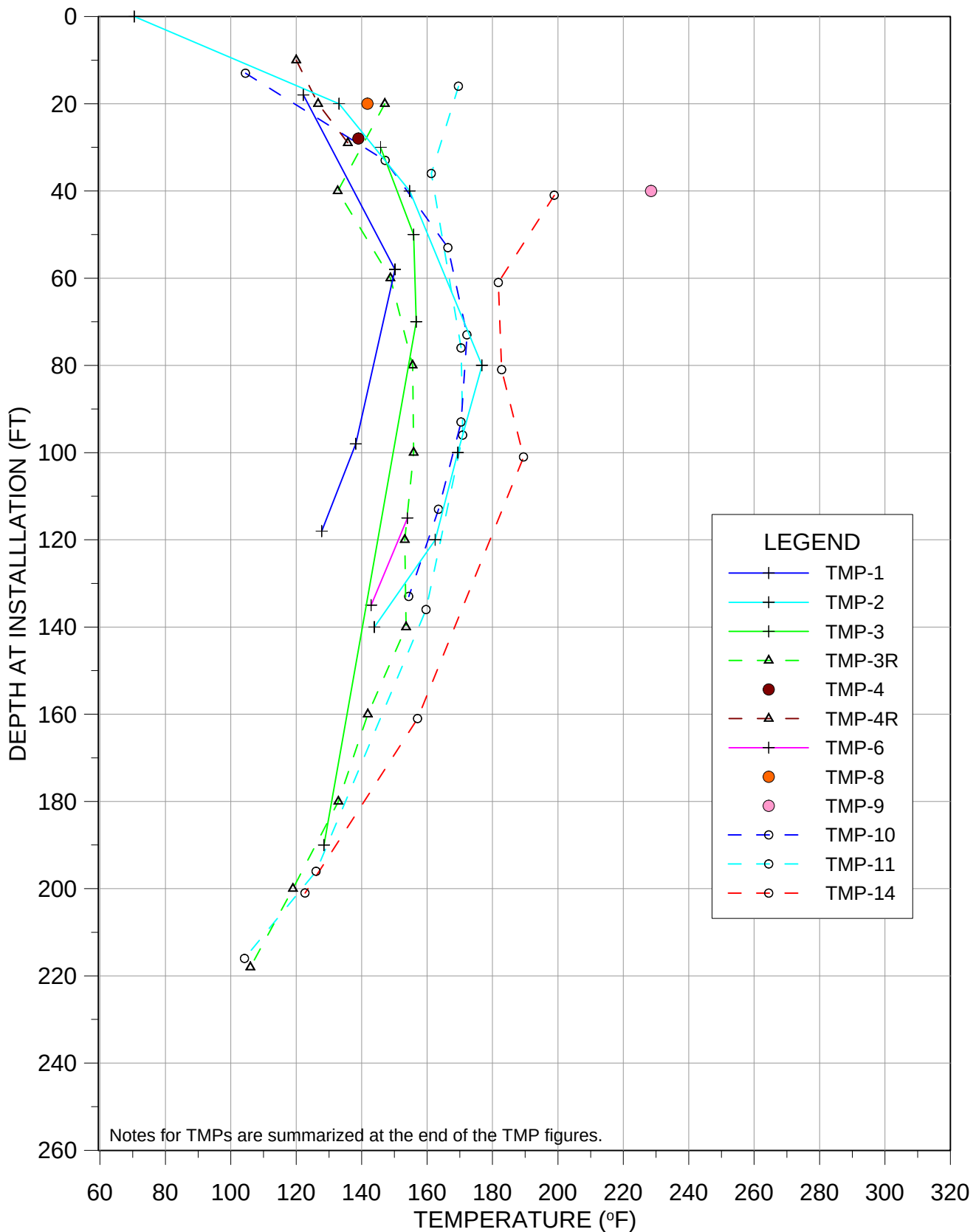




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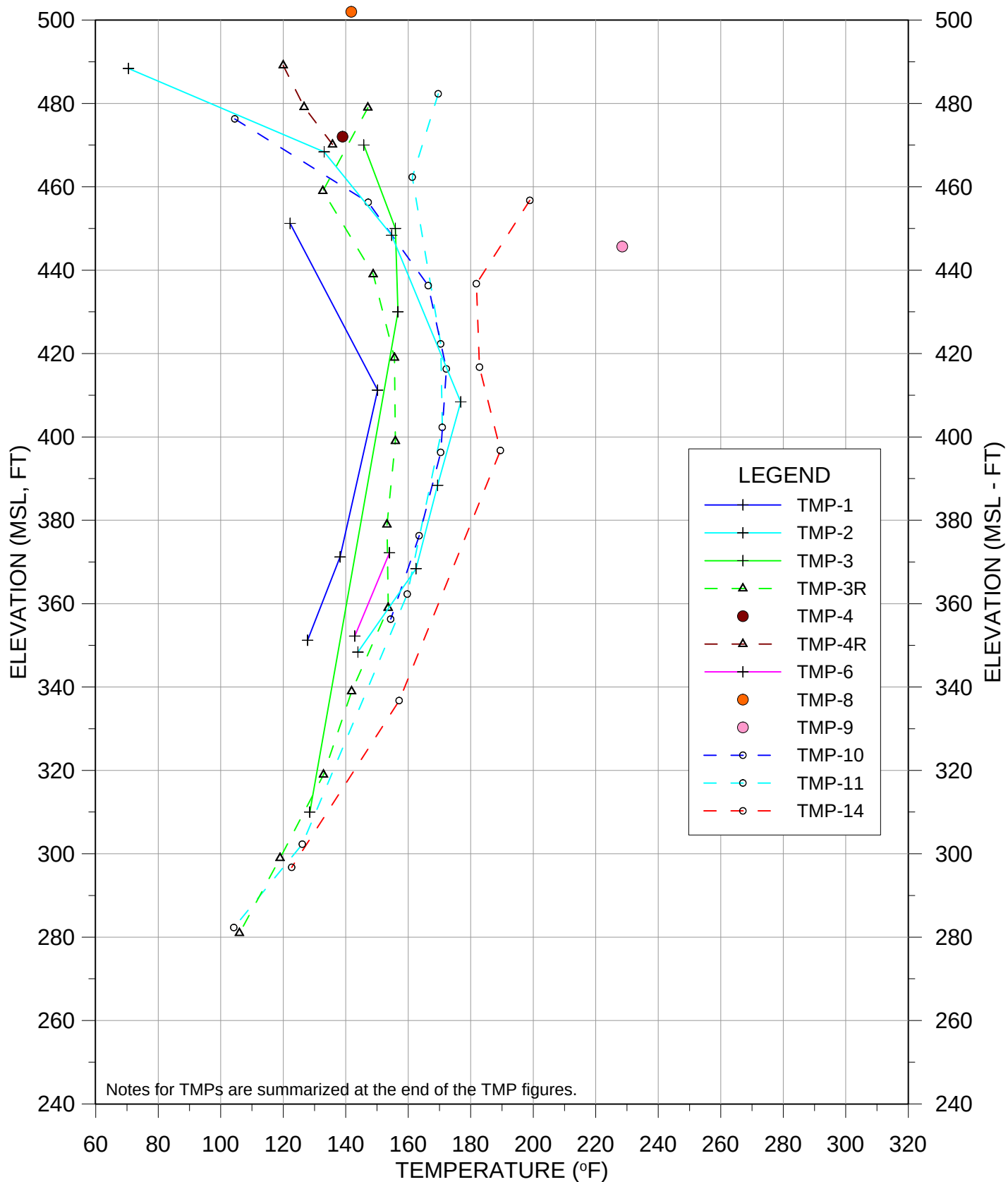


2/25/2015



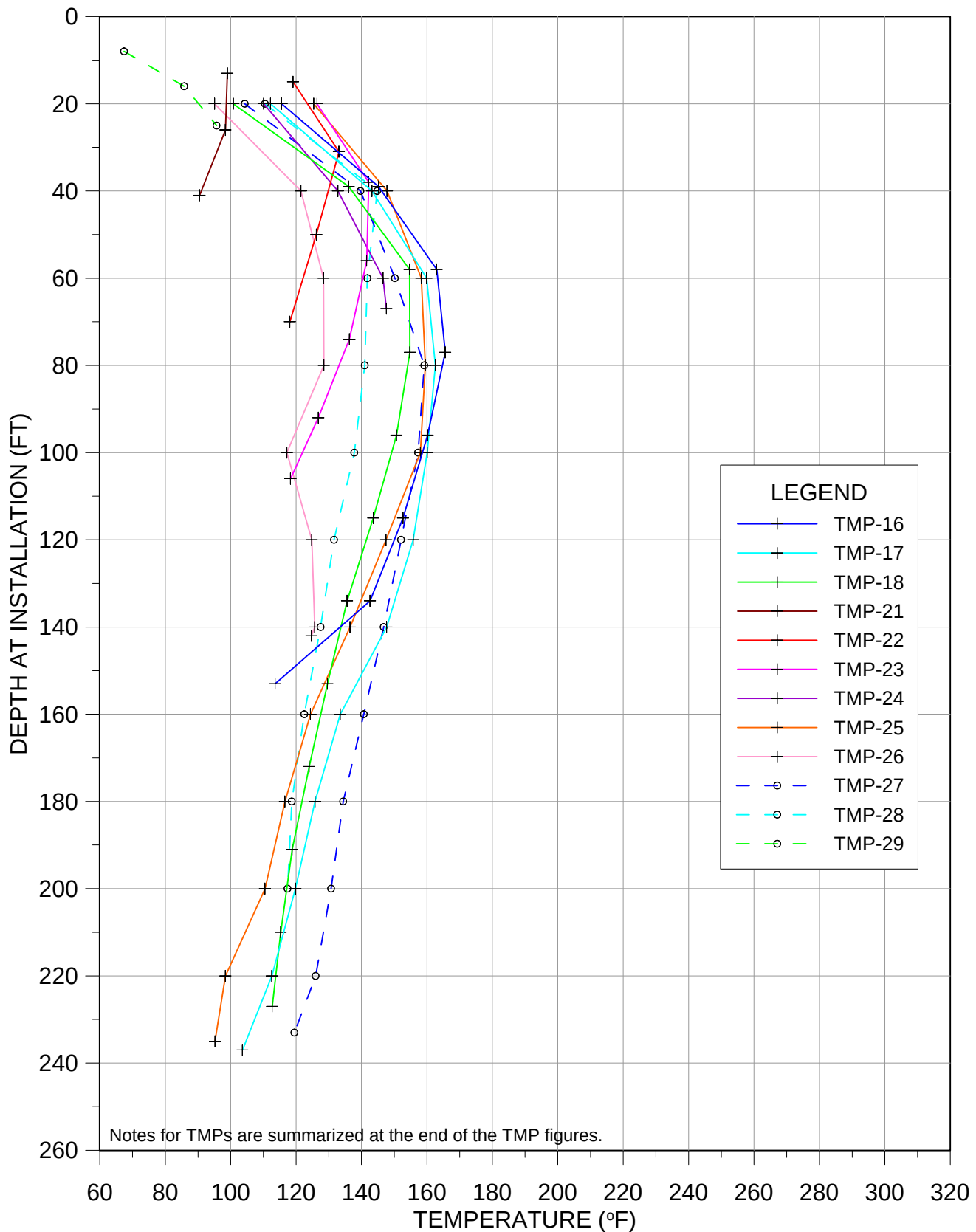
TEMPERATURE VS DEPTH  
BRIDGETON LANDFILL

