

Bridgeton Landfill, LLC

Weekly Data Submittals

**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

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**

January 7, 2014

Commentary on Data

Attachment A – Leachate Levels in Leachate Collection Sumps

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

An upgrade to install a progressive-cavity pump is planned for LCS-3 for the first quarter of 2014.

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. The option of utilizing a progressive-cavity pump at this location is being evaluated.

Excluding LCS-3 and -4B, leachate collection sumps appear to be operating properly with measured leachate levels below the required pumping levels where measurements can be obtained.

Attachment B – Temperature Monitoring Probe Analytical Charts

The following TMPs indicated consistent or lower temperature profiles than previous week(s): TMP-2,-3,-4,-5, -6,-7,-9, -10, -11, -13, and -14.

TMPs -1 and -12 show a slight increase in temperatures from the previous week(s).

The measurements in some of the TMPs show a slight increase in resistivity. Maintenance is planned in the next few weeks to clean the plug in slots and the plug of the metering device.

TMP-8 irregular readings are due to the resistance of the thermocouple at 80 ft.

Attachment C – Gas Interceptor Wellhead Temperature Graphs

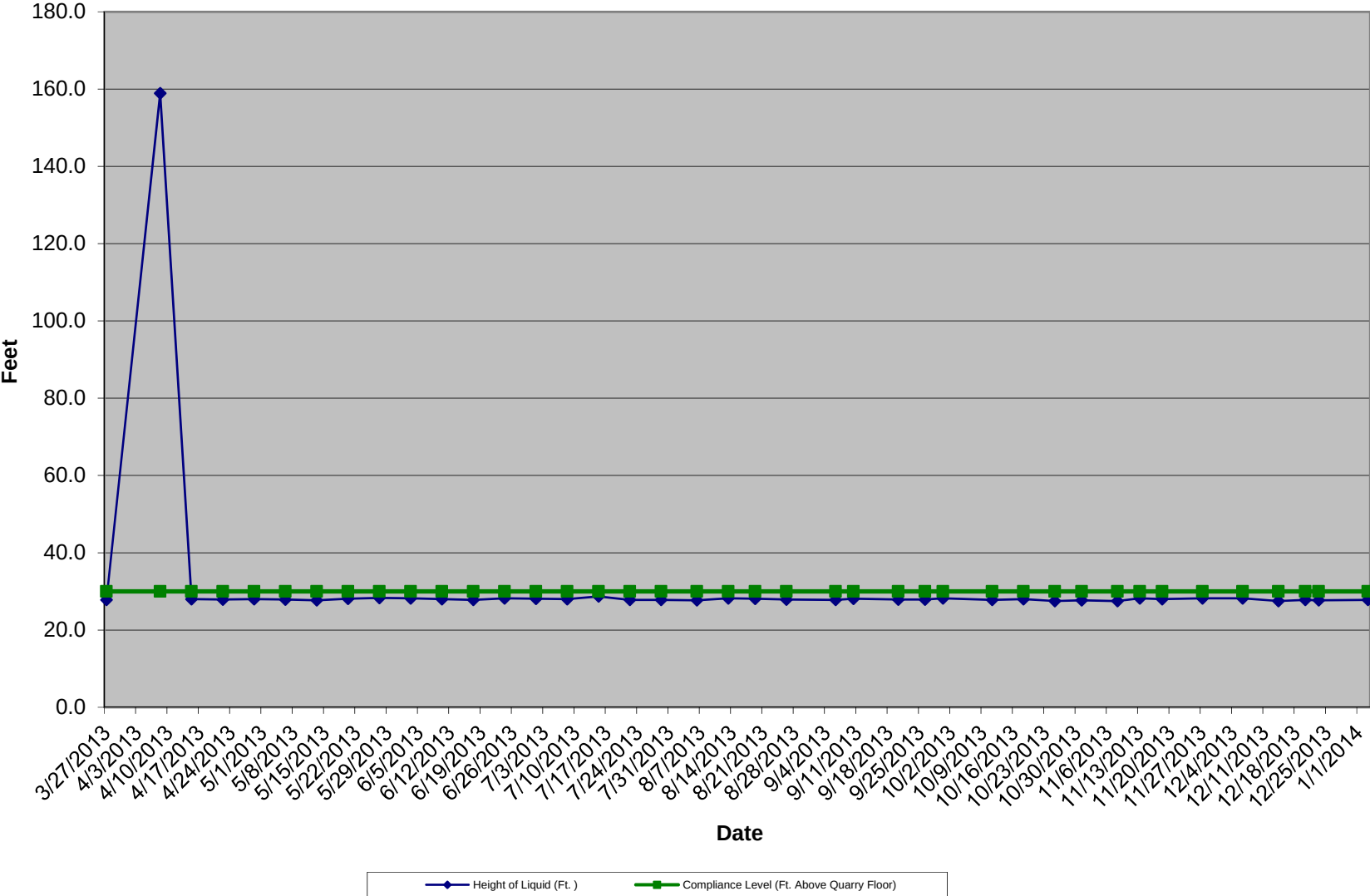
The lower seasonal ambient temperatures seem to be creating more fluctuation in wellhead gas temperatures. Only GIW-1, GIW-3 and GIW-11 show sense warming trend.

The water circulation cooling loop is currently installed in GIW-4. The cooling point has realized temporary down time due to the freezing temperatures over the last few weeks. The fluctuation in temperature reflects the intermittent operation of the cooling loop in GIW-4.

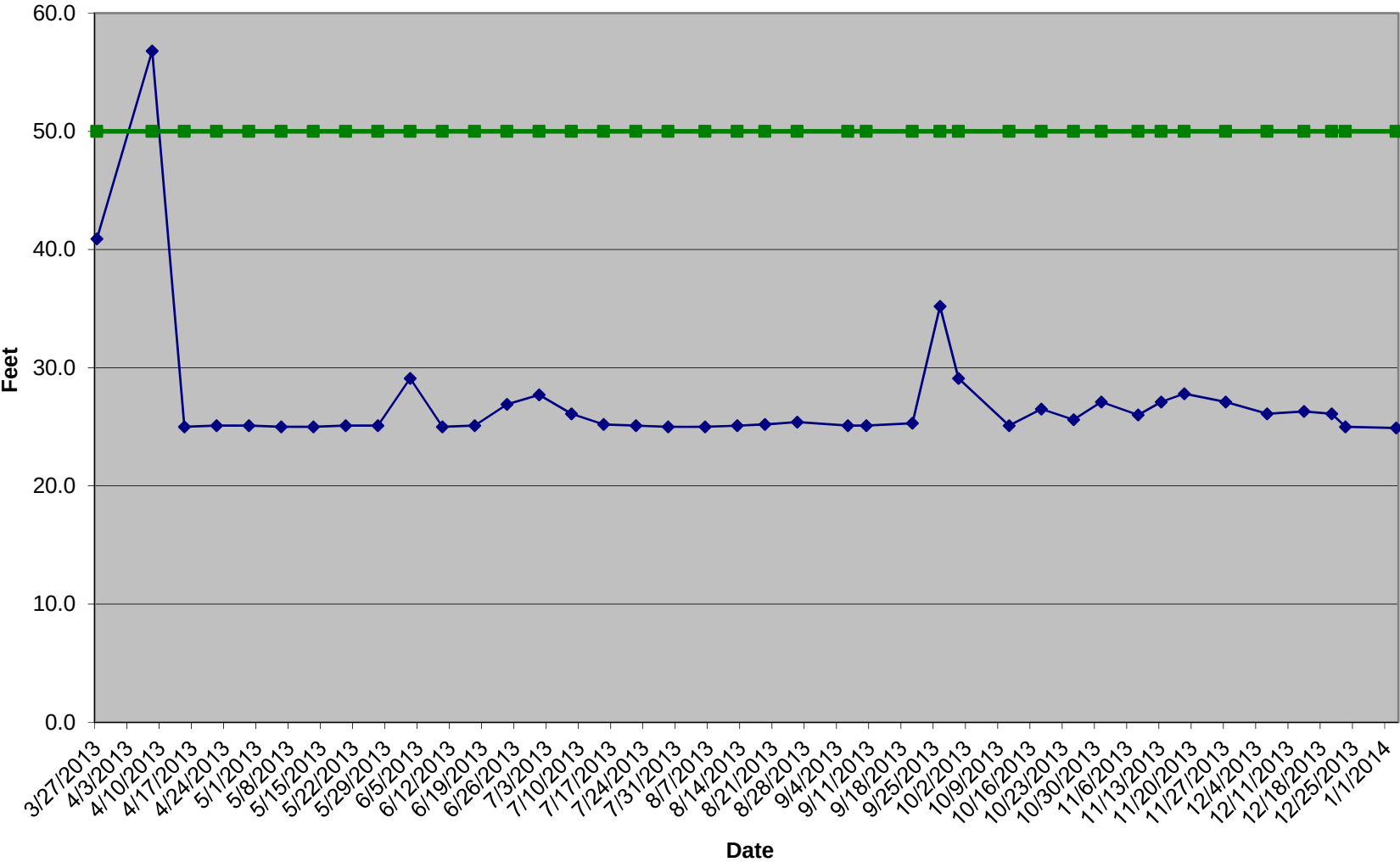
ATTACHMENT A

LEACHATE LEVELS IN LEACHATE COLLECTION SUMPS

LCS-2D Liquid Level Above Quarry Floor

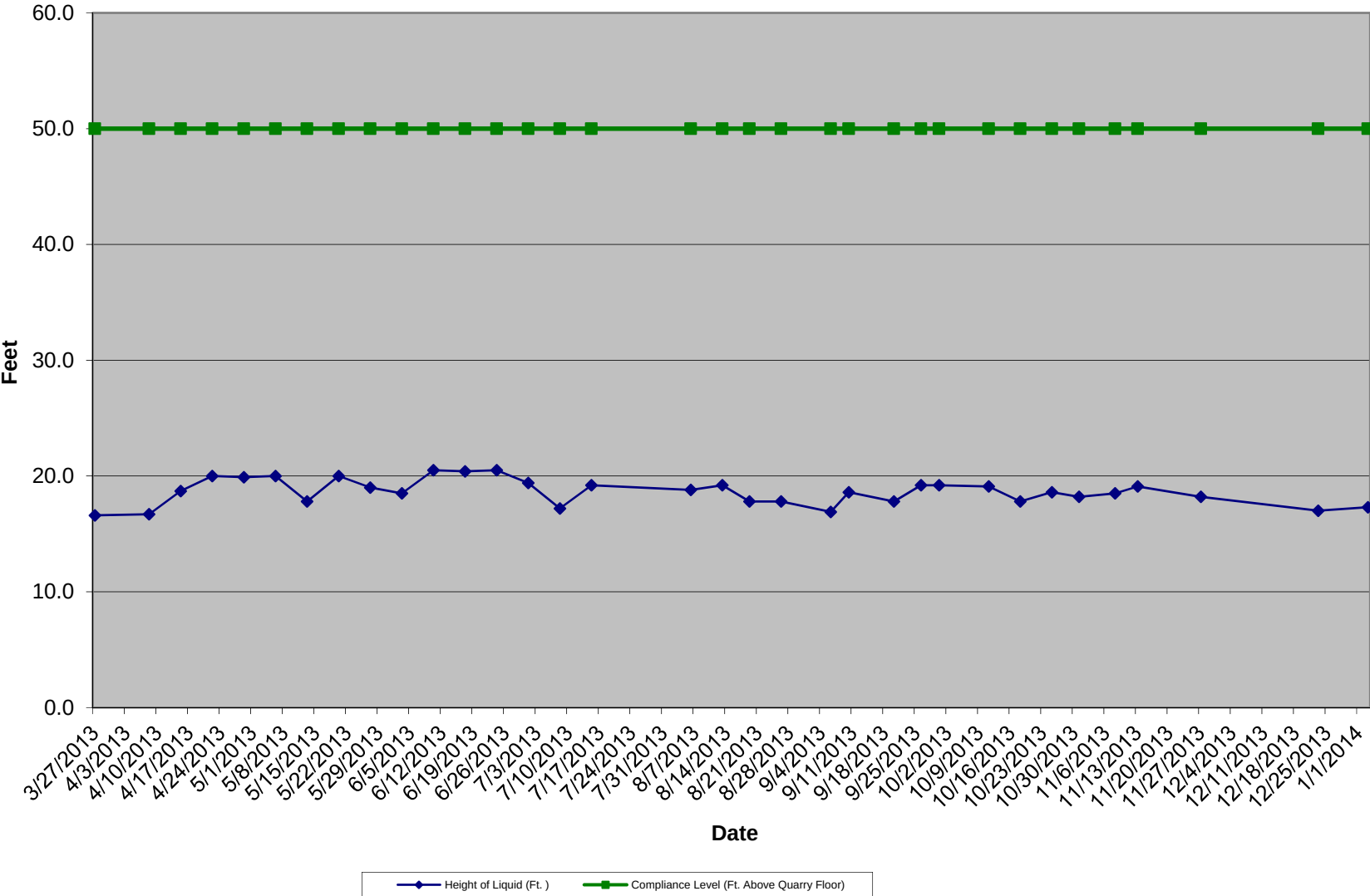


LCS-5A Liquid Level Above Quarry Floor



—◆— Height of Liquid (Ft.) —■— Compliance Level (Ft. Above Quarry Floor)

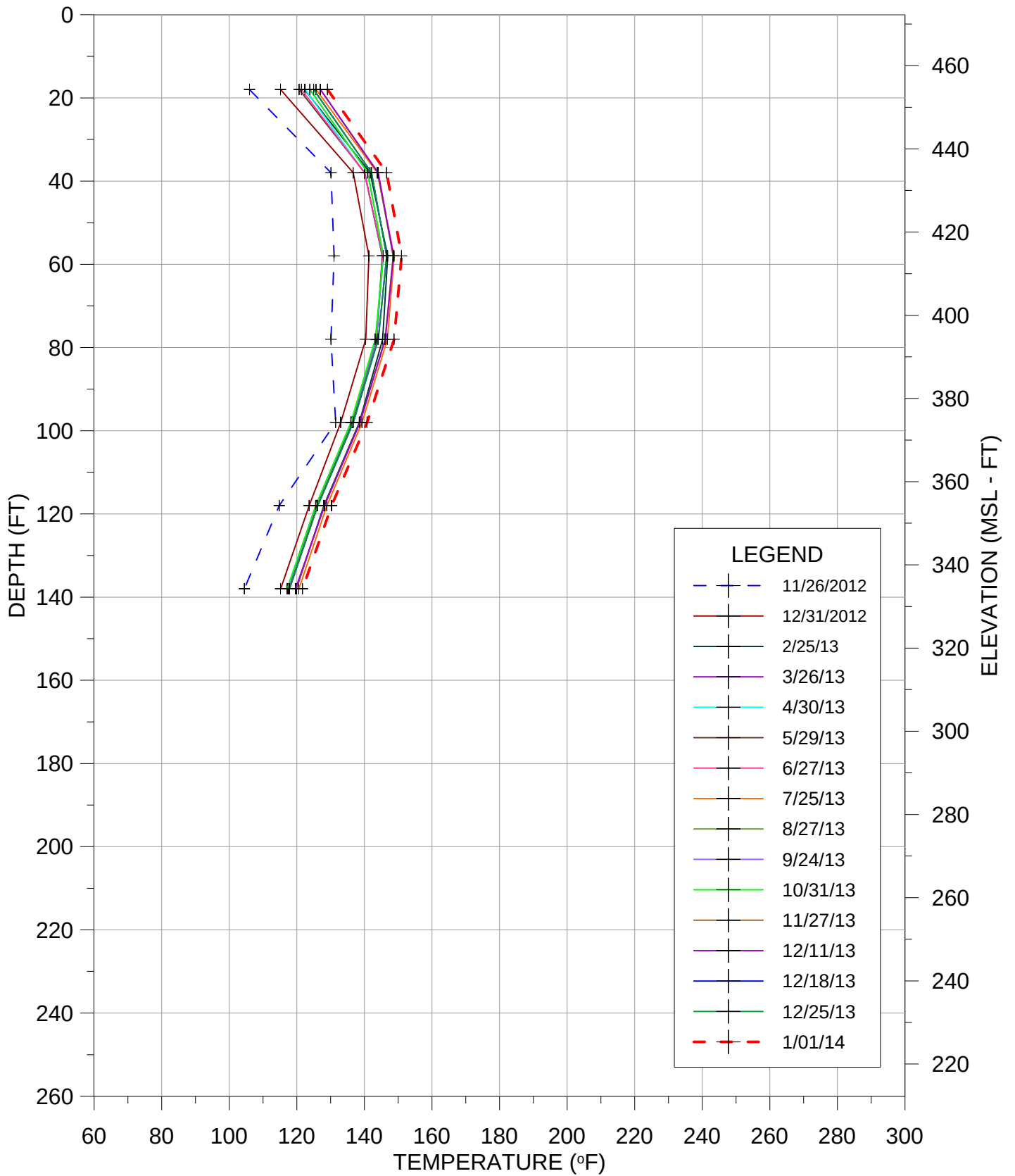
LCS-6B Liquid Level Above Quarry Floor



ATTACHMENT B

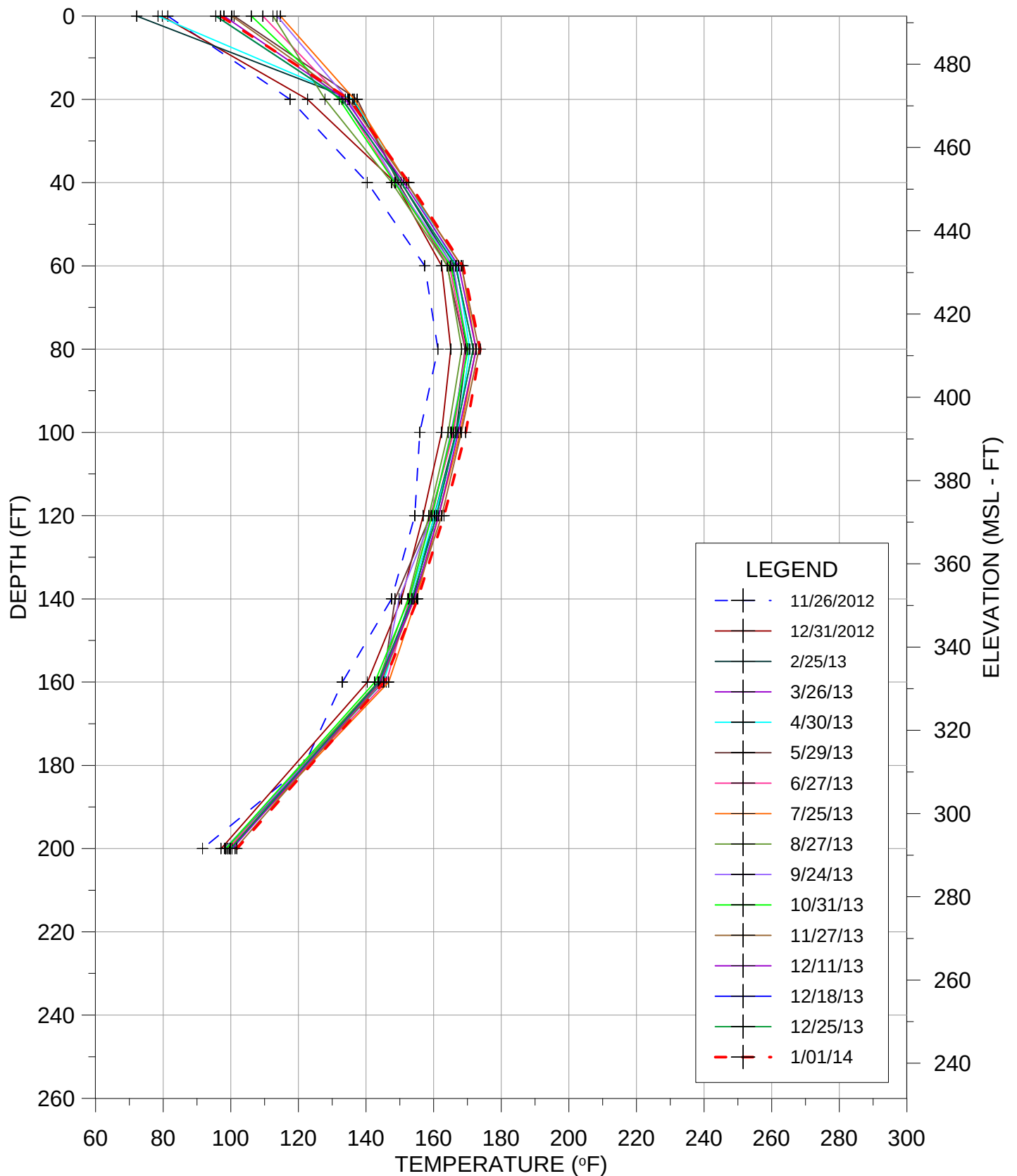
TEMPERATURE MONITORING PROBE ANALYTICAL CHARTS

TMP-1



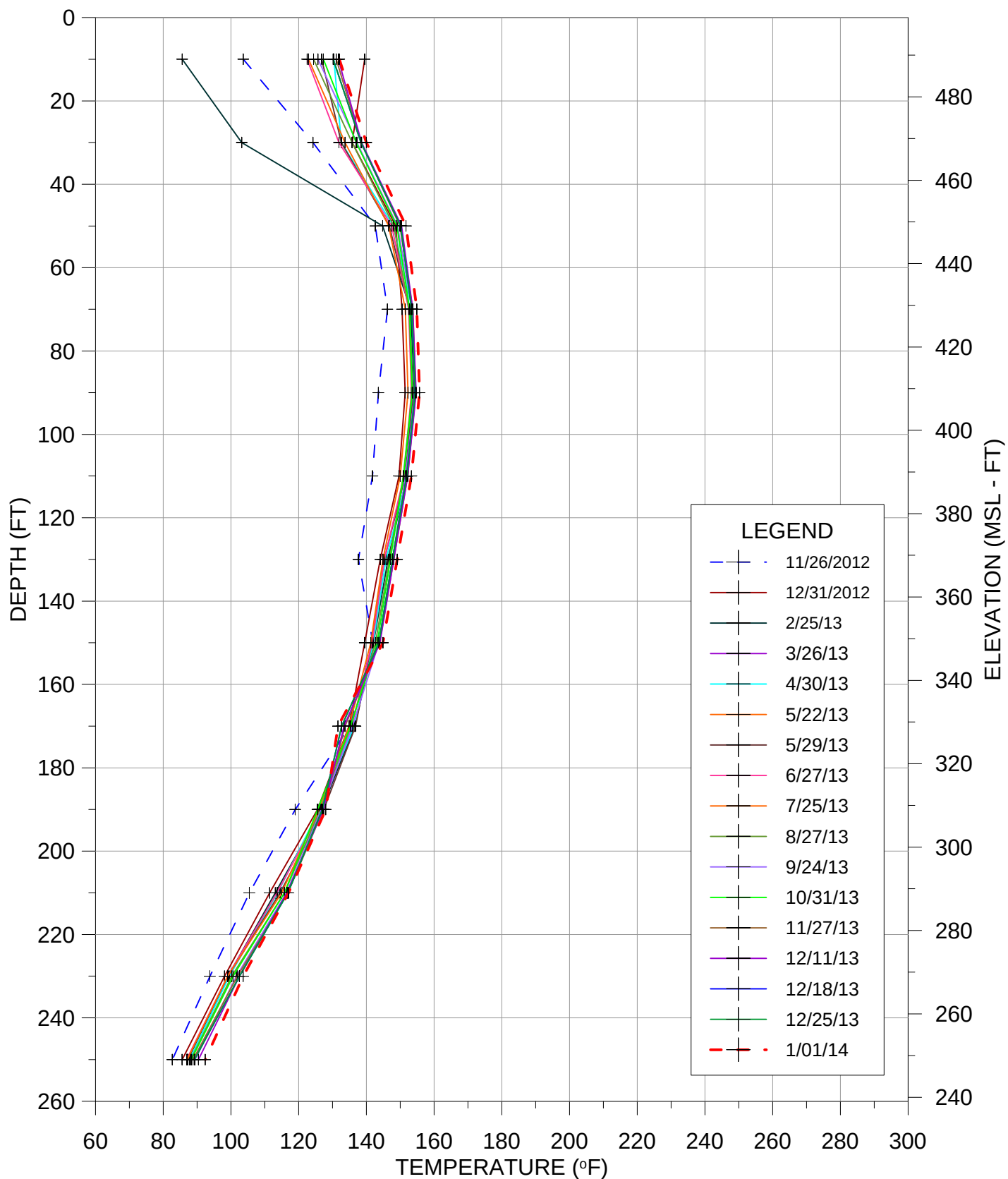
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-2



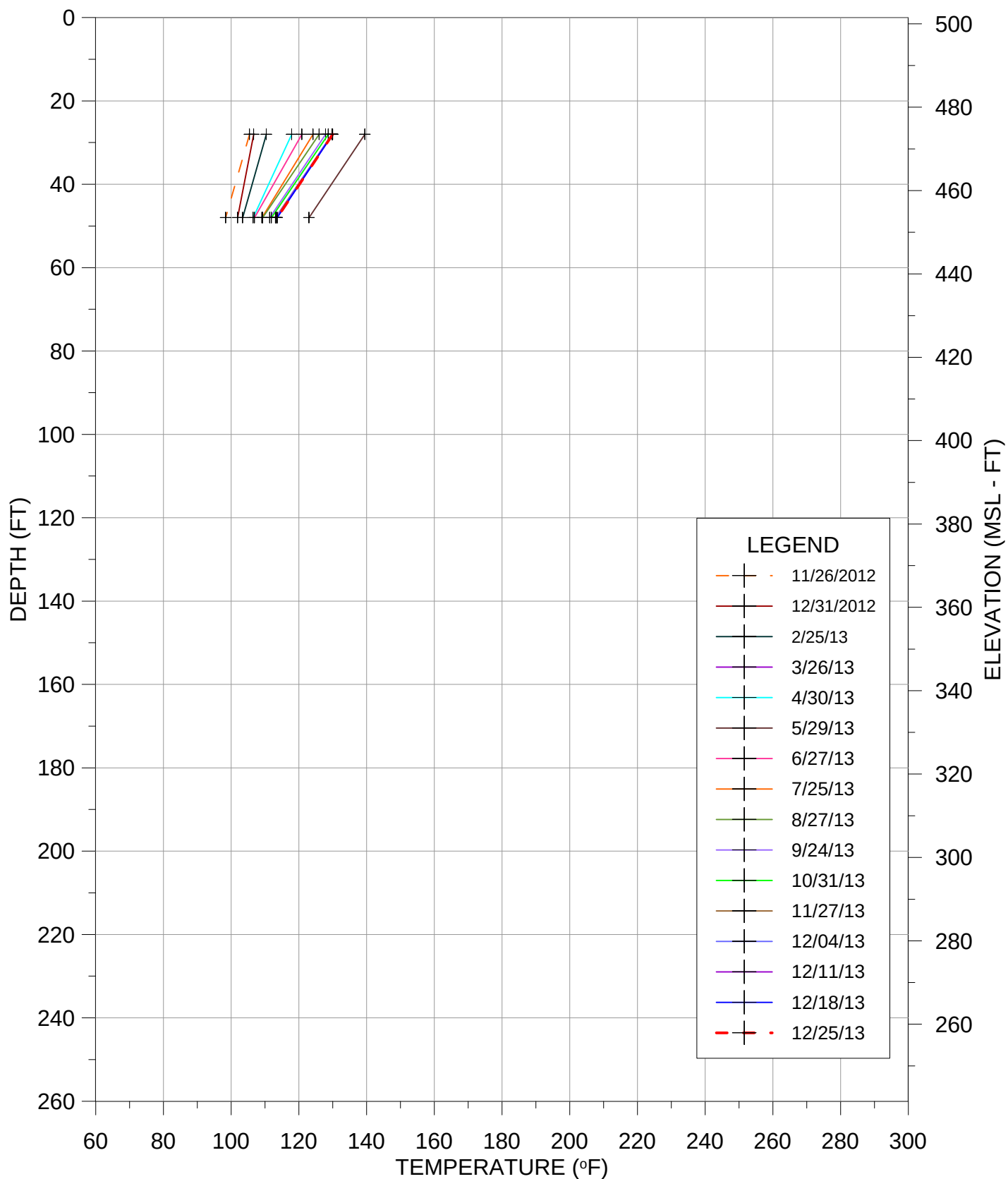
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-3



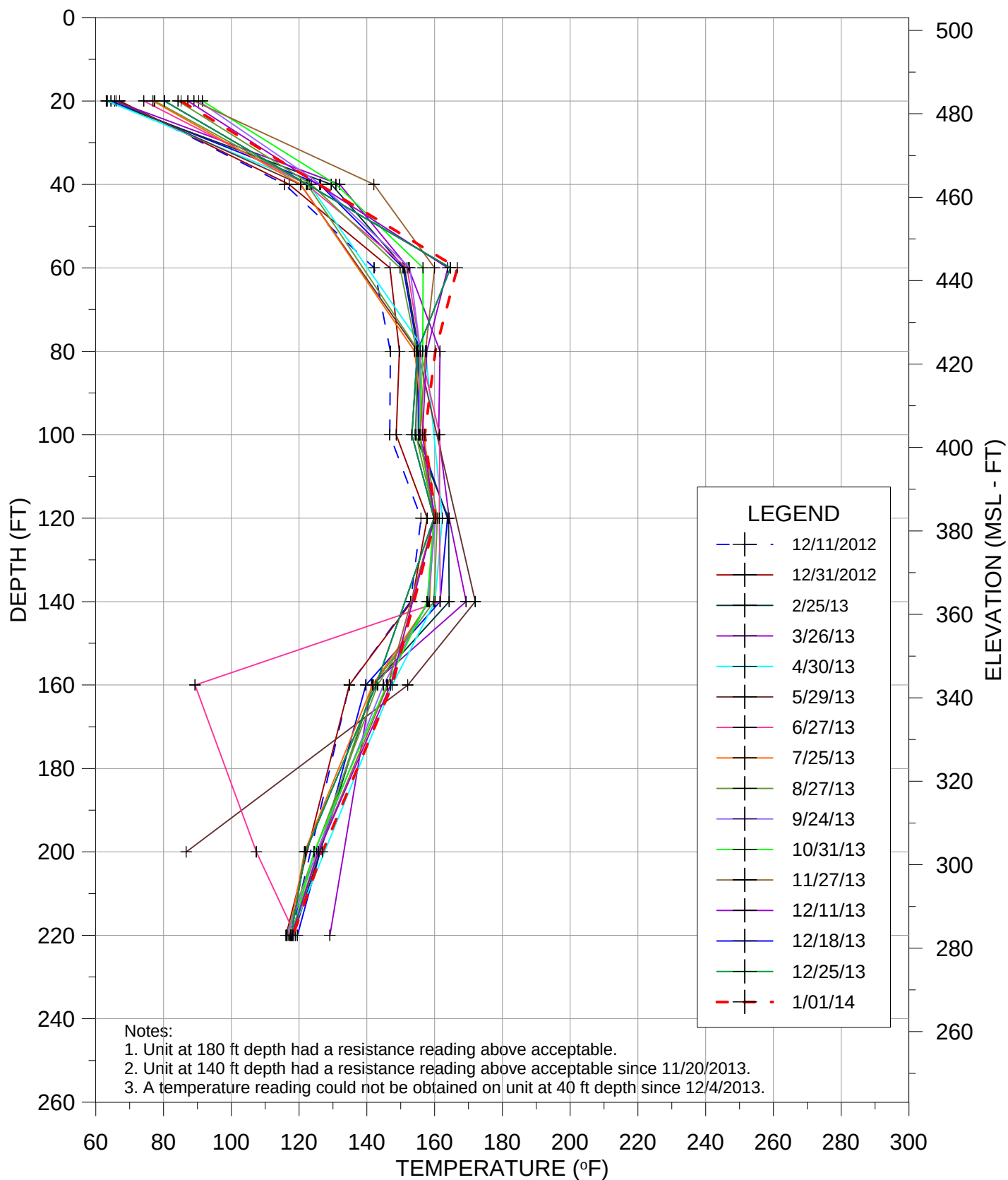
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-4

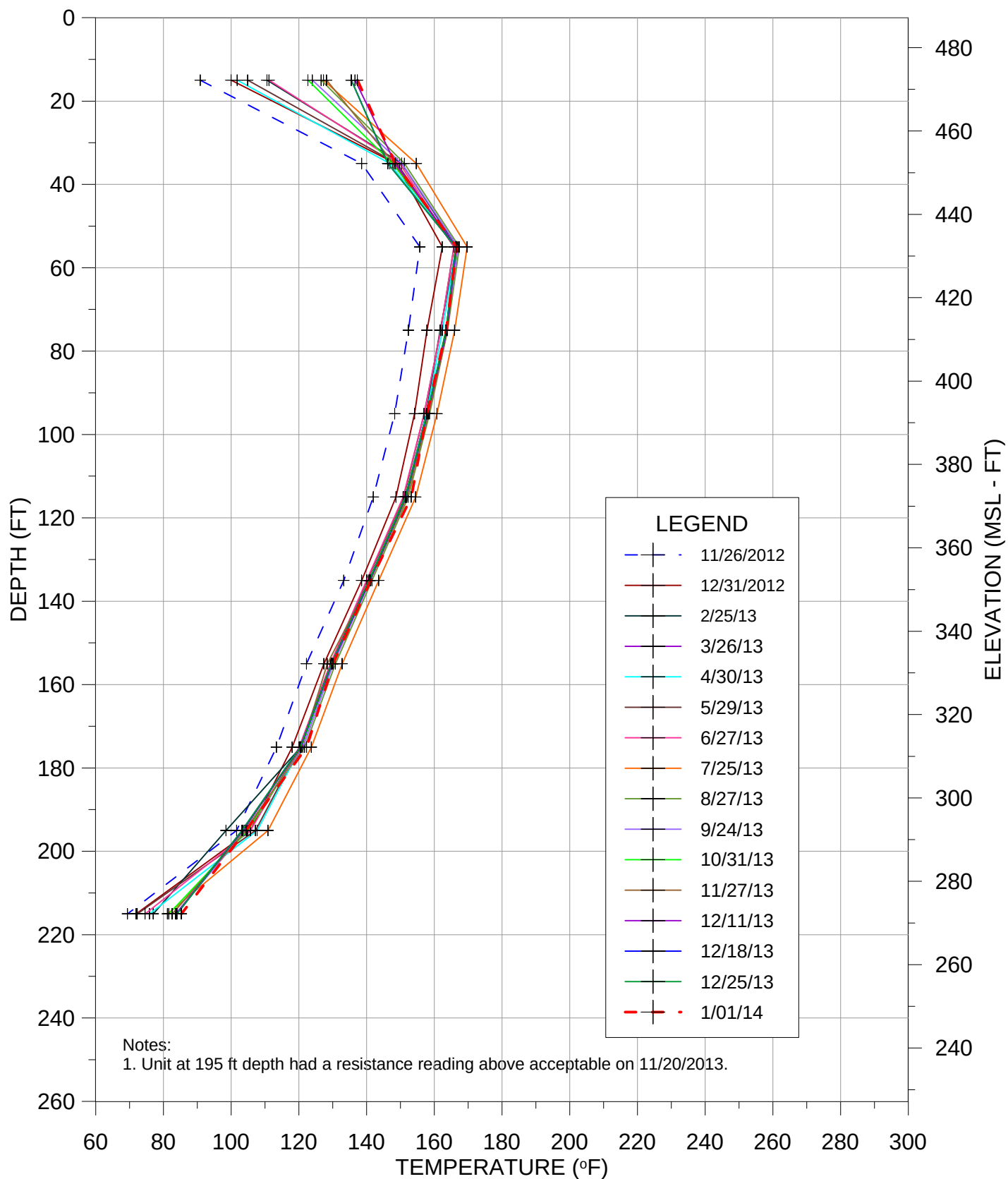


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-5

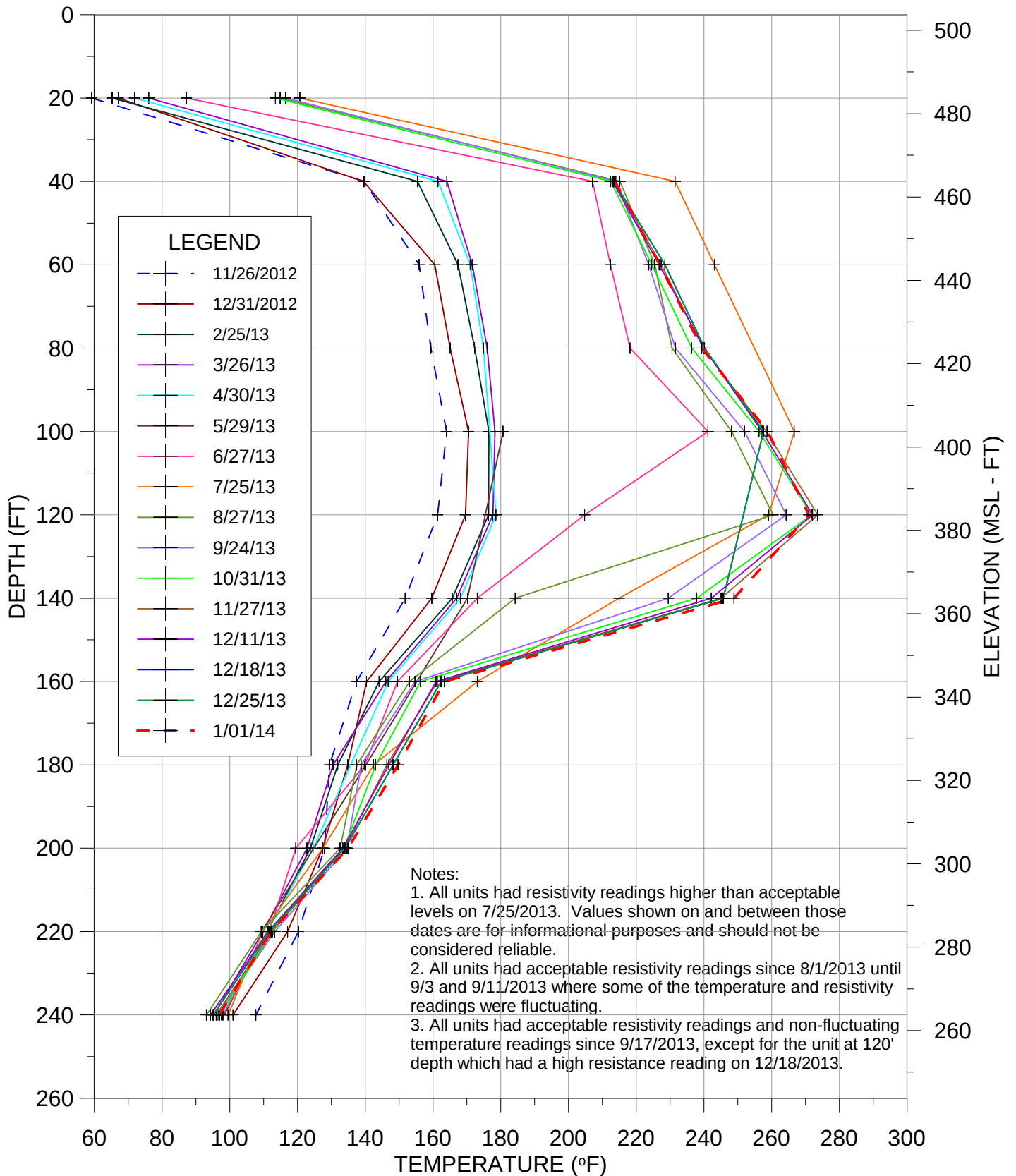


TMP-6

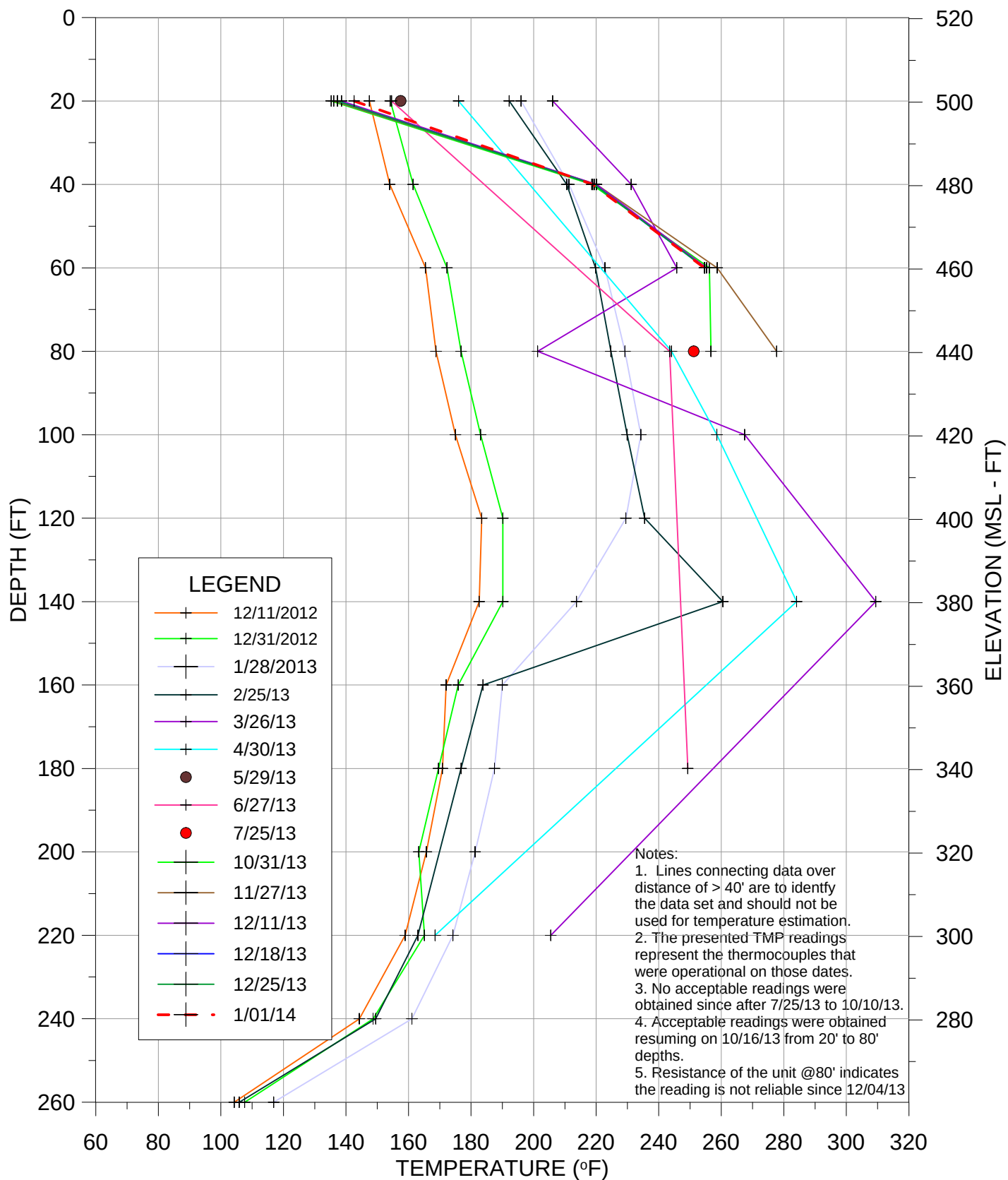


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-7R

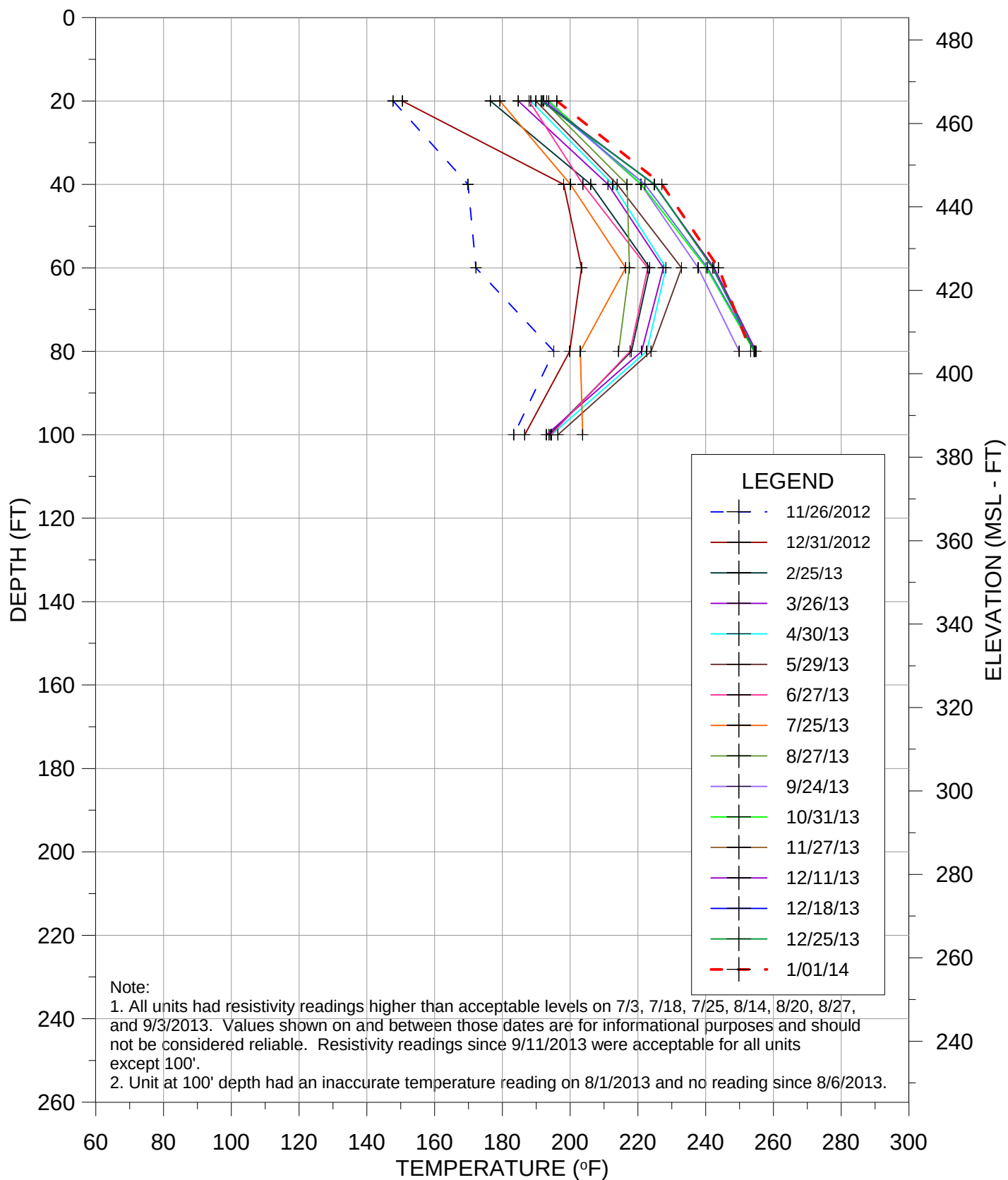


TMP-8

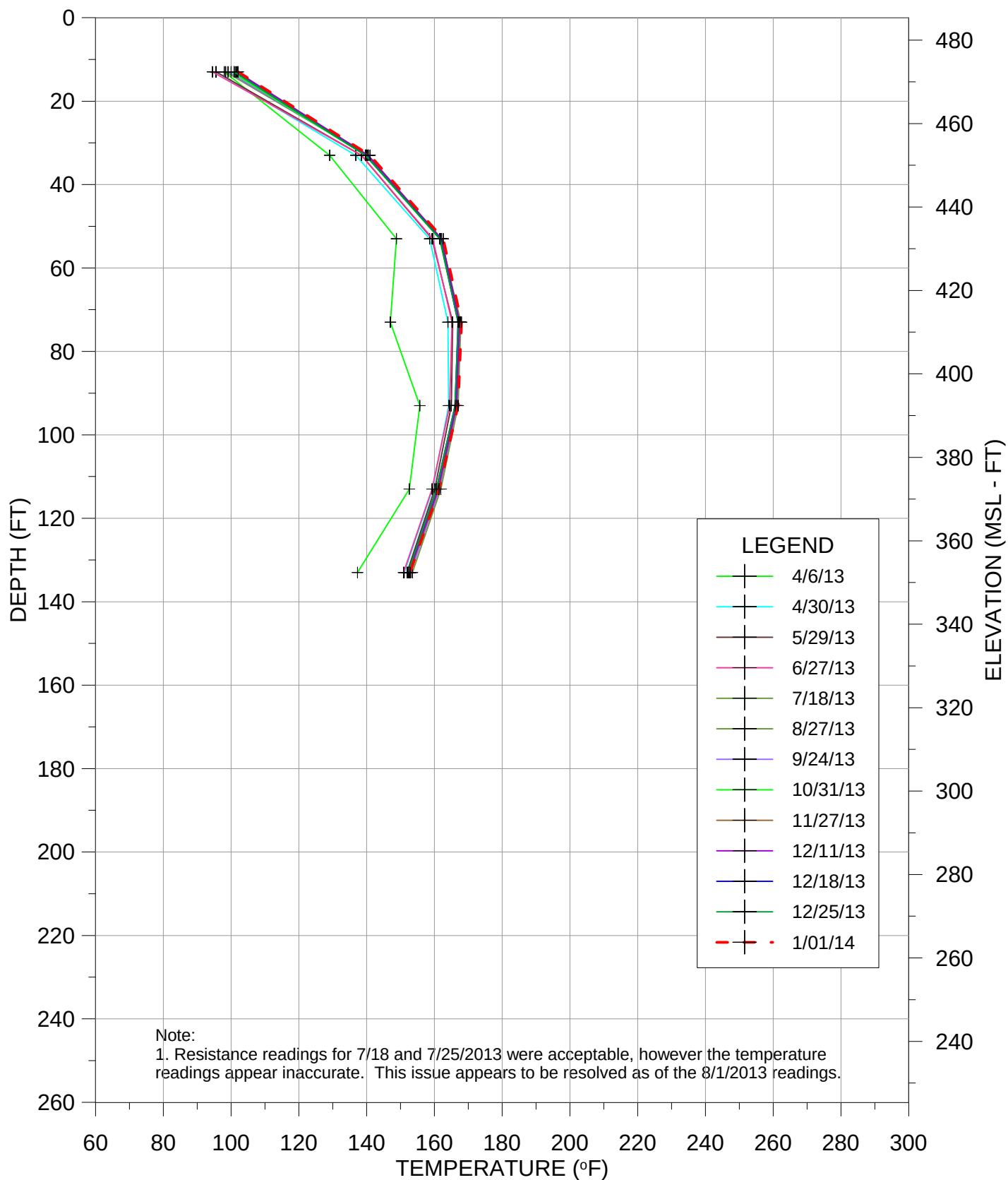


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-9

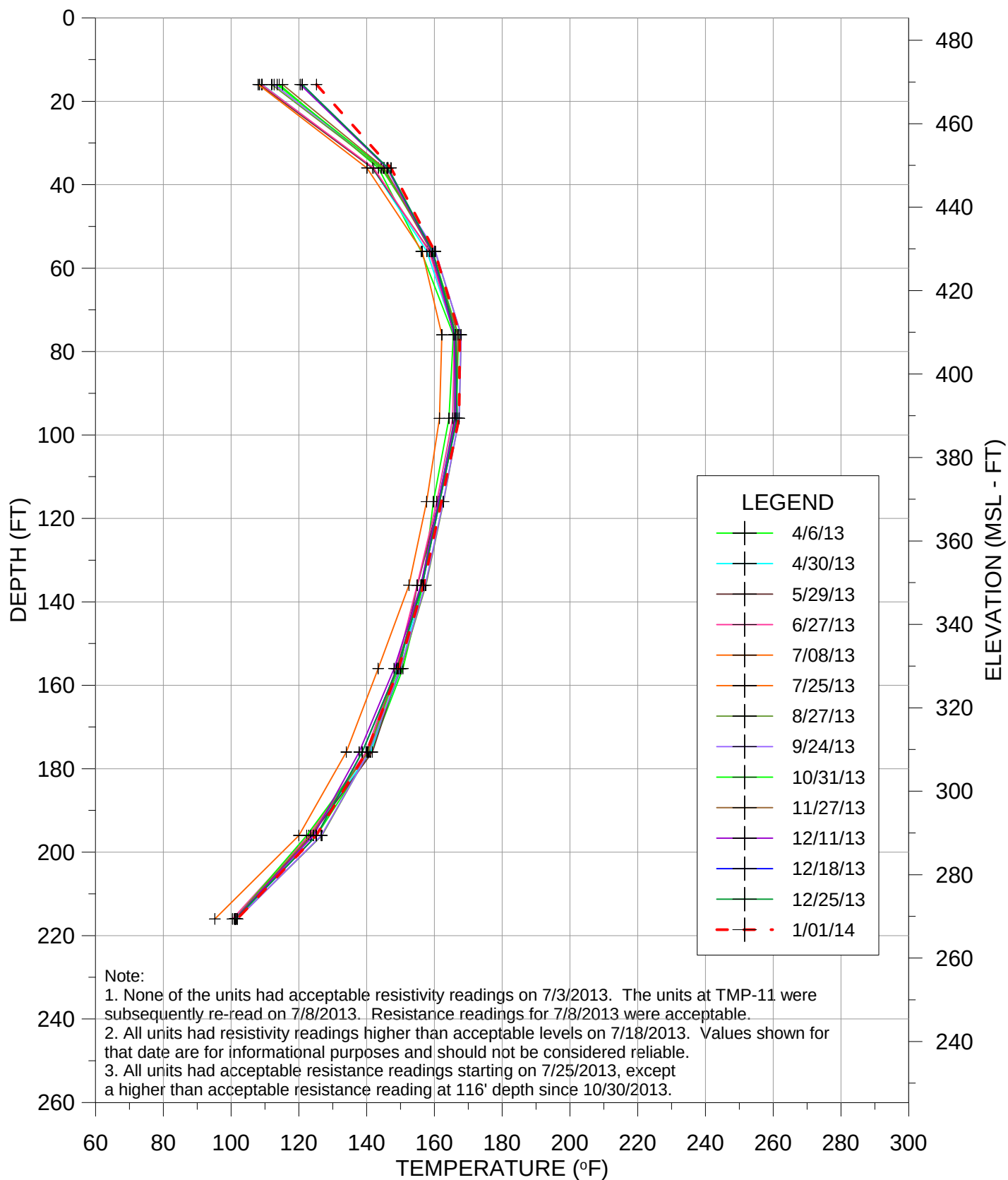


TMP-10



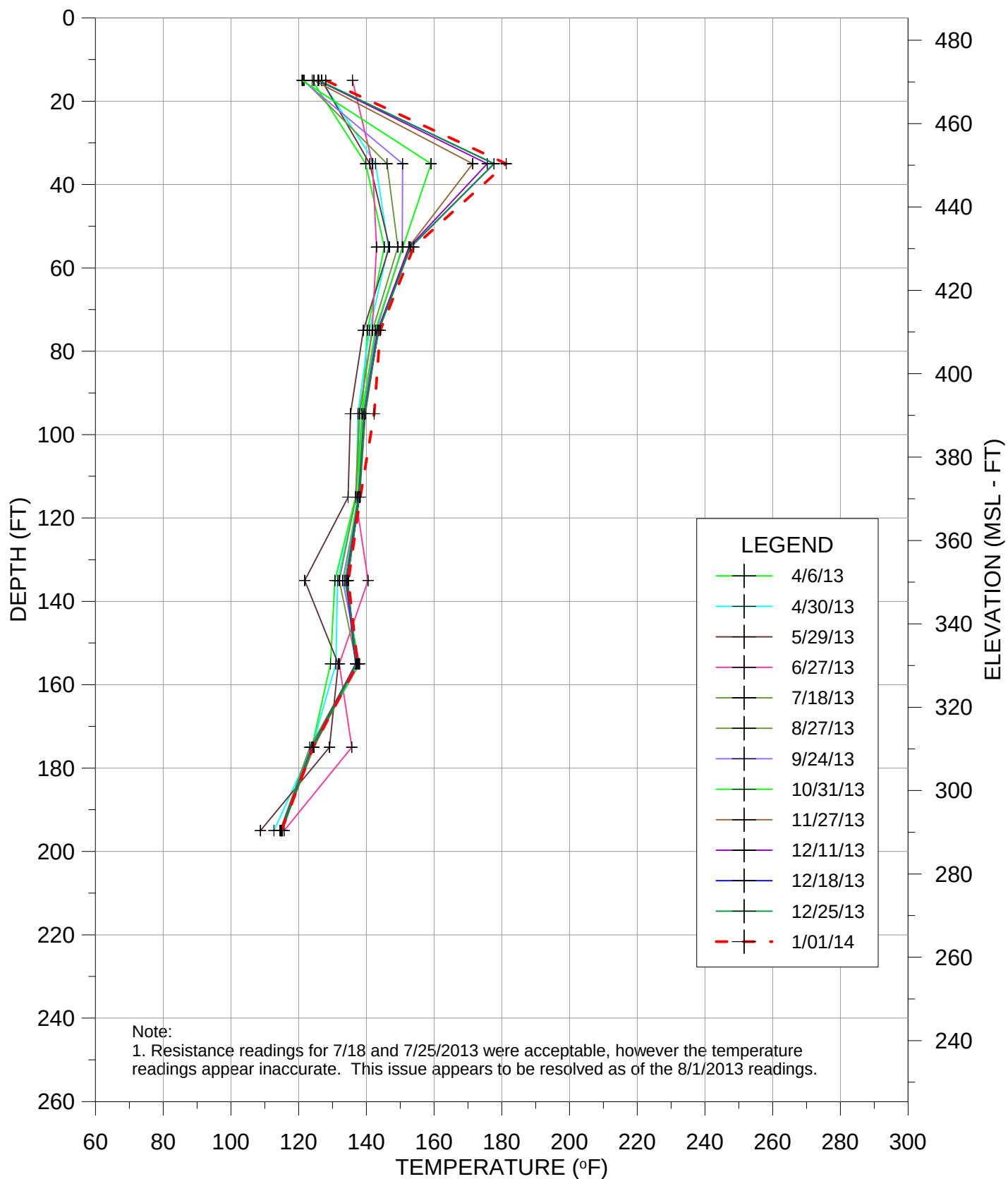
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

