# Bridgeton Landfill, LLC

## Weekly Data Submittals

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

**Contents:**



**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**

**May 6, 2014**

# Commentary on Data

## Attachment A – Leachate Levels in Leachate Collection Sumps

LCS -1,-2,-3D -5, -6 were operational during the weekly reporting period.

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.

Measurement devices are currently being evaluated for use in LCS-3D and -1.

## Temperature Monitoring Probe Analytical Charts

The following TMPs indicated consistent or lower temperature profiles than previous week(s): TMP-1,-2,-3,-4,-5,-6,-8, -9, -10,-11 and -14.

TMP-12 measured a slight increase at shallow distances from the ground surface.

TMP-7 and -13 have been removed from the presentation based on resistivity outside of values deemed reliable.

## Gas Interceptor Wellhead Temperature Graphs

The fluctuation in wellhead gas temperatures can be attributed to variation in available vacuum, gas flow and ambient temperatures at the respective well.

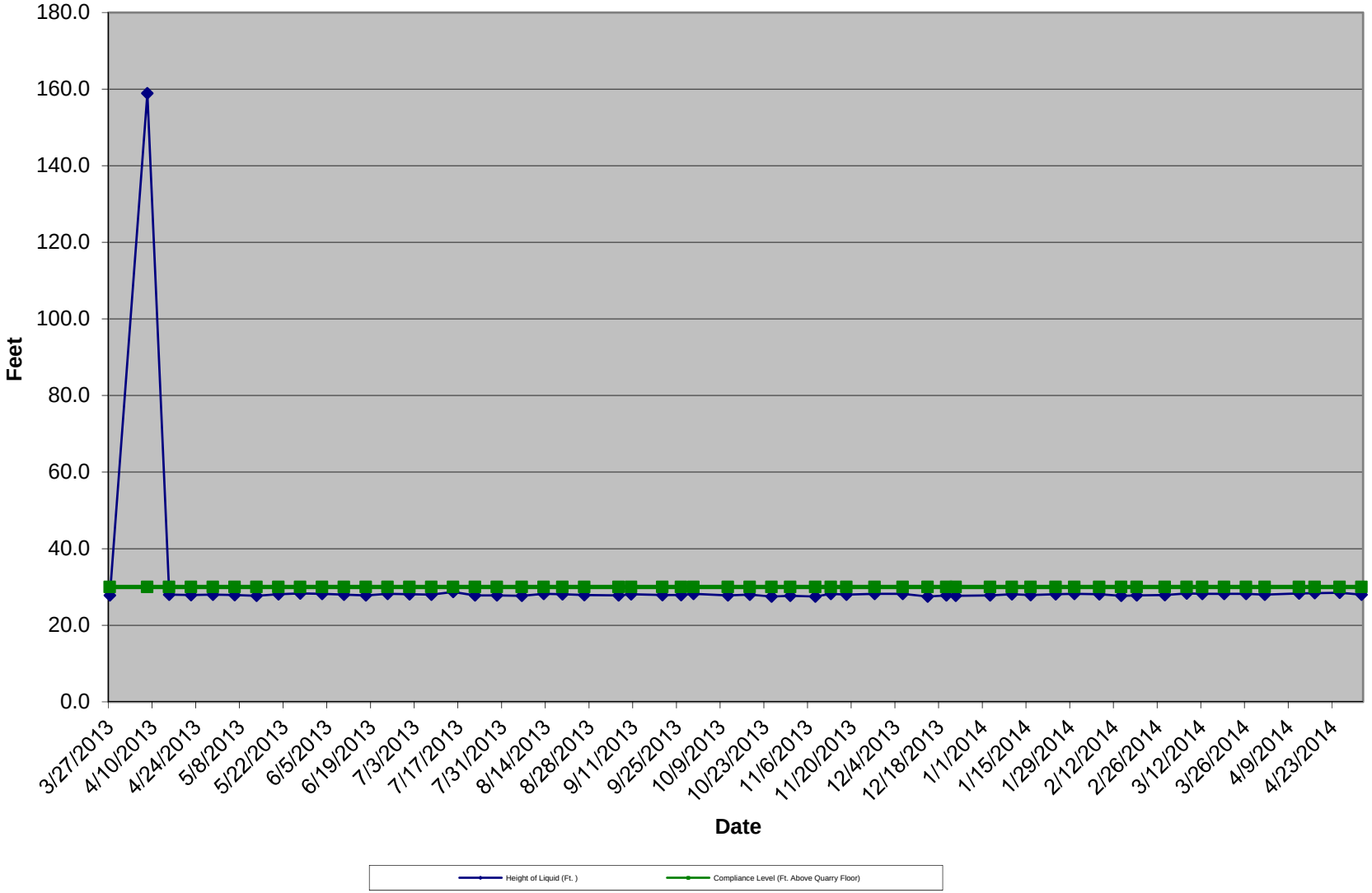
All gas interceptor wells remained relatively consistent or lower with regards to gas wellhead temperature measured at each location with the exception of GIW-1. GIW-1 showed a slightly increased wellhead temperature relative to previous weeks.

The water circulation cooling loop is currently installed in GIW-4. The cooling loop was operational during the reporting period.

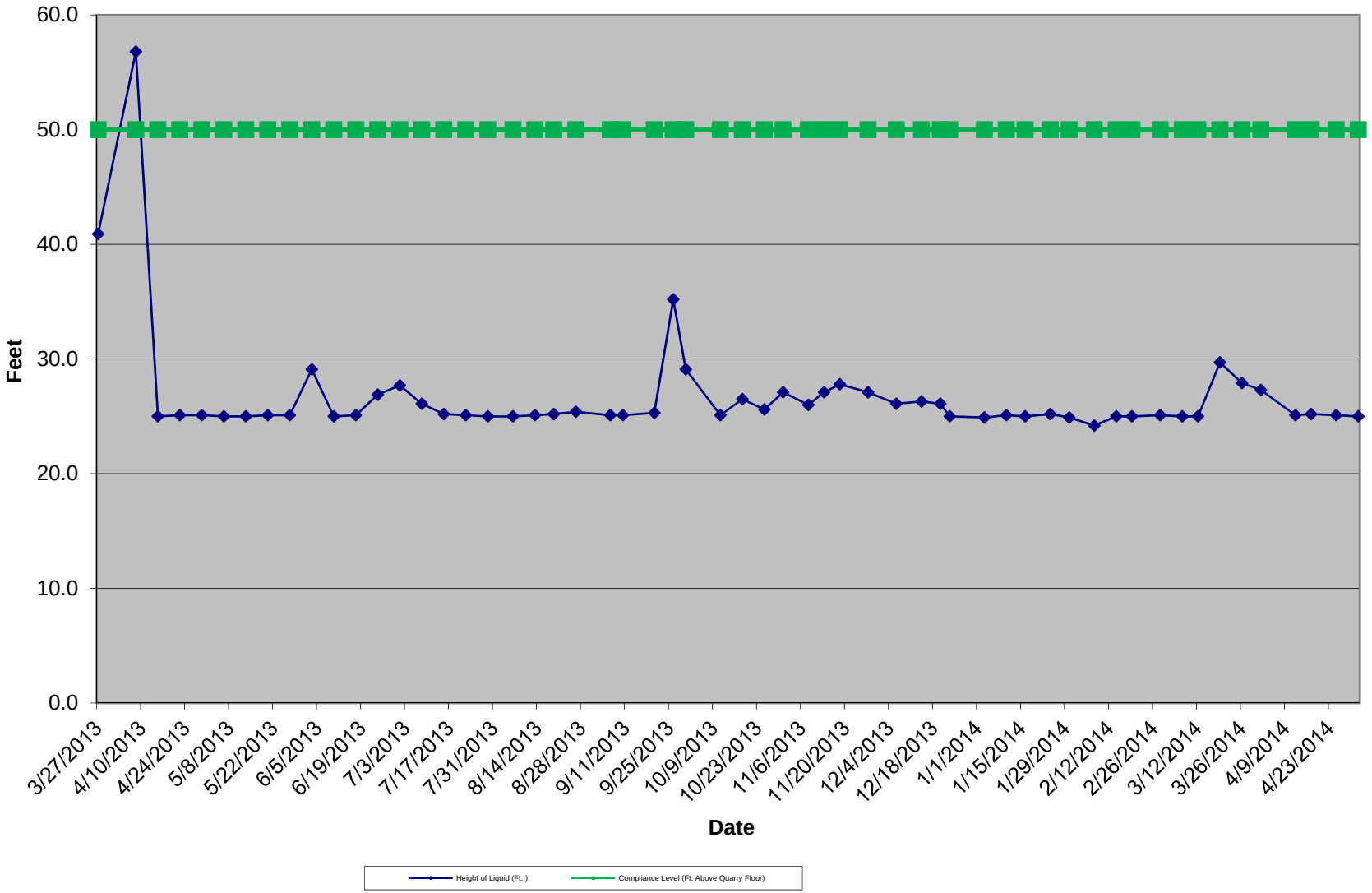
# ATTACHMENT A

# LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

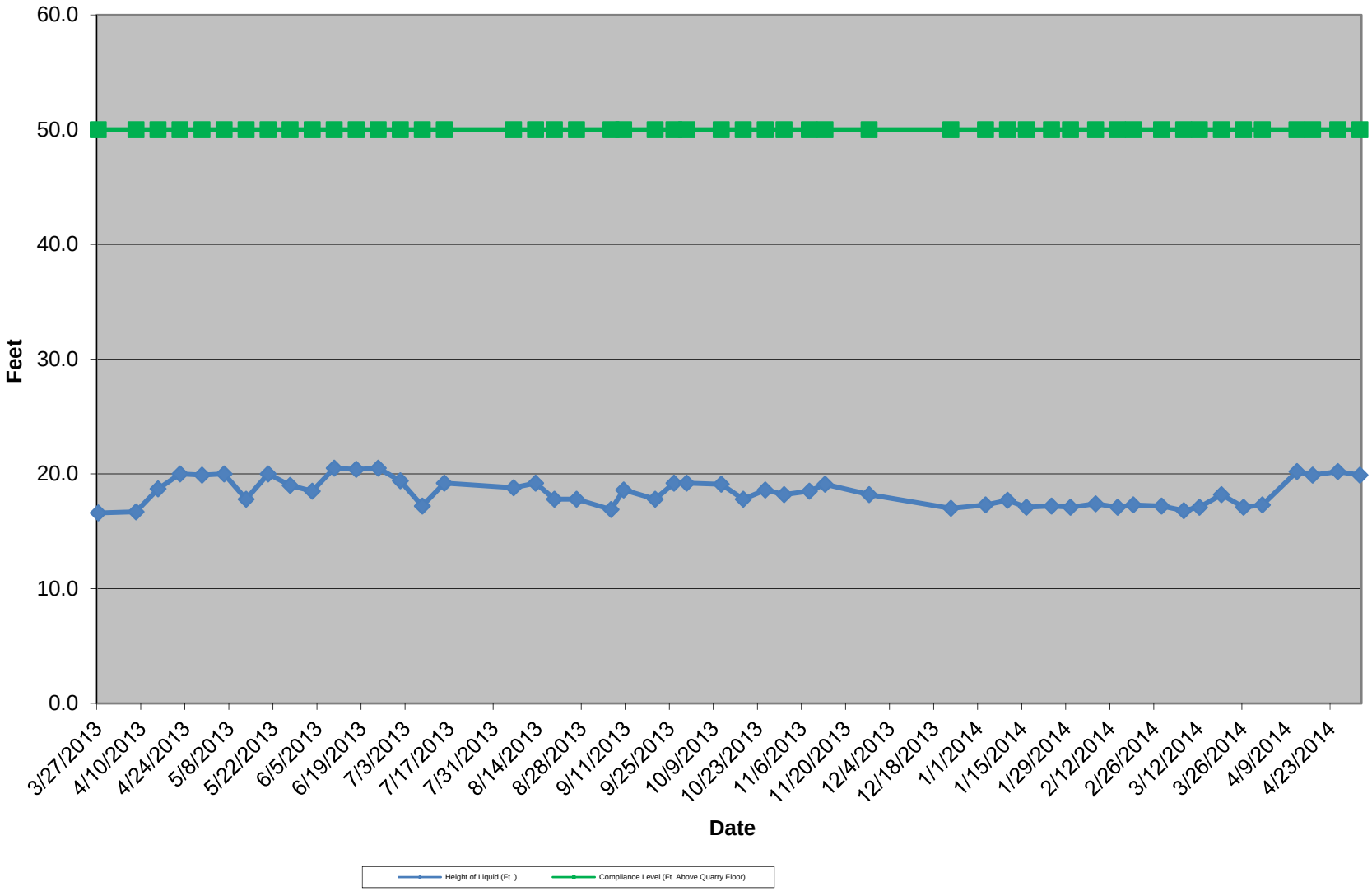
# LCS-2D Liquid Level Above Quarry Floor



# LCS-5A Liquid Level Above Quarry Floor



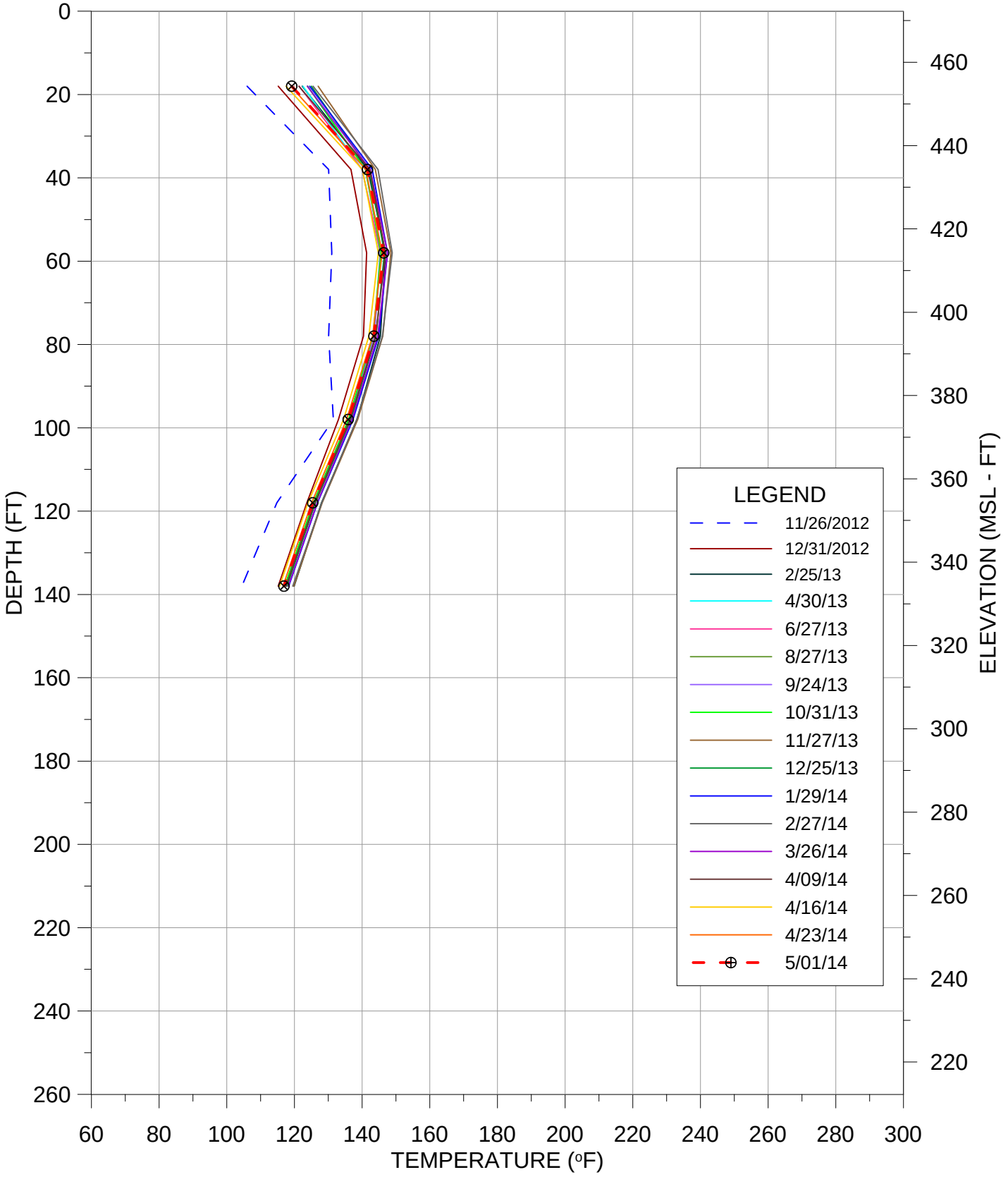
# LCS-6B Liquid Level Above Quarry Floor