# 2/25/2015

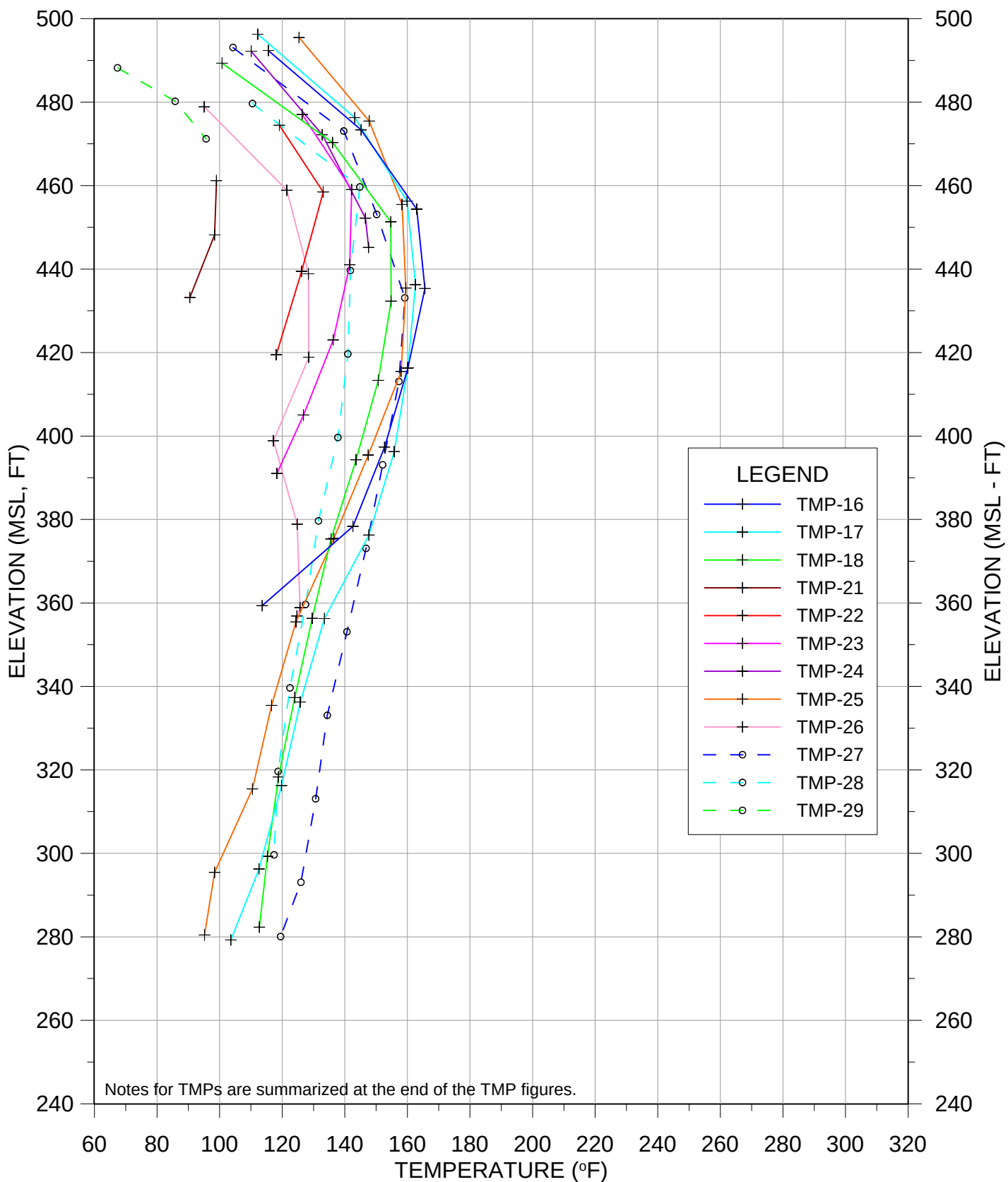


TEMPERATURE VS ELEVATION  
BRIDGETON LANDFILL

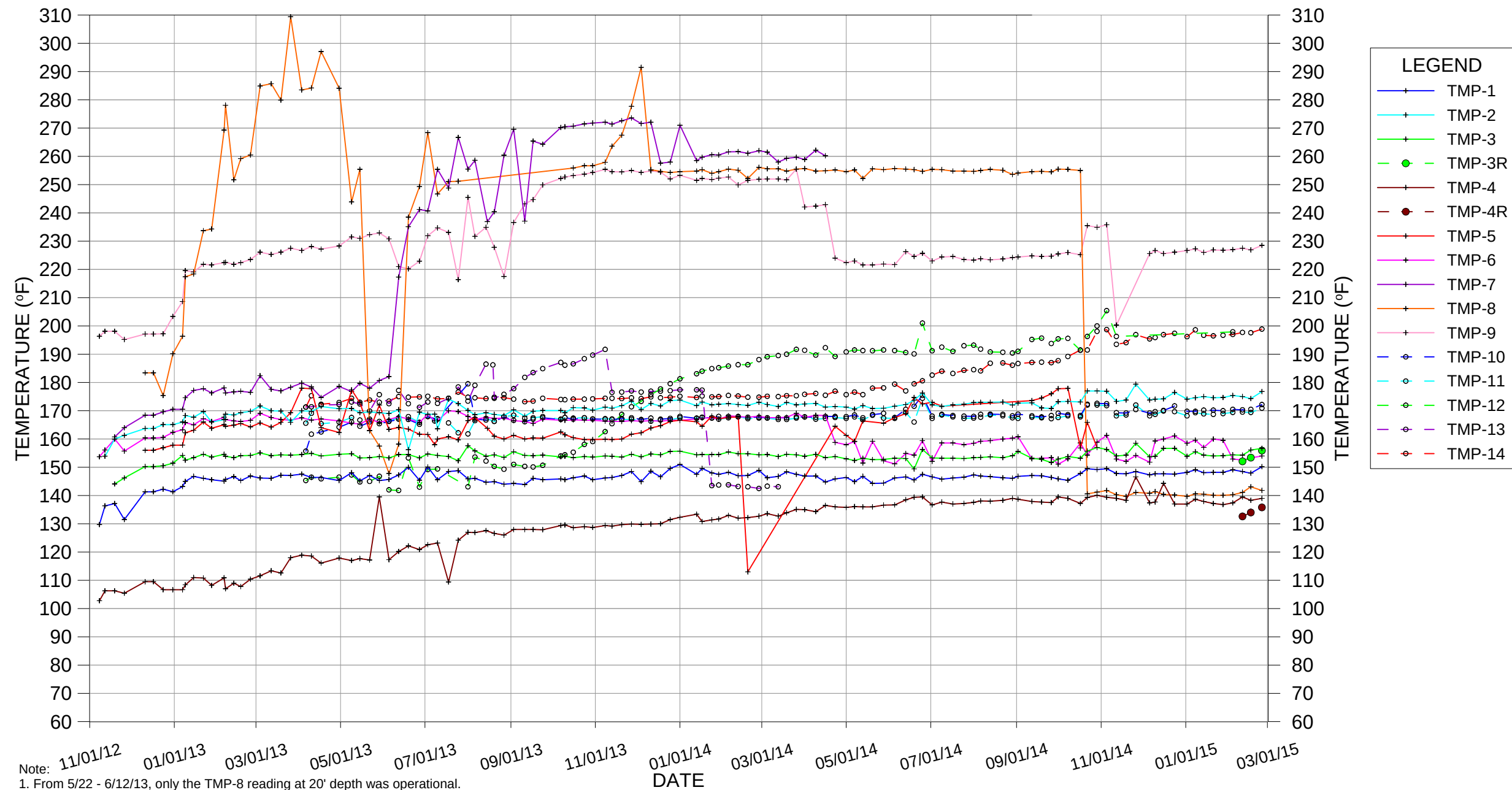
# 2/25/2015 - NORTH QUARRY



# 2/25/2015 - NORTH QUARRY

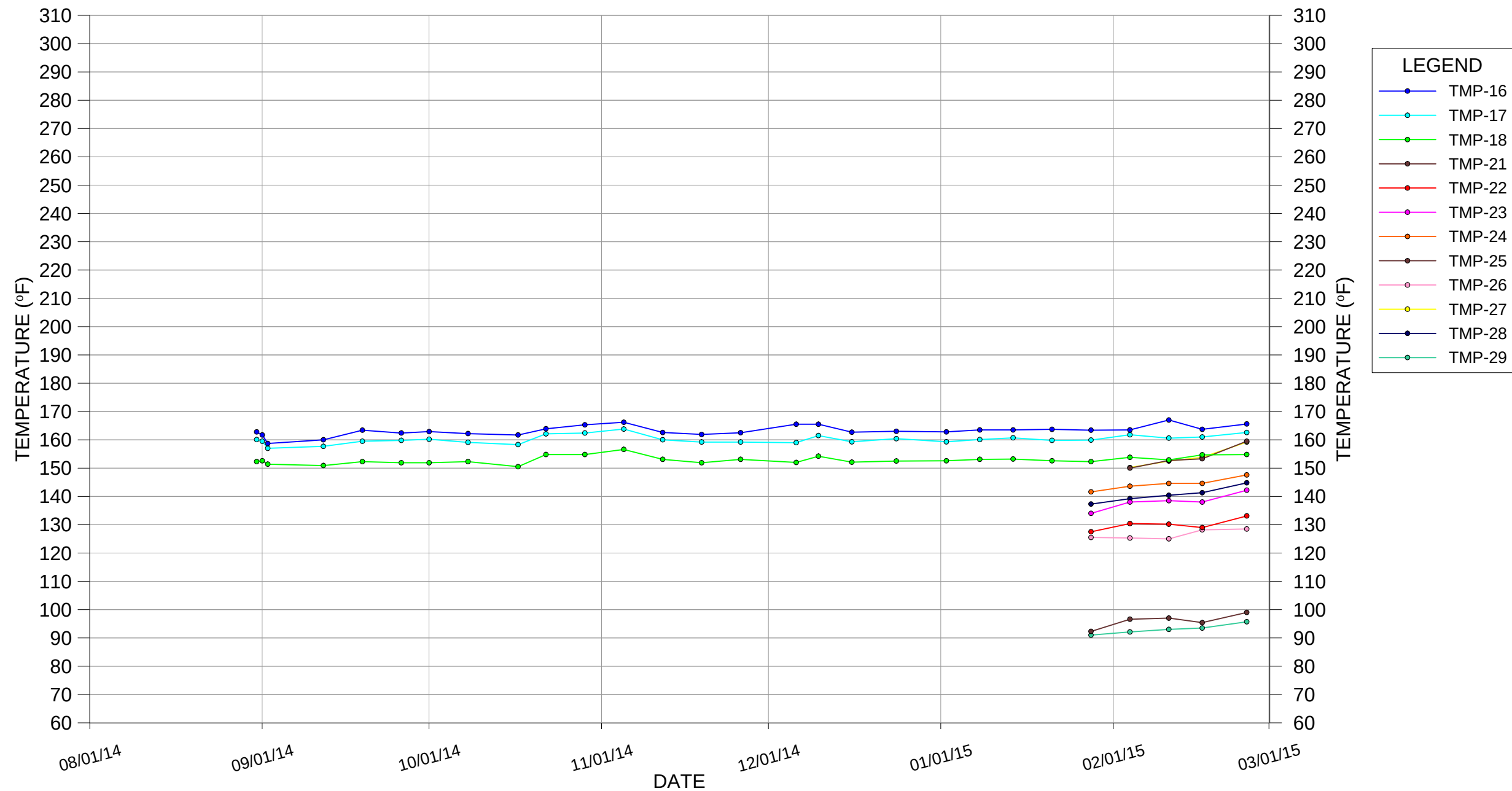


# MAXIMUM TEMPERATURES



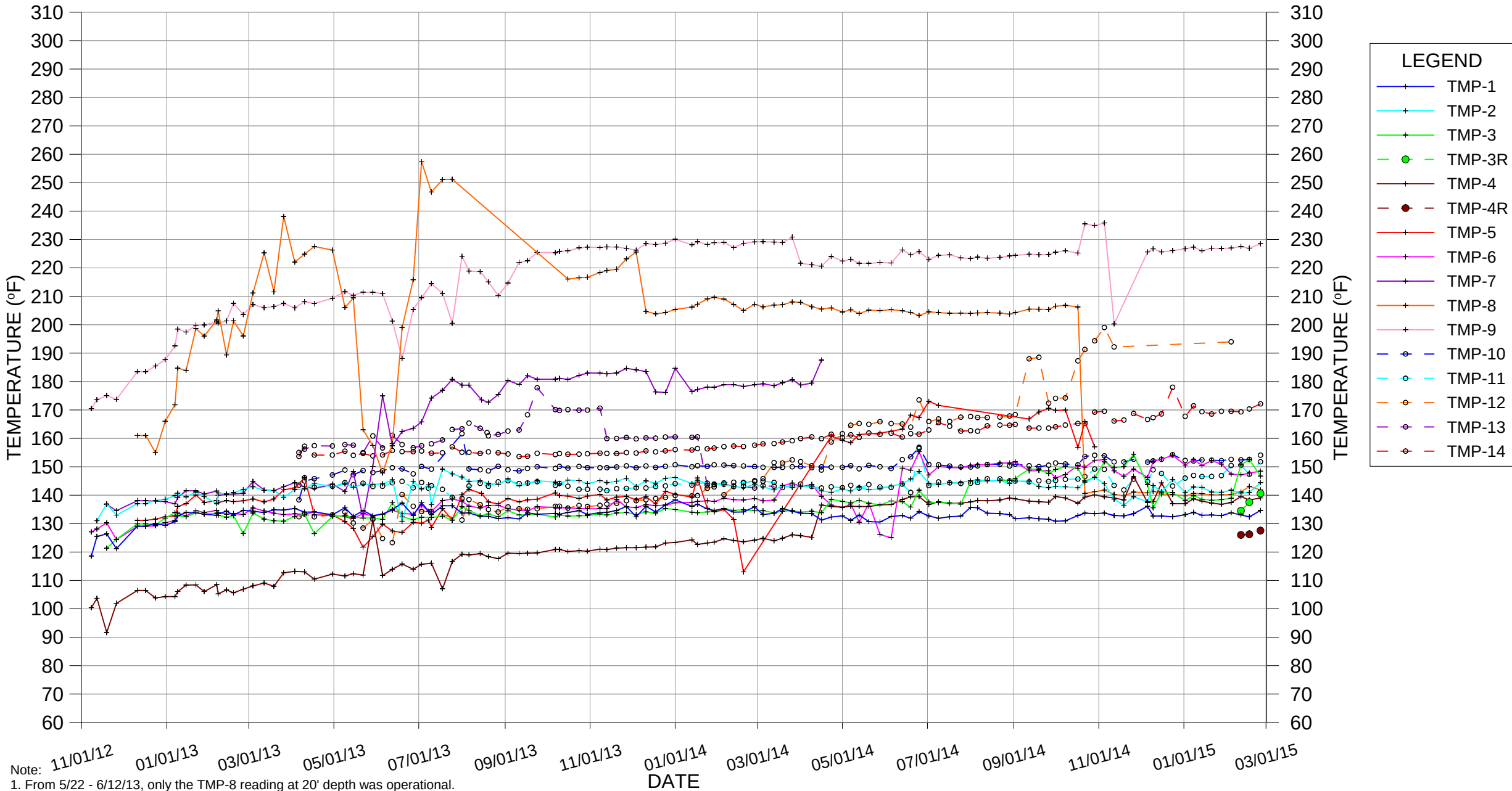
TEMPERATURE VS TIME  
BRIDGETON LANDFILL

# MAXIMUM TEMPERATURES - NORTH QUARRY



TEMPERATURE VS TIME  
BRIDGETON LANDFILL

# AVERAGE TEMPERATURES



Note: 11/01/12

01/01/13

03/01/13

05/01/13

07/01/13

09/01/13

11/01/13

01/01/14

03/01/14

05/01/14

07/01/14

09/01/14

11/01/14

01/01/15

03/01/15

1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational.  
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.

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

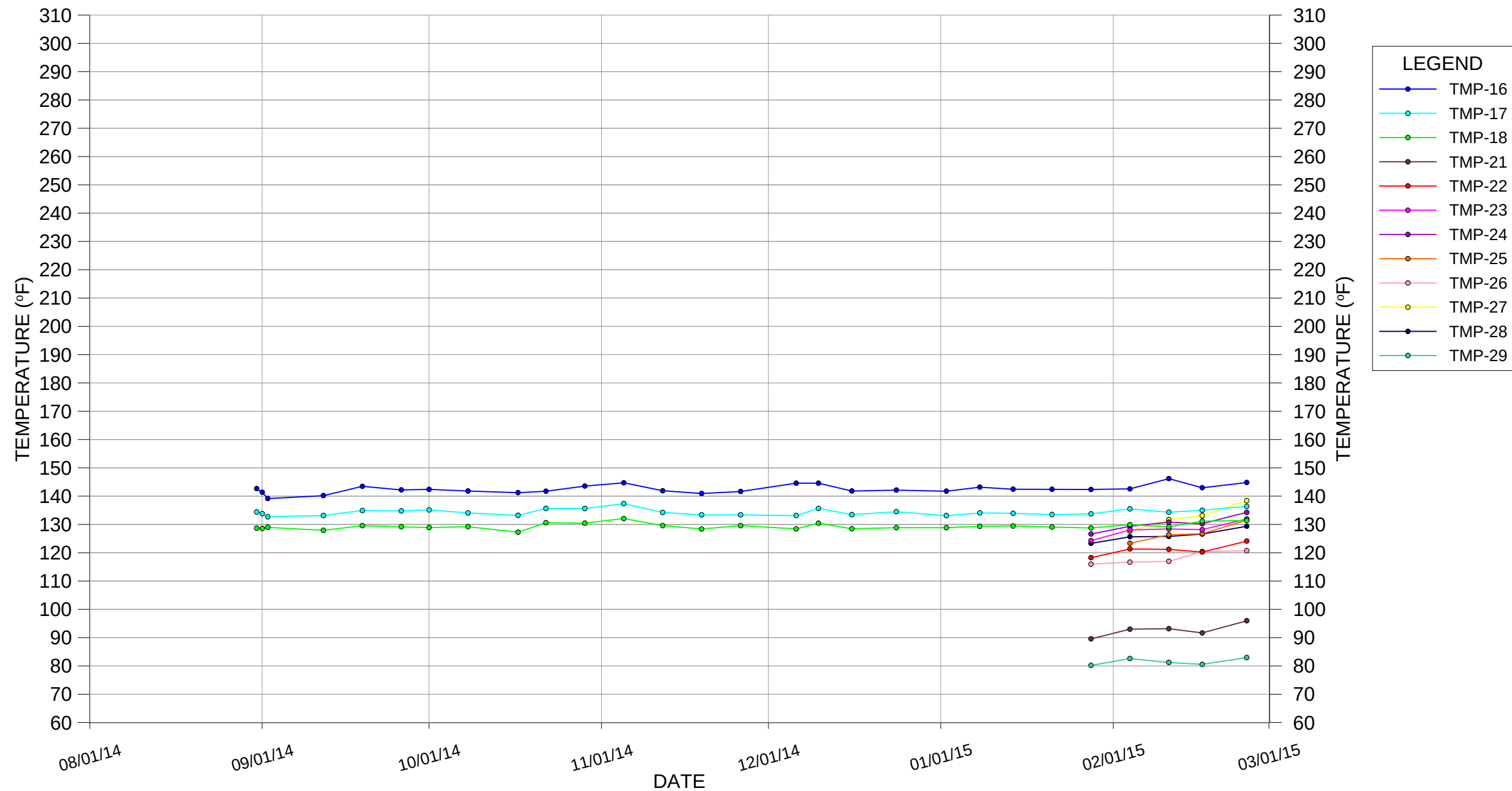
3. No valid readings were obtained for TMP-10 and TMP-12 on 7/18/2013 or 7/25/2013.

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.