TMP-11

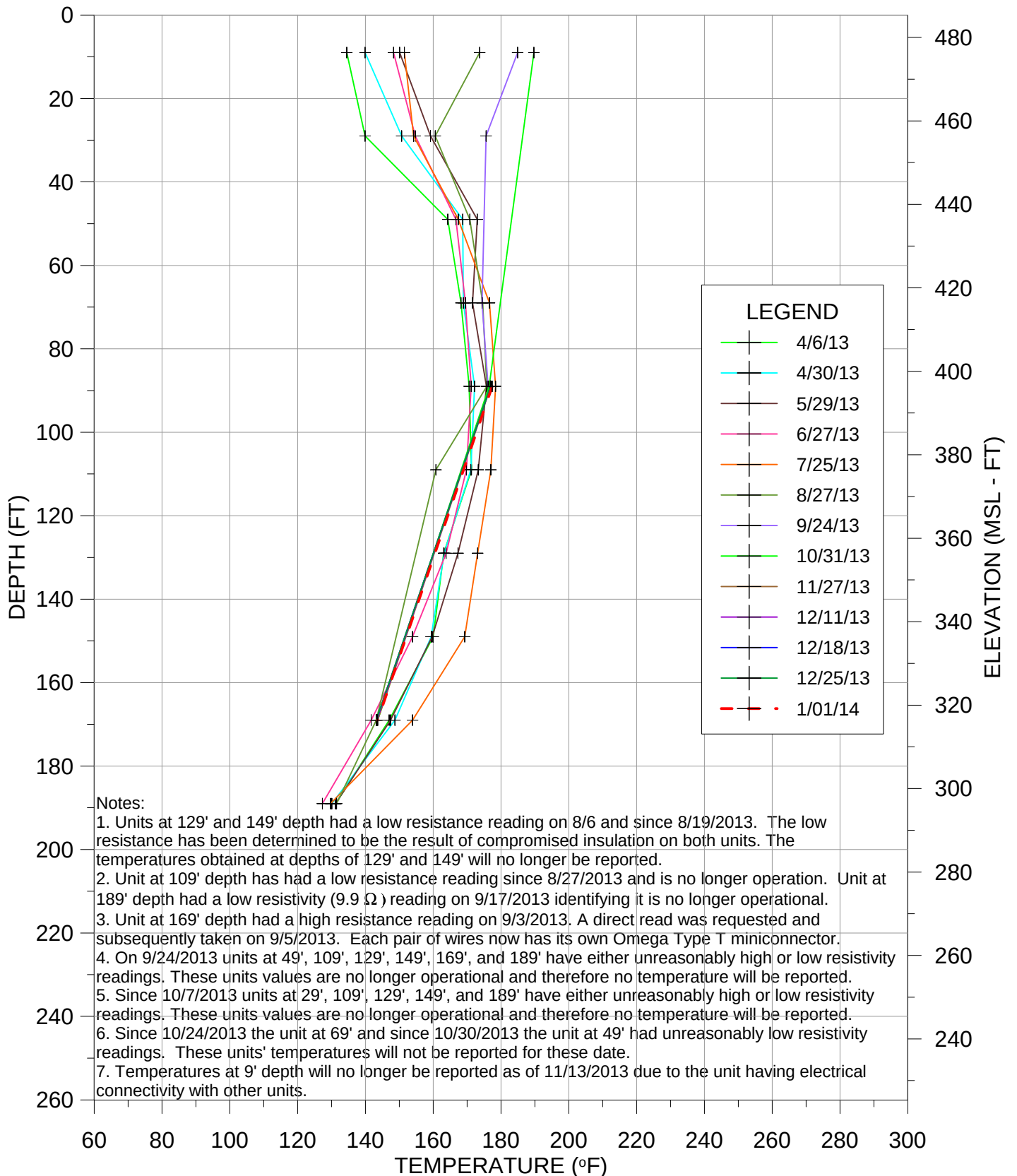


TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

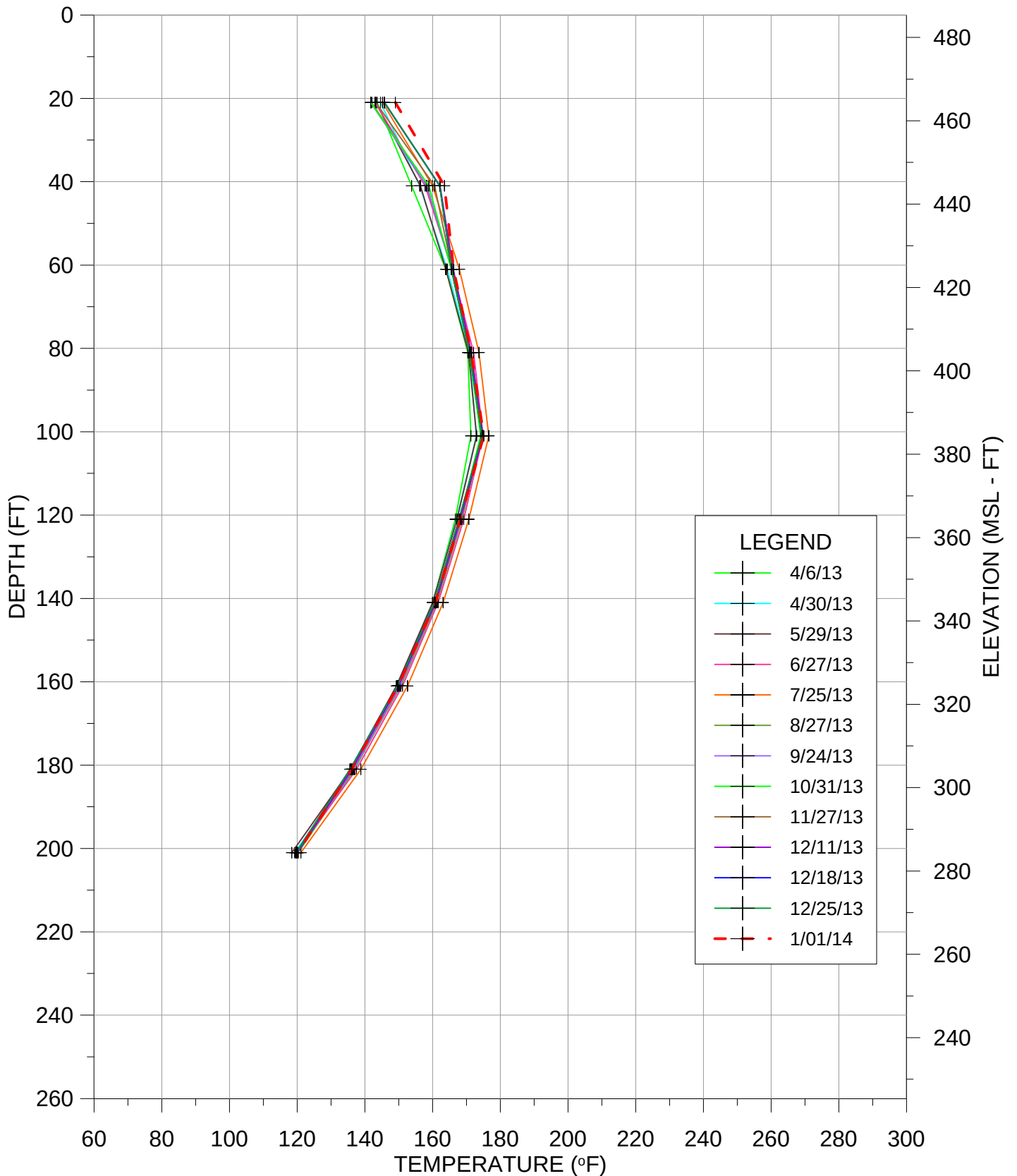
TMP-12



TMP-13

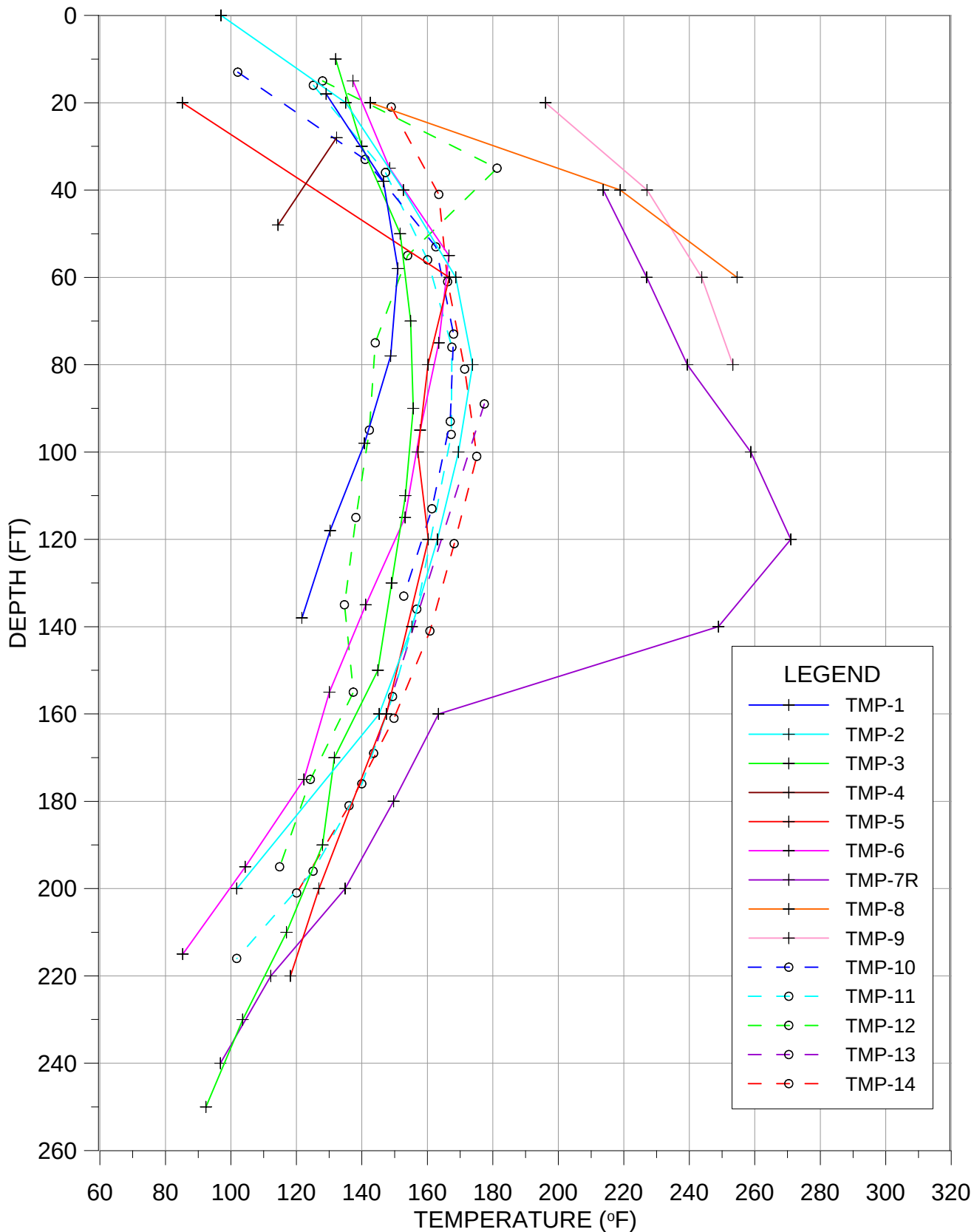


TMP-14



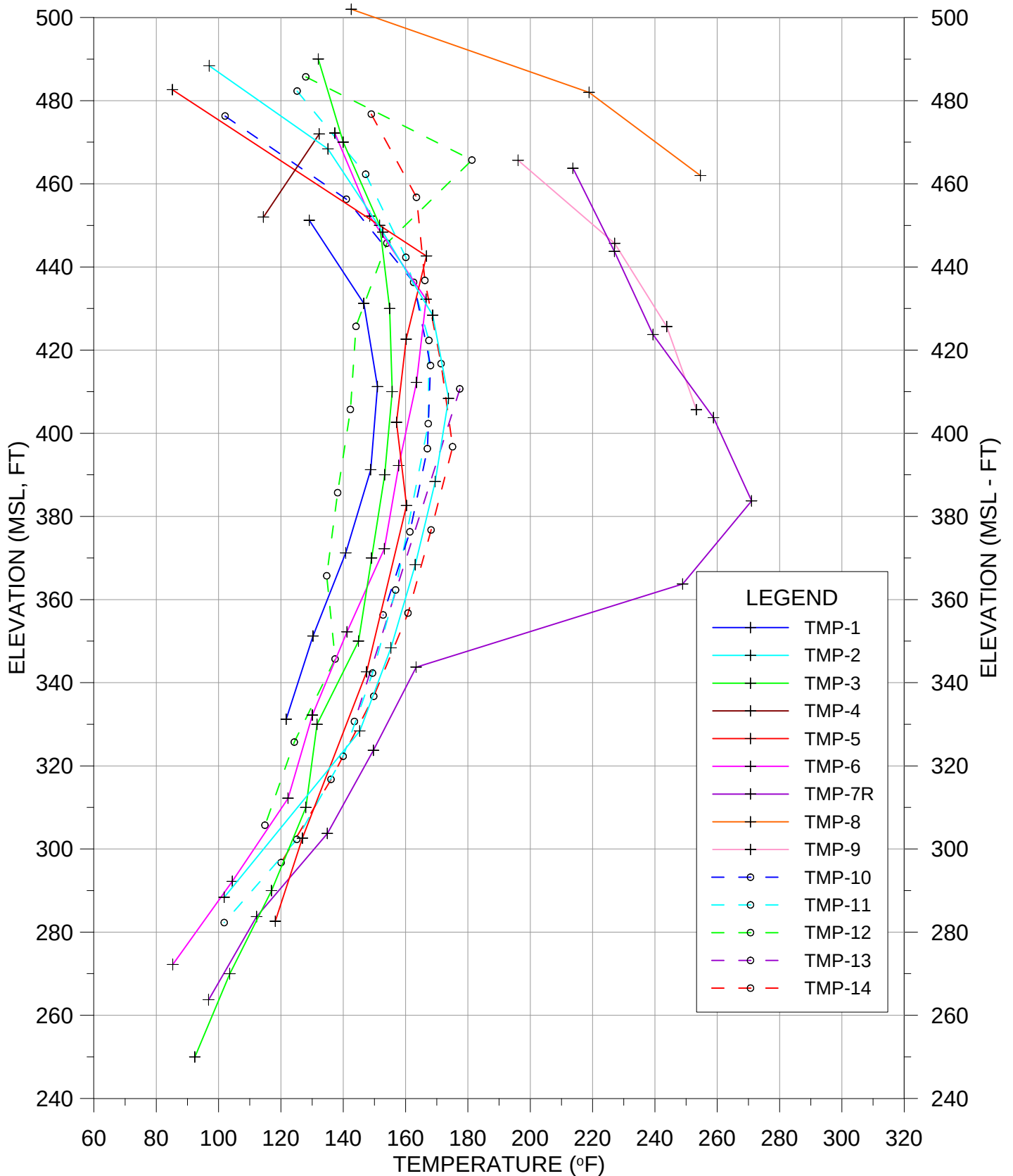
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

01/01/2014 -DEPTH



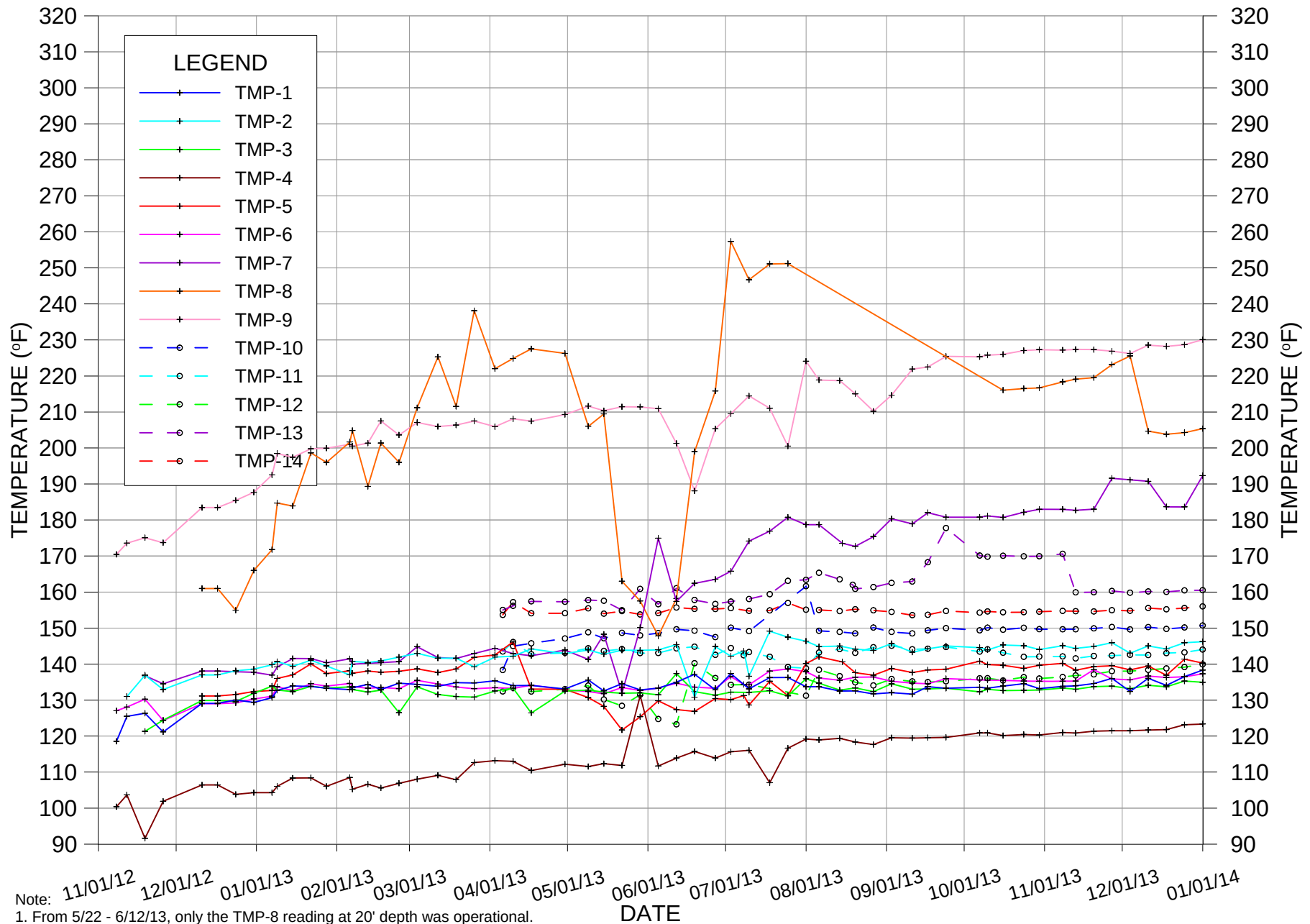
TEMPERATURE VS DEPTH
BRIDGETON LANDFILL

01/01/2014 - ELEVATION



TEMPERATURE VS ELEVATION
BRIDGETON LANDFILL

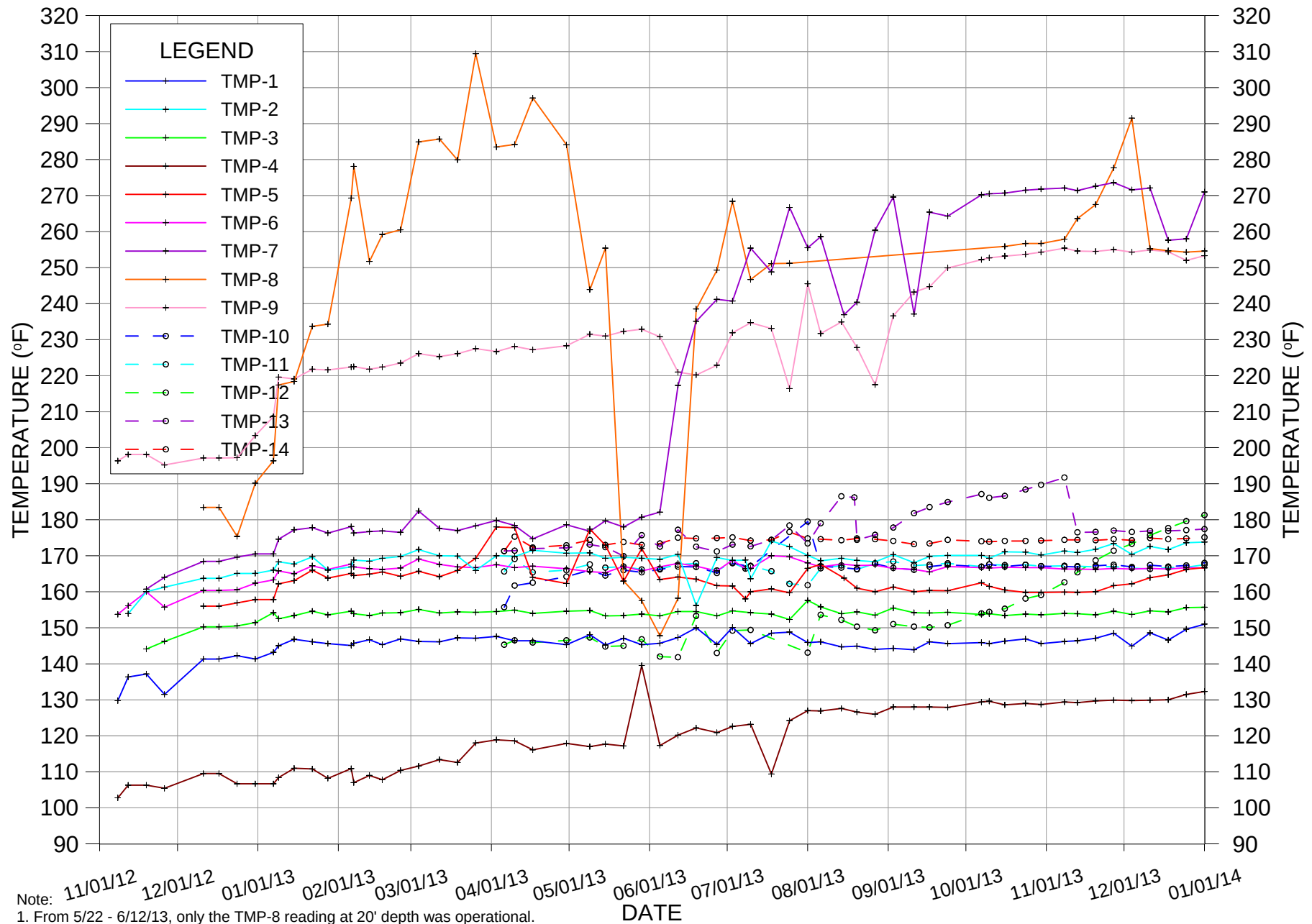
AVERAGE TEMPERATURES



- Note: 11/01/12 12/01/12 01/01/13 02/01/13 03/01/13 04/01/13 05/01/13 06/01/13 07/01/13 08/01/13 09/01/13 10/01/13 11/01/13 12/01/13 01/01/14
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

MAXIMUM TEMPERATURES



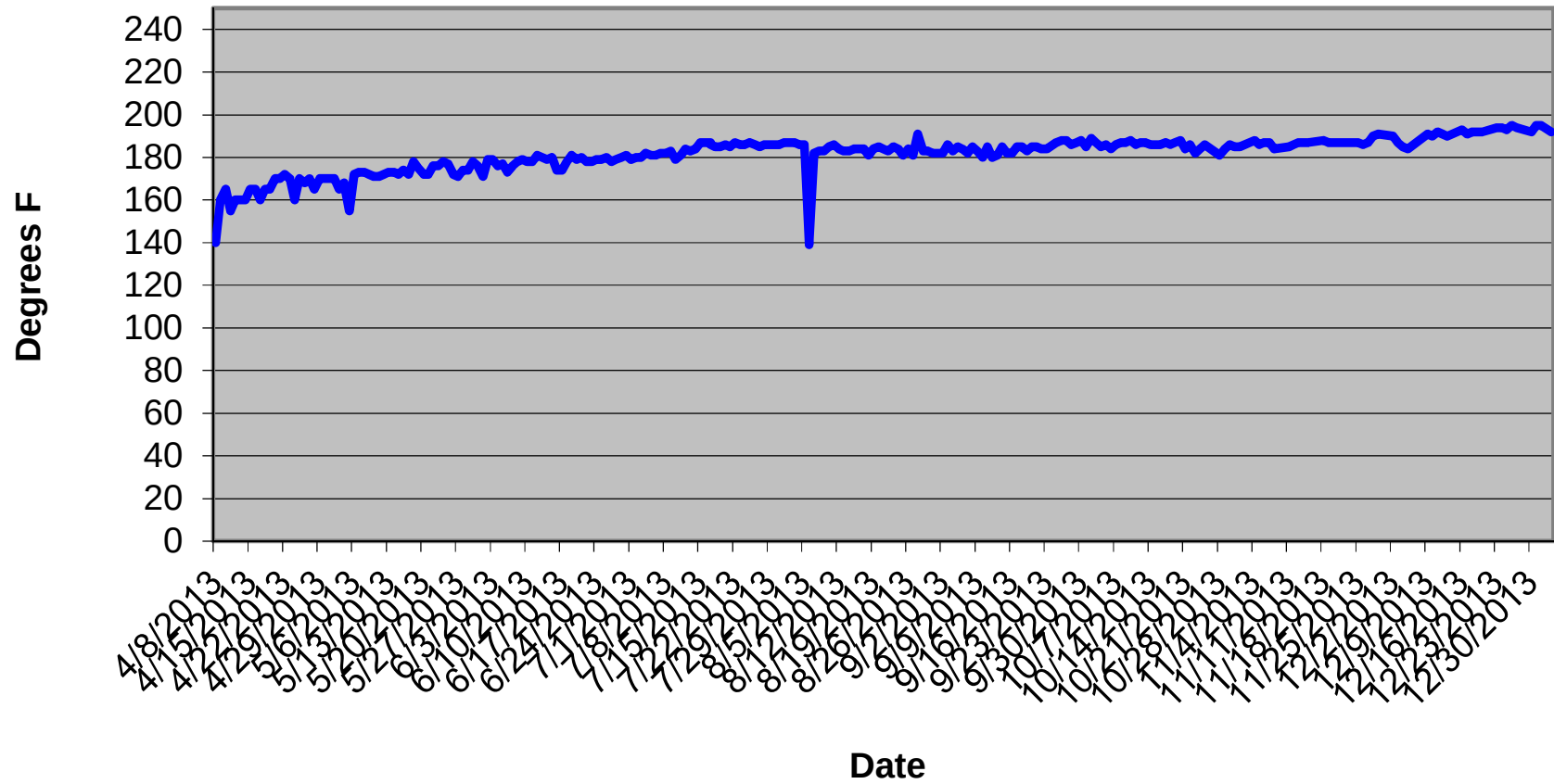
- Note:
- From 5/22 - 6/12/13, only the TMP-8 reading at 20' depth was operational. No valid readings were obtained for TMP-8 from 8/1 to 10/10/2013. Valid readings from 20' to 40' resumed on 10/16/2013.
 - A new OMEGA dial was installed at TMP-7R on 6/12/2013 enabling more valid readings.
 - No valid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

TEMPERATURE VS TIME
BRIDGETON LANDFILL

ATTACHMENT C

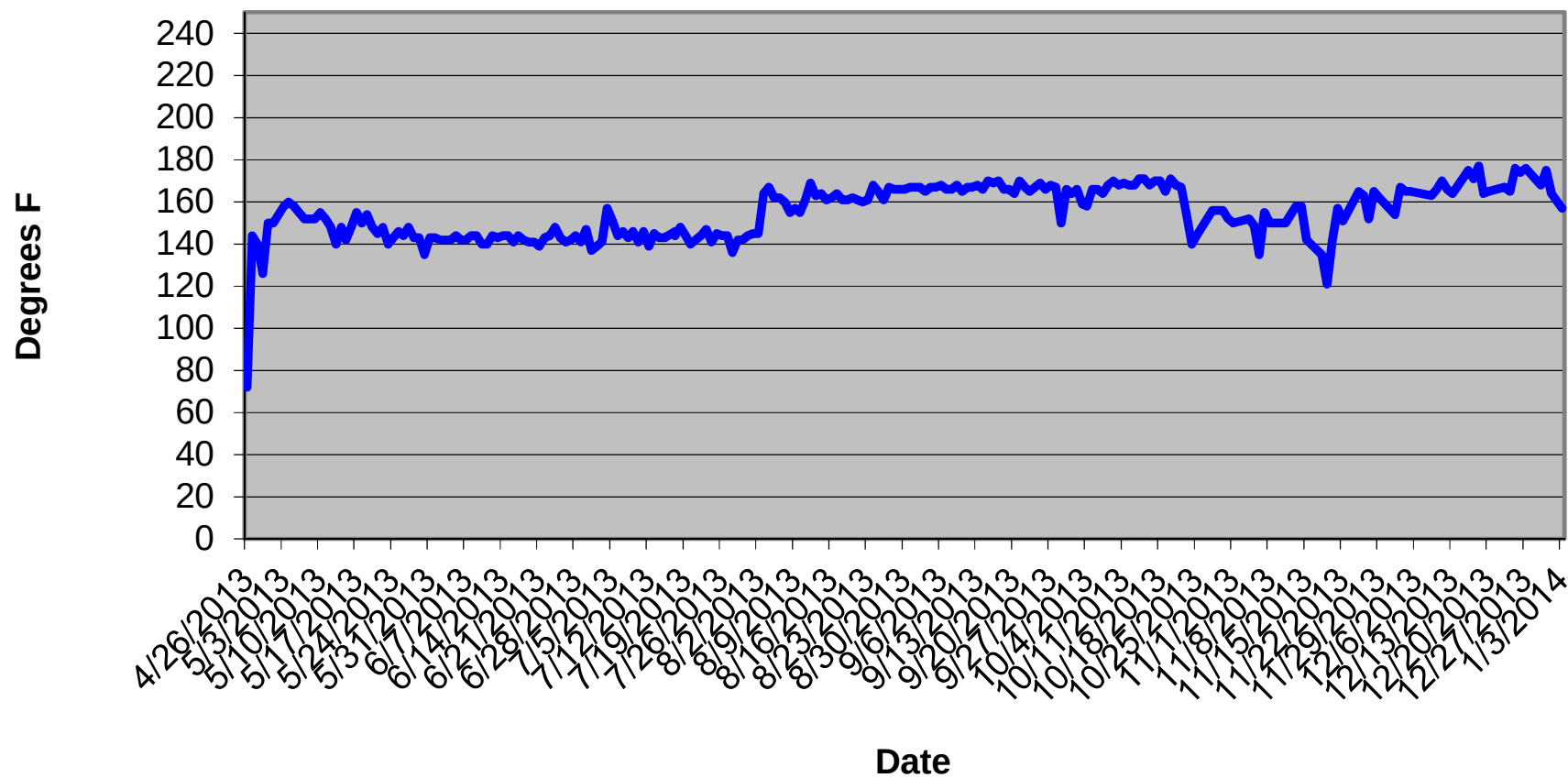
GAS INTERCEPTOR WELLHEAD TEMPERATURE GRAPHS

GIW-1 Wellhead Temperatures



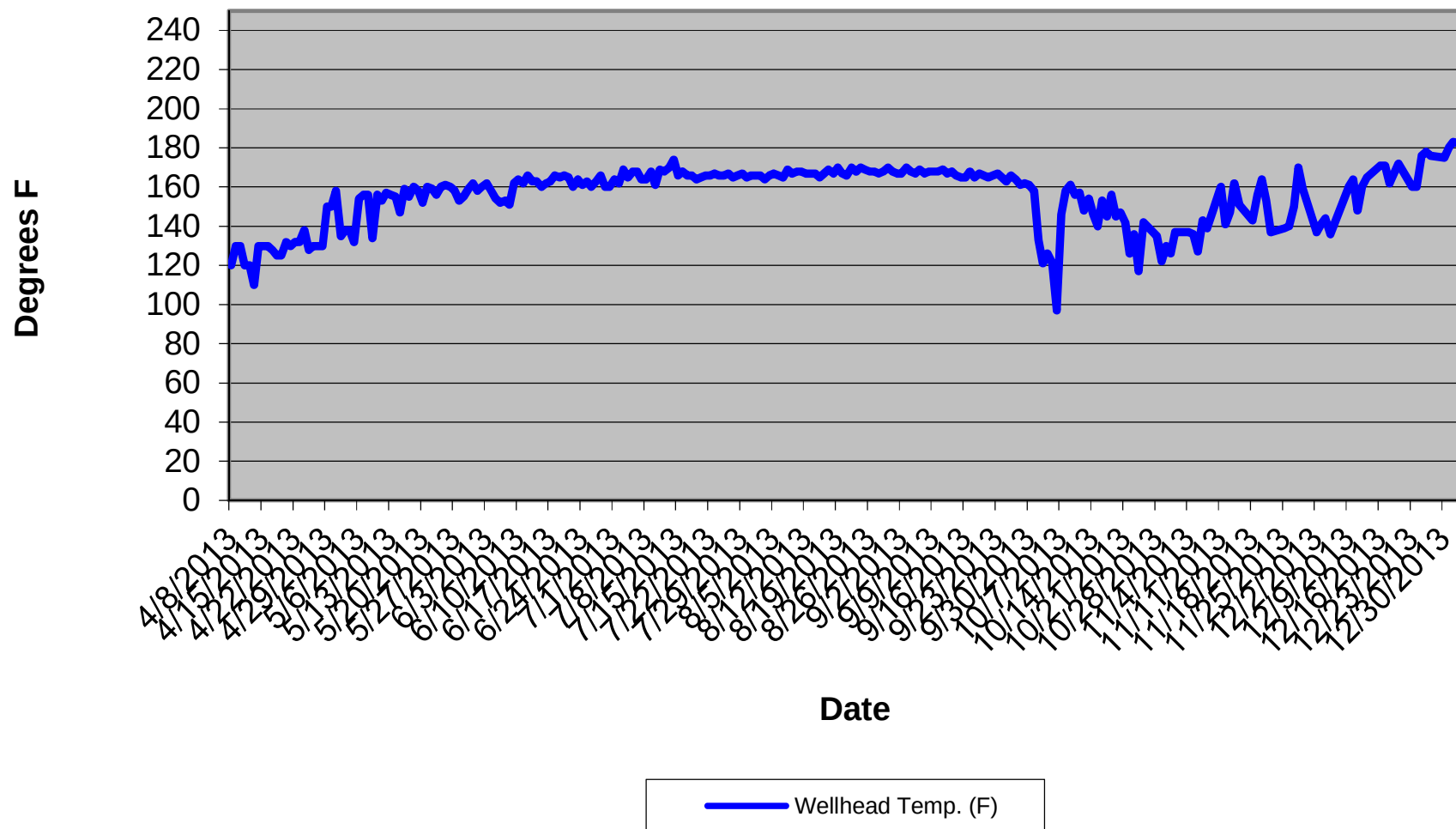
Wellhead Temp. (F)

GIW-2 Wellhead Temperatures

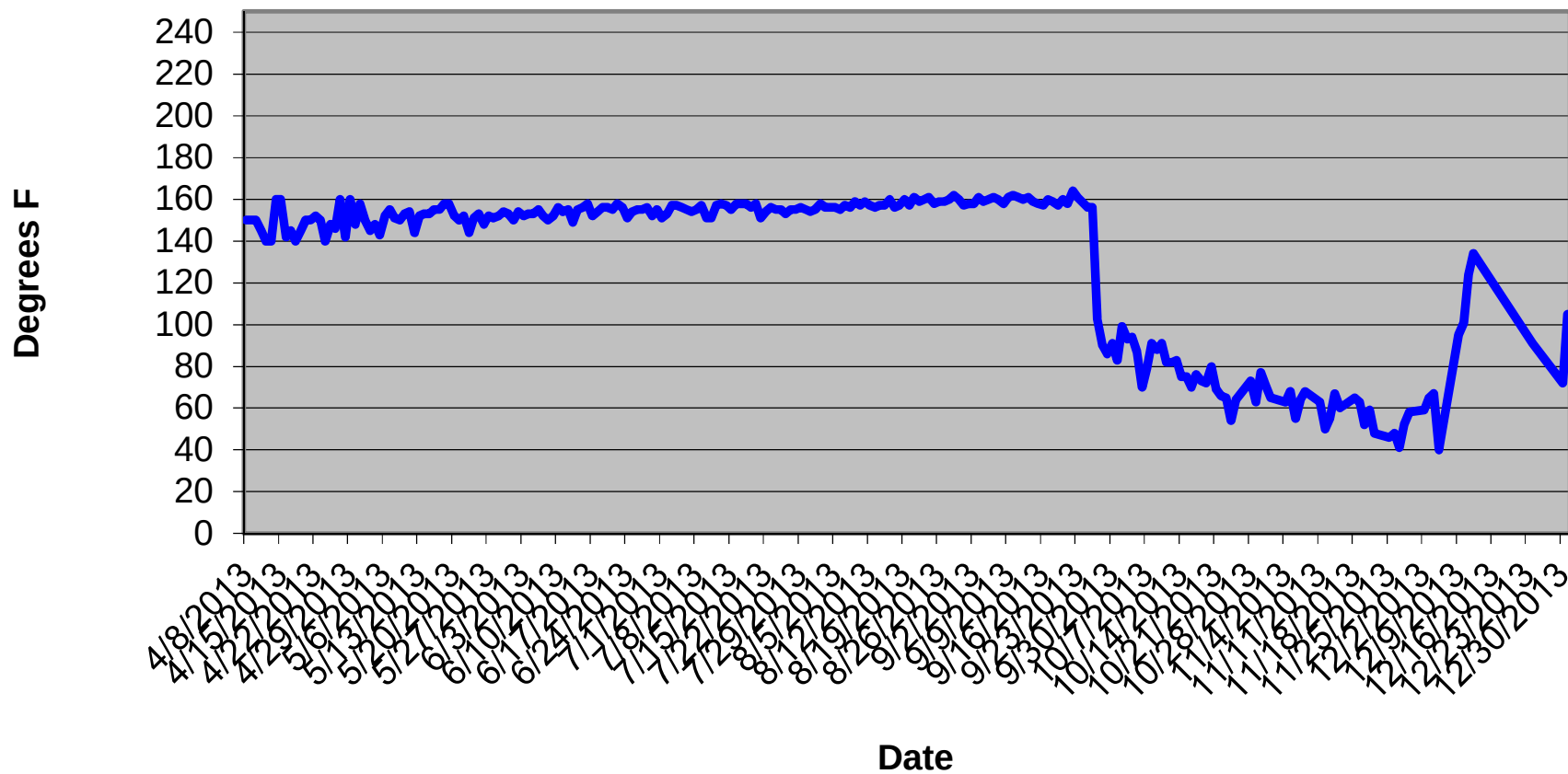


Wellhead Temp. (F)

GIW-3 Wellhead Temperatures

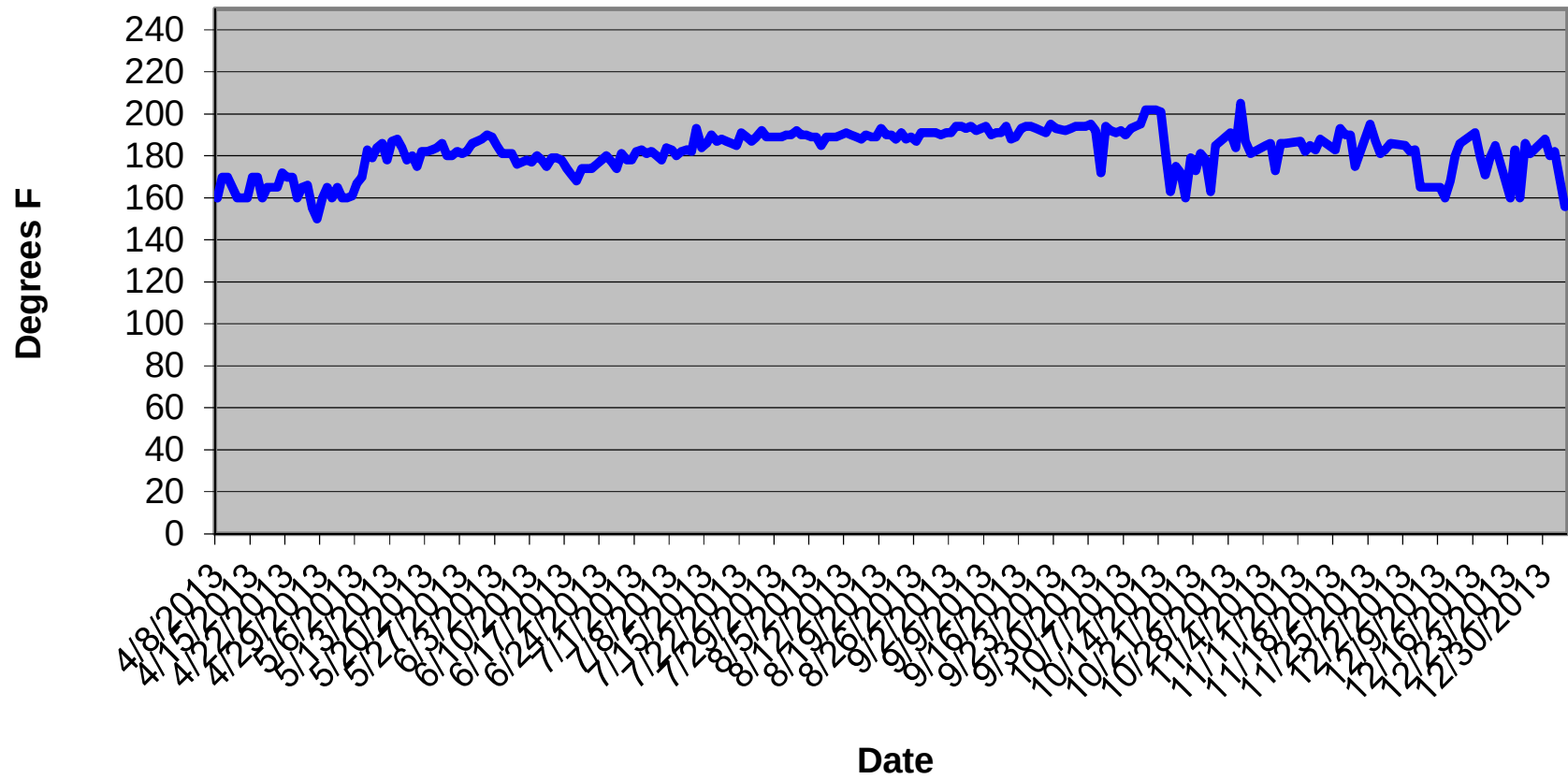


GIW-4 Wellhead Temperatures



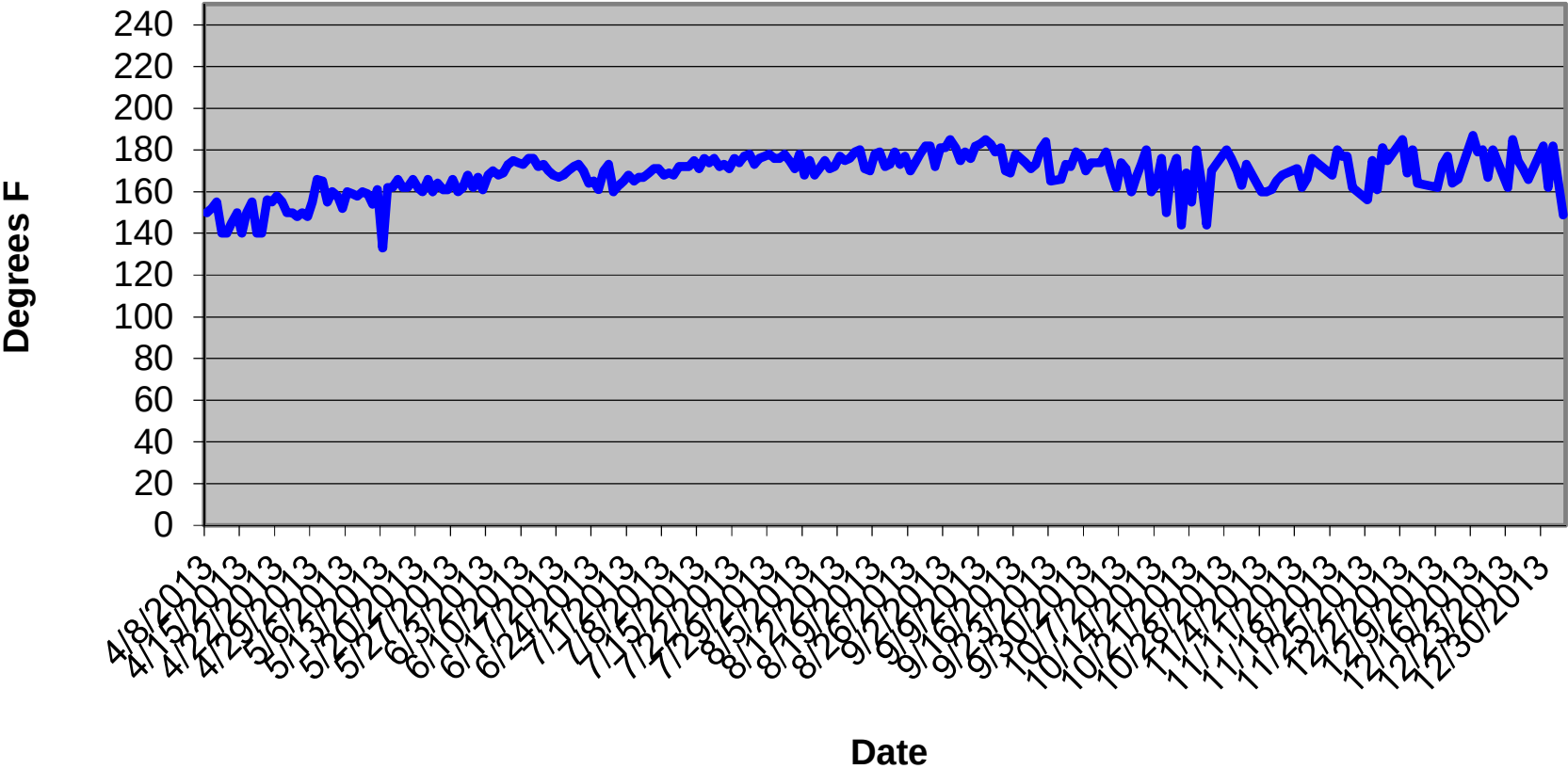
Wellhead Temp. (F)

GIW-5 Wellhead Temperatures



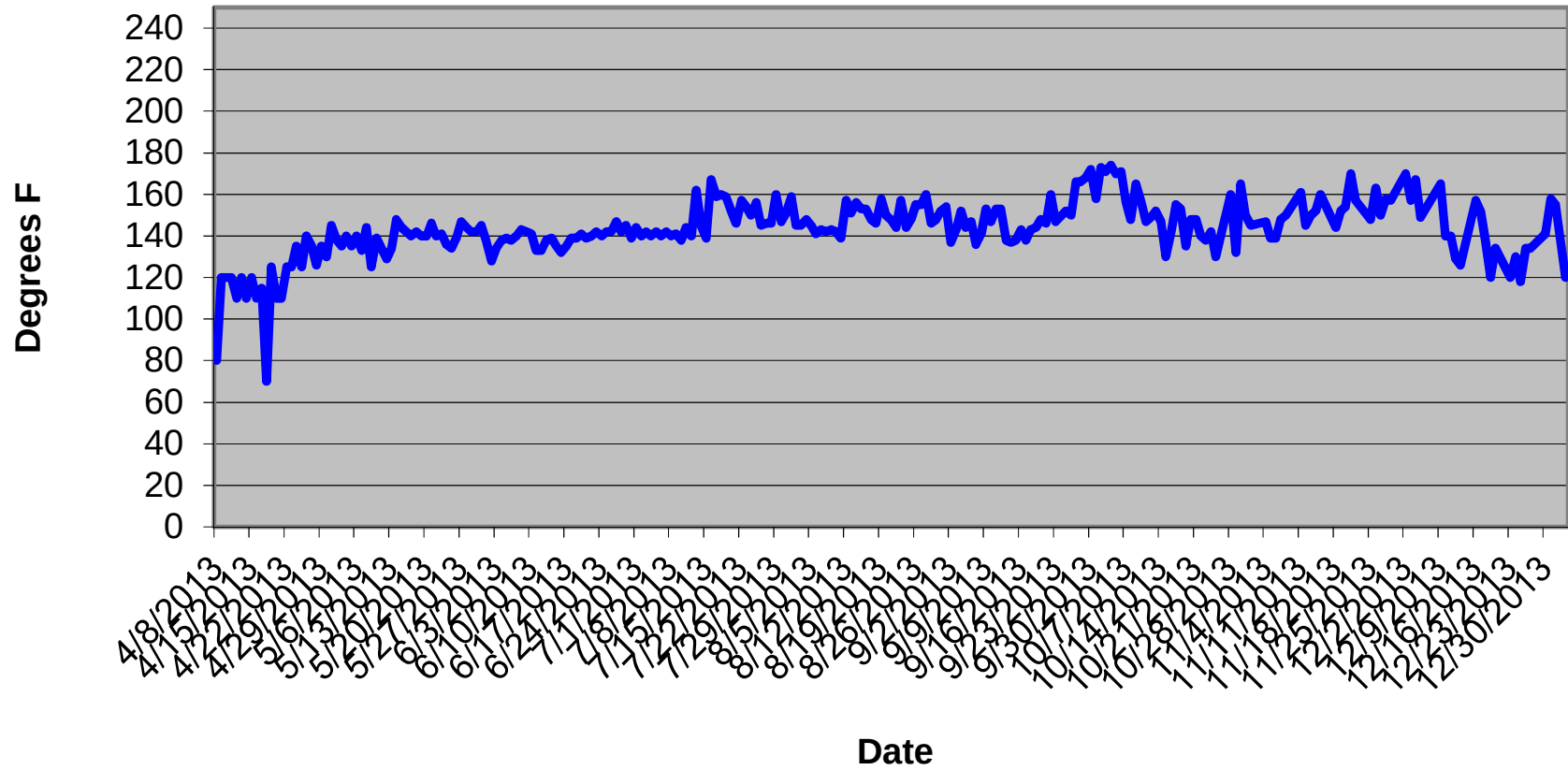
Wellhead Temp. (F)

GIW-6 Wellhead Temperatures



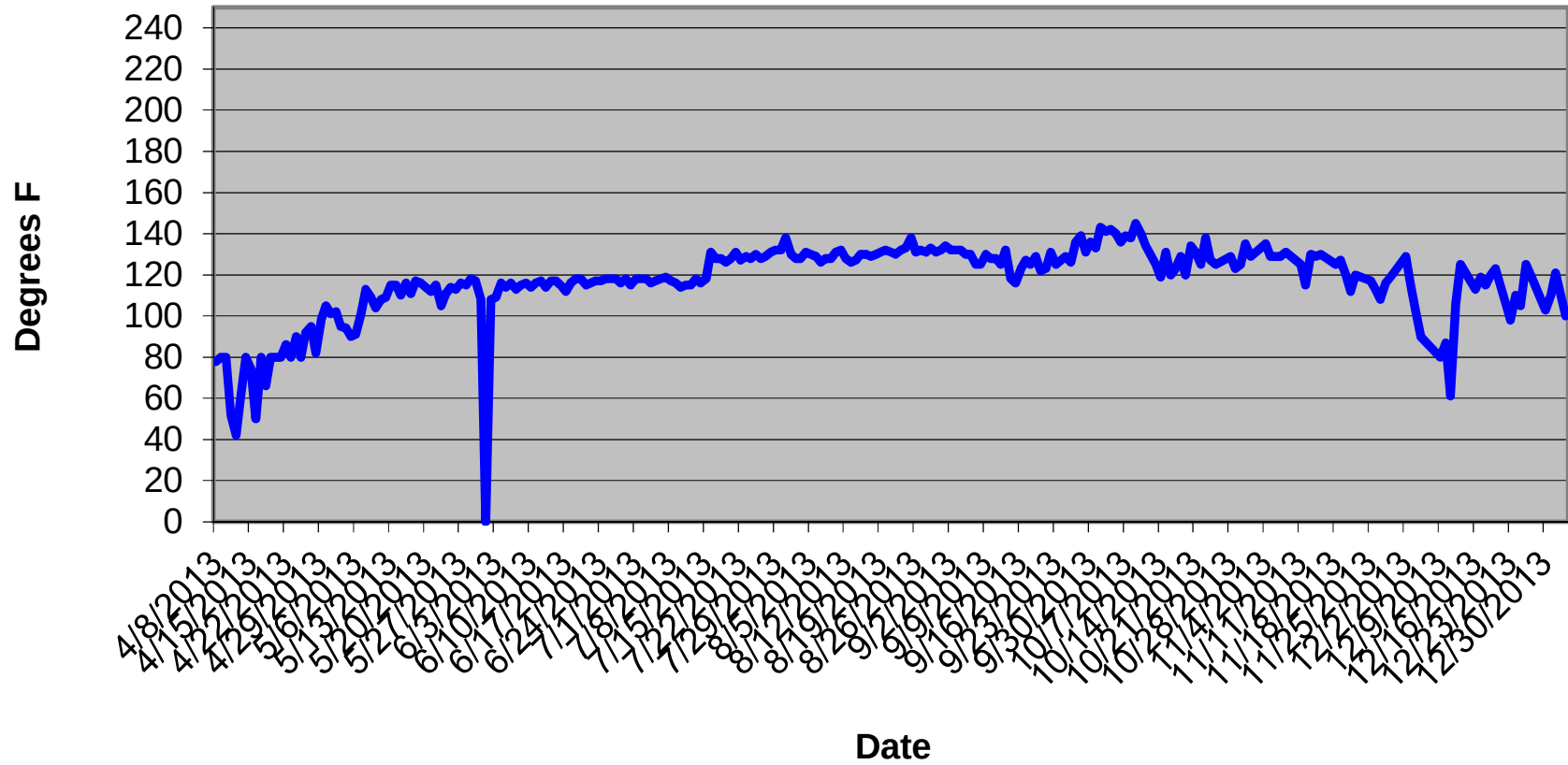
Wellhead Temp. (F)