## ATTACHMENT B

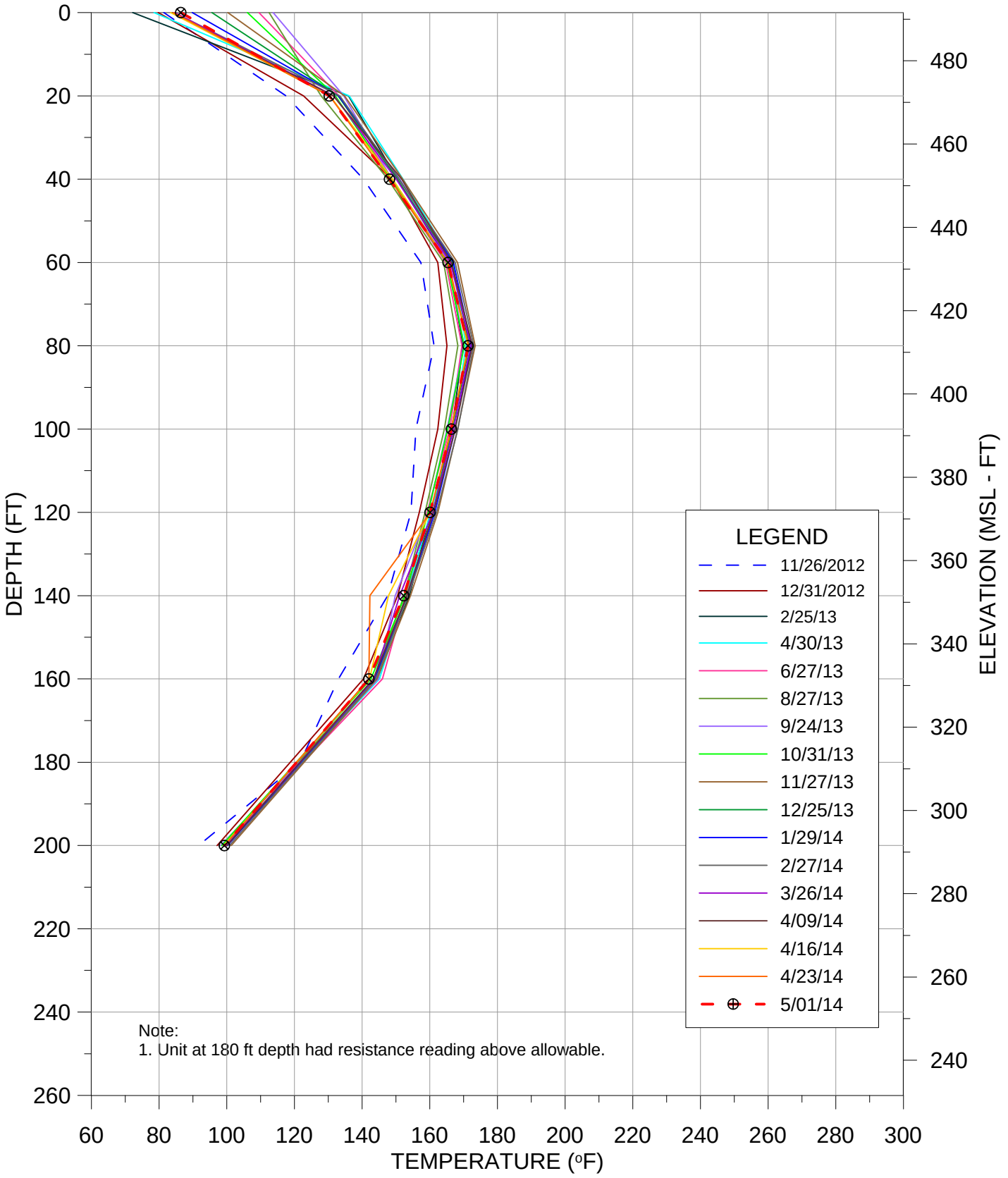
## TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

# TMP-1



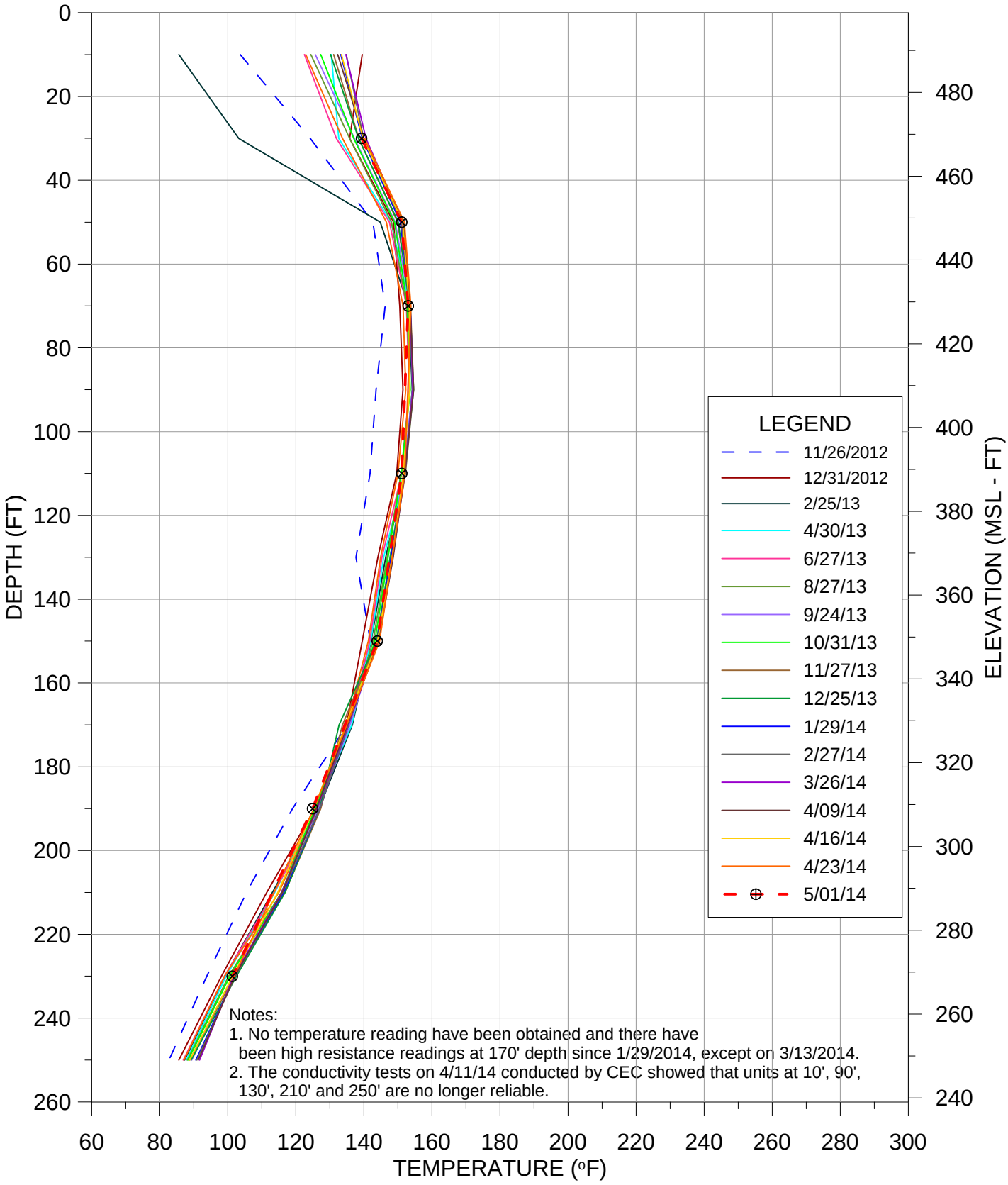

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# TMP-2



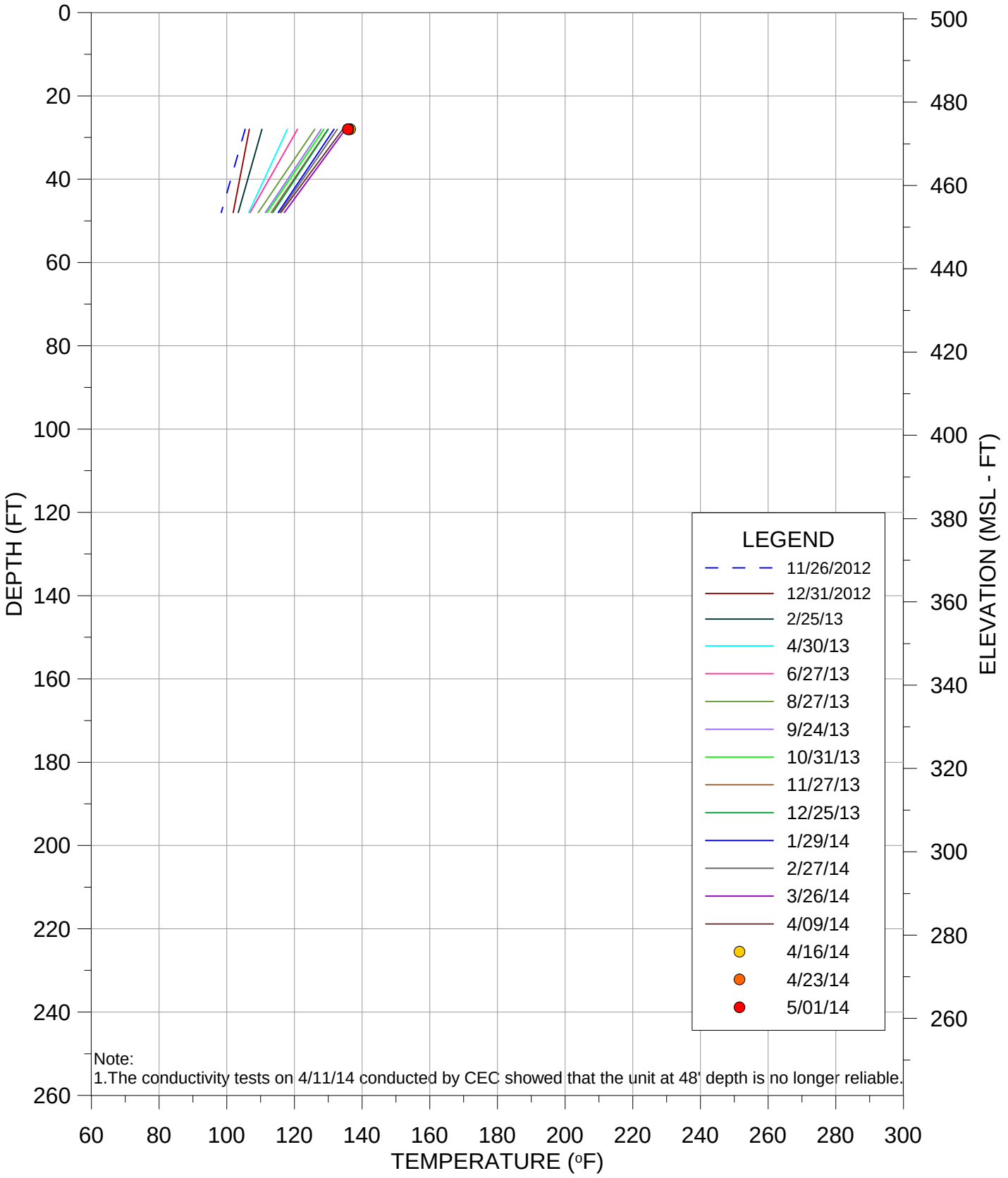

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# TMP-3




TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

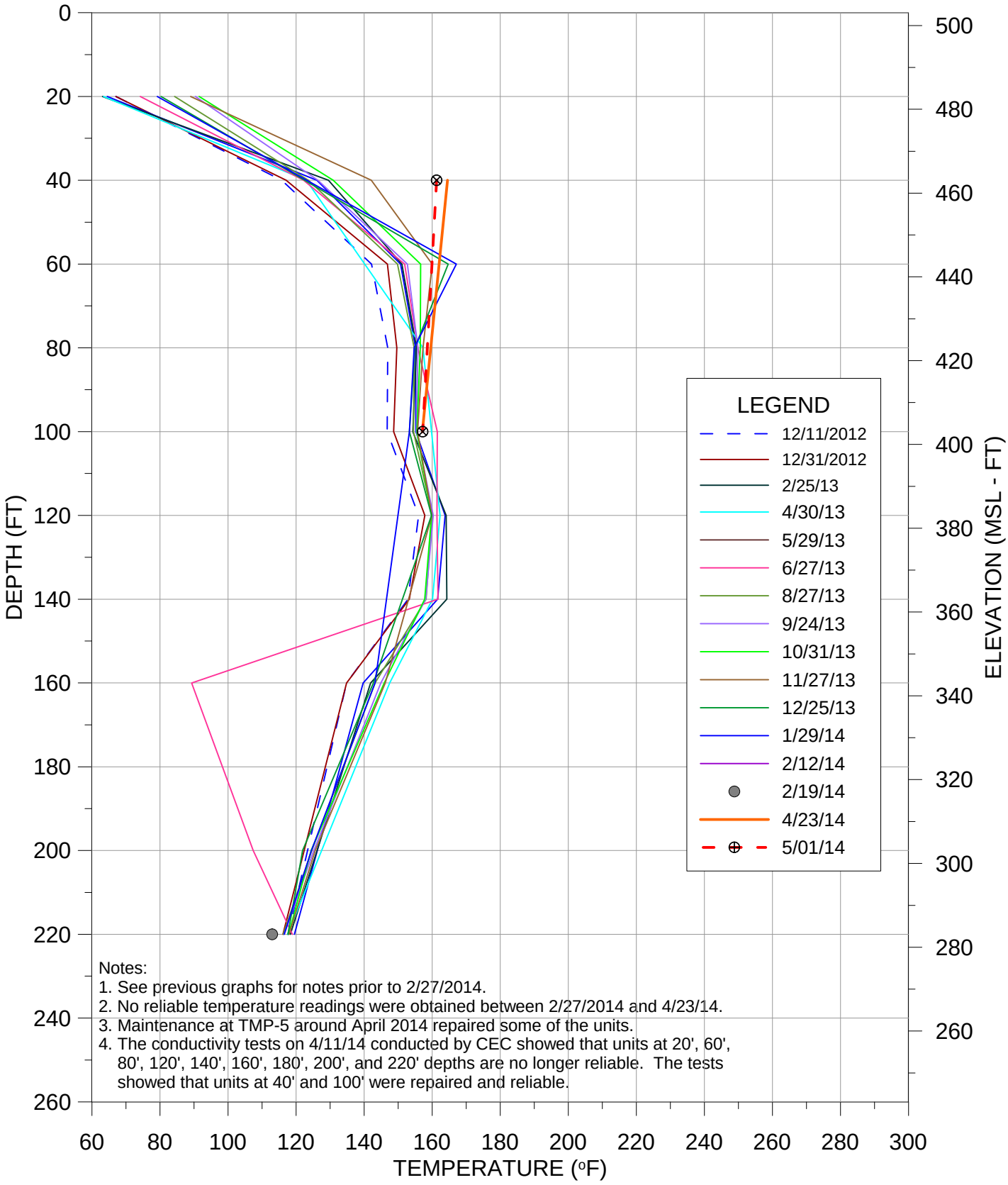
# TMP-4




Note:
1.The conductivity tests on 4/11/14 conducted by CEC showed that the unit at 48' depth is no longer reliable.

