

# COKE OVEN AREA INTERIM MEASURES PROGRESS REPORT (NOVEMBER 2010)

*Prepared for*

Severstal-Sparrows Point, LLC  
Sparrows Point, Maryland



December 30, 2010

# URS

URS Corporation  
200 Orchard Ridge Drive, Suite 101  
Gaithersburg, MD 20878  
Project no. 15302307

# Coke Oven Area Interim Remedial Measures Progress Report

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## Introduction

In accordance with US EPA's September 2, 2010 letter, this document is the third progress report that summarizes implementation progress for the United States Environmental Protection Agency (US EPA)-approved interim measures (IMs) that have been developed to address identified environmental conditions at the Coke Oven Area (COA) Special Study Area at the Severstal Sparrows Point Facility located in Sparrows Point, Maryland. This progress report summarizes IM progress for November 2010.

For mutual ease of understanding, and as agreed during the June 3, 2010 teleconference with US EPA, the following designations are applied in this document to the six (6) IM "Cells" (**Figure 1**) at the COA:

- Cell 1: Prototype Air Sparge/Soil Vapor Extraction (AS/SVE) System in the Former Benzol Processing Area,
- Cell 2: AS/SVE and Dual Phase Groundwater Extraction System in Former Coal Storage Area,
- Cell 3: AS/SVE System in "Cove" Area,
- Cell 4: In-Situ Anaerobic Bio-treatment Area in Coal Tar Area,
- Cell 5: Groundwater Extraction at the Turning Basin Area, and
- Cell 6: LNAPL Recovery at the Former Benzol Processing Area.

As of November 30, 2010, Cell 1 and Cell 6 continue to be operational and the planned evaluation and design of the in-situ enhanced anaerobic bioremediation system at Cell 4 is continuing. All three Cells are addressed in this progress report. The other Cells are in various stages of evaluation, design, and under permitting considerations by Maryland Department of the Environment (MDE).

# Coke Oven Area Interim Remedial Measures Progress Report

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## Cell 1: Prototype AS/SVE System in the Former Benzol Processing Area

US EPA's March 2, 2010 letter approved the air sparge/soil vapor extraction (AS/SVE) interim measure for Cell 1, as originally proposed by Severstal. This cell consists of a prototype IM, which includes AS/SVE coupled with vapor destruction via an internal combustion engine (ICE). Design of this system includes air sparging groundwater wells and vapor collection trenches as shown schematically on **Figure 2**.

**Figure 3** shows the system layout of Cell 1, which consists of the following major components:

- Three (3) generally parallel and interconnected vapor collection trenches approximately 500 feet long and 60 feet apart, fitted with perforated 4-inch DR-17 high-density polyethylene (HDPE) pipe. Fifteen (15) vertical extraction risers are connected to a common suction header,
- Sixteen (16) air sparge wells located between the trenches,
- At-grade, 4-inch DR-17 HDPE sparge and suction headers fitted with control valves for 2-inch DR-17 HDPE sparge and suction laterals,
- One (1) ICE unit for extraction vacuum and vapor destruction, which is equipped with an integral Becker KDT series air compressor for sparge air, and
- Perimeter slag berm for system demarcation and protection from vehicular traffic.

Operational performance of Cell 1 during this reporting period is summarized in **Table 1**. In summary, the ICE operated almost 73% during this reporting period. Hydrocarbon removal rates averaged approximately 2.56 pounds per hour (ranging from 56 to 61 pounds per operating day for a total of 1,341 pounds) during this period. The data and methodology used to compute hydrocarbon removal rates is summarized in **Attachment 1**. Severstal is continuing to evaluate possible methods for enhancing benzene recovery. The ICE catalytic converter destruction efficiency averaged around 93%.

Soil gas and ICE exhaust gas samples were collected to evaluate system performance. Calibrated field instruments (e.g., photoionization detector [PID]) and ICE system-calculated vapor concentrations were also used to evaluate system performance. The untreated soil gas samples were collected in Tedlar<sup>®</sup> bags and the ICE exhaust sample collected in a 6-liter SUMMA can. All gas samples were submitted to TestAmerica Laboratories, Inc. Knoxville,

## Coke Oven Area Interim Remedial Measures Progress Report

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Tennessee laboratory for analysis by US EPA Method TO-15. These data are summarized in **Table 2**.

From **Table 2**, influent soil gas hydrocarbon concentrations, collected on November 9, 18, and 30, 2010, were 3,900, 5,900, and 4,200 parts per million by volume (ppmv), respectively. As indicated above, Severstal is evaluating measures to maximize benzene concentration in the extracted soil gas in order to maximize benzene recovery and destruction.

Groundwater samples were collected on November 30, 2010 from the following wells:

- BP-MW-09 (upgradient of Cell 1),
- CO18-PZM006 (upgradient of Cell 1 at edge of berm), and
- CO02-PZM006 (downgradient of Cell 1).

The groundwater samples were submitted to Microbac Laboratories, Inc. of Baltimore, Maryland for the analyses summarized in **Table 3**. These data indicate benzene is the most prevalent volatile organic compound (VOC) constituent. The November groundwater hydrocarbon concentrations shown in **Table 3** reflect an increase in all three wells, as compared to previously reported values. Severstal is continuing to monitor the groundwater hydrocarbon concentrations to assess any potentially significant trends.

Overall, Severstal is continuing to operate the prototype system and is evaluating measures to maximize hydrocarbon concentration in the extracted soil gas in order to maximize hydrocarbon recovery and destruction. These measures include:

- Planning to install measures to prevent condensate water from freezing in the SVE and air sparging piping, and
- Evaluating various technologies for vapor extraction and destruction.

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## Cell 4: In-Situ Anaerobic Bio-treatment Area in Coal Tar Area

US EPA's March 2, 2010 letter approved the in-situ bio-treatment concept for Cell 4 (**Figure 4**), as originally proposed by Severstal. As discussed in September's progress report, baseline groundwater data and a microbial conditions evaluation using Bio-Trap<sup>®</sup> Samplers (Bio-Traps) were performed in July 2010 as the first step to developing a preliminary conceptual design.

Severstal is continuing efforts toward designing, installing and operating the planned in-situ enhanced anaerobic bioremediation system at Cell 4. These activities include:

1. Design and install a groundwater re-circulation system to deliver bionutrients to the subsurface.
2. Supplement the depleted nutrients that are necessary to support general microbial activities, including nitrate and phosphorous. Commercially available bionutrients (such as VB591 from BioNutra Tech) are being evaluated.

Severstal is expecting to begin installation and construction activities the first quarter of 2011.

## Cell 6: LNAPL Extraction at the Former Benzol Processing Area

The Cell 6 LNAPL monitoring and recovery system was monitored approximately weekly during November (four site visits). **Table 4** summarizes LNAPL occurrence and recovery observed during the reporting period and **Figure 5** illustrates the well locations.

During November, approximately 462 gallons (3,381 pounds) of LNAPL was recovered, bringing the total recovered LNAPL to 2,249 gallons (16,481 pounds) as of November 24. The LNAPL was recovered from the following wells:

Well	LNAPL Recovery (gal / lbs)		Notes
	During November	Total thru November 24	
BP-MW-05	360 / 2,638	1,910 / 13,995	
RW-04	87 / 637	217 / 1,590	
BP-MW-08	14 / 103	114 / 835	
BP-MW-11	0 / 0	7.8 / 57	(a)
RW-1	0.3 / 2	0.3 / 2	(b)
RW-3	0.2 / 1	0.2 / 1	(b)

(a) Recovery system moved from BP-MW-11 to BP-MW-08 on September 8, 2010.

(b) Manual bailing.

## Coke Oven Area Interim Remedial Measures Progress Report

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The wells are presented in **Table 4** in the order of decreasing LNAPL occurrence/recovery. During the reporting period, the range of LNAPL thicknesses has varied as summarized below (wells are not listed if LNAPL was not present):

- BP-MW-05 (2.08 to 2.30 ft),
- BP-MW-08 (0.52 to 0.92 ft),
- BP-MW-11 (0.09 to 0.19 ft),
- BP-MW-10 (0.07 to 0.09 ft),
- RW-1 (0.17 to 0.25 ft),
- RW-2 (0.04 to 0.04 ft),
- RW-3 (0.30 to 0.34 ft), and
- RW-4 (0.29 to 0.54 ft).

LNAPL was not observed in wells RW-5, BP-MW-07, BP-MW-06, BP-MW-09, or CO19-PZM004.

For all wells in which LNAPL accumulated, **Table 5** provides well-specific details concerning the measured depths to LNAPL, the water table, and calculated LNAPL thicknesses.

# Tables

**Table 1**  
**Summary of Operating Conditions**  
**Cell 1: Prototype AS/SVE System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**

<b>Parameter</b>	<b>Units</b>	<b>Quantity</b>
Total ICE Operating Time (November 1 - November 30, 2010)	hours	524
Overall ICE Operational Time	%	72.8
Estimated Total Hydrocarbons Destroyed	pounds	1,341
Estimated Hydrocarbon Removal Rate	pounds/hour	2.56

**Table 2**  
**Summary of Soil Gas Analytical Results**  
**Cell 1: Prototype AS/SVE System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**

Sample ID	ICE Influent	ICE Influent	ICE Exhaust	ICE Influent	ICE Exhaust
Date	11/9/2010	11/18/2010	11/18/2010	11/30/2010	11/30/2010
Time	9:18	12:10	12:15	11:55	12:03
Dilution Factor	225319.04	169521.45	24034.78	197001.27	19550.99
Analyte	Units				
<b>TO-15 Volatile Organics</b>					
trans-1,3-Dichloropropene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Acetone	ppb	< 1,100,000 U	< 850,000 U	< 120,000 U	< 98,000 U
Ethylbenzene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
2-Hexanone	ppb	< 110,000 U	< 85,000 U	< 12,000 U	< 9,800 U
Methylene Chloride	ppb	< 110,000 U	< 85,000 U	< 12,000 U	< 9,800 U
<b>Benzene</b>	ppb	<b>3,900,000</b>	<b>5,900,000</b>	<b>400,000</b>	<b>4,200,000</b>
1,1,2,2-Tetrachloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Tetrachloroethene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
<b>Toluene</b>	ppb	<b>760,000</b>	<b>1,100,000</b>	<b>38,000</b>	<b>1,100,000</b>
1,1,1-Trichloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
1,1,2-Trichloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
<b>Trichloroethene</b>	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Vinyl Chloride	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
o-Xylene	ppb	< 45,000 U	<b>40,000</b>	< 4,800 U	<b>64,000</b>
<b>m-Xylene &amp; p-Xylene</b>	ppb	<b>130,000</b>	<b>150,000</b>	< 4,800 U	<b>230,000</b>
2-Butanone (MEK)	ppb	< 230,000 U	< 170,000 U	< 24,000 U	< 20,000 U
4-Methyl-2-pentanone (MIBK)	ppb	< 110,000 U	< 85,000 U	< 12,000 U	< 9,800 U
Bromoform	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Carbon Disulfide	ppb	< 110,000 U	< 85,000 U	< 12,000 U	< 9,800 U
Carbon tetrachloride	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Chlorobenzene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Chloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
Chloroform	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
1,1-Dichloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
1,2-Dichloroethane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
1,1-Dichloroethene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
trans-1,2-Dichloroethene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
1,2-Dichloropropane	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
cis-1,3-Dichloropropene	ppb	< 45,000 U	< 34,000 U	< 4,800 U	< 3,900 U
<b>Total Volatile Organics</b>	ppb	<b>4,790,000</b>	<b>7,190,000</b>	<b>438,000</b>	<b>5,594,000</b>
<b>Hydrocarbons</b>					
Methane	%	< 0.18 U	< 0.20 U		< 0.24 U

**Notes:**  
<Blank> = Not measured  
**BOLD** = Analyte detected  
ppb = parts per billion  
</U = Analyte not detected above corresponding Reporting Limit  
% = Percent

**Table 3**  
**Summary of Groundwater Analytical Results**  
**Cell 1: Prototype AS/SVE System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**

	Sample ID	CO02-PZM006	CO18-PZM006	BP-MW-09
Analyte	Date	11/30/2010	11/30/2010	11/30/2010
Analyte	Units			
<b>Water Quality Parameters</b>				
Temperature	deg C	19.50	24.00	17.93
pH	std units	7.90	8.01	11.68
ORP	mV	--	--	--
Conductivity	mS/cm	1.620	2.040	2.520
Turbidity	NTU	0.0	11.2	1.2
DO	mg/L	0.34	5.67	0.76
<b>Volatile Organics</b>				
Acetone	µg/L	< 500 U	< 500 U	< 500 U
<b>Benzene</b>	µg/L	<b>3,600,000</b>	<b>1,900,000</b>	<b>2,500,000</b>
Bromoform	µg/L	< 100 U	< 100 U	< 100 U
2-Butanone	µg/L	< 500 U	< 500 U	< 500 U
Carbon Disulfide	µg/L	< 100 U	< 100 U	< 100 U
Carbon Tetrachloride	µg/L	< 100 U	< 100 U	< 100 U
Chlorobenzene	µg/L	< 100 U	< 100 U	< 100 U
Chloroethane	µg/L	< 100 U	< 100 U	< 100 U
Chloroform	µg/L	< 100 U	< 100 U	< 100 U
1,1-Dichloroethane	µg/L	< 100 U	< 100 U	< 100 U
1,2-Dichloroethane	µg/L	< 100 U	< 100 U	< 100 U
1,1-Dichloroethene	µg/L	< 100 U	< 100 U	< 100 U
trans-1,2-Dichloroethene	µg/L	< 100 U	< 100 U	< 100 U
1,2-Dichloropropane	µg/L	< 100 U	< 100 U	< 100 U
cis-1,3-Dichloropropene	µg/L	< 100 U	< 100 U	< 100 U
trans-1,3-Dichloropropene	µg/L	< 100 U	< 100 U	< 100 U
<b>Ethylbenzene</b>	µg/L	<b>1,100</b>	<b>240 U</b>	<b>4,000</b>
2-Hexanone	µg/L	< 500 U	< 500 U	< 500 U
4-Methyl-2-Pentanone (MIBK)	µg/L	< 500 U	< 500 U	< 500 U
Methylene Chloride	µg/L	< 100 U	< 100 U	< 100 U
1,1,1,2-Tetrachloroethane	µg/L	< 100 U	< 100 U	< 100 U
1,1,1,2,2-Tetrachloroethane	µg/L	< 100 U	< 100 U	< 100 U
Tetrachloroethene	µg/L	< 100 U	< 100 U	< 100 U
<b>Toluene</b>	µg/L	<b>330,000</b>	<b>220,000</b>	<b>670,000</b>
<b>Xylenes, Total</b>	µg/L	<b>10,000</b>	<b>6,300</b>	<b>360,000</b>
1,1,1-Trichloroethane	µg/L	< 100 U	< 100 U	< 100 U
1,1,2-Trichloroethane	µg/L	< 100 U	< 100 U	< 100 U
Trichloroethene	µg/L	< 100 U	< 100 U	< 100 U
Vinyl Chloride	µg/L	< 100 U	< 100 U	< 100 U
<b>Total Volatile Organics</b>	µg/L	<b>3,941,100</b>	<b>2,126,540</b>	<b>3,534,000</b>

**Notes:**

<Blank> = Not measured  
**Bold** = Analyte Detected  
deg C = Degree Celcius  
mg/L = milligrams per liter  
mS/cm = Microsiemens per Centimeter  
mV = Millivolts  
NA = Standard not available or not currently established  
NTU = Nephelometric Turbidity Units  
ORP = Oxidation Reduction Potential  
std units = Standard units  
<U = Analyte not detected above corresponding Reporting Limit  
µg/L = micrograms per liter

**Table 4**  
**LNAPL Occurrence and Recovery**  
**Cell 6: LNAPL Recovery System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**

Well	LNAPL Occurrence During November (ft)	Total LNAPL Recovery Period		Total LNAPL Recovered thru November 24, 2010		LNAPL Recovered during November 2010	
		Begin	End	(gal)	(lbs) (a)	(gal)	(lbs) (a)
BP-MW-05	2.08 to 2.30	28-Jan	On-going (b)	1,910	13,995	360	2,638
RW-4	0.29 to 0.54	23-Jul	On-going (b)	217	1,590	87	637
BP-MW-08	0.52 to 0.92	8-Sep	On-going (b)	114	835	14	103
BP-MW-11	0.09 to 0.19	23-Jul	8-Sep	7.8	57	0	0
BP-MW-10	0.07 to 0.09	na	na	0	0	0	0
RW-1	0.17 to 0.25	28-Oct	On-going (c)	0.3	2	0.3	2
RW-2	0.04 to 0.04	na	na	0	0	0	0
RW-3	0.30 to 0.34	na	On-going (c)	0.2	1	0.2	1
RW-5	none	na	na	0	0	0	0
BP-MW-07	none	na	na	0	0	0	0
BP-MW-06	none	na	na	0	0	0	0
BP-MW-09	none	na	na	0	0	0	0
CO19-PZM004	none	na	na	0	0	0	0

**Table 5**  
**Depths to Water and LNAPL Thickness**  
**Cell 6: LNAPL Recovery System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**

Date	RW-1			RW-2			RW-3		
	Depth product	Depth to Water	Product Thickness	Depth product	Depth to Water	Product Thickness	Depth product	Depth to Water	Product Thickness
11/5/2010	10.86	11.03	0.17	11.25	11.29	0.04	8.92	9.22	0.30
11/11/2010	11.05	11.28	0.23	11.46	11.50	0.04	9.15	9.45	0.30
11/17/2010	11.21	11.41	0.20	--	--	--	9.30	9.65	0.35
11/24/2010	11.38	11.63	0.25	11.80	11.84	0.04	9.49	9.83	0.34
Date	RW-4			BP-MW-05			BP-MW-08		
	Depth product	Depth to Water	Product Thickness	Depth product	Depth to Water	Product Thickness	Depth product	Depth to Water	Product Thickness
11/5/2010	9.07	9.50	0.43	10.88	12.97	2.09	11.65	12.18	0.53
11/11/2010	9.28	9.82	0.54	10.70	13.00	2.30	11.85	12.20	0.35
11/17/2010	9.60	9.89	0.29	10.86	12.94	2.08	11.59	12.51	0.92
11/24/2010	9.63	10.15	0.52	11.05	13.21	2.16	12.20	12.72	0.52
Date	BP-MW-10			BP-MW-11					
	Depth product	Depth to Water	Product Thickness	Depth product	Depth to Water	Product Thickness			
11/5/2010	9.38	9.46	0.08	10.70	10.89	0.19			
11/11/2010	9.58	9.65	0.07	10.90	11.00	0.10			
11/17/2010	9.91	10.00	0.09	11.88	12.02	0.14			
11/24/2010	10.11	10.19	0.08	11.33	11.42	0.09			

Note: All depth and thickness data are reported in feet.