GIW-7 Wellhead Temperatures



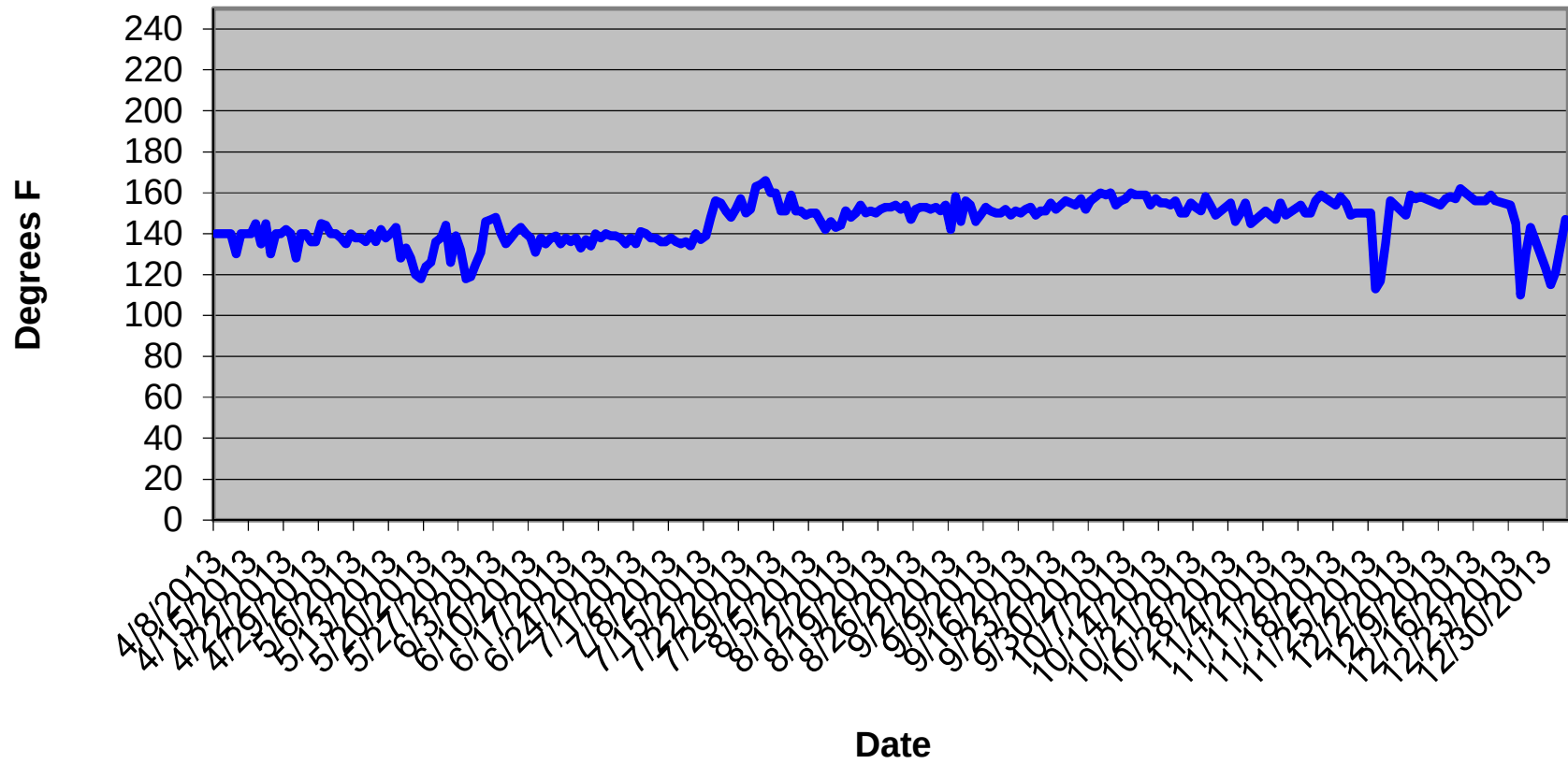
Wellhead Temp. (F)

GIW-8 Wellhead Temperatures



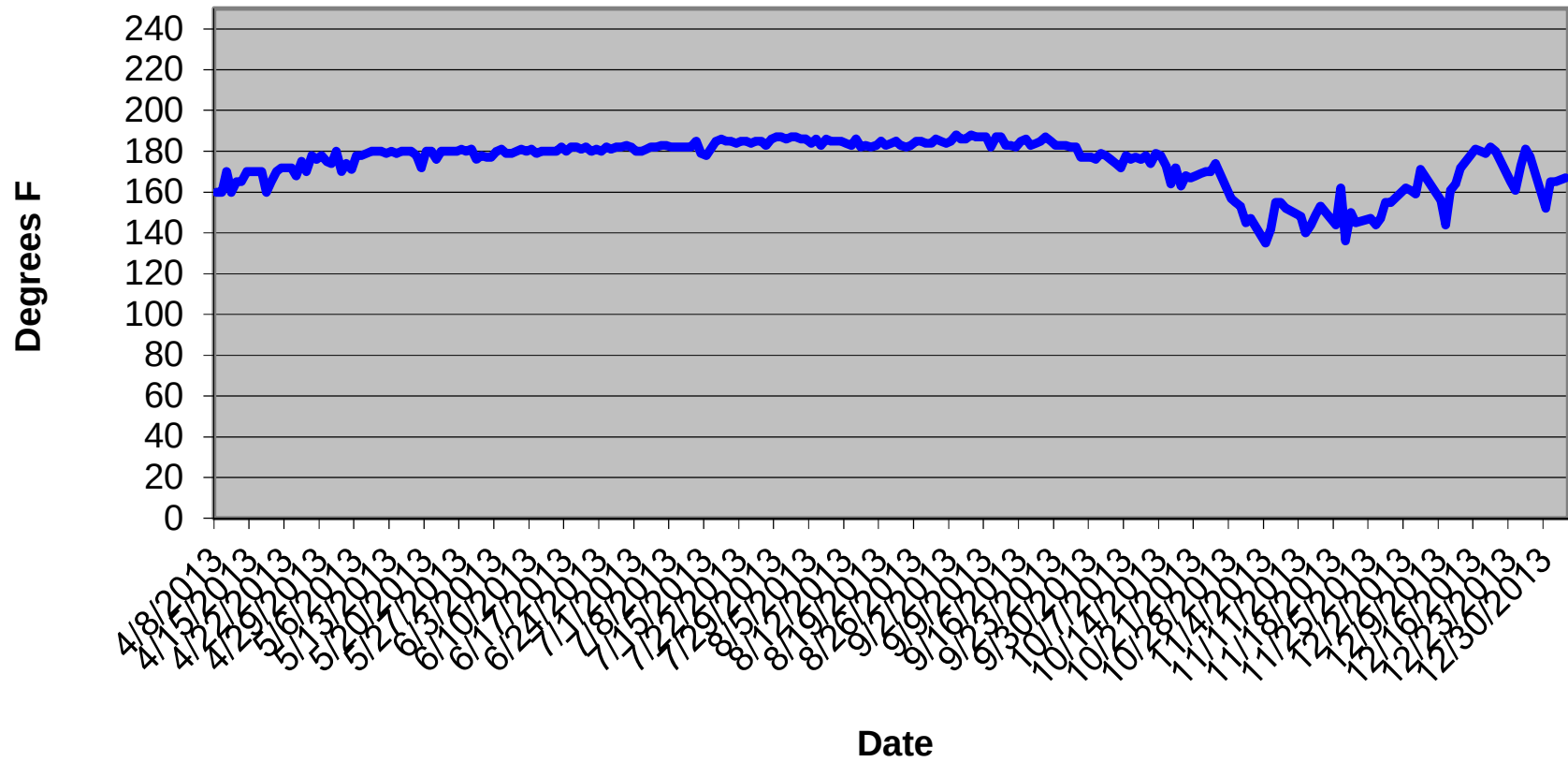
Wellhead Temp. (F)

GIW-9 Wellhead Temperatures



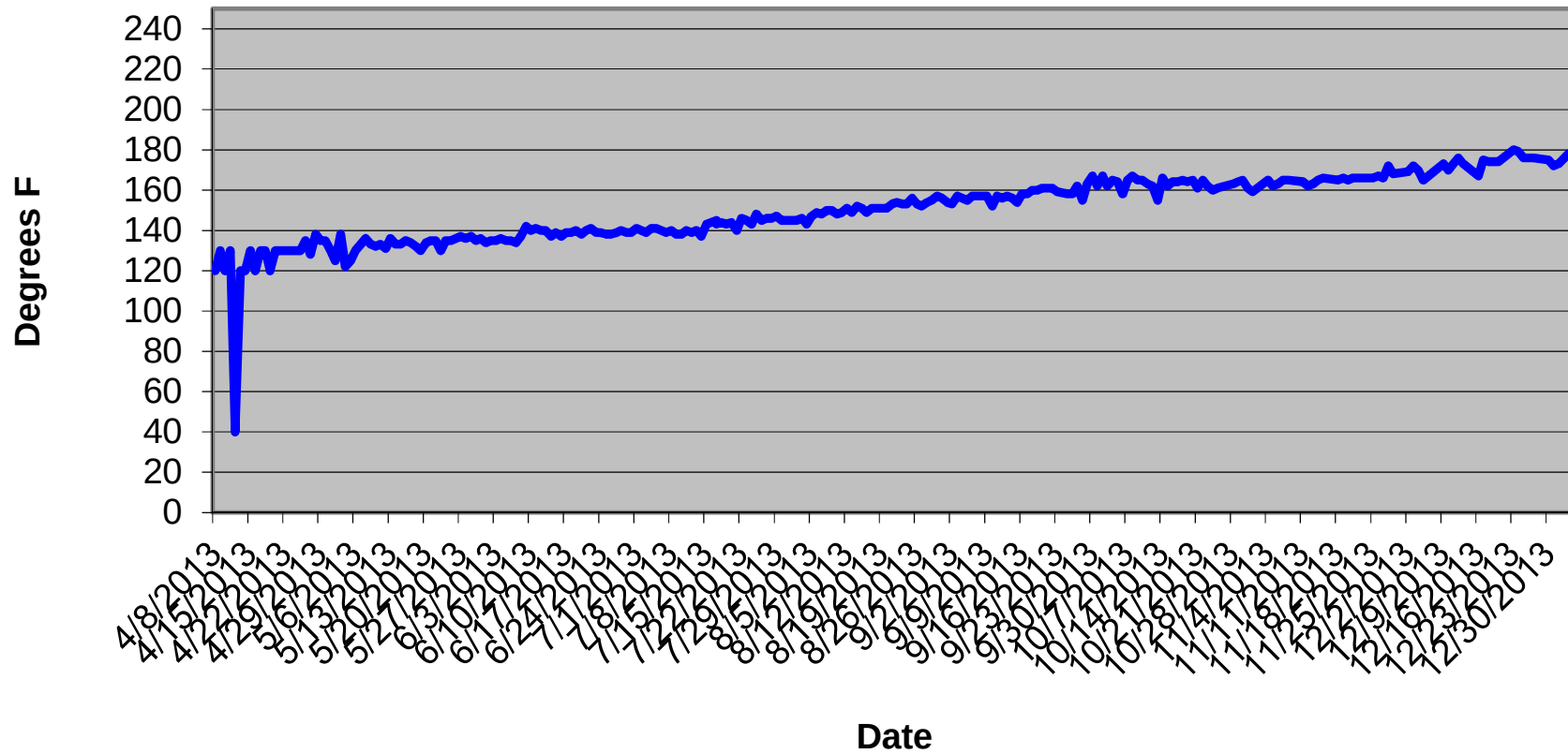
Wellhead Temp. (F)

GIW-10 Wellhead Temperatures



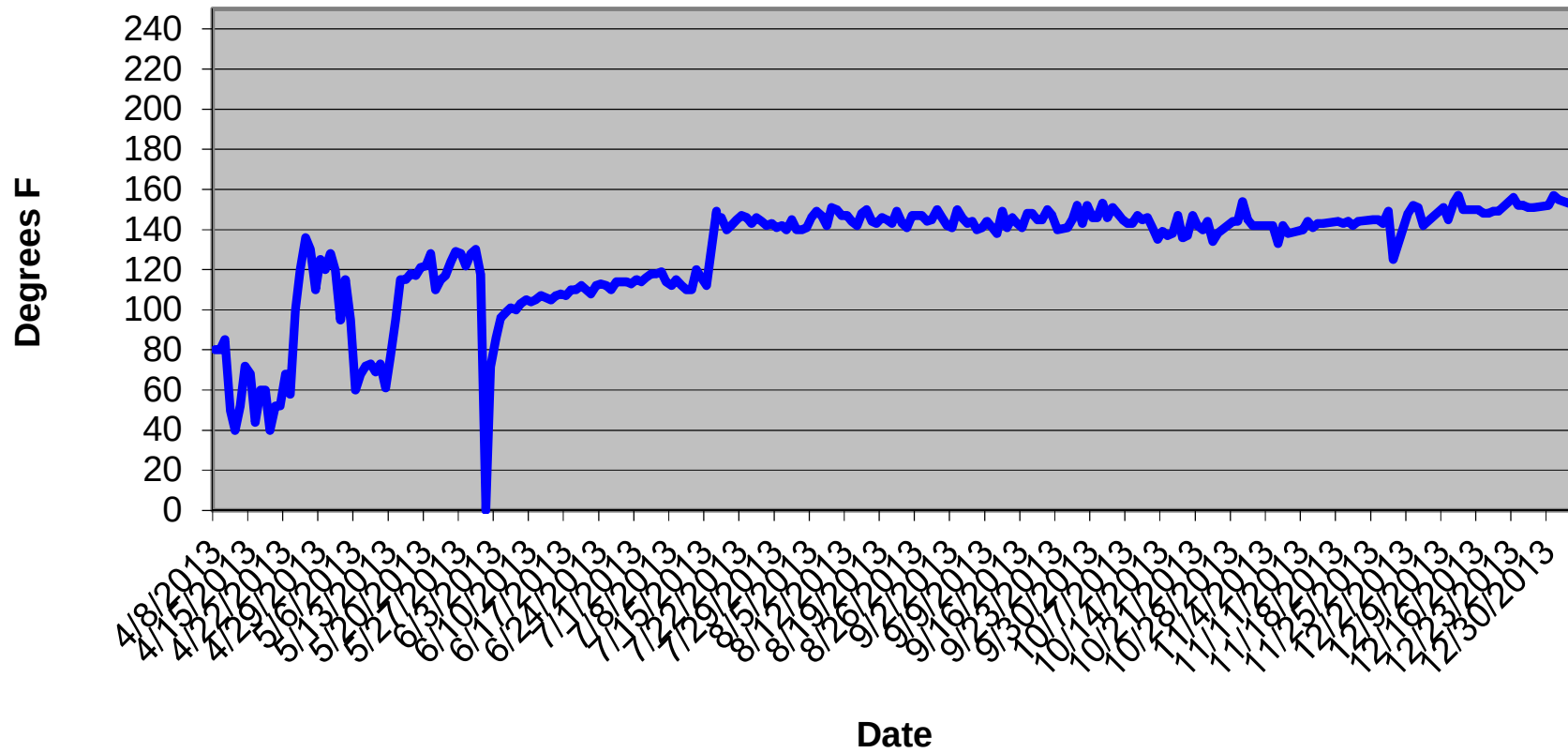
Wellhead Temp. (F)

GIW-11 Wellhead Temperatures



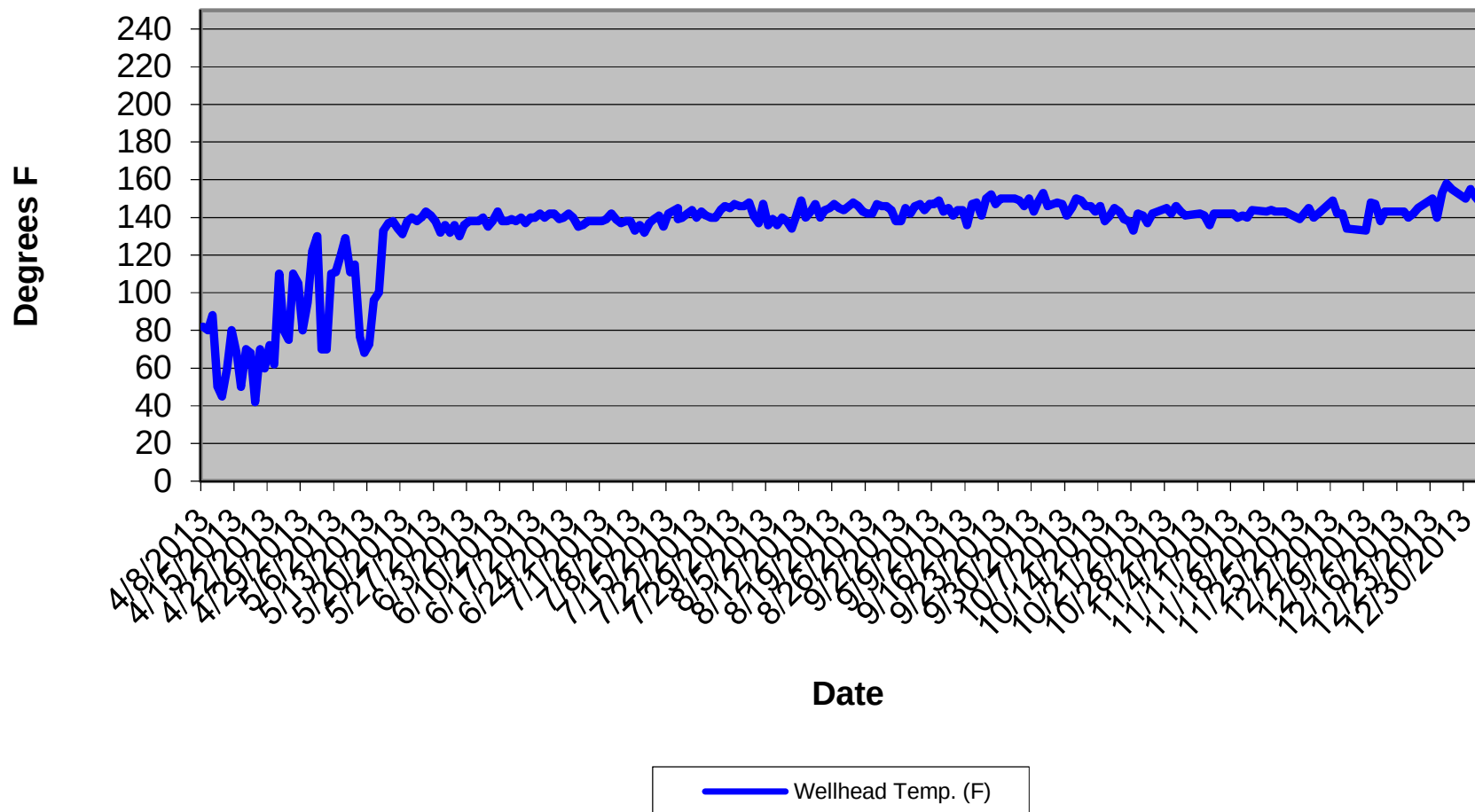
Wellhead Temp. (F)

GIW-12 Wellhead Temperatures



Wellhead Temp. (F)

GIW-13 Wellhead Temperatures



GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-01	04/08/13	1.2	73.9	0	24.9	140	-0.2	N	
GIW-01	04/09/13	1.7	75.2	0	23.1	160	0	Y	
GIW-01	04/10/13	1.6	74.4	0.2	23.8	165	-1.1	Y	
GIW-01	04/11/13	1.7	73.7	0.1	24.5	155	0.9	Y	
GIW-01	04/12/13	1.9	73.3	0.2	24.6	160	-1.3	Y	
GIW-01	04/13/13	1.9	74.3	0.4	23.4	160	1.6	Y	
GIW-01	04/14/13	1.9	75.9	0.2	22	160	-2.3	Y	
GIW-01	04/15/13	2	74.5	0.2	23.3	165	1.6	Y	
GIW-01	04/16/13	2.1	73.2	0.3	24.4	165	-1.8	Y	
GIW-01	04/17/13	2.1	74.4	0.3	23.2	160	-1	Y	
GIW-01	04/18/13	2.1	76.3	0.2	21.4	165	-2	Y	
GIW-01	04/19/13	2.1	71.9	0.6	25.4	165	-2.9	Y	
GIW-01	04/20/13	2.1	74.2	0.3	23.4	170	-1	Y	
GIW-01	04/21/13	2.1	73.1	0.8	24	170	-2.8	Y	
GIW-01	04/22/13	2.1	75.2	0.2	22.5	172	-3	Y	
GIW-01	04/23/13	2.1	72.5	0.6	24.8	170	-2.1	Y	
GIW-01	04/24/13	1.9	72.2	0	25.9	160	-4.6	Y	
GIW-01	04/25/13	2.1	70.7	0	27.2	170	-3.1	Y	
GIW-01	04/26/13	1.9	73.2	0.5	24.4	168	-4.3	Y	
GIW-01	04/27/13	2	73.4	1	23.6	170	-4.4	Y	
GIW-01	04/28/13	1.9	74.3	0.4	23.4	165	-4.7	Y	
GIW-01	04/29/13	1.8	76.8	0.1	21.3	170	-4.3	Y	
GIW-01	04/30/13	1.6	77.1	0.6	20.7	170	-4.2	Y	
GIW-01	05/01/13	1.6	77.3	0	21.1	170	-4	Y	
GIW-01	05/02/13	1.8	75.3	0.2	22.7	170	-4.4	Y	
GIW-01	05/03/13	2	71.1	0.3	26.6	165	-4.3	Y	
GIW-01	05/04/13	1.8	71.5	0.4	26.3	168	-4	Y	
GIW-01	05/05/13	1.7	74.6	0.3	23.4	155	-4.6	Y	Begin using fluke temp meter
GIW-01	05/06/13	1.8	74.8	0	23.4	172	-4.5	Y	
GIW-01	05/07/13	1.6	74.2	0.3	23.9	173	-4.4	Y	
GIW-01	05/08/13	1.7	73.8	0.3	24.2	173	-4.4	Y	
GIW-01	05/09/13	1.8	76	0	22.2	172	-3	Y	
GIW-01	05/10/13	1.7	76	0	22.3	171	-4.1	Y	
GIW-01	05/11/13	2.1	75.2	0	22.7	171	-4.4	Y	
GIW-01	05/12/13	1.8	75.2	0.1	22.9	172	-4.2	Y	
GIW-01	05/13/13	1.7	76.1	0	22.2	173	-4.1	Y	
GIW-01	05/14/13	1.7	75.6	0	22.7	173	-4.3	Y	Replaced 1-inch rod seal
GIW-01	05/15/13	1.6	75.3	0	23.1	172	-4.2	Y	Installed check valve
GIW-01	05/16/13	1.8	74	0	24.2	174	-4.9	Y	
GIW-01	05/17/13	1.7	75.4	0	22.9	172	-4.4	Y	
GIW-01	05/18/13	1.8	74.2	0.2	23.8	178	-4	Y	
GIW-01	05/19/13	1.7	77	0	21.3	175	-3	Y	
GIW-01	05/20/13	1.8	74.5	0.1	23.6	172	-4	Y	
GIW-01	05/21/13	1.8	73.8	0.2	24.2	172	-4.8	Y	
GIW-01	05/22/13	2.1	73.5	0.2	24.2	176	-3.7	Y	
GIW-01	05/23/13	1.9	74.4	0	23.7	176	-5.2	Y	
GIW-01	05/24/13	2	73.6	0.6	23.8	178	-4.2	Y	
GIW-01	05/25/13	1.9	75.3	0.2	22.6	177	-3.9	Y	
GIW-01	05/26/13	1.9	75.1	0.4	22.6	172	-4.2	Y	
GIW-01	05/27/13	2.3	75.1	0.2	22.4	171	-3.1	Y	
GIW-01	05/28/13	3.8	74	0.5	21.7	174	-3.3	Y	
GIW-01	05/29/13	1.9	73.5	0.1	24.5	174	-2.8	Y	Vacuum low, working on header
GIW-01	05/30/13	2	74.1	0.2	23.7	178	-3.8	Y	
GIW-01	05/31/13	2.1	75.2	0	22.7	176	-3.7	Y	
GIW-01	06/01/13	1.9	74.7	0	23.4	171	-3.2	Y	
GIW-01	06/02/13	2.1	75.5	0	22.4	179	-4	Y	
GIW-01	06/03/13	2	75.6	0	22.4	179	-2.5	Y	Working on available vac issue
GIW-01	06/04/13	2.2	75.3	0.1	22.4	176	-1	Y	Working on available vac issue
GIW-01	06/05/13	3.5	73.5	0.6	22.4	177	-1.2	Y	Working on available vac issue
GIW-01	06/06/13	5.1	73.2	0.6	21.1	173	-2.6	Y	Working on available vac issue
GIW-01	06/07/13	2.2	69.9	0.3	27.6	176	-2.4	Y	Working on available vac issue
GIW-01	06/08/13	2.2	70.7	0.1	27	178	-0.8	Y	Sag main header, jumper installed late 6-8
GIW-01	06/09/13	3.5	71.5	0.4	24.6	179	-3.7	Y	Vacuum restored
GIW-01	06/10/13	2.1	72.8	0.3	24.8	178	-5.3	Y	
GIW-01	06/11/13	2	72.1	0.3	25.6	178	-4	Y	
GIW-01	06/12/13	2.5	70.5	0	27	181	-3.9	Y	
GIW-01	06/13/13	4.2	73.4	0	22.4	180	-4.6	Y	
GIW-01	06/14/13	2.7	70.7	0.4	26.2	179	-4.8	Y	
GIW-01	06/15/13	2.3	71.1	0.2	26.4	180	-4.8	Y	
GIW-01	06/16/13	1.7	72	0.1	26.2	174	-2.9	Y	Blown seal, replaced pump head