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

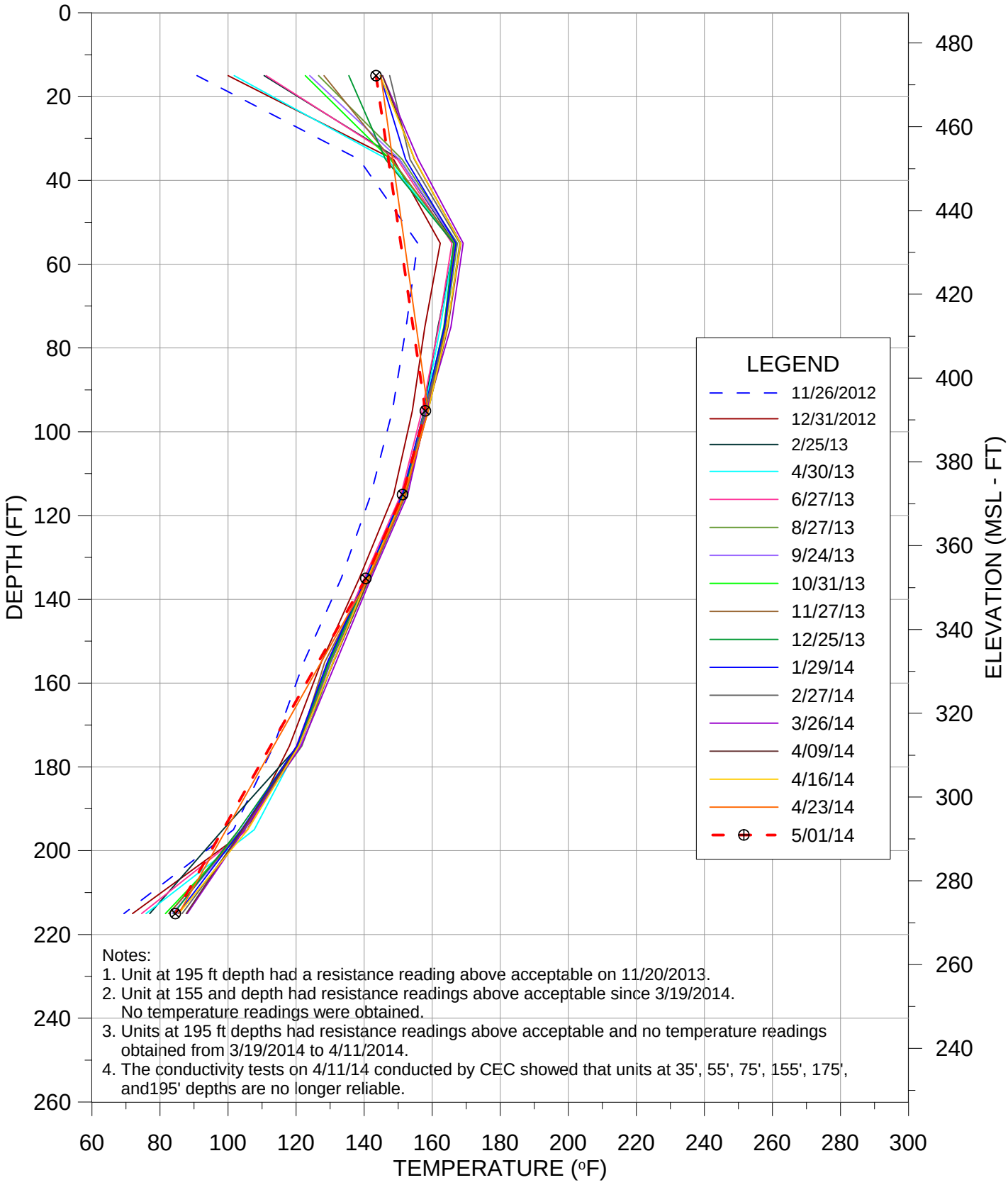
# TMP-5




Notes:
1. See previous graphs for notes prior to 2/27/2014.
2. No reliable temperature readings were obtained between 2/27/2014 and 4/23/14.
3. Maintenance at TMP-5 around April 2014 repaired some of the units.
4. The conductivity tests on 4/11/14 conducted by CEC showed that units at 20', 60', 80', 120', 140', 160', 180', 200', and 220' depths are no longer reliable. The tests showed that units at 40' and 100' were repaired and reliable.

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

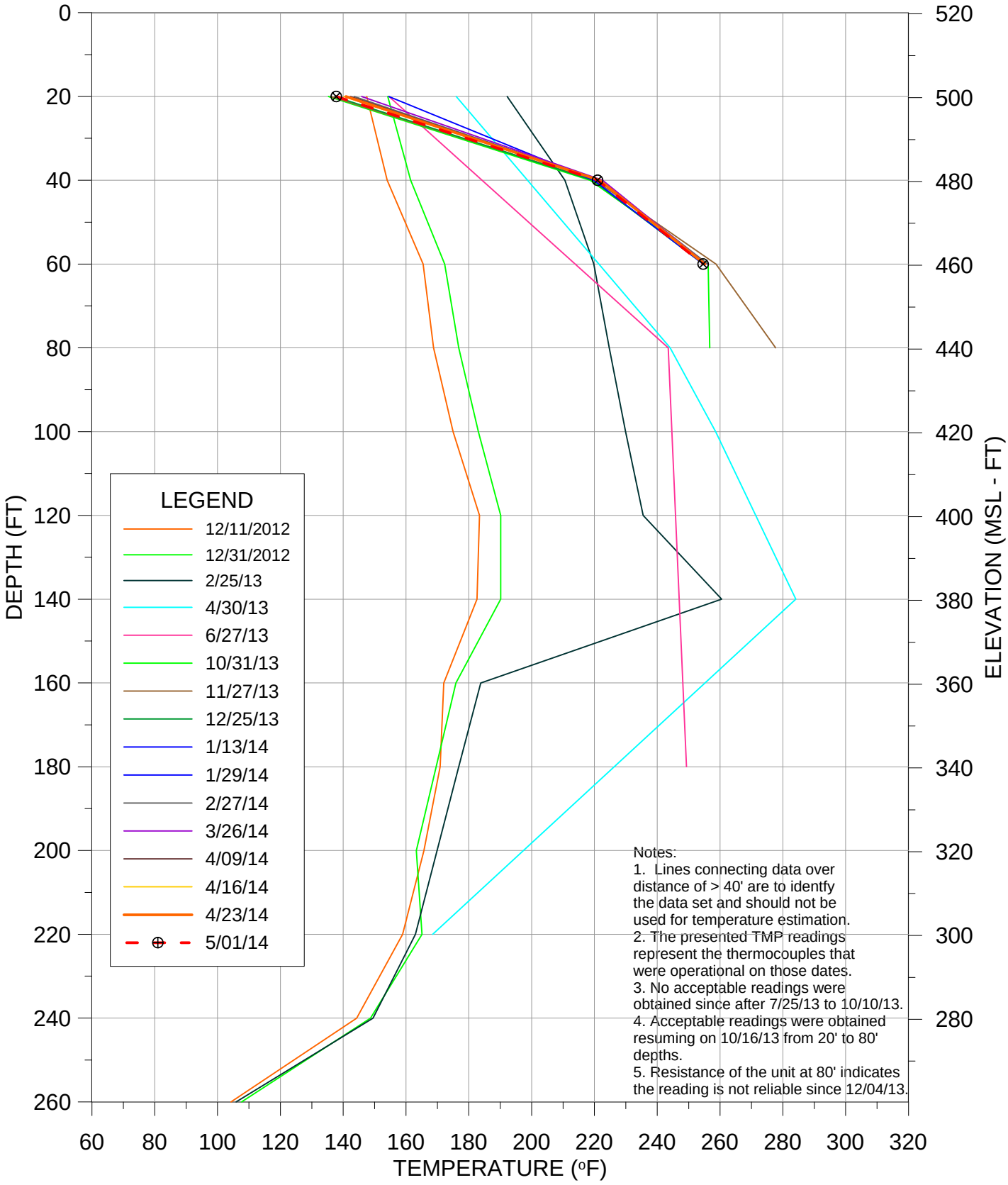
# TMP-6




Notes:
1. Unit at 195 ft depth had a resistance reading above acceptable on 11/20/2013.
2. Unit at 155 and depth had resistance readings above acceptable since 3/19/2014. No temperature readings were obtained.
3. Units at 195 ft depths had resistance readings above acceptable and no temperature readings obtained from 3/19/2014 to 4/11/2014.
4. The conductivity tests on 4/11/14 conducted by CEC showed that units at 35', 55', 75', 155', 175', and195' depths are no longer reliable.

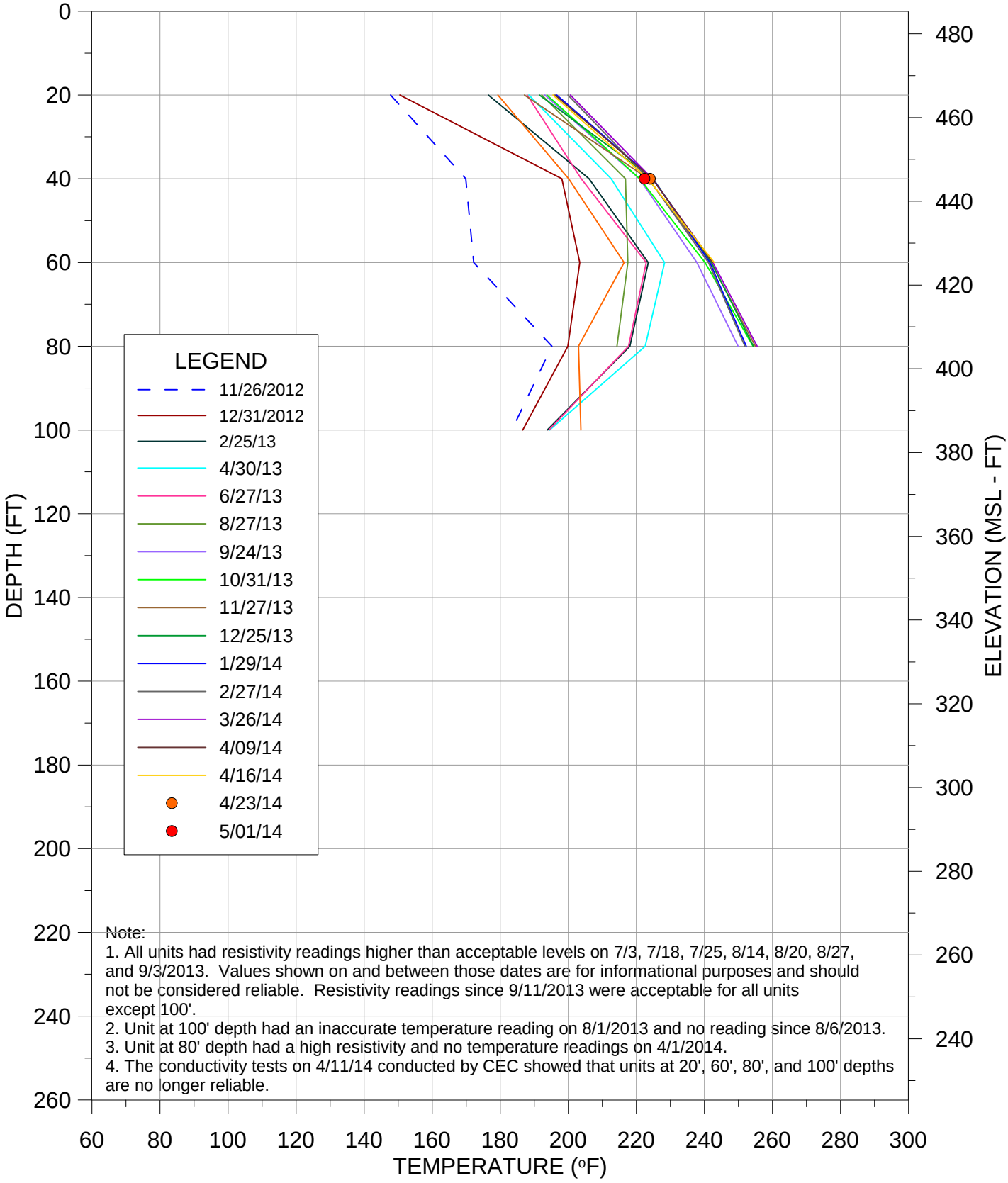
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# TMP-8




TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

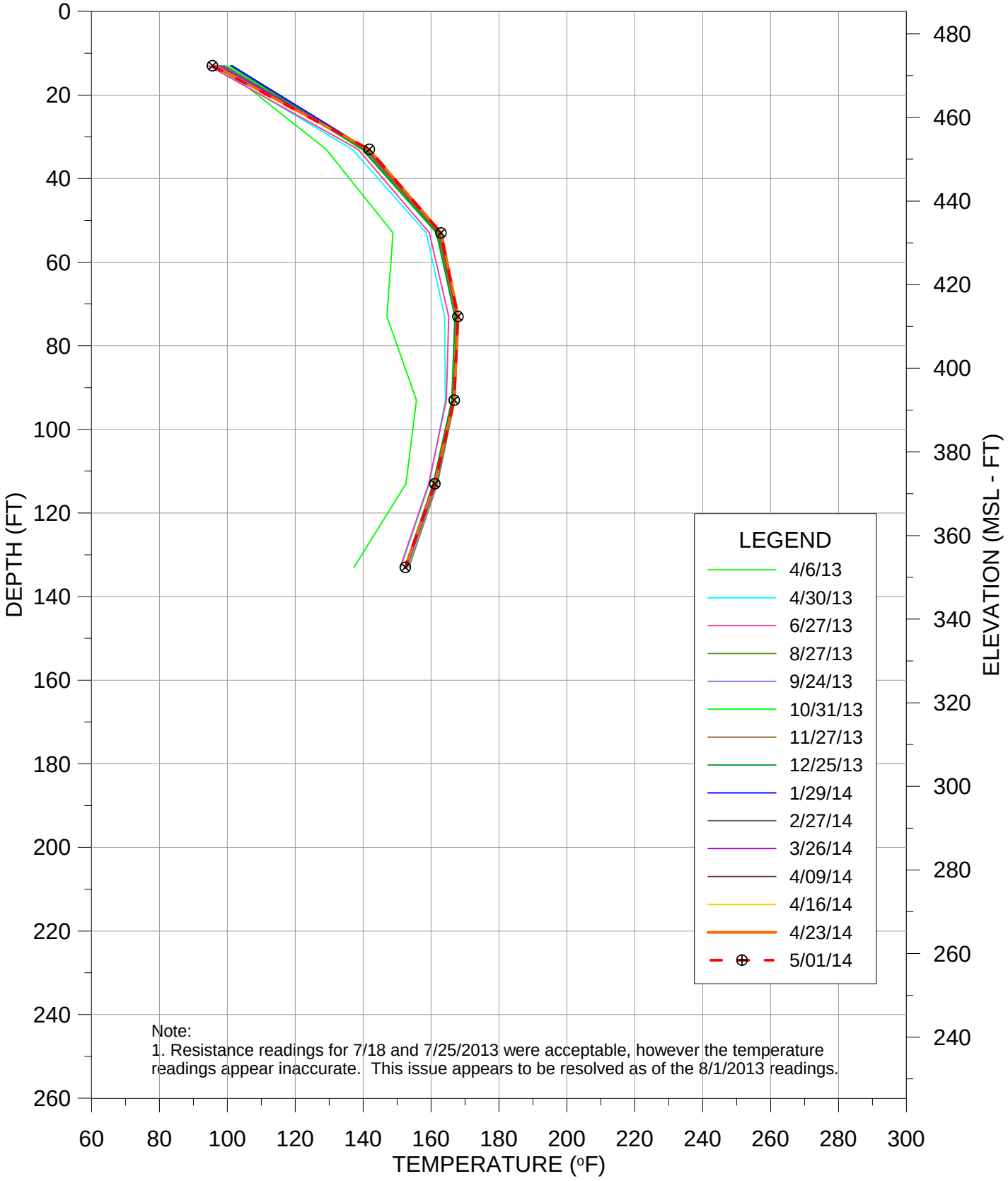
# TMP-9




Note:
1. All units had resistivity readings higher than acceptable levels on 7/3, 7/18, 7/25, 8/14, 8/20, 8/27, and 9/3/2013. Values shown on and between those dates are for informational purposes and should not be considered reliable. Resistivity readings since 9/11/2013 were acceptable for all units except 100'.
2. Unit at 100' depth had an inaccurate temperature reading on 8/1/2013 and no reading since 8/6/2013.
3. Unit at 80' depth had a high resistivity and no temperature readings on 4/1/2014.
4. The conductivity tests on 4/11/14 conducted by CEC showed that units at 20', 60', 80', and 100' depths are no longer reliable.