# Figures



**Legend**

◆ Existing Monitoring Well

**INTERIM MEASURES TREATMENT CELLS**

"Cell 1": Prototype AS/SVE System in Benzol Area

"Cell 2": AS/SVE and Dual Phase GW Treatment/Injection System in the Former Coal Storage Area

"Cell 3": AS/SVE System in the "Cove" Area

"Cell 4": In-Situ Anaerobic Bio-treatment System in the Coal Tar Area

"Cell 5": Groundwater Extraction/Treatment/Injection at the Turning Basin Area

"Cell 6": LNAPL Recovery at the Former Benzol Processing Area

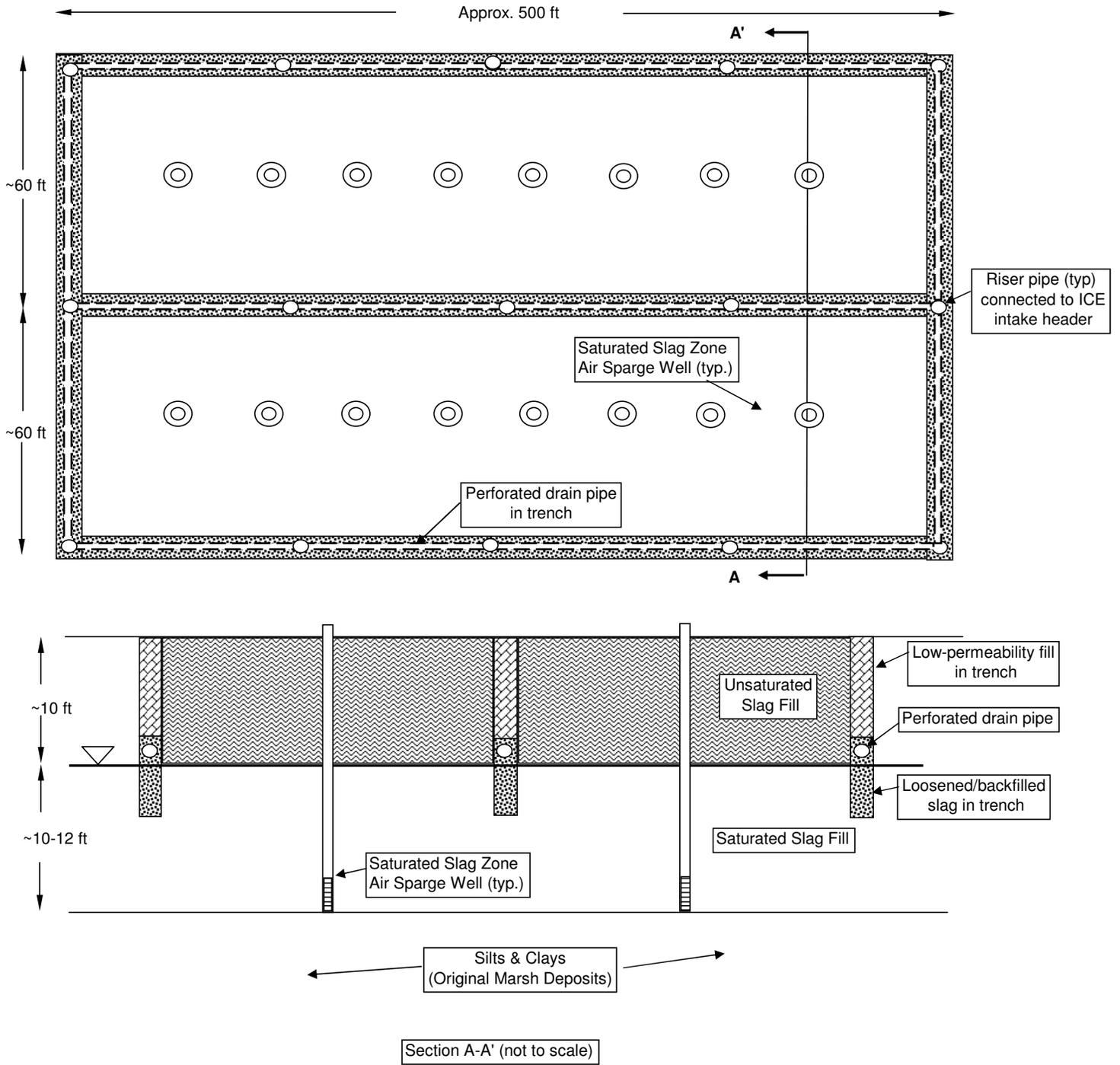


CLIENT: Sparrows Point	LOCATION: Baltimore, MD
DATE: 06/11/10	FILE: G:\Projects\SparrowsPoint\Projects\2010\CokeOven-and-CokePoint-6Prototype Cells_rev1.mxd
	
200 Orchard Ridge Drive Gaithersburg, MD 20878	

**Figure 1**  
Interim Measures Treatment Areas

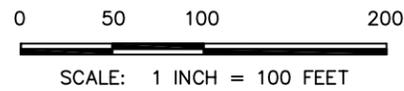
Image source: World Imagery, ESRI, GeoEye, 2009.

**Figure 2**  
**Schematic Diagram**  
**Cell 1: Prototype AS/SVE System in Former Benzol Processing Area**  
**Former Coke Oven Area Interim Remedial Measures**  
**Severstal Sparrows Point, LLC**



**LEGEND:**

- V-1  TRENCH VAPOR EXTRACTION RISER
- EXT-1  SVE PILOT TEST EXTRACTION WELL
- OBS-1  SVE PILOT TEST OBSERVATION WELL
- CO18-PZM006  EXISTING MONITORING WELL
- AS-2  AIR SPARGE WELL
-  VAPOR COLLECTION TRENCHES
-  FORMER STRUCTURES (DEMOLISHED)



**URS**  
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Job:	15302307.11001
Prepared by:	JES
Checked by:	JH
Date:	10/27/10

AS-BUILT LAYOUT PLAN  
 CELL 1: FORMER BENZOL PROCESSING AREA  
 SEVERSTAL SPARROWS POINT, LLC FACILITY  
 BALTIMORE, MARYLAND

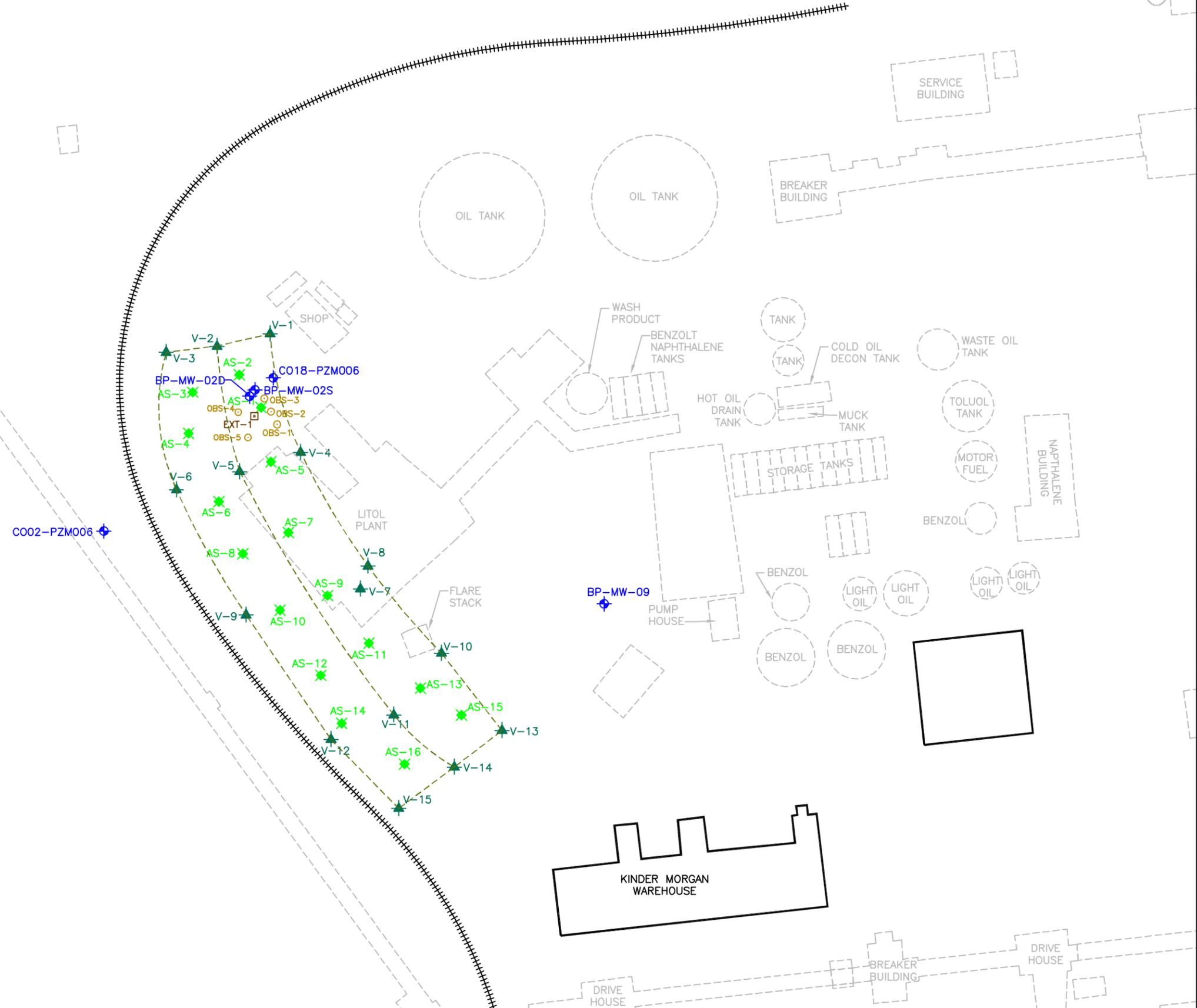




Image source: World Imagery, ESRI, GeoEye, 2009.

CLIENT	Sparrows Point		
LOCATION	Baltimore, MD		
 200 Orchard Ridge Drive Gaithersburg, MD 20878	GIS BY	JK	10/13/10
	CHK BY	BE	10/14/10
	PM	BE	10/14/10



**Figure 4**  
**Existing Cell 4 Wells**

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**LEGEND**

- Recent Recovery Well
- ⊕ Maryland Port Admin. Monitoring Well
- ⊕ Severstal Sitewide Assessment Monitoring Well
- - - LNAPL Boundary Estimated by EASTI (2009)

CLIENT Sparrows Point

LOCATION Baltimore, MD

**URS**  
 200 Orchard Ridge Drive  
 Gaithersburg, MD 20878

GIS BY	JK	10/13/10
CHK BY	BE	10/14/10
PM	BE	10/14/10



**Figure 5**  
**LNAPL Monitoring and Recovery Wells**

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# **Attachment 1**

**Attachment 1**  
**Summary of Data and Methodology Used to Evaluate Hydrocarbon Destruction**  
**Cell 1 Interim Measures**  
**Severstal-Sparrows Point, LLC**  
**November 2010**

As part of the continuing shakedown and operation of the prototype AS/SVE system in Former Benzol Processing Area (i.e., Cell 1), URS implemented several different air sparge and vapor extraction configurations to evaluate where the highest hydrocarbon vapor concentrations were located in order to maximize hydrocarbon recovery and destruction. Numerous influent soil gas samples were simultaneously tested with a photoionization detector (PID) while recording the ICE system-calculated vapor concentrations (as indicated on the ICE instrument panel). These simultaneous measurements were collected during various AS/SVE configurations and were used to evaluate system performance.

The ICE control system measures, calculates, and records various data every 15 minutes during operation. **Table A-1** summarizes ICE-recorded data during November 2010. Basically, the ICE-computed soil gas concentrations and BTU values are calculated by the control system logic based on a typical heat value of propane and the energy required by the engine to run at a specific rpm.

Soil gas flow rates (e.g., “well flow” in **Table A-1**) are also calculated by the ICE control system. In order to calibrate the ICE-calculated ppm values and soil gas flow rates, samples of influent soil gas were tested, as described above, and a differential pressure flow meter was used to measure actual soil gas flow rates entering the ICE. A representative summary of both ICE and field data from four days (November 16, 18, 22, and 30, 2010) is presented in **Tables A-2a, A-2b, A-2c, and A-2d**.

From the data in **Table A-1** and **A-2a-d**, there are differences between the ICE-calculated data and measured field data, specifically regarding vapor concentrations and influent soil gas flow rates. Therefore, correction factors were used to adjust the rate of benzene destruction for the month. The vapor concentration correction factor is defined as the ratio between ICE-calculated and PID data during the period in which there was continuous sparge/extraction (AS-1, AS-2, AS-5, V-1, V-2, V-4, and V-5). The influent flow correction factor is the ratio between measured flow (calculated from the observed differential pressure flow element, static pressure, and temperature of the influent soil gas) and the ICE-calculated well flow. The ICE:PID ratio is approximately 13 and the ratio between measured flow and ICE well flow is approximately 1.8. Using these correction ratios, the adjusted hydrocarbon removal rate for November is 2.56 lbs/hr (1,341 lbs for the month).

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

**NOVEMBER SUMMARY**      November 1, 2010 to November 30, 2010

<b>UNADJUSTED</b>			
Total Pounds =	9685.51	Avg. CFM =	37.29
Avg. Pounds/Hour =	18.48	Hrs Operation =	524.22
Avg. Pounds/Day =	443.4	Total Hrs =	720.00
		% Run =	72.81%
<b>ADJUSTED</b>			
Total Pounds =	1341.07	Avg. CFM =	67.12
Avg. Pounds/Hour =	2.56		
Avg. Pounds/Day =	61.4		

VOC	Molecular Weight (g/mol)
Benzene	78.11
Toluene	92.14
Ethylbenzene	106.17
Xylenes	106.16

Average (g/mol): **95.64**

ICE Adjusted Ratio = **13**

Adjusted Flow Ratio = **1.8**

The highest benzene concentrations were detected when sparging on AS-1, AS-2, AS-5 and extracting from V-1, V-2, V-4, V-5. Beginning November 11 (data highlighted in blue), the system was setup for continuous sparge/extraction on the above mentioned wells to maximize benzene recovery and destruction. The corrected ICE:PID and flow ratios were determined using the relatively consistent data observed from the continuous sparge/extraction on AS-1, AS-2, AS-3, V-1, V-2, V-3, V-4.

**Cell 1 Engine (11.5.10 to 12.1.10)**

Unit ID:	0
Controller S/N:	181
Software version:	833
Installed Flow Boxes:	Box1 - N