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-01	06/17/13	2	71.7	0.5	25.8	174	-4.3	Y	
GIW-01	06/18/13	1.8	73.1	0.1	25	178	-4.1	Y	
GIW-01	06/19/13	1.7	73.7	0.5	24.1	181	-4	Y	
GIW-01	06/20/13	1.4	78.5	0.7	19.4	179	-4.4	Y	
GIW-01	06/21/13	2	73	0.2	24.8	180	-4	Y	
GIW-01	06/22/13	1.8	72.2	0.3	25.7	178	-4.1	Y	
GIW-01	06/23/13	2.6	70.1	0.2	27.1	178	-4	Y	
GIW-01	06/24/13	1.7	69.9	0.9	27.5	179	-4.2	Y	
GIW-01	06/25/13	4.7	70.8	0.8	23.7	179	-4.1	Y	
GIW-01	06/26/13	5.2	71.8	0.6	22.4	180	-4	Y	
GIW-01	06/27/13	2	64.8	1.4	31.8	178	-5.4	Y	
GIW-01	06/28/13	2.9	72	0.4	24.7	179	-4	Y	
GIW-01	06/29/13	2.2	69.2	0.4	28.2	180	-4.7	Y	
GIW-01	06/30/13	2.2	71.8	0.4	25.6	181	-4.7	Y	
GIW-01	07/01/13	2.1	69.7	0.8	27.4	179	-3.9	Y	
GIW-01	07/02/13	2.1	71.9	0.2	25.8	180	-4.7	Y	
GIW-01	07/03/13	2.3	70.9	0	26.8	180	-4	Y	Replaced 1-inch rod seal
GIW-01	07/04/13	3.4	66.7	0.7	29.2	182	-4	Y	
GIW-01	07/05/13	2.6	67	0.2	30.2	181	-4	Y	
GIW-01	07/06/13	3	72.1	0	24.9	181	-4.1	Y	
GIW-01	07/07/13	3.1	72	0.1	24.8	182	-4	Y	
GIW-01	07/08/13	2.6	73.4	0.6	23.4	182	-4	Y	
GIW-01	07/09/13	2.1	71.6	0.4	25.9	183	-3.9	Y	
GIW-01	07/10/13	2.6	72.8	0.4	24.2	179	-4.6	Y	
GIW-01	07/11/13	3.3	67.9	0.9	27.9	181	-3.9	N	Replaced 1-inch rod seal, pump operating
GIW-01	07/12/13	2.1	71.9	0	26	184	-4	Y	
GIW-01	07/13/13	4.5	76.3	0	19.2	183	-4.2	Y	
GIW-01	07/14/13	2.3	70.1	0	27.6	184	-4.1	N	Repl. rod seals & 4-way valve, operating
GIW-01	07/15/13	2.1	68.4	0.3	29.2	187	-4.2	Y	
GIW-01	07/17/13	2.1	74.6	0.1	23.2	187	-4.9	Y	Collected 1 min after midnight
GIW-01	07/17/13	2.3	74.6	0.4	22.7	186	-3	Y	
GIW-01	07/18/13	2.1	72.6	0	25.3	185	-3.1	Y	
GIW-01	07/19/13	2.3	73.4	0.2	24.1	185	-3	Y	
GIW-01	07/20/13	2.3	75.5	0.4	21.8	186	-2.1	Y	
GIW-01	07/21/13	2.4	73.9	0	23.7	185	-3.5	Y	
GIW-01	07/22/13	2.1	72.6	0.3	25	187	-3.4	Y	
GIW-01	07/23/13	2.2	74.2	0	23.6	186	-4.5	Y	
GIW-01	07/24/13	4.2	70.2	0.5	25.1	186	-4.5	Y	
GIW-01	07/25/13	2.8	73.3	0.4	23.5	187	-3.1	Y	
GIW-01	07/26/13	3.8	72.5	0.6	23.1	186	-1.9	Y	
GIW-01	07/27/13	2.5	70.9	0	26.6	185	-2.3	Y	
GIW-01	07/28/13	3.1	71.1	0.3	25.5	186	-2.6	Y	
GIW-01	07/29/13	2.5	72.6	0.1	24.8	186	-2	Y	
GIW-01	07/30/13	3.4	69.2	0.1	27.3	186	-3.2	Y	
GIW-01	07/31/13	2.5	70.7	0.3	26.5	186	-1.9	Y	
GIW-01	08/01/13	2.5	74.3	0	23.2	187	-1.8	Y	
GIW-01	08/02/13	2.5	73.6	0	23.9	187	-2.3	Y	
GIW-01	08/03/13	3.6	72.5	0.3	23.6	187	-2.6	Y	
GIW-01	08/04/13	2.9	74.7	0.1	22.3	186	-2.4	Y	
GIW-01	08/05/13	2.6	73.5	0.2	23.7	186	-2.1	Y	
GIW-01	08/06/13	2.5	73.1	0.2	24.2	139	-2.1	Y	Possible temperature error
GIW-01	08/07/13	2	72.8	0	25.2	182	-3.8	Y	
GIW-01	08/08/13	5.5	71.7	0.3	22.5	183	-4.4	Y	
GIW-01	08/09/13	1.7	73.3	0.5	24.5	183	-4.4	Y	
GIW-01	08/10/13	3.6	71.8	0.4	24.2	185	-4.8	Y	
GIW-01	08/11/13	1.4	71.6	0.8	26.2	186	-4.8	Y	
GIW-01	08/12/13	2.3	71.4	0.8	25.5	184	-4.2	Y	
GIW-01	08/13/13	1.3	70.9	0.8	27	183	-4.8	Y	
GIW-01	08/14/13	1.5	69.7	0.5	28.3	183	-5	Y	
GIW-01	08/15/13	1.4	72.7	0.3	25.6	184	-4.6	Y	
GIW-01	08/16/13	1.5	72.7	0.2	25.6	184	-4.4	Y	
GIW-01	08/17/13	1.4	71.2	0.3	27.1	184	-4.8	Y	
GIW-01	08/18/13	1.6	73.2	0.2	25	181	-4.7	Y	
GIW-01	08/19/13	1.5	73.2	0.2	25.1	184	-5	Y	
GIW-01	08/20/13	2	66	0	32	185	-4.6	Y	
GIW-01	08/21/13	2.5	73.8	0	23.7	184	-4.2	Y	
GIW-01	08/22/13	2.2	73.1	0	24.7	183	-3.9	Y	
GIW-01	08/23/13	1.2	74.3	0	24.5	185	-4	N	Replaced 1" rod seal - pump operational
GIW-01	08/24/13	2.2	74.9	0.4	22.5	184	-3.1	Y	
GIW-01	08/25/13	1.1	74.4	0.3	24.2	181	-4.5	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-01	08/26/13	1.4	74.1	0	24.5	184	-4.4	Y	
GIW-01	08/27/13	1	74.6	0	24.4	181	-4.7	Y	
GIW-01	08/28/13	4.2	74.7	0	21.1	191	-2.9	Y	
GIW-01	08/29/13	1.1	75.3	0.2	23.4	183	-4	Y	
GIW-01	08/30/13	1.1	73.9	0.5	24.5	183	-3.9	Y	
GIW-01	08/31/13	1.1	72.4	0.3	26.2	182	-3.9	Y	
GIW-01	09/01/13	1.1	72.7	0.5	26.7	182	-3.6	Y	
GIW-01	09/02/13	1.1	75.3	0.4	23.2	182	-4	N	Replaced 4 way valve - pump operational
GIW-01	09/03/13	3.9	72.5	0.6	23	186	-4	Y	
GIW-01	09/04/13	1.5	73.5	0.1	24.9	183	-3.5	Y	
GIW-01	09/05/13	2	78.3	0.3	19.4	185	-4	Y	
GIW-01	09/06/13	1	81.9	0	17.1	184	-2.7	Y	
GIW-01	09/07/13	1.1	78.6	0.2	20.1	182	-3.6	Y	
GIW-01	09/08/13	1	78.7	0.3	20	185	-3.1	Y	
GIW-01	09/09/13	1.1	79.1	0	19.8	183	-2.7	Y	
GIW-01	09/10/13	0.9	83.2	0.4	15.5	180	-3.7	Y	
GIW-01	09/11/13	1	83.8	0	15.2	185	-3.2	Y	
GIW-01	09/12/13	1.3	80.9	0.3	17.5	180	-4.9	Y	
GIW-01	09/13/13	1.1	82.5	0.3	16.1	181	-2.7	Y	
GIW-01	09/14/13	0.8	78.3	1.3	19.6	185	-4.4	Y	
GIW-01	09/15/13	1.1	82.5	0.3	16.1	182	-3.9	Y	
GIW-01	09/16/13	1.1	76.8	0.3	21.8	182	-3.1	Y	
GIW-01	09/17/13	1	75.2	0.2	23.6	185	-2.8	Y	
GIW-01	09/18/13	1	76	0.1	22.9	185	-2.6	Y	
GIW-01	09/19/13	1.1	75.6	0	23.3	183	-2.7	Y	
GIW-01	09/20/13	1.1	82.9	0.2	15.8	185	-3	Y	
GIW-01	09/21/13	1.1	76.7	0.1	22.1	185	-2.5	Y	
GIW-01	09/22/13	1.1	83	0.3	15.6	184	-2.6	Y	
GIW-01	09/23/13	1.3	83.1	0	15.6	184	-3.2	Y	
GIW-01	09/25/13	1.5	85.3	0	13.2	187	-4.7	Y	
GIW-01	09/26/13	1.7	82.9	0	15.4	188	-3	Y	
GIW-01	09/27/13	1.4	76.2	0	22.4	188	-2.1	Y	
GIW-01	09/28/13	1.4	77.4	0	21.2	186	-4.9	Y	
GIW-01	09/29/13	1.5	76.1	0	22.4	187	-4.6	Y	
GIW-01	09/30/13	1.3	75.1	0	23.6	188	-3.4	Y	
GIW-01	10/01/13	1.3	77.9	0	20.8	185	-3.7	Y	
GIW-01	10/02/13	1.8	72	0	26.2	189	-2.3	Y	
GIW-01	10/03/13	1.6	78.9	0	19.5	187	-4.2	Y	
GIW-01	10/04/13	1.4	76.5	0	22.1	185	-4.2	Y	
GIW-01	10/05/13	1.5	84.1	0	14.4	186	-5.1	Y	
GIW-01	10/06/13	1.3	81.8	0	16.9	184	-5.5	Y	
GIW-01	10/07/13	1.5	83.7	0	14.8	186	-3.3	Y	
GIW-01	10/08/13	1.9	85.7	0	12.4	187	-1.5	Y	
GIW-01	10/09/13	1.4	84.3	0	14.3	187	-2.2	Y	
GIW-01	10/10/13	1.6	84.9	0	13.5	188	-2.1	Y	
GIW-01	10/11/13	1.5	84.4	0	14.1	186	-2.3	Y	
GIW-01	10/12/13	1.5	85	0	13.5	187	-4.6	Y	
GIW-01	10/13/13	1.3	84.5	0	14.2	187	-2.8	Y	
GIW-01	10/14/13	1.4	77.9	0	20.7	186	-1.2	Y	
GIW-01	10/15/13	1.4	78.5	0	20.1	186	-4	Y	
GIW-01	10/16/13	1.8	78	0	20.2	186	-2.2	Y	
GIW-01	10/17/13	2.1	75.4	0	22.5	187	-3.1	Y	
GIW-01	10/18/13	1.5	76.9	0	21.6	186	-1.8	Y	
GIW-01	10/19/13	1.3	84.5	0	14.2	187	-4.8	Y	
GIW-01	10/20/13	1.3	72.8	1.2	24.7	188	-4.5	Y	
GIW-01	10/21/13	1.2	83.6	0	15.2	184	-5.9	Y	
GIW-01	10/22/13	1.4	92	0	6.6	186	-4.1	Y	
GIW-01	10/23/13	1.2	92.9	0	5.9	182	-4.4	Y	
GIW-01	10/24/13	1.2	78.4	0	20.4	184	-4	Y	
GIW-01	10/25/13	1.2	77.4	0	21.4	186	-5.6	Y	
GIW-01	10/28/13	1	75.8	0	23.2	181	-4.9	Y	
GIW-01	10/29/13	1.1	77	0	21.9	184	-4.8	Y	
GIW-01	10/30/13	1.1	77.3	0	21.6	186	-3.3	Y	
GIW-01	10/31/13	1.1	78.4	0	20.5	185	-4.4	Y	
GIW-01	11/01/13	1.2	76.8	0	22	185	-3.8	Y	
GIW-01	11/04/13	1.2	77.5	0	21.3	188	-3.7	Y	
GIW-01	11/05/13	4.7	77.9	0	17.4	186	-4.1	Y	
GIW-01	11/06/13	1.1	77.2	0	21.7	187	-4.2	Y	
GIW-01	11/07/13	1.1	76.2	0	22.7	187	-3.7	Y	
GIW-01	11/08/13	0.7	77.1	0	22.2	184	-5.1	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-01	11/11/13	1	76.3	0	22.7	185	-4.7	Y	
GIW-01	11/12/13	0.8	80.8	0	18.4	186	-5.1	N	Need new upper & lower rod seal
GIW-01	11/13/13	0.9	80.1	0	19	187	-6.1	N	Need new upper & lower rod seal
GIW-01	11/14/13	1	81	0	18	187	-4.4	Y	
GIW-01	11/15/13	1.1	77.7	0	21.2	187	-4.9	Y	
GIW-01	11/18/13	1.2	79.9	0	18.9	188	-5.3	Y	
GIW-01	11/19/13	1	80.2	0	18.8	187	-4.5	Y	
GIW-01	11/20/13	0.9	75.5	0	23.6	187	-4.9	Y	
GIW-01	11/21/13	1.1	79.2	0.3	19.4	187	-4.4	Y	
GIW-01	11/22/13	1	81.1	0	17.9	187	-5.2	Y	
GIW-01	11/25/13	0.8	84.4	0	14.8	187	-7.9	Y	
GIW-01	11/26/13	0.6	77.9	0.1	21.4	186	-7.5	Y	Adjusted vac to -4.1 inches
GIW-01	11/27/13	1.8	79.9	0	18.3	187	-6	Y	
GIW-01	11/28/13	1.5	69.7	0	28.8	190	1.2	Y	Adjusted vac to -0.2 inches
GIW-01	11/29/13	1	81.2	0	17.8	191	2.7	Y	Adjusted vac to -3.4 inches
GIW-01	12/02/13	1.4	72.4	0	26.2	190	-1.6	Y	
GIW-01	12/03/13	0.7	74.7	0	24.6	187	-9.7	N	Fiberglass rod broke, will be replaced
GIW-01	12/04/13	0.7	74.7	0	24.6	185	-4.7	N	Fiberglass rod broke, will be replaced
GIW-01	12/05/13	0.7	72.8	0.5	26	184	-4	Y	Fiberglass rod replace-pump operational
GIW-01	12/09/13	1.9	72.3	0	25.8	191	-4.2	Y	
GIW-01	12/10/13	1.4	69.3	1.4	27.9	190	-4.2	Y	increased vac to -0.4 inches
GIW-01	12/11/13	1.6	75.3	0	23.1	192	1.9	Y	
GIW-01	12/12/13	1.3	73.8	0.1	24.8	191	-4.3	Y	
GIW-01	12/13/13	1.7	74.1	0	24.2	190	-3.6	Y	
GIW-01	12/16/13	1.9	74.1	0	24	193	-4.2	Y	
GIW-01	12/17/13	1.8	75.2	0.2	22.8	191	-8.7	Y	decreased vac to -6.7 inches
GIW-01	12/18/13	2.1	70.4	0	27.5	192	-4.5	Y	
GIW-01	12/19/13	1.9	74.8	0	23.3	192	-4.2	Y	
GIW-01	12/20/13	2.1	70.6	0	27.3	192	-4.6	Y	
GIW-01	12/23/13	2.3	71.4	0	26.3	194	-5	Y	
GIW-01	12/24/13	2.4	71.8	0	25.8	194	-4.1	Y	
GIW-01	12/25/13	1.9	80.8	0	17.3	193	1.6	Y	increased vac to -3.5 inches
GIW-01	12/26/13	2.3	72.5	0	25.2	195	-4.2	Y	
GIW-01	12/27/13	2.3	72.3	0	25.4	194	-4.3	Y	
GIW-01	12/30/13	1.8	73.1	0	25.1	192	-4.5	Y	
GIW-01	12/31/13	1.9	71.1	0	27	195	-4.1	Y	
GIW-01	01/01/14	2.2	73.9	0	23.9	195	-1.3	NA	increased vac to -1.7 inches
GIW-01	01/03/14	2.4	70	0	27.6	192	-7.8	Y	decreased vac to -7.1 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-02	04/08/13	2.2	68.6	0	29.2	72	-0.3	N	
GIW-02	04/09/13	2.8	92.5	0.3	4.4	144	-0.3	Y	
GIW-02	04/10/13	1.6	72.3	0.2	25.9	140	-1.1	Y	
GIW-02	04/11/13	1.4	70.8	0.2	27.6	126	-0.1	Y	
GIW-02	04/12/13	1.1	69.6	0.3	29	150	-0.3	Y	
GIW-02	04/13/13	1.1	70	0.3	28.6	150	-0.1	Y	
GIW-02	04/14/13	1.1	75.1	0.2	23.6	154	-0.1	Y	
GIW-02	04/15/13	1.2	70.5	0.3	28	158	-0.1	Y	
GIW-02	04/16/13	1.4	69	0.2	29.4	160	-0.5	Y	
GIW-02	04/17/13	9.1	67.7	0.2	23	158	-2.1	Y	
GIW-02	04/18/13	10.5	71.8	0.3	17.4	155	-1.1	Y	
GIW-02	04/19/13	9.7	61.1	0.6	28.6	152	-2.8	Y	
GIW-02	04/20/13	9	63.2	0.3	27.5	152	-2.6	Y	
GIW-02	04/21/13	8.9	63.2	0.8	27.1	152	-2.7	Y	
GIW-02	04/22/13	9.1	72.4	0.3	18.2	155	-2	Y	
GIW-02	04/23/13	9.1	61.5	0.8	28.6	152	-3.1	Y	
GIW-02	04/24/13	6.8	53.2	0.6	39.4	148	-4.9	Y	
GIW-02	04/25/13	7.1	53	0.4	39.5	140	-4.6	Y	
GIW-02	04/26/13	7	56.9	0.6	35.5	148	-3.4	Y	
GIW-02	04/27/13	7.9	52.5	1.4	38.2	142	-5	Y	
GIW-02	04/28/13	6.8	59.8	0.8	32.6	148	-4	Y	
GIW-02	04/29/13	7.4	62	0.3	30.3	155	-4.1	Y	
GIW-02	04/30/13	6.7	62	0.6	30.7	150	-4.1	Y	
GIW-02	05/01/13	7.7	63.2	0	29.1	154	-4	Y	
GIW-02	05/02/13	8.7	63.1	0	28.2	148	-5.2	Y	
GIW-02	05/03/13	6.5	55.2	0.6	37.7	145	-4.8	Y	
GIW-02	05/04/13	7.2	57.5	0.4	34.9	148	-4	Y	
GIW-02	05/05/13	9	54.6	0	36.4	140	-5.4	Y	Begin using fluke temp meter
GIW-02	05/06/13	10.4	57.7	0	31.9	143	-4.3	Y	
GIW-02	05/07/13	10.6	58.4	0.3	30.7	146	-4.7	Y	
GIW-02	05/08/13	9.9	53.3	0.4	36.4	144	-4.9	Y	
GIW-02	05/09/13	10.8	63	0	26.2	148	-3.8	Y	
GIW-02	05/10/13	10.1	58.9	0	31	143	-4.5	Y	
GIW-02	05/11/13	10.1	55.8	0	34.1	143	-5.2	Y	
GIW-02	05/12/13	9.5	57.3	0.1	33.1	135	-4.2	Y	
GIW-02	05/13/13	9.7	60	0	30.3	143	-4.2	Y	
GIW-02	05/14/13	10.1	61.2	0	28.7	143	-4.1	Y	
GIW-02	05/15/13	9.9	58.4	0	31.7	142	-4.3	Y	Installed check valve
GIW-02	05/16/13	10.3	56.4	0	33.3	142	-4.4	Y	
GIW-02	05/17/13	9.7	56.6	0.2	33.5	142	-4.1	Y	
GIW-02	05/18/13	10.6	57.9	0.3	31.2	144	-3.5	Y	
GIW-02	05/19/13	11.2	65.3	0	23.5	142	-2.7	Y	
GIW-02	05/20/13	13.8	63.1	0.1	23	142	-3.8	Y	
GIW-02	05/21/13	13.5	63.5	0.3	22.7	144	-4.5	Y	
GIW-02	05/22/13	13.4	63.6	0.3	22.7	144	-3.7	Y	
GIW-02	05/23/13	10.1	60.5	0	29.4	140	-5.2	Y	Replaced 1-inch rod seal
GIW-02	05/24/13	11.9	59	0.7	28.4	140	-4.4	N	Replaced 4-way valve
GIW-02	05/25/13	11.6	62	0.3	26.1	144	-3.9	Y	
GIW-02	05/26/13	9	54.2	0.5	36.3	143	-4.2	Y	
GIW-02	05/27/13	11	58.7	0.5	29.8	144	-3	Y	
GIW-02	05/28/13	17.7	58.8	0.6	22.9	144	-3.1	Y	
GIW-02	05/29/13	12.4	58.2	0.6	28.8	141	-2.3	Y	Vacuum low, working on header
GIW-02	05/30/13	13.9	63	0.6	22.5	144	-3.2	Y	
GIW-02	05/31/13	10.8	58	0.5	30.7	142	-3.1	Y	
GIW-02	06/01/13	9.8	55.6	0.5	34.1	141	-4.3	Y	
GIW-02	06/02/13	10.1	54.5	0.8	34.6	141	-3.1	Y	
GIW-02	06/03/13	10.2	54.6	0.4	34.8	139	-2.2	Y	Working on available vac issue
GIW-02	06/04/13	12.3	59.7	0.2	27.8	143	-1.1	Y	Working on available vac issue
GIW-02	06/05/13	13.4	62.6	0.4	23.6	144	-1	Y	Working on available vac issue
GIW-02	06/06/13	16.7	56.7	0.7	25.9	148	-2.5	Y	Working on available vac issue
GIW-02	06/07/13	12.9	53.4	0.6	33.1	143	-1.8	Y	Working on available vac issue
GIW-02	06/08/13	13.1	56.1	0.2	30.6	141	-0.9	Y	Sag main header, jumper installed late 6-8
GIW-02	06/09/13	17.9	54	0.7	27.4	142	-3.2	Y	Vacuum restored
GIW-02	06/10/13	10.8	45.8	1.1	42.3	144	-5.1	N	Replaced 4-way valve - pump operating
GIW-02	06/11/13	10.3	48.5	0.6	40.6	141	-4.5	Y	
GIW-02	06/12/13	14.7	48.9	0.3	36.1	147	-4.7	Y	
GIW-02	06/13/13	13.6	49.8	0.6	36	137	-4.6	Y	
GIW-02	06/14/13	14.4	68.3	0.3	17	139	-4	Y	
GIW-02	06/15/13	13.7	50.5	0.7	35.1	141	-3.9	Y	
GIW-02	06/16/13	15.1	72	0.4	12.5	157	-2.4	Y	
GIW-02	06/17/13	12.3	57.3	0.4	30	151	-5.4	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-02	06/18/13	11	56.9	0.4	31.7	144	-4	Y	
GIW-02	06/19/13	10.6	55.8	0.9	32.7	146	-4	Y	
GIW-02	06/20/13	10.7	59.2	0.9	29.2	143	-4.8	Y	
GIW-02	06/21/13	13.7	60	0.3	26	146	-4.3	Y	
GIW-02	06/22/13	11.8	55.4	0.8	32	141	-4.9	Y	
GIW-02	06/23/13	11.2	51.1	1	36.7	146	-4.2	Y	
GIW-02	06/24/13	10.6	48.6	1.6	39.2	139	-4.4	Y	
GIW-02	06/25/13	15.9	52.4	1.2	30.5	145	-3.9	N	Replaced 1-inch rod seal, pump operating
GIW-02	06/26/13	15.6	51.7	1.3	31.4	143	-4	Y	
GIW-02	06/27/13	11.9	45.3	1.6	41.2	143	-4.8	Y	
GIW-02	06/28/13	14.9	56.1	0.5	28.5	146	-4	Y	
GIW-02	06/29/13	12.1	50.9	0.6	36.4	144	-4.7	Y	
GIW-02	06/30/13	12.7	53.5	0.5	33.3	148	-4.8	Y	
GIW-02	07/01/13	12.5	49.7	0.8	37	144	-4	Y	
GIW-02	07/02/13	13.3	51.5	0.5	34.7	140	-4.3	Y	
GIW-02	07/03/13	14	53.3	0.3	32.4	142	-4	Y	
GIW-02	07/04/13	13.6	46.5	0.9	39	144	-4.5	Y	
GIW-02	07/05/13	16.4	54.6	1.2	27.8	147	-4	Y	
GIW-02	07/06/13	19.1	55.6	1.5	23.8	141	-4.3	Y	
GIW-02	07/07/13	13.8	51.1	1.9	33.2	145	-4.3	Y	
GIW-02	07/08/13	14.6	55.1	2.2	28.1	144	-4.2	Y	
GIW-02	07/09/13	11	56.7	2	30.3	144	-3.9	Y	
GIW-02	07/10/13	7.4	61.7	1.8	29.1	136	-4	Y	
GIW-02	07/11/13	6.8	65.6	0.5	27.1	142	-4	Y	
GIW-02	07/12/13	1.9	65.7	0.6	31.8	142	-4	Y	
GIW-02	07/13/13	4.5	72.8	0.4	22.3	144	-4.1	Y	
GIW-02	07/14/13	2	62.2	0.1	35.7	145	-4	N	Repl. rod seals & 4-way valve, operating
GIW-02	07/15/13	2.1	73.8	0	24.1	145	-4.3	Y	
GIW-02	07/17/13	13.1	61	3.7	22.2	164	-4.3	Y	Coll. 49 mins after midnight
GIW-02	07/17/13	3.1	74.3	0.1	22.5	167	-0.2	Y	
GIW-02	07/18/13	11.1	64.9	1.3	22.7	162	-1.3	Y	
GIW-02	07/19/13	7.6	65.2	2	25.2	162	-0.6	Y	
GIW-02	07/20/13	12	66.5	1.7	19.8	160	-1.2	Y	
GIW-02	07/21/13	6.9	65.8	1.8	25.5	155	-0.8	Y	
GIW-02	07/22/13	10.9	59.6	3.3	26.2	157	-1.2	Y	
GIW-02	07/23/13	10.1	63.5	2	24.4	155	-0.8	Y	
GIW-02	07/24/13	12.9	63.1	1.9	22.1	161	-1.1	Y	
GIW-02	07/25/13	2.4	72.8	0.2	24.6	169	-0.6	Y	
GIW-02	07/26/13	9.9	63.8	2.3	23.9	163	-0.5	Y	
GIW-02	07/27/13	12	62.9	1.6	23.5	164	-0.5	Y	
GIW-02	07/28/13	13	62.8	2	22.2	161	-1.1	Y	
GIW-02	07/29/13	8.5	69.3	1.4	20.8	162	-1	Y	
GIW-02	07/30/13	13.2	65	1.4	20.4	164	-1	Y	
GIW-02	07/31/13	9.7	65.6	1.2	23.5	161	-0.5	Y	
GIW-02	08/01/13	11.6	63.9	1.8	22.7	161	-1.4	Y	
GIW-02	08/02/13	11.3	65.3	1.4	22	162	-0.7	Y	
GIW-02	08/03/13	14.2	63.7	1.8	20.3	161	-1.1	Y	
GIW-02	08/04/13	11.3	66.3	1.4	21	160	-0.8	Y	
GIW-02	08/05/13	11.8	65	1.8	21.4	161	-0.4	Y	
GIW-02	08/06/13	8.9	71.2	0.2	19.7	168	-0.4	Y	
GIW-02	08/07/13	8.4	66.3	1.5	23.8	165	-1.1	Y	
GIW-02	08/08/13	11	64	1.8	23.2	161	-1.7	Y	
GIW-02	08/09/13	9.1	65.4	1.9	23.6	167	-1.1	Y	
GIW-02	08/10/13	10.8	63.8	1.9	23.5	166	-1	N	Replaced 4way Valve - Pump operational
GIW-02	08/11/13	10.1	65.1	1.8	23	166	-0.7	Y	
GIW-02	08/12/13	11.4	65.5	1.8	21.3	166	-0.8	Y	
GIW-02	08/13/13	9.2	64.1	1.8	24.9	167	-1.3	Y	
GIW-02	08/14/13	10.5	63.2	1.7	24.6	167	-1.2	Y	
GIW-02	08/15/13	10.3	69	0.5	20.2	167	-1.1	Y	
GIW-02	08/16/13	9.5	66.1	1.5	22.9	165	-1.2	Y	
GIW-02	08/17/13	10.3	64.9	1.6	23.2	167	-1.4	Y	
GIW-02	08/18/13	10.9	66.1	1.6	21.4	167	-0.9	Y	
GIW-02	08/19/13	10.8	67.1	1.2	20.9	168	-1.1	Y	
GIW-02	08/20/13	10.2	66.8	0.9	22.1	166	-1.1	Y	
GIW-02	08/21/13	13.7	67.9	1	17.4	166	-1.1	Y	
GIW-02	08/22/13	14	64.6	1.6	19.8	168	-1.4	Y	
GIW-02	08/23/13	10.9	65.8	1.6	21.7	165	-1.4	Y	
GIW-02	08/24/13	10.8	69.3	1.1	18.8	167	-1.1	N	Replaced 1" rod seal - pump operational
GIW-02	08/25/13	10.3	66.6	1.8	21.3	167	-1.4	Y	
GIW-02	08/26/13	10.1	66.9	1.6	21.4	168	-1.3	Y	
GIW-02	08/27/13	10	65.5	1.9	22.6	166	-1.7	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-02	08/28/13	13.3	74.4	0	12.3	170	-0.3	Y	
GIW-02	08/29/13	9.7	68.4	1.2	20.7	169	-0.9	Y	
GIW-02	08/30/13	10	73.7	0	16.3	170	-0.3	Y	
GIW-02	08/31/13	9.9	65.3	1.1	23.7	166	-1.1	Y	
GIW-02	09/01/13	9.8	69.2	1.8	24.1	166	-1.2	Y	
GIW-02	09/02/13	8.9	66.7	1.8	22.6	164	-1	Y	
GIW-02	09/03/13	15.9	67.4	1.3	15.4	170	-1.2	Y	
GIW-02	09/04/13	10.6	67.1	1.3	21	167	-1	Y	
GIW-02	09/05/13	14.3	68.7	1.8	15.2	165	-1	Y	
GIW-02	09/06/13	7.6	81.3	0	11.1	169	-0.6	Y	
GIW-02	09/07/13	9.5	69.1	1.6	19.8	166	-1.5	Y	
GIW-02	09/08/13	8.3	76	0.4	15.3	168	-1	Y	
GIW-02	09/09/13	8.2	74.4	0.5	16.9	167	-0.8	Y	
GIW-02	09/10/13	16	71.5	2	10.5	150	-1.7	Y	Adjusted vac, reduced O2 to 1.8%
GIW-02	09/11/13	8.1	76.6	1	14.3	166	-1.3	Y	
GIW-02	09/12/13	11.5	68.3	2.6	17.6	164	-1.6	Y	Adjusted vac, reduced O2 to 1.5%
GIW-02	09/13/13	8.6	78.8	0.3	12.3	166	-1	Y	
GIW-02	09/14/13	9.2	72.7	1.9	16.2	159	-1.3	Y	
GIW-02	09/15/13	8.9	78.7	0.3	12.1	158	-1.3	Y	
GIW-02	09/16/13	7.7	69.9	1.4	21	166	-0.9	Y	
GIW-02	09/17/13	7.7	71.8	0.6	19.9	166	-1	Y	
GIW-02	09/18/13	6.7	75.9	0	17.4	164	-1	Y	
GIW-02	09/19/13	6	76	0	18	168	-1.2	Y	
GIW-02	09/20/13	2.1	84.1	0	13.8	170	-1.8	Y	
GIW-02	09/21/13	0.6	76.8	0	22.6	168	-2.1	Y	
GIW-02	09/22/13	0.7	84.3	0.1	14.9	169	-2.1	Y	
GIW-02	09/23/13	0.8	84.3	0	14.9	168	-2.6	Y	
GIW-02	09/25/13	0.7	86.1	0	13.2	168	-4.9	Y	
GIW-02	09/26/13	7.2	80.5	0	12.3	171	-1.7	Y	
GIW-02	09/27/13	1.7	77.1	0	21.2	171	-1.4	Y	
GIW-02	09/28/13	0.6	77.2	0	22.2	168	-5.1	Y	
GIW-02	09/29/13	0.7	77.5	0	21.8	170	-4.3	Y	
GIW-02	09/30/13	0.5	78.8	0	20.7	170	-3.7	Y	
GIW-02	10/01/13	0.6	78.5	0	20.9	165	-3.6	Y	
GIW-02	10/02/13	0.7	78.7	0	20.6	171	-3.1	Y	
GIW-02	10/03/13	0.7	77.7	0	21.6	168	-4.9	Y	
GIW-02	10/04/13	0.6	77.9	0	21.5	167	-4.7	Y	
GIW-02	10/05/13	0.7	86	0	13.3	154	-5.8	Y	
GIW-02	10/06/13	0.6	84.2	0	15.2	140	-6.1	Y	
GIW-02	10/07/13	0.7	84.4	0	14.9	144	-4	Y	
GIW-02	10/08/13	0.9	86.6	0	12.5	156	-1.6	Y	
GIW-02	10/09/13	0.6	85	0	14.4	156	-2.2	Y	
GIW-02	10/10/13	0.8	85.7	0	13.5	156	-3	Y	
GIW-02	10/11/13	0.7	84.9	0	14.4	152	-3	Y	
GIW-02	10/12/13	0.7	85.3	0	14	150	-5.1	Y	
GIW-02	10/13/13	0.5	84.7	0	14.8	152	-4.1	Y	
GIW-02	10/14/13	0.6	79.3	0	20.1	149	-1.5	Y	
GIW-02	10/15/13	0.6	80.2	0	19.2	135	-4.8	Y	
GIW-02	10/16/13	0.8	79.8	0	19.4	155	-2.7	Y	
GIW-02	10/17/13	0.6	77.7	0	21.7	150	-4.4	Y	
GIW-02	10/18/13	0.6	78.5	0	20.9	150	-2.4	Y	
GIW-02	10/19/13	0.6	84.2	0	15.2	154	-5.5	Y	
GIW-02	10/20/13	0.6	76.7	0	22.7	158	-5.1	Y	
GIW-02	10/21/13	0.6	84.3	0	15.1	158	-6.1	Y	
GIW-02	10/22/13	0.7	94.1	0	5.2	142	-4.6	Y	
GIW-02	10/23/13	0.7	93.2	0	6.1	135	-4.9	Y	
GIW-02	10/24/13	0.7	80.3	0	19	121	-4.5	Y	
GIW-02	10/25/13	0.7	80.6	0	18.7	142	-6.1	Y	
GIW-02	10/28/13	0.7	78.1	0	21.2	157	-3.5	Y	
GIW-02	10/29/13	0.7	79.9	0	19.4	151	-4	Y	
GIW-02	10/30/13	0.6	81.2	0	18.2	165	-2	Y	
GIW-02	10/31/13	0.7	81.5	0	17.8	163	-3.1	Y	
GIW-02	11/01/13	0.8	80.4	0	18.8	152	-4	Y	
GIW-02	11/04/13	0.8	80.1	0	19.1	165	-4.5	Y	
GIW-02	11/05/13	5.5	79.7	0	14.8	162	-4.4	Y	
GIW-02	11/06/13	0.7	79.4	0	19.9	154	-4.8	Y	
GIW-02	11/07/13	0.7	78	0	21.3	167	-3.7	Y	
GIW-02	11/08/13	0.7	80.1	0	19.2	165	-4.3	Y	
GIW-02	11/11/13	0.6	77.7	0	21.7	165	-4.8	Y	
GIW-02	11/12/13	0.5	82.9	0	16.6	163	-4.5	Y	
GIW-02	11/13/13	0.6	80.8	0	18.6	166	-4.8	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-02	11/14/13	0.5	82.3	0	17.2	170	-3.5	Y	
GIW-02	11/15/13	0.6	78.6	0	20.8	166	-5.7	N	Need to replace bottom seal
GIW-02	11/18/13	1	81.8	0	17.2	164	-4.1	N	Bottom seal replaced-pump operational
GIW-02	11/19/13	0.7	82	0	17.3	175	0.3	Y	Adjusted vac to -2.6 inches
GIW-02	11/20/13	0.6	76.6	0	22.8	171	-2.7	Y	
GIW-02	11/21/13	0.8	82	0.1	17.1	177	-1.6	Y	
GIW-02	11/22/13	0.7	83.4	0	15.9	164	-3.2	Y	
GIW-02	11/25/13	0.7	86.6	0	12.7	165	-5.8	Y	
GIW-02	11/26/13	0.8	82.2	0	17	167	-2.5	Y	
GIW-02	11/27/13	1.8	81.8	0	16.4	165	-6	Y	
GIW-02	11/28/13	1	75.6	0	23.4	176	7.8	Y	Adjusted vac to -0.2 inches
GIW-02	11/29/13	0.9	84.8	0	14.3	174	10.3	Y	Adjusted vac to -4.3 inches
GIW-02	12/02/13	1.1	76	0	22.9	176	-4.2	Y	
GIW-02	12/03/13	0.8	78	0	21.2	168	-6.6	Y	
GIW-02	12/04/13	0.8	76.7	0	22.5	175	-4.5	Y	
GIW-02	12/05/13	0.7	67.6	3.1	28.6	164	-5.9	Y	
GIW-02	12/09/13	1.1	75.7	0	23.2	157	-4.6	Y	
GIW-02	12/10/13	1	77.9	0	21.1	165	-1.2	Y	
GIW-02	12/11/13	1	78.4	0	20.6	155	-8.3	N	Replaced 4 way valve - pump operational
GIW-02	12/12/13	0.9	76.3	0.4	22.4	149	-10.3	Y	
GIW-02	12/13/13	0.9	79	0	20.1	150	-9.8	Y	
GIW-02	12/16/13	1.2	75.2	0.9	22.7	80	-15.9	Y	
GIW-02	12/17/13	1.6	81.2	0	17.2	93	-4.7	Y	
GIW-02	12/18/13	1	76.7	0	22.3	140	-4.8	Y	
GIW-02	12/19/13	1.2	78	0	20.8	147	-4.9	Y	
GIW-02	12/20/13	1.1	75.9	0	23	140	-4.5	Y	
GIW-02	12/23/13	1.2	76.1	0	22.7	95	-4.6	Y	
GIW-02	12/24/13	1.5	76.3	0	22.2	127	-4.5	Y	
GIW-02	12/25/13	0.9	85	0	14.1	115	-3.7	Y	
GIW-02	12/26/13	1.1	77.3	0	21.6	156	2.4	Y	increased vac to -1.4
GIW-02	12/27/13	1.2	76.4	0	22.4	145	-4.3	Y	
GIW-02	12/30/13	1.1	78.6	0	20.3	145	-6.8	Y	decreased vac to -5.9 inches
GIW-02	12/31/13	1.2	77.1	0.3	21.4	103	-16.6	Y	decreased vac to -15 inches
GIW-02	01/01/14	1.3	78.8	0	19.9	110	-14.5	NA	decreased vac to -11.5 inches
GIW-02	01/03/14	1.2	79.8	0	19	97	13.9	Y	increased vac to -1.6 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-03	04/08/13	3.3	70.1	0	26.6	120	-0.1	N	
GIW-03	04/09/13	3.4	71.9	0	24.7	130	-0.2	Y	
GIW-03	04/10/13	2.2	70.4	0.2	27.2	130	-0.2	Y	
GIW-03	04/11/13	3.2	70.2	0.3	26.3	120	-0.7	Y	
GIW-03	04/12/13	3.4	70.5	0.2	25.9	120	-0.1	Y	
GIW-03	04/13/13	0.6	72.1	0.1	27.2	110	-7.6	Y	
GIW-03	04/14/13	1.7	72	0.1	26.2	130	1.7	Y	
GIW-03	04/15/13	0.7	72.5	0.2	26.6	130	-0.3	Y	
GIW-03	04/16/13	3.2	68.9	0.2	27.7	130	-1.2	Y	
GIW-03	04/17/13	3.1	70.6	0.2	26.1	128	-2.7	Y	
GIW-03	04/18/13	2.7	72.2	0.2	24.9	125	-0.1	Y	
GIW-03	04/19/13	3.2	68.4	0.6	27.8	125	-2.9	Y	
GIW-03	04/20/13	3.2	69	0.3	27.5	132	-2.5	Y	
GIW-03	04/21/13	2.5	71.1	0.7	25.7	130	-1.2	Y	
GIW-03	04/22/13	3.3	76.3	0.4	20	132	-2.8	Y	
GIW-03	04/23/13	2.1	71.3	0.6	26	132	-1.8	Y	
GIW-03	04/24/13	2.4	66.2	0.8	30.6	138	-5.8	Y	
GIW-03	04/25/13	1.9	68.5	0.3	29.3	128	-4.2	Y	
GIW-03	04/26/13	2.7	68.3	0.9	28.1	130	-4.1	Y	
GIW-03	04/27/13	2.7	67	2	28.3	130	-4.5	Y	operating but not moving liquid, will repair
GIW-03	04/28/13	3	71.9	0.3	24.8	130	-4	Y	
GIW-03	04/29/13	2.8	69.9	0.2	27.1	150	-3.3	Y	
GIW-03	04/30/13	2.4	72.1	0.4	25.1	150	-4.3	Y	
GIW-03	05/01/13	2.2	73.6	0.8	23.4	158	-4	Y	
GIW-03	05/02/13	2.5	68.4	1	28.1	135	-5.7	Y	
GIW-03	05/03/13	2.6	65.4	1.4	30.6	138	-4.9	Y	
GIW-03	05/04/13	2.4	69.3	0.4	27.9	138	-4.2	Y	
GIW-03	05/05/13	2.7	70.7	0	26.6	132	-4.7	Y	Begin using fluke temp meter
GIW-03	05/06/13	2.6	70.3	0	27.1	154	-4.4	Y	
GIW-03	05/07/13	2.6	69.7	0.4	27.3	156	-4.7	Y	
GIW-03	05/08/13	2.9	68	0.5	28.6	156	-4.7	Y	
GIW-03	05/09/13	2.9	70.9	0	26.2	134	-3.5	Y	
GIW-03	05/10/13	2.5	72.5	0	25	156	-4.4	Y	
GIW-03	05/11/13	3.4	71.1	0	25.5	153	-6	Y	
GIW-03	05/12/13	3.6	70.3	0	26.1	157	-4	Y	
GIW-03	05/13/13	3	70.5	0	26.5	156	-4.3	Y	
GIW-03	05/14/13	2.5	73	0	24.5	155	-4.1	Y	
GIW-03	05/15/13	2.9	71.1	0	26	147	-4.4	Y	Installed check valve
GIW-03	05/16/13	2.5	69.5	0	28	159	-4.5	Y	
GIW-03	05/17/13	2.5	70.3	0.1	27.1	155	-4.5	Y	
GIW-03	05/18/13	2.6	68.8	0.2	28.4	160	-4	Y	
GIW-03	05/19/13	2.6	71	0.1	26.3	158	-2.6	Y	
GIW-03	05/20/13	2.4	70.3	0	27.3	152	-4.2	Y	
GIW-03	05/21/13	2.4	68.9	0.2	28.5	160	-4.6	Y	
GIW-03	05/22/13	2.9	69.2	0.2	27.7	159	-3.8	Y	
GIW-03	05/23/13	2.7	68.9	0.2	28.2	156	-5.3	Y	
GIW-03	05/24/13	2.6	69.8	0.6	27	160	-4.1	Y	
GIW-03	05/25/13	2.3	70.1	0.2	27.4	161	-4	Y	
GIW-03	05/26/13	2.3	69.7	0.4	27.6	160	-3.9	Y	
GIW-03	05/27/13	3.1	69.4	0.3	27.2	158	-3.4	Y	
GIW-03	05/28/13	5.8	67.5	0.4	26.3	153	-3.7	Y	
GIW-03	05/29/13	2.2	69.6	0.1	28.1	155	-2.8	Y	Vacuum low, working on header
GIW-03	05/30/13	2.8	69	0.4	27.8	159	-3.5	Y	
GIW-03	05/31/13	2.6	70.2	0	27.2	162	-3.5	Y	
GIW-03	06/01/13	2.3	67.5	0	30.2	158	-3.5	Y	
GIW-03	06/02/13	2.5	70.3	0.1	27.1	160	-4	Y	
GIW-03	06/03/13	2.3	68.4	0	29.3	162	-2.1	Y	Working on available vac issue
GIW-03	06/04/13	2.4	70.4	0.1	27.1	158	-1	Y	Working on available vac issue
GIW-03	06/05/13	1.9	67.4	0.6	30.1	154	-0.7	Y	Working on available vac issue
GIW-03	06/06/13	2.5	68.1	0.3	29.1	152	-2.2	Y	Working on available vac issue
GIW-03	06/07/13	2.6	64.7	0.2	32.5	153	-1.7	Y	Working on available vac issue
GIW-03	06/08/13	3.5	65.3	0	31.2	151	-0.7	Y	Sag main header, jumper installed late 6-8
GIW-03	06/09/13	3.9	65.2	0.5	30.4	162	-2.9	Y	Vacuum restored
GIW-03	06/10/13	2.7	65.7	0.4	31.2	164	-5.5	Y	
GIW-03	06/11/13	2.2	66.9	0	30.9	162	-3.9	Y	
GIW-03	06/12/13	3.2	66.4	0	30.4	166	-4	Y	
GIW-03	06/13/13	2	69.4	0	28.6	163	-4.4	Y	
GIW-03	06/14/13	3.9	64	0.1	32	163	-4.5	Y	
GIW-03	06/15/13	6.1	65.6	0.4	27.9	160	-4	Y	
GIW-03	06/16/13	3.1	67.9	0.1	28.9	162	-2.2	Y	
GIW-03	06/17/13	2.7	67.9	0.3	29.1	163	-4.8	Y	
GIW-03	06/18/13	4	68.7	0	27.3	166	-4	Y	
GIW-03	06/19/13	2.7	69.2	0.4	27.7	165	-4	Y	
GIW-03	06/20/13	1.6	73.3	0.4	24.7	166	-4.9	Y	
GIW-03	06/21/13	2.9	67.7	0.2	29.2	165	-4.1	Y	
GIW-03	06/22/13	2.2	64.9	0.9	32	160	-4.5	Y	
GIW-03	06/23/13	4.8	65	0.9	29.3	164	-4	Y	
GIW-03	06/24/13	1.5	63.9	1.5	33.1	161	-4.1	Y	
GIW-03	06/25/13	5	64.2	1.5	29.3	163	-4	Y	
GIW-03	06/26/13	2.7	73.3	0.8	23.2	160	-4	Y	
GIW-03	06/27/13	1.9	62.7	0.5	34.9	163	-4.7	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-03	06/28/13	2.7	69	0.5	27.8	166	-4.2	Y	
GIW-03	06/29/13	2.1	64.9	0.3	32.7	160	-4.5	Y	
GIW-03	06/30/13	1.7	70.9	0.3	27.1	160	-4.1	Y	
GIW-03	07/01/13	1.9	65	0.6	32.5	164	-4.3	Y	
GIW-03	07/02/13	2.1	66.7	0.2	31	162	-4.8	Y	
GIW-03	07/03/13	2.3	66.1	0.2	31.4	169	-4	Y	
GIW-03	07/04/13	2.7	67.2	0.5	29.6	165	-4.1	Y	
GIW-03	07/05/13	2.5	66.9	0.5	30.1	168	-4.1	Y	
GIW-03	07/06/13	1.3	72.5	0	26.2	168	-3.6	Y	
GIW-03	07/07/13	2.6	67.1	0	30.3	164	-4.4	Y	
GIW-03	07/08/13	1.9	67.5	0.4	30.2	164	-4.1	Y	
GIW-03	07/09/13	1.5	69.8	0.4	28.3	168	-3.9	Y	
GIW-03	07/10/13	2.2	71.5	0.4	25.9	161	-4.5	Y	
GIW-03	07/11/13	3.8	68.7	0.3	27.2	169	-3.9	Y	
GIW-03	07/12/13	0.5	72.1	0	27.4	168	-4	Y	
GIW-03	07/13/13	2.2	75.1	0	22.7	170	-4.1	Y	
GIW-03	07/14/13	1.6	69	0	29.4	174	-4.3	Y	
GIW-03	07/15/13	1.5	72	0.1	26.4	166	-4.6	Y	
GIW-03	07/16/13	1.9	75.1	0	23	168	-4.3	Y	
GIW-03	07/17/13	1.3	74.3	0.2	24.2	166	-3.1	Y	
GIW-03	07/18/13	1.7	67	0	31.3	166	-3.6	Y	
GIW-03	07/19/13	1.8	67.2	0.3	30.7	164	-3.7	Y	
GIW-03	07/20/13	1.6	70	0.1	28.3	165	-3	Y	
GIW-03	07/21/13	1.3	71.7	0	27	166	-3.6	Y	
GIW-03	07/22/13	1.6	66.7	0.5	31.2	166	-3.8	Y	
GIW-03	07/23/13	0.9	74	0	25.1	167	-3.9	Y	
GIW-03	07/24/13	2.9	68.1	0.4	28.6	166	-4.2	Y	
GIW-03	07/25/13	2.3	67.8	0.4	29.5	166	-3.7	Y	
GIW-03	07/26/13	1.2	67.3	0.6	30.9	167	-3	Y	
GIW-03	07/27/13	1.3	65.9	0	32.8	165	-3.3	Y	
GIW-03	07/28/13	2.2	67	0.4	30.4	166	-3.4	Y	
GIW-03	07/29/13	1.1	69.4	0	29.5	167	-2.6	Y	
GIW-03	07/30/13	2.5	66.5	0.1	30.9	165	-3.4	Y	
GIW-03	07/31/13	1.1	67	0.4	31.5	166	-2.5	Y	
GIW-03	08/01/13	0.7	73.3	0	26	166	-2.1	Y	
GIW-03	08/02/13	1.1	69.6	0	29.3	166	-2.8	Y	
GIW-03	08/03/13	2.2	68	0.4	29.4	164	-2.7	Y	
GIW-03	08/04/13	1.4	72.6	0.1	25.9	166	-2	Y	
GIW-03	08/05/13	1.8	69.8	0.3	28.1	167	-2.8	Y	
GIW-03	08/06/13	0.9	71.8	0.3	27	166	-1.8	Y	
GIW-03	08/07/13	1	69.3	0	29.7	165	-3.3	Y	
GIW-03	08/08/13	0.9	69.4	0.3	29.4	169	-4	Y	
GIW-03	08/09/13	1	70.2	0.4	28.4	167	-3.4	Y	
GIW-03	08/10/13	0.9	69.9	0.3	28.9	168	-4.2	Y	
GIW-03	08/11/13	0.8	69.7	0.6	28.9	168	-4	Y	
GIW-03	08/12/13	2	70.1	0.4	27.5	167	-3.8	Y	
GIW-03	08/13/13	0.8	68.9	0.5	29.8	167	-4.3	Y	
GIW-03	08/14/13	1.1	66.4	0.2	32.3	167	-4.8	Y	
GIW-03	08/15/13	1.1	68.4	0	30.5	165	-4.2	Y	
GIW-03	08/16/13	1	71.9	0	27.1	167	-3.9	Y	
GIW-03	08/17/13	0.9	72	0	27.1	169	-4.4	Y	
GIW-03	08/18/13	1.1	72.5	0	26.4	167	-3.9	Y	
GIW-03	08/19/13	0.9	70.3	0.1	28.7	170	-4	Y	
GIW-03	08/20/13	1.2	68.1	0	30.7	167	-4.1	Y	
GIW-03	08/21/13	2	71	0	27	166	-3.6	Y	
GIW-03	08/22/13	1.9	71	0	27.1	170	-3.5	Y	
GIW-03	08/23/13	0.8	70.2	0	29	168	-3.2	Y	
GIW-03	08/24/13	2.4	72.9	0	24.7	170	-2.9	Y	
GIW-03	08/25/13	0.7	73.2	0.2	25.9	169	-3.5	Y	
GIW-03	08/26/13	0.5	73.2	0	26.3	168	-3.4	Y	
GIW-03	08/27/13	0.8	70	0	29.2	168	-4	Y	
GIW-03	08/28/13	3.4	73.3	0	23.3	167	-1.6	Y	
GIW-03	08/29/13	1	69.8	0	29.2	168	-3.4	Y	
GIW-03	08/30/13	0.7	71.4	0	27.9	170	-2.6	Y	
GIW-03	08/31/13	0.7	70.2	0	29.1	168	-3.5	Y	
GIW-03	09/01/13	0.7	72.5	0.3	29.8	167	-3.2	Y	
GIW-03	09/02/13	0.7	73.6	0	25.7	167	-3.2	Y	
GIW-03	09/03/13	3.5	72.5	0	24	170	-3.1	Y	
GIW-03	09/04/13	1.1	68.7	0	30.2	168	-2.7	Y	
GIW-03	09/05/13	1.4	76.2	0	22.4	167	-3.3	Y	
GIW-03	09/06/13	0.8	78.1	0	21.1	169	-2	Y	
GIW-03	09/07/13	0.8	76.4	0	22.8	167	-3	Y	
GIW-03	09/08/13	0.7	75.7	0	23.6	168	-2.5	Y	
GIW-03	09/09/13	0.7	76.7	0	22.6	168	-1.6	Y	
GIW-03	09/10/13	3.2	81	0	15.8	168	-2.6	Y	
GIW-03	09/11/13	0.6	80.9	0	18.5	169	-2.1	Y	
GIW-03	09/12/13	2.2	75.1	1	21.7	167	-3.5	Y	
GIW-03	09/13/13	0.6	80.1	0	19.3	168	-2	Y	
GIW-03	09/14/13	0.3	79.4	0.3	20	166	-3.2	Y	
GIW-03	09/15/13	0.7	80.7	0	18.6	165	-3.1	Y	
GIW-03	09/16/13	0.4	74.6	0	25	165	-2.3	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-03	09/17/13	0.4	71.9	0	27.7	168	-2.7	Y	
GIW-03	09/18/13	0.2	75.1	0	24.7	165	-2.1	Y	
GIW-03	09/19/13	0.2	74.3	0	25.5	167	-2.4	Y	
GIW-03	09/20/13	0.3	81.9	0	17.8	166	-1.7	Y	
GIW-03	09/21/13	0.2	76.6	0	23.2	165	-2.3	Y	
GIW-03	09/22/13	0.2	81.6	0	18.2	166	-2.1	Y	
GIW-03	09/23/13	0.3	81.6	0	18.1	167	-2.7	Y	
GIW-03	09/25/13	0.2	83.3	0	16.5	163	-4.8	Y	
GIW-03	09/26/13	0.4	80.4	0	19.2	166	-2.9	Y	
GIW-03	09/27/13	0.1	76.6	0	23.3	164	-2.3	Y	
GIW-03	09/28/13	0.2	77.2	0	22.6	161	-5.4	Y	
GIW-03	09/29/13	0.2	77.2	0	22.6	162	-4.4	Y	
GIW-03	09/30/13	0	76.9	0	23.1	161	-3.6	Y	
GIW-03	10/01/13	0.1	77.6	0	22.3	158	-3.5	Y	
GIW-03	10/02/13	0.2	78.4	0	21.4	133	-3.2	Y	
GIW-03	10/03/13	0.2	80.8	0	19	121	-4.9	Y	
GIW-03	10/04/13	0.3	76.7	0	23	126	-4.7	Y	
GIW-03	10/05/13	0.2	85.1	0	14.7	121	-6	Y	
GIW-03	10/06/13	0.2	83.9	0	15.9	97	-5.9	Y	
GIW-03	10/07/13	0.2	83.9	0	15.9	146	0	Y	Adjusted vac to obtain negative pressure
GIW-03	10/08/13	0.2	85.9	0	13.9	158	5.4	Y	Adjusted vac to obtain negative pressure
GIW-03	10/09/13	0.2	84.2	0	15.6	161	0.4	Y	Adjusted vac to obtain negative pressure
GIW-03	10/10/13	0.3	84.2	0	15.5	156	-2.3	Y	
GIW-03	10/11/13	0.3	84.1	0	15.6	157	-2.4	Y	
GIW-03	10/12/13	0.5	84.4	0	15.1	148	-4.9	Y	
GIW-03	10/13/13	0.2	84.3	0	15.5	154	-3.6	Y	
GIW-03	10/14/13	0.2	77.5	0	22.3	146	-1.8	Y	
GIW-03	10/15/13	0.2	80	0	19.8	140	-4.9	Y	
GIW-03	10/16/13	0.3	78.2	0	21.5	153	-3	Y	
GIW-03	10/17/13	0.2	77.7	0	22.1	145	-4.1	Y	
GIW-03	10/18/13	0.2	77.6	0	22.2	156	-2.7	Y	
GIW-03	10/19/13	0.2	84.3	0	15.5	145	-5.2	Y	
GIW-03	10/20/13	0.2	77.3	0	22.5	147	-5.3	Y	
GIW-03	10/21/13	0.2	83.9	0	15.9	142	-5.8	Y	
GIW-03	10/22/13	0.2	93.3	0	6.5	126	-4.3	Y	
GIW-03	10/23/13	0.2	92.9	0	6.9	136	-4.3	Y	
GIW-03	10/24/13	0.3	79.4	0	20.3	117	-3.9	Y	
GIW-03	10/25/13	0.2	79.3	0	20.5	142	-5.1	Y	
GIW-03	10/28/13	0.2	77.8	0	22	135	-5.1	Y	
GIW-03	10/29/13	0.2	79.4	0	20.4	122	-4.9	Y	
GIW-03	10/30/13	0.2	80	0	19.8	130	-4	Y	
GIW-03	10/31/13	0.2	81.1	0	18.7	126	-4.6	Y	
GIW-03	11/01/13	0.2	81.2	0	18.6	137	-4.3	Y	
GIW-03	11/04/13	0.3	79.2	0	20.5	137	-4.4	Y	
GIW-03	11/05/13	4.9	79.6	0	15.5	136	-4.9	Y	
GIW-03	11/06/13	0.2	79.4	0	20.4	127	-4.4	Y	
GIW-03	11/07/13	0.2	78.4	0	21.4	143	-4	Y	
GIW-03	11/08/13	0.2	80.8	0	19	139	-4.4	Y	
GIW-03	11/11/13	0.2	78	0.1	21.7	160	-4.7	Y	
GIW-03	11/12/13	0.1	84.2	0	15.7	141	-4.8	N	Need new 1" rod seal
GIW-03	11/13/13	0.2	82	0	17.8	147	-4.8	Y	Need new 1" rod seal
GIW-03	11/14/13	0.1	84.1	0	15.8	162	-4.1	Y	Need new 1" rod seal
GIW-03	11/15/13	0.1	80.4	0.1	19.4	151	-4.8	Y	Replaced 1" rod seal - Pump operational
GIW-03	11/18/13	0.4	82	0	17.6	143	-6	Y	
GIW-03	11/19/13	0.2	81.4	0	18.4	156	-6.1	N	Replaced bottom seal - pump operational
GIW-03	11/20/13	0.1	77.4	0	22.5	164	-4.2	Y	
GIW-03	11/21/13	0.8	80.7	0.6	17.9	153	-3.2	Y	
GIW-03	11/22/13	0.2	82	0.6	17.2	137	-3.2	Y	
GIW-03	11/25/13	0.2	77.5	2.7	19.6	139	-7.3	Y	
GIW-03	11/26/13	0.1	73.3	2.3	24.3	140	-5.7	Y	
GIW-03	11/27/13	0.6	80.2	0.7	18.5	150	-4.4	N	Replaced discharge hose - pump operational
GIW-03	11/28/13	0.4	74.9	0	24.7	170	-0.3	Y	
GIW-03	11/29/13	0.2	83	0	16.8	159	-3	Y	
GIW-03	12/02/13	0.2	76.8	0	23	137	-4.4	Y	
GIW-03	12/03/13	0.2	74.7	0.4	24.7	141	-4.2	Y	
GIW-03	12/04/13	0.2	75.3	0.3	24.2	144	-3.9	Y	
GIW-03	12/05/13	0.2	44.6	9.5	45.7	136	-6.7	Y	Reduced vac to -4.1 inches, O2 = 0.2%
GIW-03	12/09/13	0.3	76.4	0.4	22.9	160	-3.4	Y	
GIW-03	12/10/13	0.3	75.1	0	24.6	164	-4	Y	
GIW-03	12/11/13	0.2	76.3	0	23.5	148	-9.4	Y	
GIW-03	12/12/13	0.3	76.2	0	23.5	160	-4.1	Y	
GIW-03	12/13/13	0.3	77.3	0	22.4	165	-4.7	N	Replaced 1" rod seal - pump operational
GIW-03	12/16/13	0.2	77	0	22.8	171	-7.1	Y	
GIW-03	12/17/13	0.7	79.2	0	20.1	171	-2.4	Y	Increased vac to -4.3 inches
GIW-03	12/18/13	0.3	74	0	25.7	162	-4.8	Y	
GIW-03	12/19/13	0.3	76.5	0	23.2	167	-4.8	Y	
GIW-03	12/20/13	0.3	75.7	0	24	172	-4.7	Y	
GIW-03	12/23/13	0.3	74.5	0	25.2	160	-4.8	Y	
GIW-03	12/24/13	0.3	75.9	0	23.8	160	-4.2	Y	
GIW-03	12/25/13	0.1	83.1	0	16.8	176	-10.4	Y	Decreased vac to -5.1 inches
GIW-03	12/26/13	0.3	75.6	0	24.1	178	-0.4	Y	Increased vac to -1.5 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-03	12/27/13	0.3	75.6	0	24.1	176	-4.3	Y	
GIW-03	12/30/13	0.3	76.8	0	22.9	175	-4.5	Y	
GIW-03	12/31/13	0.3	75.2	0	24.5	180	-8.7	N	Decreased vac to -6.4 inches (Replace Rod - Pump Operational)
GIW-03	01/01/14	0.4	76.5	0	23.1	183	-4.9	NA	
GIW-03	01/03/14	0.3	78.2	0	21.5	182	-4.8	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-04	04/08/13	0.4	73.7	0	25.9	150	-0.7	N	
GIW-04	04/09/13	0.4	73.6	0.6	25.4	150	-0.4	Y	
GIW-04	04/10/13	0.4	75.1	0.2	24.3	150	-0.8	Y	
GIW-04	04/11/13	0.5	75.3	0.1	24.1	145	-0.5	Y	
GIW-04	04/12/13	0.5	75	0.1	24.4	140	-1.6	Y	
GIW-04	04/13/13	0.5	74.1	0.1	25.3	140	-2.7	Y	
GIW-04	04/14/13	0.5	78.5	0.1	20.9	160	0.6	Y	
GIW-04	04/15/13	0.6	75.2	0.2	24	160	-0.1	Y	
GIW-04	04/16/13	0.6	73.8	0.3	25.3	142	-0.6	Y	
GIW-04	04/17/13	0.6	74.4	0.2	24.8	145	-1.4	Y	
GIW-04	04/18/13	0.7	76.7	0.2	22.4	140	-2.7	Y	
GIW-04	04/19/13	0.7	73.2	0.5	25.6	145	-3	Y	
GIW-04	04/20/13	0.7	74.1	0.2	25	150	-2.3	Y	
GIW-04	04/21/13	0.7	73.6	0.8	24.9	150	-3.3	Y	
GIW-04	04/22/13	0.7	82.5	0.2	16.6	152	-2.4	Y	
GIW-04	04/23/13	0.8	73.2	0.6	25.4	150	-3.1	Y	
GIW-04	04/24/13	0.5	73.5	0	26	140	-4.8	Y	
GIW-04	04/25/13	0.5	73.2	0	26.3	148	-4.5	Y	
GIW-04	04/26/13	0.5	75.9	0.7	22.9	146	-4.4	Y	
GIW-04	04/27/13	0.6	75	1.1	23.3	160	-4.3	Y	
GIW-04	04/28/13	0.5	77.7	0.5	21.3	142	-4.4	Y	
GIW-04	04/29/13	0.5	77.8	0	21.7	160	-4.5	Y	
GIW-04	04/30/13	0.4	77.2	0.4	22	148	-4.3	Y	
GIW-04	05/01/13	0.4	78.6	0.1	20.9	158	-4.1	Y	
GIW-04	05/02/13	0.5	76.2	0.1	23.2	150	-4.3	Y	
GIW-04	05/03/13	0.5	73.7	0.4	25.4	145	-4.2	Y	
GIW-04	05/04/13	0.5	75.3	0.3	23.9	148	-4.2	Y	
GIW-04	05/05/13	0.4	76.2	0	23.4	143	-4.9	Y	Begin using fluke temp meter
GIW-04	05/06/13	0.5	76.4	0	23.1	152	-4.2	Y	
GIW-04	05/07/13	0.4	74.7	0.4	24.5	155	-4.2	Y	
GIW-04	05/08/13	0.4	74.8	0.2	24.6	151	-4.9	Y	
GIW-04	05/09/13	0.5	76.6	0	22.9	150	-1.1	Y	
GIW-04	05/10/13	0.5	78.1	0	21.4	153	-4.1	Y	
GIW-04	05/11/13	0.6	76.9	0.1	22.4	154	-6.2	Y	
GIW-04	05/12/13	1.8	77.4	0	20.8	144	-4.2	Y	
GIW-04	05/13/13	0.6	76.9	0	22.5	152	-4.1	Y	
GIW-04	05/14/13	0.9	76	0	23.1	153	-4.2	Y	
GIW-04	05/15/13	1.2	77.9	0	20.9	153	-4.4	Y	Installed check valve, replaced 1" rod seal
GIW-04	05/16/13	0.5	73.8	0.5	25.2	155	-4.5	Y	
GIW-04	05/17/13	0.4	75.1	0.6	23.9	155	-4.3	Y	
GIW-04	05/18/13	0.5	73.7	0.8	25	158	-4	Y	
GIW-04	05/19/13	0.4	78	0	21.6	158	-2.9	Y	
GIW-04	05/20/13	0.6	75.5	0.5	23.4	152	-4.2	Y	
GIW-04	05/21/13	0.4	73.8	0.6	25.2	150	-4.6	Y	
GIW-04	05/22/13	1.1	73.5	0.8	24.6	152	-4	Y	
GIW-04	05/23/13	0.5	74.5	0.6	24.4	144	-5.5	Y	
GIW-04	05/24/13	0.4	72.2	0.5	26.9	151	-4.6	Y	
GIW-04	05/25/13	0.8	74.6	0.7	23.9	153	-4.4	Y	
GIW-04	05/26/13	0.9	75	0.7	23.4	148	-4.2	Y	
GIW-04	05/27/13	4.7	74.7	0.5	20.1	152	-3	Y	
GIW-04	05/28/13	2.6	73.9	0.8	22.7	151	-3.5	Y	
GIW-04	05/29/13	0.6	74.4	0.3	24.7	152	-2.3	Y	Vacuum low, working on header
GIW-04	05/30/13	0.9	75	0.4	23.7	154	-3.3	Y	
GIW-04	05/31/13	1.4	75.4	0.3	22.9	153	-3.7	Y	
GIW-04	06/01/13	0.4	75.7	0.2	23.7	150	-3.9	Y	
GIW-04	06/02/13	0.5	77.3	0	22.2	154	-4	N	Replaced 4-way valve - pump operational
GIW-04	06/03/13	0.5	75	0	24.5	152	-2.5	Y	Working on available vac issue
GIW-04	06/04/13	0.5	77	0.3	22.2	153	-1.1	Y	Working on available vac issue
GIW-04	06/05/13	0.2	75.1	0.6	24.1	153	-0.5	Y	Working on available vac issue
GIW-04	06/06/13	0.5	75.2	0.7	23.6	155	-1.7	Y	Working on available vac issue
GIW-04	06/07/13	1.2	70.6	0.5	27.7	152	-1.9	Y	Working on available vac issue
GIW-04	06/08/13	0.6	72.5	0.3	26.6	150	-0.6	Y	Sag main header, jumper installed late 6-8
GIW-04	06/09/13	2.7	72.7	0.6	24	152	-3.1	Y	Vacuum restored
GIW-04	06/10/13	0.3	71	0.7	28	156	-5.1	Y	
GIW-04	06/11/13	0.3	75	0.2	24.5	154	-4.5	Y	
GIW-04	06/12/13	0.3	73.5	0	26.2	155	-4.1	N	Replaced 1-inch rod seal - pump operating
GIW-04	06/13/13	0.2	75.9	0	23.9	149	-4.4	Y	
GIW-04	06/14/13	2.4	71.5	0.3	25.8	155	-4.6	Y	
GIW-04	06/15/13	2.9	73.2	0.4	23.5	156	-4.1	Y	
GIW-04	06/16/13	0.4	75.1	0.1	24.4	158	-3	Y	
GIW-04	06/17/13	0.9	74.6	0.2	24.3	152	-5.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-04	06/18/13	1.7	74.4	0.2	23.7	154	-4.2	Y	
GIW-04	06/19/13	0.3	75.3	0.5	23.9	156	-4	Y	
GIW-04	06/20/13	0.5	79.2	0.5	19.8	156	-4.7	Y	
GIW-04	06/21/13	1.8	75.2	0	23	155	-4.7	Y	
GIW-04	06/22/13	1.8	73.8	0.3	24.1	158	-4.5	Y	
GIW-04	06/23/13	2.6	71.8	0.4	25.2	156	-4	Y	
GIW-04	06/24/13	0.2	73.4	0.3	26.1	151	-4.8	Y	
GIW-04	06/25/13	5.3	74.3	0.3	20.1	154	-4.6	Y	
GIW-04	06/26/13	0	72.5	1	26.5	155	-4.3	Y	
GIW-04	06/27/13	0.8	66.5	1.1	31.6	155	-4.2	Y	
GIW-04	06/28/13	1.8	75.2	0.2	22.8	156	-4.3	Y	
GIW-04	06/29/13	0.3	72.1	0.4	27.2	152	-4.2	Y	
GIW-04	06/30/13	0.4	73.9	0.5	25.2	155	-4.7	Y	
GIW-04	07/01/13	0.3	72.5	0.5	26.7	151	-4	Y	
GIW-04	07/02/13	0.3	74.8	0.2	24.7	153	-4.5	Y	
GIW-04	07/03/13	0.3	74.6	0.1	25	157	-4.1	Y	
GIW-04	07/04/13	1.2	69.8	0.3	28.7	157	-4.1	Y	
GIW-04	07/05/13	0.9	73.5	0.5	25.1	156	-4.2	Y	
GIW-04	07/06/13	0.3	74.8	0	24.9	155	-3.3	Y	
GIW-04	07/07/13	0.9	74.3	0.2	24.6	154	-4.3	Y	
GIW-04	07/08/13	0.3	72.7	1.5	25.5	155	-4.2	Y	
GIW-04	07/09/13	0.3	73	0.7	26	157	-4	Y	
GIW-04	07/10/13	2.6	74.8	0.6	22	151	-4.9	Y	
GIW-04	07/11/13	2.2	68.8	0.5	28.5	151	-4.1	Y	
GIW-04	07/12/13	0.2	73.5	0.1	26.2	157	-4	Y	
GIW-04	07/13/13	1.1	78.7	0.1	20.1	158	-4.2	Y	
GIW-04	07/14/13	0.7	74.4	0	24.9	157	-4.2	Y	
GIW-04	07/15/13	0.4	75.3	0	24.3	155	-4.8	Y	
GIW-04	07/16/13	0.8	80.6	0	18.6	158	-5.1	Y	
GIW-04	07/17/13	0.6	77.4	0.1	21.9	158	-4	Y	
GIW-04	07/18/13	0.3	75	0	24.7	158	-3.7	Y	
GIW-04	07/19/13	0.4	75.2	0.2	24.2	156	-3.9	Y	
GIW-04	07/20/13	0.4	77.3	0.2	22.1	158	-3.3	Y	
GIW-04	07/21/13	0.4	75.9	0.2	23.5	151	-4.2	Y	
GIW-04	07/22/13	0.4	75	0.4	24.2	154	-4.2	Y	
GIW-04	07/23/13	0.4	76.3	0	23.3	156	-4.7	Y	
GIW-04	07/24/13	1.3	73.2	0.4	25.1	155	-4.6	N	Replaced 4 way manifold - pump operational
GIW-04	07/25/13	1.5	74.3	0.4	23.8	155	-3.2	N	Replaced cylinder head - pump operational
GIW-04	07/26/13	0.3	73.2	0.6	25.9	153	-2.4	N	Replaced manifold muffler - pump operational
GIW-04	07/27/13	0.3	72.7	0	27	155	-3	Y	
GIW-04	07/28/13	2.3	73.5	0.2	24	155	-3.1	Y	
GIW-04	07/29/13	0.3	74.2	0	25.5	156	-2.9	Y	
GIW-04	07/30/13	1.9	72.1	0.8	25.2	155	-3.3	Y	
GIW-04	07/31/13	0.3	72.3	0.4	27	154	-2.2	Y	
GIW-04	08/01/13	0.3	75.1	0	24.6	155	-2.4	Y	
GIW-04	08/02/13	0.3	75.2	0	24.5	158	-2.9	Y	
GIW-04	08/03/13	1.3	74.5	0.2	24	156	-3.1	Y	
GIW-04	08/04/13	0.9	75.6	0.2	23.3	156	-2.7	Y	
GIW-04	08/05/13	1	74.8	0.4	23.8	156	-3.1	Y	
GIW-04	08/06/13	0.5	74.9	0.2	24.4	155	-2.1	N	Replaced 4way valve - pump operational
GIW-04	08/07/13	0.2	75.3	0	24.5	157	-3.7	Y	
GIW-04	08/08/13	0.3	74.2	0.1	25.4	156	-4.5	Y	
GIW-04	08/09/13	0.3	74.1	0.4	25.2	159	-4	Y	
GIW-04	08/10/13	0.3	75.2	0	24.5	157	-4.7	Y	
GIW-04	08/11/13	0.3	74.5	0.5	24.7	159	-4.5	Y	
GIW-04	08/12/13	1.8	75.2	0.3	22.7	157	-3.7	Y	
GIW-04	08/13/13	0.2	73.2	0.5	26.1	156	-4.7	Y	
GIW-04	08/14/13	0.4	72.2	0.2	27.2	157	-4.7	Y	
GIW-04	08/15/13	0.5	74.6	0	24.9	157	-4.5	Y	
GIW-04	08/16/13	0.5	75.3	0	24.2	160	-4.2	Y	
GIW-04	08/17/13	0.4	73.6	0	26	156	-4.7	Y	
GIW-04	08/18/13	0.6	75.8	0	23.6	157	-4.2	Y	
GIW-04	08/19/13	0.5	74.2	0	25.3	160	-4.2	Y	
GIW-04	08/20/13	0.6	72.9	0	26.5	157	-4.2	Y	
GIW-04	08/21/13	1.5	73.3	0	25.2	161	-3.9	Y	
GIW-04	08/22/13	1.1	74.8	0	24.1	159	-4.1	N	Repalce 1" rod seal - pump operational
GIW-04	08/23/13	0.3	72.8	0	26.9	160	-3.9	Y	
GIW-04	08/24/13	3.4	77.1	0.1	19.4	161	-3.2	Y	
GIW-04	08/25/13	0.3	77.2	0.4	22.1	158	-3.9	Y	
GIW-04	08/26/13	0.3	75.7	0	24	159	-3.9	Y	
GIW-04	08/27/13	0.3	72.7	0	27	159	-4.5	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-04	08/28/13	3.3	75.1	0	21.6	160	-1.7	Y	
GIW-04	08/29/13	0.4	75	0	24.6	162	-4	Y	
GIW-04	08/30/13	0.3	76.7	0.1	22.9	160	-3.5	Y	
GIW-04	08/31/13	0.3	74.2	0	25.5	157	-3.8	Y	Bottom seal replaced - pump operational
GIW-04	09/01/13	0.4	73.7	0.3	29.6	158	-4.1	Y	
GIW-04	09/02/13	0.3	75.7	0	24	158	-3.9	Y	
GIW-04	09/03/13	3.5	76.6	0.2	19.7	161	-3.9	Y	
GIW-04	09/04/13	0.7	72.8	0	26.5	159	-3.5	Y	
GIW-04	09/05/13	1	82.4	0	16.6	160	-3.6	Y	
GIW-04	09/06/13	0.4	79.5	0	20.1	161	-2.5	Y	
GIW-04	09/07/13	0.4	79	0	20.6	160	-3.4	Y	
GIW-04	09/08/13	0.2	83.8	0	16	158	-3	Y	
GIW-04	09/09/13	0.5	82.8	0	16.7	161	-2.4	Y	
GIW-04	09/10/13	3.5	87.7	0	8.8	162	-3.5	Y	
GIW-04	09/11/13	0.3	88.4	0	11.3	161	-2.7	Y	
GIW-04	09/12/13	2.3	85.8	0	11.9	160	-4.1	Y	
GIW-04	09/13/13	0.4	86.5	0	13.1	161	-2.5	Y	
GIW-04	09/14/13	0.2	86.7	0.3	12.8	159	-3.6	Y	
GIW-04	09/15/13	0.5	86.7	0.1	12.7	158	-3.1	N	Replaced 4 way valves-pump operational
GIW-04	09/16/13	0.3	79.7	0	20	157	-2.7	Y	
GIW-04	09/17/13	0.3	79	0	20.7	160	-2.6	Y	
GIW-04	09/18/13	0.2	79.3	0	20.5	159	-2.3	Y	
GIW-04	09/19/13	0.3	78.6	0	21.1	157	-2.3	Y	Replaced four way valve-pump operational
GIW-04	09/20/13	0.3	87.5	0	12.2	160	-2.4	Y	
GIW-04	09/21/13	0.2	79.1	0	20.7	158	-2.7	Y	
GIW-04	09/22/13	0.3	86.2	0.1	13.4	164	-2.2	Y	
GIW-04	09/23/13	0.4	86.3	0	13.3	161	-2.6	Y	
GIW-04	09/25/13	0.2	85.3	0.3	14.2	156	-5	Y	
GIW-04	09/26/13	0.6	84.1	0.4	14.9	156	-3.1	Y	
GIW-04	09/27/13	0.1	76.7	0.2	23	103	-2.2	NA	Removed pump-installed cooling loop
GIW-04	09/28/13	0.2	75.9	0	23.9	90	-5.3	NA	Removed pump-installed cooling loop
GIW-04	09/29/13	0.2	75.4	0.1	24.3	86	-5	NA	
GIW-04	09/30/13	0.1	76.1	0.3	23.5	91	-3.9	NA	
GIW-04	10/01/13	0.1	74.7	0.2	25	83	-4	NA	
GIW-04	10/02/13	0.2	73.3	0.8	25.7	99	-3	NA	
GIW-04	10/03/13	0.2	78.4	0.4	21	93	-4.7	NA	
GIW-04	10/04/13	0.2	74.3	0	25.5	94	-3.5	NA	
GIW-04	10/05/13	0.2	84.8	0.2	14.8	87	-5.4	NA	
GIW-04	10/06/13	0.2	80.8	0.1	18.9	70	-5.8	NA	
GIW-04	10/07/13	0.2	80.7	0.2	18.9	79	-3.9	NA	
GIW-04	10/08/13	0.7	83.6	0	15.7	91	-1.5	NA	
GIW-04	10/09/13	0.3	80.4	0.4	18.9	88	-2.2	NA	
GIW-04	10/10/13	0.4	81	0.4	18.2	91	-2.6	NA	
GIW-04	10/11/13	0.2	80.4	0.5	18.9	82	-3	NA	
GIW-04	10/12/13	0.4	80.2	0.6	18.8	82	-4.5	NA	
GIW-04	10/13/13	0.1	81.8	0.3	17.8	83	-3	NA	
GIW-04	10/14/13	0.2	81.3	0.2	18.3	75	-1.5	NA	
GIW-04	10/15/13	0.1	72.1	0.3	27.5	75	-4.7	NA	
GIW-04	10/16/13	0.2	76.8	0.3	22.7	70	-2.5	NA	
GIW-04	10/17/13	0.2	69.9	0.3	29.6	76	-3.4	NA	
GIW-04	10/18/13	0.2	78.2	0.5	21.1	73	-2.7	NA	
GIW-04	10/19/13	0.1	74.5	0.5	24.9	72	-4.8	NA	
GIW-04	10/20/13	0.2	75.3	0.4	24.1	80	-5.2	NA	
GIW-04	10/21/13	0.1	73.5	0.5	25.9	69	-5.7	NA	
GIW-04	10/22/13	0.1	83.3	0	16.6	66	-3.4	NA	
GIW-04	10/23/13	0.2	94.6	0	5.2	65	-3.9	NA	
GIW-04	10/24/13	0.2	80.6	0.7	18.5	54	-4	NA	
GIW-04	10/25/13	0.2	71.2	0.6	28	64	-5.5	NA	
GIW-04	10/28/13	0.2	73.5	0.5	25.8	73	-4.9	NA	
GIW-04	10/29/13	0.2	75.1	0.6	24.1	63	-4.7	NA	
GIW-04	10/30/13	0.1	77.3	0.4	22.2	77	-3.3	NA	
GIW-04	10/31/13	0.2	77.3	0.6	21.9	71	-4	NA	
GIW-04	11/01/13	0.2	79	0.6	20.2	65	-4.2	NA	
GIW-04	11/04/13	0.4	75.5	0.6	23.5	63	-4.6	NA	
GIW-04	11/05/13	5.1	75.9	0.7	18.3	68	-4.8	NA	
GIW-04	11/06/13	0.2	76.5	0.6	22.7	55	-4.3	NA	
GIW-04	11/07/13	0.2	74.9	0.7	24.2	64	-4.2	NA	
GIW-04	11/08/13	0.2	76.9	0.7	22.2	68	-4.9	NA	
GIW-04	11/11/13	0.1	75.2	0.6	24.1	63	-5.3	NA	
GIW-04	11/12/13	0.1	79.7	0.9	19.3	50	-5.2	NA	
GIW-04	11/13/13	0.1	77.5	1	21.4	55	-5.7	NA	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-04	11/14/13	0.1	81.4	0.6	17.9	67	-3.7	NA	
GIW-04	11/15/13	0.1	77.6	0.5	21.8	60	-2.4	NA	
GIW-04	11/18/13	0.4	78.7	0.8	20.1	65	-6.2	NA	
GIW-04	11/19/13	0.2	78.6	0.9	20.3	63	-5.5	NA	
GIW-04	11/20/13	0	75.2	0.6	24.2	52	-4.2	NA	
GIW-04	11/21/13	0.9	79.9	0.7	18.5	59	-4	NA	
GIW-04	11/22/13	0.1	81.6	0.3	18	48	-3.5	NA	
GIW-04	11/25/13	0.1	82	0.7	17.2	46	-6.3	NA	
GIW-04	11/26/13	0.1	75.9	0.8	23.2	48	-4.8	NA	
GIW-04	11/27/13	1.4	75.6	0.7	22.3	41	-6.6	NA	
GIW-04	11/28/13	0.2	72.7	0.5	26.6	52	-4.2	NA	
GIW-04	11/29/13	0.2	76.8	0.7	22.3	58	-5.4	NA	
GIW-04	12/02/13	0.1	72.3	0.7	26.9	59	-4.7	NA	
GIW-04	12/03/13	0.1	72	0.8	27.1	65	-5	NA	
GIW-04	12/04/13	0.2	73.5	0.4	25.9	67	-4.8	NA	
GIW-04	12/05/13	0.2	70.6	1.2	28	40	-4.1	NA	
GIW-04	12/09/13	0.2	79.5	0.3	20	95	-4.8	NA	
GIW-04	12/10/13	0.2	75.2	0.8	23.8	101	-4.7	NA	
GIW-04	12/11/13	0.3	78	0.4	21.3	124	-4.1	NA	
GIW-04	12/12/13	0.3	78.7	0	21	134	-0.2	NA	
GIW-04	12/24/13	0.3	74.4	0.4	24.9	91	-17.2	NA	Reduced vac to -14.2 inches
GIW-04	12/30/13	0.3	72	1.6	26.1	72	-20.8	NA	Reduced vac to -18 inches
GIW-04	12/31/13	0.3	73.2	1.3	25.2	105	-16.7	NA	Reduced vac to -14.1 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-05	04/08/13	0.2	72.4	0	27.4	160	-0.1	N	
GIW-05	04/09/13	0.6	66.7	2.5	30.2	170	-0.3	Y	
GIW-05	04/10/13	0.3	72.5	0.3	26.9	170	-0.2	Y	
GIW-05	04/11/13	0.3	73.2	0.2	26.3	165	-0.5	Y	
GIW-05	04/12/13	0.3	72.5	0.2	27	160	-0.7	Y	
GIW-05	04/13/13	0.3	72.2	0.2	27.3	160	-0.9	Y	
GIW-05	04/14/13	0.2	75.1	0.2	24.5	160	1	Y	
GIW-05	04/15/13	0.7	72.3	0.3	26.7	170	-0.5	Y	
GIW-05	04/16/13	0.9	71.6	0.2	27.3	170	-1.8	Y	
GIW-05	04/17/13	1.8	71.3	0.3	26.6	160	-2.2	Y	
GIW-05	04/18/13	0.3	74.2	0.2	25.3	165	-1	Y	
GIW-05	04/19/13	1.8	69.4	1.2	27.6	165	-2.9	Y	
GIW-05	04/20/13	0.3	71.3	0.2	28.2	165	-2.6	Y	
GIW-05	04/21/13	1.1	70	0.8	28.1	172	-3	Y	
GIW-05	04/22/13	0.2	79.6	0.3	19.9	170	-2	Y	
GIW-05	04/23/13	0.4	71	0.5	28.1	170	-4.2	Y	
GIW-05	04/24/13	0.2	71.1	0	28.7	160	-4.3	Y	
GIW-05	04/25/13	0.3	69.9	0	29.8	165	-4.4	Y	
GIW-05	04/26/13	0.1	73.6	0.2	26.1	166	-4.6	Y	Removed B-Hawk, Installed AP4 Pump
GIW-05	04/27/13	0.2	74.3	0.6	24.9	155	-4.7	N	New AP4 not operating, will repair
GIW-05	04/28/13	0.1	75.7	0.3	23.9	150	-4.4	N	New AP4 not operating, will repair
GIW-05	04/29/13	0	75.6	0	24.4	160	-4.4	N	Replacing AP4 with Blackhawk
GIW-05	04/30/13	0	74.8	0.5	24.7	165	-4.3	N	Pump replaced will be operational today
GIW-05	05/01/13	0	77.4	0	22.6	160	-4.5	N	Operating but not moving liquid, will repair
GIW-05	05/02/13	0.1	74.1	0.1	25.7	165	-4.8	N	Operating but not moving liquid, will repair
GIW-05	05/03/13	0.2	71.6	0.4	27.8	160	-4.4	N	Operating but not moving liquid, will repair
GIW-05	05/04/13	0.1	72.1	0.5	27.3	160	-4.6	N	Operating but not moving liquid, will repair
GIW-05	05/05/13	0	74.6	0	25.4	161	-4.4	N	Begin using fluke temp meter
GIW-05	05/06/13	0.1	74.4	0	25.5	167	-4.9	Y	Pump repaired, moving liquid
GIW-05	05/07/13	0.1	70.9	0.6	28.4	170	-4.9	Y	
GIW-05	05/08/13	0.7	69.5	0.2	29.6	183	-4.4	Y	
GIW-05	05/09/13	0.2	73	0	26.8	179	-1.7	Y	
GIW-05	05/10/13	0.2	72.6	0	27.2	184	-3.7	Y	
GIW-05	05/11/13	0.5	71.3	0	28.2	186	-5.8	Y	
GIW-05	05/12/13	1	70	0	29	178	-4	Y	
GIW-05	05/13/13	0.2	70.1	0	29.7	187	-4.2	Y	
GIW-05	05/14/13	0.3	67.6	0	32.1	188	-4.1	Y	
GIW-05	05/15/13	1.4	71.3	0	27.3	184	-4.7	Y	
GIW-05	05/16/13	0.1	71.8	0.1	28	178	-4.7	Y	Installed check valve
GIW-05	05/17/13	0.1	71.9	0	28	180	-4	Y	Replaced 4-way valve
GIW-05	05/18/13	0.3	71.1	0.4	28.2	175	-4.6	Y	
GIW-05	05/19/13	3.7	68	0.5	27.8	182	-4.1	Y	Replaced pump head
GIW-05	05/20/13	0.9	70	0.2	28.9	182	-4.7	Y	
GIW-05	05/21/13	0.4	69.3	0.3	30	183	-4.7	Y	
GIW-05	05/22/13	0.7	68.5	0.5	30.3	184	-4.4	Y	
GIW-05	05/23/13	0.7	69.1	0.4	29.8	186	-4.9	Y	
GIW-05	05/24/13	0.1	67.2	0.7	32	180	-4.1	N	Replaced 4-way valve.
GIW-05	05/25/13	0.6	71.3	0.2	27.9	180	-4.6	Y	
GIW-05	05/26/13	1	69.6	0.9	28.5	182	-4.8	N	Replaced 4-way valve - pump operating
GIW-05	05/27/13	5.7	71	0.5	22.8	181	-4.1	Y	
GIW-05	05/28/13	0.7	69.6	0.8	28.9	182	-4.9	N	Replaced 4-way valve - pump operating
GIW-05	05/29/13	0.4	69.2	0.5	29.9	186	-5.3	Y	
GIW-05	05/30/13	1.5	68.7	0.5	29.3	187	-4	Y	
GIW-05	05/31/13	2.2	69.5	0.2	28.1	188	-4	Y	
GIW-05	06/01/13	0.4	67.3	0	32.3	190	-4.6	Y	
GIW-05	06/02/13	0.4	70.8	0	28.8	189	-4.2	Y	
GIW-05	06/03/13	0.2	69.8	0.3	29.7	185	-4.5	Y	
GIW-05	06/04/13	0.1	68	1.3	30.6	181	-4.3	Y	
GIW-05	06/05/13	2.2	68.5	1.3	28	181	-4.6	Y	
GIW-05	06/06/13	0	68.3	1.6	30.1	181	-8	Y	
GIW-05	06/07/13	1.6	65.3	0.9	32.2	176	-4.4	Y	
GIW-05	06/08/13	1.7	69.1	0.7	28.5	177	-4.3	Y	
GIW-05	06/09/13	0.2	70.4	0.2	29.2	178	-4.7	Y	Changed air box
GIW-05	06/10/13	0.2	70.8	0.3	28.7	177	-5.4	N	Replaced 4-way valve - pump operating
GIW-05	06/11/13	0.1	71.8	0	28.1	180	-4.3	Y	
GIW-05	06/12/13	0.1	72	0	27.9	178	-5	Y	
GIW-05	06/13/13	0.1	73.5	0	26.4	175	-4.3	Y	
GIW-05	06/14/13	1.3	69	0.3	29.4	179	-4.6	Y	Replaced air box
GIW-05	06/15/13	1.4	69.6	0.5	28.5	179	-4.1	N	Replaced air box
GIW-05	06/16/13	0.2	71.9	0.1	27.8	178	-4.4	Y	
GIW-05	06/17/13	0.3	72.2	0.1	27.4	174	-4.2	N	Rod separated from pump head
GIW-05	06/18/13	0	70.8	0.4	28.8	171	-4.1	N	Pump head repair complete, operational
GIW-05	06/19/13	0.3	72	0.6	27.1	168	-4.8	Y	Bottom seal bad, replaced
GIW-05	06/20/13	0	75.5	0.7	23.8	174	-4.7	Y	
GIW-05	06/21/13	0.4	72.2	0	27.4	174	-4.5	Y	
GIW-05	06/22/13	0.3	70.7	0.4	28.6	174	-4.4	Y	
GIW-05	06/23/13	0.7	69.3	0.2	29.8	176	-4.3	Y	
GIW-05	06/24/13	0	70.6	0.1	29.3	178	-4.9	Y	
GIW-05	06/25/13	2.3	71.5	0.4	25.8	180	-4.6	N	FG rod damaged, replaced, operational