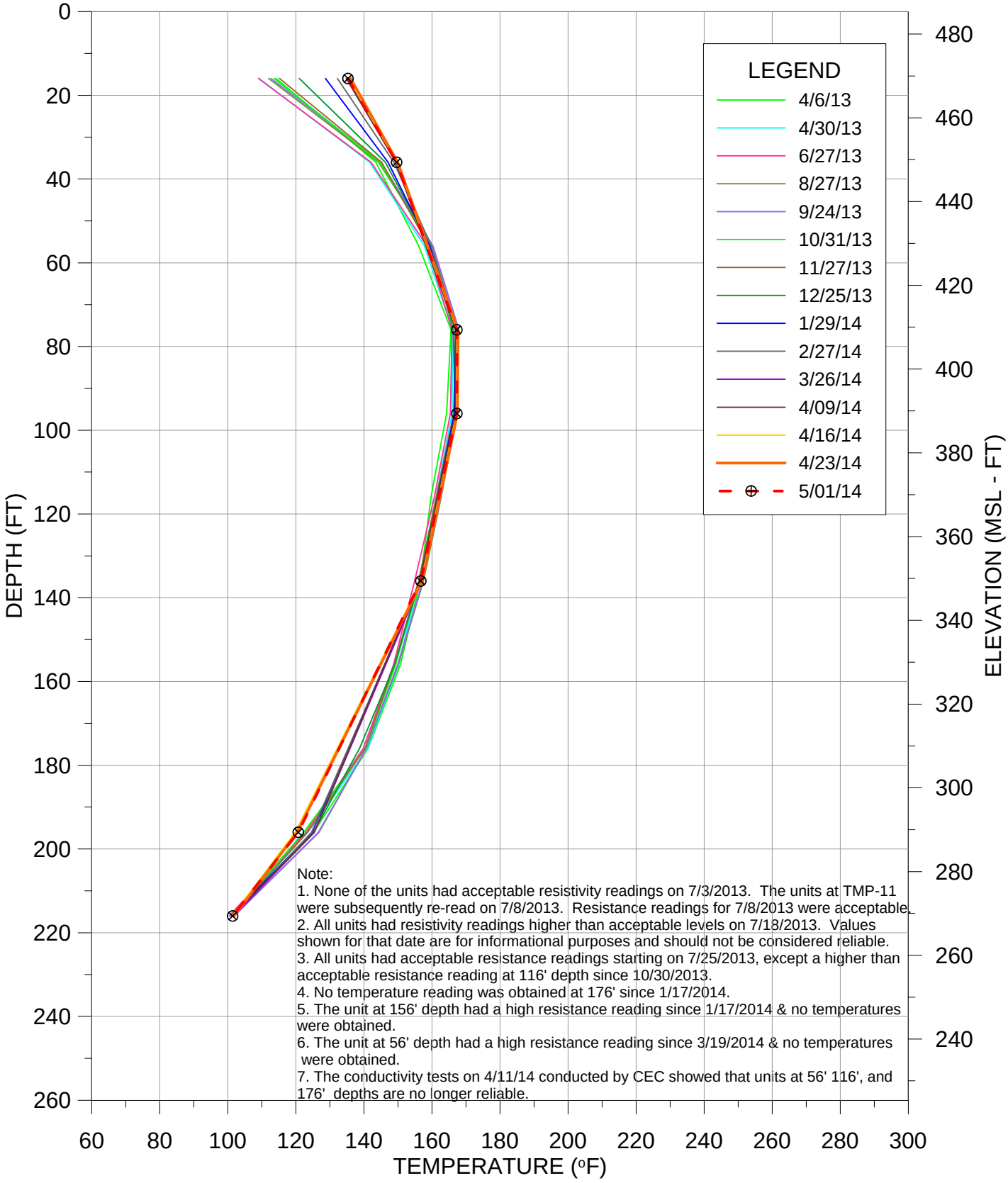
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# TMP-10




TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

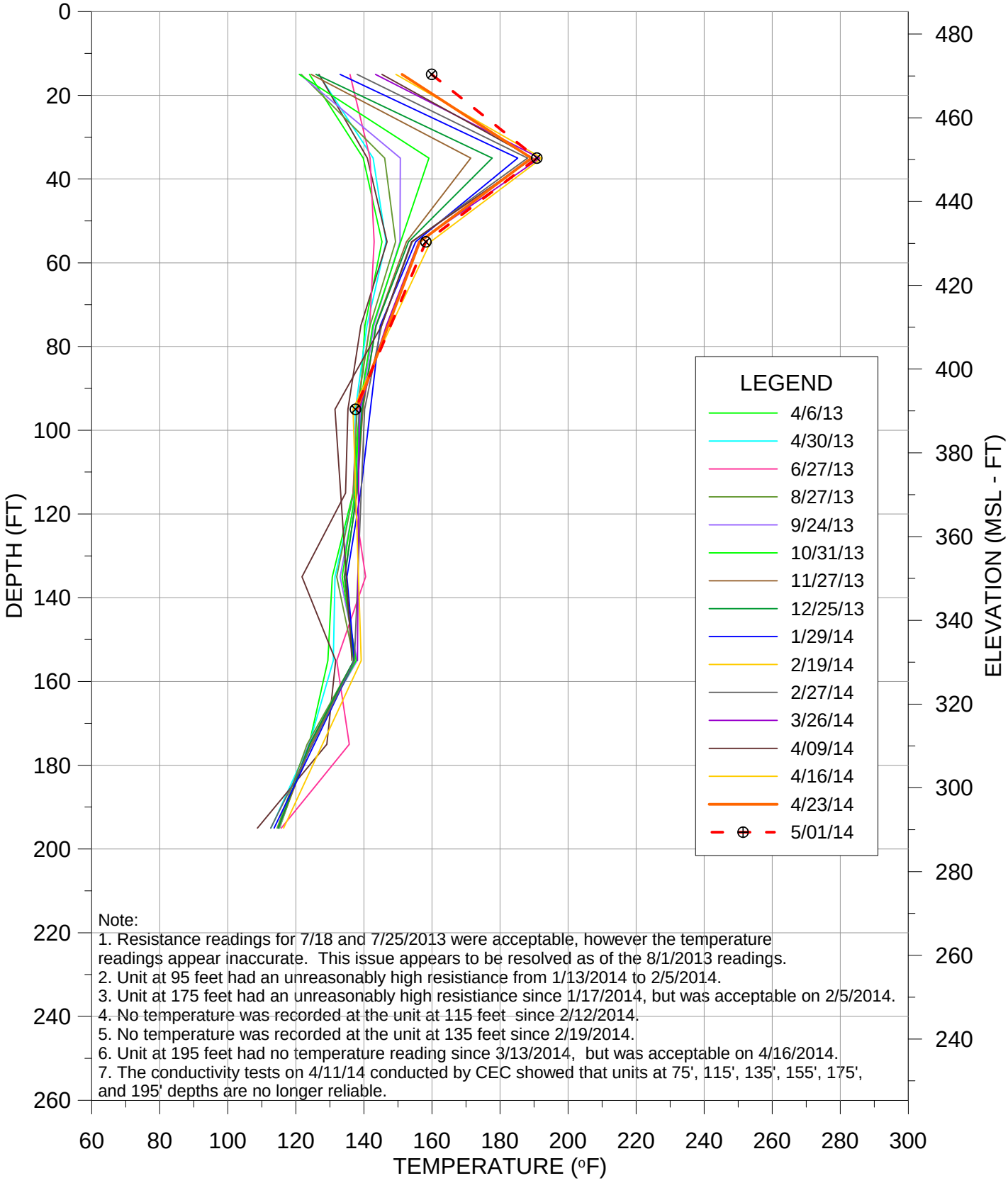
# TMP-11




Note:
1. None of the units had acceptable resistivity readings on 7/3/2013. The units at TMP-11 were subsequently re-read on 7/8/2013. Resistance readings for 7/8/2013 were acceptable.
2. All units had resistivity readings higher than acceptable levels on 7/18/2013. Values shown for that date are for informational purposes and should not be considered reliable.
3. All units had acceptable resistance readings starting on 7/25/2013, except a higher than acceptable resistance reading at 116' depth since 10/30/2013.
4. No temperature reading was obtained at 176' since 1/17/2014.
5. The unit at 156' depth had a high resistance reading since 1/17/2014 & no temperatures were obtained.
6. The unit at 56' depth had a high resistance reading since 3/19/2014 & no temperatures were obtained.
7. The conductivity tests on 4/11/14 conducted by CEC showed that units at 56' 116', and 176' depths are no longer reliable.

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

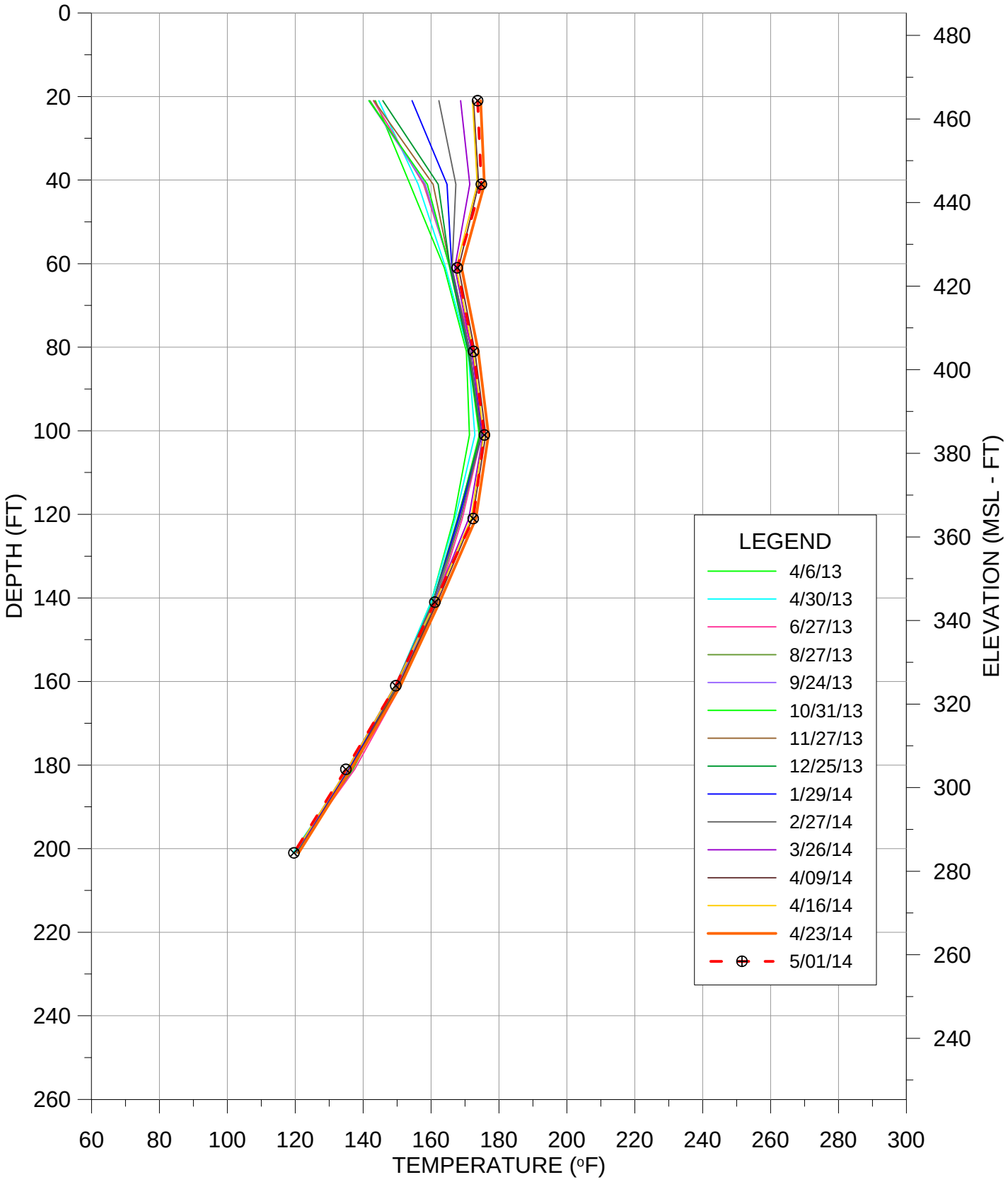
# TMP-12




Note:
1. Resistance readings for 7/18 and 7/25/2013 were acceptable, however the temperature readings appear inaccurate. This issue appears to be resolved as of the 8/1/2013 readings.
2. Unit at 95 feet had an unreasonably high resistiance from 1/13/2014 to 2/5/2014.
3. Unit at 175 feet had an unreasonably high resistiance since 1/17/2014, but was acceptable on 2/5/2014.
4. No temperature was recorded at the unit at 115 feet since 2/12/2014.
5. No temperature was recorded at the unit at 135 feet since 2/19/2014.
6. Unit at 195 feet had no temperature reading since 3/13/2014, but was acceptable on 4/16/2014.
7. The conductivity tests on 4/11/14 conducted by CEC showed that units at 75', 115', 135', 155', 175', and 195' depths are no longer reliable.

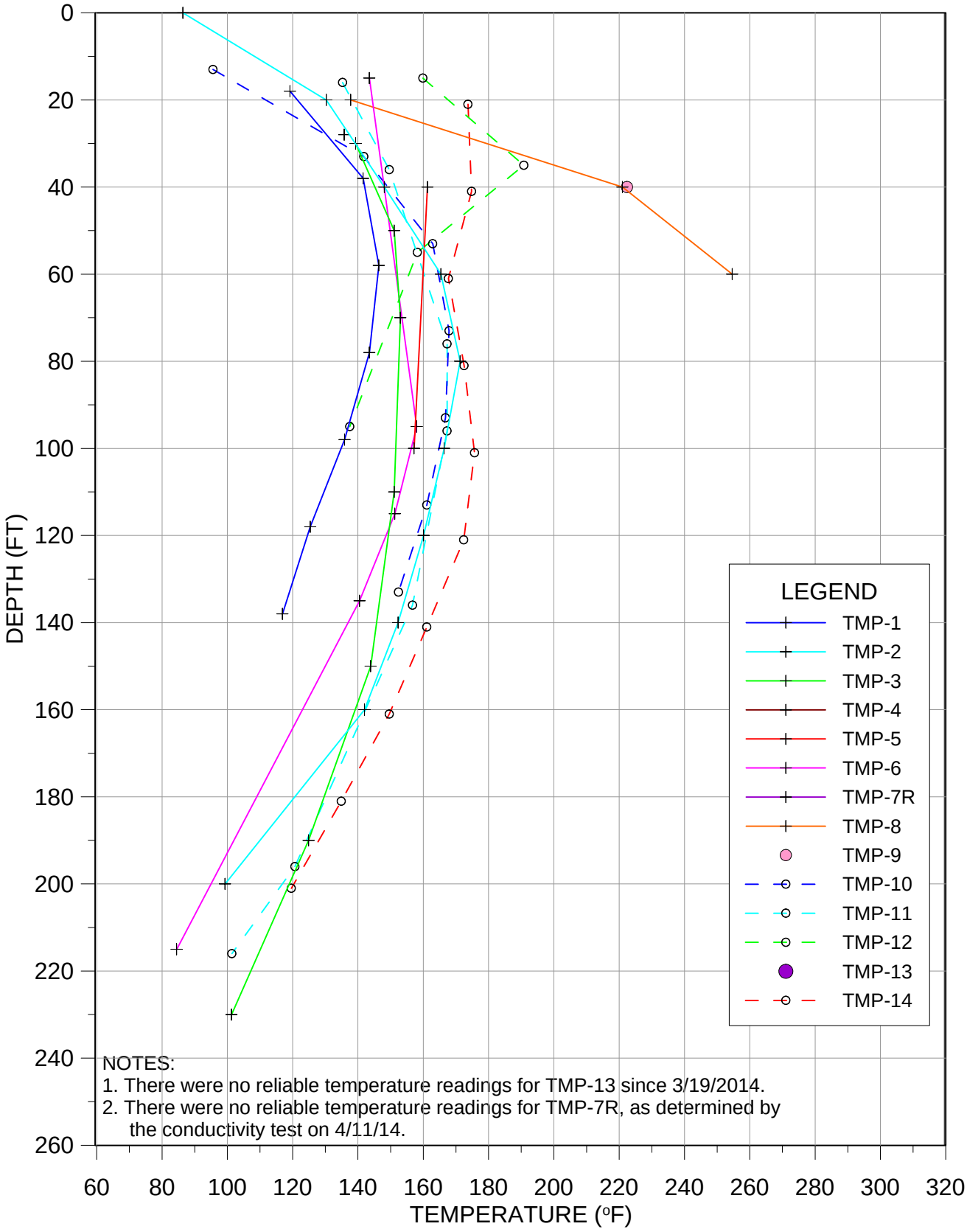
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# TMP-14