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/5/10 23:17																			
11/5/10 23:31	190400	14800	1,138	1640	238	16	34	61.2	17.21		1.82	1.82	0.25	0.25		476.00	476.00	14	14.00
11/5/10 23:46	297600	22500	1,731	1653	238	16	35	63	19.36		3.05	4.87	0.42	0.67		525.00	1001.00	15	29.00
11/6/10 0:01	312000	25000	1,923	1654	238	16	33	59.4	19.36		3.20	8.07	0.44	1.12		495.00	1496.00	15	44.00
11/6/10 0:16	371200	27200	2,092	1684	238	16	36	64.8	17.21		3.80	11.87	0.53	1.64		540.00	2036.00	15	59.00
11/6/10 0:31	187200	15500	1,192	1645	238	16	31	55.8	19.36		1.86	13.73	0.26	1.90		465.00	2501.00	15	74.00
11/6/10 0:46	372800	27400	2,108	1666	238	15	36	64.8	19.36		3.82	17.56	0.53	2.43		540.00	3041.00	15	89.00
11/6/10 1:01	316800	23300	1,792	1667	238	15	37	66.6	17.21		3.34	20.90	0.46	2.89		555.00	3596.00	15	104.00
11/6/10 1:16	296000	21700	1,669	1661	238	16	35	63	19.36		2.94	23.85	0.41	3.30		525.00	4121.00	15	119.00
11/6/10 1:31	188800	13500	1,038	1663	238	15	36	64.8	17.21		1.88	25.73	0.26	3.56		540.00	4661.00	15	134.00
11/6/10 1:46	388800	27700	2,131	1665	238	15	37	66.6	19.36		3.97	29.70	0.55	4.11		555.00	5216.00	15	149.00
11/6/10 2:01	296000	22300	1,715	1649	238	16	35	63	21.51		3.03	32.73	0.42	4.53		525.00	5741.00	15	164.00
11/6/10 2:16	376000	27600	2,123	1662	238	15	35	63	21.51		3.75	36.48	0.52	5.05		525.00	6266.00	15	179.00
11/6/10 2:31	19200	30600	2,354	1652	238	15	37	66.6	19.36		4.39	40.87	0.61	5.66		555.00	6821.00	15	194.00
11/6/10 2:46	297600	21800	1,677	1639	238	15	36	64.8	17.21		3.04	43.91	0.42	6.08		540.00	7361.00	15	209.00
11/6/10 3:01	307200	23200	1,785	1629	238	15	34	61.2	19.36		3.06	46.97	0.42	6.50		510.00	7871.00	15	224.00
11/6/10 3:16	94400	35000	2,692	1641	238	13	38	68.4	17.21		5.16	52.13	0.71	7.22		570.00	8441.00	15	239.00
11/6/10 3:31	48000	32700	2,515	1670	238	15	37	66.6	21.51		4.69	56.82	0.65	7.87		555.00	8996.00	15	254.00
11/6/10 3:46	273600	21200	1,631	1634	238	15	33	59.4	19.36		2.71	59.53	0.38	8.24		495.00	9491.00	15	269.00
11/6/10 4:01	393600	28900	2,223	1654	238	15	36	64.8	17.21		4.03	63.56	0.56	8.80		540.00	10031.00	15	284.00
11/6/10 4:16	326400	23900	1,838	1636	238	14	35	63	19.36		3.24	66.81	0.45	9.25		525.00	10556.00	15	299.00
11/6/10 4:31	249600	19400	1,492	1652	238	15	34	61.2	19.36		2.56	69.36	0.35	9.60		510.00	11066.00	15	314.00
11/6/10 4:46	238400	17600	1,354	1664	238	16	35	63	19.36		2.39	71.75	0.33	9.94		525.00	11591.00	15	329.00
11/6/10 5:01	355200	26000	2,000	1674	238	14	38	68.4	17.21		3.83	75.58	0.53	10.47		570.00	12161.00	15	344.00
11/6/10 5:16	360000	25700	1,977	1665	238	14	37	66.6	17.21		3.69	79.27	0.51	10.98		555.00	12716.00	15	359.00
11/6/10 5:31	222400	16800	1,292	1646	238	14	35	63	19.36		2.28	81.55	0.32	11.29		525.00	13241.00	15	374.00
11/6/10 5:46	249600	18800	1,446	1660	238	14	36	64.8	15.06		2.62	84.18	0.36	11.66		540.00	13781.00	15	389.00
11/6/10 6:01	73600	33600	2,585	1664	238	14	38	68.4	19.36		4.95	89.13	0.69	12.34		570.00	14351.00	15	404.00
11/6/10 6:16	118400	10900	838	1653	238	14	29	52.2	19.36		1.23	90.35	0.17	12.51		435.00	14786.00	15	419.00
11/6/10 6:30	281600	20600	1,585	1645	238	14	35	63	17.21		2.61	92.96	0.36	12.87		490.00	15276.00	14	433.00
11/6/10 6:45	83200	6300	485	1675	238	14	35	63	17.21		0.85	93.82	0.12	12.99		525.00	15801.00	15	448.00
11/6/10 7:00	224000	15200	1,169	1634	238	14	39	70.2	17.21		2.30	96.11	0.32	13.31		585.00	16386.00	15	463.00
11/6/10 7:15	289600	21300	1,638	1646	238	14	36	64.8	15.06		2.97	99.09	0.41	13.72		540.00	16926.00	15	478.00
11/6/10 7:30	276800	20300	1,562	1667	238	15	36	64.8	19.36		2.83	101.92	0.39	14.11		540.00	17466.00	15	493.00
11/6/10 7:45	83200	34200	2,631	1657	238	15	37	66.6	17.21		4.91	106.83	0.68	14.79		555.00	18021.00	15	508.00
11/6/10 8:00	321600	23000	1,769	1640	238	15	36	64.8	21.51		3.21	110.04	0.44	15.24		540.00	18561.00	15	523.00
11/6/10 8:15	257600	18900	1,454	1647	238	14	36	64.8	17.21		2.64	112.68	0.37	15.60		540.00	19101.00	15	538.00
11/6/10 8:30	395200	27500	2,115	1655	238	14	38	68.4	21.51		4.05	116.73	0.56	16.16		570.00	19671.00	15	553.00
11/6/10 8:45	6400	29700	2,285	1645	238	15	37	66.6	19.36		4.26	120.99	0.59	16.75		555.00	20226.00	15	568.00
11/6/10 9:00	68800	33300	2,562	1680	238	14	38	68.4	6.45		4.91	125.90	0.68	17.43		570.00	20796.00	15	583.00
11/6/10 9:15	182400	16100	1,238	1645	238	14	30	54	17.21		1.87	127.77	0.26	17.69		450.00	21246.00	15	598.00
11/6/10 9:30	364800	26800	2,062	1638	238	14	36	64.8	17.21		3.74	131.51	0.52	18.21		540.00	21786.00	15	613.00
11/6/10 9:45	329600	23500	1,808	1644	238	14	37	66.6	17.21		3.37	134.88	0.47	18.68		555.00	22341.00	15	628.00
11/6/10 10:00	236800	16900	1,300	1665	238	15	36	64.8	17.21		2.36	137.24	0.33	19.00		540.00	22881.00	15	643.00
11/6/10 10:15	196800	14500	1,115	1675	238	15	36	64.8	17.21		2.02	139.26	0.28	19.28		540.00	23421.00	15	658.00

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/6/10 10:30	388800	28500	2,192	1645	238	15	36	64.8	19.36		3.98	143.24	0.55	19.83		540.00	23961.00	15	673.00
11/6/10 10:45	358400	27900	2,146	1635	238	16	34	61.2	17.21		3.68	146.92	0.51	20.34		510.00	24471.00	15	688.00
11/6/10 11:00	52800	33000	2,538	1666	238	16	37	66.6	17.21		4.73	151.66	0.66	21.00		555.00	25026.00	15	703.00
11/6/10 11:15	297600	21800	1,677	1661	238	15	36	64.8	15.06		3.04	154.70	0.42	21.42		540.00	25566.00	15	718.00
11/6/10 11:30	28800	30500	2,346	1645	238	16	37	66.6	19.36		4.38	159.07	0.61	22.03		555.00	26121.00	15	733.00
11/6/10 11:45	379200	27000	2,077	1642	238	16	36	64.8	17.21		3.77	162.84	0.52	22.55		540.00	26661.00	15	748.00
11/6/10 12:00	121600	10100	777	1656	238	18	32	57.6	19.36		1.25	164.10	0.17	22.72		480.00	27141.00	15	763.00
11/6/10 12:15	145600	11700	900	1665	238	16	33	59.4	19.36		1.50	165.59	0.21	22.93		495.00	27636.00	15	778.00
11/6/10 12:30	249600	18900	1,454	1668	238	18	36	64.8	19.36		2.64	168.23	0.37	23.29		540.00	28176.00	15	793.00
11/6/10 12:45	131200	11300	869	1640	238	17	30	54	19.36		1.31	169.55	0.18	23.48		450.00	28626.00	15	808.00
11/6/10 13:00	340800	27300	2,100	1652	238	18	33	59.4	19.36		3.49	173.04	0.48	23.96		495.00	29121.00	15	823.00
11/6/10 13:15	404800	30500	2,346	1665	238	18	35	63	19.36		4.14	177.18	0.57	24.53		525.00	29646.00	15	838.00
11/6/10 13:29	350400	26400	2,031	1644	238	17	35	63	15.06		3.34	180.52	0.46	25.00		490.00	30136.00	14	852.00
11/6/10 13:44	1600	30200	2,323	1660	238	17	35	63	19.36		4.10	184.62	0.57	25.56		525.00	30661.00	15	867.00
11/6/10 13:59	292800	21400	1,646	1634	238	16	35	63	19.36		2.90	187.52	0.40	25.96		525.00	31186.00	15	882.00
11/6/10 14:14	347200	24700	1,900	1673	238	16	36	64.8	19.36		3.45	190.97	0.48	26.44		540.00	31726.00	15	897.00
11/6/10 14:29	99200	36400	2,800	1654	238	16	37	66.6	17.21		5.22	196.19	0.72	27.17		555.00	32281.00	15	912.00
11/6/10 14:44	328000	24700	1,900	1638	238	17	34	61.2	19.36		3.26	199.45	0.45	27.62		510.00	32791.00	15	927.00
11/6/10 14:59	200000	15100	1,162	1652	238	16	34	61.2	17.21		1.99	201.44	0.28	27.89		510.00	33301.00	15	942.00
11/6/10 15:14	396800	28300	2,177	1670	238	16	37	66.6	19.36		4.06	205.50	0.56	28.45		555.00	33856.00	15	957.00
11/6/10 15:29	398400	29200	2,246	1637	238	16	35	63	21.51		3.96	209.46	0.55	29.00		525.00	34381.00	15	972.00
11/6/10 15:44	395200	28200	2,169	1649	238	15	37	66.6	17.21		4.05	213.51	0.56	29.56		555.00	34936.00	15	987.00
11/6/10 15:59	196800	15300	1,177	1657	238	16	35	63	21.51		2.08	215.59	0.29	29.85		525.00	35461.00	15	1002.00
11/6/10 16:14	0	28500	2,192	1678	238	14	38	68.4	19.36		4.20	219.79	0.58	30.43		570.00	36031.00	15	1017.00
11/6/10 16:29	332800	24400	1,877	1657	238	15	37	66.6	19.36		3.50	223.29	0.48	30.92		555.00	36586.00	15	1032.00
11/6/10 16:44	56000	32300	2,485	1664	238	16	37	66.6	17.21		4.63	227.92	0.64	31.56		555.00	37141.00	15	1047.00
11/6/10 16:59	366400	26900	2,069	1668	238	16	38	68.4	19.36		3.96	231.88	0.55	32.11		570.00	37711.00	15	1062.00
11/6/10 17:14	123200	9900	762	1671	238	15	33	59.4	19.36		1.27	233.15	0.18	32.28		495.00	38206.00	15	1077.00
11/6/10 17:29	313600	23100	1,777	1635	238	16	36	64.8	17.21		3.22	236.38	0.45	32.73		540.00	38746.00	15	1092.00
11/6/10 17:44	353600	25200	1,938	1648	238	16	35	63	19.36		3.42	239.80	0.47	33.20		525.00	39271.00	15	1107.00
11/6/10 17:59	361600	25800	1,985	1639	238	15	37	66.6	19.36		3.70	243.50	0.51	33.71		555.00	39826.00	15	1122.00
11/6/10 18:14	14400	30200	2,323	1638	238	15	37	66.6	19.36		4.33	247.83	0.60	34.31		555.00	40381.00	15	1137.00
11/6/10 18:29	252800	19600	1,508	1642	238	15	36	64.8	19.36		2.74	250.57	0.38	34.69		540.00	40921.00	15	1152.00
11/6/10 18:44	284800	20900	1,608	1653	238	16	34	61.2	21.51		2.76	253.32	0.38	35.08		510.00	41431.00	15	1167.00
11/6/10 18:59	339200	25700	1,977	1651	238	16	34	61.2	19.36		3.39	256.71	0.47	35.54		510.00	41941.00	15	1182.00
11/6/10 19:14	68800	36100	2,777	1652	238	16	35	63	19.36		4.90	261.61	0.68	36.22		525.00	42466.00	15	1197.00
11/6/10 19:29	345600	26100	2,008	1666	238	16	36	64.8	17.21		3.64	265.25	0.50	36.73		540.00	43006.00	15	1212.00
11/6/10 19:44	371200	27300	2,100	1645	238	15	36	64.8	19.36		3.81	269.06	0.53	37.25		540.00	43546.00	15	1227.00
11/6/10 19:59	337600	24800	1,908	1655	238	16	36	64.8	21.51		3.46	272.52	0.48	37.73		540.00	44086.00	15	1242.00
11/6/10 20:14	296000	22400	1,723	1644	238	16	35	63	17.21		3.04	275.56	0.42	38.16		525.00	44611.00	15	1257.00
11/6/10 20:28	256000	19900	1,531	1658	238	15	34	61.2	19.36		2.45	278.01	0.34	38.49		476.00	45087.00	14	1271.00
11/6/10 20:43	358400	24900	1,915	1647	238	16	36	64.8	19.36		3.48	281.49	0.48	38.98		540.00	45627.00	15	1286.00
11/6/10 20:58	302400	22200	1,708	1652	238	16	35	63	17.21		3.01	284.50	0.42	39.39		525.00	46152.00	15	1301.00
11/6/10 21:13	129600	10700	823	1674	238	16	33	59.4	17.21		1.37	285.87	0.19	39.58		495.00	46647.00	15	1316.00
11/6/10 21:28	324800	23200	1,785	1655	238	16	35	63	19.36		3.15	289.02	0.44	40.02		525.00	47172.00	15	1331.00
11/6/10 21:43	288000	22400	1,723	1647	238	17	35	63	17.21		3.04	292.06	0.42	40.44		525.00	47697.00	15	1346.00
11/6/10 21:58	241600	18700	1,438	1668	238	16	36	64.8	19.36		2.61	294.67	0.36	40.80		540.00	48237.00	15	1361.00
11/6/10 22:13	57600	35300	2,715	1642	238	16	36	64.8	17.21		4.93	299.60	0.68	41.48		540.00	48777.00	15	1376.00
11/6/10 22:28	376000	30100	2,315	1656	238	16	35	63	19.36		4.08	303.68	0.57	42.05		525.00	49302.00	15	1391.00
11/6/10 22:43	11200	31800	2,446	1663	238	16	35	63	19.36		4.32	308.00	0.60	42.65		525.00	49827.00	15	1406.00
11/6/10 22:58	403200	29600	2,277	1647	238	16	36	64.8	21.51		4.13	312.13	0.57	43.22		540.00	50367.00	15	1421.00
11/6/10 23:13	28800	32200	2,477	1646	238	15	36	64.8	19.36		4.49	316.62	0.62	43.84		540.00	50907.00	15	1436.00
11/6/10 23:28	395200	29000	2,231	1637	238	15	35	63	17.21		3.94	320.56	0.54	44.39		525.00	51432.00	15	1451.00
11/6/10 23:43	392000	28000	2,154	1666	238	14	38	68.4	19.36		4.13	324.68	0.57	44.96		570.00	52002.00	15	1466.00
11/6/10 23:58	336000	24700	1,900	1652	238	14	37	66.6	15.06		3.54	328.23	0.49	45.45		555.00	52557.00	15	1481.00
11/7/10 0:13	216000	16800	1,292	1652	238	15	35	63	15.06		2.28	330.51	0.32	45.76		525.00	53082.00	15	1496.00
11/7/10 0:28	308800	22000	1,692	1660	238	14	37	66.6	17.21		3.16	333.66	0.44	46.20		555.00	53637.00	15	1511.00
11/7/10 0:43	84800	6600	508	1654	238	15	34	61.2	17.21		0.87	334.53	0.12	46.32		510.00	54147.00	15	1526.00
11/7/10 0:58	273600	20100	1,546	1668	238	15	36	64.8	17.21		2.81	337.34	0.39	46.71		540.00	54687.00	15	1541.00
11/7/10 1:13	384000	27400	2,108	1627	238	14	37	66.6	17.21		3.93	341.27	0.54	47.25		555.00	55242.00	15	1556.00
11/7/10 1:28	339200	24200	1,862	1640	238	15	36	64.8	19.36		3.38	344.65	0.47	47.72		540.00	55782.00	15	1571.00
11/7/10 1:43	379200	27100	2,085	1646	238	15	37	66.6	19.36		3.89	348.54	0.54	48.26		555.00	56337.00	15	1586.00
11/7/10 1:58	392000	28800	2,215	1640	238	15	36	64.8	15.06										