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-05	06/26/13	0	70.6	0.4	29	177	-4.3	Y	
GIW-05	06/27/13	1	59.1	0.2	39.7	174	-4.3	N	Replaced 1-inch rod seal, pump operating
GIW-05	06/28/13	0.7	70.5	0.6	28.2	181	-4.4	N	Replaced cylinder cap, pump operating
GIW-05	06/29/13	0.2	66.2	0.4	33.2	178	-4.5	Y	
GIW-05	06/30/13	2	67.5	0.2	30.3	178	-4.2	Y	
GIW-05	07/01/13	4.5	65.1	0.9	29.5	182	-4	Y	
GIW-05	07/02/13	2.4	66.8	0.3	30.5	183	-4.5	Y	
GIW-05	07/03/13	2.7	64.8	0.3	32.2	181	-4.1	Y	
GIW-05	07/04/13	3	62.6	0.4	34	182	-4.1	Y	
GIW-05	07/05/13	2.5	65	0.5	32	180	-3.9	Y	
GIW-05	07/06/13	2.4	67.2	0	30.4	178	-4.3	Y	
GIW-05	07/07/13	3.9	66.9	0	29.2	184	-4	Y	
GIW-05	07/08/13	2.5	65	0.7	31.8	183	-4.6	Y	
GIW-05	07/09/13	3.4	66	0.9	29.7	180	-4.7	Y	
GIW-05	07/10/13	5.5	67.2	0.8	26.5	182	-4.7	Y	
GIW-05	07/11/13	8	63.8	0.5	27.7	183	-4.1	Y	
GIW-05	07/12/13	2.3	66.3	0	31.4	182	-4.1	Y	
GIW-05	07/13/13	3.3	69.8	0	26.9	193	-4.3	N	Poss Temp error-Repl 4-way valve, oprating
GIW-05	07/14/13	2.1	67.5	0	30.4	184	-4.1	Y	
GIW-05	07/15/13	2.4	71	0	26.6	186	-4.2	Y	
GIW-05	07/16/13	3.7	72.1	0	24.2	190	-4	Y	
GIW-05	07/17/13	2.5	70.9	0.1	26.5	187	-1.9	Y	
GIW-05	07/18/13	2.4	67.9	0	29.7	188	-2.8	Y	
GIW-05	07/19/13	3.1	68.3	0.1	28.5	187	-4.6	Y	
GIW-05	07/20/13	3.5	67.9	0.2	28.4	186	-3.2	Y	
GIW-05	07/21/13	2.5	68.1	0.2	29.2	185	-4.4	Y	
GIW-05	07/22/13	2.1	67.5	0.3	30.1	191	-4	Y	
GIW-05	07/23/13	0.3	69.2	0.2	30.3	189	-4.7	Y	
GIW-05	07/24/13	1.8	67.3	0.5	30.4	187	-4.1	Y	
GIW-05	07/25/13	0.1	71.5	0.4	28	189	-4.7	N	Replaced 4 way valve - pump operational
GIW-05	07/26/13	3	69.2	0.5	27.3	192	-0.5	Y	pressure error -hose kink with gem
GIW-05	07/27/13	0.1	67.6	0.4	31.9	189	-3.9	Y	
GIW-05	07/28/13	1.3	69.1	0.2	29.4	189	-4.5	Y	
GIW-05	07/29/13	0.2	69.1	0.2	30.5	189	-4.1	N	New seals replaced, pump operating
GIW-05	07/30/13	1.3	68.3	0	30.4	189	-4.1	Y	
GIW-05	07/31/13	0.1	66.2	0.5	33.2	190	-3.4	Y	
GIW-05	08/01/13	0.1	68.9	0.2	30.8	190	-5.1	Y	
GIW-05	08/02/13	0.1	69.2	0	30.7	192	-4	Y	
GIW-05	08/03/13	1.1	68.6	0.4	29.9	190	-4.7	Y	
GIW-05	08/04/13	0.9	69.5	0.4	29.2	190	-4.4	Y	
GIW-05	08/05/13	0.9	70.1	0.1	28.9	189	-4.7	Y	
GIW-05	08/06/13	0.5	70.7	0.1	28.7	189	-4.1	N	Replace 1" rod seals - pump operational
GIW-05	08/07/13	0	71.1	0	28.9	185	-4.8	Y	
GIW-05	08/08/13	0.2	70.1	0.1	29.6	189	-4.9	Y	
GIW-05	08/09/13	0.2	70.2	0.4	29.2	189	-4.2	Y	
GIW-05	08/10/13	0.1	70.1	0.3	29.5	189	-4.8	N	Replace 1" rod seals - pump operational
GIW-05	08/11/13	0.4	70.9	0.8	27.9	190	-4.5	Y	
GIW-05	08/12/13	2	70.5	0.5	27	191	-4.2	Y	
GIW-05	08/13/13	0.1	69.6	0.6	29.7	190	-4.7	Y	
GIW-05	08/14/13	0.4	68.3	0.4	30.9	189	-4.5	Y	
GIW-05	08/15/13	0.3	71.1	0	28.6	188	-4.5	Y	
GIW-05	08/16/13	0.4	71.4	0	28.2	190	-4.5	Y	
GIW-05	08/17/13	0.3	71.8	0	27.9	189	-4.7	Y	
GIW-05	08/18/13	0.5	71.7	0.1	27.7	189	-4.8	Y	
GIW-05	08/19/13	0.4	71.4	0.1	28.1	193	-4.2	Y	
GIW-05	08/20/13	0.4	72.1	0	27.5	190	-4.3	Y	
GIW-05	08/21/13	1.3	70	0	28.7	190	-4.5	Y	
GIW-05	08/22/13	1	71.8	0	27.2	188	-4.5	Y	
GIW-05	08/23/13	0.2	72.4	0	27.4	191	-4.3	Y	
GIW-05	08/24/13	11.3	71.7	0.3	16.7	188	-2.8	Y	
GIW-05	08/25/13	0.2	73.2	0.3	26.3	189	-4.5	Y	
GIW-05	08/26/13	0.2	74.3	0	25.5	187	-4.1	Y	
GIW-05	08/27/13	0.2	74.6	0	25.2	191	-4.6	Y	Replaced fiberglass rod - pump operational
GIW-05	08/28/13	0.1	69.6	0.8	29.5	191	-4.1	N	Replaced pump - pump operational
GIW-05	08/29/13	3.2	72.9	0	23.9	191	-6.3	N	Reinstalled pump - pump operational
GIW-05	08/30/13	0.2	70.2	0.8	28.8	191	-4.6	Y	
GIW-05	08/31/13	0.2	70.4	0.1	29.3	190	-4.4	Y	
GIW-05	09/01/13	0.2	71.5	0.4	29.1	191	-4.2	Y	
GIW-05	09/02/13	0.2	74	0.1	25.7	191	-4.2	Y	
GIW-05	09/03/13	6.5	69.7	0.6	23.2	194	-4.3	N	Replaced 1" rod seal - pump operational
GIW-05	09/04/13	0.6	72.1	0	27.3	194	-4.2	Y	
GIW-05	09/05/13	0.6	77	0	22.4	193	-4.7	N	Replaced 4 way valve - pump operational
GIW-05	09/06/13	0.2	78.1	0.1	21.6	194	-3.8	N	Replaced 1" rod seal - pump operational
GIW-05	09/07/13	0.3	78	0	21.7	192	-4.7	Y	
GIW-05	09/08/13	0.1	78	0	21.9	193	-2.8	Y	
GIW-05	09/09/13	0.3	77.2	0	22.5	194	-2.3	Y	
GIW-05	09/10/13	4.4	80.9	0.3	14.4	190	-4.7	Y	
GIW-05	09/11/13	0.1	82	0	17.9	191	-3.9	N	Replaced 4 way valve - pump operational
GIW-05	09/12/13	2.9	79.4	0	17.7	191	-4.3	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-05	09/13/13	1.4	79.9	0	18.7	194	-3	Y	
GIW-05	09/14/13	0	80.1	0.3	19.6	188	-4.3	Y	
GIW-05	09/15/13	0.5	80.2	0.2	19.1	189	-4.4	Y	
GIW-05	09/16/13	0.1	75.7	0	24.2	193	-2.6	Y	
GIW-05	09/17/13	0.1	73.9	0	26	194	-2.8	Y	Replaced 4way manifold-pump operational
GIW-05	09/18/13	0	75.1	0	24.9	194	-2.1	Y	
GIW-05	09/19/13	0.2	74.2	0	25.6	193	-2.2	Y	
GIW-05	09/20/13	0.2	80.6	0	19.2	192	-2.7	Y	
GIW-05	09/21/13	0.2	78.5	0	21.3	191	-2	Y	
GIW-05	09/22/13	0.1	79.8	0	20.1	195	-1.9	N	New pump installed - pump operational
GIW-05	09/23/13	0.2	79.6	0	20.2	193	-2.4	Y	
GIW-05	09/25/13	0.2	80.1	0.1	19.6	192	-4.3	Y	
GIW-05	09/26/13	0.6	78.7	0	20.7	193	-2.9	Y	
GIW-05	09/27/13	0	74.9	0	25.1	194	-0.7	N	Replaced 4 way valve - pump operational
GIW-05	09/28/13	0.2	74.6	0	25.2	194	-3.5	Y	
GIW-05	09/29/13	0.2	74.5	0	25.3	194	-3.5	Y	
GIW-05	09/30/13	0.1	75	0	24.9	195	-3	Y	
GIW-05	10/01/13	0.1	74.6	0	25.3	192	-2.7	Y	
GIW-05	10/02/13	0.1	17.4	16.3	66.2	172	-1.7	Y	loose bolts on flange - adjustment made and decreased O2 to
GIW-05	10/03/13	0.2	77	0	22.8	194	-0.8	Y	
GIW-05	10/04/13	0.2	72.3	0	27.5	192	-0.7	N	Replaced 1" rod seal - pump operational
GIW-05	10/05/13	0.2	79.5	0.2	20.1	191	-1.8	N	Replaced 1" rod seal - pump operational
GIW-05	10/06/13	0.2	74.2	1.2	24.4	192	-4	Y	
GIW-05	10/07/13	0.2	75.6	0.9	23.3	190	-3	Y	
GIW-05	10/08/13	0.7	80	0	19.3	193	-0.4	Y	
GIW-05	10/09/13	0.4	76.3	0.9	22.4	194	-1.9	Y	
GIW-05	10/10/13	0.5	78.9	0	20.6	195	-2.1	Y	Installed new PCP - pump operational
GIW-05	10/11/13	0.3	77.4	0.4	21.9	202	7.2	Y	Adjusted vac to obtain negative pressure
GIW-05	10/12/13	0.5	76.7	0	22.8	202	4.2	Y	Adjusted vac to obtain negative pressure
GIW-05	10/13/13	0.1	75.5	0	24.4	202	3.9	Y	
GIW-05	10/14/13	0.2	77.1	0	22.7	201	5.1	N	Well dewatered
GIW-05	10/15/13	0.2	72.4	0	27.4	181	-2.3	N	Well dewatered
GIW-05	10/16/13	0.2	74.1	0	25.7	163	-3.4	N	Well dewatered
GIW-05	10/17/13	0.2	71.6	0	28.2	175	-2.4	N	Well dewatered
GIW-05	10/18/13	0.2	73.1	0	26.7	172	-2.3	N	Well dewatered
GIW-05	10/19/13	0.2	79	0	20.8	160	-3	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/20/13	0.2	73.8	0	26	179	-3.8	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/21/13	0.2	79.2	0	20.6	173	-4.6	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/22/13	0.3	88.4	0	11.3	181	-3.5	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/23/13	0.2	86.8	0	13	178	-3.3	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/24/13	0.3	74.6	0	25.1	163	-1.9	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/25/13	0.2	74.5	0	25.3	185	-3.5	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/28/13	0.2	72.4	0	27.4	191	-1.7	N	Programing issue with pump - service repair 10/30/2013
GIW-05	10/29/13	0.2	74.4	0	25.4	184	-3.3	N	Programing issue with pump - service repair 10/30/2014
GIW-05	10/30/13	0.1	73.7	0	26.2	205	12	N	Well dewatered
GIW-05	10/31/13	0.3	74.5	0.1	25.1	187	-3.3	N	Well dewatered
GIW-05	11/01/13	0.2	75.7	0	24.1	181	-3.1	N	Well dewatered
GIW-05	11/04/13	0.4	74.4	0	25.2	185	-2.7	N	Well dewatered
GIW-05	11/05/13	6.2	74.5	0	19.3	186	-3.5	N	Well dewatered
GIW-05	11/06/13	0.2	74.8	0	25	173	-3.6	N	Well dewatered
GIW-05	11/07/13	0.2	73.4	0	26.4	186	-2.1	N	Well dewatered
GIW-05	11/08/13	0.2	75.2	0	24.6	186	-2.7	N	Well dewatered
GIW-05	11/11/13	0.2	74	0	25.8	187	-2.7	N	Well dewatered
GIW-05	11/12/13	0.1	79.3	0	20.6	182	-2.6	N	Well dewatered
GIW-05	11/13/13	0.2	77.5	0	22.3	185	-3.6	N	Well dewatered
GIW-05	11/14/13	0.2	78.7	0	21.1	183	-3.5	N	Well dewatered
GIW-05	11/15/13	0.1	74.9	0	25	188	-3.2	N	Well dewatered
GIW-05	11/18/13	0.1	76.3	0	23.6	183	-4.1	N	Well dewatered
GIW-05	11/19/13	0.3	75.9	0	23.8	193	-3.6	N	Well dewatered
GIW-05	11/20/13	0.1	71.7	0	28.2	190	-3.4	N	Well dewatered
GIW-05	11/21/13	0.1	76.4	0	23.5	190	-3.3	N	Well dewatered
GIW-05	11/22/13	0.1	78	0	21.9	175	-3.1	N	Well dewatered
GIW-05	11/25/13	0.2	79.1	0	20.7	195	-4.3	N	Well dewatered
GIW-05	11/26/13	0.1	70.8	0.4	28.7	187	-6.4	Y	Blackhawk pump re-installed - pump operational
GIW-05	11/27/13	0.2	77.1	0	22.7	181	-6.5	Y	
GIW-05	11/28/13	0.2	71.8	0	28	183	-2.8	Y	
GIW-05	11/29/13	0.2	76.8	0	23	186	-4.8	Y	
GIW-05	12/02/13	0.2	72.9	0	26.9	185	-4.3	Y	
GIW-05	12/03/13	0.2	72.4	0	27.4	182	-4.7	Y	
GIW-05	12/04/13	0.2	74.2	0	25.6	183	-4.5	Y	
GIW-05	12/05/13	0.2	56.9	4.3	38.6	165	-5.5	Y	Reduced vac to -4.5, O2 = 0%
GIW-05	12/09/13	0.2	74	0	25.8	165	-4.2	Y	
GIW-05	12/10/13	0.3	70.7	0	29	160	-5.3	Y	
GIW-05	12/11/13	0.3	71.5	0	28.2	168	-4.5	Y	
GIW-05	12/12/13	0.3	71.3	0.3	28.1	180	-4.8	Y	
GIW-05	12/13/13	0.3	73	0	26.7	186	0.6	Y	Increased vac to -1.2 inches
GIW-05	12/16/13	0.2	73.7	0	26.1	191	-4	Y	
GIW-05	12/17/13	0.6	73.9	0.2	25.3	179	-4.9	N	Replaced valve - pump operational
GIW-05	12/18/13	0.2	71.2	0	28.6	171	-4.3	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-05	12/19/13	0.3	72.9	0	26.8	179	-4.5	Y	
GIW-05	12/20/13	0.3	71.4	0	28.3	185	-4.1	Y	
GIW-05	12/23/13	0.2	70.3	0.2	29.3	160	-9.5	Y	Decreased vac to -7 inches
GIW-05	12/24/13	0.3	72.9	0	26.8	183	-4.2	Y	
GIW-05	12/25/13	0.1	73.5	0	26.4	160	-9.2	Y	Decreased vac to -4.8 inches
GIW-05	12/26/13	0.2	71.5	0	28.3	186	1	Y	Increased vac to -1.1 inches
GIW-05	12/27/13	0.2	71.1	0	28.7	181	-4.9	Y	
GIW-05	12/30/13	0.2	71.8	0	28	188	-4.3	Y	
GIW-05	12/31/13	0.2	71.4	0.1	28.3	180	-4.9	Y	
GIW-05	01/01/14	0.3	73	0	26.7	182	-1.2	NA	Increased vac to -2.1 inches
GIW-05	01/03/14	0.1	71.6	0	28.3	156	8.9	Y	Increased vac to -1.4 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-06	04/08/13	0.5	75.3	0	24.2	150	-0.7	N	
GIW-06	04/09/13	0.3	76.2	0	23.5	152	-3.1	Y	
GIW-06	04/10/13	0.2	76.1	0.3	23.4	155	-2.3	Y	
GIW-06	04/11/13	0.3	77.2	0.1	22.4	140	-1.5	Y	
GIW-06	04/12/13	0.4	76.2	0.2	23.2	140	-1.1	Y	
GIW-06	04/13/13	0.3	76.1	0.2	23.4	145	1.6	Y	
GIW-06	04/14/13	0.3	77.6	0.2	21.9	150	-0.6	Y	
GIW-06	04/15/13	0.4	76.5	0.3	22.8	140	-2	Y	
GIW-06	04/16/13	0.3	75.9	0.2	23.6	150	-1.4	Y	
GIW-06	04/17/13	0.3	75.5	0.3	23.9	155	-2.1	Y	
GIW-06	04/18/13	0.3	78.2	0.2	21.3	140	-1.8	Y	
GIW-06	04/19/13	0.4	74.1	1	24.5	140	-2.4	Y	
GIW-06	04/20/13	0.5	75.1	0.2	24.2	156	-2.2	Y	
GIW-06	04/21/13	0.6	74.2	0.8	24.4	155	-2	Y	
GIW-06	04/22/13	0.4	83.6	0.2	15.8	158	-2.2	Y	
GIW-06	04/23/13	0.4	75.1	0.4	24.1	155	-4.2	Y	
GIW-06	04/24/13	0.2	74.3	0.3	25.2	150	-4.1	Y	
GIW-06	04/25/13	0.2	74.1	0	25.7	150	-3.4	Y	
GIW-06	04/26/13	0.1	77.2	0.3	22.4	148	-4.7	Y	
GIW-06	04/27/13	0.2	77.1	0.8	21.9	150	-4.5	Y	
GIW-06	04/28/13	0.2	79.8	0.4	19.6	148	-4.3	Y	
GIW-06	04/29/13	0.1	78.3	0	21.6	155	-3.9	Y	
GIW-06	04/30/13	0.1	78.6	0.5	20.8	166	-4.5	Y	
GIW-06	05/01/13	0	81.1	0	18.9	165	-4.5	Y	
GIW-06	05/02/13	0.1	77.2	0.2	22.5	155	-4.4	Y	
GIW-06	05/03/13	0.2	76.2	0	23.6	160	-4.8	Y	
GIW-06	05/04/13	0.1	77	0.2	22.7	158	-4.2	Y	
GIW-06	05/05/13	0.1	78.3	0.3	21.3	152	-4.6	Y	Begin using fluke temp meter
GIW-06	05/06/13	0.2	77.5	0	22.3	160	-4.3	Y	
GIW-06	05/07/13	0.1	76.1	0.4	23.4	159	-5	Y	
GIW-06	05/08/13	0.2	75	0.3	24.5	158	-4.3	Y	
GIW-06	05/09/13	0.3	78.5	0	21.2	160	-6.2	Y	
GIW-06	05/10/13	0.2	79.1	0	20.7	159	-4.1	Y	Replaced piston
GIW-06	05/11/13	0.3	79.2	0	20.5	154	-4.4	Y	
GIW-06	05/12/13	0.9	78.1	0	21	161	-4.8	Y	
GIW-06	05/13/13	0.5	75.7	0	23.8	133	-4.4	Y	Pulled pump and replaced seals
GIW-06	05/14/13	0.3	77.9	0	21.8	162	-4.3	Y	Replaced fiberglass rod
GIW-06	05/15/13	0.4	79.3	0	20.3	162	-4.7	Y	Installed check valve, replaced 1" rod seal
GIW-06	05/16/13	0.1	77.1	0	22.8	166	-4.4	Y	
GIW-06	05/17/13	0.1	78	0	21.9	162	-4.6	Y	
GIW-06	05/18/13	0.2	75.9	0.3	23.6	162	-4.1	Y	
GIW-06	05/19/13	2.4	76.8	0.3	20.5	166	-4.9	Y	Replaced rod and piston
GIW-06	05/20/13	0.3	77.8	0	21.9	162	-4.9	Y	
GIW-06	05/21/13	0.1	76.1	0.3	23.5	160	-4.6	Y	
GIW-06	05/22/13	0.3	76	0.5	23.2	166	-4.8	Y	
GIW-06	05/23/13	0.3	77.2	0.1	22.4	160	-5.2	Y	Shortened down tube and rod 2-ft.
GIW-06	05/24/13	0.2	75	0.1	24.7	164	-4.2	Y	
GIW-06	05/25/13	0.7	77.1	0.1	22.1	161	-4.8	Y	
GIW-06	05/26/13	1	77.4	0.3	21.3	161	-4.9	Y	
GIW-06	05/27/13	0.8	78.3	0.4	20.5	166	-4.8	Y	
GIW-06	05/28/13	0.3	76.9	0.4	22.4	160	-4.7	Y	
GIW-06	05/29/13	0.4	76.1	0.3	23.2	162	-4.5	Y	
GIW-06	05/30/13	0.7	77.2	0.2	21.9	168	-4.7	Y	
GIW-06	05/31/13	1.4	77.6	0	21	162	-4.3	Y	
GIW-06	06/01/13	0.2	77.6	0	22.2	167	-4.5	Y	
GIW-06	06/02/13	0.3	79.4	0	20.3	161	-4.1	Y	
GIW-06	06/03/13	0.2	77.7	0	22.1	168	-4.3	Y	Installed new blackhawk 103
GIW-06	06/04/13	0.1	75.6	0.4	23.9	170	-4.7	Y	
GIW-06	06/05/13	0.2	76.9	0.4	22.5	168	-4.7	Y	
GIW-06	06/06/13	1.3	75.8	0.7	22.2	169	-4.8	Y	
GIW-06	06/07/13	3	71.7	0.5	24.8	173	-4.7	N	Repl. air driver and 4-way valve -operating
GIW-06	06/08/13	1.6	76.6	0.1	21.7	175	-4.9	Y	
GIW-06	06/09/13	0.6	74.7	0.1	24.6	174	-4.3	Y	
GIW-06	06/10/13	1.6	74.6	0.4	23.4	173	-4.2	N	Pump silted, cleaned, pump operating
GIW-06	06/11/13	0.2	76.6	0	23.2	176	-4.7	N	Replaced 4-way valve - pump operating
GIW-06	06/12/13	0.8	74.4	0	24.8	176	-4	Y	
GIW-06	06/13/13	0.2	76.4	0.2	23.2	172	-4.8	Y	
GIW-06	06/14/13	2	73.2	0.3	24.5	173	-4.1	Y	
GIW-06	06/15/13	7.4	72.7	0.5	19.4	170	-4.5	N	Replaced air box
GIW-06	06/16/13	0.1	75.7	0.2	24	168	-4.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-06	06/17/13	1.2	76.7	0	22.1	167	-4.4	N	Air box stalled, repaired, operational
GIW-06	06/18/13	0.6	77	0.1	22.3	168	-4.2	N	Pump stalled, repaired, operational
GIW-06	06/19/13	0.5	77.1	0.5	21.9	170	-4	N	Air box replaced, pump operational
GIW-06	06/20/13	0.3	80.5	0.7	18.5	172	-4.4	Y	
GIW-06	06/21/13	0.5	76.3	0.3	22.9	173	-4.2	Y	
GIW-06	06/22/13	0.9	75.8	0.3	23	170	-4.2	Y	
GIW-06	06/23/13	2.5	73.8	0.1	23.6	164	-4.7	Y	
GIW-06	06/24/13	0	76.1	0	23.9	165	-4.5	Y	
GIW-06	06/25/13	0.1	75.9	0.6	23.4	161	-4.5	N	Foot valve silted, cleaned, operational
GIW-06	06/26/13	0	75.5	0.7	23.8	170	-4.1	Y	
GIW-06	06/27/13	2.1	66.3	1.4	30.2	173	-4.1	Y	Replaced 2-inch wellhead fitting
GIW-06	06/28/13	2.2	75.9	0.4	21.5	160	-4.1	Y	
GIW-06	06/29/13	0.2	72.8	0.3	26.7	163	-4.2	Y	
GIW-06	06/30/13	0	74.8	0.7	24.5	165	-4.8	Y	
GIW-06	07/01/13	0.2	74.1	0.6	25.1	168	-4	Y	
GIW-06	07/02/13	0.2	76.7	0.1	23	165	-4.8	Y	
GIW-06	07/03/13	0.2	75.7	0.3	23.8	167	-4.2	Y	
GIW-06	07/04/13	1.2	71	0.1	27.7	167	-4.3	Y	
GIW-06	07/05/13	0.5	76.3	0.4	22.8	169	-4.1	Y	
GIW-06	07/06/13	0.4	75.7	0.2	23.7	171	-4.5	Y	
GIW-06	07/07/13	1.1	76.4	0	22.5	171	-4.3	Y	
GIW-06	07/08/13	0.1	74.2	0.8	24.9	168	-4	Y	
GIW-06	07/09/13	0.4	78.4	0.6	20.6	169	-4.8	Y	
GIW-06	07/10/13	1.3	76.9	0.8	21	168	-4.6	Y	
GIW-06	07/11/13	3.9	73.4	0.9	21.8	172	-4.6	Y	
GIW-06	07/12/13	0.1	76	0	23.9	172	-4.1	Y	
GIW-06	07/13/13	0.9	78.1	0	21	172	-4.4	Y	
GIW-06	07/14/13	0.3	76.6	0	23.1	175	-4.6	Y	
GIW-06	07/15/13	0.4	75.2	0	24.4	171	-4.4	Y	
GIW-06	07/16/13	0.5	81.8	0	17.7	176	-4.9	Y	
GIW-06	07/17/13	0.1	79.6	0.4	19.9	174	-3.9	Y	
GIW-06	07/18/13	0.3	77.2	0.1	22.4	176	-4.5	Y	
GIW-06	07/19/13	0.2	76.6	0.4	22.8	172	-4.7	Y	
GIW-06	07/20/13	2.1	76.3	0.2	21.4	173	-4.2	Y	
GIW-06	07/21/13	0.2	78.3	0.1	21.4	171	-4.7	Y	
GIW-06	07/22/13	1.1	76.6	0.3	22	176	-5.8	Y	
GIW-06	07/23/13	0.4	77.1	0.2	22.3	174	-4.8	Y	
GIW-06	07/24/13	3.2	74.7	0.4	21.7	177	-4.3	Y	
GIW-06	07/25/13	0.1	78.3	0.4	21.2	178	-3.5	Y	
GIW-06	07/26/13	2.2	74.7	0.9	22.2	173	-4	Y	
GIW-06	07/27/13	0.1	74.6	0.2	25.1	176	-4.5	Y	
GIW-06	07/28/13	3.9	74.8	0.1	21.2	177	-4.4	Y	
GIW-06	07/29/13	0.1	73.9	0.2	25.8	178	-4.2	Y	
GIW-06	07/30/13	3.1	75	0.2	21.7	176	-5	Y	
GIW-06	07/31/13	0.1	74.5	0.5	24.9	176	-3.8	N	Cleaned manifold filter/pump operational
GIW-06	08/01/13	0.1	76.7	0.1	23.1	178	-3.5	Y	
GIW-06	08/02/13	0.1	77	0.1	22.8	175	-5.5	Y	
GIW-06	08/03/13	1.3	75.1	0.4	23.2	171	-4.1	Y	
GIW-06	08/04/13	1.9	77.4	0.1	20.6	178	-4	Y	
GIW-06	08/05/13	1.2	77	0.1	21.7	168	-5	Y	
GIW-06	08/06/13	1.4	76.8	0.2	21.6	175	-3.7	N	Replaced 1" rod seal - pump operational
GIW-06	08/07/13	0	73.8	0	26.2	168	-4.7	Y	
GIW-06	08/08/13	0.2	76.7	0	23.1	171	-4.4	Y	
GIW-06	08/09/13	0.2	75.6	0.5	23.7	175	-4.2	Y	
GIW-06	08/10/13	0.1	76.7	0.3	22.9	171	-4.9	N	Replaced 1" rod seal - pump operational
GIW-06	08/11/13	0.9	79.1	0.6	19.4	172	-4	Y	
GIW-06	08/12/13	4	76.4	0.5	19.1	177	-4	Y	
GIW-06	08/13/13	0.2	75.4	0.6	23.8	175	-4	Y	
GIW-06	08/14/13	0.4	74.1	0.2	25.3	176	-4.7	Y	
GIW-06	08/15/13	0.9	77.6	0	21.5	179	-4.5	Y	
GIW-06	08/16/13	0.6	77.8	0	21.6	180	-4.2	Y	
GIW-06	08/17/13	0.3	72.9	0	26.8	171	-4.3	Y	
GIW-06	08/18/13	0.5	77.8	0	21.7	170	-4.6	Y	
GIW-06	08/19/13	0.4	75.4	0.1	24.1	178	-4.5	Y	
GIW-06	08/20/13	0.4	71.6	0	28	179	-4.6	Y	
GIW-06	08/21/13	1.6	75.4	0	23	172	-5.5	Y	
GIW-06	08/22/13	1	76.6	0	22.4	173	-4	Y	
GIW-06	08/23/13	0.2	73.5	0	26.3	179	-4.3	N	Replaced 4 way valve - pump operational
GIW-06	08/24/13	10.9	76.9	0.7	11.5	173	-3.4	Y	
GIW-06	08/25/13	0.2	80.3	0.1	19.4	177	-4.3	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-06	08/26/13	0.2	75	0	24.8	170	-4.6	Y	
GIW-06	08/27/13	0.1	74.8	0	25.1	174	-4.8	Y	
GIW-06	08/28/13	1.2	77.6	0.3	20.9	178	-3.3	Y	
GIW-06	08/29/13	2.5	80.7	0	16.8	182	-6.3	Y	
GIW-06	08/30/13	0.1	79	0.3	20.6	182	-4.2	Y	
GIW-06	08/31/13	0.2	76.9	0	22.9	172	-4.9	Y	
GIW-06	09/01/13	0.3	75.9	0	27.8	181	-4.6	Y	
GIW-06	09/02/13	0.2	81.2	0	18.6	181	-4.6	Y	
GIW-06	09/03/13	9.4	78.4	0	12.2	185	-5	Y	
GIW-06	09/04/13	0.5	80.2	0	19.3	181	-4.3	Y	
GIW-06	09/05/13	1	85.4	0	13.6	175	-5	Y	
GIW-06	09/06/13	0.1	88.7	0	11.2	179	-4.4	Y	
GIW-06	09/07/13	0.3	85.5	0	14.2	176	-5.2	Y	
GIW-06	09/08/13	0.1	86.4	0	13.5	182	-3.8	Y	
GIW-06	09/09/13	0.3	85.4	0	14.3	183	-3.5	Y	
GIW-06	09/10/13	7.1	90.2	0	2.7	185	-5.1	Y	
GIW-06	09/11/13	0.1	91.3	0	8.6	183	-4.8	Y	
GIW-06	09/12/13	5.8	87.8	0	6.4	179	-4.7	Y	
GIW-06	09/13/13	1.6	89.3	0	9.1	181	-3	Y	
GIW-06	09/14/13	0.1	89.4	0.2	10.3	170	-4.4	Y	
GIW-06	09/15/13	0.3	90	0.2	9.5	169	-4.8	Y	
GIW-06	09/16/13	0.1	83	0	16.9	178	-3.9	Y	
GIW-06	09/17/13	0.1	81.3	0	18.6	176	-3.5	Y	
GIW-06	09/18/13	0	78.4	0	21.6	174	-3.5	Y	
GIW-06	09/19/13	0.2	81.4	0	18.4	171	-3.9	Y	
GIW-06	09/20/13	0.2	91	0	8.8	173	-4.2	Y	
GIW-06	09/21/13	0.1	78.7	0	21.2	180	-3.9	Y	
GIW-06	09/22/13	0.2	89.3	0.2	10.3	184	-3.1	Y	
GIW-06	09/23/13	0.3	89.4	0	10.3	165	-5.6	Y	
GIW-06	09/25/13	0	90.1	0.2	9.7	166	-5.6	Y	
GIW-06	09/26/13	0.9	87.7	0	11.4	173	-4.5	Y	
GIW-06	09/27/13	0	82.1	0	17.9	172	-3	Y	
GIW-06	09/28/13	0.3	81.4	0	18.3	179	-6.1	Y	
GIW-06	09/29/13	0.1	81.8	0	18.1	177	-3.1	Y	
GIW-06	09/30/13	0.1	77.8	0	22.1	170	-1.9	Y	
GIW-06	10/01/13	0.1	81	0	18.9	174	-3.6	Y	
GIW-06	10/02/13	0.2	82.2	0	17.6	174	-2.2	Y	
GIW-06	10/03/13	0.2	81.5	0	18.3	174	-4.1	Y	
GIW-06	10/04/13	0.7	77.5	0	21.8	179	-3.8	Y	
GIW-06	10/05/13	0.2	89.6	0	10.2	170	-4.6	Y	
GIW-06	10/06/13	0.2	85.8	0	14	162	-6.2	Y	
GIW-06	10/07/13	0.3	87.1	0	12.6	174	-4.3	Y	
GIW-06	10/08/13	3.1	88.6	0	8.3	171	-2	Y	
GIW-06	10/09/13	1.5	88	0.2	10.3	160	-4	Y	
GIW-06	10/10/13	0.5	88.7	0	10.8	167	-3	Y	
GIW-06	10/11/13	0.3	88.7	0	11	173	-2.7	Y	
GIW-06	10/12/13	2.2	87.1	0.3	10.4	180	-4.3	Y	
GIW-06	10/13/13	0.2	89	0	10.8	160	-4.1	Y	
GIW-06	10/14/13	0.2	82.2	0	17.6	163	-2.3	Y	
GIW-06	10/15/13	0.2	83.5	0	16.3	176	-5	Y	
GIW-06	10/16/13	0.2	81	0	18.8	150	-4.5	Y	
GIW-06	10/17/13	0.3	81.6	0	18.1	169	-4.6	Y	
GIW-06	10/18/13	0.2	81.4	0	18.4	176	-4.9	Y	
GIW-06	10/19/13	0.4	88.8	0	10.8	144	-5.7	Y	
GIW-06	10/20/13	0.2	82	0	17.8	169	-5.2	Y	
GIW-06	10/21/13	0.2	88.5	0	11.3	155	-6	Y	
GIW-06	10/22/13	0.2	98.7	0	1.1	180	-3	Y	
GIW-06	10/23/13	0.2	97.8	0	2	165	-4.2	Y	
GIW-06	10/24/13	0.3	82.8	0	16.9	144	-4	Y	
GIW-06	10/25/13	0.3	83.3	0	16.4	170	-3.7	Y	
GIW-06	10/28/13	0.2	81.4	0	18.4	180	-4.1	Y	
GIW-06	10/29/13	0.2	82.3	0	17.5	176	-4.5	Y	
GIW-06	10/30/13	0.2	83	0	16.8	170	-1.3	Y	
GIW-06	10/31/13	0.3	84	0	15.7	163	-4.9	Y	
GIW-06	11/01/13	0.3	83.3	0	16.4	173	-4.4	Y	
GIW-06	11/04/13	0.1	80.6	0	19.3	160	-4.8	Y	
GIW-06	11/05/13	0.1	68.8	3.7	27.4	160	-5.7	Y	
GIW-06	11/06/13	0.1	70.1	2.9	26.9	161	-4.3	Y	
GIW-06	11/07/13	0.1	71.4	2.7	25.8	165	-4.8	N	Replaced 4 way valve - pump operational
GIW-06	11/08/13	0.1	72.8	2.7	24.4	168	-2.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-06	11/11/13	0.1	74.9	1.5	23.5	171	-1.8	Y	
GIW-06	11/12/13	0.1	75.9	1.8	22.2	162	-1.9	N	Replaced piston rod - pump operational
GIW-06	11/13/13	0.1	82.5	0	17.4	166	-3.1	Y	
GIW-06	11/14/13	0.1	87.1	0	12.8	176	-1.6	Y	
GIW-06	11/15/13	0.2	82	0	17.8	174	-2.4	Y	
GIW-06	11/18/13	0.1	83.9	0	16	168	-1.9	Y	
GIW-06	11/19/13	0.3	83.1	0	16.6	180	-1.5	Y	
GIW-06	11/20/13	0.1	78.5	0	21.4	177	-3.7	Y	
GIW-06	11/21/13	0.2	83.6	0	16.2	177	-2.3	Y	
GIW-06	11/22/13	0.1	85.3	0	14.6	162	-3.4	Y	
GIW-06	11/25/13	0.2	88.6	0	11.2	156	-7.5	Y	
GIW-06	11/26/13	0.2	79.1	0.3	20.4	175	-4.5	Y	
GIW-06	11/27/13	0.2	83.9	0	15.9	161	-6.7	N	Replaced 4 way valve - pump operational
GIW-06	11/28/13	0.3	80.3	0	19.4	181	-1.9	N	Replaced 4 way valve - pump operational
GIW-06	11/29/13	0.2	84	0	15.8	175	-7	Y	
GIW-06	12/02/13	0.2	80.2	0	19.6	185	-1.6	Y	
GIW-06	12/03/13	0.3	78.3	0	21.4	169	-10.6	N	Piston Stuck - will pull and repair
GIW-06	12/04/13	0.3	79.9	0	19.8	180	-2.4	N	Piston Stuck - will pull and repair
GIW-06	12/05/13	0.3	72.1	1.7	25.9	164	-9.6	N	Piston Stuck - will pull and repair
GIW-06	12/09/13	0.3	77.5	0	22.2	162	-4.6	N	Piston Stuck - will pull and repair
GIW-06	12/10/13	0.2	77.1	0	22.7	173	-4.8	N	Piston Stuck - will pull and repair
GIW-06	12/11/13	0.3	77.5	0	22.2	177	-3.4	N	Pulled pump - pump operational
GIW-06	12/12/13	0.3	74.8	0.6	24.3	164	-17.5	Y	
GIW-06	12/13/13	0.3	78.2	0	21.5	166	-12.5	Y	
GIW-06	12/16/13	0.3	77.6	0	22.1	187	-0.7	Y	
GIW-06	12/17/13	0.7	78.3	0.2	20.8	179	-4.2	Y	
GIW-06	12/18/13	0.3	72.5	0	27.2	180	-4.9	Y	
GIW-06	12/19/13	0.3	73.9	0	25.8	167	-4.6	Y	
GIW-06	12/20/13	0.3	75.3	0	24.4	180	-4.1	Y	
GIW-06	12/23/13	0.3	74.5	0.3	24.9	162	-11.2	Y	Reduced vac to -9.4 inches
GIW-06	12/24/13	0.3	76.3	0	23.4	185	-4	Y	
GIW-06	12/25/13	0.1	81.5	0	18.4	175	-10.5	Y	Reduced vac to -4.4 inches
GIW-06	12/26/13	0.2	73.3	0	26.5	171	-4.5	Y	
GIW-06	12/27/13	0.3	74.2	0	25.5	166	-4.3	Y	
GIW-06	12/30/13	0.3	75.7	0	24	182	4.7	Y	Increased vac to -2.5 inches
GIW-06	12/31/13	0.3	76.6	0	23.1	162	-7.4	Y	Decreased vac to -6.2 inches
GIW-06	01/01/14	0.2	77.3	0	22.5	182	-1.4	NA	Increased vac to -2.9 inches
GIW-06	01/03/14	0.2	78.4	0	21.4	149	-9.3	Y	Decreased vac to -8.5 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-07	04/08/13	13.1	75.1	0	11.8	80	-0.1	N	
GIW-07	04/09/13	12.6	66.1	2.9	18.4	120	-0.6	Y	
GIW-07	04/10/13	12.6	71.6	0.3	15.5	120	-0.3	Y	
GIW-07	04/11/13	17.2	69.4	0.1	13.3	120	-0.3	Y	
GIW-07	04/12/13	17.1	68.5	0.2	14.2	110	-0.3	Y	
GIW-07	04/13/13	17.8	67.6	0.2	14.4	120	-1.4	Y	
GIW-07	04/14/13	10.6	71.8	0.2	17.4	110	1.6	Y	
GIW-07	04/15/13	20.3	66.3	0.3	13.1	120	-0.7	Y	
GIW-07	04/16/13	19.8	67.3	0.1	12.8	110	-0.7	N	Pump not operational - Being repaired
GIW-07	04/17/13	21.8	65.8	0.3	12.1	115	-1.1	N	
GIW-07	04/18/13	10.1	72	0.2	17.7	70	-2	Y	
GIW-07	04/19/13	24.7	63	0.9	11.4	125	-2.4	Y	
GIW-07	04/20/13	12.3	69.5	0.3	17.9	110	-2.1	Y	Replaced 1-inch rod seal
GIW-07	04/21/13	12.9	68.1	0.7	18.3	110	-1.9	Y	
GIW-07	04/22/13	18.3	73.2	0.3	8.2	125	-1.7	Y	
GIW-07	04/23/13	20.5	65.2	0.3	14	125	-3.2	Y	
GIW-07	04/24/13	22.8	61.9	0.3	15	135	-4.8	Y	
GIW-07	04/25/13	20.3	63.3	0	16.4	125	-3.7	Y	
GIW-07	04/26/13	21.7	65.1	0.5	12.7	140	-4.9	Y	
GIW-07	04/27/13	19.7	68	0.6	11.7	135	-5	Y	
GIW-07	04/28/13	10.3	73.9	0.6	15.2	126	-4.3	Y	
GIW-07	04/29/13	13.1	71.7	0	15.2	135	-4.2	Y	
GIW-07	04/30/13	15.5	68.9	0.6	15	130	-4.4	Y	
GIW-07	05/01/13	16	70.1	0	13.9	145	-4.2	Y	
GIW-07	05/02/13	16.3	67.1	0.3	16.3	138	-4.3	Y	
GIW-07	05/03/13	9	71.9	0	19.1	135	-4.6	Y	
GIW-07	05/04/13	9.4	70.8	0.5	19.3	140	-4.5	Y	
GIW-07	05/05/13	8.3	72.1	0.1	19.5	135	-4.2	Y	Begin using fluke temp meter
GIW-07	05/06/13	8.7	72.6	0.1	18.6	140	-4.1	Y	
GIW-07	05/07/13	8.1	70.8	0.4	20.7	133	-4.6	Y	
GIW-07	05/08/13	14.5	65.9	0.4	19.2	144	-4.8	Y	
GIW-07	05/09/13	7.7	73.1	0	19.2	125	-4.4	Y	
GIW-07	05/10/13	7.7	73.6	0.1	18.6	139	-4.6	Y	
GIW-07	05/11/13	8.4	70.8	0	20.8	134	-4.2	Y	
GIW-07	05/12/13	7.9	74.5	0	17.6	129	-4.1	Y	
GIW-07	05/13/13	6.7	73	0	20.3	134	-4.2	Y	
GIW-07	05/14/13	7.8	73.1	0	19.1	148	-4.3	Y	
GIW-07	05/15/13	8.8	73.1	0	18.1	144	-4.9	Y	Installed check valve
GIW-07	05/16/13	7.6	71.3	0	21.1	142	-4	Y	
GIW-07	05/17/13	12	69.5	0	18.5	140	-4.7	Y	
GIW-07	05/18/13	10.8	69.1	0.3	19.8	142	-4.4	Y	
GIW-07	05/19/13	10.4	69.4	0.4	19.8	140	-4.5	Y	
GIW-07	05/20/13	13.2	70.5	0	16.3	140	-4.6	Y	
GIW-07	05/21/13	7.1	71.3	0.5	21.1	146	-4.3	Y	
GIW-07	05/22/13	7.3	70.6	0.3	21.8	140	-4.3	Y	
GIW-07	05/23/13	18	68	0	14	141	-4.3	Y	
GIW-07	05/24/13	6.7	71.8	0	21.5	136	-4.6	Y	
GIW-07	05/25/13	21.1	63.2	0.5	15.2	134	-4.7	Y	
GIW-07	05/26/13	16.4	71.1	0.5	12	139	-4.6	Y	
GIW-07	05/27/13	21.2	69.3	0.3	9.2	147	-4.2	Y	
GIW-07	05/28/13	15.5	68.7	0.3	15.5	144	-4.6	Y	
GIW-07	05/29/13	12.1	69.4	0.3	18.2	142	-4.1	Y	
GIW-07	05/30/13	21.5	69.1	0.5	8.9	142	-4.3	Y	
GIW-07	05/31/13	8.2	71.7	0.1	20	145	-4.8	Y	
GIW-07	06/01/13	3.6	74.3	0	22.1	138	-4.1	Y	
GIW-07	06/02/13	4.1	76.4	0	19.5	128	-4.2	Y	
GIW-07	06/03/13	5.9	74.3	0	19.8	134	-4.3	Y	
GIW-07	06/04/13	13.5	68.6	0.4	17.5	138	-4.7	Y	
GIW-07	06/05/13	13.6	71	0.5	14.9	139	-4.5	Y	
GIW-07	06/06/13	14	69.7	0.5	15.8	138	-4.8	Y	
GIW-07	06/07/13	7.1	69.7	0.5	22.7	140	-4	Y	
GIW-07	06/08/13	19.8	68.7	0.2	11.3	143	-4	Y	
GIW-07	06/09/13	13.9	68.3	0.3	17.5	142	-3.9	Y	
GIW-07	06/10/13	20.3	64.7	0.9	14.1	141	-4.1	Y	Replaced foot valve
GIW-07	06/11/13	9.8	69	0.3	20.9	133	-4.2	N	Remove pump - jetting silt from well
GIW-07	06/12/13	5.4	77.5	0.9	16.2	133	-3.1	N	Jetting complete - pump operating
GIW-07	06/13/13	21.6	66.5	0.2	11.7	138	-4.8	Y	
GIW-07	06/14/13	21.3	65.7	0.2	12.8	139	-4.5	Y	Changed leaking pump seal
GIW-07	06/15/13	14.9	72	1.3	11.8	135	-4.7	Y	
GIW-07	06/16/13	5.6	75.6	0.1	18.7	132	-4	Y	
GIW-07	06/17/13	13	69.7	0.1	17.2	135	-4.8	Y	
GIW-07	06/18/13	11.7	71.9	0.3	16.1	139	-4.1	Y	
GIW-07	06/19/13	10.6	68.5	0.6	20.3	139	-4.2	Y	
GIW-07	06/20/13	21.4	71.8	0.4	6.4	141	-4.2	Y	
GIW-07	06/21/13	23.9	68.1	0.3	7.7	139	-4.7	Y	
GIW-07	06/22/13	11.6	69.4	0.7	18.3	140	-3.9	Y	
GIW-07	06/23/13	14.1	62.8	1.2	21.9	142	-4.5	Y	
GIW-07	06/24/13	8.4	68.2	0.4	23	140	-4.7	Y	
GIW-07	06/25/13	8.9	65.5	1.4	24.2	142	-4.4	N	Replaced 1-inch rod seal, pump operating
GIW-07	06/26/13	21.8	60.5	0.5	17.2	142	-4.1	Y	
GIW-07	06/27/13	13.5	60.9	1.1	24.5	147	-4.1	Y	
GIW-07	06/28/13	11.6	70.2	0.1	18.1	142	-4.1	Y	
GIW-07	06/29/13	7.9	65.4	0.5	26.2	145	-4.2	Y	
GIW-07	06/30/13	9.6	68.4	0.4	21.6	139	-4.2	Y	
GIW-07	07/01/13	10.6	67.2	0.4	21.8	144	-4.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-07	07/02/13	8	62.2	0.6	29.2	140	-4.1	Y	
GIW-07	07/03/13	6	65.2	1.1	27.7	142	-4.8	Y	
GIW-07	07/04/13	7.8	61.4	1	29.8	140	-4	Y	
GIW-07	07/05/13	7.9	68.5	0.6	23	142	-4.8	Y	
GIW-07	07/06/13	7.3	69.3	0.1	23.3	140	-4.7	Y	
GIW-07	07/07/13	10.7	67.1	0.3	21.9	142	-4.3	Y	
GIW-07	07/08/13	5.8	67.1	1	26.1	140	-4.7	Y	
GIW-07	07/09/13	7.5	66.3	1	25.2	141	-4.1	Y	
GIW-07	07/10/13	18.5	67.6	1.5	12.4	138	-4.6	Y	
GIW-07	07/11/13	2.8	70.4	0.7	26.1	144	-4.6	Y	
GIW-07	07/12/13	5.3	67.3	0.2	27.2	140	-4.3	Y	
GIW-07	07/13/13	7.8	70	0	22.2	162	-4.5	Y	Possible Temp reading error
GIW-07	07/14/13	6.3	69.5	0	24.2	145	-4.3	Y	
GIW-07	07/15/13	6.3	64.3	0	29.4	139	-4.4	Y	
GIW-07	07/16/13	2.9	76.3	0	20.8	167	-4.8	Y	Possible Temp reading error
GIW-07	07/17/13	2.7	71.3	0.1	25.9	159	-4.9	Y	
GIW-07	07/18/13	2.5	70.5	0	27	160	-4.4	Y	
GIW-07	07/19/13	2.7	70.6	0.4	26.3	159	-4.3	Y	
GIW-07	07/20/13	5.7	70.7	0	23.6	152	-4.4	Y	
GIW-07	07/21/13	1.6	73.5	0	24.9	146	-4.5	Y	Changed leaking air box
GIW-07	07/22/13	2	72.5	0.2	25.3	157	-5.8	Y	
GIW-07	07/23/13	1.8	72.8	0.1	25.3	154	-4	Y	Replaced 1-inch rod seal
GIW-07	07/24/13	10.5	75.2	0.7	13.6	150	-4.6	Y	
GIW-07	07/25/13	1.5	72.3	0.4	25.8	156	-7	Y	
GIW-07	07/26/13	1.5	69.3	0.8	28.4	145	-4	Y	
GIW-07	07/27/13	1.4	69.3	0	29.3	146	-4.2	Y	
GIW-07	07/28/13	4.5	68.6	0.4	26.5	146	-4.4	Y	
GIW-07	07/29/13	1.4	69.3	0	29.3	160	-4	Y	
GIW-07	07/30/13	1.4	68.5	0.5	29.6	147	-4.7	Y	
GIW-07	07/31/13	1.7	69	0.4	28.9	151	-3.7	Y	
GIW-07	08/01/13	1.7	70.8	0	27.5	159	-4	Y	
GIW-07	08/02/13	1.6	71.7	0.1	26.6	145	-5.4	Y	
GIW-07	08/03/13	4.4	70.2	0.4	25	145	-4.5	Y	
GIW-07	08/04/13	3.2	72	0.3	24.5	148	-4.5	Y	
GIW-07	08/05/13	5.2	72.5	0.3	22	145	-5.6	Y	
GIW-07	08/06/13	3.5	70.8	0.4	25.3	141	-4.2	N	Replaced 1" rod seal - pump operational
GIW-07	08/07/13	4.6	72	0	23.4	143	-4.5	Y	
GIW-07	08/08/13	3.7	70.8	0.4	25.1	142	-3.9	Y	
GIW-07	08/09/13	5.1	70.2	0.6	24.1	143	-4.7	Y	
GIW-07	08/10/13	6.6	69.5	0.5	23.4	142	-4.8	Y	
GIW-07	08/11/13	8	72.6	0.6	18.8	139	-4.4	N	Replaced 1" rod seal - pump operational
GIW-07	08/12/13	5.1	70.5	0.5	23.9	157	-4	Y	
GIW-07	08/13/13	6.2	70.1	0.7	23	151	-4	Y	
GIW-07	08/14/13	8.5	66.9	0.3	24.3	156	-4.1	Y	
GIW-07	08/15/13	10.5	70.5	0	19	153	-3.5	Y	
GIW-07	08/16/13	7.8	71.4	0	20.8	153	-3.4	Y	
GIW-07	08/17/13	5.3	68.9	0	25.8	148	-5.9	Y	
GIW-07	08/18/13	10.6	72	0	17.4	146	-4.8	N	Replaced bottom seal - pump operational
GIW-07	08/19/13	8.6	71.5	0.1	19.8	158	-3.8	Y	
GIW-07	08/20/13	9.6	72.5	0	17.9	150	-4.7	Y	
GIW-07	08/21/13	13	73	0	14	148	-4.6	Y	
GIW-07	08/22/13	12.8	71.7	0	15.5	144	-4.6	Y	
GIW-07	08/23/13	8.5	72.2	0	19.3	157	-4.3	Y	
GIW-07	08/24/13	23	71	0.4	5.6	144	-3.7	N	Replaced 1"rod seal - pump operational
GIW-07	08/25/13	9.3	73.4	0.2	17.1	148	-4.7	Y	
GIW-07	08/26/13	8.4	75.1	0	16.5	155	-5	Y	
GIW-07	08/27/13	8.1	75.3	0	16.6	155	-4.9	Y	
GIW-07	08/28/13	11.2	73	0	15.8	160	-2.7	Y	
GIW-07	08/29/13	14.1	74	0	11.9	146	-4.5	Y	
GIW-07	08/30/13	7.2	71.2	0	21.6	148	-3.6	Y	
GIW-07	08/31/13	5	73.4	0	21.6	152	-4.8	Y	
GIW-07	09/01/13	3.8	75.7	0.3	21.2	154	-4.2	Y	
GIW-07	09/02/13	5.9	77	0	17.1	137	-5	Y	
GIW-07	09/03/13	24.5	70.7	0	4.8	143	-4.2	Y	
GIW-07	09/04/13	9.5	75.1	0	15.4	152	-2.7	Y	
GIW-07	09/05/13	15.1	77.3	0	7.6	144	-5.3	Y	
GIW-07	09/06/13	7.8	81.9	0	10.3	147	-3.7	Y	
GIW-07	09/07/13	8.6	77.9	0	13.5	136	-5.7	Y	
GIW-07	09/08/13	7.4	79.8	0	12.8	141	-2.5	Y	
GIW-07	09/09/13	8	78.3	0	13.7	153	-1.6	Y	
GIW-07	09/10/13	17.6	82	0.3	0.1	147	-4.4	Y	
GIW-07	09/11/13	7.3	83.7	0	9	153	-3.3	Y	
GIW-07	09/12/13	7.3	82	0	10.7	153	-1.6	Y	
GIW-07	09/13/13	10	88.6	0	1.4	138	0.4	Y	well head valve failed and replaced.
GIW-07	09/14/13	4.8	82.6	0.3	12.3	137	-2.5	Y	
GIW-07	09/15/13	5.6	82.3	0.5	11.6	138	-4.7	Y	
GIW-07	09/16/13	8.8	62.8	3.5	24.9	143	-1.7	Y	
GIW-07	09/17/13	5.1	75.8	0	19.1	138	-0.1	Y	
GIW-07	09/18/13	5.2	76.4	0	18.4	143	-0.4	Y	
GIW-07	09/19/13	5	76.1	0	18.9	144	-0.1	Y	
GIW-07	09/20/13	8.2	81.8	0.7	9.3	148	-1.6	Y	
GIW-07	09/21/13	3	71.3	1.8	23.9	146	-1.3	Y	
GIW-07	09/22/13	4.3	83.2	0.4	12.1	160	-0.3	Y	
GIW-07	09/23/13	3.7	65.8	4.6	25.9	147	-3	Y	Adjusted vac reduced O2 to 1.9%
GIW-07	09/25/13	3.5	86.4	0	10.1	152	-2.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-07	09/26/13	6.4	83.8	0	9.8	150	-2.1	N	Replaced pump set up-pump operational
GIW-07	09/27/13	8.5	81.8	0	9.7	166	-0.6	Y	
GIW-07	09/28/13	5.8	79.3	0	14.9	166	-4.4	Y	
GIW-07	09/29/13	5.6	77.7	0	16.7	168	-4.1	Y	
GIW-07	09/30/13	5.4	80	0	14.6	172	-2.1	N	Replaced 1" rod seal - pump operational
GIW-07	10/01/13	4.9	80.3	0	14.8	158	-3.9	Y	
GIW-07	10/02/13	5.1	76.4	0	18.5	173	-2.5	Y	
GIW-07	10/03/13	4	82.5	0	13.5	171	-4.2	Y	
GIW-07	10/04/13	3.8	72.4	0	23.8	174	-3.4	Y	
GIW-07	10/05/13	0.3	88.7	0	11	170	-5.7	Y	
GIW-07	10/06/13	3.7	85.1	0	11.2	171	-5.9	Y	
GIW-07	10/07/13	3.5	73.4	0.1	23	156	-5.8	Y	
GIW-07	10/08/13	5.9	77.3	0	16.8	148	-4.7	Y	
GIW-07	10/09/13	3.7	81.7	0.4	14.2	165	-6.2	Y	
GIW-07	10/10/13	5	87.5	0	7.5	157	-4.5	Y	
GIW-07	10/11/13	3.2	86.1	0.1	10.6	147	-4.2	Y	
GIW-07	10/12/13	6	86.3	0.3	7.4	149	-4.7	Y	
GIW-07	10/13/13	3.3	86.7	0	10	152	-4.2	Y	
GIW-07	10/14/13	3.7	81.8	0	14.5	147	-3.5	Y	
GIW-07	10/15/13	3.4	84	0	12.6	130	-6.1	Y	
GIW-07	10/16/13	3.2	82.6	0	14.2	142	-2.4	Y	
GIW-07	10/17/13	3.6	83.1	0	13.3	155	-4.1	Y	
GIW-07	10/18/13	3.7	82.8	0	13.5	153	-4	Y	
GIW-07	10/19/13	4	89.1	0	6.9	135	-5.1	Y	
GIW-07	10/20/13	3.8	82.5	0	13.7	148	-5.5	Y	
GIW-07	10/21/13	3.9	87.9	0	8.2	148	-6.4	Y	
GIW-07	10/22/13	2.2	97.6	0	0.2	140	-5.1	Y	
GIW-07	10/23/13	3.9	96	0	0.1	138	-5	Y	
GIW-07	10/24/13	4.4	82.6	0	13	142	-5	Y	
GIW-07	10/25/13	4.1	78.3	0	17.6	130	-7.1	N	Replaced air box - pump operational
GIW-07	10/28/13	3	81.8	0	15.2	160	0.2	Y	Adjusted vac - increased to -3.6 inches
GIW-07	10/29/13	3.2	83.2	0	13.6	132	-4.8	Y	
GIW-07	10/30/13	3.4	83.2	0	13.4	165	1.6	Y	
GIW-07	10/31/13	3.2	84.2	0	12.6	150	-6.7	Y	
GIW-07	11/01/13	3	84.5	0	12.5	145	-4.6	Y	
GIW-07	11/04/13	2.8	81.8	0	15.4	147	-5.7	Y	
GIW-07	11/05/13	5.1	82	0	12.9	139	-4.6	Y	
GIW-07	11/06/13	3.1	83	0	13.9	139	-4.4	Y	
GIW-07	11/07/13	3.5	81.4	0	15.1	148	-0.7	N	Replaced 4 way valve - pump operational
GIW-07	11/08/13	3.5	83.5	0	13	150	-3.5	Y	
GIW-07	11/11/13	3.4	81.7	0	14.9	161	-1.3	Y	
GIW-07	11/12/13	3	83.2	0	13.8	145	-6.1	Y	
GIW-07	11/13/13	2.4	80.4	0	17.2	150	-6.3	Y	
GIW-07	11/14/13	2.3	87.7	0	10	152	-4	Y	
GIW-07	11/15/13	2.6	81.1	0	16.3	160	-3.5	Y	
GIW-07	11/18/13	2.5	83	0	14.5	144	-6.9	Y	
GIW-07	11/19/13	2.8	82.7	0	14.5	152	-3.6	N	Replaced 4 way valve - pump operational
GIW-07	11/20/13	2.5	79	0	18.5	154	-4.8	Y	
GIW-07	11/21/13	2.9	84.9	0	12.2	170	-4.6	N	Replaced 4 way valve - pump operational
GIW-07	11/22/13	2.9	86.6	0	10.5	157	-5.7	Y	
GIW-07	11/25/13	2.5	87.1	0	10.4	148	-10.1	Y	Adjusted vac to -4.8 inches
GIW-07	11/26/13	3	80.4	0	16.6	163	13	N	Adjusted vac to -4.1 inches, Replaced 4 way valve - pump operational
GIW-07	11/27/13	2.5	81.9	0	15.6	150	-10.1	N	Adjusted vac to -4.5 inches, Replaced 4 way valve - pump operational
GIW-07	11/28/13	3.2	81.1	0	15.7	158	-4.8	Y	
GIW-07	11/29/13	3.4	86	0	10.6	157	-4.7	Y	
GIW-07	12/02/13	3.1	79.9	0	17	170	-0.7	Y	
GIW-07	12/03/13	3.8	78.5	0	17.7	157	-4.1	N	Piston Stuck - will pull and repair
GIW-07	12/04/13	3.8	79.3	0	16.9	167	-2.9	N	Piston Stuck - will pull and repair
GIW-07	12/05/13	3	72.9	1.6	22.5	149	-9.1	N	Piston Stuck - will pull and repair
GIW-07	12/09/13	2.2	78.1	0	19.7	165	-4.2	N	2 inch air line frozen
GIW-07	12/10/13	1.9	75.6	0	22.5	140	-9.6	N	Replaced pump - pump operational
GIW-07	12/11/13	9	76.3	0	14.7	140	-0.7	N	Installed new pump - pump operational
GIW-07	12/12/13	2.2	74	0.5	23.3	129	-16	Y	
GIW-07	12/13/13	2.4	76.8	0	20.8	126	-8.1	Y	
GIW-07	12/16/13	2.4	76.5	0	21.1	157	-10.6	Y	
GIW-07	12/17/13	2.9	80.3	0	16.8	152	-4	Y	
GIW-07	12/18/13	2.1	75.1	0	22.8	138	-4.9	Y	
GIW-07	12/19/13	2.1	75	0	22.9	120	-4.9	Y	
GIW-07	12/20/13	2.1	75.4	0	22.5	134	-4.3	Y	
GIW-07	12/23/13	2	75.4	0	22.6	120	-4.8	Y	
GIW-07	12/24/13	2	77.4	0	20.6	130	-4.3	Y	
GIW-07	12/25/13	1.7	82.8	0	15.5	118	-7.4	Y	Reduced vac to -5.5 inches
GIW-07	12/26/13	1.8	77.1	0	21.1	134	-2	Y	Increased vac to -3.1 inches
GIW-07	12/27/13	1.9	76.4	0	21.7	134	-4.9	Y	
GIW-07	12/30/13	2	78.4	0	19.6	141	4.4	Y	Increased vac to -0.7 inches
GIW-07	12/31/13	1.9	78.6	0	19.5	158	-0.7	N	Increased vac to -1.9 inches (valve replaced - pump operational)
GIW-07	01/01/14	1.9	79.1	0	19	155	-0.8	NA	Increased vac to -2.5 inches
GIW-07	01/03/14	2	80.2	0	17.8	120	-0.8	Y	Increased vac to -2.6 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-08	04/08/13	37.4	62.4	0	0.2	78	-0.2	N	
GIW-08	04/09/13	37.4	57.1	0.3	5.2	80	0.1	Y	
GIW-08	04/10/13	42.2	54	0.2	3.6	80	-0.2	Y	
GIW-08	04/11/13	34.7	62.8	0.2	2.3	52	-0.4	Y	
GIW-08	04/12/13	32.9	64.2	0.2	2.7	42	-0.6	N	Pump not operational prior to monitoring
GIW-08	04/13/13	38.5	57.9	0.2	3.4	62	-0.9	N	
GIW-08	04/14/13	28.1	68	0.2	3.7	80	0.6	N	
GIW-08	04/15/13	37.7	58.5	0.3	3.5	74	-0.4	Y	Pump Repaired
GIW-08	04/16/13	27.8	67	0.3	4.9	50	-0.4	Y	
GIW-08	04/17/13	33.6	52.2	0.3	13.9	80	-2.2	Y	
GIW-08	04/18/13	24.1	72.6	0.2	3.1	66	-1	Y	
GIW-08	04/19/13	26.7	54.3	0.9	18.1	80	-2.6	Y	Pump working, but well silted, no flow
GIW-08	04/20/13	27.1	55.1	0.3	17.5	80	-2.6	Y	Pump working, but well silted, no flow
GIW-08	04/21/13	26.1	49.2	0.8	23.9	80	-2.7	Y	
GIW-08	04/22/13	27.2	57.6	0.3	14.9	86	-2.1	Y	Well to be jetted and pumped 4-25
GIW-08	04/23/13	25.9	49.5	0.2	24.4	80	-3	Y	
GIW-08	04/24/13	17.3	41.1	0.2	41.4	90	-4.7	N	Pump being repaired.
GIW-08	04/25/13	21.1	49.1	0.1	29.7	80	-4.1	N	
GIW-08	04/26/13	19.9	51.2	0.4	28.5	92	-4.2	Y	Pump repaired. Rod Seal
GIW-08	04/27/13	21.6	50.3	0.6	27.5	95	-4.7	Y	Operating but not moving liquid, will repair
GIW-08	04/28/13	21.6	70.9	0.2	7.3	82	-4.2	Y	Operating but not moving liquid, will repair
GIW-08	04/29/13	24.6	51	0.3	24.1	98	-3.9	Y	
GIW-08	04/30/13	22.7	51.8	0.5	25	105	-4	N	Operating but not moving liquid, will repair
GIW-08	05/01/13	23.7	55.3	0.2	20.8	101	-4.8	N	Operating but not moving liquid, will repair
GIW-08	05/02/13	24.7	51.5	0.1	23.7	102	-4.8	N	Operating but not moving liquid, will repair
GIW-08	05/03/13	24.3	54.9	0.1	20.7	95	-4.9	N	Operating but not moving liquid, will repair
GIW-08	05/04/13	25.3	49.9	0.4	24.4	94	-4.8	N	Operating but not moving liquid, will repair
GIW-08	05/05/13	23.4	57	0	19.6	90	-4	N	Begin using fluke temp meter
GIW-08	05/06/13	24.5	53	0	22.5	91	-4.3	Y	Pump repaired, moving liquid
GIW-08	05/07/13	20.1	58.4	1.3	20.2	101	-4.2	Y	
GIW-08	05/08/13	18.9	50.8	0.8	29.5	113	-4.6	Y	
GIW-08	05/09/13	18.6	62	0.4	19	109	-2.7	Y	
GIW-08	05/10/13	20.1	54.1	0.4	25.4	104	-4	Y	
GIW-08	05/11/13	21.1	55.5	0.4	23	108	-4.2	Y	
GIW-08	05/12/13	20.3	55.9	0.2	23.6	109	-4	Y	
GIW-08	05/13/13	20.2	58	0.1	21.7	115	-4.2	Y	
GIW-08	05/14/13	23.2	56.2	0	20.6	115	-4.2	Y	
GIW-08	05/15/13	22.6	53.6	0.1	23.7	110	-4.9	Y	Installed check valve
GIW-08	05/16/13	22.5	54.8	0.2	22.5	116	-4	Y	
GIW-08	05/17/13	24.1	57.3	0.3	18.3	111	-4.1	Y	
GIW-08	05/18/13	24.5	56.4	0.3	18.8	117	-4.2	Y	
GIW-08	05/19/13	25.5	57.8	0.5	16.2	116	-4.1	Y	
GIW-08	05/20/13	25.4	57.9	0.1	16.6	114	-4.5	Y	
GIW-08	05/21/13	23.2	53.9	0.6	22.3	112	-4.8	Y	
GIW-08	05/22/13	24.1	57.7	0.5	17.7	115	-4.1	Y	
GIW-08	05/23/13	22.3	55.4	0.3	22	105	-4.9	Y	
GIW-08	05/24/13	27	55.7	0.2	17.1	111	-4	Y	
GIW-08	05/25/13	26.8	55.9	0.7	16.6	114	-4.4	Y	
GIW-08	05/26/13	27.5	61.5	0.3	10.7	113	-4	Y	
GIW-08	05/27/13	27.8	64.8	0.5	6.9	116	-4	Y	
GIW-08	05/28/13	27.6	65.5	0.3	6.6	115	-4.8	Y	
GIW-08	05/29/13	28.9	64.9	0.3	5.9	118	-4.3	Y	
GIW-08	05/30/13	27.2	66.9	0.3	5.6	117	-4	N	Replaced 1-inch rod seal - operational
GIW-08	05/31/13	24.3	60.6	0	15.1	108	-4.8	Y	
GIW-08	06/01/13	27.3	58.8	0	13.9	0	-4.2	Y	6-1 Temp error - data removed
GIW-08	06/02/13	25.2	61.1	0	13.7	108	-4.1	N	Replaced 4-way valve - pump operational
GIW-08	06/03/13	24.1	56.4	0	19.5	109	-4.1	Y	
GIW-08	06/04/13	24.2	56.4	0.5	18.9	116	-4	Y	
GIW-08	06/05/13	30.3	60.8	0.5	8.4	114	-4.1	Y	
GIW-08	06/06/13	25.8	55.5	0.6	18.1	116	-4	Y	
GIW-08	06/07/13	33.7	52.8	0.6	12.9	113	-4.2	Y	
GIW-08	06/08/13	31.3	62.4	0.1	6.2	115	-4	Y	
GIW-08	06/09/13	27.7	57.4	0	14.9	116	-4.2	Y	
GIW-08	06/10/13	34.7	64.7	0.4	0.2	114	-4.1	Y	
GIW-08	06/11/13	28.6	64.6	0.3	6.5	116	-4.2	Y	
GIW-08	06/12/13	27.8	65	0.1	7.1	117	-4	Y	
GIW-08	06/13/13	27.5	64.3	0.3	7.9	114	-4.7	Y	
GIW-08	06/14/13	27.2	63.1	0.2	9.5	117	-4.1	Y	
GIW-08	06/15/13	33.2	55	0.8	11	117	-4.2	Y	
GIW-08	06/16/13	28	65.4	0	6.6	115	-2.8	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-08	06/17/13	26.7	59.3	0.2	13.8	112	-4.8	Y	
GIW-08	06/18/13	25.7	60.7	0.5	13.1	116	-4	Y	
GIW-08	06/19/13	28.4	64.8	0.8	6	118	-4.2	Y	
GIW-08	06/20/13	28.1	69.5	0.5	1.9	118	-4.1	Y	
GIW-08	06/21/13	26.4	62.9	0	10.7	115	-4.3	Y	
GIW-08	06/22/13	33.6	60	0.7	5.7	116	-4.2	Y	
GIW-08	06/23/13	23.3	62.7	0.9	13.1	117	-4.5	Y	
GIW-08	06/24/13	22.4	58.5	0.7	18.4	117	-4.8	Y	
GIW-08	06/25/13	23.5	64.6	0.4	11.5	118	-4.4	N	Replaced 1-inch rod seal, pump operating
GIW-08	06/26/13	24.1	61.9	0.4	13.6	118	-4	Y	
GIW-08	06/27/13	30.4	54.3	1.3	14	118	-4.7	Y	
GIW-08	06/28/13	26.1	64	0.6	9.3	116	-4	Y	
GIW-08	06/29/13	22.5	58.8	0.3	18.4	118	-4.6	Y	
GIW-08	06/30/13	22.5	64.1	0.5	12.9	115	-4	Y	
GIW-08	07/01/13	24.5	64.7	0.6	10.2	118	-4.4	Y	
GIW-08	07/02/13	24.8	65.7	0.7	8.8	118	-4.2	Y	
GIW-08	07/03/13	27.7	63.8	0	8.5	118	-4.8	N	Installed down tube due to silt, operational
GIW-08	07/04/13	26.7	56.4	0.4	16.5	116	-4	Y	
GIW-08	07/05/13	28	62.7	0.5	8.8	117	-4.5	Y	
GIW-08	07/06/13	25.6	65.1	0.3	9	118	-4.1	Y	
GIW-08	07/07/13	30.2	61.5	0.3	8	119	-4.6	Y	
GIW-08	07/08/13	23.2	58.7	0.8	17.3	117	-4.7	Y	
GIW-08	07/09/13	28.2	70.8	0.7	0.3	116	-4.5	Y	
GIW-08	07/10/13	23.8	61.7	1.4	13.1	114	-4	Y	
GIW-08	07/11/13	20.2	57.7	1.3	20.8	115	-4.1	Y	
GIW-08	07/12/13	23.5	60.9	0	15.6	115	-4.1	Y	
GIW-08	07/13/13	31.4	65.3	0	3.3	118	-4.1	Y	
GIW-08	07/14/13	24.7	65.4	0	9.9	116	-4.1	Y	
GIW-08	07/15/13	25.4	64.6	0	10	118	-4.3	Y	
GIW-08	07/16/13	27.1	69.2	0	3.7	131	-4.1	Y	
GIW-08	07/17/13	23.7	67.6	0	8.7	128	-4.7	Y	
GIW-08	07/18/13	24.6	64.5	0	10.9	128	-4.8	Y	
GIW-08	07/19/13	25.6	64	0.4	10	126	-4.5	Y	
GIW-08	07/20/13	21.1	65.8	0	13.1	128	-4	Y	
GIW-08	07/21/13	23.2	67.4	0	9.4	131	-4.6	Y	
GIW-08	07/22/13	27.6	64.8	0.5	7.1	127	-4.6	Y	
GIW-08	07/23/13	25.3	66	0.1	8.6	129	-4.2	Y	
GIW-08	07/24/13	26.7	63.1	0.5	9.7	128	-4.5	Y	
GIW-08	07/25/13	23.9	65.4	0.5	10.2	130	-4.1	Y	
GIW-08	07/26/13	23.5	63.5	0.8	12.2	128	-3.6	Y	
GIW-08	07/27/13	23.8	62.9	0	13.3	129	-4.3	Y	
GIW-08	07/28/13	24.2	62.5	0.2	13.1	131	-4.8	Y	
GIW-08	07/29/13	23.5	62.5	0	14	132	-4.1	Y	
GIW-08	07/30/13	22.4	62	0.5	15.1	132	-4	Y	
GIW-08	07/31/13	23.7	62.8	0.6	12.9	138	-3.7	Y	
GIW-08	08/01/13	23.9	64.2	0.1	11.8	130	-3.8	Y	
GIW-08	08/02/13	23.9	63.7	0.2	12.2	128	-4.3	Y	
GIW-08	08/03/13	23.8	61.6	0.6	14	128	-4.1	Y	
GIW-08	08/04/13	23.7	62.4	0.2	13.7	131	-4	Y	
GIW-08	08/05/13	23.7	63.5	0.4	12.4	130	-4.2	Y	
GIW-08	08/06/13	25.3	63.2	0.4	11.1	129	-4.4	Y	
GIW-08	08/07/13	25.6	64.9	0	9.5	126	-4.8	Y	
GIW-08	08/08/13	26.5	63.5	0	10	128	-4.7	Y	
GIW-08	08/09/13	27.4	61.5	0.7	10.4	128	-4.7	Y	
GIW-08	08/10/13	26.3	61.1	0.5	12.1	131	-4.7	Y	
GIW-08	08/11/13	26.2	63.6	0.4	9.8	132	-4.6	Y	
GIW-08	08/12/13	27.3	62.6	0.3	9.8	128	-4.8	Y	
GIW-08	08/13/13	27.4	61.9	0.5	10.2	126	-4.1	Y	
GIW-08	08/14/13	28.9	60.3	0.3	10.5	127	-4.6	Y	
GIW-08	08/15/13	26.2	63	0	10.8	130	-4.5	Y	
GIW-08	08/16/13	25.2	74.6	0	0.2	130	-4.2	Y	
GIW-08	08/17/13	26.5	63.6	0	9.9	129	-4.7	Y	
GIW-08	08/18/13	26.7	62.4	0.2	10.7	130	-4.8	Y	
GIW-08	08/19/13	28.1	63.2	0.1	8.6	131	-4.4	Y	
GIW-08	08/20/13	27.2	60.8	0	12	132	-4.5	Y	
GIW-08	08/21/13	26.8	62	0	11.2	131	-4.7	Y	
GIW-08	08/22/13	26.4	61.2	0	12.4	130	-4.4	N	Replaced 4 way valve - pump operational
GIW-08	08/23/13	26.2	64.8	0	9	132	-4.3	N	Replaced 4 way valve - pump operational
GIW-08	08/24/13	36.2	63.3	0.4	0.1	133	-3.7	N	Replaced 4 way valve - pump operational
GIW-08	08/25/13	27.9	65.2	0.2	6.7	138	-4.5	N	Replace 1" rod seal - pump operational