TEMPERATURE VS TIME  
BRIDGETON LANDFILL



# AVERAGE TEMPERATURES - NORTH QUARRY



TEMPERATURE VS TIME  
BRIDGETON LANDFILL

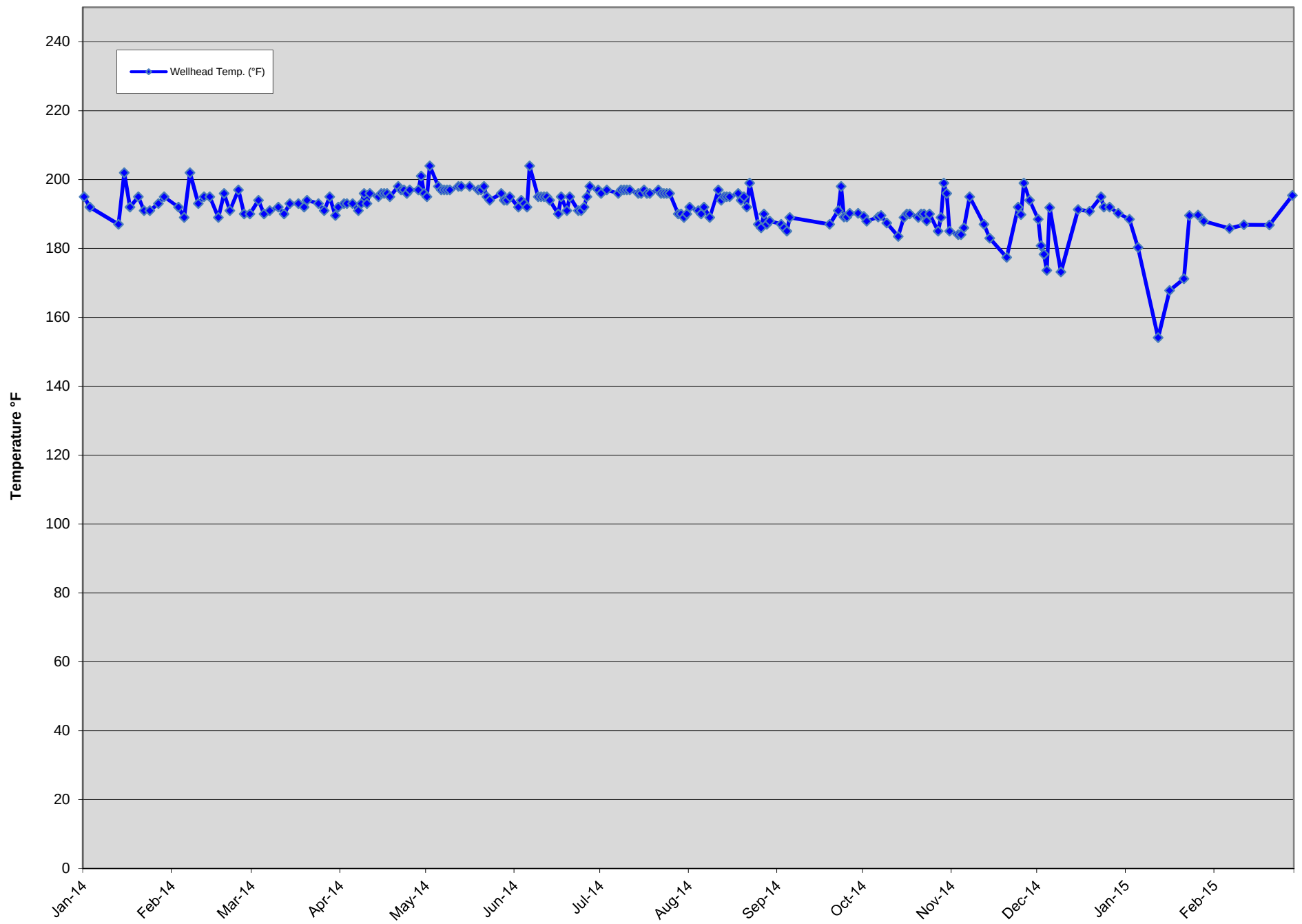
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**ATTACHMENT C**

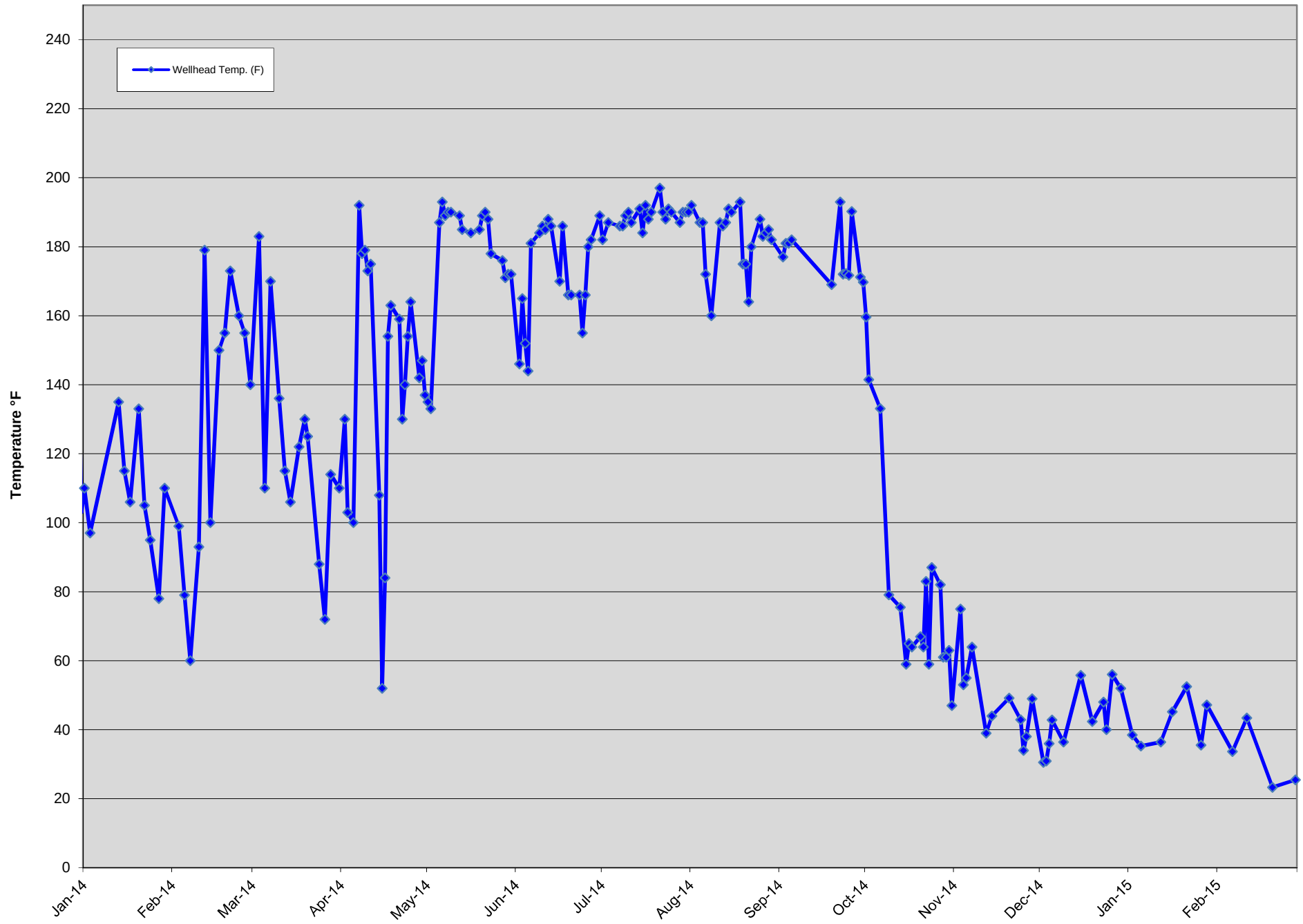
**GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS**

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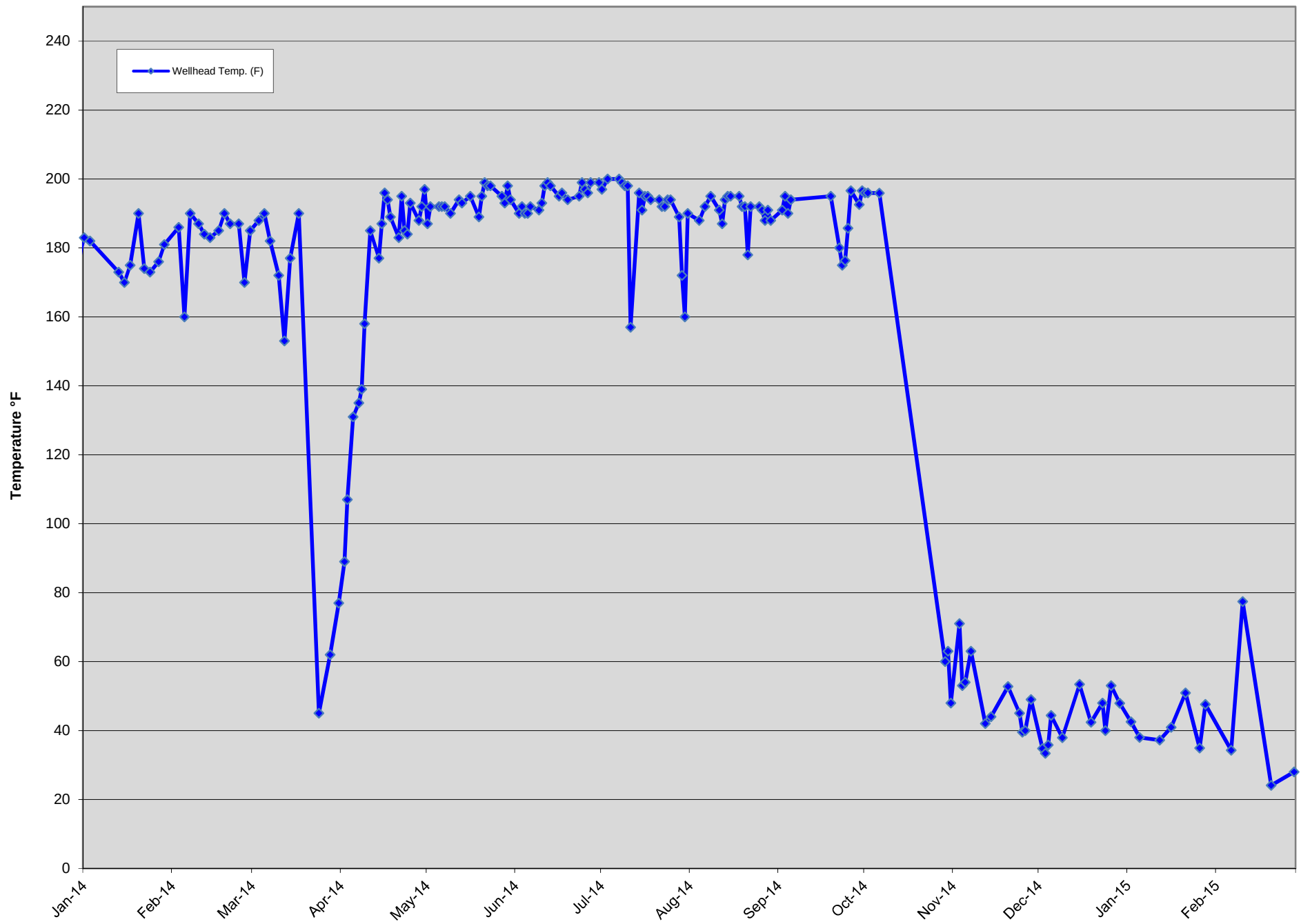
## GIW-1 Wellhead Temperatures