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/7/10 2:43	176000	14000	1,077	1640	238	15	33	59.4	19.36		1.79	360.96	0.25	49.98		495.00	58452.00	15	1646.00
11/7/10 2:58	46400	4100	315	1666	238	15	31	55.8	17.21		0.49	361.45	0.07	50.05		465.00	58917.00	15	1661.00
11/7/10 3:13	408000	30800	2,369	1661	238	16	36	64.8	15.06		4.30	365.75	0.60	50.64		540.00	59457.00	15	1676.00
11/7/10 3:27	145600	39600	3,046	1650	238	15	36	64.8	19.36		5.16	370.91	0.71	51.36		504.00	59961.00	14	1690.00
11/7/10 3:42	54400	34000	2,615	1630	238	16	35	63	19.36		4.61	375.52	0.64	52.00		525.00	60486.00	15	1705.00
11/7/10 3:57	323200	24400	1,877	1634	238	15	35	63	19.36		3.31	378.84	0.46	52.45		525.00	61011.00	15	1720.00
11/7/10 4:12	36800	33700	2,592	1670	238	16	35	63	21.51		4.57	383.41	0.63	53.09		525.00	61536.00	15	1735.00
11/7/10 4:27	65600	33100	2,546	1655	238	15	36	64.8	19.36		4.62	388.03	0.64	53.73		540.00	62076.00	15	1750.00
11/7/10 4:42	48000	32700	2,515	1669	238	15	36	64.8	19.36		4.56	392.59	0.63	54.36		540.00	62616.00	15	1765.00
11/7/10 4:57	9600	30000	2,308	1658	238	15	36	64.8	19.36		4.19	396.78	0.58	54.94		540.00	63156.00	15	1780.00
11/7/10 5:12	70400	34300	2,638	1655	238	14	37	66.6	21.51		4.92	401.70	0.68	55.62		555.00	63711.00	15	1795.00
11/7/10 5:27	372800	26600	2,046	1647	238	14	36	64.8	19.36		3.71	405.42	0.51	56.13		540.00	64251.00	15	1810.00
11/7/10 5:42	308800	22700	1,746	1648	238	14	36	64.8	19.36		3.17	408.58	0.44	56.57		540.00	64791.00	15	1825.00
11/7/10 5:57	392000	29600	2,277	1659	238	14	35	63	17.21		4.02	412.60	0.56	57.13		525.00	65316.00	15	1840.00
11/7/10 6:12	220800	16600	1,277	1651	238	14	35	63	17.21		2.25	414.85	0.31	57.44		525.00	65841.00	15	1855.00
11/7/10 6:27	264000	20500	1,577	1671	238	14	35	63	19.36		2.78	417.64	0.39	57.83		525.00	66366.00	15	1870.00
11/7/10 6:42	387200	28500	2,192	1665	238	15	37	66.6	17.21		4.09	421.73	0.57	58.39		555.00	66921.00	15	1885.00
11/7/10 6:57	80000	36900	2,838	1660	238	14	36	64.8	19.36		5.15	426.88	0.71	59.11		540.00	67461.00	15	1900.00
11/7/10 7:12	384000	28200	2,169	1659	238	14	36	64.8	19.36		3.94	430.81	0.55	59.65		540.00	68001.00	15	1915.00
11/7/10 7:27	284800	20900	1,608	1642	238	14	35	63	19.36		2.84	433.65	0.39	60.04		525.00	68526.00	15	1930.00
11/7/10 7:42	118400	37600	2,892	1656	238	14	37	66.6	15.06		5.39	439.04	0.75	60.79		555.00	69081.00	15	1945.00
11/7/10 7:57	313600	22300	1,715	1666	238	13	37	66.6	17.21		3.20	442.24	0.44	61.23		555.00	69636.00	15	1960.00
11/7/10 8:12	64000	33000	2,538	1649	238	13	38	68.4	17.21		4.86	447.10	0.67	61.91		570.00	70206.00	15	1975.00
11/7/10 8:27	4800	29600	2,277	1644	238	13	36	64.8	21.51		4.13	451.24	0.57	62.48		540.00	70746.00	15	1990.00
11/7/10 8:42	62400	33700	2,592	1683	238	14	37	66.6	19.36		4.83	456.07	0.67	63.15		555.00	71301.00	15	2005.00
11/7/10 8:57	256000	18800	1,446	1661	238	13	36	64.8	19.36		2.62	458.70	0.36	63.51		540.00	71841.00	15	2020.00
11/7/10 9:12	347200	25500	1,962	1650	238	14	36	64.8	19.36		3.56	462.26	0.49	64.00		540.00	72381.00	15	2035.00
11/7/10 9:27	347200	25400	1,954	1642	238	14	36	64.8	17.21		3.55	465.80	0.49	64.50		540.00	72921.00	15	2050.00
11/7/10 9:42	377600	26900	2,069	1667	238	12	38	68.4	19.36		3.96	469.76	0.55	65.04		570.00	73491.00	15	2065.00
11/7/10 9:57	22400	30100	2,315	1671	238	12	39	70.2	17.21		4.55	474.32	0.63	65.67		585.00	74076.00	15	2080.00
11/7/10 10:12	376000	27500	2,115	1621	238	13	37	66.6	19.36		3.95	478.26	0.55	66.22		555.00	74631.00	15	2095.00
11/7/10 10:26	8000	28200	2,169	1660	238	12	39	70.2	19.36		3.98	482.24	0.55	66.77		546.00	75177.00	14	2109.00
11/7/10 10:41	396800	29200	2,246	1663	238	14	36	64.8	21.51		4.08	486.32	0.56	67.34		540.00	75717.00	15	2124.00
11/7/10 10:56	392000	27300	2,100	1665	238	13	38	68.4	17.21		4.02	490.34	0.56	67.89		570.00	76287.00	15	2139.00
11/7/10 11:11	41600	32300	2,485	1646	238	14	38	68.4	17.21		4.76	495.10	0.66	68.55		570.00	76857.00	15	2154.00
11/7/10 11:26	140800	39300	3,023	1660	238	15	36	64.8	19.36		5.49	500.59	0.76	69.31		540.00	77397.00	15	2169.00
11/7/10 11:41	371200	26500	2,038	1625	238	14	36	64.8	21.51		3.70	504.28	0.51	69.82		540.00	77937.00	15	2184.00
11/7/10 11:56	316800	23300	1,792	1669	238	14	36	64.8	21.51		3.25	507.54	0.45	70.27		540.00	78477.00	15	2199.00
11/7/10 12:11	72000	5300	408	1642	238	14	35	63	17.21		0.72	508.26	0.10	70.37		525.00	79002.00	15	2214.00
11/7/10 12:26	401600	29500	2,269	1655	238	15	37	66.6	15.06		4.23	512.49	0.59	70.96		555.00	79557.00	15	2229.00
11/7/10 12:41	67200	34000	2,615	1651	238	15	37	66.6	21.51		4.88	517.37	0.68	71.64		555.00	80112.00	15	2244.00
11/7/10 12:56	54400	31400	2,415	1681	238	14	39	70.2	19.36		4.75	522.11	0.66	72.29		585.00	80697.00	15	2259.00
11/7/10 13:11	307200	19800	1,523	1673	238	15	36	64.8	19.36		2.76	524.88	0.38	72.68		540.00	81237.00	15	2274.00
11/7/10 13:26	276800	20900	1,608	1664	238	15	36	64.8	19.36		2.92	527.80	0.40	73.08		540.00	81777.00	15	2289.00
11/7/10 13:41	168000	12000	923	1650	238	15	37	66.6	19.36		1.72	529.52	0.24	73.32		555.00	82332.00	15	2304.00
11/7/10 13:56	326400	22700	1,746	1657	238	15	38	68.4	19.36		3.34	532.86	0.46	73.78		570.00	82902.00	15	2319.00
11/7/10 14:11	305600	22400	1,723	1666	238	15	37	66.6	17.21		3.21	536.08	0.44	74.23		555.00	83457.00	15	2334.00
11/7/10 14:26	112000	8400	646	1661	238	15	35	63	17.21		1.14	537.22	0.16	74.38		525.00	83982.00	15	2349.00
11/7/10 14:41	174400	13600	1,046	1665	238	15	35	63	15.06		1.85	539.06	0.26	74.64		525.00	84507.00	15	2364.00
11/7/10 14:56	336000	23900	1,838	1628	238	14	37	66.6	21.51		3.43	542.49	0.47	75.11		555.00	85062.00	15	2379.00
11/7/10 15:11	48000	32700	2,515	1644	238	15	37	66.6	17.21		4.69	547.18	0.65	75.76		555.00	85617.00	15	2394.00
11/7/10 15:26	393600	27300	2,100	1646	238	15	36	64.8	17.21		3.81	550.99	0.53	76.29		540.00	86157.00	15	2409.00
11/7/10 15:41	222400	16300	1,254	1659	238	15	36	64.8	19.36		2.28	553.27	0.32	76.61		540.00	86697.00	15	2424.00
11/7/10 15:56	24000	31000	2,385	1654	238	15	37	66.6	19.36		4.45	557.72	0.62	77.22		555.00	87252.00	15	2439.00
11/7/10 16:11	227200	17700	1,362	1665	238	15	33	59.4	17.21		2.26	559.98	0.31	77.54		495.00	87747.00	15	2454.00
11/7/10 16:26	284800	20300	1,562	1645	238	14	37	66.6	19.36		2.91	562.89	0.40	77.94		555.00	88302.00	15	2469.00
11/7/10 16:41	406400	29000	2,231	1672	238	15	35	63	17.21		3.94	566.83	0.54	78.48		525.00	88827.00	15	2484.00
11/7/10 16:56	27200	32100	2,469	1644	238	15	36	64.8	19.36		4.48	571.31	0.62	79.10		540.00	89367.00	15	2499.00
11/7/10 17:10	392000	28800	2,215	1639	238	15	36	64.8	17.21		3.75	575.06	0.52	79.62		504.00	89871.00	14	2513.00
11/7/10 17:25	180800	14000	1,077	1657	238	15	34	61.2	21.51		1.85	576.91	0.26	79.88		510.00	90381.00	15	2528.00
11/7/10 17:40	292800	21500	1,654	1648	238	15	35	63	19.36		2.92	579.82	0.40	80.28		525.00	90906.00	15	2543.00
11/7/10 17:55	235200	18300	1,408	1650	238	16	33	59.4	15.06		2.34	582.17	0.32	80.61		495.00	91401.00	15	2558.00
11/7/10 18:10	329600	24900	1,915	1643	238	15	36	64.8	19.36										

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/7/10 18:55	163200	11700	900	1659	238	15	36	64.8	19.36		1.63	593.71	0.23	82.21		540.00	93546.00	15	2618.00
11/7/10 19:10	169600	13200	1,015	1652	238	15	35	63	19.36		1.79	595.50	0.25	82.45		525.00	94071.00	15	2633.00
11/7/10 19:25	387200	28400	2,185	1673	238	16	35	63	19.36		3.85	599.36	0.53	82.99		525.00	94596.00	15	2648.00
11/7/10 19:40	315200	24400	1,877	1662	238	17	35	63	17.21		3.31	602.67	0.46	83.45		525.00	95121.00	15	2663.00
11/7/10 19:55	372800	27300	2,100	1650	238	16	35	63	19.36		3.70	606.37	0.51	83.96		525.00	95646.00	15	2678.00
11/7/10 20:10	96000	38100	2,931	1651	238	16	35	63	19.36		5.17	611.54	0.72	84.68		525.00	96171.00	15	2693.00
11/7/10 20:25	339200	25700	1,977	1673	238	15	36	64.8	19.36		3.59	615.13	0.50	85.17		540.00	96711.00	15	2708.00
11/7/10 20:40	353600	26700	2,054	1648	238	17	33	59.4	17.21		3.42	618.55	0.47	85.65		495.00	97206.00	15	2723.00
11/7/10 20:55	38400	33800	2,600	1647	238	16	35	63	17.21		4.59	623.14	0.64	86.28		525.00	97731.00	15	2738.00
11/7/10 21:10	86400	37400	2,877	1638	238	16	35	63	19.36		5.08	628.21	0.70	86.98		525.00	98256.00	15	2753.00
11/7/10 21:25	249600	18900	1,454	1663	238	16	35	63	19.36		2.56	630.78	0.36	87.34		525.00	98781.00	15	2768.00
11/7/10 21:40	116800	38600	2,969	1647	238	16	36	64.8	17.21		5.39	636.16	0.75	88.08		540.00	99321.00	15	2783.00
11/7/10 21:55	206400	16100	1,238	1646	238	17	33	59.4	21.51		2.06	638.22	0.29	88.37		495.00	99816.00	15	2798.00
11/7/10 22:10	284800	22800	1,754	1647	238	18	33	59.4	17.21		2.92	641.14	0.40	88.77		495.00	100311.00	15	2813.00
11/7/10 22:25	254400	19800	1,523	1655	238	16	34	61.2	17.21		2.61	643.75	0.36	89.13		510.00	100821.00	15	2828.00
11/7/10 22:40	4800	32200	2,477	1669	238	17	34	61.2	19.36		4.25	648.00	0.59	89.72		510.00	101331.00	15	2843.00
11/7/10 22:55	240000	19200	1,477	1678	238	17	33	59.4	19.36		2.46	650.45	0.34	90.06		495.00	101826.00	15	2858.00
11/7/10 23:10	70400	36200	2,785	1660	238	17	35	63	17.21		4.91	655.37	0.68	90.74		525.00	102351.00	15	2873.00
11/7/10 23:25	6400	31400	2,415	1687	238	16	36	64.8	17.21		4.38	659.75	0.61	91.35		540.00	102891.00	15	2888.00
11/7/10 23:40	0	31800	2,446	1647	238	18	34	61.2	19.36		4.19	663.94	0.58	91.93		510.00	103401.00	15	2903.00
11/7/10 23:55	185600	15400	1,185	1645	238	19	30	54	19.36		1.79	665.73	0.25	92.18		450.00	103851.00	15	2918.00
11/8/10 0:09	283200	24100	1,854	1655	238	19	31	55.8	19.36		2.70	668.44	0.37	92.55		434.00	104285.00	14	2932.00
11/8/10 0:24	51200	34800	2,677	1641	238	17	35	63	19.36		4.72	673.16	0.65	93.21		525.00	104810.00	15	2947.00
11/8/10 0:39	297600	23200	1,785	1647	238	17	32	57.6	19.36		2.88	676.04	0.40	93.61		480.00	105290.00	15	2962.00
11/8/10 0:54	102400	8400	646	1652	238	18	31	55.8	17.21		1.01	677.05	0.14	93.75		465.00	105755.00	15	2977.00
11/8/10 1:09	233600	19900	1,531	1651	238	18	32	57.6	19.36		2.47	679.52	0.34	94.09		480.00	106235.00	15	2992.00
11/8/10 1:24	148800	12700	977	1685	238	18	31	55.8	17.21		1.53	681.04	0.21	94.30		465.00	106700.00	15	3007.00
11/8/10 1:39	25600	34900	2,685	1650	238	17	33	59.4	21.51		4.47	685.51	0.62	94.92		495.00	107195.00	15	3022.00
11/8/10 1:54	208000	16600	1,277	1655	238	17	34	61.2	17.21		2.19	687.70	0.30	95.22		510.00	107705.00	15	3037.00
11/8/10 2:09	288000	20100	1,546	1638	238	18	34	61.2	17.21		2.65	690.35	0.37	95.59		510.00	108215.00	15	3052.00
11/8/10 2:24	97600	7900	608	1672	238	16	33	59.4	17.21		1.01	691.36	0.14	95.73		495.00	108710.00	15	3067.00
11/8/10 2:39	396800	30800	2,369	1632	238	18	33	59.4	19.36		3.94	695.30	0.55	96.27		495.00	109205.00	15	3082.00
11/8/10 2:54	83200	7500	577	1660	238	17	29	52.2	17.21		0.84	696.14	0.12	96.39		435.00	109640.00	15	3097.00
11/8/10 3:09	46400	33400	2,569	1642	238	17	34	61.2	17.21		4.40	700.55	0.61	97.00		510.00	110150.00	15	3112.00
11/8/10 3:24	366400	27600	2,123	1659	238	17	34	61.2	17.21		3.64	704.19	0.50	97.50		510.00	110660.00	15	3127.00
11/8/10 3:39	244800	19000	1,462	1664	238	17	34	61.2	19.36		2.50	706.69	0.35	97.85		510.00	111170.00	15	3142.00
11/8/10 3:54	308800	25500	1,962	1659	238	16	33	59.4	19.36		3.26	709.95	0.45	98.30		495.00	111665.00	15	3157.00
11/8/10 4:09	304000	22900	1,762	1669	238	16	35	63	19.36		3.11	713.06	0.43	98.73		525.00	112190.00	15	3172.00
11/8/10 4:24	216000	17800	1,369	1658	238	17	34	61.2	19.36		2.35	715.41	0.32	99.06		510.00	112700.00	15	3187.00
11/8/10 4:39	390400	29400	2,262	1624	238	16	34	61.2	21.51		3.88	719.28	0.54	99.59		510.00	113210.00	15	3202.00
11/8/10 4:54	284800	22200	1,708	1650	238	16	36	64.8	19.36		3.10	722.38	0.43	100.02		540.00	113750.00	15	3217.00
11/8/10 5:09	40000	34900	2,685	1667	238	17	34	61.2	17.21		4.60	726.98	0.64	100.66		510.00	114260.00	15	3232.00
11/8/10 5:24	321600	24300	1,869	1642	238	16	34	61.2	19.36		3.20	730.19	0.44	101.10		510.00	114770.00	15	3247.00
11/8/10 5:39	307200	24600	1,892	1636	238	17	32	57.6	19.36		3.05	733.24	0.42	101.53		480.00	115250.00	15	3262.00
11/8/10 5:54	46400	4200	323	1642	238	18	27	48.6	19.36		0.44	733.68	0.06	101.59		405.00	115655.00	15	3277.00
11/8/10 6:09	339200	28000	2,154	1657	238	18	33	59.4	19.36		3.58	737.26	0.50	102.08		495.00	116150.00	15	3292.00
11/8/10 6:24	369600	27900	2,146	1646	238	17	33	59.4	19.36		3.57	740.83	0.49	102.58		495.00	116645.00	15	3307.00
11/8/10 6:39	187200	15500	1,192	1652	238	18	30	54	21.51		1.80	742.63	0.25	102.83		450.00	117095.00	15	3322.00
11/8/10 6:54	387200	31000	2,385	1654	238	16	35	63	21.51		4.21	746.84	0.58	103.41		525.00	117620.00	15	3337.00
11/8/10 7:08	361600	28000	2,154	1654	238	17	34	61.2	17.21		3.45	750.29	0.48	103.89		476.00	118096.00	14	3351.00
11/8/10 7:23	129600	10400	800	1654	238	17	32	57.6	19.36		1.29	751.58	0.18	104.06		480.00	118576.00	15	3366.00
11/8/10 7:38	353600	28300	2,177	1620	238	17	33	59.4	21.51		3.62	755.20	0.50	104.57		495.00	119071.00	15	3381.00
11/8/10 7:53	372800	28900	2,223	1647	238	17	36	64.8	19.36		4.03	759.23	0.56	105.12		540.00	119611.00	15	3396.00
11/8/10 8:08	283200	22700	1,746	1650	238	18	33	59.4	17.21		2.90	762.14	0.40	105.53		495.00	120106.00	15	3411.00
11/8/10 8:23	377600	29300	2,254	1645	238	18	33	59.4	17.21		3.75	765.89	0.52	106.05		495.00	120601.00	15	3426.00
11/8/10 8:38	406400	32600	2,508	1668	238	18	33	59.4	17.21		4.17	770.06	0.58	106.62		495.00	121096.00	15	3441.00
11/8/10 8:53	272000	22400	1,723	1641	238	19	31	55.8	19.36		2.69	772.75	0.37	107.00		465.00	121561.00	15	3456.00
11/8/10 9:08	324800	25300	1,946	1666	238	18	33	59.4	17.21		3.24	775.99	0.45	107.44		495.00	122056.00	15	3471.00
11/8/10 9:23	243200	19400	1,492	1679	238	18	34	61.2	17.21		2.56	778.55	0.35	107.80		510.00	122566.00	15	3486.00
11/8/10 9:38	299200	23200	1,785	1644	238	19	33	59.4	19.36		2.97	781.51	0.41	108.21		495.00	123061.00	15	3501.00
11/8/10 9:53	43200	37300	2,869	1659	238	21	31	55.8	19.36		4.48	786.00	0.62	108.83		465.00	123526.00	15	3516.00
11/8/10 10:08	385600	34000	2,615	1664	238	20	30	54	19.36		3.96	789.95	0.55	109.38		450.00	123976.00	15	3531.00
11/8/10 10:22	286400	23700	1,823																