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-08	08/26/13	25.6	66.3	0	8.1	131	-4.5	Y	
GIW-08	08/27/13	25.6	69.4	0	5	132	-4.8	Y	
GIW-08	08/28/13	28.8	63.8	0.2	7.2	131	-2.9	Y	
GIW-08	08/29/13	27.1	63.1	0	9.8	133	-5.6	Y	
GIW-08	08/30/13	25.4	64.2	0.3	10.1	131	-4	Y	
GIW-08	08/31/13	26	59.6	0.8	13.6	132	-4.9	Y	
GIW-08	09/01/13	25.3	58.1	0.5	17.1	134	-4.3	Y	
GIW-08	09/02/13	26.6	64.6	0.3	8.5	132	-3.8	Y	
GIW-08	09/03/13	25.9	63.2	0	10.9	132	-4.5	Y	
GIW-08	09/04/13	26.5	62	0	11.5	132	-4	Y	
GIW-08	09/05/13	26.5	66.3	0	7.2	130	-4.8	Y	
GIW-08	09/06/13	27.3	71.4	0	1.3	130	-4	Y	
GIW-08	09/07/13	28.5	67.4	0	4.1	125	-5.2	Y	
GIW-08	09/08/13	26.6	69.9	0	3.5	125	-3	Y	
GIW-08	09/09/13	28.5	69.5	0	2	130	-3.5	Y	
GIW-08	09/10/13	27	69.8	0.4	2.8	128	-5	Y	
GIW-08	09/11/13	27.7	70.8	0	1.5	128	-4.7	Y	
GIW-08	09/12/13	28.2	68.3	0	3.5	125	-4.4	Y	
GIW-08	09/13/13	29	70.4	0.1	0.5	132	-2.9	Y	
GIW-08	09/14/13	27.3	69.8	0.3	2.6	118	-4.3	Y	
GIW-08	09/15/13	26.7	68	0.6	4.7	116	-4	Y	
GIW-08	09/16/13	26.3	66.5	0	7.2	123	-3.8	Y	
GIW-08	09/17/13	26.4	65.7	0	7.9	127	-3.8	Y	
GIW-08	09/18/13	25.7	69.8	0	4.5	125	-3.5	Y	
GIW-08	09/19/13	26.9	67	0	6.1	129	-3.8	Y	
GIW-08	09/20/13	28.5	71	0	0.5	122	-3.8	Y	
GIW-08	09/21/13	25.1	71	0	3.9	123	-4.1	Y	
GIW-08	09/22/13	26.4	70.5	0	3.1	131	-3.6	Y	
GIW-08	09/23/13	29.7	69.8	0	0.5	125	-5.2	Y	
GIW-08	09/25/13	26.6	70.6	0	2.8	129	-5.6	Y	
GIW-08	09/26/13	30.5	69.4	0	0.1	126	-3.8	N	Replaced pump set up-pump operational
GIW-08	09/27/13	22.5	68.4	0	9.1	136	-2.9	Y	
GIW-08	09/28/13	24.2	67.6	0	8.2	139	-5.5	Y	
GIW-08	09/29/13	22.2	69.6	0	8.2	131	-4.9	Y	
GIW-08	09/30/13	21.3	68.2	0	10.5	136	-3.9	Y	
GIW-08	10/01/13	21.5	68.9	0	9.6	133	-4.3	Y	
GIW-08	10/02/13	21.1	69.3	0	9.6	143	-3	Y	
GIW-08	10/03/13	21	71.2	0	7.8	141	-4.5	Y	
GIW-08	10/04/13	20.1	66.8	0	13.1	142	-4.1	Y	
GIW-08	10/05/13	21.2	77.3	0	1.5	140	-4.7	Y	
GIW-08	10/06/13	16.3	83.6	0	0.1	136	-5.5	Y	
GIW-08	10/07/13	20.9	70.7	0	8.4	139	-4.2	Y	
GIW-08	10/08/13	23.8	70.6	0	5.6	138	-2.7	N	Replaced 1" rod seal-pump operational
GIW-08	10/09/13	22.6	70.1	0	7.3	145	-4.9	Y	
GIW-08	10/10/13	24	70.9	0	5.1	140	-4.3	Y	
GIW-08	10/11/13	23.6	70.3	0	6.1	134	-4.1	Y	
GIW-08	10/12/13	31.1	68.3	0.5	0.1	130	-5.7	N	Replaced 1" rod seal-pump operational
GIW-08	10/13/13	24.3	70.3	0	5.4	125	-4.2	Y	
GIW-08	10/14/13	23.6	71.3	0	5.1	119	-3.2	Y	
GIW-08	10/15/13	24.7	69	0	6.3	131	-5.3	Y	
GIW-08	10/16/13	19	79.9	0	1.1	120	-4.7	Y	
GIW-08	10/17/13	24.3	71.2	0	4.5	123	-4.7	N	Replaced 4 way valve - pump operational
GIW-08	10/18/13	23.9	72.7	0	3.4	129	-4.9	Y	
GIW-08	10/19/13	26.1	70.5	0	3.4	120	-5.4	Y	
GIW-08	10/20/13	22.1	67.7	0	10.2	134	-3.8	Y	
GIW-08	10/21/13	23.4	70.3	0	6.3	131	-4.9	Y	
GIW-08	10/22/13	23.3	76.6	0	0.1	125	-3.8	Y	
GIW-08	10/23/13	23.7	75.3	0	1	138	-4.4	Y	
GIW-08	10/24/13	24	66.2	0	9.8	127	-4.5	Y	
GIW-08	10/25/13	24.5	65.6	0	9.9	125	-5	N	New discharge hose - pump operational
GIW-08	10/28/13	24.5	65.7	0	9.8	129	-5.1	N	Replace air box - pump operational
GIW-08	10/29/13	24.4	66.7	0	8.9	123	-5.5	Y	
GIW-08	10/30/13	25	67.1	0	7.9	125	-3.1	N	Pump replaced - pump operational
GIW-08	10/31/13	21.9	69	0	9.1	135	-3.8	Y	
GIW-08	11/01/13	20.4	71.5	0	8.1	129	-4.6	Y	
GIW-08	11/04/13	21.8	66.3	0	11.9	135	-4.8	Y	
GIW-08	11/05/13	22.8	67.7	0	9.5	129	-5.2	Y	
GIW-08	11/06/13	22.2	67.2	0	10.6	129	-5.3	Y	
GIW-08	11/07/13	23.2	67	0	9.8	129	-5.3	Y	
GIW-08	11/08/13	22.7	67.5	0	9.8	131	-5.1	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-08	11/11/13	25.3	65.7	0	9	125	-6.3	Y	
GIW-08	11/12/13	24.8	68.4	0	6.8	115	-5.3	N	Replaced piston rod - pump operational
GIW-08	11/13/13	22.2	68.5	0	9.3	130	-4.2	Y	
GIW-08	11/14/13	21.4	72.8	0	5.8	129	-3.6	Y	
GIW-08	11/15/13	21.4	67.7	0	10.9	130	-4.9	Y	
GIW-08	11/18/13	23.6	69.8	0	6.6	125	-7	Y	
GIW-08	11/19/13	24.2	67.4	0	8.4	127	-4.2	Y	
GIW-08	11/20/13	23.5	64.5	0	12	120	-4.7	Y	
GIW-08	11/21/13	25.3	69.4	0	5.3	112	-5.2	Y	
GIW-08	11/22/13	23.8	71.3	0	4.9	120	-4.5	Y	
GIW-08	11/25/13	26.3	72.9	0	0.8	117	-7.7	Y	
GIW-08	11/26/13	22.8	67.5	0.2	9.5	113	-3.4	N	Replaced 4 way valve - pump operational
GIW-08	11/27/13	23.6	70.2	0	6.2	108	-3.8	N	Replaced 4 way valve - pump operational
GIW-08	11/28/13	23.2	71.8	0	5	116	-5.1	Y	
GIW-08	11/29/13	21.3	70.8	0	7.9	119	-3.6	Y	
GIW-08	12/02/13	20.6	71	0	8.4	129	-5	Y	
GIW-08	12/03/13	24.9	64.1	0	11	115	-7	Y	
GIW-08	12/04/13	24.2	66.7	0	9.1	103	-5	Y	
GIW-08	12/05/13	23.6	61.6	0.9	13.9	90	-4.1	Y	
GIW-08	12/09/13	23.5	63.9	0.5	12.1	80	-4.2	N	2 inch air line frozen
GIW-08	12/10/13	23.1	63.9	0.1	12.9	87	-4	N	Replaced pump - pump operational
GIW-08	12/11/13	23.5	60.9	0	15.6	61	-1.8	N	Installed new pump - pump operational
GIW-08	12/12/13	4.5	66.8	0	28.7	106	2.6	Y	increased vac to -0.2 inches
GIW-08	12/13/13	14.7	64.8	0	20.5	125	-0.9	Y	
GIW-08	12/16/13	20.3	64.3	0	15.4	113	-1.9	Y	
GIW-08	12/17/13	24.3	68.3	0	7.4	119	-4.1	Y	
GIW-08	12/18/13	23.6	63.3	0	13.1	115	-4.5	Y	
GIW-08	12/19/13	25	65.7	0	9.3	120	-4.9	Y	
GIW-08	12/20/13	22.2	65	0	12.8	123	-4	Y	
GIW-08	12/23/13	25.6	64	0	10.4	98	-4.9	Y	
GIW-08	12/24/13	24.9	68.6	0	6.5	110	-4	Y	
GIW-08	12/25/13	23.8	68.6	0	7.6	105	-5.1	Y	
GIW-08	12/26/13	26.4	65.9	0	7.7	125	-4.7	Y	
GIW-08	12/27/13	23.9	65.6	0	10.5	120	-4.8	Y	
GIW-08	12/30/13	28.7	65.1	0	6.2	103	-6.9	Y	Reduced vac to -5.6 inches
GIW-08	12/31/13	23.2	65.5	0	11.3	110	-3.9	Y	
GIW-08	01/01/14	21.1	71.8	0	7.1	121	-4.4	NA	
GIW-08	01/03/14	28.9	69	0	2.1	100	-4.4	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-09	04/08/13	20.7	69.3	0.1	9.9	140	-0.1	N	
GIW-09	04/09/13	7.1	57.8	3.8	31.3	140	-0.1	Y	
GIW-09	04/10/13	10.7	65	0.9	23.4	140	-0.5	Y	
GIW-09	04/11/13	12.5	66.7	0.1	20.7	140	-0.4	Y	
GIW-09	04/12/13	3.2	66.8	0.3	29.7	130	-0.1	Y	
GIW-09	04/13/13	10.7	63.4	0.3	25.6	140	-0.8	Y	
GIW-09	04/14/13	1.3	65.2	0.2	33.3	140	0.7	Y	
GIW-09	04/15/13	12.4	65.3	0.4	21.9	140	-0.4	Y	
GIW-09	04/16/13	11	66	0.2	22.8	145	-0.4	Y	
GIW-09	04/17/13	16.2	59.9	0.7	23.2	135	-2.6	Y	
GIW-09	04/18/13	10.3	68	0.2	21.5	145	-0.2	Y	
GIW-09	04/19/13	10.3	59.6	1.1	29	130	-3	Y	
GIW-09	04/20/13	12.2	56.6	0.8	30.4	140	-3.1	Y	
GIW-09	04/21/13	9.8	54.3	1.2	34.7	140	-2.5	Y	
GIW-09	04/22/13	9.5	62.3	0.5	27.7	142	-2	Y	
GIW-09	04/23/13	8.7	56.1	0.8	34.4	140	-2.8	Y	
GIW-09	04/24/13	6.7	44.2	1.8	47.3	128	-4.7	Y	
GIW-09	04/25/13	8.1	50	0.8	41.1	140	-4.3	Y	
GIW-09	04/26/13	7	53.7	0.9	38.4	140	-3.3	Y	Pump Repair Made at 5:30 PM
GIW-09	04/27/13	10.1	54.1	1.4	34.4	136	-5.6	Y	
GIW-09	04/28/13	11.9	58.2	0.9	29	136	-4.1	Y	
GIW-09	04/29/13	10	52.9	0.8	36.3	145	-4	Y	
GIW-09	04/30/13	9.3	58.1	0.9	31.7	144	-4.1	Y	
GIW-09	05/01/13	10.7	60.6	0	28.7	140	-4.2	Y	
GIW-09	05/02/13	11.6	56.8	0.6	31	140	-4.8	Y	
GIW-09	05/03/13	13.2	56.5	0.7	29.6	138	-4.9	Y	
GIW-09	05/04/13	12	57.1	0.8	30.1	135	-5	Y	
GIW-09	05/05/13	13.8	58.5	0.1	27.6	140	-4.1	Y	Begin using fluke temp meter
GIW-09	05/06/13	12.9	59.5	0.1	27.5	138	-4.1	Y	
GIW-09	05/07/13	13.9	59.7	0.5	25.9	138	-4	Y	
GIW-09	05/08/13	15.5	52.7	0.6	31.2	136	-4.9	Y	
GIW-09	05/09/13	16.4	60.1	0.3	23.2	140	-3.2	Y	
GIW-09	05/10/13	18.5	57.6	0.2	23.7	136	-5.4	Y	
GIW-09	05/11/13	19	56.2	0.3	24.5	142	-4.2	Y	
GIW-09	05/12/13	17.3	57.6	0.1	25	138	-4.1	Y	
GIW-09	05/13/13	18.5	56.9	0.1	24.5	140	-4.2	Y	
GIW-09	05/14/13	4.6	65.5	0	29.9	143	-4.2	Y	
GIW-09	05/15/13	6.1	65.8	0.5	27.6	128	-4.1	Y	Installed check valve
GIW-09	05/16/13	2.7	61.9	1.2	34.2	133	-4.8	Y	
GIW-09	05/17/13	1.8	63.7	1.5	33	128	-4	Y	
GIW-09	05/18/13	1.4	65.1	0.7	32.8	120	-4.1	Y	
GIW-09	05/19/13	5.9	63.6	1	29.5	118	-4.2	Y	
GIW-09	05/20/13	4	65.2	1.1	29.7	124	-4	Y	
GIW-09	05/21/13	15.7	58.6	1.4	24.3	126	-3.9	Y	
GIW-09	05/22/13	18.5	58.6	1.7	21.2	136	-3.9	Y	
GIW-09	05/23/13	3.1	64.1	1.2	31.6	138	-4	Y	
GIW-09	05/24/13	5.1	62.3	0.9	31.7	144	-3.9	Y	
GIW-09	05/25/13	10	61.3	1.6	27.1	126	-4	Y	
GIW-09	05/26/13	1.6	65	1	32.4	139	-4.1	Y	
GIW-09	05/27/13	0.9	69.4	0.2	29.5	132	-4	Y	
GIW-09	05/28/13	1.1	67.6	0.1	31.2	118	-3.7	Y	
GIW-09	05/29/13	1.8	67	0.2	31	119	-4	Y	
GIW-09	05/30/13	2.1	67.6	0.4	29.9	125	-4.2	Y	
GIW-09	05/31/13	5.8	62.6	1.3	30.3	131	-4	Y	
GIW-09	06/01/13	18.4	60.2	1.4	20	146	-4.1	Y	
GIW-09	06/02/13	9.6	64.9	0.7	24.8	147	-4.5	Y	
GIW-09	06/03/13	1	62.9	0	36.1	148	-4.2	Y	
GIW-09	06/04/13	3	64	1.5	31.5	140	-4.7	Y	
GIW-09	06/05/13	6.7	65.7	0.7	26.9	135	-4	Y	
GIW-09	06/06/13	3.9	64.2	1.3	30.6	138	-3.9	Y	
GIW-09	06/07/13	1.7	61.1	0.8	36.4	141	-4	Y	
GIW-09	06/08/13	12.9	63.4	1.2	22.5	143	-4.2	Y	
GIW-09	06/09/13	7.8	61.4	1.1	29.7	140	-3.8	Y	
GIW-09	06/10/13	2.7	66.9	0.2	30.2	138	-4	Y	
GIW-09	06/11/13	1.4	67.9	0	30.7	131	-4	Y	
GIW-09	06/12/13	2	64.9	1.6	31.5	138	-4	Y	
GIW-09	06/13/13	8.8	62.2	1.5	27.5	135	-4.2	N	Replaced 1-inch rod seal - pump operating
GIW-09	06/14/13	0.8	64	0.1	35.1	138	-4.3	Y	
GIW-09	06/15/13	5.2	61.7	1.2	31.9	139	-4.1	Y	
GIW-09	06/16/13	14.8	62.5	1.9	20.8	135	-3.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-09	06/17/13	3.4	64.5	0.7	31.4	138	-4	Y	
GIW-09	06/18/13	1.4	65.6	0.5	32.5	136	-4	Y	
GIW-09	06/19/13	1.3	69.2	0.4	29.1	138	-4	Y	
GIW-09	06/20/13	1.4	70.1	0.3	28.2	133	-3.9	Y	
GIW-09	06/21/13	6.4	63.5	0.4	29.7	137	-4	Y	
GIW-09	06/22/13	1.4	62.6	0.8	35.2	134	-4	Y	
GIW-09	06/23/13	0.7	65.8	0	33.5	140	-4.1	Y	
GIW-09	06/24/13	2.2	63.5	0.6	33.7	138	-3.9	Y	Changed air box
GIW-09	06/25/13	1.2	66	0.1	32.7	140	-4.3	N	Replaced 1-inch rod seal, pump operating
GIW-09	06/26/13	1.5	67.8	0.3	30.4	139	-4	Y	
GIW-09	06/27/13	11.6	57.6	1.5	29.3	139	-4.1	Y	
GIW-09	06/28/13	2.5	68.1	0.2	29.2	138	-4	Y	
GIW-09	06/29/13	2.4	65.3	0.4	31.9	135	-4	Y	
GIW-09	06/30/13	8.5	69.3	0.3	21.9	138	-4	Y	
GIW-09	07/01/13	2.1	69.3	0.3	28.3	135	-4.1	Y	
GIW-09	07/02/13	12.2	69.6	0.3	17.9	141	-4	Y	
GIW-09	07/03/13	13.3	68.9	0	17.8	140	-4.1	Y	
GIW-09	07/04/13	15.1	56.1	2.1	26.7	138	-4	Y	
GIW-09	07/05/13	8.9	63	1.5	26.6	138	-4	Y	
GIW-09	07/06/13	1.3	68.3	0	30.4	136	-3.9	Y	
GIW-09	07/07/13	7.3	63.1	1.4	28.2	136	-4	Y	
GIW-09	07/08/13	6.4	67.4	1.4	24.8	138	-4.4	Y	
GIW-09	07/09/13	9.8	63.5	1.3	25.4	136	-3.6	Y	
GIW-09	07/10/13	0.9	68.2	0.5	30.4	135	-4.1	Y	
GIW-09	07/11/13	2.6	63.7	0.9	32.8	136	-4	Y	
GIW-09	07/12/13	1.9	64.8	0.3	33	134	-4.4	Y	
GIW-09	07/13/13	3.8	64.4	0.1	31.7	140	-4.1	Y	
GIW-09	07/14/13	0.8	65.2	0	34	137	-4.3	Y	
GIW-09	07/15/13	2.2	62.4	0.8	34.6	139	-4.3	Y	
GIW-09	07/16/13	12.9	52.7	5.7	28.7	148	-4.4	Y	Possible O2 sensor error
GIW-09	07/17/13	12.8	70.9	0.1	16.2	156	-0.2	Y	
GIW-09	07/18/13	16.7	67.8	0	15.5	155	-1.3	Y	
GIW-09	07/19/13	11.8	61.3	2.1	24.8	151	-0.5	Y	
GIW-09	07/20/13	10.5	67.8	0.2	21.5	148	-0.5	Y	
GIW-09	07/21/13	14.5	63.5	1.6	20.4	152	-1.5	Y	
GIW-09	07/22/13	16.9	60.8	2.2	20.1	157	-1.6	Y	
GIW-09	07/23/13	19.6	63.6	1.1	15.7	150	-1.1	Y	
GIW-09	07/24/13	12.6	60.3	1.9	25.2	152	-1	N	Replaced 4 way valve - pump operational
GIW-09	07/25/13	11	68.4	0.2	20.4	163	-0.8	N	Replaced 4 way valve - pump operational
GIW-09	07/26/13	10.3	67	0.5	22.2	164	-0.8	Y	
GIW-09	07/27/13	11.3	60.1	1.8	26.8	166	-1.8	Y	
GIW-09	07/28/13	12.2	61.8	1.5	24.5	160	-1.3	Y	
GIW-09	07/29/13	15.1	65.4	0	19.5	160	-1.8	N	Repaired bottom seal - pump operational
GIW-09	07/30/13	13.8	60.1	1.9	24.2	151	-2.3	Y	
GIW-09	07/31/13	15.4	62.5	1	21.1	151	-1.8	Y	
GIW-09	08/01/13	15.8	63.8	0.8	19.6	159	-2	N	Replaced air drive, I rod - pump operational
GIW-09	08/02/13	16.5	62.5	1.4	19.6	151	-2	Y	
GIW-09	08/03/13	13.3	61	1.6	24.1	151	-1.7	Y	
GIW-09	08/04/13	14.3	65.6	0.5	19.6	149	-1.6	Y	
GIW-09	08/05/13	15.8	66.4	0.3	17.5	150	-2.2	Y	
GIW-09	08/06/13	13.8	64	0.8	21.4	150	-2	Y	
GIW-09	08/07/13	11.9	59.5	1.8	26.8	146	-3	Y	
GIW-09	08/08/13	13.7	61.3	1.1	23.9	142	-2.6	Y	
GIW-09	08/09/13	12.1	60.4	1.8	25.7	146	-1.6	Y	
GIW-09	08/10/13	9.2	60.3	1.8	28.7	143	-1.6	Y	
GIW-09	08/11/13	10.8	69.8	0.3	19.1	144	-1.3	Y	
GIW-09	08/12/13	14.1	62	1.1	22.8	151	-2.9	Y	
GIW-09	08/13/13	14.8	59.7	1.8	23.7	148	-2.2	Y	
GIW-09	08/14/13	12.1	57.1	1.9	28.9	150	-2	Y	
GIW-09	08/15/13	14.6	64.4	0.5	20.5	154	-1.2	Y	
GIW-09	08/16/13	14.8	68	1.1	16.1	150	-1.4	Y	
GIW-09	08/17/13	15.1	60.5	1.3	23.1	151	-2.7	Y	
GIW-09	08/18/13	13.9	60.9	1.6	23.6	150	-2.4	Y	
GIW-09	08/19/13	16.4	62	1.3	20.3	152	-1.8	Y	
GIW-09	08/20/13	13.1	60.4	1.5	25	153	-1.8	N	Replaced 4 way valve - pump operational
GIW-09	08/21/13	13.8	61.7	1.3	23.2	153	-1.7	Y	
GIW-09	08/22/13	15.1	63.6	0.4	20.9	154	-1.4	Y	
GIW-09	08/23/13	14.7	59.9	1.6	23.8	152	-1.7	Y	
GIW-09	08/24/13	33.3	60.8	1.9	4	154	-1	Y	
GIW-09	08/25/13	15.7	61.8	1.8	20.7	147	-2.2	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-09	08/26/13	14.8	67.1	0	18.1	152	-0.7	Y	
GIW-09	08/27/13	13.3	62.4	1.6	22.7	153	-2.3	Y	
GIW-09	08/28/13	18.5	65	0.6	15.9	153	-1.8	Y	
GIW-09	08/29/13	12	60.7	1.8	25.5	152	-1.9	Y	
GIW-09	08/30/13	13.5	68.7	0	17.8	153	-1	Y	
GIW-09	08/31/13	13.4	59.9	1.7	25	151	-2.2	Y	
GIW-09	09/01/13	14.6	54.8	0.3	25.1	154	-1	Y	
GIW-09	09/02/13	12.4	61.9	1.9	23.8	142	-1.6	Y	
GIW-09	09/03/13	12	65.5	0	22.5	158	-1	Y	
GIW-09	09/04/13	10.2	60.8	1.8	27.2	146	-1	Y	
GIW-09	09/05/13	11.1	73.3	0	15.6	156	-0.5	Y	
GIW-09	09/06/13	13.7	72.1	0	14.2	154	-0.6	Y	
GIW-09	09/07/13	14.5	67.4	1.3	16.8	146	-0.9	Y	
GIW-09	09/08/13	6.1	76.8	0	17.1	149	-0.1	Y	
GIW-09	09/09/13	14.1	74.1	0	11.8	153	-0.4	Y	
GIW-09	09/10/13	11.9	67.6	1.8	18.7	151	-1.1	Y	
GIW-09	09/11/13	12.4	70.9	1.2	15.5	150	-1.5	Y	
GIW-09	09/12/13	12.8	70.5	1.2	15.5	150	-1.9	Y	
GIW-09	09/13/13	16.6	77.9	0	5.5	152	-0.7	Y	
GIW-09	09/14/13	12.1	69.6	1.9	16.4	149	-1.5	Y	
GIW-09	09/15/13	12.3	69	1.8	16.9	151	-1.1	N	Replaced 4 way valve-pump operational
GIW-09	09/16/13	12.3	68.7	1.1	17.9	150	-1	Y	
GIW-09	09/17/13	12.1	69.5	0.4	18	152	-0.9	Y	
GIW-09	09/18/13	12.2	71	0	16.8	153	-0.6	Y	
GIW-09	09/19/13	13.7	67.6	0.5	18.2	149	-1.5	Y	
GIW-09	09/20/13	13	75.8	0.4	10.8	151	-1	Y	
GIW-09	09/21/13	14	67.6	0	18.4	151	-0.9	Y	
GIW-09	09/22/13	12.7	74.3	0.8	12.2	155	-1	Y	
GIW-09	09/23/13	13.7	66.2	1.9	18.2	152	-3	Y	
GIW-09	09/25/13	11.8	75.9	0.3	12	156	-1.7	Y	
GIW-09	09/26/13	20.1	75.1	0	4.8	155	-0.8	Y	
GIW-09	09/27/13	11.9	71	0	17.1	154	-0.2	Y	
GIW-09	09/28/13	12.9	65.5	0.8	20.8	157	-1.7	Y	
GIW-09	09/29/13	11.2	67.4	0.8	20.6	152	-0.6	Y	
GIW-09	09/30/13	12.1	71.2	0	16.7	156	-0.7	Y	
GIW-09	10/01/13	10.5	63.9	1.6	24	158	-0.1	Y	Replaced broken rod - pump operational
GIW-09	10/02/13	8.1	66.8	0	25.1	160	-0.1	Y	
GIW-09	10/03/13	11.6	66.4	1.7	20.3	159	-2.2	Y	
GIW-09	10/04/13	12	67.5	0.3	20.2	160	-1.9	Y	
GIW-09	10/05/13	11.1	74.6	0	14.3	154	-0.2	Y	
GIW-09	10/06/13	12.5	70.8	0.5	16.2	156	-1.3	Y	
GIW-09	10/07/13	12.7	75.6	0	11.7	157	-0.6	Y	
GIW-09	10/08/13	14.1	76.1	0	9.8	160	-0.1	Y	
GIW-09	10/09/13	11.6	73.4	0.5	14.5	159	-1	Y	
GIW-09	10/10/13	12.9	76.8	0	10.3	159	-0.5	Y	
GIW-09	10/11/13	11.9	74.2	0.4	13.5	159	-0.5	Y	
GIW-09	10/12/13	15.8	61.5	3.7	19	154	-2.4	Y	Adjusted vac reduced O2 to 2.9%
GIW-09	10/13/13	8.8	76.8	0	14.4	157	-0.1	Y	
GIW-09	10/14/13	12.1	71	0	16.9	155	-0.1	Y	
GIW-09	10/15/13	11.5	70.5	0.2	17.8	155	-1.2	Y	
GIW-09	10/16/13	11.2	68.4	0.5	19.9	154	-0.8	Y	
GIW-09	10/17/13	11.3	69.7	0.4	18.6	156	-1.6	Y	
GIW-09	10/18/13	10.4	61.4	2.7	25.5	150	-2.1	Y	
GIW-09	10/19/13	10.7	77.1	0	12.2	150	-1	Y	
GIW-09	10/20/13	10.7	71.2	0	18.1	155	-0.8	Y	
GIW-09	10/21/13	10.7	68.9	1.6	18.8	153	-1.2	Y	
GIW-09	10/22/13	11.5	83.6	0	4.9	151	-0.5	Y	
GIW-09	10/23/13	10.9	79.3	0.4	9.4	158	-1.1	Y	
GIW-09	10/24/13	11.3	70.2	0.4	18.1	154	-1.1	Y	
GIW-09	10/25/13	11	69.6	0.7	18.7	149	-1.8	Y	
GIW-09	10/28/13	10.4	68.6	1	20	155	-1.2	N	Replaced bottom seal - pump operational
GIW-09	10/29/13	10.7	71.7	0.4	17.2	146	-1.8	Y	
GIW-09	10/30/13	9.6	74.7	0	15.7	150	-0.5	Y	
GIW-09	10/31/13	10.4	75.3	0	14.3	155	-2.1	Y	
GIW-09	11/01/13	10.6	70.4	0	19	145	-1.6	Y	
GIW-09	11/04/13	5.9	75.3	0	18.8	151	-1.3	Y	
GIW-09	11/05/13	11.5	66.3	2	20.2	149	-2.2	Y	
GIW-09	11/06/13	10.7	68.8	1.3	19.2	147	-1.7	Y	
GIW-09	11/07/13	11	71.9	0.2	16.9	155	-1.3	Y	
GIW-09	11/08/13	11	73.7	0	15.3	149	-1	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-09	11/11/13	10.5	71.1	0.3	18.1	154	-1.3	Y	
GIW-09	11/12/13	9.5	70.5	1.8	18.2	150	-1.6	N	Replaced piston rod - pump operational
GIW-09	11/13/13	6.7	77.1	0	16.2	150	0.4	Y	
GIW-09	11/14/13	5.2	80.5	0	14.3	156	-5.1	Y	
GIW-09	11/15/13	10.2	73	0	16.8	159	-3.6	Y	
GIW-09	11/18/13	11	73.1	0.8	15.1	154	-2.4	Y	
GIW-09	11/19/13	11.6	74.7	0	13.7	158	-1.5	Y	
GIW-09	11/20/13	10.8	70.9	0	18.3	155	-2.3	Y	
GIW-09	11/21/13	0.6	76.9	0.9	21.6	149	-8	Y	Adjusted vac to -2.7 inches
GIW-09	11/22/13	0.5	82.9	0	16.6	150	2	Y	Adjusted vac to -2.9 inches
GIW-09	11/25/13	6.4	81	0	12.6	150	-8.1	Y	
GIW-09	11/26/13	0.3	77.6	0.8	21.3	113	-12.9	Y	Adjusted vac to -3.8 inches
GIW-09	11/27/13	0.3	81.8	0	17.9	117	0.4	Y	Adjusted vac to -1.8 inches
GIW-09	11/28/13	0.3	76.7	0	23	135	-8.4	Y	
GIW-09	11/29/13	0.5	80.7	0	18.8	156	3.5	Y	Adjusted vac to -1 inches
GIW-09	12/02/13	11.8	65.8	0	22.4	149	-2.8	Y	
GIW-09	12/03/13	10.7	73.5	0	15.8	159	-4.9	Y	
GIW-09	12/04/13	11.7	69.8	0.2	18.3	157	-4.2	Y	
GIW-09	12/05/13	12.2	64.9	1.4	21.5	158	-3.1	Y	
GIW-09	12/09/13	12.2	68	0.8	19	154	-4.9	Y	
GIW-09	12/10/13	11.9	67.8	0.5	19.8	157	-4.1	Y	
GIW-09	12/11/13	11.4	69	0.4	19.2	158	-2.9	Y	
GIW-09	12/12/13	13.1	66.7	0.5	19.7	157	-3.3	Y	
GIW-09	12/13/13	11.9	68	0.8	19.3	162	-7.4	Y	
GIW-09	12/16/13	11.9	57.6	3.5	27	156	-2.4	Y	Decreased vac to -0.5
GIW-09	12/17/13	14.4	70.6	0.2	14.8	156	-0.6	Y	Increased vac to -1.2 inches
GIW-09	12/18/13	12.3	61.8	1.8	24.1	156	-1.1	Y	
GIW-09	12/19/13	12.6	63.9	1.1	22.4	159	-1.4	Y	
GIW-09	12/20/13	13.7	68.8	0	17.5	156	-3.2	Y	Increased vac to -3.8 inches
GIW-09	12/23/13	6.7	65.9	0	27.4	154	-8.2	Y	Reduced vac to -6.6 inches
GIW-09	12/24/13	1	72.6	0	26.4	145	-7	Y	Reduced vac to -5.8 inches
GIW-09	12/25/13	0.2	80.3	0	19.5	110	-16.6	Y	Reduced vac to -6.0 inches
GIW-09	12/26/13	0.7	73.9	0	25.4	130	-4.5	Y	
GIW-09	12/27/13	0.4	71.5	0	28.1	143	-4.9	Y	
GIW-09	12/30/13	1	74.1	0	24.9	123	3.1	Y	Increased vac to -0.8 inches
GIW-09	12/31/13	0.8	73.3	0	25.9	115	-1.4	Y	Increased vac to -3.0 inches
GIW-09	01/01/14	1	73.2	0	25.8	121	-9.2	NA	Reduced vac to -8.7 inches
GIW-09	01/03/14	4.9	61.4	0	33.7	147	-10.7	Y	Reduced vac to -5.9 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-10	04/08/13	11	70	0	19	160	-0.9	N	
GIW-10	04/09/13	0.6	68.6	0	30.8	160	-0.5	Y	
GIW-10	04/10/13	0.5	68.2	0.2	31.1	170	1.4	Y	
GIW-10	04/11/13	0.6	70	0.1	29.3	160	-1.5	Y	
GIW-10	04/12/13	0.7	69	0.2	30.1	165	0	Y	
GIW-10	04/13/13	0.6	68.5	0.3	30.6	165	-0.7	Y	
GIW-10	04/14/13	0.6	67.9	0.2	31.3	170	-0.2	Y	
GIW-10	04/15/13	0.8	67.2	0.3	31.7	170	-0.1	Y	
GIW-10	04/16/13	0.7	69.2	0.2	29.9	170	-0.9	Y	
GIW-10	04/17/13	1	67.8	0.3	30.9	170	-2.6	Y	
GIW-10	04/18/13	0.8	69.8	0.2	29.2	160	-0.7	Y	
GIW-10	04/19/13	0.7	67.8	0.5	31	165	-2.6	Y	
GIW-10	04/20/13	1.6	66.5	0.2	31.7	170	-2.7	Y	
GIW-10	04/21/13	0.9	64.6	0.7	33.8	172	-2.3	Y	
GIW-10	04/22/13	1.2	70.4	0.3	28.1	172	-1.4	Y	
GIW-10	04/23/13	0.8	67.4	0.4	31.4	172	-2.7	Y	
GIW-10	04/24/13	0.6	66	0.3	33.1	168	-4.7	Y	
GIW-10	04/25/13	0.8	65.9	0	33.3	175	-4.7	Y	
GIW-10	04/26/13	0.5	69.6	0.1	29.8	170	-4.1	Y	
GIW-10	04/27/13	0.8	70.4	0.7	28.1	178	-4.8	Y	
GIW-10	04/28/13	0.5	72	0.4	27.1	176	-4.2	Y	
GIW-10	04/29/13	0.4	71.1	0.3	28.2	178	-4.2	Y	
GIW-10	04/30/13	0.4	70.3	0.5	28.8	175	-3	Y	
GIW-10	05/01/13	0.3	71.9	0	27.8	174	-3.4	Y	
GIW-10	05/02/13	0.5	68.9	0	30.6	180	-4.3	Y	
GIW-10	05/03/13	0.6	68.2	0.5	30.7	170	-4.7	Y	
GIW-10	05/04/13	0.5	69.2	0.1	30.2	174	-4.2	Y	
GIW-10	05/05/13	0.4	69.9	0	29.7	171	-4.5	Y	Begin using fluke temp meter
GIW-10	05/06/13	0.5	70.2	0.1	29.2	178	-4.2	Y	
GIW-10	05/07/13	0.5	67.7	0.3	31.5	178	-4.4	Y	
GIW-10	05/08/13	1.3	65.6	0.2	32.9	179	-4.9	Y	
GIW-10	05/09/13	0.6	67.5	0	31.9	180	-3.1	Y	
GIW-10	05/10/13	0.7	69.4	0	29.9	180	-4.8	Y	
GIW-10	05/11/13	3.1	67.8	0	29.1	180	-6.2	Y	
GIW-10	05/12/13	2.3	70.5	0	27.2	179	-4.1	Y	
GIW-10	05/13/13	1.6	66.4	0	32	180	-4.2	Y	Pulled pump and replaced seals
GIW-10	05/14/13	1.5	63.1	0	35.4	179	-2.2	Y	
GIW-10	05/15/13	1.2	66.8	0.3	31.7	180	-2.3	Y	Installed check valve
GIW-10	05/16/13	1.9	66.1	0	32	180	-2.4	Y	
GIW-10	05/17/13	0.7	68.9	0	30.4	180	-2.5	Y	
GIW-10	05/18/13	0.4	66.2	0.3	33.1	178	-1.7	Y	
GIW-10	05/19/13	0.4	70.8	0	28.8	172	-1.3	Y	
GIW-10	05/20/13	2.3	68.9	0	28.8	180	-2.5	Y	
GIW-10	05/21/13	0.3	66.9	0.4	32.4	180	-3.3	Y	
GIW-10	05/22/13	0.4	67.8	0	31.8	176	-2.5	Y	
GIW-10	05/23/13	0.2	68.6	0.2	31	180	-3.5	Y	
GIW-10	05/24/13	0.9	65.9	0	33.2	180	-2.8	Y	
GIW-10	05/25/13	4.1	65.7	0.5	29.7	180	-2.7	Y	
GIW-10	05/26/13	0.2	68.2	0.1	31.5	180	-2	Y	
GIW-10	05/27/13	0.4	67.9	0.4	31.3	181	-1.5	Y	
GIW-10	05/28/13	0.6	67.1	0.4	31.9	180	-0.5	Y	
GIW-10	05/29/13	0.6	66.8	0.2	32.4	181	-0.8	Y	Vacuum low, working on header
GIW-10	05/30/13	1.4	67.1	0.2	31.3	176	-3.7	Y	
GIW-10	05/31/13	0.4	67.7	0	31.9	178	-2.3	Y	
GIW-10	06/01/13	0.3	67.6	0	32.1	177	-3.2	Y	
GIW-10	06/02/13	0.7	70.3	0	29	177	-4	Y	
GIW-10	06/03/13	0.3	66.4	0	33.3	180	-2.1	Y	Working on available vac issue
GIW-10	06/04/13	0.3	67.2	0.3	32.2	181	-0.9	Y	Working on available vac issue
GIW-10	06/05/13	0.3	66.5	0.6	32.6	179	-1.9	Y	Working on available vac issue
GIW-10	06/06/13	0.2	66.5	0.7	32.6	179	-2.5	Y	1-inch rod seal replaced
GIW-10	06/07/13	0.2	61.8	0.2	37.8	180	-1.2	Y	Working on available vac issue
GIW-10	06/08/13	0.5	64.6	0.1	34.8	181	-0.6	Y	Sag main header, jumper installed late 6-8
GIW-10	06/09/13	1.8	64.4	0.3	33.5	180	-3.4	Y	Vacuum restored
GIW-10	06/10/13	2.3	63.6	0.6	33.5	181	-4.7	Y	
GIW-10	06/11/13	0.1	64.9	0.3	34.7	179	-4.6	Y	
GIW-10	06/12/13	0.2	63.4	0.1	36.3	180	-4	N	Replaced 1-inch rod seal - pump operating
GIW-10	06/13/13	0.2	65.6	0.3	33.9	180	-4.6	Y	
GIW-10	06/14/13	0.3	64	0.5	35.2	180	-3.9	Y	Pulled pump and cleaned
GIW-10	06/15/13	0.2	65.5	0.8	33.5	180	-3.9	Y	
GIW-10	06/16/13	0.3	66.9	0	32.8	182	-2.2	Y	
GIW-10	06/17/13	0.3	65.1	0.6	34	180	-4.5	Y	
GIW-10	06/18/13	0.1	67	0.3	32.6	182	-4.2	Y	
GIW-10	06/19/13	2.4	66.7	0.4	30.5	182	-3.9	Y	
GIW-10	06/20/13	0.7	68.5	0.6	30.2	181	-4	Y	
GIW-10	06/21/13	0.2	67.4	0.3	32.1	182	-3.8	Y	
GIW-10	06/22/13	0.2	65	0.8	34	180	-4.3	Y	
GIW-10	06/23/13	0.4	63.4	0.5	35.7	181	-4	Y	
GIW-10	06/24/13	1.8	66.1	0.4	31.7	180	-4	Y	
GIW-10	06/25/13	0.8	67.1	0.5	31.6	182	-4.4	Y	
GIW-10	06/26/13	0.8	63.9	1.3	34	181	-4	Y	
GIW-10	06/27/13	0.1	60.8	1.3	37.8	182	-4.5	N	Replaced 1-inch rod seal - pump operating
GIW-10	06/28/13	0.3	65.4	0.5	33.8	182	-3.9	Y	
GIW-10	06/29/13	0.1	64.2	0.4	35.3	183	-4.5	Y	
GIW-10	06/30/13	0	65.4	0.7	33.9	182	-4.8	Y	
GIW-10	07/01/13	0.1	63.5	0.7	35.7	180	-4.4	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-10	07/02/13	0.1	62.5	0.5	36.9	180	-4.3	Y	
GIW-10	07/03/13	0.2	65.7	0.3	33.8	181	-3.9	Y	
GIW-10	07/04/13	0.1	64	0.7	35.2	182	-4.1	Y	
GIW-10	07/05/13	0.2	66.1	0.4	33.3	182	-4	Y	
GIW-10	07/06/13	0	64	0.1	35.9	183	-4.6	Y	
GIW-10	07/07/13	0.6	65.1	0.1	34.2	183	-4	Y	
GIW-10	07/08/13	0.2	66.5	0.4	32.9	182	-4	Y	
GIW-10	07/09/13	0.7	63.5	0.5	35.3	182	-4.2	Y	
GIW-10	07/10/13	1	66.5	0.4	32.1	182	-4.6	Y	
GIW-10	07/11/13	0.9	63.6	1	34.5	182	-4	Y	
GIW-10	07/12/13	1	61.4	1.9	35.7	182	-3.9	Y	
GIW-10	07/13/13	1	73	0.3	25.7	185	-4.1	Y	
GIW-10	07/14/13	0.5	71.9	0	27.6	179	-4	Y	
GIW-10	07/15/13	0.3	78.9	0.1	20.7	178	-4.4	Y	
GIW-10	07/17/13	1.3	69.5	0	29.2	185	-3.8	Y	collected 10 mins after midnight
GIW-10	07/17/13	1.2	67.5	0.4	30.9	185	-2.5	Y	
GIW-10	07/18/13	1.2	67.8	0.2	30.8	186	-2.1	Y	
GIW-10	07/19/13	0.9	68	0.2	30.9	185	-2.2	Y	
GIW-10	07/20/13	0.8	66.7	0.3	32.2	185	-2.1	Y	
GIW-10	07/21/13	0.8	66.7	0.2	32.3	184	-2.4	Y	
GIW-10	07/22/13	0.9	66.5	0.4	32.2	185	-2.3	Y	
GIW-10	07/23/13	1.1	67.7	0.4	30.8	185	-2.1	Y	Pulled and Cleaned Pump
GIW-10	07/24/13	1.1	66	0.5	32.4	184	-3.8	Y	
GIW-10	07/25/13	0.6	67.6	0.4	31.4	185	-2.2	Y	
GIW-10	07/26/13	0.7	66.6	0.8	31.9	185	-1.5	Y	
GIW-10	07/27/13	0.4	63.4	0.4	35.8	183	-2	Y	
GIW-10	07/28/13	0.5	63.2	0.2	36.1	186	-3.2	Y	
GIW-10	07/29/13	0.7	62.7	0	36.6	187	-1.4	Y	
GIW-10	07/30/13	0.4	63.9	0	35.7	187	-1.5	Y	
GIW-10	07/31/13	0.4	62.8	0.4	36.4	186	-1.6	Y	
GIW-10	08/01/13	0.6	65.6	0	33.8	187	-1.3	Y	
GIW-10	08/02/13	0.4	66.1	0	33.5	187	-0.8	Y	
GIW-10	08/03/13	0.6	64	0.4	35	186	-1.5	Y	
GIW-10	08/04/13	0.5	66.3	0.3	32.9	186	-0.9	Y	
GIW-10	08/05/13	0.5	66.1	0.3	33.1	184	-0.7	Y	
GIW-10	08/06/13	0.3	65.8	0.3	33.6	186	-1.1	Y	
GIW-10	08/07/13	1.7	67.2	0	31.1	183	-2.1	Y	
GIW-10	08/08/13	0.9	67.1	0.2	31.8	186	-2.4	Y	
GIW-10	08/09/13	1	67.2	0.3	31.5	185	-2.3	Y	
GIW-10	08/10/13	1	66.2	0.2	32.6	185	-3.1	N	Replaced cylinder head, pump operational
GIW-10	08/11/13	1	65.6	0.5	32.9	185	-2.5	Y	
GIW-10	08/12/13	0.9	65.5	0.7	32.9	184	-2.5	Y	
GIW-10	08/13/13	0.8	71.6	0.3	27.3	183	-3.2	Y	
GIW-10	08/14/13	1.2	63.6	0.2	35	186	-3.2	Y	
GIW-10	08/15/13	1.1	66.4	0.1	32.4	182	-3.1	Y	
GIW-10	08/16/13	1	65.5	0	33.5	183	-3	Y	
GIW-10	08/17/13	1.1	64	0	34.9	182	-2.7	Y	
GIW-10	08/18/13	1	66.4	0.1	32.5	183	-2	Y	
GIW-10	08/19/13	1.7	65	0.4	32.9	185	-2.1	Y	
GIW-10	08/20/13	1.4	67	0	31.6	183	-2.9	Y	
GIW-10	08/21/13	0.9	67.4	0	31.7	184	-1.8	Y	
GIW-10	08/22/13	1.6	67.2	0	31.2	185	-2.6	Y	
GIW-10	08/23/13	1.8	66.7	0	31.5	183	-1.8	Y	
GIW-10	08/24/13	0.7	69.8	0.2	29.3	182	-1.2	Y	
GIW-10	08/25/13	1	71.5	0.3	27.2	183	-2.6	Y	
GIW-10	08/26/13	1.1	66	0	32.9	185	-2.3	Y	
GIW-10	08/27/13	1.8	67.5	0.1	30.6	185	-3.1	Y	
GIW-10	08/28/13	1	66.7	0	32.3	184	-1.9	Y	
GIW-10	08/29/13	1.2	71.3	0	27.5	184	-2.7	Y	
GIW-10	08/30/13	0.9	69.4	0	29.7	186	-1.9	Y	
GIW-10	08/31/13	0.9	65	0	34.1	185	-1.7	Y	
GIW-10	09/01/13	1.4	66.8	0.2	34	184	-2.7	Y	
GIW-10	09/02/13	1	67.1	0.3	31.6	185	-2.3	Y	
GIW-10	09/03/13	4.7	66.5	0.1	28.7	188	-2.1	Y	
GIW-10	09/04/13	1	63.9	0	35.1	186	-1.8	Y	
GIW-10	09/05/13	0.9	69	0	30.1	186	-2.3	Y	
GIW-10	09/06/13	1.7	70.8	0	27.5	188	-0.8	Y	
GIW-10	09/07/13	1.1	69.3	0	29.6	187	-2.1	Y	
GIW-10	09/08/13	0.8	69.7	0	29.5	187	-1.9	Y	
GIW-10	09/09/13	0.7	70.7	0	28.6	187	-1.1	Y	
GIW-10	09/10/13	0.9	73.2	0.2	25.7	182	-1.8	Y	
GIW-10	09/11/13	0.8	72.4	0	26.8	187	-1.4	N	Replaced 4 way valve, pump operational
GIW-10	09/12/13	0.9	71.1	0	28	187	-1.9	Y	
GIW-10	09/13/13	0.2	76.9	0	22.9	183	-1.8	Y	
GIW-10	09/14/13	1.6	71.1	0.4	26.9	183	-2.4	Y	
GIW-10	09/15/13	0.8	71.6	0.1	27.5	182	-1.3	N	Replaced 4 way valve, pump operational
GIW-10	09/16/13	0.9	69.3	0	29.8	185	-1.5	Y	
GIW-10	09/17/13	0.9	66.8	0	32.3	186	-1.6	Y	
GIW-10	09/18/13	0.3	78.2	0	21.5	183	-2.1	Y	
GIW-10	09/19/13	0.7	72.1	0	27.2	184	-2.1	Y	
GIW-10	09/20/13	1	74.1	0	24.9	185	-1.5	Y	
GIW-10	09/21/13	1	66.2	0	32.8	187	-1.4	Y	
GIW-10	09/22/13	1	72.5	0	26.5	185	-0.8	N	New pump installed - pump operational
GIW-10	09/23/13	0.2	80.3	0	19.5	183	-2.4	Y	
GIW-10	09/25/13	1.1	75.1	0	23.8	183	-3.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-10	09/26/13	1	75	0	24	182	-3.2	Y	
GIW-10	09/27/13	0.8	70.7	0	28.5	182	-1.2	Y	
GIW-10	09/28/13	0	73.4	0	26.6	177	-4.6	Y	
GIW-10	09/29/13	0.2	72.4	0	27.4	177	-6.1	N	Replaced air box - pump operational
GIW-10	09/30/13	0.1	72.8	0	27.1	177	-1.7	Y	
GIW-10	10/01/13	0.2	72.8	0	27	176	-1.4	Y	
GIW-10	10/02/13	1	72.6	0	26.4	179	-0.1	Y	
GIW-10	10/03/13	0.2	76.7	0.1	23	178	-3.3	Y	
GIW-10	10/04/13	0.3	71.1	0	28.6	176	-3.1	Y	
GIW-10	10/05/13	0.3	78.7	0	21	174	-5	Y	
GIW-10	10/06/13	0.2	78	0	21.8	172	-5.5	Y	
GIW-10	10/07/13	0.2	77.1	0	22.7	178	-2.9	Y	
GIW-10	10/08/13	0.3	80.5	0	19.2	176	-0.8	Y	
GIW-10	10/09/13	0.2	79.8	0	20	177	-1.8	Y	
GIW-10	10/10/13	0.3	80.8	0	18.9	176	-1.6	Y	
GIW-10	10/11/13	0.5	80.1	0	19.4	178	-1.6	Y	
GIW-10	10/12/13	0.4	80.5	0	19.1	174	-3.7	Y	
GIW-10	10/13/13	1.1	79.9	0	19	179	-2.4	Y	
GIW-10	10/14/13	1.1	72.7	0	26.2	178	-0.9	Y	
GIW-10	10/15/13	0.2	77.4	0	22.4	173	-4.4	Y	
GIW-10	10/16/13	0.2	78.8	0	21	164	-2.8	Y	
GIW-10	10/17/13	0.2	76.1	0.1	23.6	172	-3.7	Y	
GIW-10	10/18/13	0.2	79.1	0.5	20.2	163	-3.1	Y	
GIW-10	10/19/13	0.2	83.5	0.1	16.2	168	-5	Y	
GIW-10	10/20/13	0.3	79.3	0	20.4	167	-4.5	Y	
GIW-10	10/21/13	0.2	81.9	0.3	17.6	168	-6	Y	
GIW-10	10/22/13	0.2	90.7	0	9.1	169	-5	Y	
GIW-10	10/23/13	0.3	89	0	10.7	170	-4.6	Y	
GIW-10	10/24/13	0.2	77.8	0.3	21.7	170	-6.1	Y	
GIW-10	10/25/13	0.2	76.6	0.3	22.9	174	-5.7	Y	
GIW-10	10/28/13	0.1	76	1.4	22.5	157	-5.3	N	Replace air box - pump operational
GIW-10	10/29/13	0.1	73.5	2.3	24.1	155	-5.2	Y	
GIW-10	10/30/13	0.1	78	1.5	20.4	153	-4	Y	
GIW-10	10/31/13	0.2	76.6	1.8	21.4	145	-4.8	Y	
GIW-10	11/01/13	0.1	75.1	2.7	22.1	147	-4.1	Y	
GIW-10	11/04/13	0.1	77.1	1.5	21.3	135	-1.3	Y	
GIW-10	11/05/13	0.6	75.7	2.4	21.3	142	-3.4	Y	
GIW-10	11/06/13	0.2	80.6	0.3	18.9	155	-1.1	Y	
GIW-10	11/07/13	0.2	74.8	2.7	22.3	155	-3.9	Y	
GIW-10	11/08/13	0.2	78.4	2	19.4	152	-2.7	Y	
GIW-10	11/11/13	0.1	75.8	2.1	22	148	-4	Y	
GIW-10	11/12/13	0.1	78.4	2.7	18.8	140	-3.4	N	Fiberglass rod broke, will be replaced
GIW-10	11/13/13	0.1	80.7	1.7	17.5	144	-2.3	N	Fiberglass rod broke, will be replaced
GIW-10	11/14/13	0.1	85.5	0.8	13.6	149	-2	Y	Fiberglass rod broke, will be replaced
GIW-10	11/15/13	0.2	84.5	0	15.3	153	6.3	Y	Fiberglass rod broke, will be replaced
GIW-10	11/18/13	0.2	88.5	0	11.3	144	-3.9	Y	Fiberglass rod broke, will be replaced
GIW-10	11/19/13	0.3	77.9	0	21.8	162	6.8	Y	Fiberglass rod broke, will be replaced, adjusted vac to -2.5 inches
GIW-10	11/20/13	0.1	81.8	0	18.1	136	-3.5	Y	Fiberglass rod broke, will be replaced
GIW-10	11/21/13	0.2	86.4	0	13.4	150	11.7	N	Replaced rod and pump-pump operational, adjusted vac to -3.6 inches
GIW-10	11/22/13	0.2	88.4	0	11.4	145	-3.2	Y	
GIW-10	11/25/13	0.2	89.9	0	9.9	147	-5.5	Y	
GIW-10	11/26/13	0.3	83.2	0.2	16.3	144	-3.1	Y	
GIW-10	11/27/13	0.3	85.7	0	14	147	-4.7	Y	
GIW-10	11/28/13	0.2	78.3	0	21.5	155	-4	Y	
GIW-10	11/29/13	0.3	86	0	13.7	155	-4.7	Y	
GIW-10	12/02/13	0.3	77.9	0	21.8	162	-4.5	Y	
GIW-10	12/03/13	0.5	78.7	0	20.8	161	-4.2	Y	
GIW-10	12/04/13	0.3	79.9	0	19.8	159	-4.6	Y	
GIW-10	12/05/13	0.2	76.8	0.5	22.5	171	-7.5	Y	
GIW-10	12/09/13	0.3	77.3	0	22.4	156	-4	Y	
GIW-10	12/10/13	0.5	78.2	0	21.3	144	-4.6	Y	
GIW-10	12/11/13	0.2	76.9	0	22.9	161	8	Y	Made adjustment to vac to 0.1 inches
GIW-10	12/12/13	0.3	75	0.2	24.5	164	-4.2	Y	
GIW-10	12/13/13	0.3	83.6	0	16.1	172	4.5	Y	Increased vac to -1.3 inches
GIW-10	12/16/13	0.3	73.1	0	26.6	181	-4	Y	
GIW-10	12/17/13	0.8	74.2	0	25	180	-4.8	Y	
GIW-10	12/18/13	0.5	69.2	0	30.3	179	-4.8	Y	
GIW-10	12/19/13	0.8	70.6	0	28.6	182	-4.1	Y	
GIW-10	12/20/13	0.4	71.3	0	28.3	180	-4.9	Y	
GIW-10	12/23/13	0.5	73.6	0.2	25.7	165	-17.7	Y	Reduced vac to -14.3 inches
GIW-10	12/24/13	0.7	76.3	0	23	161	-12.6	Y	Reduced vac to -8.5 inches
GIW-10	12/25/13	0.2	82.7	0	17.1	173	16.5	Y	Increased vac to -2.7 inches
GIW-10	12/26/13	0.4	74.3	0	25.3	181	-4.3	Y	
GIW-10	12/27/13	0.4	72	0	27.6	177	-4.3	Y	
GIW-10	12/30/13	0.4	75.9	0.3	23.4	152	-18.9	Y	Reduced vac to -13.3 inches
GIW-10	12/31/13	0.6	76	0	23.4	165	-4.9	Y	
GIW-10	01/01/14	0.5	76.9	0	22.6	165	-4.1	NA	
GIW-10	01/03/14	0.4	77.9	0	21.7	167	3.1	Y	Increased vac to -1.4 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-11	04/08/13	15.1	73.4	0	11.5	120	-0.2	N	
GIW-11	04/09/13	21.6	69	1.3	8.1	130	-0.3	Y	
GIW-11	04/10/13	14	71.8	0.2	14	120	0.7	Y	
GIW-11	04/11/13	18.7	73.8	0.1	7.4	130	-1.5	Y	
GIW-11	04/12/13	14.9	71.4	0.2	13.5	40	-0.1	Y	
GIW-11	04/13/13	14.7	72.6	0.3	12.4	120	-0.2	Y	
GIW-11	04/14/13	15	71.1	0.2	13.7	120	0.1	Y	
GIW-11	04/15/13	16.2	72	0.2	11.6	130	-0.2	Y	
GIW-11	04/16/13	16.8	72.3	0.3	10.6	120	-0.8	Y	
GIW-11	04/17/13	18.4	69.9	0.3	11.4	130	-2.4	Y	
GIW-11	04/18/13	17.4	72.5	0.3	9.8	130	-0.6	Y	
GIW-11	04/19/13	15.8	69.7	0.4	14.1	120	-2.1	Y	
GIW-11	04/20/13	16.6	66.5	0.3	16.6	130	-2.7	Y	
GIW-11	04/21/13	16.2	63.6	0.6	19.6	130	-2.6	Y	
GIW-11	04/22/13	16.8	69.3	0.2	13.7	130	-1.9	Y	
GIW-11	04/23/13	16.7	67.3	0.4	15.6	130	-3.2	Y	
GIW-11	04/24/13	14.4	62.4	0	23.2	130	-4.8	Y	
GIW-11	04/25/13	14.7	61.4	0	23.9	130	-4.2	Y	
GIW-11	04/26/13	14.9	65.2	0.3	19.6	135	-3.5	Y	
GIW-11	04/27/13	16.8	65.2	0.6	17.4	128	-5.8	Y	
GIW-11	04/28/13	16.3	70.2	0.4	13.1	138	-4.1	Y	
GIW-11	04/29/13	16	68.2	0.2	15.6	135	-3.9	Y	
GIW-11	04/30/13	14.6	66.2	0.7	18.5	135	-4	Y	
GIW-11	05/01/13	15.7	69.3	0.1	14.9	130	-4	Y	
GIW-11	05/02/13	15.9	65.5	0.7	17.9	125	-4.9	Y	
GIW-11	05/03/13	14.1	65.7	0.7	19.5	138	-4.9	Y	
GIW-11	05/04/13	13	68.6	0.2	18.2	122	-4	Y	
GIW-11	05/05/13	13.3	67.8	0	18.9	125	-4	Y	Begin using fluke temp meter
GIW-11	05/06/13	12.9	63.6	0	23.5	130	-4	Y	
GIW-11	05/07/13	12.8	61.9	0.8	24.5	133	-4.2	Y	
GIW-11	05/08/13	10.5	53.7	1.6	34.2	136	-4.8	Y	
GIW-11	05/09/13	12	60.5	0.9	26.6	133	-3.4	Y	
GIW-11	05/10/13	14.4	57.3	1.5	26.8	132	-4.8	Y	
GIW-11	05/11/13	11.2	55.6	1.7	31.5	133	-5.5	Y	
GIW-11	05/12/13	12.1	58.1	1.4	28.4	131	-4	Y	
GIW-11	05/13/13	11.7	57.2	1.2	29.9	136	-4	Y	
GIW-11	05/14/13	13.4	63.1	0.1	23.4	133	-3.4	Y	
GIW-11	05/15/13	15	55.8	1.6	27.6	133	-4	Y	Installed check valve
GIW-11	05/16/13	11.9	56.4	1.3	30.4	135	-4.1	Y	
GIW-11	05/17/13	17.1	57.5	1.3	24.1	134	-3.9	Y	
GIW-11	05/18/13	13.1	59.7	0.9	26.3	132	-3.3	Y	
GIW-11	05/19/13	15.2	67.1	0.1	17.6	130	-2.6	Y	
GIW-11	05/20/13	20.4	62.2	0.7	16.7	134	-3.8	Y	
GIW-11	05/21/13	14.6	61.2	0.9	23.3	135	-4.3	Y	
GIW-11	05/22/13	16.3	60.6	0.8	22.3	135	-3.9	Y	
GIW-11	05/23/13	11.9	56.6	1.5	30	130	-4.6	Y	
GIW-11	05/24/13	12.9	58.4	1	27.7	135	-4	Y	
GIW-11	05/25/13	13.6	61.1	0.9	24.4	135	-3.5	Y	
GIW-11	05/26/13	13.4	62.7	0.6	23.3	136	-3.3	Y	
GIW-11	05/27/13	15.1	67	0.4	17.5	137	-3	Y	
GIW-11	05/28/13	17.6	68	0.5	13.9	136	-2.1	Y	
GIW-11	05/29/13	14.7	66.3	0.3	18.7	137	-3.1	Y	Vacuum low, working on header
GIW-11	05/30/13	13.4	69.4	0.5	16.7	135	-3.2	Y	
GIW-11	05/31/13	12.5	66.3	0.2	21	136	-3	Y	
GIW-11	06/01/13	14	63.7	0.5	21.8	134	-3.2	Y	
GIW-11	06/02/13	15.3	64.6	0.6	19.5	135	-3	Y	
GIW-11	06/03/13	14.3	65	0.4	20.3	135	-3.1	Y	
GIW-11	06/04/13	14.2	69.6	0.3	15.9	136	-0.9	N	Replaced 1-inch rod seal - pump operating
GIW-11	06/05/13	15.3	70.1	0.4	14.2	135	-2	Y	Working on available vac issue
GIW-11	06/06/13	16	66.5	0.9	16.6	135	-2	Y	Working on available vac issue
GIW-11	06/07/13	14.9	61.4	0.7	23	134	-1.9	Y	Working on available vac issue
GIW-11	06/08/13	13.1	66.6	0.1	20.2	137	-1	Y	Sag main header, jumper installed late 6-8
GIW-11	06/09/13	13.9	62.6	0.7	22.8	142	-2.5	Y	Vacuum restored
GIW-11	06/10/13	14.4	62.3	1.7	21.6	140	-3.6	Y	
GIW-11	06/11/13	16	63.5	0.5	20	141	-4.5	Y	
GIW-11	06/12/13	18.7	63	0.1	18.2	140	-4.8	Y	
GIW-11	06/13/13	15.5	62.5	0.5	21.5	140	-5.2	Y	
GIW-11	06/14/13	15.2	62.1	0.6	22.1	137	-4	Y	
GIW-11	06/15/13	14.1	59.8	1.3	24.8	139	-4.1	Y	
GIW-11	06/16/13	15.8	68.8	0.1	15.3	137	-2.1	Y	
GIW-11	06/17/13	17.7	63.6	0.5	18.2	139	-4.7	Y	
GIW-11	06/18/13	15.5	64	0.6	19.9	139	-4.2	Y	
GIW-11	06/19/13	16.9	63.1	1.6	18.4	140	-4	Y	
GIW-11	06/20/13	14.1	69.6	1.1	15.2	138	-4.1	Y	
GIW-11	06/21/13	16.5	63.5	0.9	19.1	140	-4	Y	
GIW-11	06/22/13	18.1	61.2	1	19.7	141	-4.7	Y	
GIW-11	06/23/13	17.3	55.1	2.3	25.3	139	-4.5	Y	
GIW-11	06/24/13	19.2	60.3	1.7	18.8	139	-3.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-11	06/25/13	17.9	61.1	1.3	19.7	138	-4.1	Y	
GIW-11	06/26/13	19.4	61.3	1.3	18	138	-3.8	Y	
GIW-11	06/27/13	19.4	55	1.6	24	139	-5.4	Y	
GIW-11	06/28/13	21.1	62.9	0.7	15.3	140	-4	Y	
GIW-11	06/29/13	19.3	57.8	1	21.9	139	-4.6	Y	
GIW-11	06/30/13	17.9	64	0.3	17.8	139	-3.9	Y	
GIW-11	07/01/13	17.6	60.4	0.9	21.1	141	-3.9	Y	
GIW-11	07/02/13	19.2	58.5	0.8	21.5	140	-4.5	Y	
GIW-11	07/03/13	22.4	61.8	0.3	15.5	139	-4.1	Y	
GIW-11	07/04/13	25.6	56.7	0.9	16.8	141	-4.2	Y	
GIW-11	07/05/13	25.6	59.9	0.4	14.1	141	-4	Y	
GIW-11	07/06/13	26.7	60	0	13.3	140	-4.1	Y	
GIW-11	07/07/13	29.7	56.7	0	13.6	139	-4	Y	
GIW-11	07/08/13	28.1	58	0.6	13.3	140	-4.1	Y	
GIW-11	07/09/13	29	54.5	0.8	15.7	138	-3.9	Y	
GIW-11	07/10/13	27.6	54	1.3	17.1	138	-4.1	Y	
GIW-11	07/11/13	27.9	54	1.1	17	140	-4	Y	
GIW-11	07/12/13	24.2	54.5	1.6	19.7	139	-4	Y	
GIW-11	07/13/13	31.9	54.9	0	13.2	140	-4.1	Y	
GIW-11	07/14/13	28	57.1	0	14.9	137	-4.1	Y	
GIW-11	07/15/13	26.7	60	0.2	13.1	143	-4.2	Y	
GIW-11	07/17/13	28	60.2	0	11.8	145	-4	Y	Collected 13 minutes after midnight
GIW-11	07/17/13	29	59.1	0.3	11.6	143	-2.8	Y	
GIW-11	07/18/13	22.2	56.9	1.6	19.3	144	-2.9	Y	
GIW-11	07/19/13	22.9	58.1	1.2	17.8	143	-3.2	Y	
GIW-11	07/20/13	24.1	59.4	0.7	15.8	144	-2.8	Y	
GIW-11	07/21/13	26.7	57.9	0.5	14.9	140	-3.3	Y	
GIW-11	07/22/13	26.9	57.9	0.6	14.6	146	-3	Y	
GIW-11	07/23/13	25.8	57.4	0.3	16.5	145	-3	Y	
GIW-11	07/24/13	26.3	58	0.7	15	143	-4.4	Y	
GIW-11	07/25/13	26.8	58.9	0.7	13.6	148	-3.4	Y	
GIW-11	07/26/13	28.1	58.2	0.8	12.9	145	-2.8	Y	
GIW-11	07/27/13	27	57.6	0.2	15.2	146	-2.4	Y	
GIW-11	07/28/13	27.4	58.7	0.3	13.6	146	-2.2	Y	
GIW-11	07/29/13	28.2	56.7	0	15.1	147	-2.3	Y	
GIW-11	07/30/13	26.9	57.6	0	15.5	145	-2.9	Y	
GIW-11	07/31/13	28.3	56.6	0.3	14.8	145	-2.2	Y	
GIW-11	08/01/13	29.3	57.2	0	13.5	145	-2.1	Y	
GIW-11	08/02/13	26.8	58.5	0.1	14.6	145	-2.5	N	Air regulator cleaned - pump operational
GIW-11	08/03/13	28.1	57.5	0.3	14.1	146	-2.5	Y	
GIW-11	08/04/13	27.6	59.2	0.1	13.1	143	-2.3	Y	
GIW-11	08/05/13	26.6	59.3	0.3	13.8	147	-1.8	Y	
GIW-11	08/06/13	24.7	60.2	0.1	15	149	-1.9	Y	
GIW-11	08/07/13	25	58.2	0	16.8	148	-3	Y	
GIW-11	08/08/13	26.1	56.6	0.4	16.9	150	-3.4	Y	
GIW-11	08/09/13	25.9	59.3	0.4	14.4	150	-3.3	Y	
GIW-11	08/10/13	27.1	56.6	0.6	15.7	148	-3.6	Y	
GIW-11	08/11/13	25.5	56.9	0.6	17	149	-3.7	Y	
GIW-11	08/12/13	26.1	57.6	0.6	15.7	151	-3.2	Y	
GIW-11	08/13/13	26.6	56.6	0.5	16.3	149	-3	Y	
GIW-11	08/14/13	25.7	54.4	0.3	19.6	152	-3.7	Y	
GIW-11	08/15/13	26.4	57.1	0.1	16.4	151	-3.7	Y	
GIW-11	08/16/13	26.4	57.8	0	15.8	149	-3.6	Y	
GIW-11	08/17/13	26.7	57.6	0	15.7	151	-3.6	Y	
GIW-11	08/18/13	27.7	58.5	0.1	13.7	151	-3.7	Y	
GIW-11	08/19/13	26	56.3	0.5	17.2	151	-3.6	Y	
GIW-11	08/20/13	26.8	59.3	0	13.9	151	-3.6	Y	
GIW-11	08/21/13	27.5	58.5	0	14	153	-3	Y	
GIW-11	08/22/13	29.3	60.4	0	10.3	154	-3	Y	
GIW-11	08/23/13	27.1	58.8	0	14.1	153	-3	Y	
GIW-11	08/24/13	26	61.3	0.2	12.5	153	-2.4	Y	
GIW-11	08/25/13	25.8	60.1	0.1	14	156	-3.1	Y	
GIW-11	08/26/13	25.4	62.8	0	11.8	153	-3.2	Y	
GIW-11	08/27/13	29.2	61.6	0	9.2	152	-3.5	N	Replaced manifold - pump operational
GIW-11	08/28/13	24.9	59.9	0	15.2	154	-2.5	N	Cleared air line - pump operational
GIW-11	08/29/13	24.9	63.9	0	11.2	155	-3.1	Y	
GIW-11	08/30/13	23.7	62.2	0	14.1	157	-2.5	Y	
GIW-11	08/31/13	24.5	58.7	0.2	16.6	156	-3.7	Y	
GIW-11	09/01/13	23.7	59	0	16.2	154	-3.4	Y	
GIW-11	09/02/13	23.3	63.4	0.1	13.2	153	-3.8	Y	
GIW-11	09/03/13	32	62.6	0	5.4	157	-3.2	N	Replaced 4 way valve - pump operational
GIW-11	09/04/13	22.1	62.2	0	15.7	156	-2.7	Y	
GIW-11	09/05/13	22.4	65	0	12.6	155	-3.6	Y	
GIW-11	09/06/13	19.6	68.1	0	12.3	157	-2.4	Y	
GIW-11	09/07/13	21.8	67.3	0	10.9	157	-3.2	Y	
GIW-11	09/08/13	20.7	66.2	0	13.1	157	-2.9	Y	
GIW-11	09/09/13	19.3	68.2	0	12.5	157	-2.6	Y	
GIW-11	09/10/13	20.3	68.6	0.3	10.8	152	-2.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-11	09/11/13	20.2	69.1	0	10.7	157	-3.1	Y	
GIW-11	09/12/13	20.5	68	0	11.5	156	-3.1	Y	
GIW-11	09/13/13	19	69	0	12	157	-2.3	Y	
GIW-11	09/14/13	22.8	67.8	0.4	9	156	-3.5	Y	
GIW-11	09/15/13	18.7	70.1	0	11.2	154	-3	Y	
GIW-11	09/16/13	18.2	65.5	0	16.3	158	-2.3	Y	
GIW-11	09/17/13	17.2	65.8	0	17	158	-2.3	Y	
GIW-11	09/18/13	15.9	67.3	0	16.8	160	-1.8	Y	
GIW-11	09/19/13	16.2	67.9	0	15.9	160	-1.7	Y	
GIW-11	09/20/13	16	73.8	0	10.2	161	-2.2	Y	
GIW-11	09/21/13	14.9	67.7	0	17.4	161	-2.1	Y	
GIW-11	09/22/13	15.6	71.6	0	12.8	161	-2	Y	
GIW-11	09/23/13	18.1	69.7	0	12.2	159	-2	Y	
GIW-11	09/25/13	14.7	60.9	3	21.4	158	-3.7	Y	
GIW-11	09/26/13	11.5	60.2	3.5	24.8	158	-2.4	N	Replaced pump set up-pump operational
GIW-11	09/27/13	7.3	65.7	1.2	25.8	162	-1.2	Y	
GIW-11	09/28/13	1.3	45.5	4.5	48.7	155	-1.9	Y	Adjusted vac reduced O2 to 0%
GIW-11	09/29/13	5.1	64.7	1.3	28.9	163	-0.7	Y	
GIW-11	09/30/13	4.4	69.6	0	26	167	0.2	Y	Adjustments to vac were made.
GIW-11	10/01/13	4.8	69.8	0	25.4	162	-0.9	Y	
GIW-11	10/02/13	4.7	70.8	0	24.5	167	-0.1	Y	
GIW-11	10/03/13	5.4	63.5	2.9	28.2	162	-1.5	Y	
GIW-11	10/04/13	4.7	69.1	0	26.2	165	-0.2	Y	
GIW-11	10/05/13	5.4	74.3	0	20.3	164	-0.6	Y	
GIW-11	10/06/13	4.8	63.2	3.6	28.4	158	-1.3	Y	Adjusted vac reduced O2 to 0.9%
GIW-11	10/07/13	4.3	73.5	0	22.2	165	0	Y	Adjusted vac to obtain negative pressure
GIW-11	10/08/13	4.1	75.7	0	20.2	167	0.6	Y	Adjusted vac to obtain negative pressure
GIW-11	10/09/13	5	70.7	1.2	23.1	165	-1.1	Y	
GIW-11	10/10/13	5.8	74.3	0	19.9	165	-1.3	Y	
GIW-11	10/11/13	5.2	62.9	3.3	28.6	163	-1.4	Y	
GIW-11	10/12/13	4.2	64.7	2.8	28.3	162	-1.7	Y	
GIW-11	10/13/13	4.4	74.8	0	20.8	155	-0.2	Y	
GIW-11	10/14/13	4.8	70	0	25.2	166	-0.1	Y	
GIW-11	10/15/13	4.8	65.1	1.5	28.6	162	-0.8	Y	
GIW-11	10/16/13	4.2	70.1	0	25.7	164	-0.1	Y	
GIW-11	10/17/13	4.4	69.6	0	26	164	-0.6	Y	
GIW-11	10/18/13	4	71.4	0	24.6	165	-0.1	Y	
GIW-11	10/19/13	4.6	70.8	1.1	23.5	164	-1.2	Y	
GIW-11	10/20/13	4.4	67.4	0.9	27.3	165	-1	Y	
GIW-11	10/21/13	3.9	59.5	4.5	32.1	161	-2	Y	
GIW-11	10/22/13	4.7	81.7	0	13.6	165	-0.6	Y	
GIW-11	10/23/13	4.3	75.1	1.5	19.1	162	-1	Y	
GIW-11	10/24/13	4.3	63.9	2.3	29.5	160	-1.2	Y	
GIW-11	10/25/13	4.2	60.2	3	32.6	161	-1	Y	
GIW-11	10/28/13	4.3	69.2	0	26.5	163	-0.5	N	Replace air box - pump operational
GIW-11	10/29/13	4.1	70.1	0.1	25.7	164	-0.7	Y	
GIW-11	10/30/13	3.7	71	0	25.3	165	-0.5	N	Repalced air box - pump operational
GIW-11	10/31/13	3.8	65.6	2	28.6	161	-1.2	Y	
GIW-11	11/01/13	3.6	63.4	2.6	30.4	159	-1.2	Y	
GIW-11	11/04/13	3.8	70.5	0	25.7	165	-0.8	Y	
GIW-11	11/05/13	6.3	70.8	0.1	22.8	162	-1	Y	
GIW-11	11/06/13	3.7	68.1	1	27.2	163	-0.9	Y	
GIW-11	11/07/13	3.8	70.3	0	25.9	165	-0.8	Y	
GIW-11	11/08/13	3.7	72.4	0	23.9	165	-0.8	Y	
GIW-11	11/11/13	3.5	69.1	0.4	27	164	-0.8	Y	
GIW-11	11/12/13	3.1	68.7	2.1	26.1	162	-0.8	N	Fiberglass rod broke, will be replaced
GIW-11	11/13/13	3.4	70.6	1	25	163	-0.7	N	Fiberglass rod broke, will be replaced
GIW-11	11/14/13	3.1	75.5	0	21.4	165	-0.7	N	Fiberglass rod broke, will be replaced
GIW-11	11/15/13	3.3	71.9	0	24.8	166	-0.7	N	Fiberglass rod broke, will be replaced
GIW-11	11/18/13	3.7	68.7	1.8	25.8	165	-1.1	N	Fiberglass rod broke, will be replaced
GIW-11	11/19/13	3.7	73.9	0	22.4	166	-0.7	N	Fiberglass rod broke, will be replaced
GIW-11	11/20/13	3.3	70	0	26.7	165	-0.8	N	Fiberglass rod broke, will be replaced
GIW-11	11/21/13	3.2	74.3	0.1	22.4	166	-0.7	N	Fiberglass rod broke, will be replaced
GIW-11	11/22/13	3.2	75.7	0	21.1	166	-0.8	N	Fiberglass rod broke, will be replaced
GIW-11	11/25/13	2.8	76.2	0.5	20.5	166	-1.6	N	Fiberglass rod broke, will be replaced
GIW-11	11/26/13	3.2	72.8	0.1	23.9	167	-1.4	N	Replaced fiberglass rod-pump operational
GIW-11	11/27/13	4.1	73.9	0	22	166	-1.4	Y	
GIW-11	11/28/13	3.7	68.2	0	28.1	172	-1.4	Y	
GIW-11	11/29/13	3.4	69.8	1.8	25	168	-1.7	Y	
GIW-11	12/02/13	3.2	62.3	2.1	32.4	169	-2.2	Y	
GIW-11	12/03/13	5.1	69	0	25.9	172	-0.9	Y	
GIW-11	12/04/13	4.5	68.1	0.2	27.2	170	-1.5	Y	
GIW-11	12/05/13	5.2	58.9	3	32.9	165	-2.5	N	Replaced 1" rod seal- pump operational
GIW-11	12/09/13	2.5	69.3	0	28.2	173	-0.7	Y	
GIW-11	12/10/13	3.4	69.6	0	27	170	-0.5	Y	
GIW-11	12/11/13	3.3	69	0	27.7	173	-0.6	Y	
GIW-11	12/12/13	3.5	67.8	0	28.7	176	-0.5	Y	
GIW-11	12/13/13	3.5	69.2	0	27.3	173	-1	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-11	12/16/13	5	52.7	4.8	37.5	167	-2.3	Y	
GIW-11	12/17/13	5.3	69.3	0	25.4	175	-0.2	Y	Increased vac to -0.7
GIW-11	12/18/13	3.8	59.3	2.1	34.8	174	-0.9	Y	Decreased vac to -0.5
GIW-11	12/19/13	3.5	67.6	0	28.9	174	-0.4	Y	Increased vac to -0.6
GIW-11	12/20/13	3.9	65.8	0	30.3	174	-0.6	Y	Increased vac to -0.9
GIW-11	12/23/13	3.3	65.1	0	31.6	180	-0.3	Y	Increased vac to -0.7
GIW-11	12/24/13	2.7	69	0	28.3	179	-0.9	Y	Increased vac to -1.2
GIW-11	12/25/13	2.7	75.1	0	22.2	176	-0.8	Y	
GIW-11	12/26/13	2.8	67.9	0	29.3	176	-0.8	Y	Increased vac to -1.2 inches
GIW-11	12/27/13	2.7	67.4	0	29.9	176	-0.3	Y	Increased vac to -0.5 inches
GIW-11	12/30/13	2.9	64.3	1.5	31.3	175	-3.8	Y	
GIW-11	12/31/13	2.7	59.5	2.9	34.9	172	-4.2	N	Reduced vac to -3.0 inches (replaced rod - pump operational)
GIW-11	01/01/14	2.8	66.1	0.9	30.2	173	-2.5	NA	
GIW-11	01/03/14	2.5	70	0	27.5	178	-1.7	Y	Increased vac to -1.9 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-12	04/08/13	7.4	68.4	0.9	23.3	80	-0.5	N	
GIW-12	04/09/13	6.5	66.2	0	27.3	80	-0.4	Y	
GIW-12	04/10/13	6.6	65	0.8	27.6	85	-0.1	Y	
GIW-12	04/11/13	3.4	40.1	8.9	47.6	50	-0.6	Y	
GIW-12	04/12/13	5.3	59.5	2.4	32.8	40	-0.6	Y	
GIW-12	04/13/13	4.8	59.1	2.3	33.8	52	-0.5	Y	
GIW-12	04/14/13	5.2	59.5	1.9	33.4	72	-0.5	Y	
GIW-12	04/15/13	3.7	39.5	8.4	48.4	68	-0.3	Y	
GIW-12	04/16/13	6.1	62.4	0.9	30.6	44	-1.1	Y	
GIW-12	04/17/13	7.3	62.4	0.9	29.4	60	-0.9	Y	
GIW-12	04/18/13	6.3	69.6	0.5	23.6	60	-0.7	Y	
GIW-12	04/19/13	5.9	62.9	1.7	29.5	40	-1.3	Y	
GIW-12	04/20/13	7	61.7	0.3	31	52	-1.6	Y	
GIW-12	04/21/13	7.9	59.7	0.6	31.8	52	-1.4	Y	
GIW-12	04/22/13	8	63.6	0.3	28.1	68	-1.1	Y	
GIW-12	04/23/13	7.6	61.7	0.9	29.8	58	-1.5	Y	
GIW-12	04/24/13	8.4	62.4	0.1	29.1	100	-3.1	Y	
GIW-12	04/25/13	14.9	46.4	0.6	38.1	120	-4.3	Y	
GIW-12	04/26/13	13.9	50.7	0.6	34.8	136	-4	Y	
GIW-12	04/27/13	14.4	44.1	3	38.5	130	-5	Y	
GIW-12	04/28/13	10.8	46.7	4.9	37.6	110	-5	Y	
GIW-12	04/29/13	11.7	42.7	4.8	40.8	125	-5.1	Y	
GIW-12	04/30/13	7.3	34.6	6.6	51.5	120	-3.1	Y	
GIW-12	05/01/13	7.4	34	6.2	52.4	128	-3.7	Y	
GIW-12	05/02/13	9	32.1	8.6	50.3	120	-4.8	Y	
GIW-12	05/03/13	7.9	33.5	8.6	50	95	-5	Y	
GIW-12	05/04/13	4.3	26.2	11.8	57.7	115	-3.3	Y	
GIW-12	05/05/13	5	68	0.2	26.8	95	-1.5	Y	Begin using fluke temp meter
GIW-12	05/06/13	5	61.3	1.9	31.8	60	-2	Y	
GIW-12	05/07/13	5.5	66.4	0.2	27.9	68	-1.4	Y	
GIW-12	05/08/13	4.9	63.7	0.6	30.8	72	-1.5	Y	
GIW-12	05/09/13	5.4	66.9	0.7	27	73	-0.5	Y	
GIW-12	05/10/13	5.7	67.5	0.3	26.5	69	-0.8	Y	
GIW-12	05/11/13	6.4	68.1	0.5	25	73	-0.8	Y	
GIW-12	05/12/13	6.4	68.1	0.5	25	61	-0.5	Y	
GIW-12	05/13/13	10.2	60.1	2.4	27.3	77	-0.7	Y	Pulled pump and replaced seals
GIW-12	05/14/13	5.8	68.8	0	25.4	95	-0.5	Y	
GIW-12	05/15/13	5.9	68.8	0	25.3	115	-0.5	Y	Installed check valve
GIW-12	05/16/13	6	67.9	0.2	25.9	115	-0.5	Y	
GIW-12	05/17/13	4.9	65.3	0.9	28.9	118	-1.1	Y	
GIW-12	05/18/13	5.9	67	0.4	26.7	117	-1.3	Y	
GIW-12	05/19/13	6.9	61.3	2	29.8	121	-1.5	Y	
GIW-12	05/20/13	11.5	67.5	0.6	20.4	122	-1.5	Y	
GIW-12	05/21/13	6.9	59.5	1.7	31.9	128	-1.8	Y	
GIW-12	05/22/13	5.4	61.8	1.6	31.2	110	-1.9	Y	
GIW-12	05/23/13	5.4	64.3	0.3	30	115	-1.9	Y	
GIW-12	05/24/13	5.6	66	0.7	27.7	117	-2	Y	
GIW-12	05/25/13	5.1	66.9	0.3	27.7	124	-1.6	Y	
GIW-12	05/26/13	6.3	68.1	0.8	24.8	129	-2.2	Y	
GIW-12	05/27/13	5	64.8	0.2	30	128	-1.8	Y	
GIW-12	05/28/13	6.6	66.6	0.3	26.5	122	-1.4	Y	
GIW-12	05/29/13	5	65.9	1.4	27.7	128	-1.9	Y	
GIW-12	05/30/13	5.6	64.1	0.6	29.7	130	-1.9	Y	
GIW-12	05/31/13	4.5	64.1	1.4	30	118	-1.8	Y	
GIW-12	06/01/13	4.7	66.5	0.3	28.5	0	-1.6	Y	6-1 Temp error - data removed
GIW-12	06/02/13	8.1	70.5	0.2	21.2	72	-1.2	Y	
GIW-12	06/03/13	6.8	68.3	0	24.9	86	-1.4	Y	Working on available vac issue
GIW-12	06/04/13	6.3	69.8	0.3	23.6	96	-0.8	N	Replaced 1-inch rod seal - pump operating
GIW-12	06/05/13	7.2	69	0.6	23.2	99	-1.1	Y	Working on available vac issue
GIW-12	06/06/13	5.4	68.7	0.7	25.2	101	-1.9	Y	Working on available vac issue
GIW-12	06/07/13	4.8	53.4	0.7	41.1	100	-1.3	Y	Working on available vac issue
GIW-12	06/08/13	5.8	66.3	0	27.9	103	-0.7	Y	Sag main header, jumper installed late 6-8
GIW-12	06/09/13	5.5	63.9	0.9	29.7	105	-1.3	Y	Vacuum restored
GIW-12	06/10/13	5.3	61.5	1.9	31.3	104	-2.3	Y	
GIW-12	06/11/13	4.7	64.8	1.6	28.9	105	-2	Y	
GIW-12	06/12/13	5.4	64.5	0.8	29.3	107	-2.1	N	Replaced 1-inch rod seal - pump operating
GIW-12	06/13/13	7.4	69.6	0.1	22.9	106	-2	Y	
GIW-12	06/14/13	6.5	68.6	0.3	24.6	105	-2.5	Y	Replaced air box
GIW-12	06/15/13	5.8	66	0.7	27.5	107	-2.3	Y	
GIW-12	06/16/13	5.9	67	0	27.1	108	-1.5	Y	
GIW-12	06/17/13	4.6	66.3	0.3	28.8	107	-2.6	Y	
GIW-12	06/18/13	4.4	67	0.3	28.3	110	-2.6	Y	
GIW-12	06/19/13	5.7	66.2	0.6	27.5	110	-2.5	Y	
GIW-12	06/20/13	3.6	74.2	0.5	21.7	112	-2.6	Y	Damaged pump seal, replaced pump