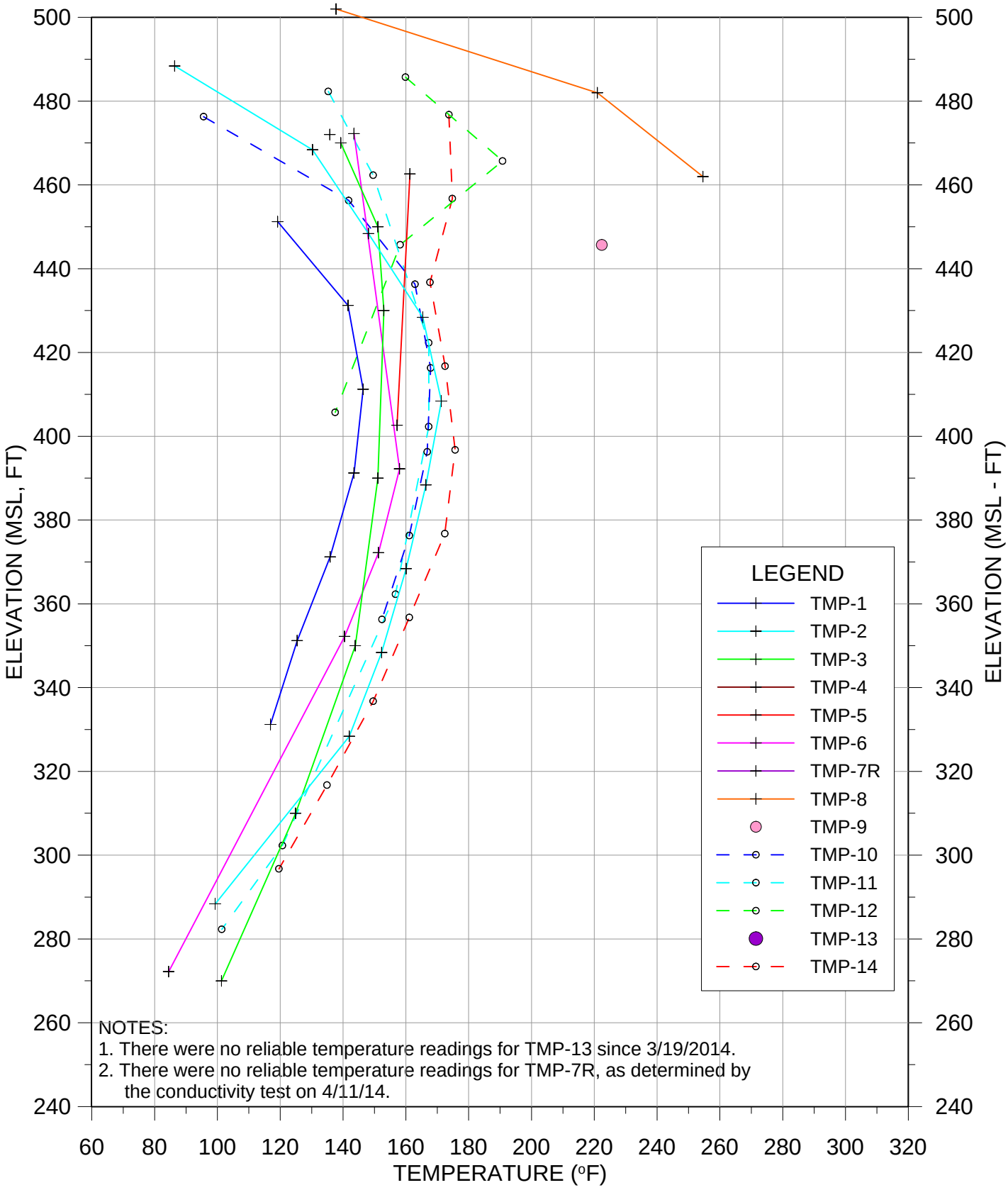

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# 05/01/2014 -DEPTH



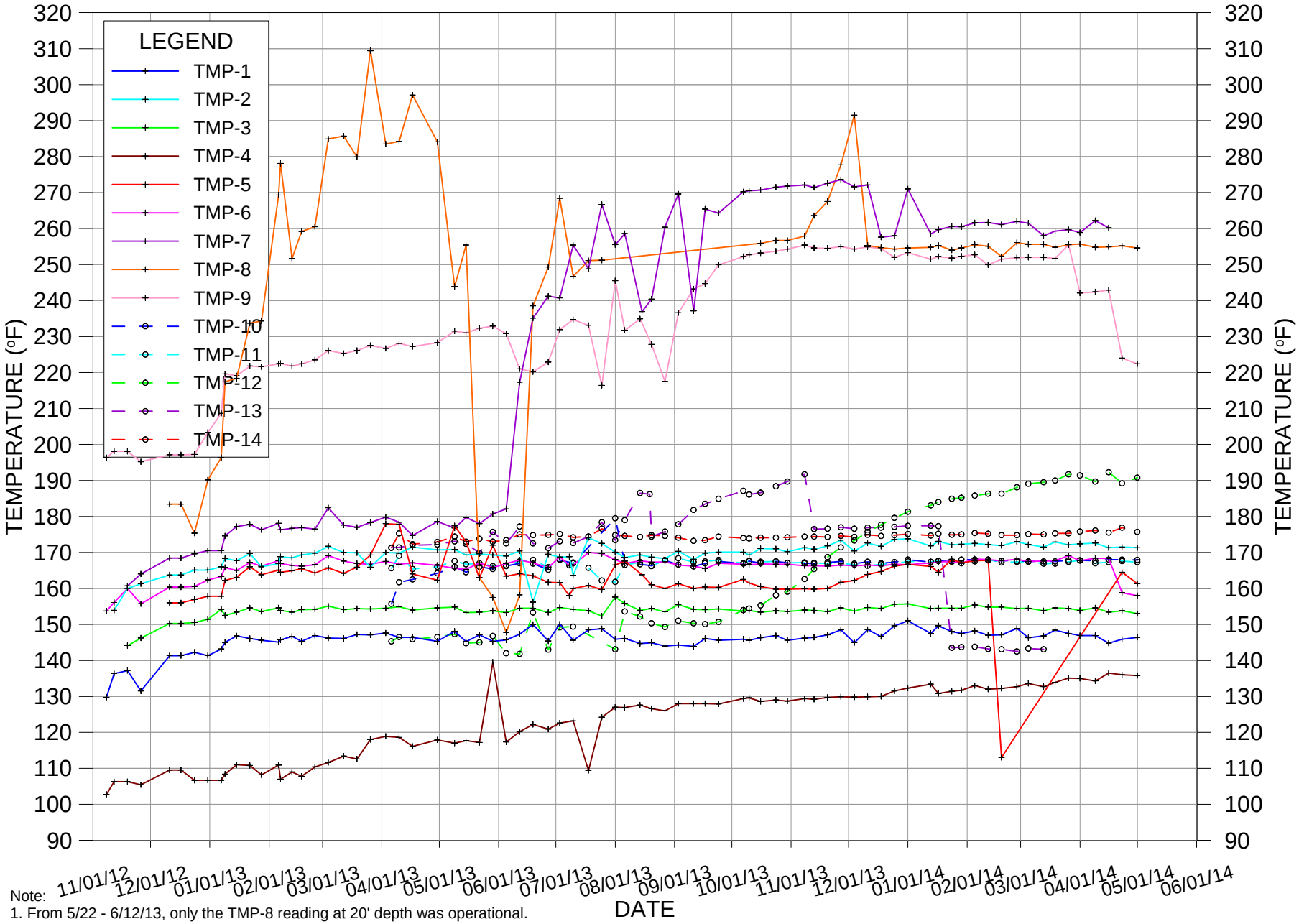

TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

# 05/01/2014 - ELEVATION




TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

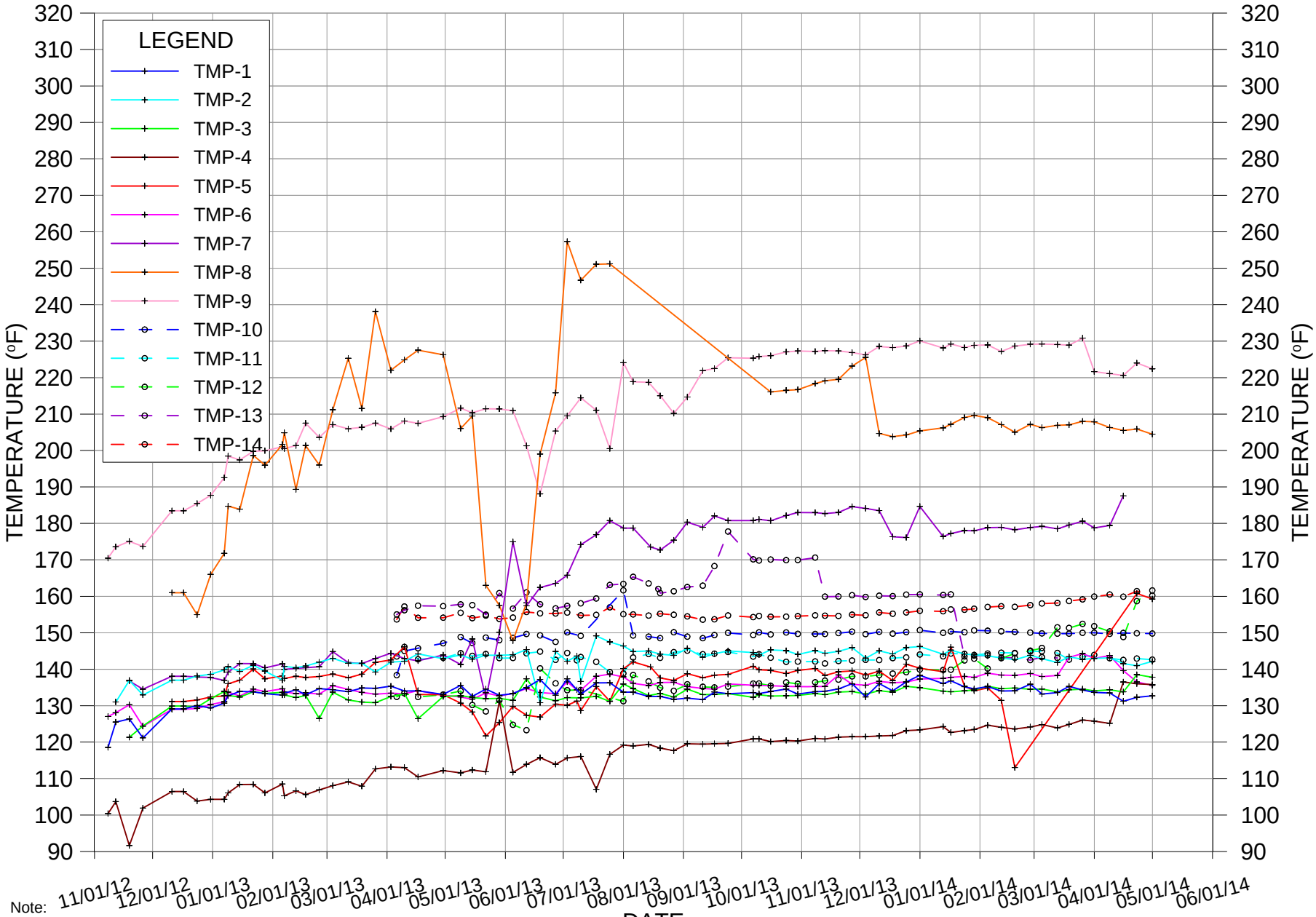
# MAXIMUM TEMPERATURES




Note:
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 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.