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/8/10 11:23	112000	149700	11,515	1649	216	25	0	0	0		0.00	792.75	0.00	109.77		0.00	124447.00	15	3561.00
11/8/10 11:38	281600	121900	9,377	1676	430	30	15	27	0		7.09	799.84	0.98	110.75		225.00	124672.00	15	3576.00
11/8/10 11:53	179200	136800	10,523	1655	126	31	21	37.8	8.6		11.14	810.98	1.54	112.29		315.00	124987.00	15	3591.00
11/8/10 12:08	171200	104700	8,054	1656	238	28	25	45	12.91		10.15	821.13	1.41	113.69		375.00	125362.00	15	3606.00
11/8/10 12:23	376000	98700	7,592	1667	238	27	23	41.4	15.06		8.80	829.93	1.22	114.91		345.00	125707.00	15	3621.00
11/8/10 12:38	116800	91600	7,046	1656	238	23	27	48.6	19.36		9.59	839.52	1.33	116.24		405.00	126112.00	15	3636.00
11/8/10 12:53	179200	84900	6,531	1667	238	20	33	59.4	17.21		10.86	850.38	1.50	117.75		495.00	126607.00	15	3651.00
11/8/10 13:08	113600	79500	6,115	1669	238	19	32	57.6	17.21		9.86	860.25	1.37	119.11		480.00	127087.00	15	3666.00
11/8/10 13:23	179200	83600	6,431	1646	238	19	33	59.4	19.36		10.70	870.95	1.48	120.59		495.00	127582.00	15	3681.00
11/8/10 13:38	179200	74500	5,731	1636	238	17	35	63	17.21		10.11	881.06	1.40	121.99		525.00	128107.00	15	3696.00
11/8/10 13:53	179200	74200	5,708	1660	238	17	35	63	19.36		10.07	891.13	1.39	123.39		525.00	128632.00	15	3711.00
11/8/10 14:08	179200	75600	5,815	1660	238	18	35	63	17.21		10.26	901.39	1.42	124.81		525.00	129157.00	15	3726.00
11/8/10 14:23	179200	72200	5,554	1649	238	15	37	66.6	17.21		10.36	911.74	1.43	126.24		555.00	129712.00	15	3741.00
11/8/10 14:38	100800	67400	5,185	1640	238	16	36	64.8	17.21		9.41	921.15	1.30	127.54		540.00	130252.00	15	3756.00
11/8/10 14:53	129600	69600	5,354	1642	238	16	36	64.8	17.21		9.72	930.87	1.35	128.89		540.00	130792.00	15	3771.00
11/8/10 15:08	179200	69400	5,338	1627	238	16	37	66.6	17.21		9.96	940.82	1.38	130.27		555.00	131347.00	15	3786.00
11/8/10 15:23	97600	65400	5,031	1669	238	15	37	66.6	17.21		9.38	950.21	1.30	131.57		555.00	131902.00	15	3801.00
11/8/10 15:38	369600	58800	4,523	1677	238	15	36	64.8	17.21		8.21	958.41	1.14	132.70		540.00	132442.00	15	3816.00
11/8/10 15:53	179200	73600	5,662	1663	238	14	39	70.2	17.21		11.13	969.54	1.54	134.24		585.00	133027.00	15	3831.00
11/8/10 16:08	132800	66200	5,092	1686	238	13	39	70.2	17.21		10.01	979.56	1.39	135.63		585.00	133612.00	15	3846.00
11/8/10 16:23	334400	53100	4,085	1671	238	12	38	68.4	17.21		7.82	987.38	1.08	136.71		570.00	134182.00	15	3861.00
11/8/10 16:38	179200	71300	5,485	1659	238	13	39	70.2	17.21		10.78	998.16	1.49	138.21		585.00	134767.00	15	3876.00
11/8/10 16:53	140800	61800	4,754	1668	238	11	41	73.8	17.21		9.82	1007.99	1.36	139.57		615.00	135382.00	15	3891.00
11/8/10 17:08	179200	81000	6,231	1642	238	14	40	72	17.21		12.56	1020.55	1.74	141.31		600.00	135982.00	15	3906.00
11/8/10 17:23	124800	63900	4,915	1657	238	12	39	70.2	19.36		9.66	1030.21	1.34	142.64		585.00	136567.00	15	3921.00
11/8/10 17:38	179200	69300	5,331	1645	238	11	41	73.8	17.21		11.02	1041.23	1.53	144.17		615.00	137182.00	15	3936.00
11/8/10 17:52	150400	64000	4,923	1655	238	11	41	73.8	17.21		9.50	1050.73	1.31	145.49		574.00	137756.00	14	3950.00
11/8/10 18:07	336000	50500	3,885	1654	238	10	39	70.2	17.21		7.64	1058.36	1.06	146.54		585.00	138341.00	15	3965.00
11/8/10 18:22	67200	60100	4,623	1652	238	10	40	72	19.36		9.32	1067.68	1.29	147.83		600.00	138941.00	15	3980.00
11/8/10 18:37	99200	60700	4,669	1652	238	11	39	70.2	19.36		9.18	1076.86	1.27	149.10		585.00	139526.00	15	3995.00
11/8/10 18:52	192000	41800	3,215	1673	238	10	39	70.2	17.21		6.32	1083.18	0.88	149.98		585.00	140111.00	15	4010.00
11/8/10 19:07	105600	62700	4,823	1658	238	11	40	72	19.36		9.72	1092.91	1.35	151.33		600.00	140711.00	15	4025.00
11/8/10 19:22	38400	56600	4,354	1663	238	10	41	73.8	19.36		9.00	1101.91	1.25	152.57		615.00	141326.00	15	4040.00
11/8/10 19:37	179200	74500	5,731	1669	238	11	42	75.6	19.36		12.13	1114.04	1.68	154.25		630.00	141956.00	15	4055.00
11/8/10 19:52	155200	61300	4,715	1639	238	10	41	73.8	19.36		9.75	1123.78	1.35	155.60		615.00	142571.00	15	4070.00
11/8/10 20:07	131200	59700	4,592	1674	238	11	42	75.6	17.21		9.72	1133.51	1.35	156.95		630.00	143201.00	15	4085.00
11/8/10 20:22	124800	60800	4,677	1666	238	11	41	73.8	17.21		9.67	1143.17	1.34	158.29		615.00	143816.00	15	4100.00
11/8/10 20:37	137600	64700	4,977	1650	238	12	39	70.2	17.21		9.78	1152.96	1.35	159.64		585.00	144401.00	15	4115.00
11/8/10 20:52	62400	40200	3,092	1665	238	12	31	55.8	19.36		4.83	1157.79	0.67	160.31		465.00	144866.00	15	4130.00
11/8/10 21:07	179200	67800	5,215	1629	238	11	40	72	19.36		10.52	1168.30	1.46	161.77		600.00	145466.00	15	4145.00
11/8/10 21:22	179200	67400	5,185	1674	238	11	41	73.8	21.51		10.71	1179.02	1.48	163.25		615.00	146081.00	15	4160.00
11/8/10 21:37	179200	65100	5,008	1660	238	10	43	77.4	19.36		10.85	1189.87	1.50	164.75		645.00	146726.00	15	4175.00
11/8/10 21:52	179200	66100	5,085	1655	238	9	42	75.6	19.36		10.76	1200.64	1.49	166.24		630.00	147356.00	15	4190.00
11/8/10 22:07	179200	67300	5,177	1654	238	10	42	75.6	19.36		10.96	1211.60	1.52	167.76		630.00	147986.00	15	4205.00
11/8/10 22:22	179200	67600	5,200	1659	238	10	42	75.6	19.36		11.01	1222.61	1.52	169.28		630.00	148616.00	15	4220.00
11/8/10 22:37	136000	60100	4,623	1637	238	10	41	73.8	19.36		9.55	1232.16	1.32	170.61		615.00	149231.00	15	4235.00
11/8/10 22:52	179200	65500	5,038	1646	238	11	41	73.8	17.21		10.41	1242.57	1.44	172.05		615.00	149846.00	15	4250.00
11/8/10 23:07	179200	66900	5,146	1651	238	10	42	75.6	19.36		10.89	1253.47	1.51	173.56		630.00	150476.00	15	4265.00
11/8/10 23:22	179200	68200	5,246	1658	238	10	42	75.6	19.36		11.11	1264.58	1.54	175.10		630.00	151106.00	15	4280.00
11/8/10 23:37	115200	58800	4,523	1664	238	11	42	75.6	17.21		9.58	1274.15	1.33	176.42		630.00	151736.00	15	4295.00
11/8/10 23:52	179200	68800	5,292	1634	238	11	40	72	19.36		10.67	1284.82	1.48	177.90		600.00	152336.00	15	4310.00
11/9/10 0:07	179200	64700	4,977	1659	238	10	41	73.8	19.36		10.29	1295.11	1.42	179.32		615.00	152951.00	15	4325.00
11/9/10 0:22	161600	63200	4,862	1648	238	11	41	73.8	19.36		10.05	1305.16	1.39	180.71		615.00	153566.00	15	4340.00
11/9/10 0:36	179200	73300	5,638	1636	238	10	42	75.6	19.36		11.14	1316.30	1.54	182.26		588.00	154154.00	14	4354.00
11/9/10 0:51	179200	65600	5,046	1659	238	11	42	75.6	19.36		10.68	1326.98	1.48	183.74		630.00	154784.00	15	4369.00
11/9/10 1:06	363200	52400	4,031	1655	238	11	40	72	19.36		8.13	1335.11	1.13	184.86		600.00	155384.00	15	4384.00
11/9/10 1:21	152000	62600	4,815	1639	238	11	40	72	19.36		9.71	1344.82	1.34	186.21		600.00	155984.00	15	4399.00
11/9/10 1:36	179200	65700	5,054	1638	238	10	42	75.6	17.21		10.70	1355.52	1.48	187.69		630.00	156614.00	15	4414.00
11/9/10 1:51	179200	69100	5,315	1665	238	11	42	75.6	17.21		11.25	1366.77	1.56	189.24		630.00	157244.00	15	4429.00
11/9/10 2:06	158400	64500	4,962	1656	238	10	41	73.8	19.36		10.25	1377.02	1.42	190.66		615.00	157859.00	15	4444.00
11/9/10 2:21	179200	70100	5,392	1640	238	12	39	70.2	19.36		10.60	1387.62	1.47	192.13		585.00	158444.00	15	4459.00
11/9/10 2:36	366400	53900	4,146	1639															

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/9/10 3:36	134400	61400	4,723	1636	238	10	41	73.8	17.21		9.76	1433.45	1.35	198.48		615.00	161459.00	15	4534.00
11/9/10 3:51	64000	58300	4,485	1680	238	9	42	75.6	19.36		9.49	1442.95	1.31	199.79		630.00	162089.00	15	4549.00
11/9/10 4:06	30400	54700	4,208	1663	238	9	40	72	19.36		8.48	1451.43	1.17	200.97		600.00	162689.00	15	4564.00
11/9/10 4:21	296000	46600	3,585	1661	238	9	41	73.8	21.51		7.41	1458.84	1.03	201.99		615.00	163304.00	15	4579.00
11/9/10 4:36	393600	51700	3,977	1654	238	10	40	72	19.36		8.02	1466.86	1.11	203.10		600.00	163904.00	15	4594.00
11/9/10 4:51	179200	65100	5,008	1651	238	11	38	68.4	17.21		9.59	1476.45	1.33	204.43		570.00	164474.00	15	4609.00
11/9/10 5:06	99200	60600	4,662	1645	238	10	40	72	19.36		9.40	1485.85	1.30	205.73		600.00	165074.00	15	4624.00
11/9/10 5:21	137600	63100	4,854	1693	238	10	40	72	17.21		9.79	1495.64	1.36	207.09		600.00	165674.00	15	4639.00
11/9/10 5:36	75200	60500	4,654	1659	238	9	40	72	17.21		9.38	1505.02	1.30	208.39		600.00	166274.00	15	4654.00
11/9/10 5:51	100800	62300	4,792	1646	238	11	39	70.2	19.36		9.42	1514.44	1.30	209.69		585.00	166859.00	15	4669.00
11/9/10 6:06	379200	52100	4,008	1667	238	10	40	72	19.36		8.08	1522.52	1.12	210.81		600.00	167459.00	15	4684.00
11/9/10 6:21	179200	71800	5,523	1655	238	11	40	72	17.21		11.14	1533.66	1.54	212.35		600.00	168059.00	15	4699.00
11/9/10 6:36	179200	63900	4,915	1664	238	11	41	73.8	19.36		10.16	1543.82	1.41	213.76		615.00	168674.00	15	4714.00
11/9/10 6:51	164800	65000	5,000	1641	238	11	40	72	17.21		10.08	1553.90	1.40	215.16		600.00	169274.00	15	4729.00
11/9/10 7:06	3200	57200	4,400	1662	238	11	39	70.2	17.21		8.65	1562.55	1.20	216.35		585.00	169859.00	15	4744.00
11/9/10 7:21	404800	55200	4,246	1687	238	10	39	70.2	19.36		8.35	1570.90	1.16	217.51		585.00	170444.00	15	4759.00
11/9/10 7:35	174400	64000	4,923	1655	238	10	42	75.6	19.36		9.73	1580.62	1.35	218.86		588.00	171032.00	14	4773.00
11/9/10 7:50	107200	59600	4,585	1665	238	11	40	72	19.36		9.24	1589.87	1.28	220.14		600.00	171632.00	15	4788.00
11/9/10 8:05	179200	66400	5,108	1667	238	10	42	75.6	19.36		10.81	1600.68	1.50	221.63		630.00	172262.00	15	4803.00
11/9/10 8:20	179200	73400	5,646	1633	238	11	41	73.8	19.36		11.67	1612.35	1.62	223.25		615.00	172877.00	15	4818.00
11/9/10 8:35	81600	59500	4,577	1664	238	11	39	70.2	19.36		9.00	1621.35	1.25	224.49		585.00	173462.00	15	4833.00
11/9/10 8:50	64000	61400	4,723	1644	238	10	40	72	17.21		9.52	1630.87	1.32	225.81		600.00	174062.00	15	4848.00
11/9/10 9:05	6400	51900	3,992	1634	238	10	42	75.6	19.36		8.45	1639.32	1.17	226.98		630.00	174692.00	15	4863.00
11/9/10 9:20	179200	71600	5,508	1648	238	10	42	75.6	19.36		11.66	1650.98	1.61	228.60		630.00	175322.00	15	4878.00
11/9/10 9:35	126400	60900	4,685	1663	238	10	41	73.8	19.36		9.68	1660.66	1.34	229.94		615.00	175937.00	15	4893.00
11/9/10 9:50	179200	67800	5,215	1654	238	11	40	72	17.21		10.52	1671.18	1.46	231.39		600.00	176537.00	15	4908.00
11/9/10 10:05	172800	65500	5,038	1657	238	11	39	70.2	17.21		9.90	1681.09	1.37	232.77		585.00	177122.00	15	4923.00
11/9/10 10:20	43200	55500	4,269	1656	238	11	41	73.8	19.36		8.82	1689.91	1.22	233.99		615.00	177737.00	15	4938.00
11/9/10 10:35	179200	74400	5,723	1655	238	11	41	73.8	17.21		11.83	1701.74	1.64	235.63		615.00	178352.00	15	4953.00
11/9/10 10:50	179200	68200	5,246	1653	238	11	40	72	17.21		10.58	1712.31	1.46	237.09		600.00	178952.00	15	4968.00
11/9/10 11:05	179200	64900	4,992	1650	238	11	41	73.8	19.36		10.32	1722.63	1.43	238.52		615.00	179567.00	15	4983.00
11/9/10 11:20	144000	63600	4,892	1645	238	12	40	72	19.36		9.86	1732.50	1.37	239.88		600.00	180167.00	15	4998.00
11/9/10 11:35	179200	70100	5,392	1662	238	10	42	75.6	19.36		11.42	1743.91	1.58	241.46		630.00	180797.00	15	5013.00
11/9/10 11:50	179200	71700	5,515	1639	238	11	40	72	17.21		11.12	1755.03	1.54	243.00		600.00	181397.00	15	5028.00
11/9/10 12:05	179200	64600	4,969	1636	238	11	40	72	19.36		10.02	1765.05	1.39	244.39		600.00	181997.00	15	5043.00
11/9/10 12:20	49600	58800	4,523	1673	238	10	39	70.2	19.36		8.89	1773.94	1.23	245.62		585.00	182582.00	15	5058.00
11/9/10 12:35	179200	64500	4,962	1673	238	10	42	75.6	19.36		10.50	1784.45	1.45	247.08		630.00	183212.00	15	5073.00
11/9/10 12:50	179200	64400	4,954	1641	238	11	40	72	17.21		9.99	1794.44	1.38	248.46		600.00	183812.00	15	5088.00
11/9/10 13:05	174400	64000	4,923	1659	238	10	41	73.8	19.36		10.17	1804.61	1.41	249.87		615.00	184427.00	15	5103.00
11/9/10 13:20	179200	70500	5,423	1651	238	11	41	73.8	17.21		11.21	1815.82	1.55	251.42		615.00	185042.00	15	5118.00
11/9/10 13:35	179200	65800	5,062	1658	238	10	42	75.6	19.36		10.72	1826.53	1.48	252.90		630.00	185672.00	15	5133.00
11/9/10 13:50	179200	59900	4,608	1646	224	4	47	84.6	21.51		10.92	1837.45	1.51	254.42		705.00	186377.00	15	5148.00
11/9/10 14:05	145600	54200	4,169	1657	238	5	47	84.6	21.51		9.88	1847.33	1.37	255.78		705.00	187082.00	15	5163.00
11/9/10 14:20	297600	43500	3,346	1669	238	6	45	81	21.51		7.59	1854.92	1.05	256.83		675.00	187757.00	15	5178.00
11/9/10 14:34	179200	60500	4,654	1663	238	7	46	82.8	15.06		10.07	1864.99	1.39	258.23		644.00	188401.00	14	5192.00
11/9/10 14:49	179200	64200	4,938	1638	238	9	42	75.6	17.21		10.46	1875.44	1.45	259.68		630.00	189031.00	15	5207.00
11/9/10 15:04	179200	67200	5,169	1671	236	6	46	82.8	21.51		11.99	1887.43	1.66	261.34		690.00	189721.00	15	5222.00
11/9/10 15:19	179200	62400	4,800	1674	238	9	44	79.2	17.21		10.65	1898.08	1.47	262.81		660.00	190381.00	15	5237.00
11/9/10 15:34	156800	61400	4,723	1654	238	9	42	75.6	17.21		10.00	1908.08	1.38	264.20		630.00	191011.00	15	5252.00
11/9/10 15:49	1600	52800	4,062	1675	238	10	41	73.8	17.21		8.39	1916.47	1.16	265.36		615.00	191626.00	15	5267.00
11/9/10 16:04	22400	51700	3,977	1642	238	9	42	75.6	17.21		8.42	1924.89	1.17	266.52		630.00	192256.00	15	5282.00
11/9/10 16:19	179200	65000	5,000	1661	238	9	44	79.2	17.21		11.09	1935.98	1.54	268.06		660.00	192916.00	15	5297.00
11/9/10 16:34	406400	52500	4,038	1643	238	10	40	72	17.21		8.14	1944.12	1.13	269.19		600.00	193516.00	15	5312.00
11/9/10 16:49	126400	56700	4,362	1648	238	10	44	79.2	17.21		9.67	1953.80	1.34	270.53		660.00	194176.00	15	5327.00
11/9/10 17:04	131200	64400	4,954	1643	238	10	39	70.2	19.36		9.74	1963.53	1.35	271.87		585.00	194761.00	15	5342.00
11/9/10 17:19	339200	47100	3,623	1661	238	10	41	73.8	19.36		7.49	1971.02	1.04	272.91		615.00	195376.00	15	5357.00
11/9/10 17:34	179200	67100	5,162	1676	238	10	44	79.2	17.21		11.45	1982.47	1.59	274.50		660.00	196036.00	15	5372.00
11/9/10 17:49	158400	61400	4,723	1644	238	10	42	75.6	19.36		10.00	1992.47	1.38	275.88		630.00	196666.00	15	5387.00
11/9/10 18:04	179200	65200	5,015	1650	238	10	41	73.8	19.36		10.37	2002.83	1.44	277.32		615.00	197281.00	15	5402.00
11/9/10 18:19	3200	54300	4,177	1654	238	10	39	70.2	19.36		8.21	2011.05	1.14	278.45		585.00	197866.00	15	5417.00
11/9/10 18:34	300800	45700	3,515	1641	238	10	40	72	19.36		7.09	2018.13	0.98	279.43		600.00	198466.00	15	5432.00
11/9/10 18:49	398400	54700	4,208	1664	238	10	40	72											