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-12	06/21/13	4.4	67.7	0.2	27.7	110	-2.7	Y	
GIW-12	06/22/13	3.8	67	0.5	28.7	108	-2.9	Y	
GIW-12	06/23/13	4.6	66.3	0.1	29	112	-3	Y	
GIW-12	06/24/13	5.4	70.9	0.1	23.6	113	-2.8	Y	
GIW-12	06/25/13	4.7	70.2	0	25.1	112	-3	Y	
GIW-12	06/26/13	4.8	68.3	0.7	26.2	110	-3.2	Y	
GIW-12	06/27/13	7.7	59.5	1.6	31.2	114	-3.1	Y	
GIW-12	06/28/13	5.2	68.1	0.5	26.2	114	-3	Y	
GIW-12	06/29/13	4.7	65.5	0.4	29.4	114	-2.9	Y	
GIW-12	06/30/13	4.3	68.3	0.4	27	113	-2.9	Y	
GIW-12	07/01/13	4.4	67.4	0.5	27.7	115	-2.8	Y	
GIW-12	07/02/13	5.1	67	0.7	27.2	114	-3	Y	
GIW-12	07/03/13	5.5	69	0.2	25.3	116	-2.9	Y	
GIW-12	07/04/13	7.9	61.1	1.9	29.1	118	-3.1	Y	
GIW-12	07/05/13	5.3	67.7	0.5	26.5	118	-2.6	Y	
GIW-12	07/06/13	4.7	69.1	0	26.2	119	-2.7	Y	
GIW-12	07/07/13	3.3	60	1.2	35.5	114	-2.7	Y	
GIW-12	07/08/13	5.1	69.8	0.5	24.6	112	-2.5	Y	
GIW-12	07/09/13	4.4	66.9	0.5	28.2	115	-2.7	Y	
GIW-12	07/10/13	4.2	68.3	0.7	26.8	112	-2.4	Y	
GIW-12	07/11/13	4.5	65.6	0.4	29.5	110	-2.6	Y	
GIW-12	07/12/13	4	68.5	0.4	27.1	110	-2.9	Y	
GIW-12	07/13/13	9	60.9	0.8	29.3	120	-4	Y	
GIW-12	07/14/13	14	63.1	0.8	22.1	116	-4.1	Y	
GIW-12	07/15/13	4.5	69.3	0	26.2	112	-4.2	Y	
GIW-12	07/17/13	14	44.3	6.3	35.4	149	-1.5	Y	Coll. 20 mins after midnight
GIW-12	07/17/13	6.3	72	0.2	21.5	146	-0.1	Y	
GIW-12	07/18/13	11.9	60.4	1.9	25.8	146	-0.5	Y	
GIW-12	07/19/13	5.5	68.3	0.4	25.8	140	-0.4	Y	
GIW-12	07/20/13	11.5	61.2	1.5	25.8	142	-0.6	Y	
GIW-12	07/21/13	5.5	68.2	0	26.3	145	-0.7	Y	
GIW-12	07/22/13	14.2	45.4	6.5	33.9	147	-2.1	Y	
GIW-12	07/23/13	8.1	61.3	1.5	29.1	146	-0.7	Y	
GIW-12	07/24/13	7.2	62.1	1.6	29.1	143	-0.9	N	Replaced 1" rod seal - pump operational
GIW-12	07/25/13	5.5	68.2	0.4	25.9	146	-0.1	Y	
GIW-12	07/26/13	5.7	62.3	2.2	29.8	144	-0.1	Y	
GIW-12	07/27/13	9.1	60.6	1.8	28.5	142	-0.8	Y	
GIW-12	07/28/13	6.7	65.5	0.2	27.6	143	-0.7	Y	
GIW-12	07/29/13	9.5	67.7	0.9	21.9	141	-0.6	Y	
GIW-12	07/30/13	14.9	50.6	4	30.5	142	-1.9	Y	adjustment made, reduced O2 to 0.5%
GIW-12	07/31/13	14.7	48.9	4.7	31.7	140	-1.2	Y	adjustment made, reduced O2 to 1.8%
GIW-12	08/01/13	10.4	69.1	0	20.5	145	-0.1	Y	
GIW-12	08/02/13	8	65.2	1.2	25.6	140	-0.2	Y	
GIW-12	08/03/13	7.9	63.8	1.5	26.8	140	-0.6	Y	
GIW-12	08/04/13	6.7	73	0	20.3	141	-0.5	Y	
GIW-12	08/05/13	8.4	64.1	1.7	25.8	146	-1.1	Y	
GIW-12	08/06/13	8.6	63.2	1.6	26.6	149	-0.8	Y	
GIW-12	08/07/13	6.9	69.7	0	23.4	147	-1.3	Y	
GIW-12	08/08/13	8.2	62.9	1.3	27.6	142	-0.7	Y	
GIW-12	08/09/13	8.3	67.9	0.3	23.5	151	-0.5	Y	
GIW-12	08/10/13	7.4	64.5	1.2	26.9	150	-1	Y	
GIW-12	08/11/13	6.3	66.9	0.5	26.3	147	-0.9	Y	
GIW-12	08/12/13	9	68.3	0.6	22.1	147	-0.4	Y	
GIW-12	08/13/13	13.4	48.2	6	32.4	144	-1	Y	adjustment made, reduced O2 to 1.8%
GIW-12	08/14/13	10.6	65.9	0.1	23.4	142	-0.5	Y	
GIW-12	08/15/13	11.9	55.3	3.9	28.9	148	-1.5	Y	adjustment made, reduced O2 to 1.8%
GIW-12	08/16/13	7.6	68.9	0.5	23	150	-2.1	Y	
GIW-12	08/17/13	14.1	46.6	4.3	33	144	-2.7	Y	adjustment made, reduced O2 to 1.7%
GIW-12	08/18/13	13.2	66.9	1	18.9	143	-0.5	Y	
GIW-12	08/19/13	8.1	64.6	1.8	25.4	146	-1.1	Y	
GIW-12	08/20/13	8.5	68	0	23.5	145	-0.2	Y	
GIW-12	08/21/13	11.4	65.2	1.5	21.9	143	-0.4	Y	
GIW-12	08/22/13	10.2	69.1	0	20.7	149	-0.2	Y	
GIW-12	08/23/13	7.1	64.5	1.8	26.6	143	-1	Y	
GIW-12	08/24/13	4.4	71	0	24.6	141	-0.3	Y	
GIW-12	08/25/13	7.8	71.7	0.2	20.3	147	-0.5	Y	
GIW-12	08/26/13	9.1	65.1	1.8	24	147	-0.6	Y	
GIW-12	08/27/13	14.1	64.3	1.9	19.7	147	-0.5	Y	
GIW-12	08/28/13	5.7	70.4	0	23.9	144	-0.1	Y	
GIW-12	08/29/13	9	64.5	1.7	24.8	145	-1.1	Y	
GIW-12	08/30/13	5.8	72.4	0	21.8	150	-0.2	Y	
GIW-12	08/31/13	8.4	61.9	1.8	27.9	146	-1.2	Y	
GIW-12	09/01/13	5.1	62	0.3	27.1	142	-0.7	N	Replaced pump - pump operational
GIW-12	09/02/13	5.7	65.4	1.8	27.1	141	-1.4	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-12	09/03/13	10.7	71.4	0	17.9	150	-0.5	Y	
GIW-12	09/04/13	5.1	73.8	0	21.1	146	-1	Y	
GIW-12	09/05/13	6	63.3	2.3	28.4	143	-0.5	Y	
GIW-12	09/06/13	6.1	80.9	0	13	144	-0.2	N	Replaced 4 way valve- pump operational
GIW-12	09/07/13	6.2	67.9	1.8	24.1	140	-0.5	Y	
GIW-12	09/08/13	6.9	79.5	0	13.6	141	-0.4	Y	
GIW-12	09/09/13	7.9	67.1	1.7	23.3	144	-1.2	N	Replaced 4 way valve- pump operational
GIW-12	09/10/13	4.7	79.6	0.1	15.6	141	-0.1	Y	
GIW-12	09/11/13	4.9	80.8	0	14.3	138	0	N	Replaced 4 way manifold-pump operational
GIW-12	09/12/13	6.4	66.9	2.5	24.2	149	-1.5	Y	Adjusted vac, reduced O2 to 1.4%
GIW-12	09/13/13	4.2	77.4	0	18.4	141	0	Y	
GIW-12	09/14/13	8.5	70.2	1.6	19.7	146	-0.8	Y	
GIW-12	09/15/13	3.5	79.6	0	16.9	143	-0.6	N	Replaced 4 way valve-pump operational
GIW-12	09/16/13	11.3	56.3	4	28.4	141	-0.5	Y	
GIW-12	09/17/13	7	66	1.5	25.5	148	-1.1	Y	
GIW-12	09/18/13	10.9	61.7	2.5	24.9	148	-0.3	Y	
GIW-12	09/19/13	12.4	63.5	2.2	21.9	145	-0.2	Y	Replaced 4 way valve- pump operational
GIW-12	09/20/13	9.7	80.7	0	9.6	145	0	Y	
GIW-12	09/21/13	8.3	74.2	0	17.5	150	-0.1	Y	
GIW-12	09/22/13	10.5	72.8	1.4	15.3	147	-0.1	Y	
GIW-12	09/23/13	14.3	66.2	3.1	16.4	140	-0.3	Y	Adjusted vac reduced O2 to 1.9%
GIW-12	09/25/13	5.3	83.9	0	10.8	141	-0.5	Y	
GIW-12	09/26/13	8.3	77.1	0.6	14	145	-0.2	N	Replaced pump set up-pump operational
GIW-12	09/27/13	5.1	69.2	0	25.7	152	-0.1	Y	
GIW-12	09/28/13	9.3	66.8	1.1	22.8	143	-0.8	Y	
GIW-12	09/29/13	8	73	0	19	152	-0.2	Y	
GIW-12	09/30/13	8.1	73.1	0	18.8	146	-0.1	Y	
GIW-12	10/01/13	9.9	72.3	0.3	17.5	146	-1.1	Y	
GIW-12	10/02/13	9.2	73.2	0	17.6	153	-0.1	Y	
GIW-12	10/03/13	11.2	70.2	1.8	16.8	146	-1.8	Y	
GIW-12	10/04/13	9.7	73.2	0	17.1	151	-0.1	N	Replaced 4 way valve - pump operational
GIW-12	10/05/13	11.3	78.6	0	10.1	148	-0.3	N	Replaced 4 way valve - pump operational
GIW-12	10/06/13	10.2	73.4	1.6	14.8	145	-1.9	Y	
GIW-12	10/07/13	11.6	74.9	1.2	12.3	143	-1.6	Y	
GIW-12	10/08/13	12.3	81.8	0	5.9	143	-1.2	Y	
GIW-12	10/09/13	11.5	77	1	10.5	147	-1	Y	
GIW-12	10/10/13	12.3	70.1	2.4	15.2	145	-2.9	Y	
GIW-12	10/11/13	10.3	73.8	1.4	14.5	146	-1.5	Y	
GIW-12	10/12/13	10.8	68	3.3	17.9	141	-1	Y	
GIW-12	10/13/13	9.6	79.3	0.5	10.6	135	-0.3	Y	
GIW-12	10/14/13	10.1	77.1	0	12.8	139	-0.1	Y	
GIW-12	10/15/13	11	65.8	3.1	20.1	137	-0.8	Y	
GIW-12	10/16/13	5.7	70.8	0	23.5	138	0.1	Y	
GIW-12	10/17/13	10.4	72.9	1	15.7	147	-1.4	Y	
GIW-12	10/18/13	6.7	72	0	21.3	136	-0.5	Y	
GIW-12	10/19/13	7.7	82.4	0	9.9	137	-1	Y	
GIW-12	10/20/13	9	78	0	13	147	-0.2	Y	
GIW-12	10/21/13	8.9	76.3	1.6	13.2	142	-1.2	N	Replaced 4 way valve - pump operational
GIW-12	10/22/13	7.2	90.5	0	2.3	140	-0.9	Y	
GIW-12	10/23/13	6.6	89.4	0	4	144	-0.9	Y	
GIW-12	10/24/13	6.9	77.2	0	15.9	134	-0.8	Y	
GIW-12	10/25/13	7.7	77.7	0	14.6	138	-1	N	New air box - pump operational
GIW-12	10/28/13	6.1	75.3	0	18.6	144	-0.9	Y	
GIW-12	10/29/13	5.8	76.3	0	17.9	144	-1	Y	
GIW-12	10/30/13	11.4	73.5	1.1	14	154	-2.8	Y	
GIW-12	10/31/13	12.5	67.9	2.5	17.1	145	-3.1	Y	
GIW-12	11/01/13	11.6	71.7	1.8	14.9	142	-2.1	Y	
GIW-12	11/04/13	11.5	69.2	2	17.3	142	-1.5	Y	
GIW-12	11/05/13	14	70.3	2.1	13.6	142	-1	Y	
GIW-12	11/06/13	9.8	77.8	0	12.4	133	-0.1	Y	
GIW-12	11/07/13	9.2	75.5	0	15.3	142	-1.1	Y	
GIW-12	11/08/13	8.8	78.8	0	12.4	138	-1	Y	
GIW-12	11/11/13	8.9	77.2	0	13.9	140	-1.2	Y	
GIW-12	11/12/13	8.1	80.7	0.1	11.1	144	-1.1	Y	
GIW-12	11/13/13	8.4	79.8	0	11.8	141	-1.3	Y	
GIW-12	11/14/13	8.5	81.8	0	9.7	143	-1.2	Y	
GIW-12	11/15/13	8.5	77.3	0	14.2	143	-1.6	Y	
GIW-12	11/18/13	9.3	81.1	0	9.6	144	-1.2	Y	
GIW-12	11/19/13	9.1	80.9	0	10	143	-1.7	N	Replaced 4 way valve, pump operational
GIW-12	11/20/13	7.1	75.9	0	17	144	0	Y	Adjusted vac to -1.3 inches
GIW-12	11/21/13	6.3	80.6	0.1	13	142	-0.6	Y	
GIW-12	11/22/13	13.3	68.3	3.1	15.3	144	-5.3	Y	
GIW-12	11/25/13	8.4	84.8	0	6.8	145	-1	Y	
GIW-12	11/26/13	11	70.3	2.7	16	145	-1.7	N	Replaced blackhawk pump-pump operational