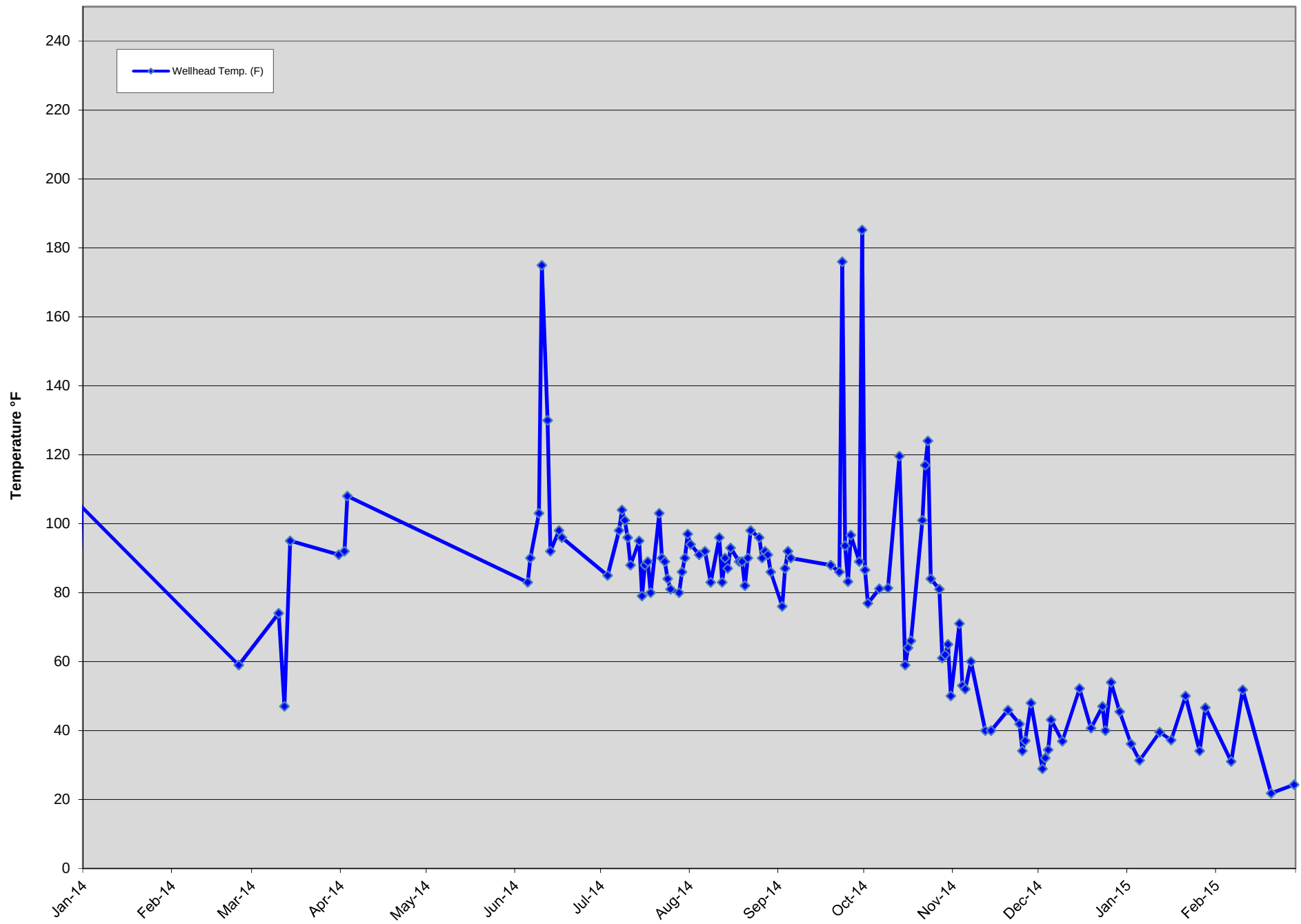
GIW-2 Wellhead Temperatures



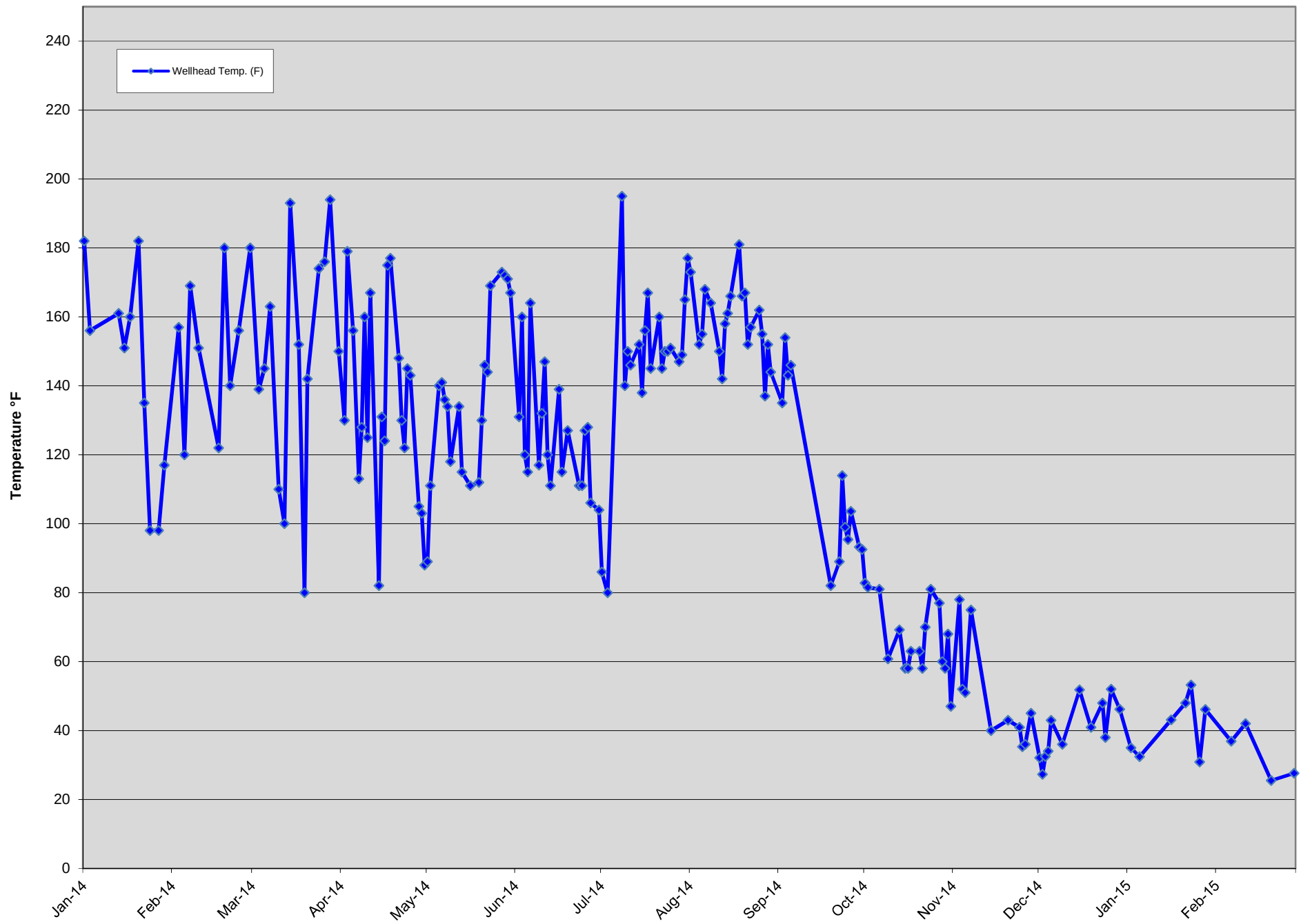
# GIW-3 Wellhead Temperatures



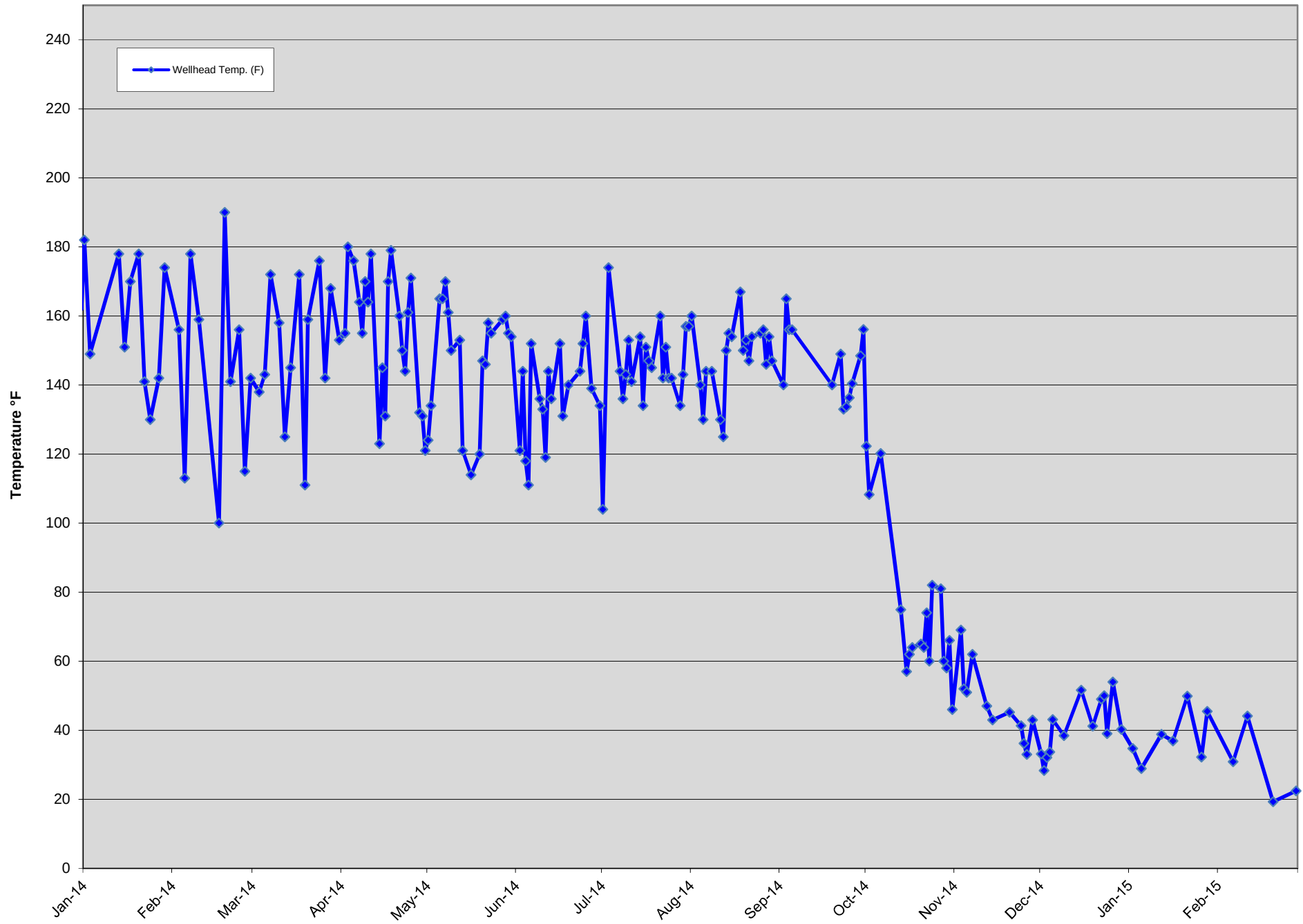
GIW-4 Wellhead Temperatures



GIW-5 Wellhead Temperatures

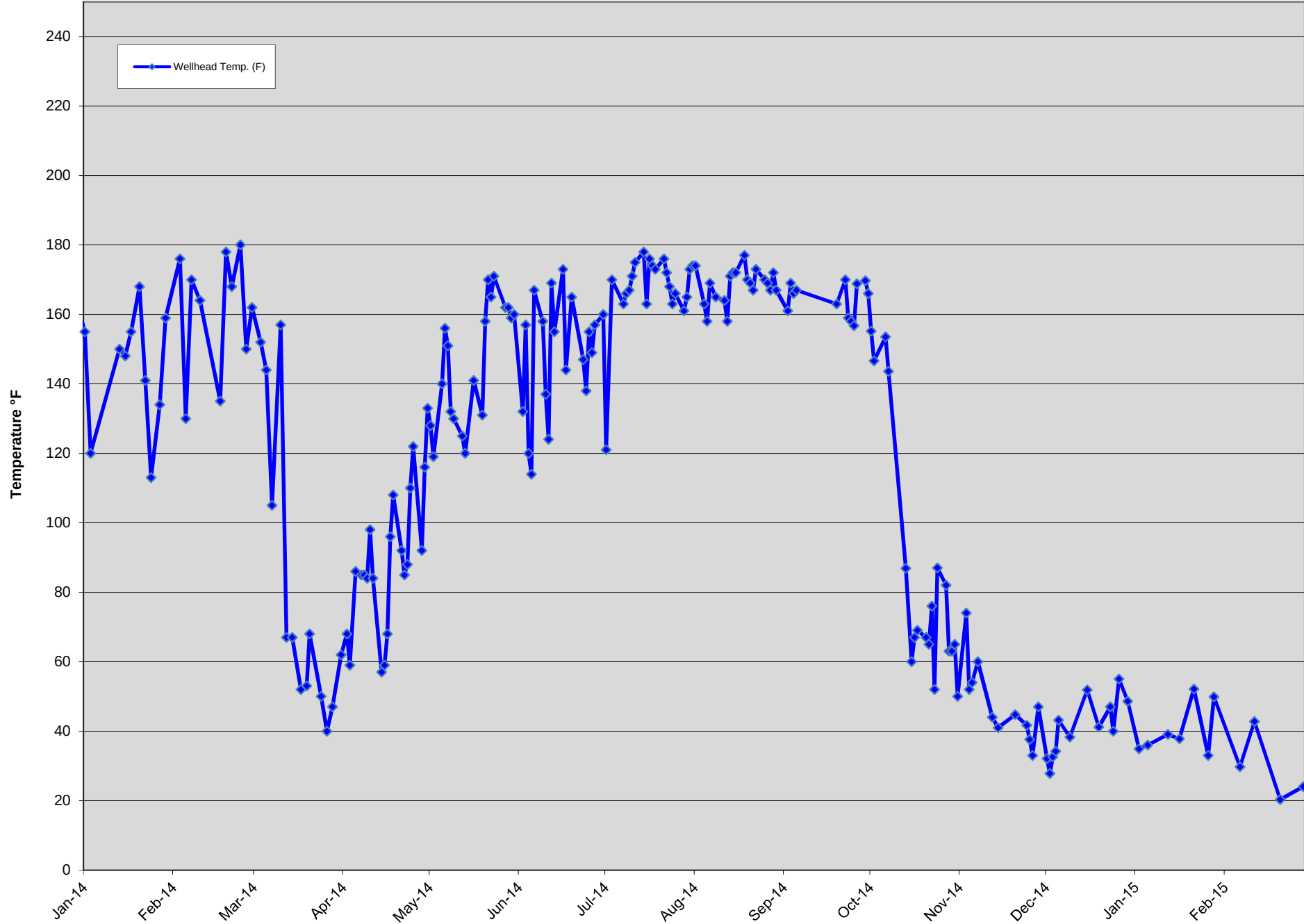


GIW-6 Wellhead Temperatures

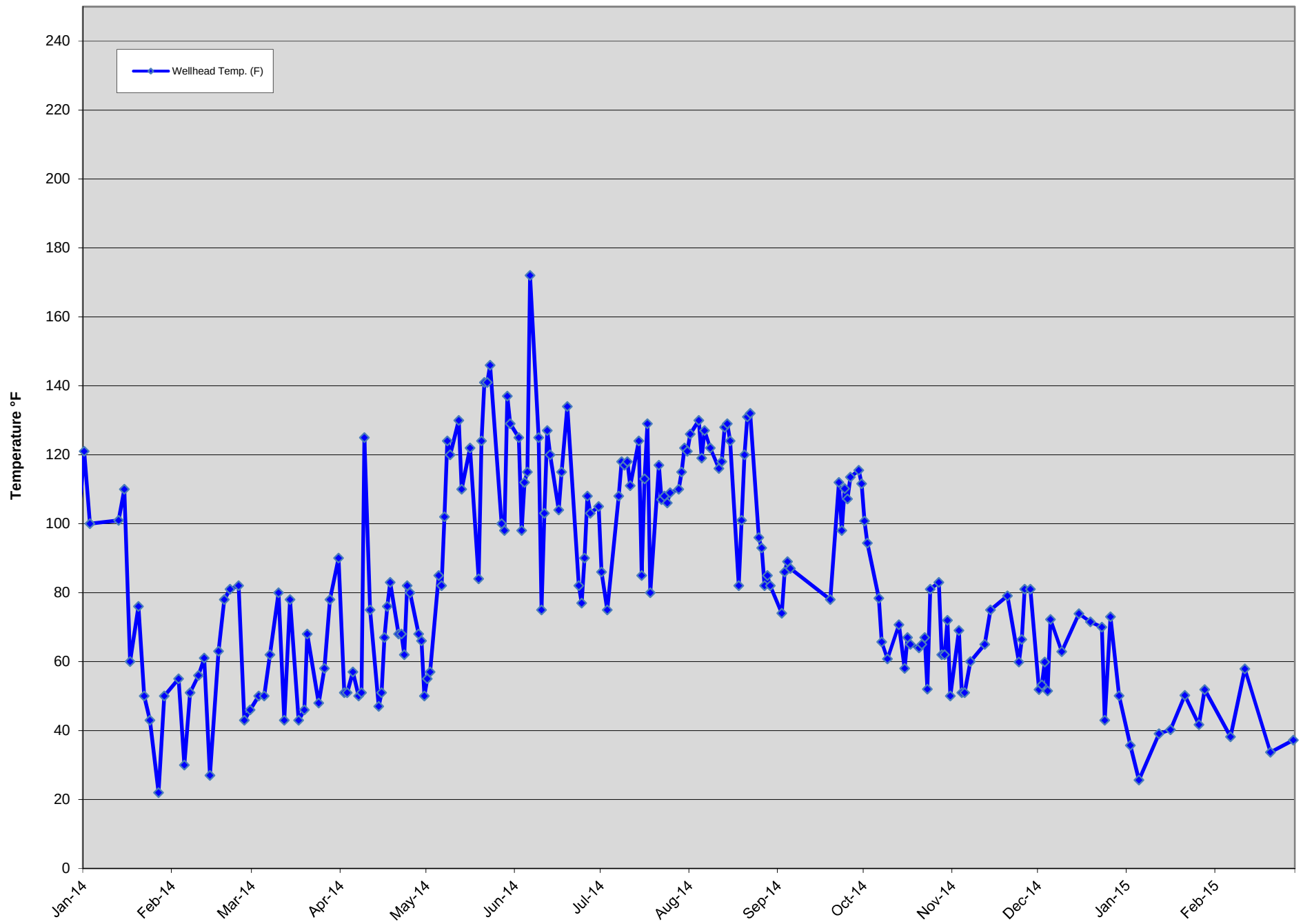