TEMPERATURE VS TIME
BRIDGETON LANDFILL

# AVERAGE TEMPERATURES

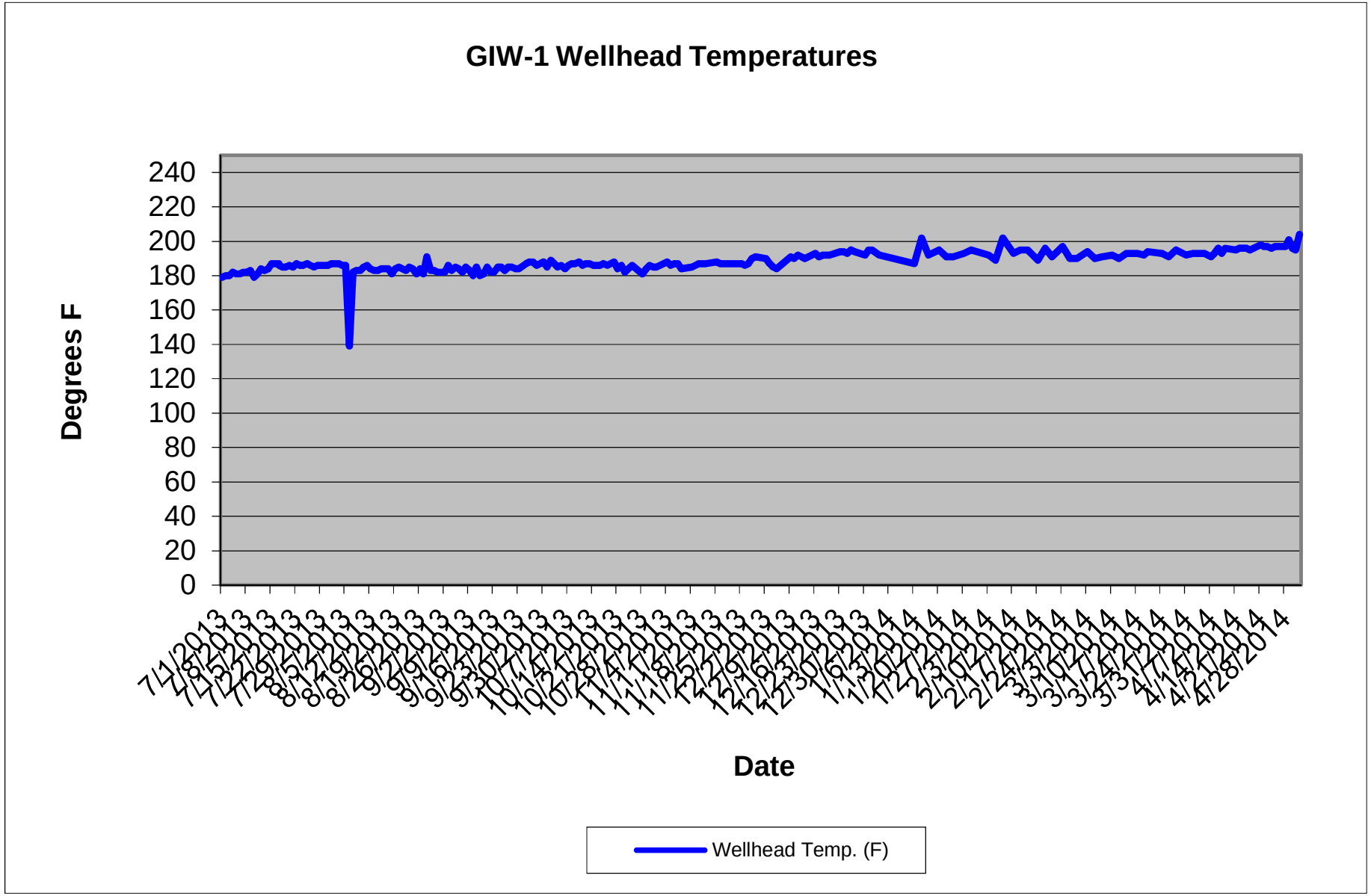


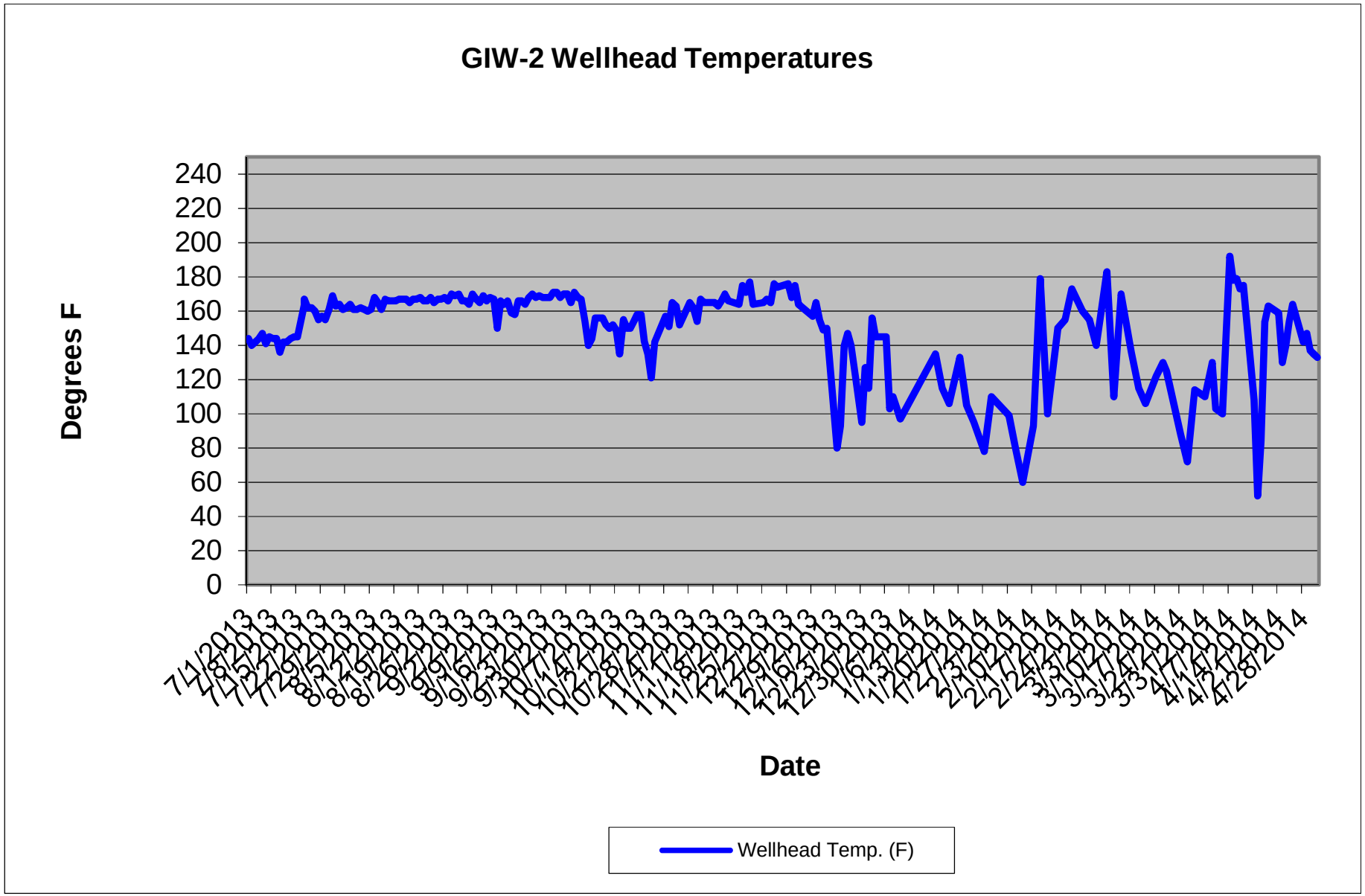

Note:
1. From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational. No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.
2. A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more vaild readings.
3. No valid 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.

TEMPERATURE VS TIME
BRIDGETON LANDFILL

## ATTACHMENT C

## GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS


GIW-1 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
10/28/2013
11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-2 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
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3/3/2014
3/10/2014
3/17/2014
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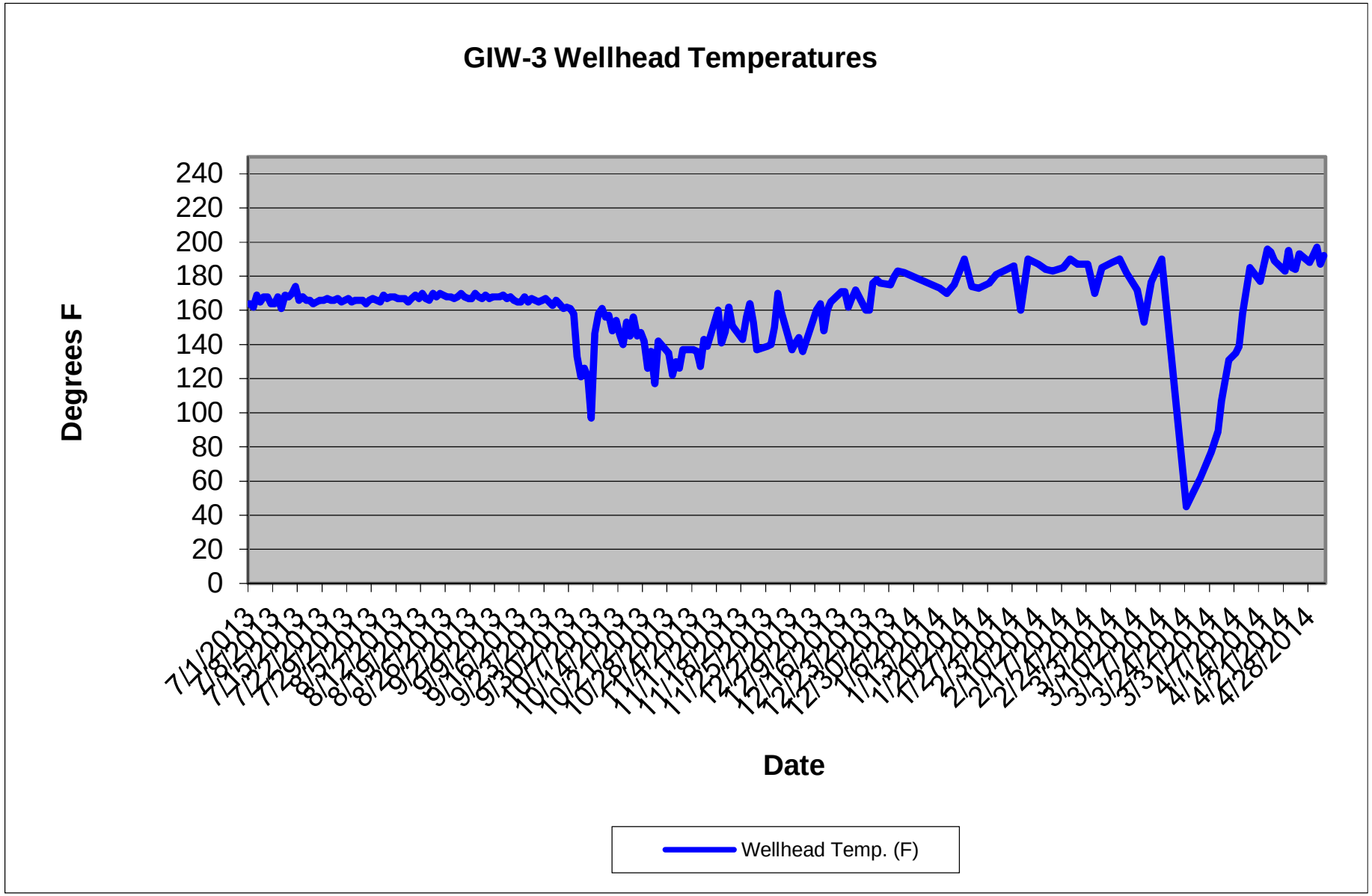
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-3 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
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12/9/2013
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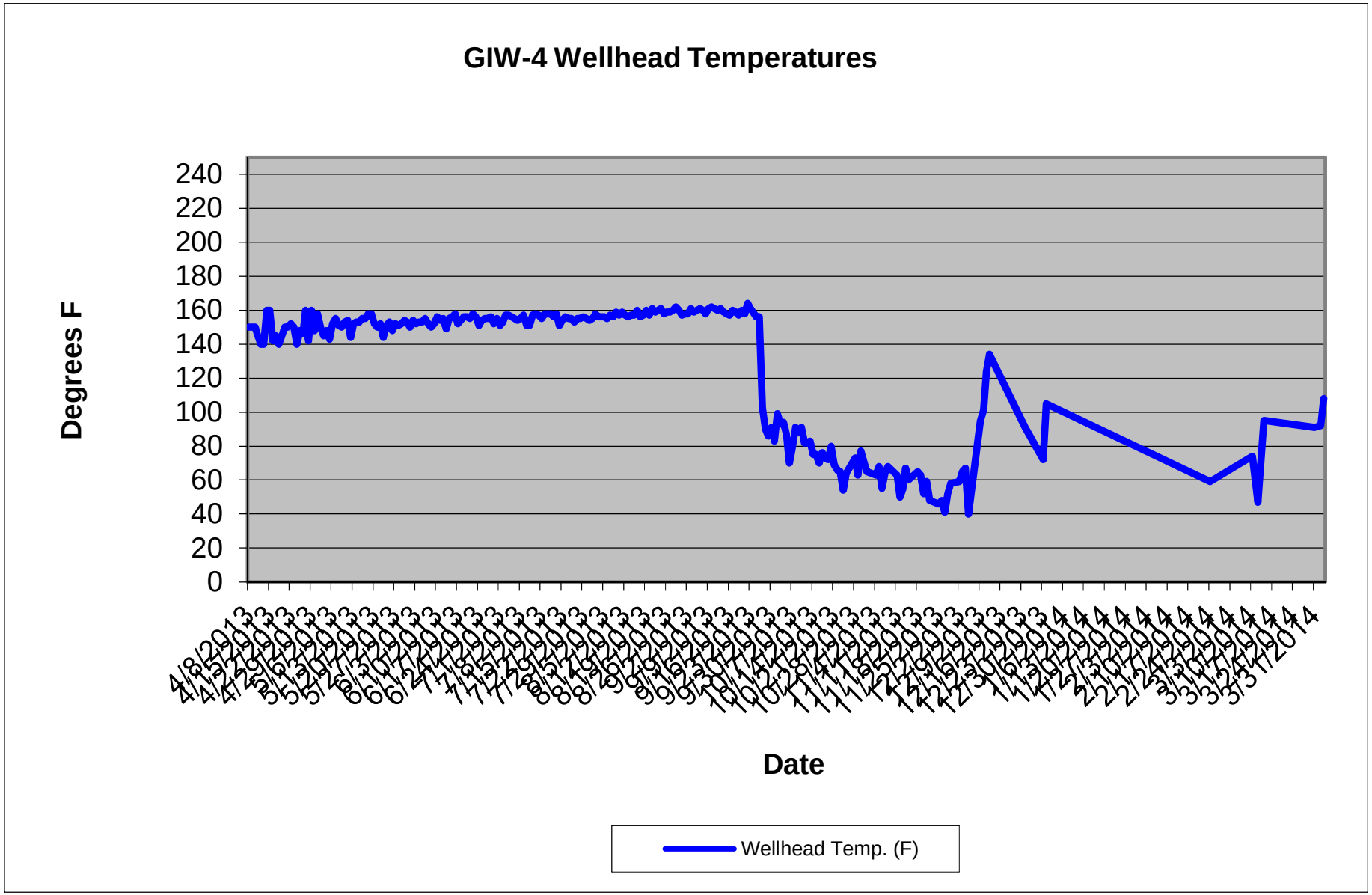
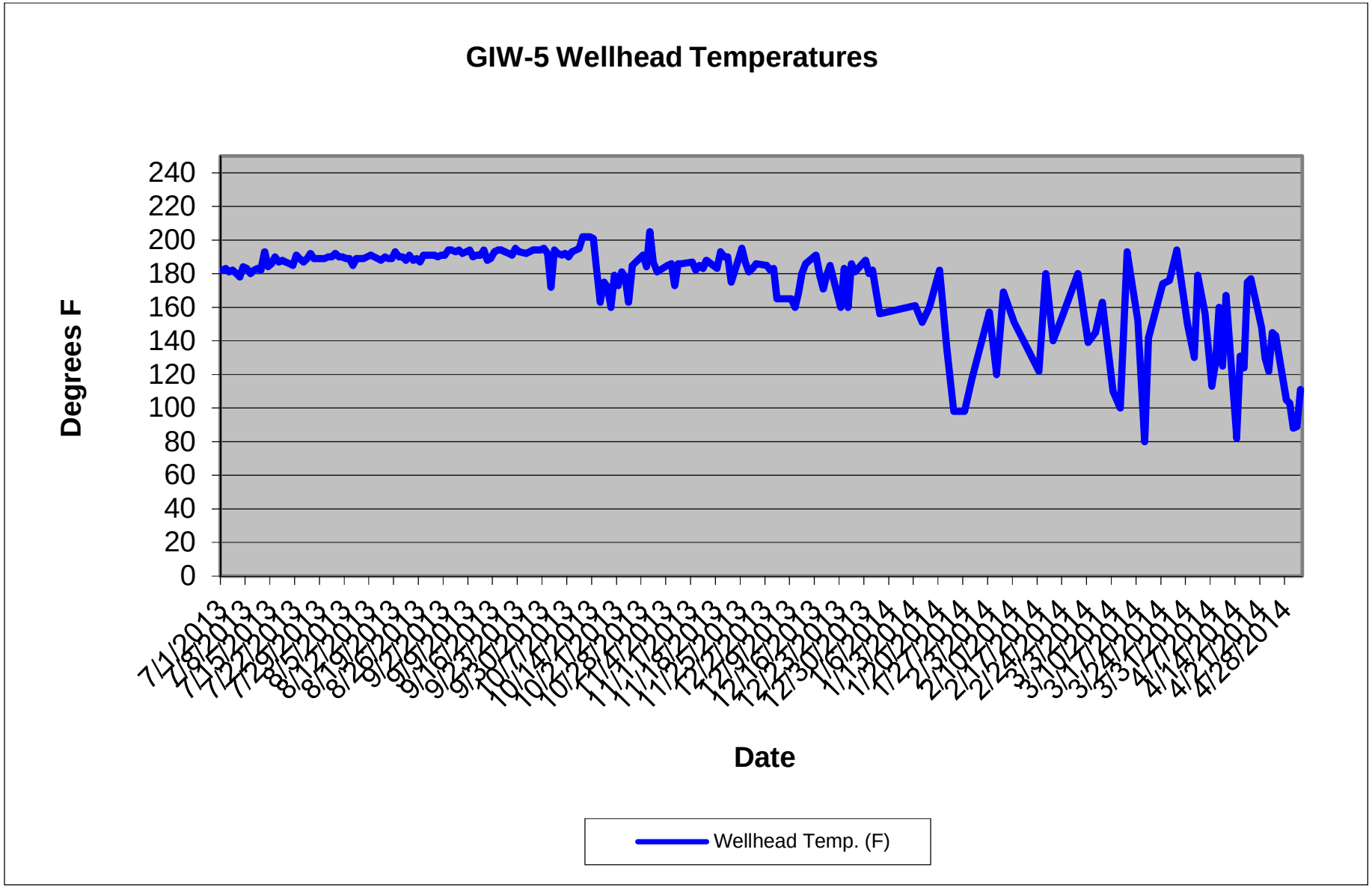
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-4 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
Date
Wellhead Temp. (F)