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/9/10 19:49	179200	70200	5,400	1644	238	10	42	75.6	19.36		11.43	2066.14	1.58	286.08		630.00	201526.00	15	5507.00
11/9/10 20:04	104000	58100	4,469	1659	238	10	43	77.4	17.21		9.69	2075.83	1.34	287.42		645.00	202171.00	15	5522.00
11/9/10 20:19	68800	55800	4,292	1644	238	10	41	73.8	19.36		8.87	2084.70	1.23	288.65		615.00	202786.00	15	5537.00
11/9/10 20:34	92800	57300	4,408	1652	238	10	40	72	19.36		8.89	2093.59	1.23	289.88		600.00	203386.00	15	5552.00
11/9/10 20:49	179200	66500	5,115	1652	238	10	41	73.8	17.21		10.57	2104.16	1.46	291.35		615.00	204001.00	15	5567.00
11/9/10 21:04	112000	58500	4,500	1671	238	10	42	75.6	15.06		9.53	2113.69	1.32	292.66		630.00	204631.00	15	5582.00
11/9/10 21:19	395200	49400	3,800	1642	238	9	43	77.4	17.21		8.24	2121.92	1.14	293.80		645.00	205276.00	15	5597.00
11/9/10 21:33	137600	63100	4,854	1648	238	10	40	72	19.36		9.13	2131.06	1.26	295.07		560.00	205836.00	14	5611.00
11/9/10 21:48	179200	65200	5,015	1654	238	9	43	77.4	21.51		10.87	2141.93	1.51	296.57		645.00	206481.00	15	5626.00
11/9/10 22:03	48000	55900	4,300	1663	238	9	41	73.8	17.21		8.89	2150.81	1.23	297.81		615.00	207096.00	15	5641.00
11/9/10 22:18	25600	55700	4,285	1641	238	10	40	72	17.21		8.64	2159.45	1.20	299.00		600.00	207696.00	15	5656.00
11/9/10 22:33	107200	59700	4,592	1656	238	9	41	73.8	17.21		9.49	2168.94	1.31	300.32		615.00	208311.00	15	5671.00
11/9/10 22:48	267200	45800	3,523	1678	238	10	40	72	19.36		7.10	2176.05	0.98	301.30		600.00	208911.00	15	5686.00
11/9/10 23:03	164800	65000	5,000	1661	238	10	40	72	19.36		10.08	2186.13	1.40	302.69		600.00	209511.00	15	5701.00
11/9/10 23:18	142400	61900	4,762	1679	238	10	42	75.6	19.36		10.08	2196.21	1.40	304.09		630.00	210141.00	15	5716.00
11/9/10 23:33	36800	56500	4,346	1643	238	10	40	72	17.21		8.76	2204.97	1.21	305.30		600.00	210741.00	15	5731.00
11/9/10 23:48	358400	50700	3,900	1674	238	10	41	73.8	17.21		8.06	2213.03	1.12	306.42		615.00	211356.00	15	5746.00
11/10/10 0:03	94400	61900	4,762	1651	238	10	39	70.2	17.21		9.36	2222.39	1.30	307.72		585.00	211941.00	15	5761.00
11/10/10 0:18	179200	66700	5,131	1664	238	10	42	75.6	19.36		10.86	2233.26	1.50	309.22		630.00	212571.00	15	5776.00
11/10/10 0:33	316800	50500	3,885	1682	238	10	39	70.2	17.21		7.64	2240.89	1.06	310.28		585.00	213156.00	15	5791.00
11/10/10 0:48	64000	56900	4,377	1642	238	9	41	73.8	17.21		9.05	2249.94	1.25	311.53		615.00	213771.00	15	5806.00
11/10/10 1:03	57600	56500	4,346	1662	238	10	40	72	17.21		8.76	2258.70	1.21	312.74		600.00	214371.00	15	5821.00
11/10/10 1:18	179200	68400	5,262	1645	238	10	42	75.6	19.36		11.14	2269.84	1.54	314.29		630.00	215001.00	15	5836.00
11/10/10 1:33	40000	56700	4,362	1676	238	10	41	73.8	19.36		9.01	2278.85	1.25	315.53		615.00	215616.00	15	5851.00
11/10/10 1:48	107200	61200	4,708	1649	238	10	40	72	21.51		9.49	2288.35	1.31	316.85		600.00	216216.00	15	5866.00
11/10/10 2:03	113600	58600	4,508	1641	238	10	42	75.6	19.36		9.54	2297.89	1.32	318.17		630.00	216846.00	15	5881.00
11/10/10 2:18	179200	65800	5,062	1651	238	9	42	75.6	19.36		10.72	2308.61	1.48	319.65		630.00	217476.00	15	5896.00
11/10/10 2:33	120000	60500	4,654	1650	238	10	41	73.8	17.21		9.62	2318.22	1.33	320.98		615.00	218091.00	15	5911.00
11/10/10 2:48	228800	44400	3,415	1668	238	10	38	68.4	17.21		6.54	2324.77	0.91	321.89		570.00	218661.00	15	5926.00
11/10/10 3:03	51200	57400	4,415	1663	238	10	40	72	19.36		8.90	2333.67	1.23	323.12		600.00	219261.00	15	5941.00
11/10/10 3:18	139200	61800	4,754	1658	238	10	42	75.6	19.36		10.06	2343.73	1.39	324.52		630.00	219891.00	15	5956.00
11/10/10 3:33	408000	58300	4,485	1642	238	11	37	66.6	19.36		8.36	2352.10	1.16	325.67		555.00	220446.00	15	5971.00
11/10/10 3:48	108800	61300	4,715	1659	238	10	41	73.8	17.21		9.75	2361.84	1.35	327.02		615.00	221061.00	15	5986.00
11/10/10 4:03	89600	59900	4,608	1651	238	10	40	72	17.21		9.29	2371.13	1.29	328.31		600.00	221661.00	15	6001.00
11/10/10 4:18	73600	57500	4,423	1662	238	10	41	73.8	17.21		9.14	2380.27	1.27	329.58		615.00	222276.00	15	6016.00
11/10/10 4:32	179200	63400	4,877	1641	238	9	42	75.6	19.36		9.64	2389.91	1.33	330.91		588.00	222864.00	14	6030.00
11/10/10 4:47	51200	57500	4,423	1654	238	10	40	72	19.36		8.92	2398.83	1.23	332.15		600.00	223464.00	15	6045.00
11/10/10 5:02	4800	54400	4,185	1667	238	10	40	72	19.36		8.44	2407.27	1.17	333.31		600.00	224064.00	15	6060.00
11/10/10 5:17	179200	70400	5,415	1670	238	11	42	75.6	17.21		11.46	2418.73	1.59	334.90		630.00	224694.00	15	6075.00
11/10/10 5:32	32000	57600	4,431	1628	238	10	39	70.2	19.36		8.71	2427.44	1.21	336.11		585.00	225279.00	15	6090.00
11/10/10 5:47	16000	55100	4,238	1666	238	10	41	73.8	17.21		8.76	2436.20	1.21	337.32		615.00	225894.00	15	6105.00
11/10/10 6:02	24000	33600	2,585	1631	238	10	34	61.2	17.21		4.43	2440.63	0.61	337.93		510.00	226404.00	15	6120.00
11/10/10 6:17	43200	55500	4,269	1626	238	9	40	72	19.36		8.61	2449.24	1.19	339.13		600.00	227004.00	15	6135.00
11/10/10 6:32	172800	65400	5,031	1668	238	9	40	72	17.21		10.14	2459.38	1.40	340.53		600.00	227604.00	15	6150.00
11/10/10 6:47	6400	54500	4,192	1657	238	9	39	70.2	17.21		8.24	2467.62	1.14	341.67		585.00	228189.00	15	6165.00
11/10/10 7:02	155200	62800	4,831	1644	238	10	40	72	19.36		9.74	2477.36	1.35	343.02		600.00	228789.00	15	6180.00
11/10/10 7:17	179200	69200	5,323	1668	238	8	43	77.4	17.21		11.54	2488.90	1.60	344.62		645.00	229434.00	15	6195.00
11/10/10 7:32	139200	60300	4,638	1634	238	8	42	75.6	19.36		9.82	2498.72	1.36	345.98		630.00	230064.00	15	6210.00
11/10/10 7:47	91200	55900	4,300	1637	238	9	41	73.8	17.21		8.89	2507.61	1.23	347.21		615.00	230679.00	15	6225.00
11/10/10 8:02	145600	60600	4,662	1642	238	8	42	75.6	19.36		9.87	2517.48	1.37	348.57		630.00	231309.00	15	6240.00
11/10/10 8:17	179200	66800	5,138	1637	238	8	41	73.8	19.36		10.62	2528.10	1.47	350.04		615.00	231924.00	15	6255.00
11/10/10 8:32	356800	49400	3,800	1639	238	8	41	73.8	19.36		7.85	2535.95	1.09	351.13		615.00	232539.00	15	6270.00
11/10/10 8:47	174400	62500	4,808	1657	238	8	42	75.6	17.21		10.18	2546.13	1.41	352.54		630.00	233169.00	15	6285.00
11/10/10 9:02	88000	55700	4,285	1642	238	8	42	75.6	17.21		9.07	2555.20	1.26	353.80		630.00	233799.00	15	6300.00
11/10/10 9:17	179200	70800	5,446	1667	238	8	45	81	17.21		12.35	2567.55	1.71	355.51		675.00	234474.00	15	6315.00
11/10/10 9:32	172800	62400	4,800	1654	238	9	41	73.8	19.36		9.92	2577.47	1.37	356.88		615.00	235089.00	15	6330.00
11/10/10 9:47	142400	59100	4,546	1667	238	7	43	77.4	21.51		9.85	2587.33	1.36	358.25		645.00	235734.00	15	6345.00
11/10/10 10:02	179200	64600	4,969	1693	238	8	42	75.6	17.21		10.52	2597.85	1.46	359.70		630.00	236364.00	15	6360.00
11/10/10 10:17	179200	69400	5,338	1651	238	9	42	75.6	17.21		11.30	2609.15	1.56	361.27		630.00	236994.00	15	6375.00
11/10/10 10:32	379200	52100	4,008	1662	238	9	40	72	19.36		8.08	2617.23	1.12	362.39		600.00	237594.00	15	6390.00
11/10/10 10:47	179200	71800	5,523	1675	238	10	39	70.2	19.36		10.86	2628.09	1.50	363.89		585.00	238179.00	15	6405.00
11/10/10 11:02	179200	62800	4,831	1653	238	9	41</												