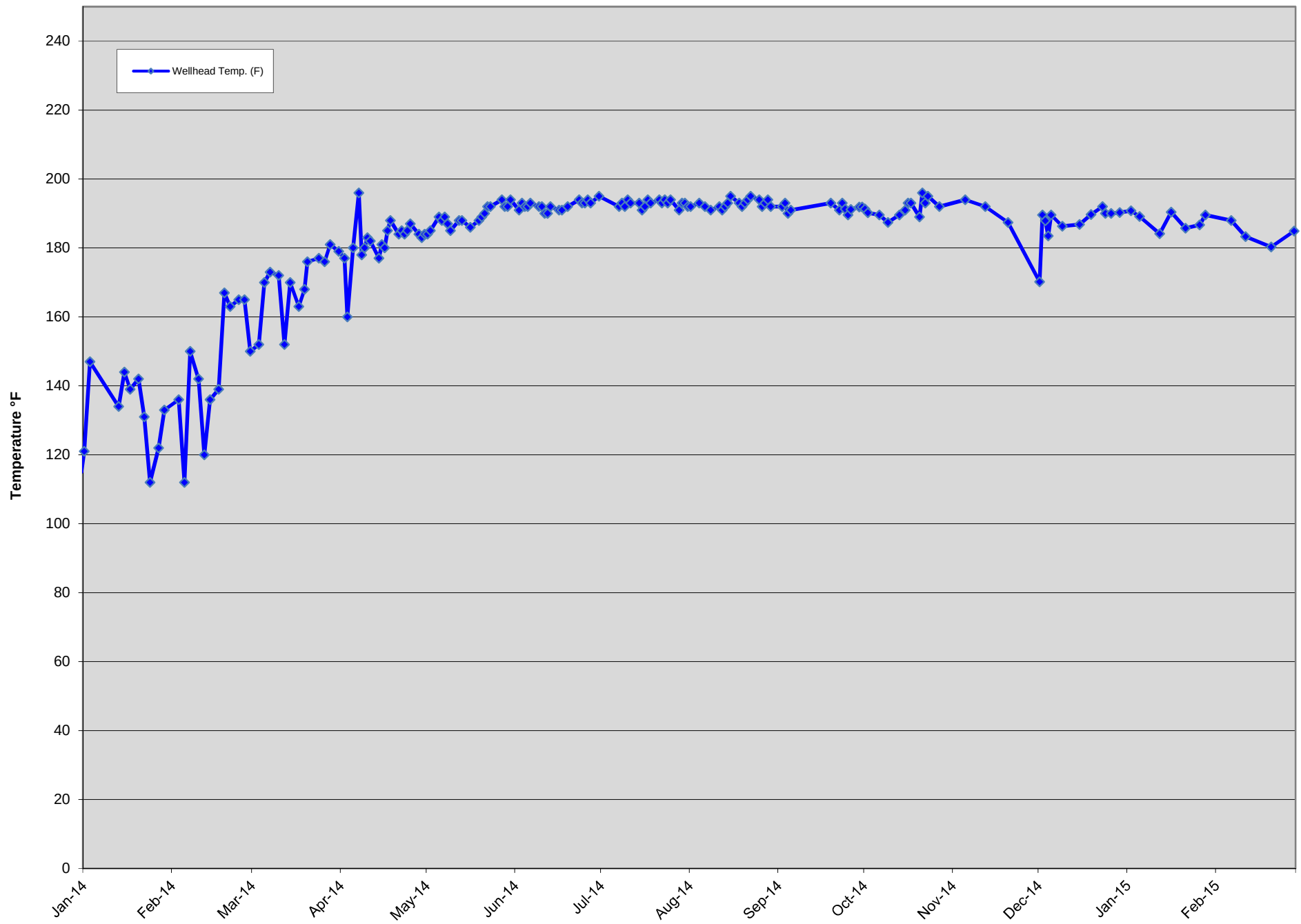
GIW-7 Wellhead Temperatures



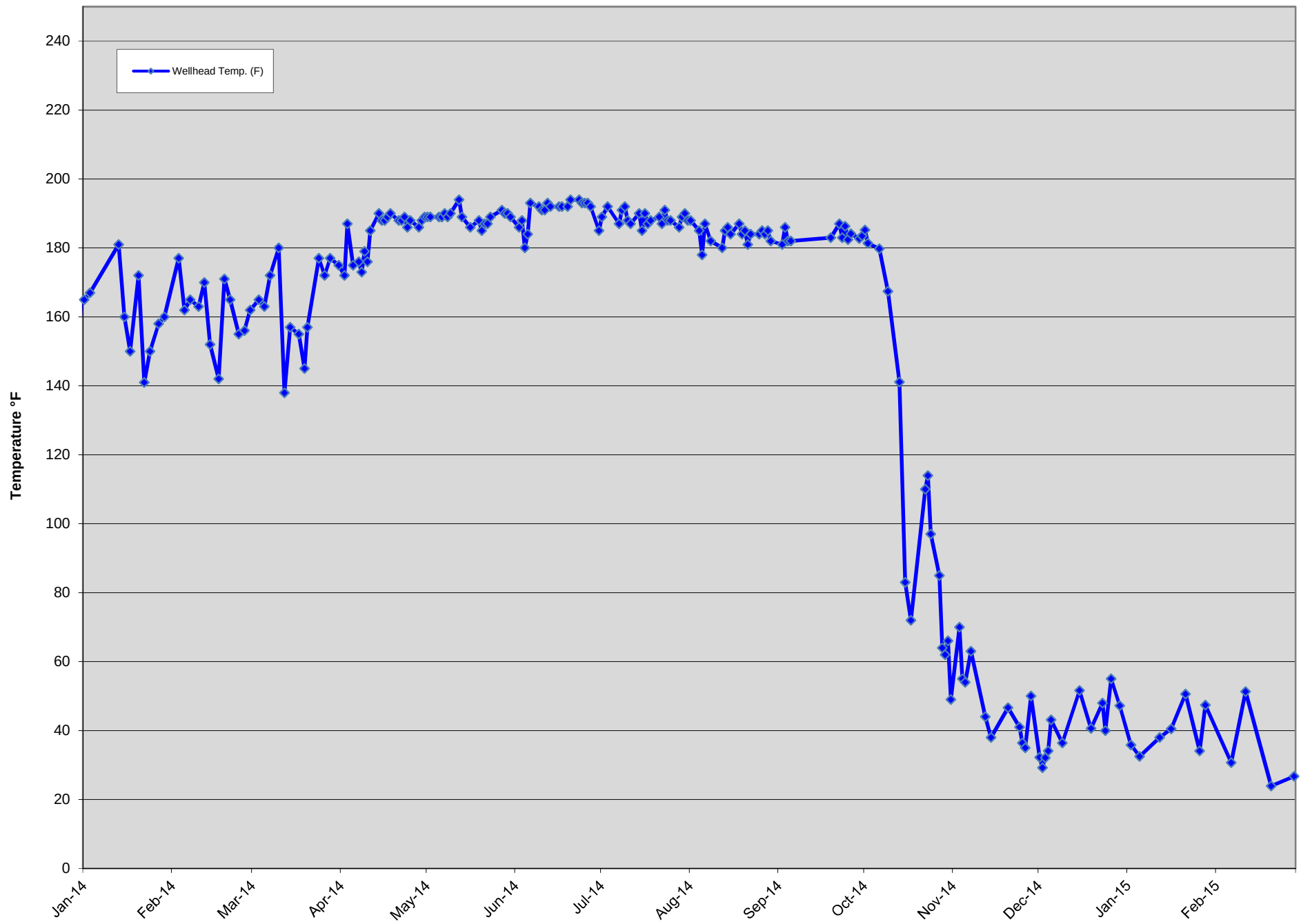
## GIW-8 Wellhead Temperatures



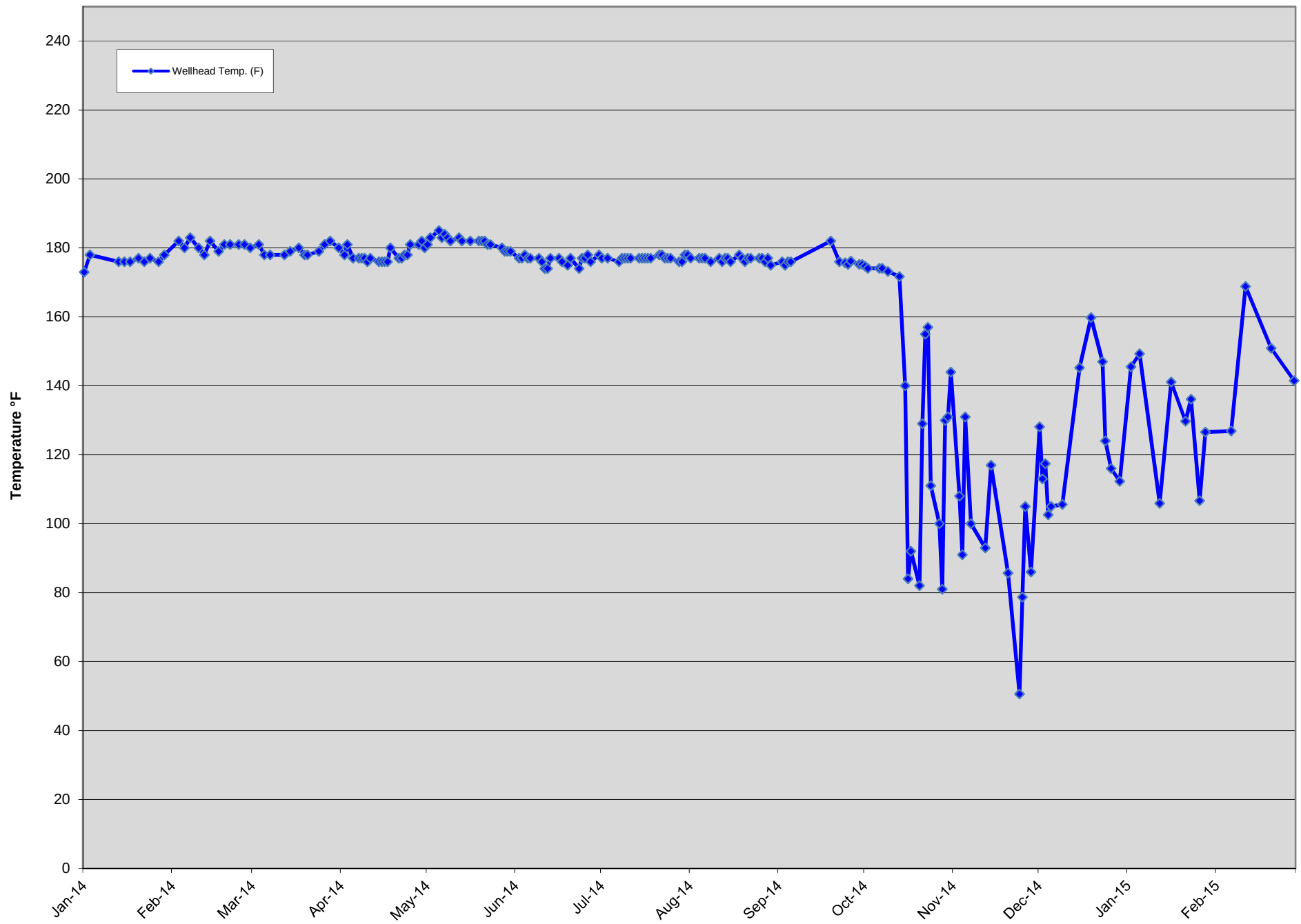
# GIW-9 Wellhead Temperatures



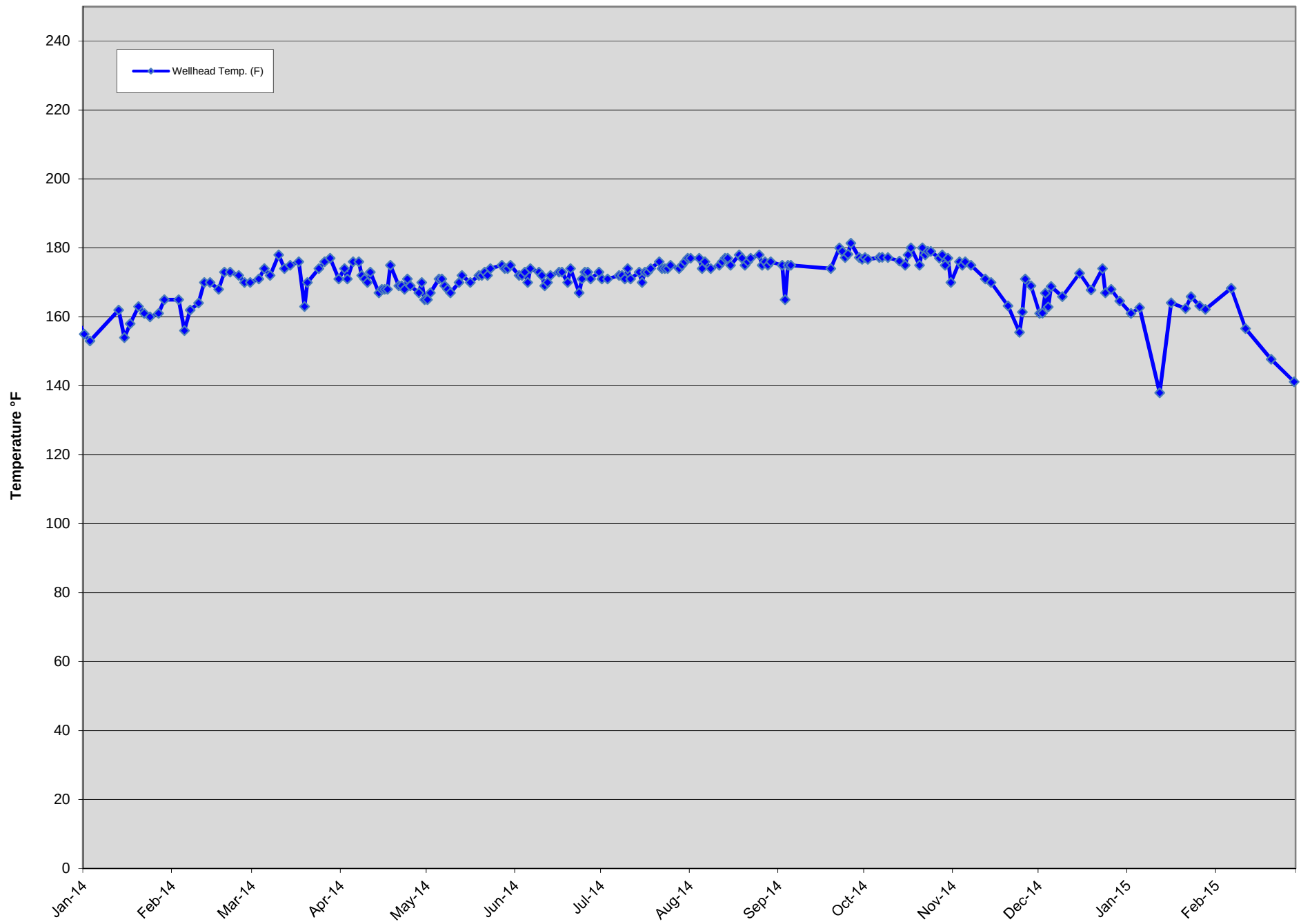
GIW-10 Wellhead Temperatures



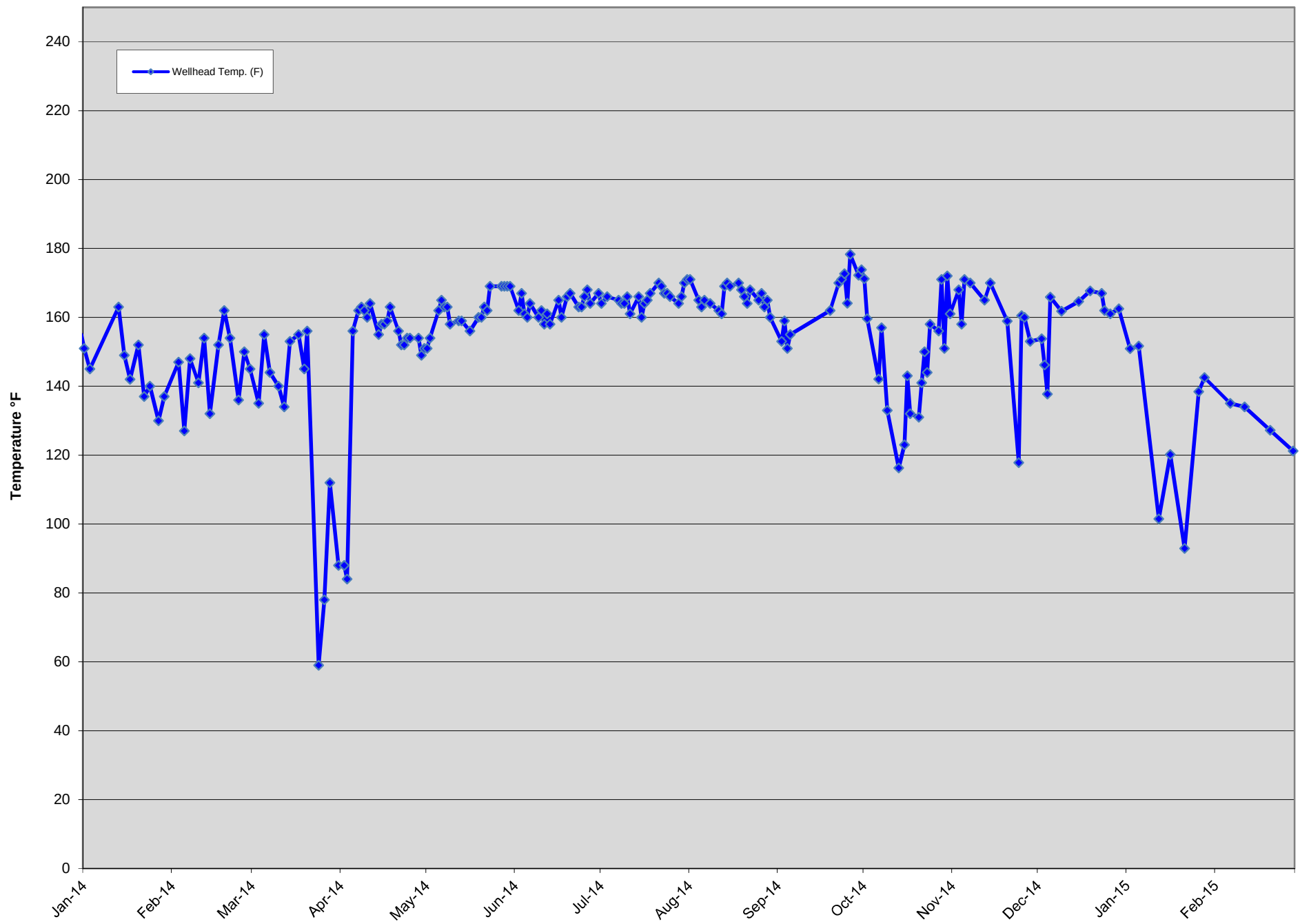
# GIW-11 Wellhead Temperatures



GIW-12 Wellhead Temperatures