GIW-5 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
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10/28/2013
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11/11/2013
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11/25/2013
12/2/2013
12/9/2013
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1/13/2014
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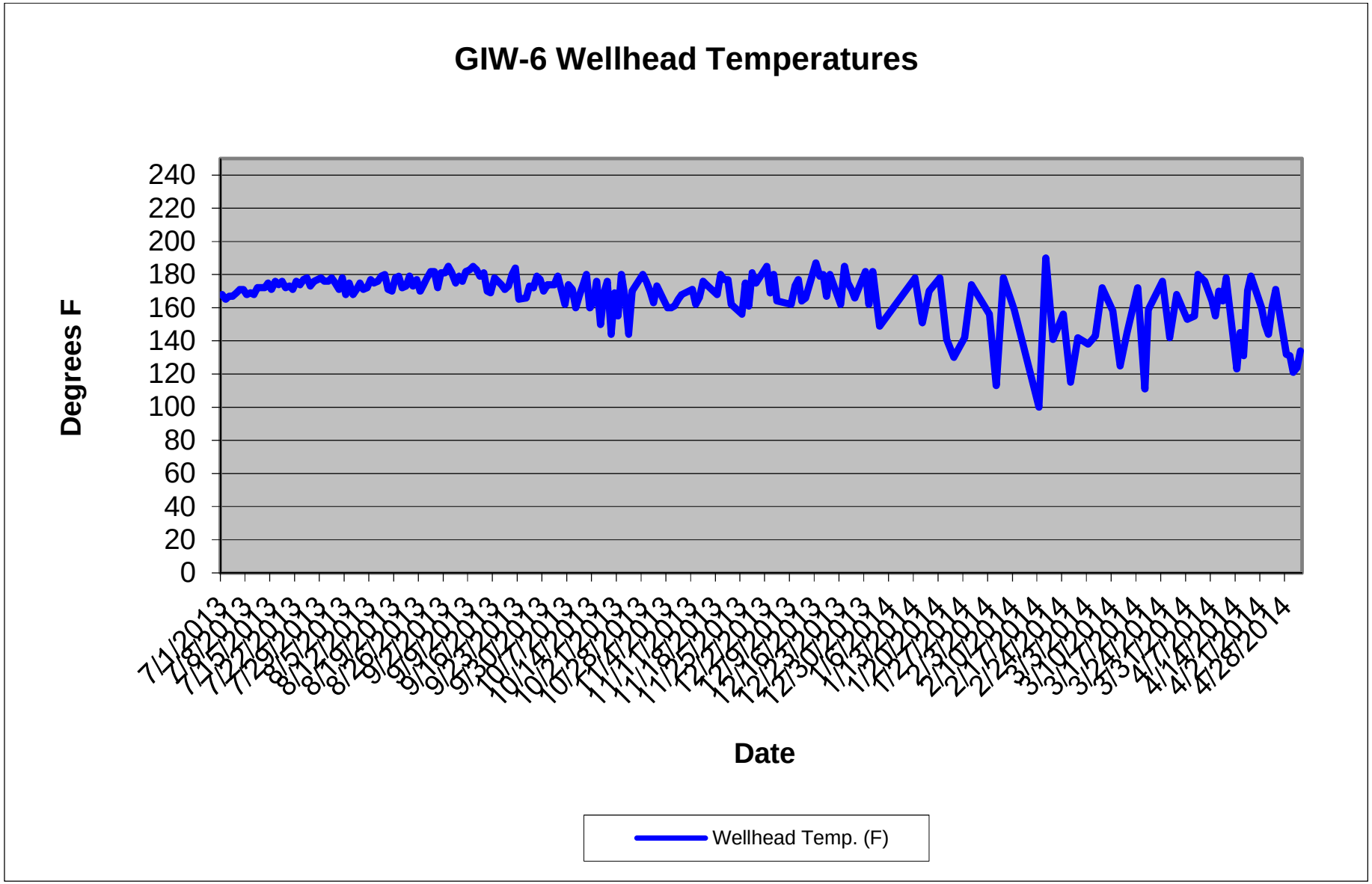
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-6 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
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7/15/2013
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10/14/2013
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11/11/2013
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11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
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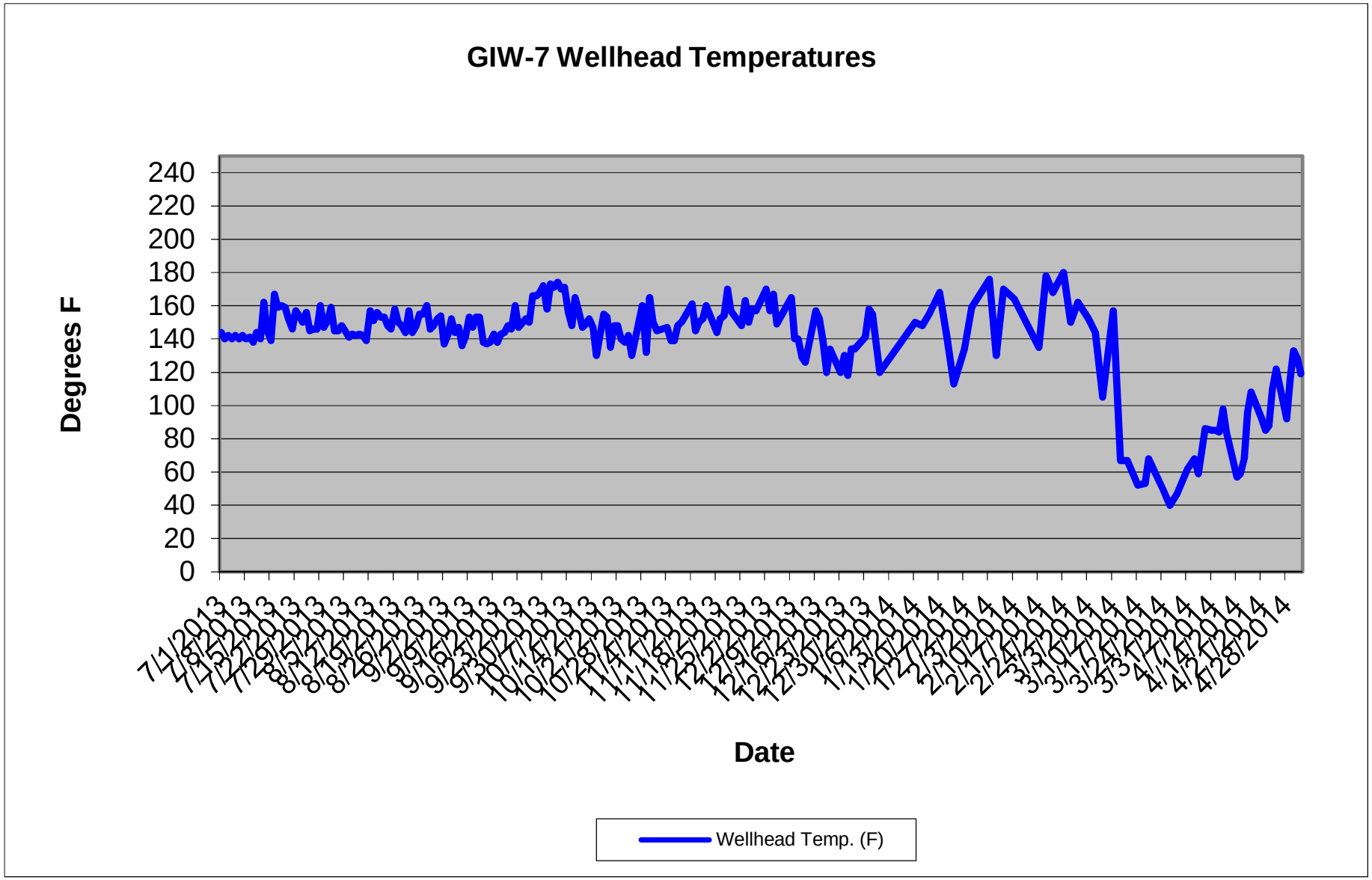
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-7 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
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9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
10/28/2013
11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
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1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
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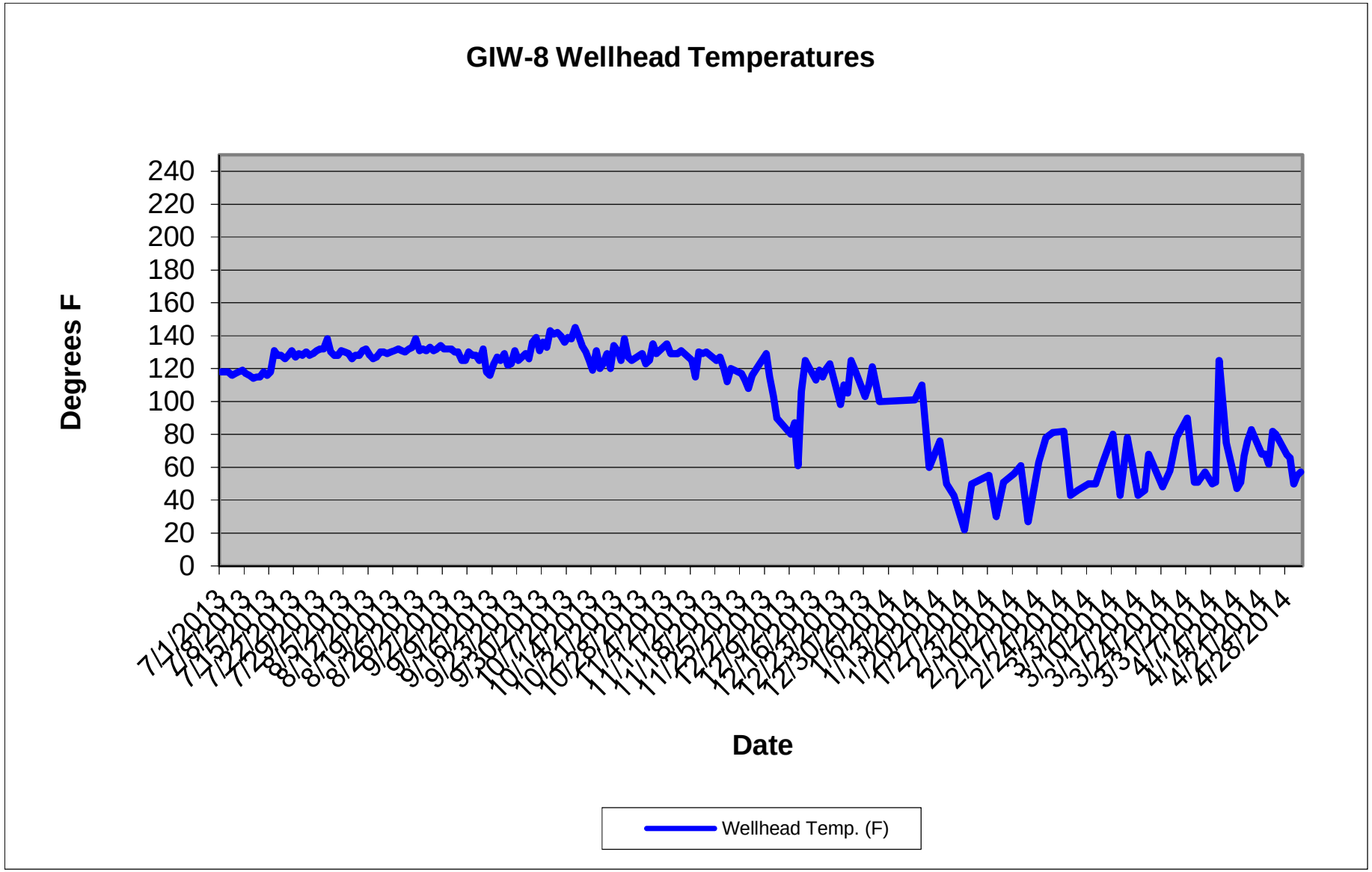
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-8 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
10/28/2013
11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
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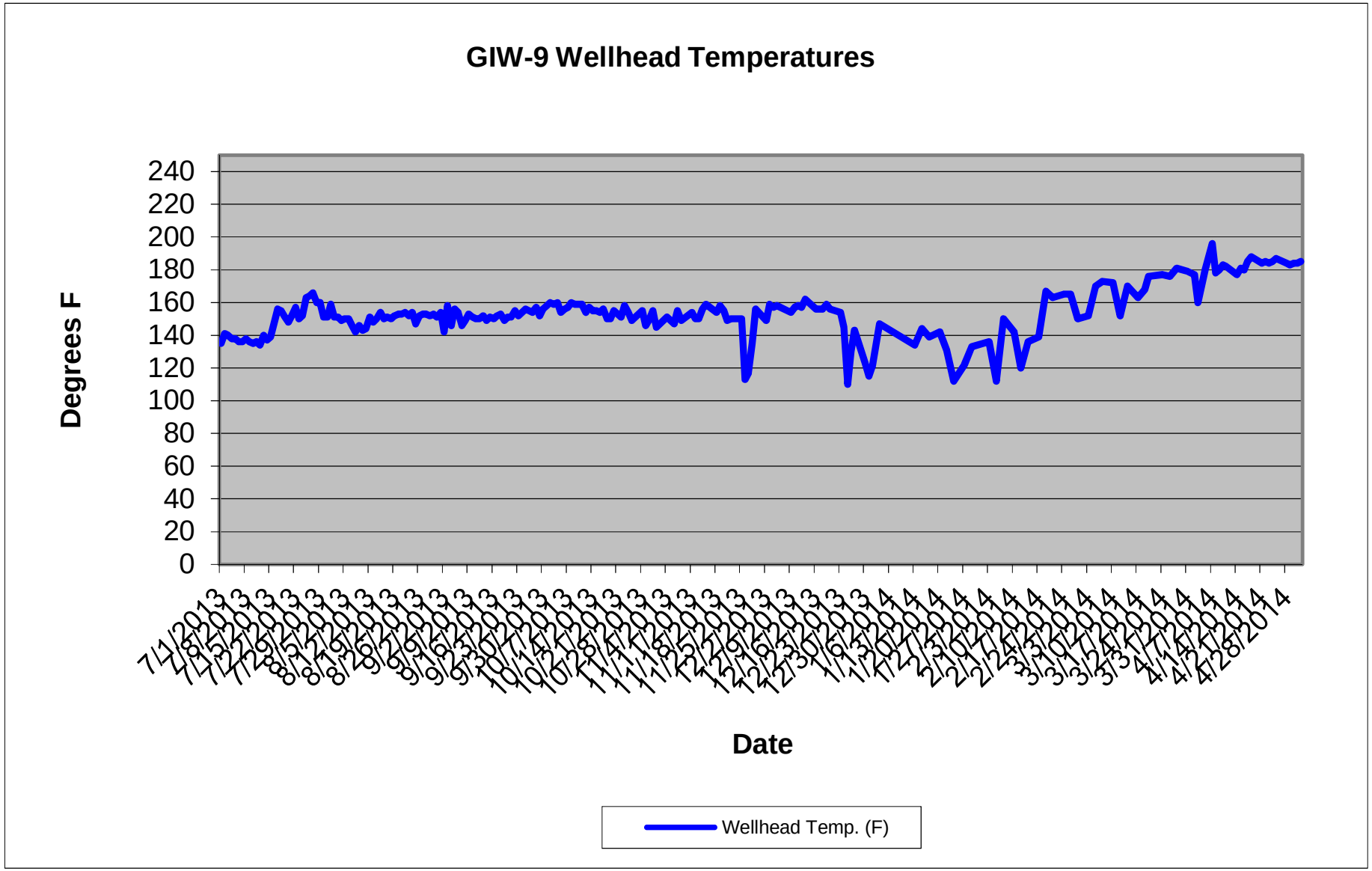
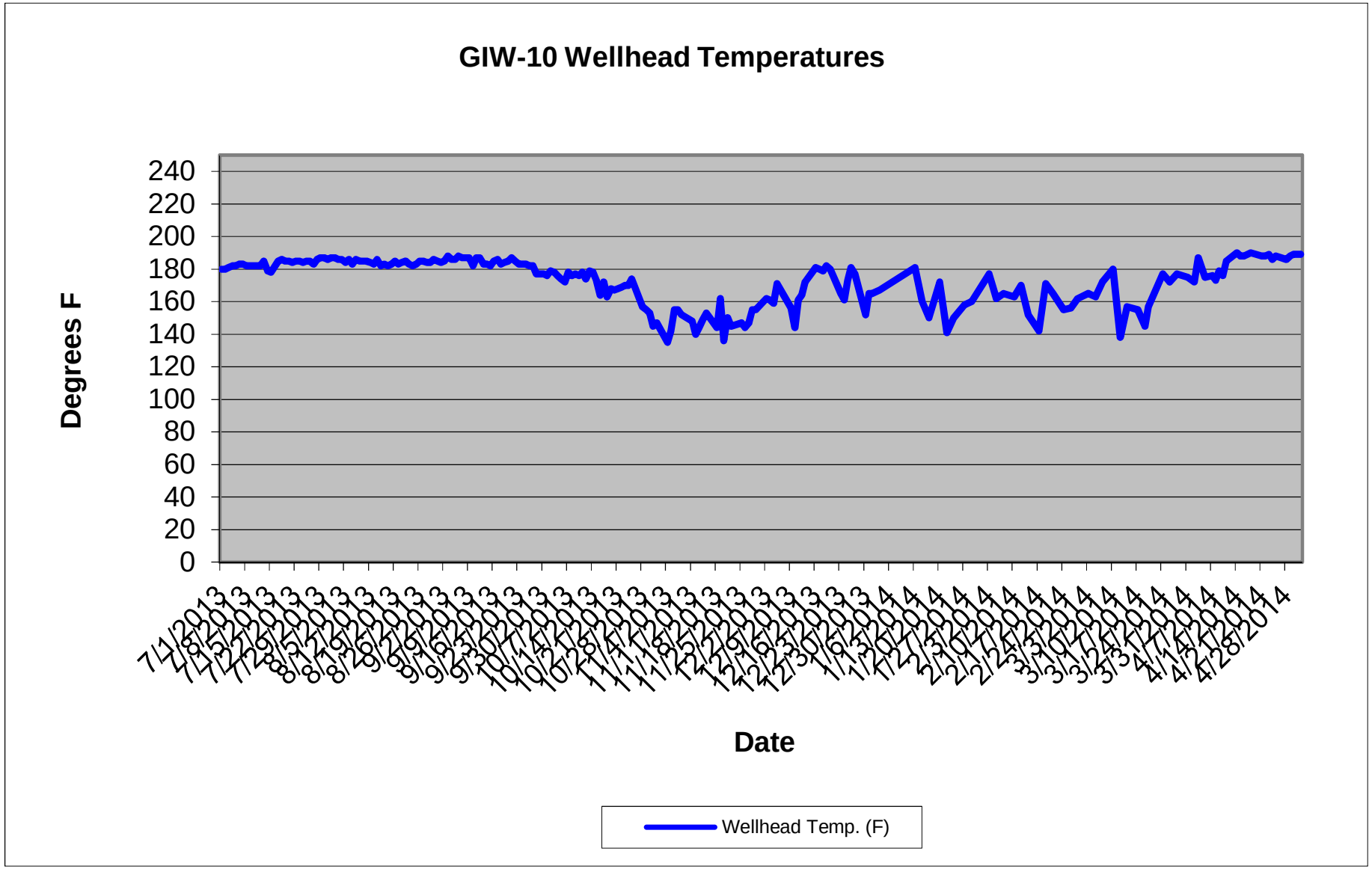
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-9 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
10/28/2013
11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-10 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
8/5/2013
8/12/2013
8/19/2013
8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
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11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
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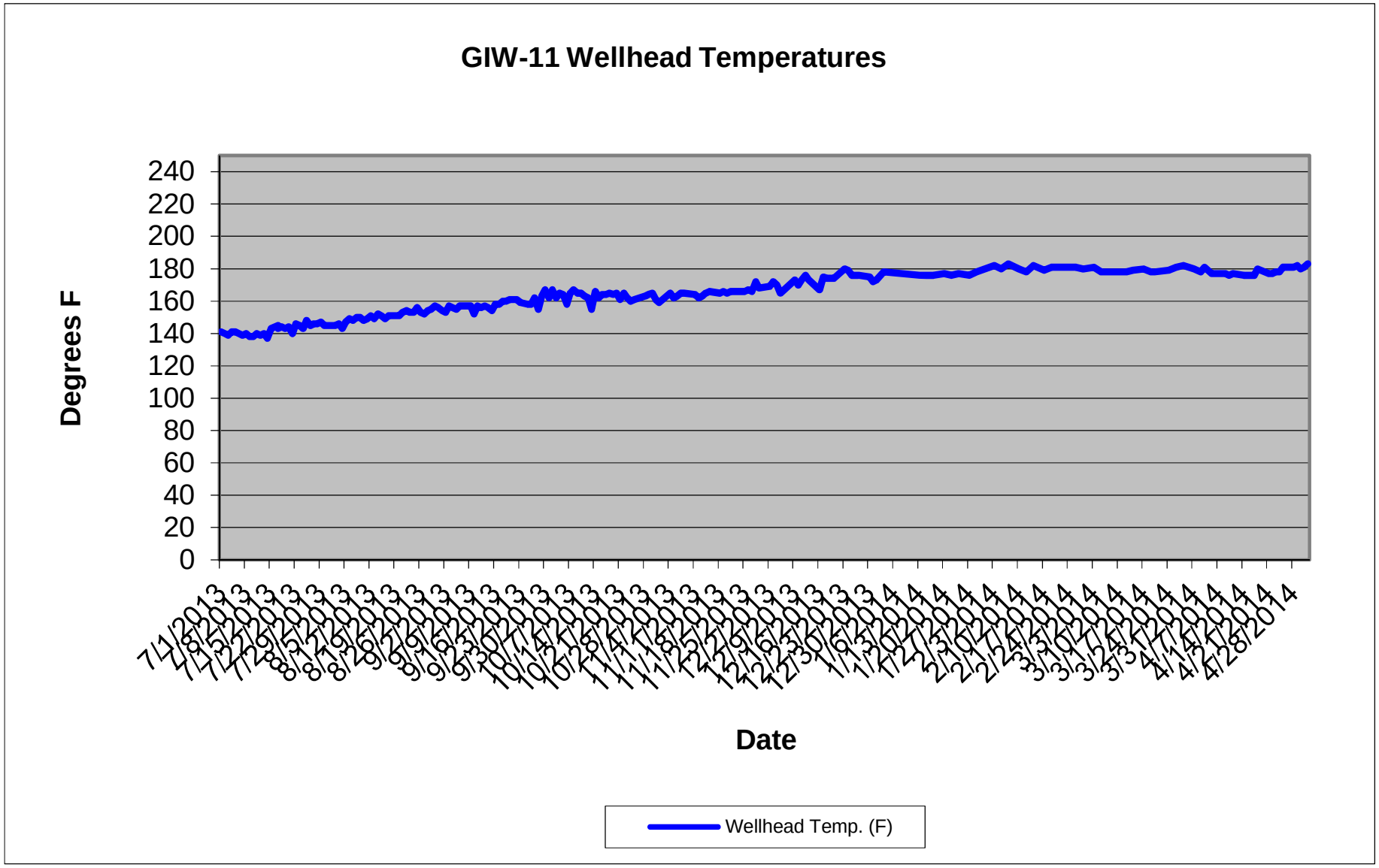
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)