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/10/10 12:01	97600	999900	76,915	1648	238	54	1	1.8	10.76		3.88	2672.45	0.54	370.03		15.00	240216.00	15	6479.00
11/10/10 12:16	179200	660600	50,815	1659	238	52	4	7.2	8.6		10.25	2682.70	1.42	371.45		60.00	240276.00	15	6494.00
11/10/10 12:31	83200	79500	6,115	1713	234	23	30	54	17.21		9.25	2691.95	1.28	372.73		450.00	240726.00	15	6509.00
11/10/10 12:46	88000	43800	3,369	1635	378	3	30	54	15.06		5.09	2697.04	0.71	373.44		450.00	241176.00	15	6524.00
11/10/10 13:01	228800	19500	1,500	1640	398	3	30	54	17.21		2.27	2699.31	0.31	373.75		450.00	241626.00	15	6539.00
11/10/10 13:16	142400	41600	3,200	1660	428	3	35	63	19.36		5.65	2704.96	0.78	374.53		525.00	242151.00	15	6554.00
11/10/10 13:31	140800	40400	3,108	1678	486	5	35	63	23.66		5.48	2710.44	0.76	375.29		525.00	242676.00	15	6569.00
11/10/10 13:46	286400	52500	4,038	1657	506	8	35	63	21.51		7.12	2717.56	0.99	376.28		525.00	243201.00	15	6584.00
11/10/10 14:01	179200	104500	8,038	1663	92	26	27	48.6	21.51		10.94	2728.50	1.51	377.79		405.00	243606.00	15	6599.00
11/10/10 14:16	51200	143900	11,069	1677	194	37	17	30.6	15.06		9.49	2737.99	1.31	379.11		255.00	243861.00	15	6614.00
11/10/10 14:31	27200	131600	10,123	1683	238	39	17	30.6	15.06		8.67	2746.66	1.20	380.31		255.00	244116.00	15	6629.00
11/10/10 14:46	1600	135700	10,438	1644	238	38	15	27	12.91		7.89	2754.56	1.09	381.40		225.00	244341.00	15	6644.00
11/10/10 15:01	126400	118900	9,146	1646	238	35	19	34.2	17.21		8.76	2763.32	1.21	382.61		285.00	244626.00	15	6659.00
11/10/10 15:16	172800	109100	8,392	1673	238	31	25	45	15.06		10.58	2773.89	1.46	384.08		375.00	245001.00	15	6674.00
11/10/10 15:31	121600	92000	7,077	1659	238	28	27	48.6	17.21		9.63	2783.52	1.33	385.41		405.00	245406.00	15	6689.00
11/10/10 15:46	179200	100700	7,746	1632	238	28	28	50.4	17.21		10.93	2794.46	1.51	386.92		420.00	245826.00	15	6704.00
11/10/10 16:01	400000	76400	5,877	1657	238	27	28	50.4	17.21		8.29	2802.75	1.15	388.07		420.00	246246.00	15	6719.00
11/10/10 16:16	179200	89700	6,900	1677	238	25	32	57.6	17.21		11.13	2813.88	1.54	389.61		480.00	246726.00	15	6734.00
11/10/10 16:31	224000	64400	4,954	1657	238	25	27	48.6	15.06		6.74	2820.62	0.93	390.55		405.00	247131.00	15	6749.00
11/10/10 16:46	176000	87600	6,738	1660	238	26	29	52.2	17.21		9.85	2830.47	1.36	391.91		435.00	247566.00	15	6764.00
11/10/10 17:01	6400	68100	5,238	1651	238	23	31	55.8	17.21		8.19	2838.66	1.13	393.05		465.00	248031.00	15	6779.00
11/10/10 17:16	179200	87500	6,731	1659	238	22	33	59.4	17.21		11.20	2849.86	1.55	394.60		495.00	248526.00	15	6794.00
11/10/10 17:31	179200	84900	6,531	1645	238	23	31	55.8	17.21		10.21	2860.06	1.41	396.01		465.00	248991.00	15	6809.00
11/10/10 17:46	179200	80900	6,223	1654	238	22	33	59.4	17.21		10.35	2870.41	1.43	397.44		495.00	249486.00	15	6824.00
11/10/10 18:01	179200	81900	6,300	1651	238	21	33	59.4	17.21		10.48	2880.89	1.45	398.89		495.00	249981.00	15	6839.00
11/10/10 18:15	28800	70000	5,385	1668	238	20	32	57.6	17.21		8.11	2889.00	1.12	400.02		448.00	250429.00	14	6853.00
11/10/10 18:30	86400	70400	5,415	1668	238	21	35	63	15.06		9.55	2898.55	1.32	401.34		525.00	250954.00	15	6868.00
11/10/10 18:45	56000	70100	5,392	1652	238	20	32	57.6	17.21		8.70	2907.25	1.20	402.54		480.00	251434.00	15	6883.00
11/10/10 19:00	320000	64200	4,938	1638	238	20	31	55.8	27.97		7.72	2914.97	1.07	403.61		465.00	251899.00	15	6898.00
11/10/10 19:15	3200	67800	5,215	1659	238	20	32	57.6	17.21		8.41	2923.38	1.16	404.78		480.00	252379.00	15	6913.00
11/10/10 19:30	403200	65100	5,008	1676	238	20	33	59.4	15.06		8.33	2931.71	1.15	405.93		495.00	252874.00	15	6928.00
11/10/10 19:45	102400	48300	3,715	1637	238	20	27	48.6	19.36		5.06	2936.77	0.70	406.63		405.00	253279.00	15	6943.00
11/10/10 20:00	145600	72800	5,600	1659	238	19	35	63	17.21		9.88	2946.65	1.37	408.00		525.00	253804.00	15	6958.00
11/10/10 20:15	171200	76900	5,915	1652	238	20	34	61.2	17.21		10.14	2956.78	1.40	409.40		510.00	254314.00	15	6973.00
11/10/10 20:30	11200	64500	4,962	1636	238	19	34	61.2	17.21		8.50	2965.29	1.18	410.58		510.00	254824.00	15	6988.00
11/10/10 20:45	65600	68800	5,292	1658	238	19	34	61.2	17.21		9.07	2974.36	1.26	411.83		510.00	255334.00	15	7003.00
11/10/10 21:00	179200	85100	6,546	1688	238	18	35	63	17.21		11.55	2985.91	1.60	413.43		525.00	255859.00	15	7018.00
11/10/10 21:15	179200	76100	5,854	1645	238	18	35	63	17.21		10.33	2996.23	1.43	414.86		525.00	256384.00	15	7033.00
11/10/10 21:30	80000	71900	5,531	1667	238	18	35	63	17.21		9.76	3005.99	1.35	416.21		525.00	256909.00	15	7048.00
11/10/10 21:45	12800	64600	4,969	1659	238	17	36	64.8	17.21		9.02	3015.01	1.25	417.46		540.00	257449.00	15	7063.00
11/10/10 22:00	92800	70800	5,446	1664	238	18	34	61.2	19.36		9.33	3024.34	1.29	418.76		510.00	257959.00	15	7078.00
11/10/10 22:15	41600	66800	5,138	1646	238	18	33	59.4	17.21		8.55	3032.89	1.18	419.94		495.00	258454.00	15	7093.00
11/10/10 22:30	179200	80500	6,192	1635	238	18	35	63	17.21		10.92	3043.82	1.51	421.45		525.00	258979.00	15	7108.00
11/10/10 22:45	30400	66000	5,077	1667	238	17	34	61.2	17.21		8.70	3052.52	1.20	422.66		510.00	259489.00	15	7123.00
11/10/10 23:00	168000	74500	5,731	1646	238	17	35	63	17.21		10.11	3062.63	1.40	424.06		525.00	260014.00	15	7138.00
11/10/10 23:15	179200	75700	5,823	1657	238	17	35	63	17.21		10.27	3072.90	1.42	425.48		525.00	260539.00	15	7153.00
11/10/10 23:30	291200	54400	4,185	1674	238	17	34	61.2	17.21		7.17	3080.07	0.99	426.47		510.00	261049.00	15	7168.00
11/10/10 23:45	369600	60500	4,654	1659	238	17	35	63	19.36		8.21	3088.28	1.14	427.61		525.00	261574.00	15	7183.00
11/11/10 0:00	150400	46200	3,554	1657	238	17	34	61.2	15.06		6.09	3094.37	0.84	428.45		510.00	262084.00	15	7198.00
11/11/10 0:15	88000	66500	5,115	1655	238	16	37	66.6	19.36		9.54	3103.91	1.32	429.77		555.00	262639.00	15	7213.00
11/11/10 0:30	100800	67500	5,192	1661	238	16	35	63	19.36		9.16	3113.07	1.27	431.04		525.00	263164.00	15	7228.00
11/11/10 0:45	43200	67000	5,154	1669	238	17	35	63	17.21		9.09	3122.17	1.26	432.30		525.00	263689.00	15	7243.00
11/11/10 1:00	161600	74100	5,700	1646	238	16	36	64.8	19.36		10.34	3132.51	1.43	433.73		540.00	264229.00	15	7258.00
11/11/10 1:14	171200	72600	5,585	1696	238	16	37	66.6	17.21		9.72	3142.23	1.35	435.08		518.00	264747.00	14	7272.00
11/11/10 1:29	78400	65800	5,062	1657	238	17	36	64.8	17.21		9.18	3151.42	1.27	436.35		540.00	265287.00	15	7287.00
11/11/10 1:44	1600	65700	5,054	1658	238	17	33	59.4	19.36		8.41	3159.82	1.16	437.51		495.00	265782.00	15	7302.00
11/11/10 1:59	296000	54800	4,215	1638	238	17	34	61.2	17.21		7.22	3167.05	1.00	438.51		510.00	266292.00	15	7317.00
11/11/10 2:14	273600	51500	3,962	1669	238	17	35	63	17.21		6.99	3174.04	0.97	439.48		525.00	266817.00	15	7332.00
11/11/10 2:29	168000	43600	3,354	1635	238	17	35	63	17.21		5.92	3179.95	0.82	440.30		525.00	267342.00	15	7347.00
11/11/10 2:44	40000	66700	5,131	1654	238	17	35	63	17.21		9.05	3189.01	1.25	441.55		525.00	267867.00	15	7362.00
11/11/10 2:59	179200	77200	5,938	1665	238	17	36	64.8	17.21		10.78	3199.78	1.49	443.05		540.00	268407.00	15	7377.00
11/11/10 3:14	32000																		

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/11/10 4:14	118400	75000	5,769	1645	238	16	34	61.2	17.21		9.89	3246.24	1.37	449.48		510.00	271017.00	15	7452.00
11/11/10 4:29	292800	54500	4,192	1665	238	16	33	59.4	19.36		6.97	3253.22	0.97	450.45		495.00	271512.00	15	7467.00
11/11/10 4:44	116800	70600	5,431	1659	238	16	36	64.8	19.36		9.85	3263.07	1.36	451.81		540.00	272052.00	15	7482.00
11/11/10 4:59	1600	60200	4,631	1644	238	16	35	63	17.21		8.17	3271.24	1.13	452.94		525.00	272577.00	15	7497.00
11/11/10 5:14	315200	56300	4,331	1652	238	15	34	61.2	19.36		7.42	3278.67	1.03	453.97		510.00	273087.00	15	7512.00
11/11/10 5:29	56000	66000	5,077	1652	238	15	36	64.8	17.21		9.21	3287.88	1.28	455.24		540.00	273627.00	15	7527.00
11/11/10 5:44	275200	50200	3,862	1682	238	15	37	66.6	17.21		7.20	3295.08	1.00	456.24		555.00	274182.00	15	7542.00
11/11/10 5:59	179200	75200	5,785	1638	238	15	37	66.6	17.21		10.79	3305.87	1.49	457.74		555.00	274737.00	15	7557.00
11/11/10 6:14	40000	64800	4,985	1669	238	15	35	63	17.21		8.79	3314.66	1.22	458.95		525.00	275262.00	15	7572.00
11/11/10 6:29	156800	73600	5,662	1633	238	15	35	63	17.21		9.99	3324.65	1.38	460.34		525.00	275787.00	15	7587.00
11/11/10 6:44	179200	73000	5,615	1643	238	15	36	64.8	21.51		10.19	3334.84	1.41	461.75		540.00	276327.00	15	7602.00
11/11/10 6:59	142400	68700	5,285	1654	238	15	38	68.4	17.21		10.12	3344.96	1.40	463.15		570.00	276897.00	15	7617.00
11/11/10 7:14	390400	57100	4,392	1633	238	14	36	64.8	19.36		7.97	3352.93	1.10	464.25		540.00	277437.00	15	7632.00
11/11/10 7:29	179200	74600	5,738	1661	238	14	38	68.4	19.36		10.99	3363.93	1.52	465.77		570.00	278007.00	15	7647.00
11/11/10 7:44	91200	66800	5,138	1663	238	14	37	66.6	17.21		9.58	3373.51	1.33	467.10		555.00	278562.00	15	7662.00
11/11/10 7:59	65600	64900	4,992	1638	238	15	37	66.6	17.21		9.31	3382.82	1.29	468.39		555.00	279117.00	15	7677.00
11/11/10 8:13	164800	72200	5,554	1649	238	14	36	64.8	19.36		9.41	3392.23	1.30	469.69		504.00	279621.00	14	7691.00
11/11/10 8:28	179200	78000	6,000	1638	238	15	37	66.6	17.21		11.19	3403.42	1.55	471.24		555.00	280176.00	15	7706.00
11/11/10 8:43	38400	62900	4,838	1643	238	15	36	64.8	17.21		8.78	3412.20	1.22	472.46		540.00	280716.00	15	7721.00
11/11/10 8:58	308800	57500	4,423	1660	238	15	34	61.2	17.21		7.58	3419.78	1.05	473.51		510.00	281226.00	15	7736.00
11/11/10 9:13	121600	67200	5,169	1642	238	15	36	64.8	19.36		9.38	3429.16	1.30	474.81		540.00	281766.00	15	7751.00
11/11/10 9:28	80000	66000	5,077	1662	238	15	33	59.4	17.21		8.45	3437.60	1.17	475.98		495.00	282261.00	15	7766.00
11/11/10 9:43	67200	63200	4,862	1652	238	13	37	66.6	17.21		9.07	3446.67	1.26	477.23		555.00	282816.00	15	7781.00
11/11/10 9:58	179200	73300	5,638	1659	238	13	39	70.2	17.21		11.08	3457.76	1.53	478.77		585.00	283401.00	15	7796.00
11/11/10 10:13	400000	59400	4,569	1608	238	13	36	64.8	17.21		8.29	3466.05	1.15	479.91		540.00	283941.00	15	7811.00
11/11/10 10:28	179200	71600	5,508	1644	238	12	38	68.4	17.21		10.55	3476.60	1.46	481.37		570.00	284511.00	15	7826.00
11/11/10 10:43	150400	69200	5,323	1660	238	12	37	66.6	17.21		9.93	3486.52	1.37	482.75		555.00	285066.00	15	7841.00
11/11/10 10:58	179200	71700	5,515	1656	238	12	39	70.2	17.21		10.84	3497.37	1.50	484.25		585.00	285651.00	15	7856.00
11/11/10 11:13	112000	63000	4,846	1646	238	12	38	68.4	17.21		9.28	3506.65	1.29	485.54		570.00	286221.00	15	7871.00
11/11/10 11:28	384000	55100	4,238	1649	238	13	38	68.4	17.21		8.12	3514.77	1.12	486.66		570.00	286791.00	15	7886.00
11/11/10 11:43	393600	57400	4,415	1674	238	12	37	66.6	17.21		8.23	3523.00	1.14	487.80		555.00	287346.00	15	7901.00
11/11/10 11:58	105600	69700	5,362	1657	238	15	35	63	17.21		9.46	3532.46	1.31	489.11		525.00	287871.00	15	7916.00
11/11/10 12:13	179200	72300	5,562	1670	238	14	38	68.4	17.21		10.65	3543.12	1.48	490.59		570.00	288441.00	15	7931.00
11/11/10 12:28	73600	65400	5,031	1644	238	15	36	64.8	17.21		9.13	3552.24	1.26	491.85		540.00	288981.00	15	7946.00
11/11/10 12:43	100800	67500	5,192	1647	238	17	32	57.6	19.36		8.38	3560.62	1.16	493.01		480.00	289461.00	15	7961.00
11/11/10 12:58	147200	72900	5,608	1651	238	16	36	64.8	19.36		10.18	3570.80	1.41	494.42		540.00	290001.00	15	7976.00
11/11/10 13:13	70400	63500	4,885	1639	238	16	37	66.6	19.36		9.11	3579.91	1.26	495.68		555.00	290556.00	15	7991.00
11/11/10 13:28	179200	71300	5,485	1658	238	15	40	72	17.21		11.06	3590.96	1.53	497.21		600.00	291156.00	15	8006.00
11/11/10 13:43	308800	50000	3,846	1662	238	16	38	68.4	19.36		7.37	3598.33	1.02	498.23		570.00	291726.00	15	8021.00
11/11/10 13:58	59200	59500	4,577	1659	238	15	39	70.2	19.36		9.00	3607.33	1.25	499.48		585.00	292311.00	15	8036.00
11/11/10 14:13	54400	62400	4,800	1649	222	16	37	66.6	17.21		8.95	3616.28	1.24	500.72		555.00	292866.00	15	8051.00
11/11/10 14:28	110400	72200	5,554	1665	238	18	34	61.2	19.36		9.52	3625.80	1.32	502.03		510.00	293376.00	15	8066.00
11/11/10 14:43	376000	67000	5,154	1661	238	19	33	59.4	19.36		8.57	3634.37	1.19	503.22		495.00	293871.00	15	8081.00
11/11/10 14:58	179200	73300	5,638	1647	238	18	36	64.8	17.21		10.23	3644.60	1.42	504.64		540.00	294411.00	15	8096.00
11/11/10 15:12	179200	79900	6,146	1671	238	19	36	64.8	17.21		10.41	3655.01	1.44	506.08		504.00	294915.00	14	8110.00
11/11/10 15:27	179200	80000	6,154	1674	238	18	38	68.4	17.21		11.79	3666.80	1.63	507.71		570.00	295485.00	15	8125.00
11/11/10 15:42	355200	57700	4,438	1653	238	17	35	63	17.21		7.83	3674.63	1.08	508.80		525.00	296010.00	15	8140.00
11/11/10 15:57	104000	69700	5,362	1628	238	18	34	61.2	17.21		9.19	3683.82	1.27	510.07		510.00	296520.00	15	8155.00
11/11/10 16:12	179200	74400	5,723	1656	238	17	38	68.4	19.36		10.96	3694.78	1.52	511.59		570.00	297090.00	15	8170.00
11/11/10 16:27	368000	57100	4,392	1651	238	18	35	63	17.21		7.75	3702.53	1.07	512.66		525.00	297615.00	15	8185.00
11/11/10 16:42	179200	73000	5,615	1660	238	17	36	64.8	19.36		10.19	3712.72	1.41	514.07		540.00	298155.00	15	8200.00
11/11/10 16:57	33600	64300	4,946	1663	238	17	36	64.8	17.21		8.98	3721.70	1.24	515.31		540.00	298695.00	15	8215.00
11/11/10 17:12	14400	71000	5,462	1666	238	17	34	61.2	17.21		9.36	3731.06	1.30	516.61		510.00	299205.00	15	8230.00
11/11/10 17:27	169600	72500	5,577	1664	238	17	36	64.8	15.06		10.12	3741.18	1.40	518.01		540.00	299745.00	15	8245.00
11/11/10 17:42	160000	71800	5,523	1653	238	16	36	64.8	17.21		10.02	3751.20	1.39	519.40		540.00	300285.00	15	8260.00
11/11/10 17:57	107200	69900	5,377	1654	238	16	34	61.2	19.36		9.22	3760.42	1.28	520.67		510.00	300795.00	15	8275.00
11/11/10 18:12	110400	66300	5,100	1650	238	16	38	68.4	17.21		9.77	3770.19	1.35	522.03		570.00	301365.00	15	8290.00
11/11/10 18:27	51200	65600	5,046	1678	238	16	36	64.8	17.21		9.16	3779.34	1.27	523.29		540.00	301905.00	15	8305.00
11/11/10 18:42	115200	70500	5,423	1643	238	16	35	63	19.36		9.57	3788.91	1.32	524.62		525.00	302430.00	15	8320.00
11/11/10 18:57	102400	65700	5,054	1646	238	15	36	64.8	19.36		9.17	3798.08	1.27	525.89		540.00	302970.00	15	8335.00
11/11/10 19:12	179200	72400	5,569	1639	238	16	37	66.6	19.36		10.39	3808.47	1.44	527.33		555.00	303525.00	15	8350.00