GIW-13 Wellhead Temperatures



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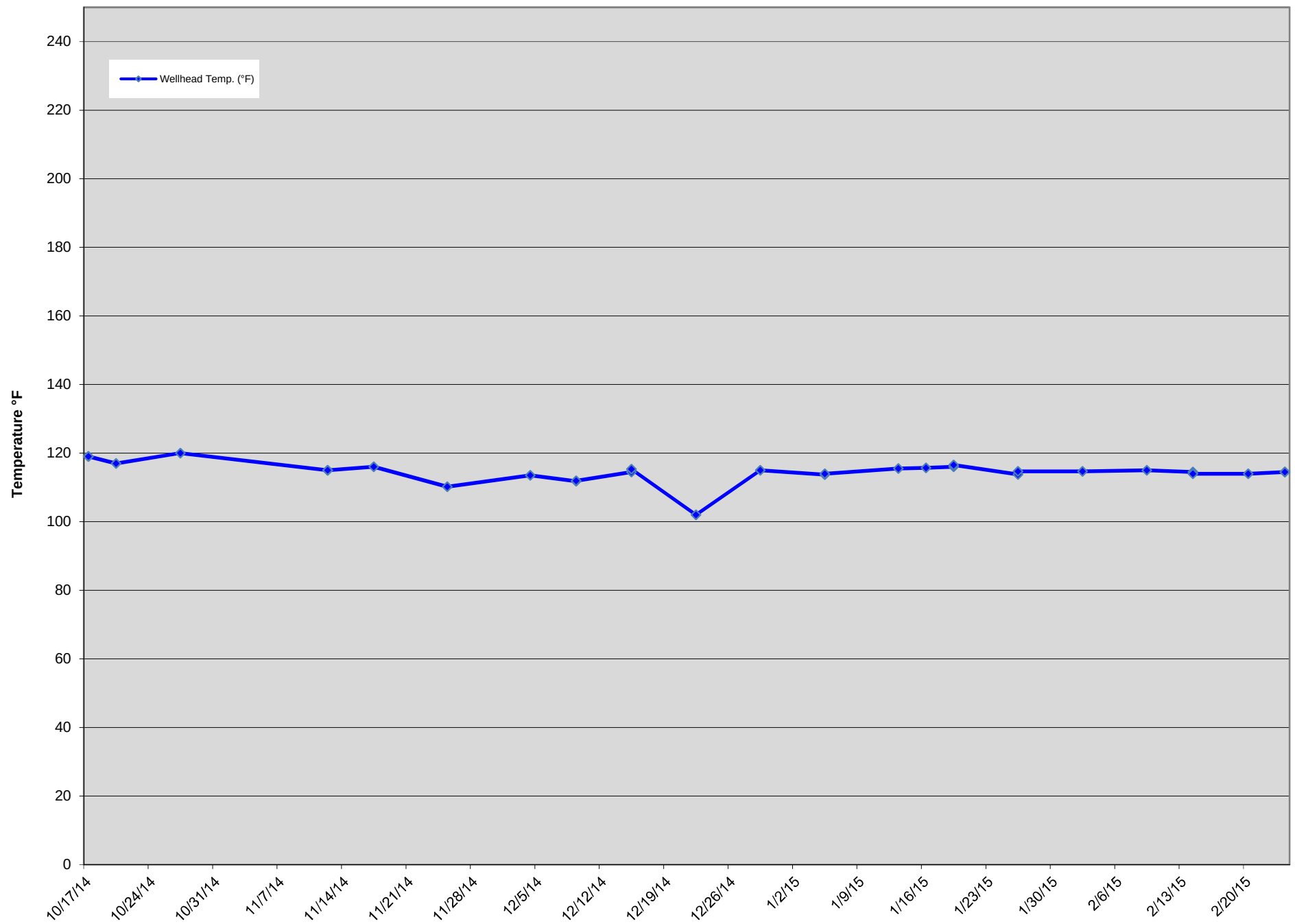
**ATTACHMENT D**

**NECK-AREA GAS EXTRACTION WELL DATA**

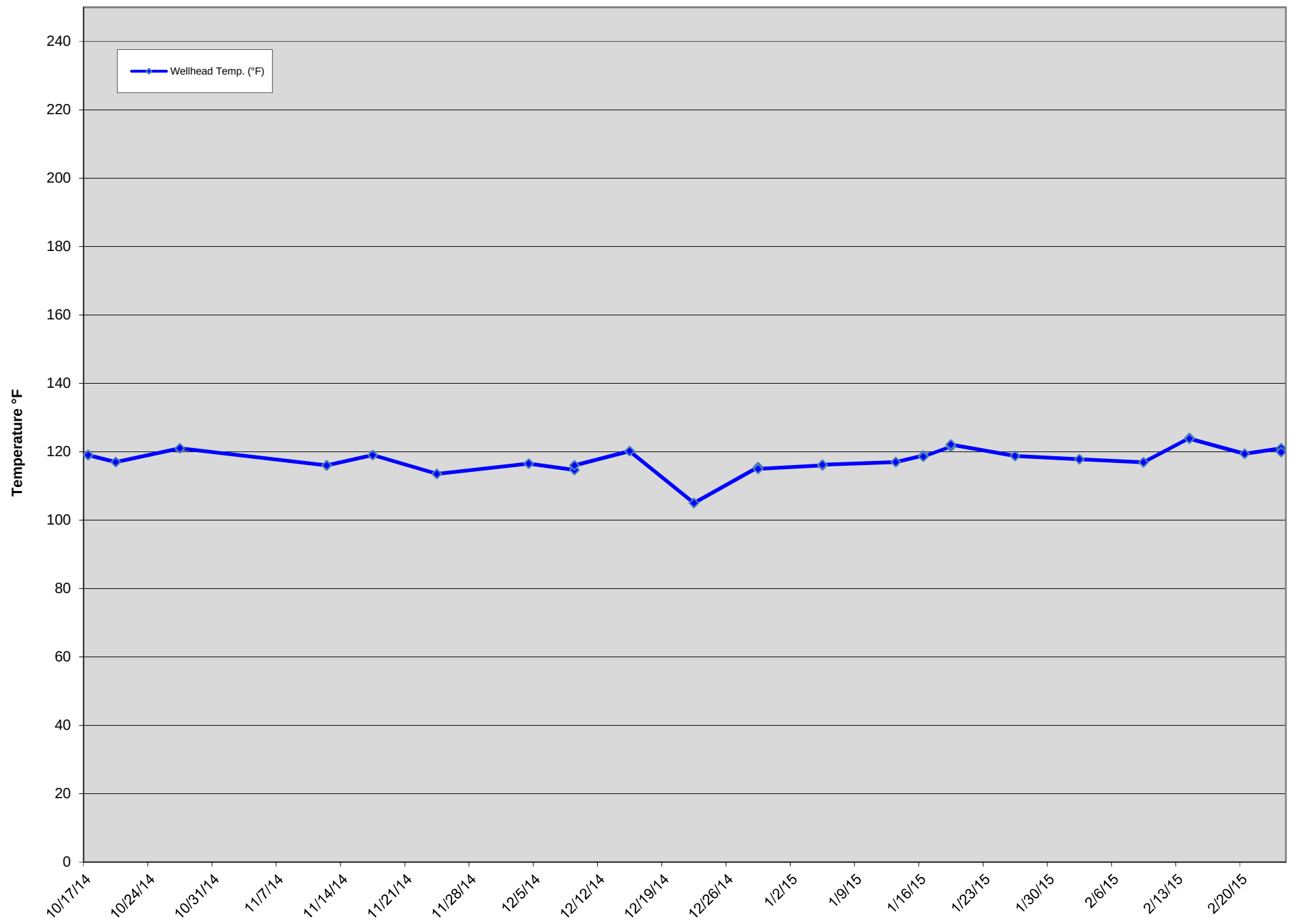
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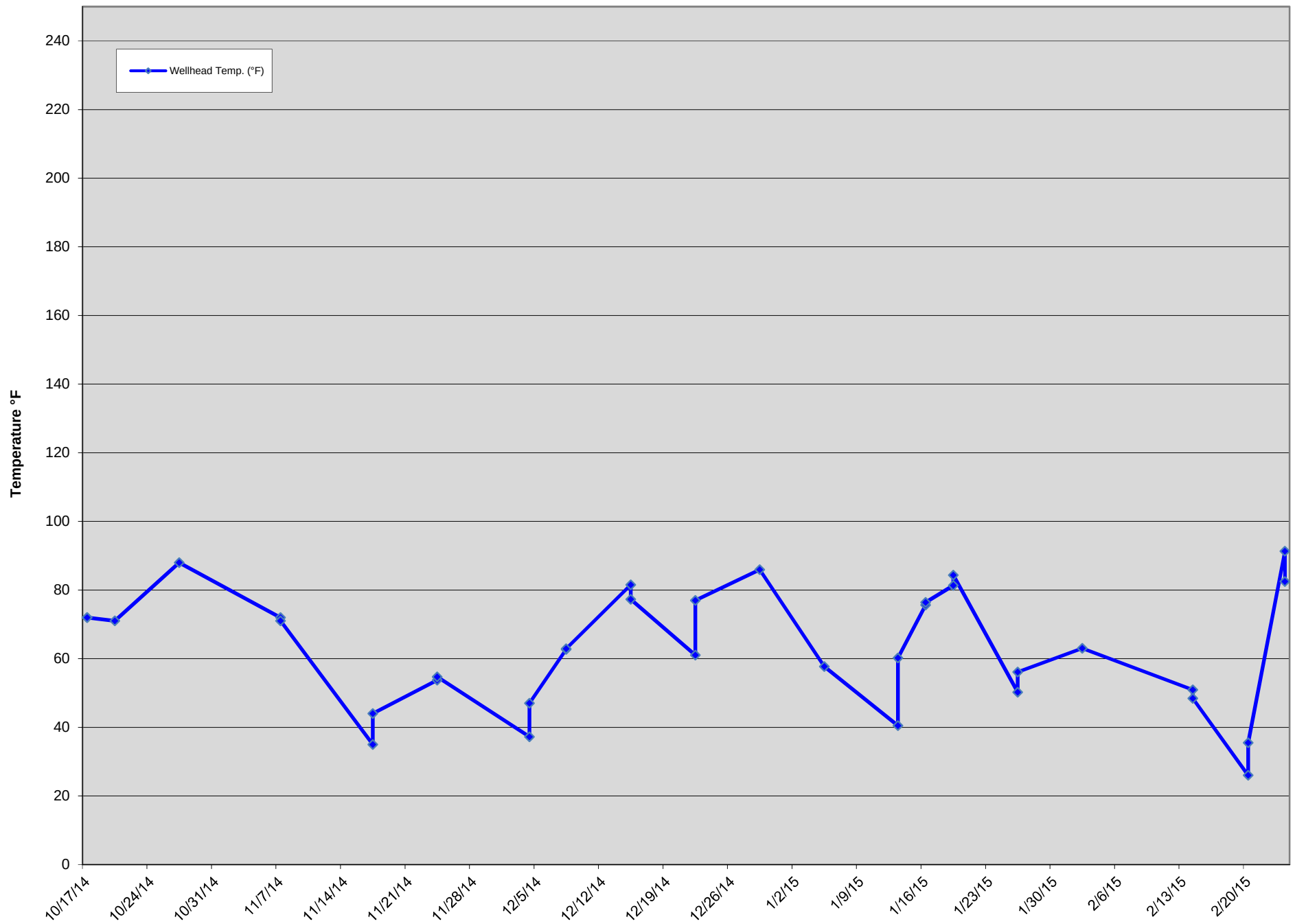
## GEW-008 Wellhead Temperatures