GIW-11 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/4/2013
7/9/2013
7/14/2013
7/19/2013
7/24/2013
7/29/2013
8/3/2013
8/8/2013
8/13/2013
8/18/2013
8/23/2013
8/28/2013
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9/17/2013
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12/1/2013
12/6/2013
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12/21/2013
12/26/2013
12/31/2013
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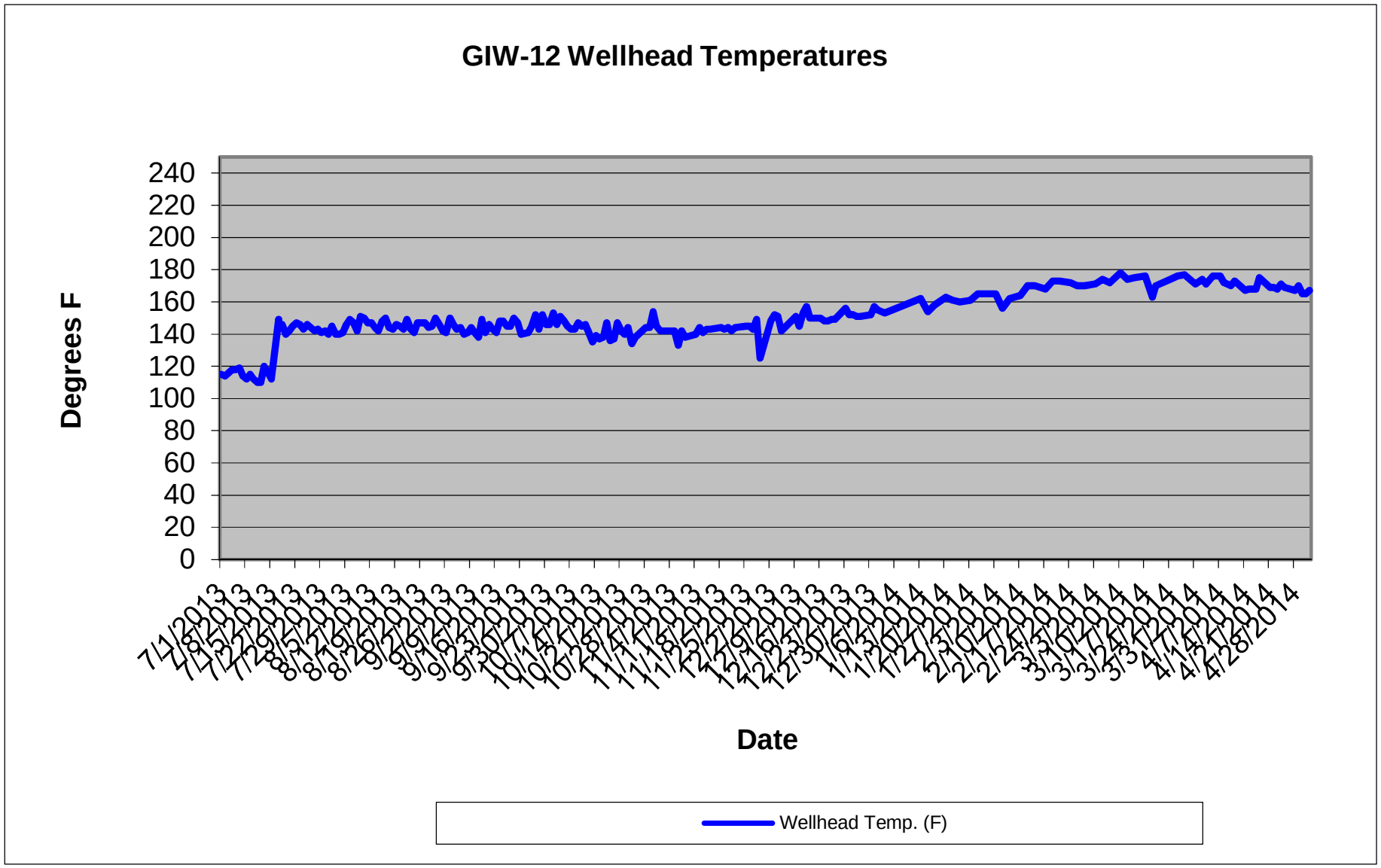
1/30/2014
2/4/2014
2/9/2014
2/14/2014
2/19/2014
2/24/2014
3/1/2014
3/6/2014
3/11/2014
3/16/2014
3/21/2014
3/26/2014
3/31/2014
4/5/2014
4/10/2014
4/15/2014
4/20/2014
4/25/2014
Date
Wellhead Temp. (F)


GIW-12 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/16/2013
7/31/2013
8/15/2013
8/30/2013
9/14/2013
9/29/2013
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10/29/2013
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1/12/2014
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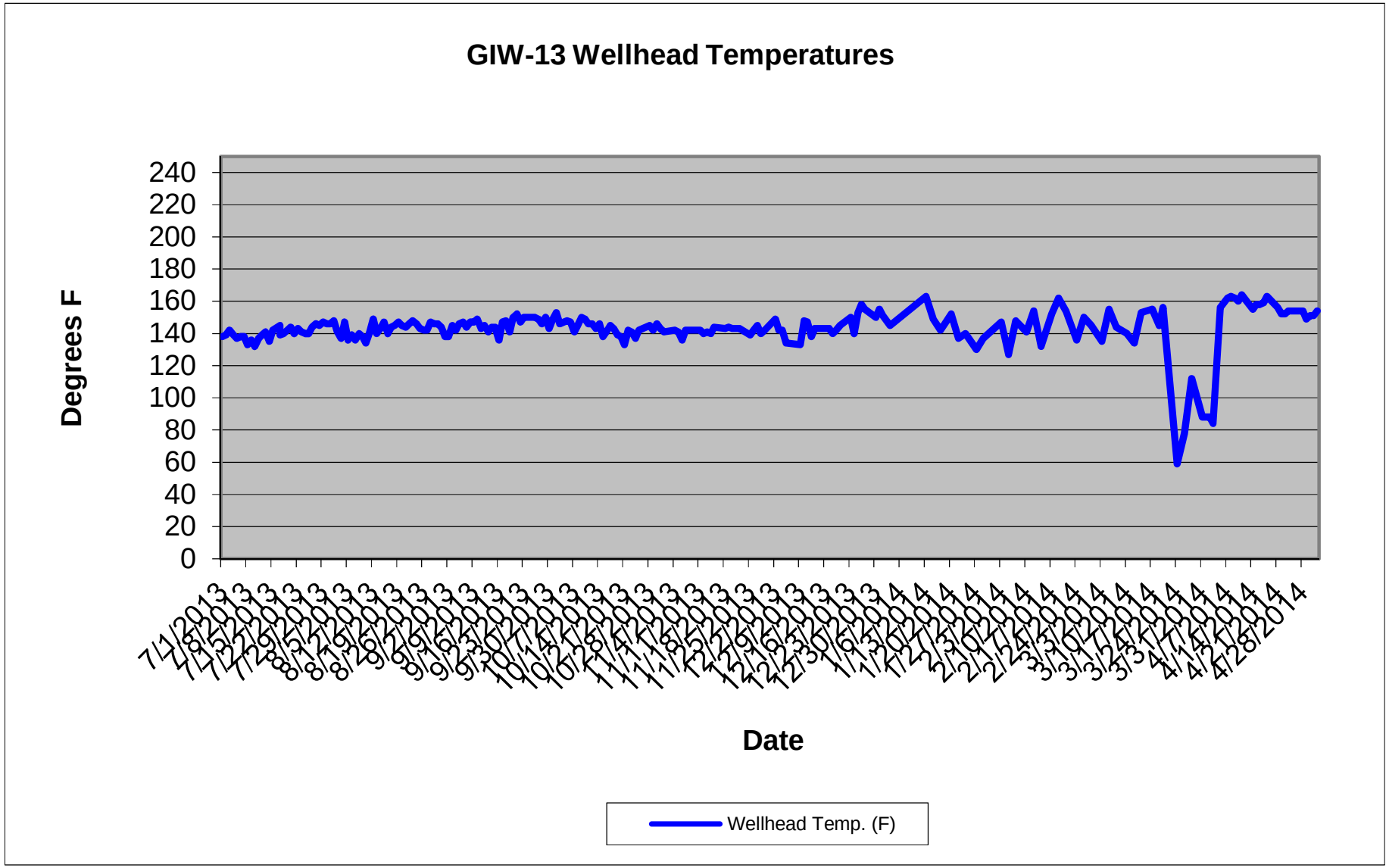
4/27/2014
Date
Wellhead Temp. (F)


GIW-13 Wellhead Temperatures
Degrees F
240
220
200
180
160
140
120
100
80
60
40
20
0
7/1/2013
7/8/2013
7/15/2013
7/22/2013
7/29/2013
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8/26/2013
9/2/2013
9/9/2013
9/16/2013
9/23/2013
9/30/2013
10/7/2013
10/14/2013
10/21/2013
10/28/2013
11/4/2013
11/11/2013
11/18/2013
11/25/2013
12/2/2013
12/9/2013
12/16/2013
12/23/2013
12/30/2013
1/6/2014
1/13/2014
1/20/2014
1/27/2014
2/3/2014
2/10/2014
2/17/2014
2/24/2014
3/3/2014
3/10/2014
3/17/2014
3/24/2014
3/31/2014
4/7/2014
4/14/2014
4/21/2014
4/28/2014
Date
Wellhead Temp. (F)