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-12	11/27/13	9.9	73.5	2	14.6	143	-1.3	Y	
GIW-12	11/28/13	7.7	68.1	1.8	22.4	149	-0.8	Y	
GIW-12	11/29/13	5.6	80.3	0	14.1	125	-0.5	Y	
GIW-12	12/02/13	8.3	75.7	0	16	148	-0.2	Y	
GIW-12	12/03/13	7.6	75.5	0	16.9	152	-0.2	Y	
GIW-12	12/04/13	7.6	75.2	0	17.2	151	-1.3	Y	
GIW-12	12/05/13	7.9	71.2	1.2	19.7	142	-1.3	Y	
GIW-12	12/09/13	7	75.2	0	17.8	151	-0.1	Y	
GIW-12	12/10/13	7.2	70.6	1.1	21.1	145	-0.6	Y	
GIW-12	12/11/13	6.7	73.9	0	19.4	153	-0.1	Y	
GIW-12	12/12/13	8.4	73.4	0	18.2	157	-0.2	Y	
GIW-12	12/13/13	9	74.7	0	16.3	150	-0.5	Y	
GIW-12	12/16/13	9.6	64.1	3.3	23	150	-1.1	Y	
GIW-12	12/17/13	9.3	76.9	0	13.8	148	-0.2	Y	Increased vac to -0.6
GIW-12	12/18/13	9.2	64.6	1.9	24.3	148	-0.2	Y	
GIW-12	12/19/13	8.7	70.7	0.1	20.5	149	-0.3	Y	Increased vac to -0.5
GIW-12	12/20/13	9.3	66.6	1.6	22.5	149	-0.5	Y	
GIW-12	12/23/13	9.2	68.6	1.1	21.1	156	-0.7	Y	
GIW-12	12/24/13	9.2	70.4	0.8	19.6	152	-0.4	Y	Increased vac to -0.6 inches
GIW-12	12/25/13	8.8	73.7	1.8	15.7	152	-0.5	Y	
GIW-12	12/26/13	9.1	67.3	1.6	22	151	-0.4	Y	
GIW-12	12/27/13	9.3	72.4	0	18.3	151	-0.2	Y	Increased vac to -0.3 inches
GIW-12	12/30/13	8.6	59.7	4.5	27.2	152	-1.3	Y	Reduced vac to -0.1 inches (3.5% Oxygen)
GIW-12	12/31/13	7.2	72.4	0	20.4	157	-0.3	Y	Increased vac to -0.4 inches
GIW-12	01/01/14	7.2	74.5	0	18.3	155	0	NA	Increased vac to -0.3 inches
GIW-12	01/03/14	6.5	71.5	0	22	153	-0.2	Y	Increased vac to -0.3 inches

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-13	04/08/13	0.4	1.2	17.9	80.5	82	-0.7	N	
GIW-13	04/09/13	0.1	0.6	19.5	79.8	80	-1	Y	
GIW-13	04/10/13	0.1	0.9	16.6	82.4	88	-0.3	Y	
GIW-13	04/11/13	2.4	10	17.1	70.5	50	-1.4	Y	
GIW-13	04/12/13	0.2	3	20.4	76.4	45	-1.6	Y	
GIW-13	04/13/13	3	12	17.6	67.4	60	-1.5	Y	
GIW-13	04/14/13	1.2	4.2	18.4	76.2	80	-1.4	Y	
GIW-13	04/15/13	2.5	7.3	17.6	72.6	68	-1	Y	
GIW-13	04/16/13	18.9	65.2	0.4	15.5	50	-1.8	Y	
GIW-13	04/17/13	4.9	13.4	15	66.7	70	-1.9	Y	
GIW-13	04/18/13	16.3	63.5	0.3	19.9	68	-1.8	Y	
GIW-13	04/19/13	13.1	50.8	2.1	34	42	-2.5	Y	Pump working, no liquid, dry
GIW-13	04/20/13	11.7	50.6	2.1	35.6	70	-2.9	Y	Pump working, no liquid, dry
GIW-13	04/21/13	13.8	53.2	1.9	31.1	60	-2.5	Y	
GIW-13	04/22/13	11.9	61	0.9	26.2	72	-1.9	Y	Pump working, no liquid, dry
GIW-13	04/23/13	11.4	56	2	30.6	62	-2.8	Y	
GIW-13	04/24/13	16.6	42.5	2.3	38.6	110	-5.2	Y	Pump working, no liquid, dry
GIW-13	04/25/13	11.6	54.3	1.9	32.2	80	-4	Y	
GIW-13	04/26/13	11	55.1	2.7	31.2	75	-5	Y	Pump working, no liquid, dry
GIW-13	04/27/13	17.8	42.3	4.9	35	110	-5.5	Y	Pump working, no liquid, dry
GIW-13	04/28/13	12.8	54.3	3	29.9	105	-5	Y	Pump working, no liquid, dry
GIW-13	04/29/13	12	63.6	0.5	23.9	80	-3.9	Y	Pump working, no liquid, dry
GIW-13	04/30/13	9.6	60	1.7	28.7	95	-4.1	Y	Pump working, no liquid, dry
GIW-13	05/01/13	13.7	47.2	3.4	35.7	122	-5.1	Y	Pump working, no liquid, dry
GIW-13	05/02/13	15.9	44.5	3.8	35.8	130	-4.8	Y	Pump working, no liquid, dry
GIW-13	05/03/13	9.7	65.5	0.6	24.2	70	-4.1	Y	Pump working, no liquid, dry
GIW-13	05/04/13	9.6	58.4	1.8	30.2	70	-4.1	Y	Pump working, no liquid, dry
GIW-13	05/05/13	14.6	52.5	1.4	31.5	110	-4.1	Y	Begin using fluke temp meter
GIW-13	05/06/13	11.2	51.3	1.9	35.6	111	-4	Y	Pump working, no liquid, dry
GIW-13	05/07/13	10.6	51.6	2.2	35.6	120	-4.1	Y	Pump working, no liquid, dry
GIW-13	05/08/13	9.4	50.9	2	37.7	129	-4.7	Y	Pump working, no liquid, dry
GIW-13	05/09/13	11.1	54.5	2	32.4	111	-2.9	Y	Pump working, no liquid, dry
GIW-13	05/10/13	12.6	48.9	2.9	35.6	115	-4.1	Y	
GIW-13	05/11/13	11.8	57.8	2.4	28	77	-1.4	Y	
GIW-13	05/12/13	13.1	66	1	19.9	68	-1.4	N	Pump not working, repairs being made
GIW-13	05/13/13	19.2	63.7	0.8	16.3	73	-1.4	Y	Pulled pump and replaced HDPE tube
GIW-13	05/14/13	11.2	62.2	1.7	24.9	96	-1.2	Y	Replaced fibergalls rod and rod seal.
GIW-13	05/15/13	9.2	68.4	0	22.4	100	-1.3	Y	Installed check valve
GIW-13	05/16/13	9.3	62.5	1.3	26.9	133	-1.8	Y	
GIW-13	05/17/13	9.2	64.9	1.3	24.6	137	-1.9	Y	
GIW-13	05/18/13	9.8	61.1	1.3	27.8	138	-2.3	Y	
GIW-13	05/19/13	14.2	63.6	1.3	20.9	134	-2	Y	
GIW-13	05/20/13	14.5	58.9	1.4	25.2	131	-3.8	Y	
GIW-13	05/21/13	19.5	59.7	0.8	20	138	-3.9	Y	
GIW-13	05/22/13	16.6	60.7	0.8	21.9	140	-3.3	Y	Replaced 1-inch rod seal
GIW-13	05/23/13	13.8	57.9	1.2	27.1	138	-4.4	Y	
GIW-13	05/24/13	13	61.8	1.4	23.8	140	-3.5	Y	
GIW-13	05/25/13	14.5	63.5	0.6	21.4	143	-3.6	Y	
GIW-13	05/26/13	9.6	53.6	2	34.8	141	-3.7	Y	
GIW-13	05/27/13	11.5	53.8	1	33.7	138	-3	N	Removed and cleaned air box - operating
GIW-13	05/28/13	14.7	60.4	0.6	24.3	132	-2.7	Y	
GIW-13	05/29/13	10.8	52.7	1.3	35.2	136	-3	N	Removed and cleaned air box - operating
GIW-13	05/30/13	11.4	57.9	1.3	29.4	132	-3.8	Y	
GIW-13	05/31/13	10	53.4	1.5	35.1	136	-3.5	Y	
GIW-13	06/01/13	7.3	51.5	1.6	39.6	130	-3.2	Y	
GIW-13	06/02/13	6.4	58.5	1.1	34	136	-3.1	N	Replaced 4-way valve - pump operational
GIW-13	06/03/13	7.9	54.2	1.4	36.5	138	-2.6	Y	Working on available vac issue
GIW-13	06/04/13	10.3	63.4	0.2	26.1	138	-1	Y	Working on available vac issue
GIW-13	06/05/13	14.4	63.6	0.5	21.5	138	-2	Y	Working on available vac issue
GIW-13	06/06/13	9.6	59.8	1.2	29.4	140	-1.6	Y	Working on available vac issue
GIW-13	06/07/13	9.6	54.3	1.4	34.7	135	-2.1	Y	Working on available vac issue
GIW-13	06/08/13	8.9	61.1	0.4	29.6	138	-0.9	Y	Sag main header, jumper installed late 6-8
GIW-13	06/09/13	8.8	51.9	1.5	37.8	143	-2.2	Y	Vacuum restored
GIW-13	06/10/13	10.3	44	2.4	43.3	138	-5.2	Y	
GIW-13	06/11/13	11	52.7	1.1	35.2	138	-4	Y	
GIW-13	06/12/13	12.9	48	1	38.1	139	-4.3	N	Replaced 1-inch rod seal - pump operating
GIW-13	06/13/13	9.4	49.8	2.1	38.7	138	-4	Y	
GIW-13	06/14/13	9	50.1	1.1	39.8	140	-4.1	Y	Replaced air box
GIW-13	06/15/13	8.2	52.2	1.9	37.7	137	-4.4	Y	
GIW-13	06/16/13	13.9	65.1	0.6	20.4	140	-2.1	Y	
GIW-13	06/17/13	14.8	50.4	1.7	33.1	140	-4.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-13	06/18/13	14.4	51.2	1.6	32.8	142	-4.1	N	Clogged air line, cleaned, operational
GIW-13	06/19/13	17.9	51.4	1.7	29	140	-4.1	Y	
GIW-13	06/20/13	14.1	55.2	1.9	28.8	142	-4	Y	
GIW-13	06/21/13	18	52.9	1	28.1	142	-4	Y	
GIW-13	06/22/13	17.9	51.2	1.8	29.1	139	-4.6	Y	
GIW-13	06/23/13	18.6	46.8	1.9	32.7	140	-4.1	Y	
GIW-13	06/24/13	10.4	56.7	1.8	31.1	142	-4.2	Y	
GIW-13	06/25/13	15.6	56.8	1.7	25.9	140	-4.2	Y	
GIW-13	06/26/13	11.8	58.6	2	27.6	135	-4.3	Y	
GIW-13	06/27/13	8.5	53.6	1.4	36.5	136	-4	Y	
GIW-13	06/28/13	12.3	57.3	2.1	28.3	138	-4.2	Y	
GIW-13	06/29/13	6.4	63.2	0.1	30.3	138	-4.4	Y	
GIW-13	06/30/13	7.4	59.2	1.8	31.6	138	-4.3	Y	
GIW-13	07/01/13	7	59.7	1.6	31.7	138	-4.1	Y	
GIW-13	07/02/13	5.3	65.1	0.3	29.3	139	-4.6	Y	
GIW-13	07/03/13	6.2	65.5	0.5	27.8	142	-4	Y	
GIW-13	07/04/13	7	62.9	0.4	29.7	139	-4.1	Y	
GIW-13	07/05/13	6.3	65.5	0.6	27.6	137	-3.9	Y	
GIW-13	07/06/13	5.1	67.4	0	27.5	138	-4.1	Y	
GIW-13	07/07/13	6.5	64	0.7	28.8	138	-4.1	Y	
GIW-13	07/08/13	5.4	68.8	0.5	25.3	133	-4.2	Y	
GIW-13	07/09/13	4.9	64.5	0.8	29.8	136	-4	Y	
GIW-13	07/10/13	8.6	63.9	1.5	26	132	-4.1	Y	
GIW-13	07/11/13	6.9	62.7	0.9	29.5	137	-4	N	Replaced 1-inch rod seal, pump operating
GIW-13	07/12/13	4.8	65.1	0.2	29.9	139	-3.9	Y	
GIW-13	07/13/13	19.6	65.5	0.8	14.1	141	-4.1	Y	
GIW-13	07/14/13	7.2	66.1	0	26.7	135	-4.4	Y	
GIW-13	07/15/13	9.3	64.9	0	25.8	142	-4.1	Y	
GIW-13	07/17/13	12.1	39.8	6.9	41.2	145	-5.4	Y	Coll. 39 mins after midnight
GIW-13	07/17/13	8.6	68.2	0.2	23	139	-0.3	Y	
GIW-13	07/18/13	13.8	66.5	0	19.7	140	-0.2	Y	
GIW-13	07/19/13	15.4	65.4	0.3	18.9	142	-1	Y	
GIW-13	07/20/13	17	64.8	0.7	17.5	144	-0.9	Y	
GIW-13	07/21/13	12.7	59.7	2.2	25.4	140	-1	Y	
GIW-13	07/22/13	13.5	57.7	2.9	25.9	143	-1.1	Y	
GIW-13	07/23/13	11.1	65.5	0.6	22.8	141	-0.6	Y	Pulled and Cleaned Pump
GIW-13	07/24/13	11.9	61.4	1.5	25.2	140	-1.1	Y	
GIW-13	07/25/13	14.1	67.2	0.3	18.4	140	-0.3	N	Replaced 4 way valve - pump operational
GIW-13	07/26/13	11.6	59	2.2	27.2	144	-0.4	Y	
GIW-13	07/27/13	16.8	55.7	2.3	25.2	146	-0.9	Y	
GIW-13	07/28/13	10.7	62.7	0.1	26.5	145	-0.8	Y	
GIW-13	07/29/13	13.2	65.3	1	20.5	147	-1	Y	
GIW-13	07/30/13	10.8	62.1	1.2	25.9	146	-0.8	Y	
GIW-13	07/31/13	16.8	61.2	1.1	20.9	146	-0.7	Y	
GIW-13	08/01/13	13.2	64.4	0.4	22	148	-0.3	N	placed cylinder cap/4 way valve - pump operatio
GIW-13	08/02/13	11.8	66.1	0	22.1	141	-0.1	Y	
GIW-13	08/03/13	12.1	62	1.2	24.7	137	-0.4	Y	
GIW-13	08/04/13	12.2	66.6	0.6	20.6	147	-0.7	Y	
GIW-13	08/05/13	12	67.2	0.2	20.6	136	-0.3	Y	
GIW-13	08/06/13	11.3	66.4	0.2	22.1	139	-0.4	Y	
GIW-13	08/07/13	12.2	69	0	18.8	136	-0.8	Y	
GIW-13	08/08/13	12.4	63.6	1	23	140	-0.9	Y	
GIW-13	08/09/13	4.3	67.1	0.6	28	138	-1.7	Y	
GIW-13	08/10/13	9.6	61.9	1.6	26.9	134	-1.9	Y	
GIW-13	08/11/13	7	65.9	0.4	26.7	141	-1.2	Y	
GIW-13	08/12/13	12.7	66.3	0.6	20.4	149	-0.7	Y	
GIW-13	08/13/13	9	58.2	3	29.8	140	-1.4	Y	adjustment made, reduced O2 to 1.8%
GIW-13	08/14/13	10.1	65.6	0.2	24.1	143	-0.3	Y	
GIW-13	08/15/13	8.5	67.8	0	23.7	147	-0.3	Y	
GIW-13	08/16/13	12.4	68.4	0	19.2	140	-0.8	Y	
GIW-13	08/17/13	9.2	62	1.6	27.2	144	-1.1	Y	
GIW-13	08/18/13	13.7	66.7	0.5	19.1	145	-0.8	Y	
GIW-13	08/19/13	10	64.2	1.1	24.7	147	-1	Y	
GIW-13	08/20/13	11.6	65.9	0	22.5	145	-0.8	Y	
GIW-13	08/21/13	13.2	64	0.8	22	144	-1	Y	
GIW-13	08/22/13	14.7	65.3	0.3	19.7	146	-1.1	Y	
GIW-13	08/23/13	10.3	60.9	1.9	26.9	148	-1.5	Y	
GIW-13	08/24/13	14.7	69.5	0	15.8	146	-0.8	Y	
GIW-13	08/25/13	13.4	67.4	0.3	18.9	143	-1	N	Replace 1" rod seal - pump operational
GIW-13	08/26/13	11.9	63.8	0.7	23.6	142	-1.3	Y	
GIW-13	08/27/13	10.1	61	1.8	27.1	142	-1.6	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-13	08/28/13	8.9	63.8	1.1	26.2	147	-1.2	Y	
GIW-13	08/29/13	17.8	60.4	1.8	20	146	-0.5	Y	
GIW-13	08/30/13	5.2	70.3	0	24.5	146	-0.2	Y	
GIW-13	08/31/13	6.3	61.7	1.3	30.7	144	-0.9	Y	
GIW-13	09/01/13	8	61.9	1.3	30.9	138	-1.5	Y	
GIW-13	09/02/13	6.1	64.5	1.3	28.1	138	-1.2	Y	
GIW-13	09/03/13	17.1	69.4	0.1	13.4	145	-2.6	Y	
GIW-13	09/04/13	4.5	70	0	25.5	142	-1.8	Y	
GIW-13	09/05/13	5.3	66	1.5	27.2	146	-0.6	Y	
GIW-13	09/06/13	4.6	76.8	0	18.6	147	-0.4	Y	
GIW-13	09/07/13	6	65.8	1.6	26.6	144	-0.8	Y	
GIW-13	09/08/13	5	74	0	21	147	-0.2	Y	
GIW-13	09/09/13	5.9	73.9	0	20.2	147	-0.2	Y	
GIW-13	09/10/13	6.3	72	1.1	20.6	149	-1.2	Y	
GIW-13	09/11/13	7.2	71.5	0.8	20.5	143	-1	N	Replaced 4 way valve - pump operational
GIW-13	09/12/13	6.5	65.9	2.1	25.5	145	-1.7	Y	Adjusted vac, reduced O2 to 1.8%
GIW-13	09/13/13	7.1	76.3	0	16.6	141	-0.4	Y	
GIW-13	09/14/13	8.8	71.4	1	18.8	144	-1.3	Y	
GIW-13	09/15/13	9.4	77.6	0	13	144	-1	N	Replaced 4 way valve-pump operational
GIW-13	09/16/13	5.5	69.8	0.6	24.1	136	-0.6	Y	
GIW-13	09/17/13	5.9	69.1	0.2	24.8	147	-0.5	Y	
GIW-13	09/18/13	5.8	69	0	25.2	148	-0.3	Y	
GIW-13	09/19/13	5.8	70	0	24.2	141	-0.2	Y	
GIW-13	09/20/13	7.1	77.6	0	15.3	150	-0.5	Y	
GIW-13	09/21/13	7.6	73.3	0	19.1	152	-0.6	Y	
GIW-13	09/22/13	7.7	78.2	0	14.1	147	-0.6	Y	
GIW-13	09/23/13	8	76.4	0	15.6	150	-0.7	Y	
GIW-13	09/25/13	10.3	80.9	0	8.8	150	-2.6	Y	
GIW-13	09/26/13	8.7	74.8	0.1	16.4	150	-1.7	Y	
GIW-13	09/27/13	8.5	72.9	0	18.6	149	-1.1	Y	
GIW-13	09/28/13	4.9	58.3	3.7	33.1	146	-3.3	Y	Adjusted vac reduced O2 to 0%
GIW-13	09/29/13	7.2	71.7	0	21.1	150	-0.7	Y	
GIW-13	09/30/13	4.7	72.9	0	22.4	143	-0.1	Y	
GIW-13	10/01/13	4.5	71.4	0	24.1	149	-0.3	Y	
GIW-13	10/02/13	4.8	71.7	0	23.5	153	-0.2	Y	
GIW-13	10/03/13	7.6	71.7	0	20.7	146	-1.1	Y	
GIW-13	10/04/13	7.2	72.1	0	20.7	147	-0.8	N	Replaced 4 way valve - pump operational
GIW-13	10/05/13	8.8	80.6	0	10.6	148	-1.7	Y	
GIW-13	10/06/13	8.7	76.1	0	15.2	147	-2.4	Y	
GIW-13	10/07/13	7.7	79.6	0	12.7	141	-1.5	Y	
GIW-13	10/08/13	6.4	79.5	0	14.1	145	-0.7	Y	
GIW-13	10/09/13	6.8	79.6	0	13.6	150	-1.3	Y	
GIW-13	10/10/13	8.2	79.8	0	12	149	-1.6	Y	
GIW-13	10/11/13	8.5	79.9	0	11.6	146	-1.7	Y	
GIW-13	10/12/13	9.8	75.1	1	14.1	146	-3.9	N	Replaced 4 way valve - pump operational
GIW-13	10/13/13	10	81.6	0	8.4	143	-3	Y	
GIW-13	10/14/13	9.7	76	0	14.3	146	-1.8	Y	
GIW-13	10/15/13	10.2	72.1	0.9	16.8	138	-4.3	Y	
GIW-13	10/16/13	9.8	77	0	13.2	141	-2.5	Y	
GIW-13	10/17/13	10.8	75	0	14.2	145	-3.4	N	Replaced 4 way valve - pump operational
GIW-13	10/18/13	10.4	76.6	0	13	143	-2.3	Y	
GIW-13	10/19/13	12.1	83.2	0	4.7	139	-4.4	Y	
GIW-13	10/20/13	11.1	78	0	10.9	138	-4.4	Y	
GIW-13	10/21/13	10.7	75.3	1.4	12.6	133	-5.5	N	Replaced 4 way valve - pump operational
GIW-13	10/22/13	11.6	88.3	0	0.1	142	-3.7	Y	
GIW-13	10/23/13	11.6	87.8	0	0.6	141	-3.9	Y	
GIW-13	10/24/13	10.7	75.4	0.1	13.8	137	-3.7	Y	
GIW-13	10/25/13	11.2	72.8	0.6	15.4	142	-5.5	Y	
GIW-13	10/28/13	10.9	74.8	0	14.3	145	-4.4	Y	
GIW-13	10/29/13	11.4	76.2	0	12.4	142	-4.4	Y	
GIW-13	10/30/13	7.7	65.8	1.6	24.9	146	-3.1	Y	
GIW-13	10/31/13	8	62.9	2.8	26.3	143	-4	Y	
GIW-13	11/01/13	8.9	72.1	0.7	18.3	141	-3.2	Y	
GIW-13	11/04/13	10	75.3	0	14.7	142	-3.4	Y	
GIW-13	11/05/13	21.6	76.2	0.1	2.1	141	-4.4	Y	
GIW-13	11/06/13	10.5	76.4	0	13.1	136	-4.2	Y	
GIW-13	11/07/13	10.1	74.4	0	15.5	142	-3.7	Y	
GIW-13	11/08/13	10.4	77.5	0	12.1	142	-4.5	Y	
GIW-13	11/11/13	10.2	76.5	0	13.3	142	-4.9	Y	
GIW-13	11/12/13	8.4	75.7	1.1	14.8	140	-5.2	Y	
GIW-13	11/13/13	9.8	79.3	0	10.9	141	-4.9	Y	

GIW ID#	Reading Date	CH4 (% Vol.)	CO2 (% Vol.)	Oxygen (% Vol.)	Balance (% Vol.)	Wellhead Temp. (F)	Pressure (In W.C.)	Pump Operational (Y/N)	Comments
GIW-13	11/14/13	11.2	79.9	0	8.9	140	-4	Y	
GIW-13	11/15/13	11.5	75.6	0	12.9	144	-5.1	Y	
GIW-13	11/18/13	12.6	78.6	0	8.8	143	-6.1	Y	
GIW-13	11/19/13	12.3	77.8	0	9.9	144	-4.9	Y	
GIW-13	11/20/13	11.9	72.9	0	15.2	143	-5.2	Y	
GIW-13	11/21/13	11	76.7	0.3	12	143	-4.8	Y	
GIW-13	11/22/13	8.8	61.7	3.6	25.9	143	-5	Y	
GIW-13	11/25/13	10.7	82.8	0	6.5	139	-5.9	Y	
GIW-13	11/26/13	8.1	65.6	2.6	23.7	142	-5.4	Y	
GIW-13	11/27/13	9.8	72.8	1.2	16.2	145	-4.7	Y	
GIW-13	11/28/13	8.3	70.2	0.4	21.1	140	-4.6	N	Replaced 4 way valve - pump operational
GIW-13	11/29/13	9.6	79.7	0	10.7	142	-4.7	Y	
GIW-13	12/02/13	8.7	74.1	0	17.2	149	-4.9	Y	
GIW-13	12/03/13	8.8	75.2	0	16	142	-9	Y	
GIW-13	12/04/13	7.5	73.9	0	18.6	142	-4.5	Y	
GIW-13	12/05/13	7.9	72.7	0.4	19	134	-4.9	Y	
GIW-13	12/09/13	7.5	72.3	0.2	20	133	-4.8	Y	
GIW-13	12/10/13	5.8	55.6	5	33.6	148	-4.4	Y	
GIW-13	12/11/13	3.6	69.6	0	26.8	147	-1	Y	
GIW-13	12/12/13	5.3	69.8	0	24.9	138	-2	Y	
GIW-13	12/13/13	5.9	71.4	0	22.7	143	-2.7	Y	
GIW-13	12/16/13	6.2	72.7	0	21.1	143	-4	Y	
GIW-13	12/17/13	7.8	73.8	0	18.4	143	-4	Y	
GIW-13	12/18/13	7.5	69.7	0	22.8	140	-4.6	Y	
GIW-13	12/19/13	7.8	69.9	0	22.3	142	-4.9	Y	
GIW-13	12/20/13	7.3	67.8	0	24.9	145	-4.2	Y	
GIW-13	12/23/13	7.2	68.6	0	24.2	150	-4.5	Y	
GIW-13	12/24/13	6.7	69.5	0	23.8	140	-4.4	Y	
GIW-13	12/25/13	5.8	75.8	0	18.4	153	-4	Y	
GIW-13	12/26/13	6.6	68.3	0	25.1	158	-4.1	Y	
GIW-13	12/27/13	8.5	68.1	0	23.4	155	-4.1	Y	
GIW-13	12/30/13	5.9	70.1	0	24	150	-4	Y	
GIW-13	12/31/13	6.3	69.1	0	24.6	155	-4.1	Y	
GIW-13	01/01/14	6.2	70	0	23.8	151	-4	NA	
GIW-13	01/03/14	5.6	68.6	0	25.8	145	-4.3	Y	

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 1D	3/27/13	25.9	12.0	252.22	37.9	290.12	30.00	Y	Herst - J. Wilkinson	Dedicated Transducer	
LCS- 1D	4/8/13	86.1	12.0	252.22	98.1	350.32	30.00	N	B. Sehie	Dedicated Transducer	Storage Restriction - Pump Off
LCS- 1D	4/15/13	NA	12.0	252.22			30.00	N	Herst - M. Stewart	Dedicated Transducer	LCS Offline for Electrical Service
LCS- 1D	4/22/13	NA	12.0	252.22			30.00	N	B. Sehie	Dedicated Transducer	LCS Offline for Electrical Service
LCS- 1D	4/29/13	15.6	12.0	252.22	27.6	279.82	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	5/6/13	15.2	12.0	252.22	27.2	279.42	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 1D	5/13/13	15.0	12.0	252.22	27.0	279.22	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	5/20/13	14.9	12.0	252.22	26.9	279.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	5/27/13	15.4	12.0	252.22	27.4	279.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	6/3/13	14.8	12.0	252.22	26.8	279.02	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	6/10/13	14.9	12.0	252.22	26.9	279.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 1D	6/17/13	14.9	12.0	252.22	26.9	279.12	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 1D	6/24/13	74.8	12.0	252.22	86.8	339.02	30.00	N	B. Sehie	Dedicated Transducer	Motor Failure - replacement schd. 7/1/13
LCS- 1D	7/1/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	7/8/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	7/15/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	7/22/13					0.00	30.00	N	Herst - M. Stewart	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	7/29/13					0.00	30.00	N	Herst - M. Stewart	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	8/6/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	8/13/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	8/19/13					0.00	30.00	N	Herst - J. Regan	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	8/26/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	9/6/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	9/10/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	9/20/13					0.00	30.00	N	B. Sehie	Dedicated Transducer	Sump collapsed, no power
LCS- 1D	9/26/13					0.00	30.00	N	B. Sehie	No Transducer	Blackhawk Pump Added 9/25/13
LCS- 1D	9/30/13					0.00	30.00	N	Herst - M. Stewart	No Transducer	
LCS- 1D	10/11/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	10/18/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	10/25/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	10/31/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	11/8/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	11/13/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	11/18/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	11/27/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	12/6/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	12/14/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	12/20/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	12/23/13					0.00	30.00	N	B. Sehie	No Transducer	
LCS- 1D	1/3/14					0.00	30.00	N	B. Sehie	No Transducer	

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 2D	3/27/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	Herst - J. Wilkinson	Dedicated Transducer	
LCS- 2D	4/8/13	144.5	14.4	235.92	158.9	394.82	30.00	N	B. Sehie	Dedicated Transducer	Storage Restriction - Pump Off
LCS- 2D	4/15/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	4/22/13	13.5	14.4	235.92	27.9	263.82	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	4/29/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	5/6/13	13.5	14.4	235.92	27.9	263.82	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	5/13/13	13.3	14.4	235.92	27.7	263.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	5/20/13	13.7	14.4	235.92	28.1	264.02	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	5/27/13	13.9	14.4	235.92	28.3	264.22	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	6/3/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	6/10/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	6/17/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	6/24/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	7/1/13	13.7	14.4	235.92	28.1	264.02	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	7/8/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	7/15/13	14.3	14.4	235.92	28.7	264.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	7/22/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	7/29/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	8/6/13	13.3	14.4	235.92	27.7	263.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	8/13/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	8/19/13	13.7	14.4	235.92	28.1	264.02	30.00	Y	Herst - J. Regan	Dedicated Transducer	
LCS- 2D	8/26/13	13.5	14.4	235.92	27.9	263.82	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	9/6/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	9/10/13	13.7	14.4	235.92	28.1	264.02	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	9/20/13	13.5	14.4	235.92	27.9	263.82	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	9/26/13	13.5	14.4	235.92	27.9	263.82	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	9/30/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 2D	10/11/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	10/18/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	10/25/13	13.1	14.4	235.92	27.5	263.42	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	10/31/13	13.3	14.4	235.92	27.7	263.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	11/8/13	13.1	14.4	235.92	27.5	263.42	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	11/13/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	11/18/13	13.6	14.4	235.92	28.0	263.92	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	11/27/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	12/6/13	13.8	14.4	235.92	28.2	264.12	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	12/14/13	13.1	14.4	235.92	27.5	263.42	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	12/20/13	13.4	14.4	235.92	27.8	263.72	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	12/23/13	13.3	14.4	235.92	27.7	263.62	30.00	Y	B. Sehie	Dedicated Transducer	
LCS- 2D	1/3/14	13.4	14.4	235.92	27.8	263.72	30.00	Y	B. Sehie	Dedicated Transducer	

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 3C	3/27/13					N/A	30.00	N/A	Herst - J. Wilkinson	N/A	Non-Operational
LCS- 3C	4/8/13					N/A	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	4/15/13					N/A	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 3C	4/22/13					N/A	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	4/29/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	5/6/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 3C	5/13/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	5/20/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	5/27/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	6/3/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	6/10/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	6/17/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 3C	6/24/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	7/1/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	7/8/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	7/15/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	7/22/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 3C	7/29/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 3C	8/6/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	8/13/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	8/19/13					0.00	30.00	N/A	Herst - J. Regan	N/A	Non-Operational
LCS- 3C	8/26/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	9/6/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	9/10/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	9/20/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 3C	9/26/13					0.00	30.00	N/A	B. Sehie	N/A	Blackhawk Pump Installed 9/23/13
LCS- 3C	9/30/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	
LCS- 3C	10/11/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	10/18/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	10/25/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	10/31/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	11/8/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	11/13/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	11/18/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	11/27/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	12/6/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	12/14/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	12/20/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	12/23/13					0.00	30.00	N/A	B. Sehie	N/A	
LCS- 3C	1/3/14					0.00	30.00	N/A	B. Sehie	N/A	

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 4B	3/27/13					N/A	30.00	N/A	Herst - J. Wilkinson	N/A	Non-Operational
LCS- 4B	4/8/13					N/A	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	4/15/13					N/A	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 4B	4/22/13					N/A	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	4/29/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	5/6/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 4B	5/13/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	5/20/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	5/27/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	6/3/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	6/10/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	6/17/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Installation of replacement sump in current location impossible, installation aborted.
LCS- 4B	6/24/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	7/1/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	7/8/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	7/15/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	7/22/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 4B	7/29/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 4B	8/6/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	8/13/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	8/19/13					0.00	30.00	N/A	Herst - J. Regan	N/A	Non-Operational
LCS- 4B	8/26/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	9/6/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	9/10/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	9/20/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	9/26/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	9/30/13					0.00	30.00	N/A	Herst - M. Stewart	N/A	Non-Operational
LCS- 4B	10/11/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	10/18/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	10/25/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	10/31/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	11/8/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	11/13/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	11/18/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	11/27/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	12/6/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	12/14/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	12/20/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	12/23/13					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational
LCS- 4B	1/3/14					0.00	30.00	N/A	B. Sehie	N/A	Non-Operational

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 5A	3/27/13	25.9	15.0	235.4	40.9	276.30	50.00	Y	Herst - J. Wilkinson	Dedicated Transducer	
LCS- 5A	4/8/13	41.8	15.0	235.4	56.8	292.20	50.00	N	B. Sehie	Dedicated Transducer	Storage Restriction - Pump Off
LCS- 5A	4/15/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	4/22/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	4/29/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	5/6/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	5/13/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	5/20/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	5/27/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	6/3/13	14.1	15.0	235.4	29.1	264.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	6/10/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	6/17/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	6/24/13	11.9	15.0	235.4	26.9	262.30	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	7/1/13	12.7	15.0	235.4	27.7	263.10	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	7/8/13	11.1	15.0	235.4	26.1	261.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	7/15/13	10.2	15.0	235.4	25.2	260.60	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	7/22/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	7/29/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	8/6/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	8/13/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	8/19/13	10.2	15.0	235.4	25.2	260.60	50.00	Y	Herst - J. Regan	Dedicated Transducer	
LCS- 5A	8/26/13	10.4	15.0	235.4	25.4	260.80	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	9/6/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	9/10/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	9/20/13	10.3	15.0	235.4	25.3	260.70	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	9/26/13	20.2	15.0	235.4	35.2	270.60	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	9/30/13	14.1	15.0	235.4	29.1	264.50	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 5A	10/11/13	10.1	15.0	235.4	25.1	260.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	10/18/13	11.5	15.0	235.4	26.5	261.90	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	10/25/13	10.6	15.0	235.4	25.6	261.00	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	10/31/13	12.1	15.0	235.4	27.1	262.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	11/8/13	11.0	15.0	235.4	26.0	261.40	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	11/13/13	12.1	15.0	235.4	27.1	262.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	11/18/13	12.8	15.0	235.4	27.8	263.20	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	11/27/13	12.1	15.0	235.4	27.1	262.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	12/6/13	11.1	15.0	235.4	26.1	261.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	12/14/13	11.3	15.0	235.4	26.3	261.70	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	12/20/13	11.1	15.0	235.4	26.1	261.50	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	12/23/13	10.0	15.0	235.4	25.0	260.40	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 5A	1/3/14	9.9	15.0	235.4	24.9	260.30	50.00	Y	B. Sehie	Dedicated Transducer	

LCS Number	Date Reading Collected	Measured Liquid Level Above Transducer (Ft.)	Transducer Height above Floor of Quarry (Ft.)	Base of Sump Elevation (Ft. MSL)	Height of Liquid (Ft.)	Elevation of Leachate (Ft. MSL)	Compliance Level (Ft. Above Quarry Floor)	Pump on during measurement? (Y/N)	Technician initials	Liquid level meter used	Comments
LCS- 6B	3/27/13	7.2	9.4	428.52	16.6	445.12	50.00	Y	Herst - J. Wilkinson	Dedicated Transducer	
LCS- 6B	4/8/13	7.3	9.4	428.52	16.7	445.22	50.00	Y	B. Sehie	Dedicated Transducer	Pump in Dry Run Protection Mode (off)
LCS- 6B	4/15/13	9.3	9.4	428.52	18.7	447.22	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 6B	4/22/13	10.6	9.4	428.52	20.0	448.52	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	4/29/13	10.5	9.4	428.52	19.9	448.42	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	5/6/13	10.6	9.4	428.52	20.0	448.52	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 6B	5/13/13	8.4	9.4	428.52	17.8	446.32	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	5/20/13	10.6	9.4	428.52	20.0	448.52	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	5/27/13	9.6	9.4	428.52	19.0	447.52	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	6/3/13	9.1	9.4	428.52	18.5	447.02	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	6/10/13	11.1	9.4	428.52	20.5	449.02	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	6/17/13	11.0	9.4	428.52	20.4	448.92	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 6B	6/24/13	11.1	9.4	428.52	20.5	449.02	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	7/1/13	10.0	9.4	428.52	19.4	447.92	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	7/8/13	7.8	9.4	428.52	17.2	445.72	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	7/15/13	9.8	9.4	428.52	19.2	447.72	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	7/22/13	REM Fault	9.4	428.52	#VALUE!	#VALUE!	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 6B	7/29/13	REM Fault			#VALUE!	#VALUE!	50.00	Y	Herst - M. Stewart	Dedicated Transducer	
LCS- 6B	8/6/13	9.4	9.4	428.52	18.8	447.32	50.00	Y	B. Sehie	Dedicated Transducer	Pump Replaced 8/6/13
LCS- 6B	8/13/13	9.8	9.4	428.52	19.2	447.72	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	8/19/13	8.4	9.4	428.52	17.8	446.32	50.00	Y	Herst - J. Regan	Dedicated Transducer	
LCS- 6B	8/26/13	8.4	9.4	428.52	17.8	446.32	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	9/6/13	7.5	9.4	428.52	16.9	445.42	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	9/10/13	9.2	9.4	428.52	18.6	447.12	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	9/20/13	8.4	9.4	428.52	17.8	446.32	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	9/26/13	9.8	9.4	428.52	19.2	447.72	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	9/30/13	9.8	9.4	428.52	19.2	447.72	50.00	Y	Herst - J. Wilkinson	Dedicated Transducer	
LCS- 6B	10/11/13	9.7	9.4	428.52	19.1	447.62	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	10/18/13	8.4	9.4	428.52	17.8	446.32	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	10/25/13	9.2	9.4	428.52	18.6	447.12	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	10/31/13	8.8	9.4	428.52	18.2	446.72	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	11/8/13	9.1	9.4	428.52	18.5	447.02	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	11/13/13	9.7	9.4	428.52	19.1	447.62	50.00	Y	B. Sehie	Dedicated Transducer	
LCS- 6B	11/18/13	No Data	9.4	428.52	#VALUE!	#VALUE!	50.00	N	B. Sehie	Dedicated Transducer	Power Supply Damaged during drilling operations, repair scheduled
LCS- 6B	11/27/13	8.8	9.4	428.52	18.2	446.72	50.00	N	B. Sehie	Dedicated Transducer	Repaired to functionality
LCS- 6B	12/6/13	No Data	9.4	428.52	#VALUE!	#VALUE!	50.00	N	B. Sehie	Dedicated Transducer	Electric Conduit removed for N. Quarry work, scheduled to be restored by 12/23/13
LCS- 6B	12/14/13	No Data	9.4	428.52	#VALUE!	#VALUE!	50.00	N	B. Sehie	Dedicated Transducer	See Above
LCS- 6B	12/20/13	No Data	9.4	428.52	#VALUE!	#VALUE!	50.00	N	B. Sehie	Dedicated Transducer	See Above
LCS- 6B	12/23/13	7.6	9.4	428.52	17.0	445.52	50.00	N	B. Sehie	Dedicated Transducer	Power Repaired 12/23/13
LCS- 6B	1/3/14	7.9	9.4	428.52	17.3	445.82	50.00	N	B. Sehie	Dedicated Transducer	