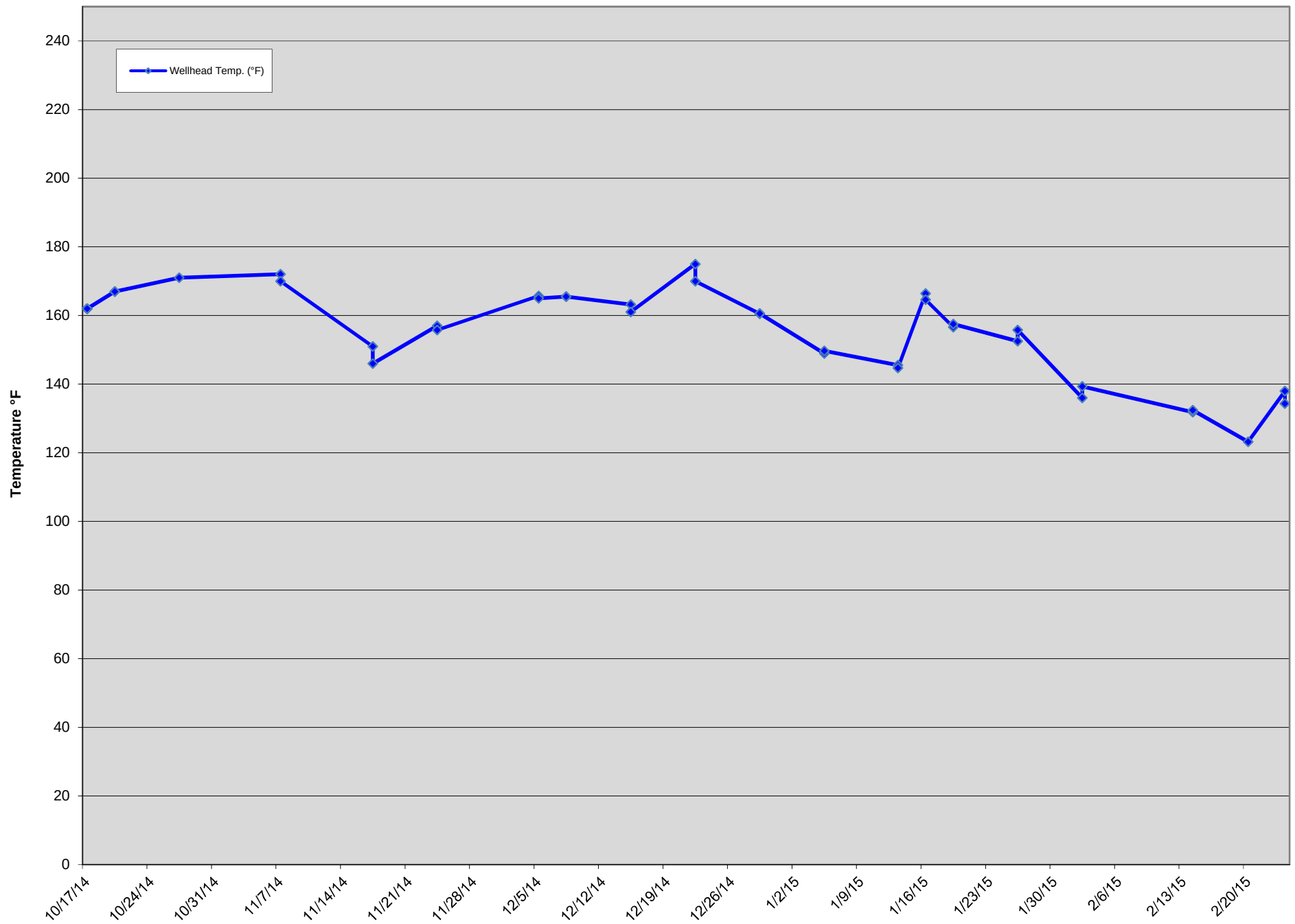
## GEW-009 Wellhead Temperatures



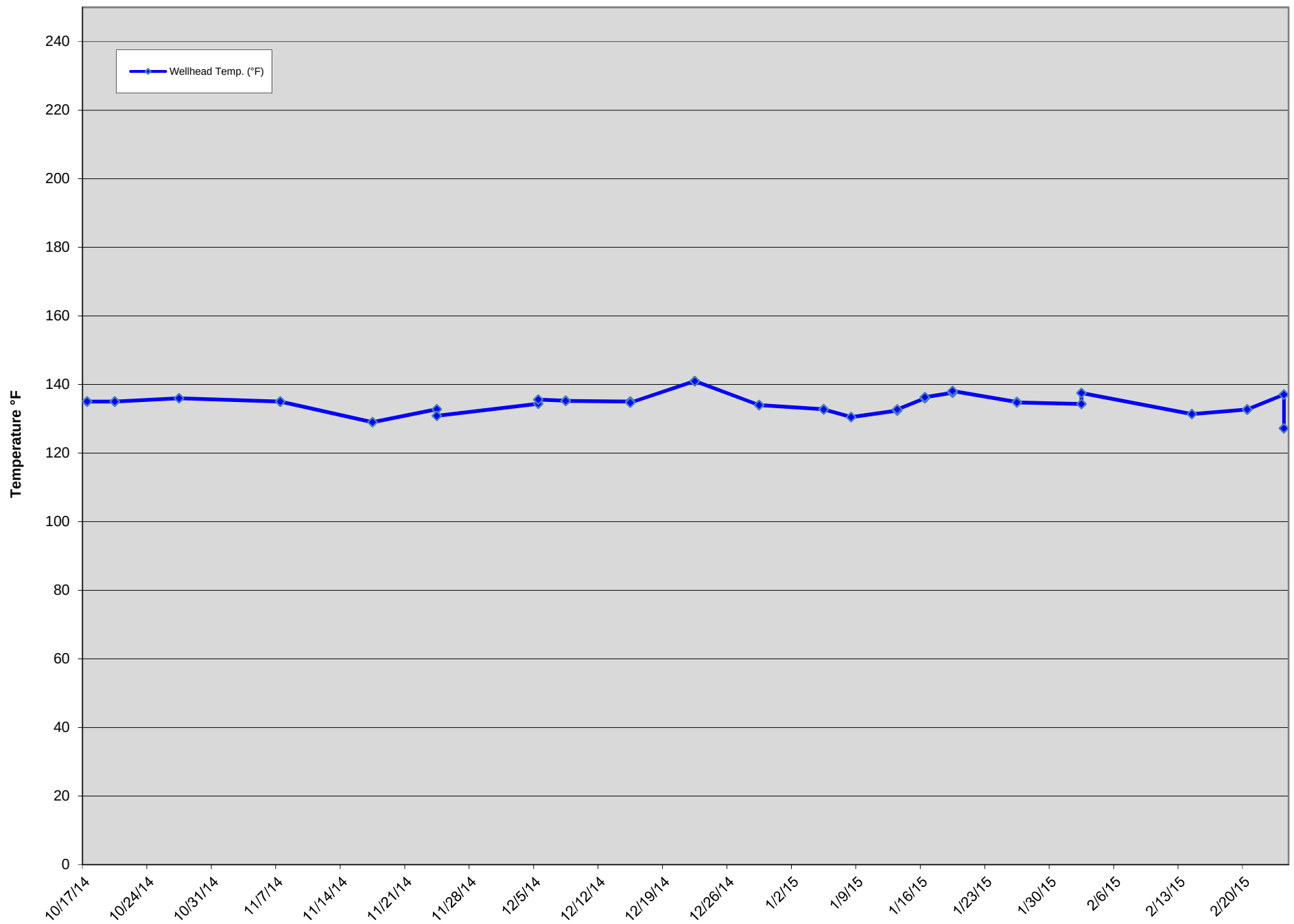
GEW-010 Wellhead Temperatures



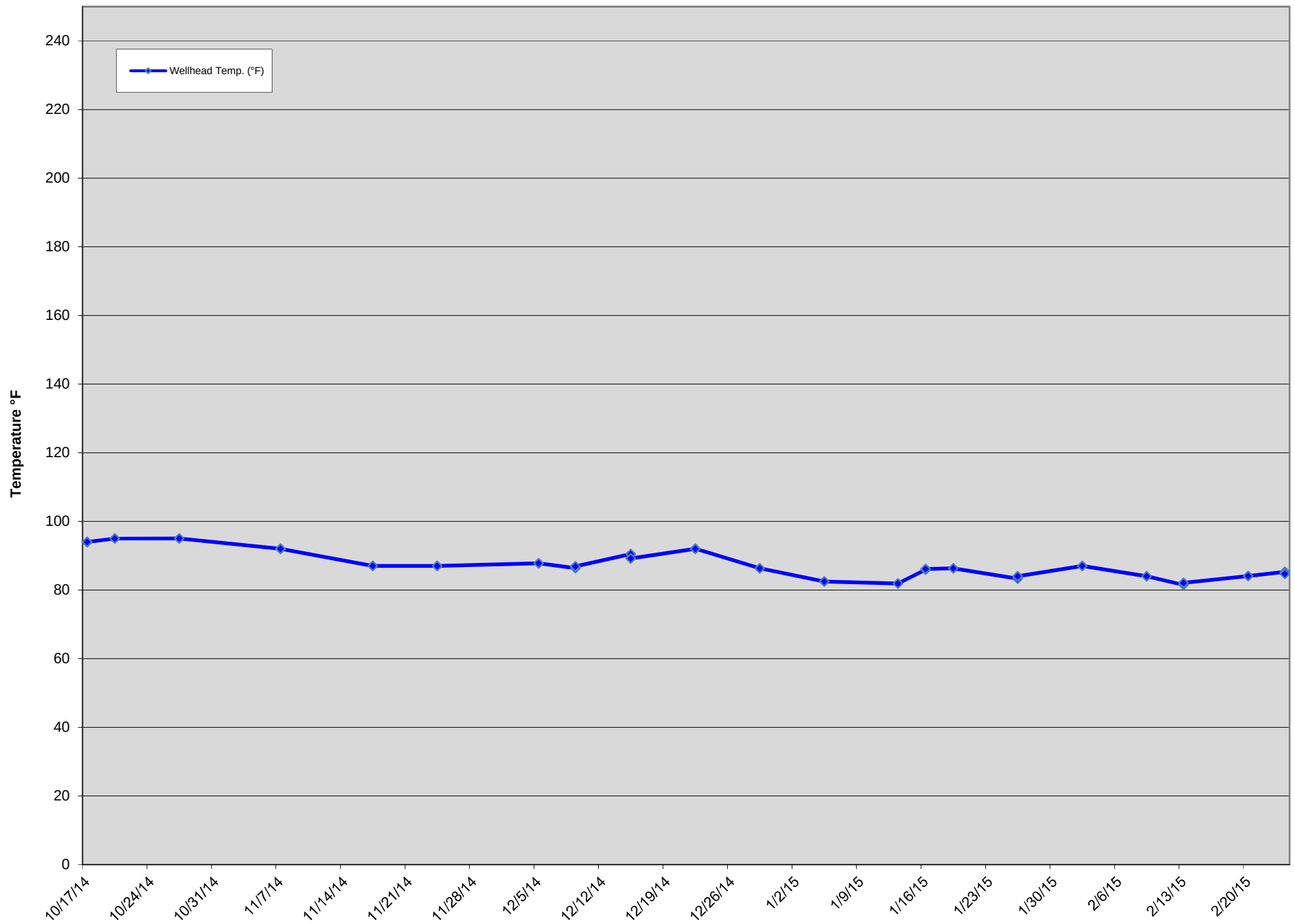
GEW-038 Wellhead Temperatures



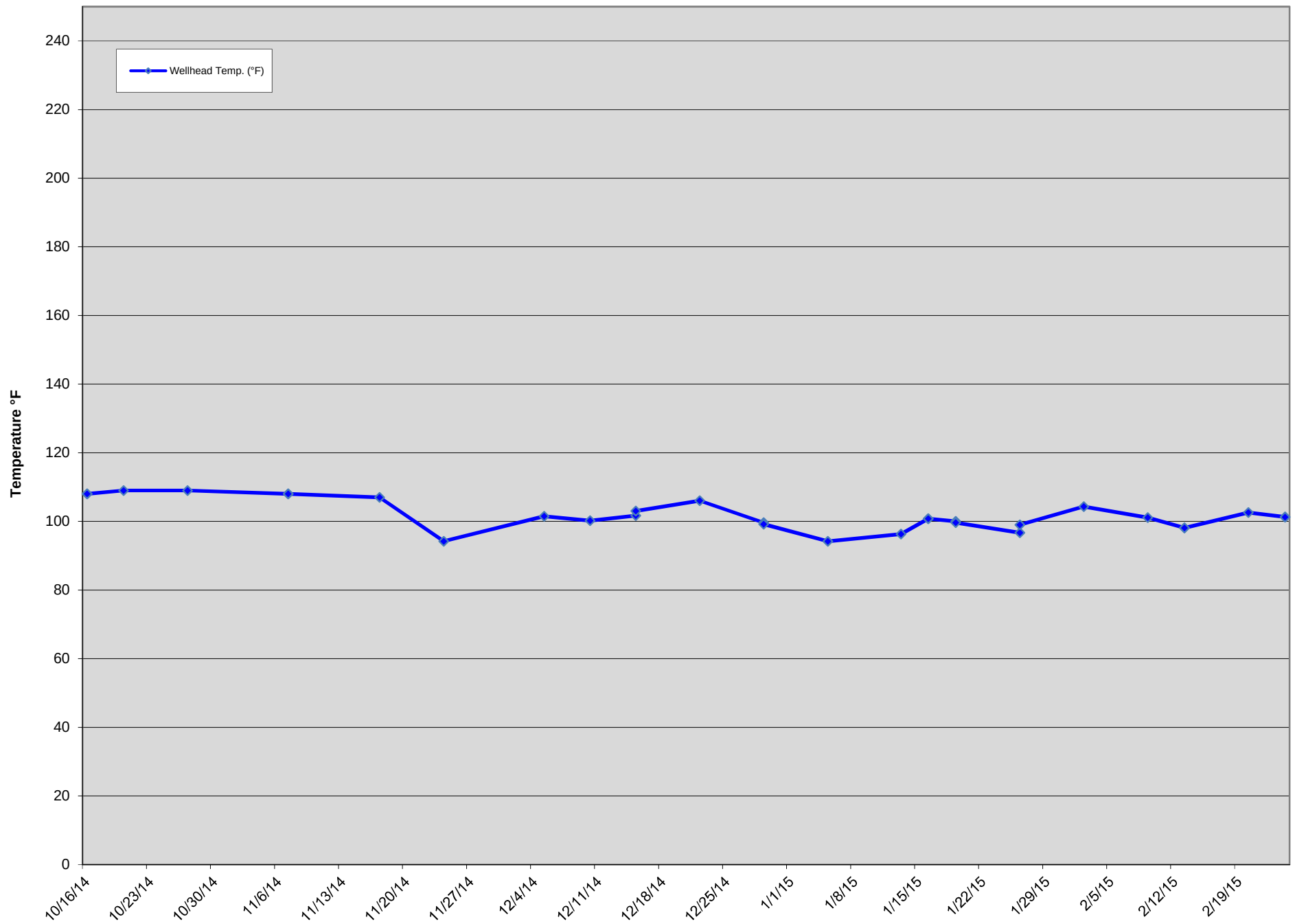
GEW-039 Wellhead Temperatures



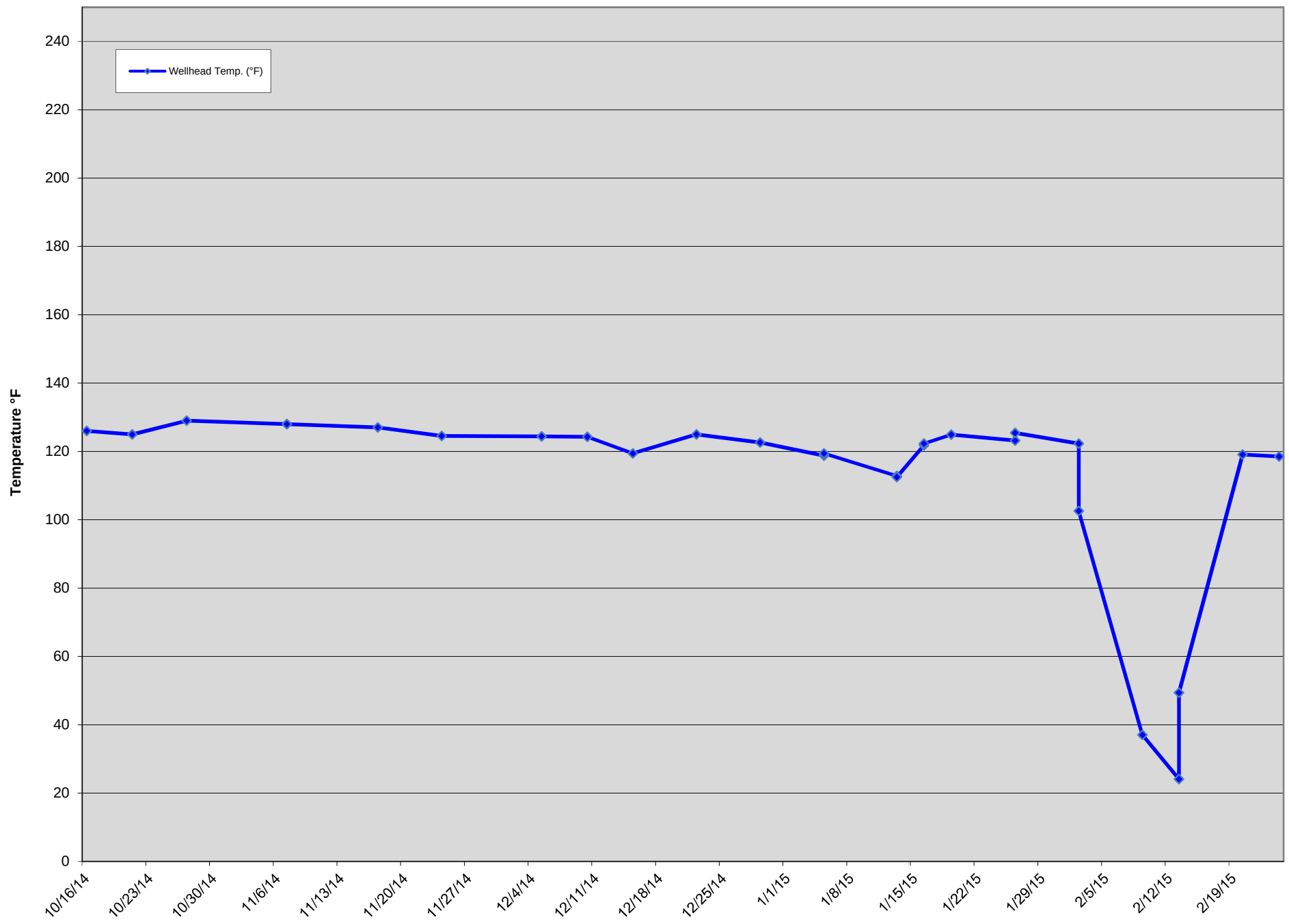
GEW-040 Wellhead Temperatures



GEW-041R Wellhead Temperatures

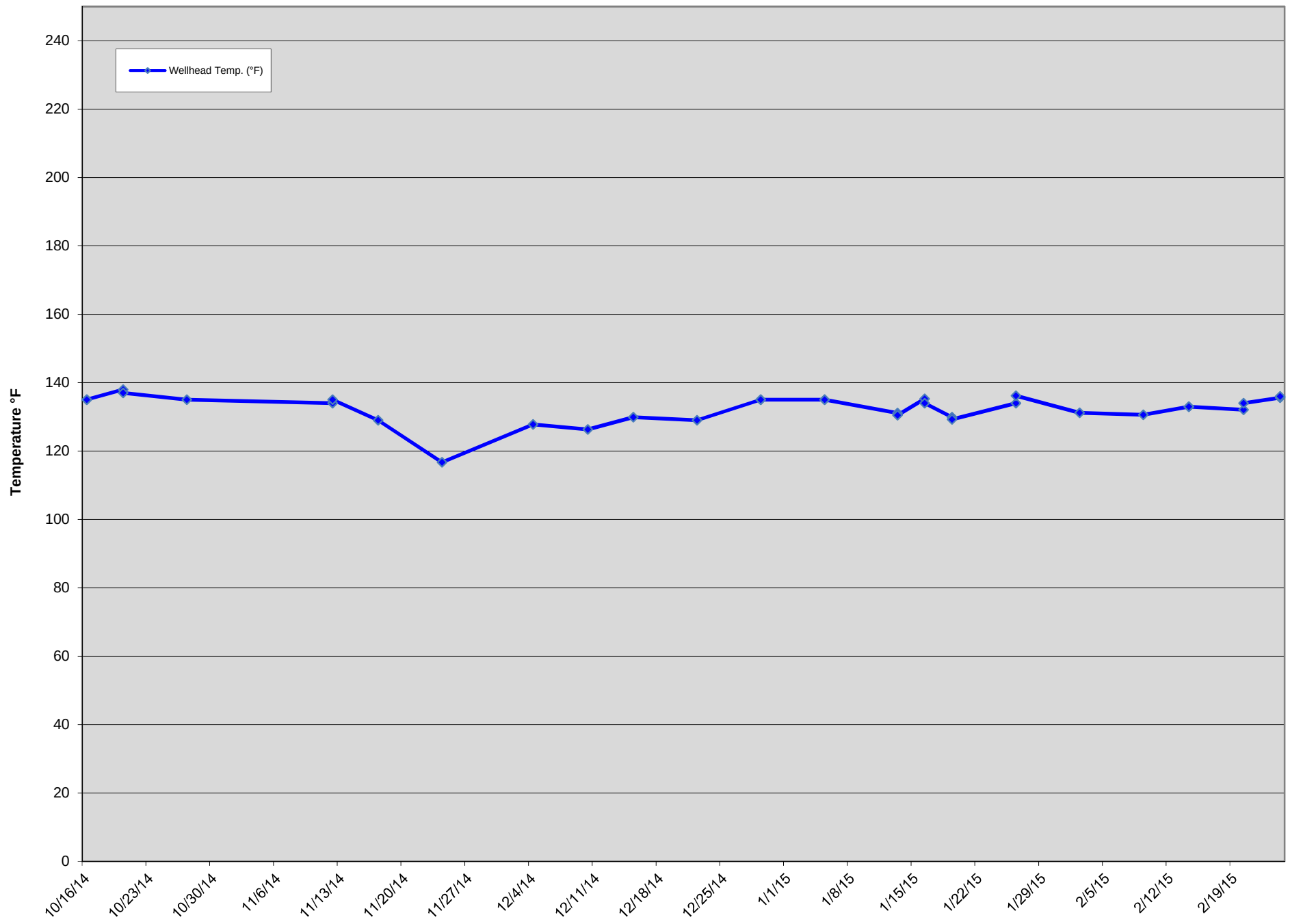


GEW-043R Wellhead Temperatures

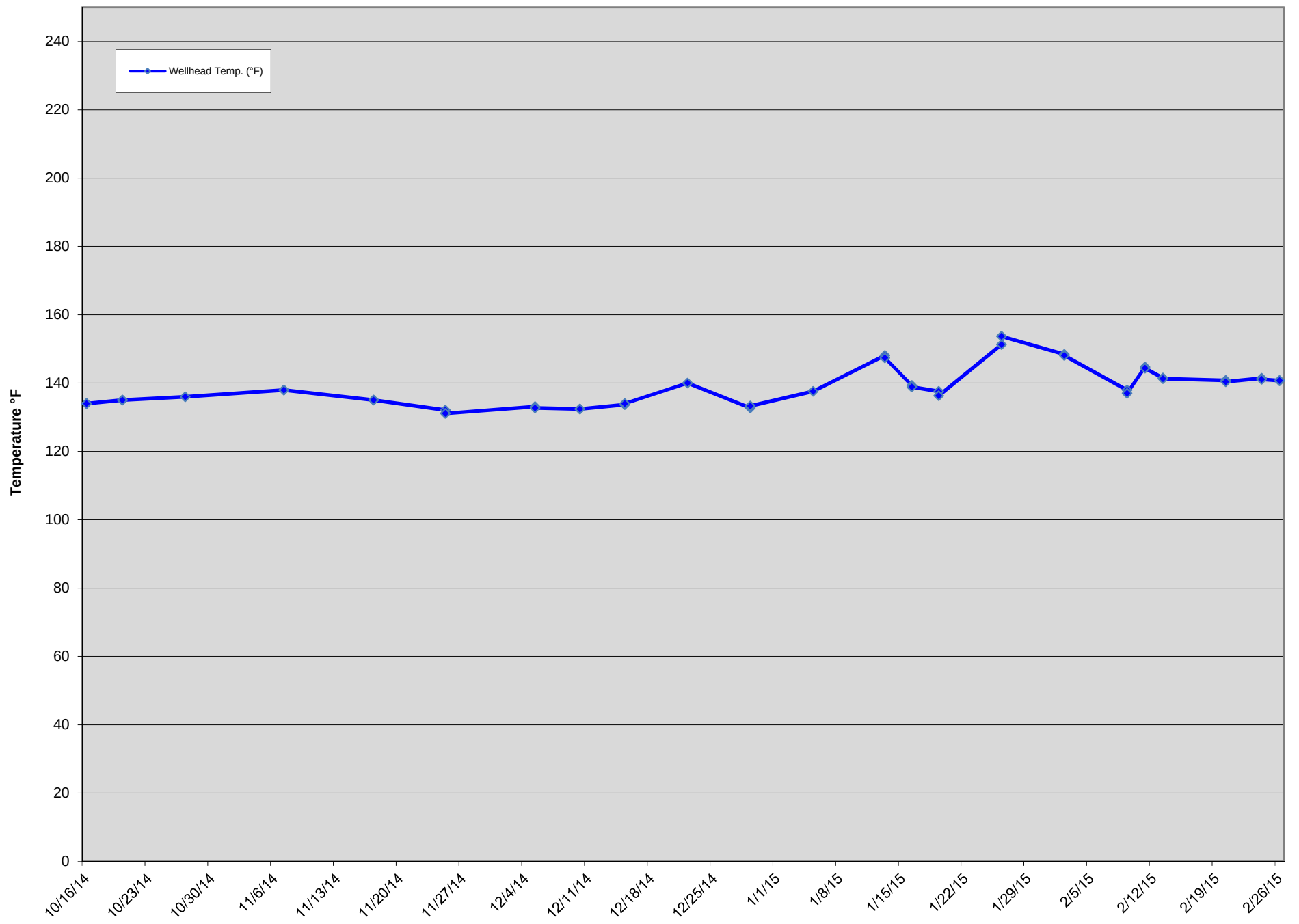




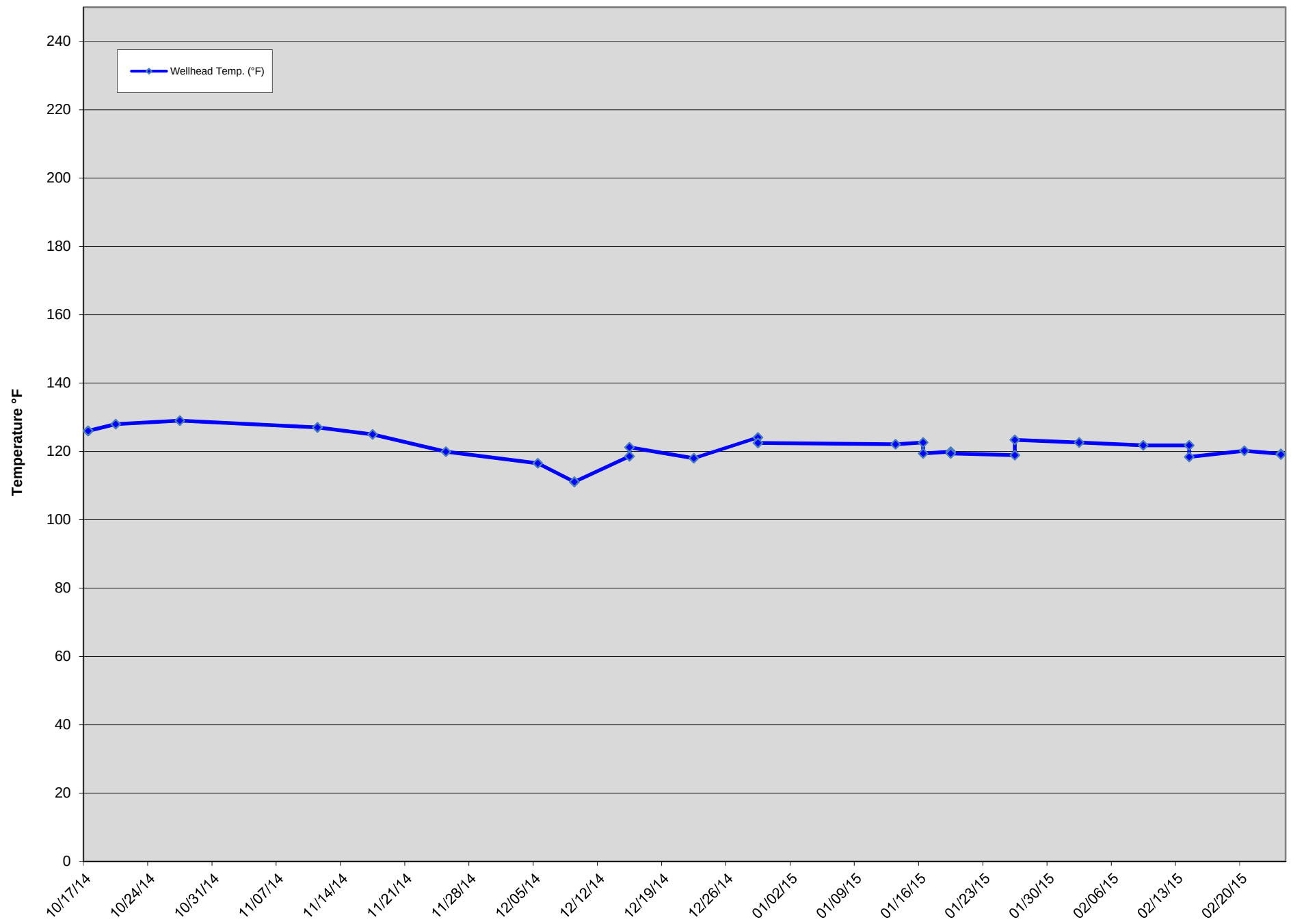
GEW-053 Wellhead Temperatures



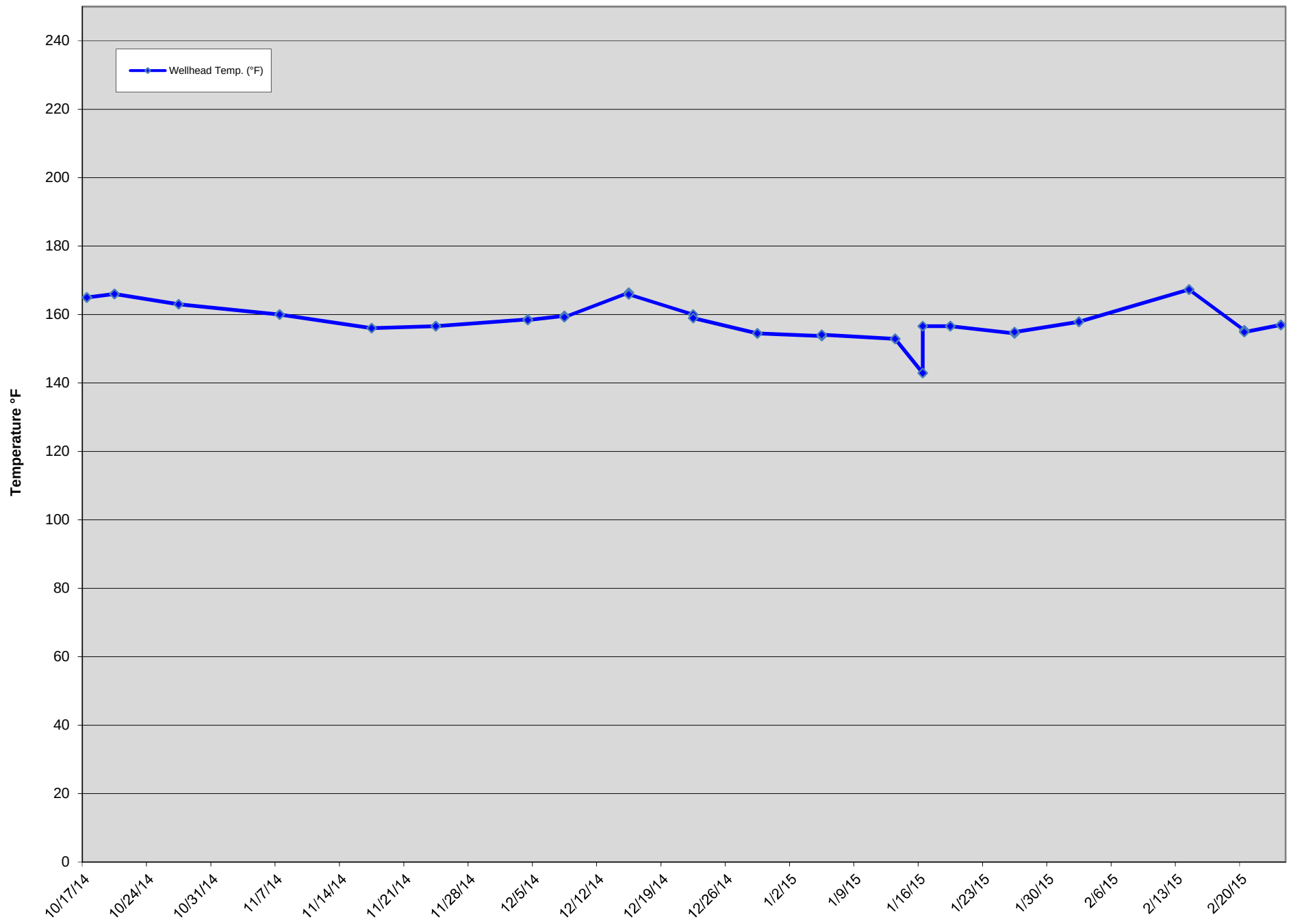
GEW-054 Wellhead Temperatures



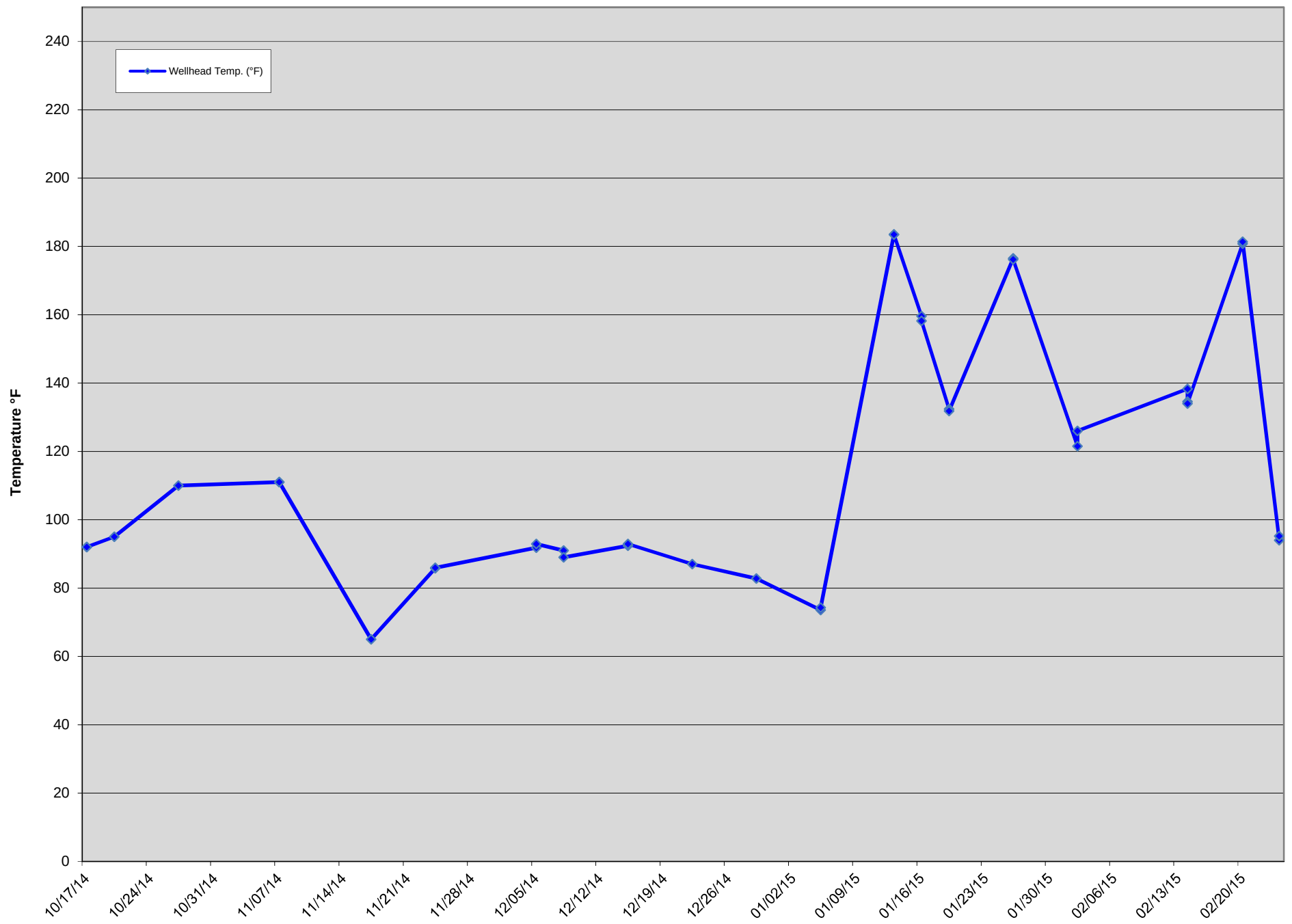
GEW-055 Wellhead Temperatures



## GEW-056R Wellhead Temperatures



GEW-109 Wellhead Temperatures



GEW-110 Wellhead Temperatures