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/11/10 20:27	32000	64200	4,938	1629	238	16	34	61.2	17.21		8.46	3854.83	1.17	533.75		510.00	306150.00	15	8425.00
11/11/10 20:42	19200	36500	2,808	1640	238	16	30	54	17.21		4.25	3859.08	0.59	534.33		450.00	306600.00	15	8440.00
11/11/10 20:57	40000	37200	2,862	1658	238	16	32	57.6	17.21		4.62	3863.69	0.64	534.97		480.00	307080.00	15	8455.00
11/11/10 21:12	27200	60400	4,646	1682	238	15	37	66.6	17.21		8.67	3872.36	1.20	536.17		555.00	307635.00	15	8470.00
11/11/10 21:27	89600	64900	4,992	1652	238	15	37	66.6	17.21		9.31	3881.67	1.29	537.46		555.00	308190.00	15	8485.00
11/11/10 21:42	94400	67000	5,154	1641	238	15	36	64.8	17.21		9.35	3891.02	1.29	538.76		540.00	308730.00	15	8500.00
11/11/10 21:56	72000	67200	5,169	1649	238	15	35	63	19.36		8.51	3899.53	1.18	539.94		490.00	309220.00	14	8514.00
11/11/10 22:11	179200	79600	6,123	1645	238	15	37	66.6	17.21		11.42	3910.95	1.58	541.52		555.00	309775.00	15	8529.00
11/11/10 22:26	179200	79500	6,115	1654	238	15	35	63	15.06		10.79	3921.74	1.49	543.01		525.00	310300.00	15	8544.00
11/11/10 22:41	224000	52400	4,031	1672	238	15	32	57.6	17.21		6.50	3928.24	0.90	543.91		480.00	310780.00	15	8559.00
11/11/10 22:56	123200	67300	5,177	1680	238	15	37	66.6	17.21		9.66	3937.90	1.34	545.25		555.00	311335.00	15	8574.00
11/11/10 23:11	113600	70400	5,415	1658	238	16	35	63	15.06		9.55	3947.45	1.32	546.57		525.00	311860.00	15	8589.00
11/11/10 23:26	179200	75300	5,792	1670	238	16	36	64.8	17.21		10.51	3957.96	1.46	548.03		540.00	312400.00	15	8604.00
11/11/10 23:41	179200	78100	6,008	1688	238	16	36	64.8	15.06		10.90	3968.87	1.51	549.54		540.00	312940.00	15	8619.00
11/11/10 23:56	179200	73200	5,631	1658	238	16	37	66.6	17.21		10.50	3979.37	1.45	550.99		555.00	313495.00	15	8634.00
11/12/10 0:11	392000	60500	4,654	1661	238	16	34	61.2	15.06		7.98	3987.34	1.10	552.09		510.00	314005.00	15	8649.00
11/12/10 0:26	179200	73700	5,669	1637	238	15	36	64.8	17.21		10.29	3997.63	1.42	553.52		540.00	314545.00	15	8664.00
11/12/10 0:41	179200	78300	6,023	1667	238	15	37	66.6	17.21		11.23	4008.86	1.56	555.07		555.00	315100.00	15	8679.00
11/12/10 0:56	124800	69200	5,323	1672	238	15	37	66.6	17.21		9.93	4018.79	1.37	556.45		555.00	315655.00	15	8694.00
11/12/10 1:11	179200	79400	6,108	1639	238	16	36	64.8	19.36		11.08	4029.88	1.53	557.98		540.00	316195.00	15	8709.00
11/12/10 1:26	179200	76500	5,885	1641	238	17	35	63	17.21		10.38	4040.26	1.44	559.42		525.00	316720.00	15	8724.00
11/12/10 1:41	179200	74300	5,715	1652	238	16	37	66.6	17.21		10.66	4050.92	1.48	560.90		555.00	317275.00	15	8739.00
11/12/10 1:56	99200	69400	5,338	1648	238	16	34	61.2	19.36		9.15	4060.07	1.27	562.16		510.00	317785.00	15	8754.00
11/12/10 2:11	152000	67400	5,185	1669	238	16	36	64.8	21.51		9.41	4069.48	1.30	563.47		540.00	318325.00	15	8769.00
11/12/10 2:26	136000	68200	5,246	1664	238	16	35	63	19.36		9.26	4078.73	1.28	564.75		525.00	318850.00	15	8784.00
11/12/10 2:41	137600	70200	5,400	1663	238	16	35	63	17.21		9.53	4088.26	1.32	566.07		525.00	319375.00	15	8799.00
11/12/10 2:56	179200	71500	5,500	1637	238	16	35	63	17.21		9.70	4097.96	1.34	567.41		525.00	319900.00	15	8814.00
11/12/10 3:11	9600	62600	4,815	1659	238	16	34	61.2	19.36		8.25	4106.21	1.14	568.55		510.00	320410.00	15	8829.00
11/12/10 3:26	179200	75700	5,823	1657	238	15	37	66.6	17.21		10.86	4117.07	1.50	570.06		555.00	320965.00	15	8844.00
11/12/10 3:41	56000	62500	4,808	1651	238	15	36	64.8	19.36		8.72	4125.80	1.21	571.26		540.00	321505.00	15	8859.00
11/12/10 3:56	62400	68500	5,269	1633	238	15	35	63	19.36		9.30	4135.09	1.29	572.55		525.00	322030.00	15	8874.00
11/12/10 4:11	395200	59100	4,546	1643	238	16	35	63	17.21		8.02	4143.12	1.11	573.66		525.00	322555.00	15	8889.00
11/12/10 4:26	179200	80300	6,177	1682	238	15	36	64.8	17.21		11.21	4154.32	1.55	575.21		540.00	323095.00	15	8904.00
11/12/10 4:41	36800	62700	4,823	1638	238	15	36	64.8	17.21		8.75	4163.08	1.21	576.43		540.00	323635.00	15	8919.00
11/12/10 4:55	155200	73500	5,654	1664	238	15	35	63	19.36		9.31	4172.39	1.29	577.72		490.00	324125.00	14	8933.00
11/12/10 5:10	179200	82800	6,369	1677	238	15	36	64.8	19.36		11.56	4183.94	1.60	579.32		540.00	324665.00	15	8948.00
11/12/10 5:25	155200	75700	5,823	1662	238	16	34	61.2	19.36		9.98	4193.92	1.38	580.70		510.00	325175.00	15	8963.00
11/12/10 5:40	387200	65800	5,062	1637	238	15	33	59.4	19.36		8.42	4202.34	1.17	581.86		495.00	325670.00	15	8978.00
11/12/10 5:55	315200	50400	3,877	1654	238	15	38	68.4	17.21		7.43	4209.77	1.03	582.89		570.00	326240.00	15	8993.00
11/12/10 6:10	115200	68500	5,269	1669	238	15	37	66.6	19.36		9.83	4219.60	1.36	584.25		555.00	326795.00	15	9008.00
11/12/10 6:25	179200	74100	5,700	1638	238	16	35	63	19.36		10.06	4229.65	1.39	585.64		525.00	327320.00	15	9023.00
11/12/10 6:40	179200	76900	5,915	1642	238	15	36	64.8	19.36		10.73	4240.39	1.49	587.13		540.00	327860.00	15	9038.00
11/12/10 6:55	179200	76500	5,885	1637	238	15	36	64.8	17.21		10.68	4251.07	1.48	588.61		540.00	328400.00	15	9053.00
11/12/10 7:10	267200	49700	3,823	1629	238	15	35	63	17.21		6.74	4257.81	0.93	589.54		525.00	328925.00	15	9068.00
11/12/10 7:25	75200	67500	5,192	1657	238	15	35	63	17.21		9.16	4266.97	1.27	590.81		525.00	329450.00	15	9083.00
11/12/10 7:40	179200	77200	5,938	1651	238	14	38	68.4	19.36		11.37	4278.35	1.57	592.39		570.00	330020.00	15	9098.00
11/12/10 7:47	358400	58000	4,462	1642	238	14	34	61.2	17.21		3.57	4281.92	0.49	592.88		238.00	330258.00	7	9105.00
11/15/10 10:01	0	0	0	1676	0	48	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	0	9105.00
11/15/10 10:03	0	0	0	1692	0	46	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	0	9105.00
11/15/10 10:06	0	0	0	1690	0	46	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	0	9105.00
11/15/10 10:11	0	0	0	1670	0	46	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	0	9105.00
11/15/10 11:29	0	0	0	1648	0	39	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	0	9105.00
11/15/10 11:44	236800	854400	65,723	1639	216	41	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	15	9120.00
11/15/10 11:59	179200	999900	76,915	1654	432	51	0	0	0		0.00	4281.92	0.00	592.88		0.00	330258.00	15	9135.00
11/15/10 12:14	179200	999900	76,915	1639	46	57	0	0	4.3		0.00	4281.92	0.00	592.88		0.00	330258.00	15	9150.00
11/15/10 12:29	179200	999900	76,915	1632	142	57	0	0	4.3		0.00	4281.92	0.00	592.88		0.00	330258.00	15	9165.00
11/15/10 12:44	179200	999900	76,915	1668	198	52	4	7.2	6.45		15.51	4297.42	2.15	595.03		60.00	330318.00	15	9180.00
11/15/10 12:59	179200	546300	42,023	1663	238	52	5	9	8.6		10.59	4308.01	1.47	596.49		75.00	330393.00	15	9195.00
11/15/10 13:14	179200	423500	32,577	1643	238	51	3	5.4	10.76		4.93	4312.94	0.68	597.18		45.00	330438.00	15	9210.00
11/15/10 13:29	179200	717800	55,215	1675	238	49	7	12.6	8.6		19.48	4332.42	2.70	599.87		105.00	330543.00	15	9225.00
11/15/10 13:44	179200	246500	18,962	1654	238	45	10	18	10.76		9.56	4341.98	1.32	601.20		150.00	330693.00	15	9240.00
11/15/10 13:59	206400	232400	17,877	1642	238	45	6	10.8	10.76		5.41	4347.39	0.75	601.95		90.00	330783.00	15	

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/15/10 14:59	118400	154900	11,915	1661	238	36	16	28.8	17.21		9.61	4385.19	1.33	607.18		240.00	331653.00	15	9315.00
11/15/10 15:13	28800	149400	11,492	1667	238	34	19	34.2	17.21		10.27	4395.47	1.42	608.60		266.00	331919.00	14	9329.00
11/15/10 15:28	179200	134700	10,362	1663	238	33	23	41.4	15.06		12.01	4407.48	1.66	610.27		345.00	332264.00	15	9344.00
11/15/10 15:43	179200	133000	10,231	1651	238	32	23	41.4	12.91		11.86	4419.34	1.64	611.91		345.00	332609.00	15	9359.00
11/15/10 15:58	179200	122500	9,423	1650	238	32	23	41.4	17.21		10.92	4430.27	1.51	613.42		345.00	332954.00	15	9374.00
11/15/10 16:13	179200	124100	9,546	1655	238	31	24	43.2	17.21		11.55	4441.81	1.60	615.02		360.00	333314.00	15	9389.00
11/15/10 16:28	179200	110200	8,477	1682	238	29	24	43.2	17.21		10.26	4452.07	1.42	616.44		360.00	333674.00	15	9404.00
11/15/10 16:43	179200	109800	8,446	1663	238	28	26	46.8	17.21		11.07	4463.14	1.53	617.97		390.00	334064.00	15	9419.00
11/15/10 16:58	179200	122100	9,392	1654	238	29	26	46.8	17.21		12.31	4475.45	1.70	619.68		390.00	334454.00	15	9434.00
11/15/10 17:13	179200	122200	9,400	1653	238	31	24	43.2	12.91		11.37	4486.82	1.57	621.25		360.00	334814.00	15	9449.00
11/15/10 17:28	179200	115400	8,877	1677	238	29	25	45	15.06		11.19	4498.01	1.55	622.80		375.00	335189.00	15	9464.00
11/15/10 17:43	156800	95400	7,338	1645	238	28	27	48.6	12.91		9.99	4507.99	1.38	624.18		405.00	335594.00	15	9479.00
11/15/10 17:58	179200	105900	8,146	1666	238	28	26	46.8	17.21		10.68	4518.67	1.48	625.66		390.00	335984.00	15	9494.00
11/15/10 18:13	132800	100500	7,731	1650	238	28	25	45	15.06		9.74	4528.41	1.35	627.01		375.00	336359.00	15	9509.00
11/15/10 18:15	179200	118100	9,085	1647	238	28	27	48.6	15.06		1.65	4530.06	0.23	627.24		54.00	336413.00	2	9511.00
11/16/10 21:08	156,800	51,600	3,969	1650	238	26	29	52.2	17.21		623.93	5154.00	86.39	713.63		46777.00	383190.00	1613	11124.00
11/16/10 21:23	280,000	27,400	2,108	1657	238	28	26	46.8	19.36		2.76	5156.76	0.38	714.01		390.00	383580.00	15	11139.00
11/16/10 21:38	169,600	61,200	4,708	1661	238	29	26	46.8	17.21		6.17	5162.93	0.85	714.87		390.00	383970.00	15	11154.00
11/16/10 21:53	48,000	48,400	3,723	1662	238	31	25	45	17.21		4.69	5167.62	0.65	715.52		375.00	384345.00	15	11169.00
11/16/10 22:08	160,000	20,100	1,546	1659	238	30	22	39.6	17.21		1.71	5169.33	0.24	715.75		330.00	384675.00	15	11184.00
11/16/10 22:23	116,800	58,000	4,462	1639	238	33	23	41.4	15.06		5.17	5174.51	0.72	716.47		345.00	385020.00	15	11199.00
11/16/10 22:38	51,200	55,300	4,254	1652	238	32	23	41.4	15.06		4.93	5179.44	0.68	717.15		345.00	385365.00	15	11214.00
11/16/10 22:53	276,800	36,600	2,815	1649	238	33	20	36	15.06		2.84	5182.28	0.39	717.55		300.00	385665.00	15	11229.00
11/16/10 23:08	307,200	38,600	2,969	1651	238	34	21	37.8	12.91		3.14	5185.42	0.44	717.98		315.00	385980.00	15	11244.00
11/16/10 23:23	200,000	64,400	4,954	1647	238	32	25	45	15.06		6.24	5191.66	0.86	718.85		375.00	386355.00	15	11259.00
11/16/10 23:38	372,800	54,800	4,215	1642	238	36	19	34.2	12.91		4.04	5195.70	0.56	719.40		285.00	386640.00	15	11274.00
11/16/10 23:53	132,800	62,300	4,792	1674	238	35	22	39.6	15.06		5.31	5201.01	0.74	720.14		330.00	386970.00	15	11289.00
11/17/10 0:08	54,400	55,700	4,285	1656	238	31	23	41.4	10.76		4.97	5205.98	0.69	720.83		345.00	387315.00	15	11304.00
11/17/10 0:23	392,000	49,400	3,800	1639	238	34	20	36	12.91		3.83	5209.81	0.53	721.36		300.00	387615.00	15	11319.00
11/17/10 0:38	88,000	65,700	5,054	1663	238	34	22	39.6	12.91		5.60	5215.42	0.78	722.13		330.00	387945.00	15	11334.00
11/17/10 0:53	360,000	43,200	3,323	1642	238	34	20	36	17.21		3.35	5218.77	0.46	722.60		300.00	388245.00	15	11349.00
11/17/10 1:08	184,000	62,800	4,831	1641	238	31	25	45	17.21		6.09	5224.85	0.84	723.44		375.00	388620.00	15	11364.00
11/17/10 1:23	142,400	56,000	4,308	1641	238	30	26	46.8	15.06		5.65	5230.50	0.78	724.22		390.00	389010.00	15	11379.00
11/17/10 1:38	179,200	57,600	4,431	1666	238	29	27	48.6	12.91		6.03	5236.53	0.83	725.06		405.00	389415.00	15	11394.00
11/17/10 1:53	331,200	46,100	3,546	1645	238	34	16	28.8	15.06		2.86	5239.39	0.40	725.45		240.00	389655.00	15	11409.00
11/17/10 2:08	222,400	72,600	5,585	1656	238	33	23	41.4	15.06		6.47	5245.87	0.90	726.35		345.00	390000.00	15	11424.00
11/17/10 2:23	305,600	32,300	2,485	1643	238	28	25	45	17.21		3.13	5249.00	0.43	726.78		375.00	390375.00	15	11439.00
11/17/10 2:38	83,200	59,300	4,562	1680	238	33	22	39.6	15.06		5.06	5254.05	0.70	727.48		330.00	390705.00	15	11454.00
11/17/10 2:53	166,400	80,100	6,162	1661	238	35	19	34.2	15.06		5.90	5259.96	0.82	728.30		285.00	390990.00	15	11469.00
11/17/10 3:08	120,000	58,400	4,492	1676	238	31	24	43.2	17.21		5.43	5265.39	0.75	729.05		360.00	391350.00	15	11484.00
11/17/10 3:23	200,000	64,400	4,954	1661	238	31	25	45	15.06		6.24	5271.63	0.86	729.92		375.00	391725.00	15	11499.00
11/17/10 3:37	272,000	30,000	2,308	1657	238	27	25	45	17.21		2.71	5274.35	0.38	730.29		350.00	392075.00	14	11513.00
11/17/10 3:52	57,600	47,500	3,654	1666	238	28	26	46.8	17.21		4.79	5279.14	0.66	730.96		390.00	392465.00	15	11528.00
11/17/10 4:07	76,800	58,400	4,492	1651	238	36	20	36	15.06		4.53	5283.67	0.63	731.58		300.00	392765.00	15	11543.00
11/17/10 4:22	368,000	37,500	2,885	1675	238	27	26	46.8	17.21		3.78	5287.45	0.52	732.11		390.00	393155.00	15	11558.00
11/17/10 4:37	48,000	50,400	3,877	1664	238	31	24	43.2	12.91		4.69	5292.14	0.65	732.76		360.00	393515.00	15	11573.00
11/17/10 4:52	81,600	51,900	3,992	1658	238	30	25	45	17.21		5.03	5297.17	0.70	733.45		375.00	393890.00	15	11588.00
11/17/10 5:07	220,800	64,000	4,923	1644	238	30	26	46.8	17.21		6.45	5303.62	0.89	734.35		390.00	394280.00	15	11603.00
11/17/10 5:22	76,800	51,300	3,946	1660	238	29	25	45	17.21		4.97	5308.59	0.69	735.04		375.00	394655.00	15	11618.00
11/17/10 5:37	104,000	56,600	4,354	1632	238	30	24	43.2	17.21		5.27	5313.86	0.73	735.77		360.00	395015.00	15	11633.00
11/17/10 5:52	147,200	58,900	4,531	1658	238	29	26	46.8	17.21		5.94	5319.80	0.82	736.59		390.00	395405.00	15	11648.00
11/17/10 6:07	17,600	49,000	3,769	1650	238	32	22	39.6	15.06		4.18	5323.98	0.58	737.17		330.00	395735.00	15	11663.00
11/17/10 6:22	54,400	58,400	4,492	1667	238	31	23	41.4	15.06		5.21	5329.19	0.72	737.89		345.00	396080.00	15	11678.00
11/17/10 6:37	54,400	58,400	4,492	1667	238	31	22	39.6	15.06		4.98	5334.17	0.69	738.58		330.00	396410.00	15	11693.00
11/17/10 6:52	132,800	62,400	4,800	1666	238	31	24	43.2	15.06		5.81	5339.97	0.80	739.38		360.00	396770.00	15	11708.00
11/17/10 7:07	65,600	57,000	4,385	1637	238	32	22	39.6	15.06		4.86	5344.84	0.67	740.05		330.00	397100.00	15	11723.00
11/17/10 7:22	16,000	44,900	3,454	1661	236	28	24	43.2	17.21		4.18	5349.01	0.58	740.63		360.00	397460.00	15	11738.00
11/17/10 7:37	113,600	49,400	3,800	1658	238	26	26	46.8	17.21		4.98	5353.99	0.69	741.32		390.00	397850.00	15	11753.00
11/17/10 7:52	270,400	25,600	1,969	1676	238	26	28	50.4	19.36		2.78	5356.77	0.38	741.71		420.00	398270.00	15	11768.00
11/17/10 8:07	291,200	32,000	2,462	1651	238	25	25	45	15.06		3.10	5359.88	0.43	742.14		375.00	398645.00	15	11783.00
11/17/10 8:22	390,400	34,400	2,646	1664	238</														

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/17/10 9:37	377,600	30,200	2,323	1661	238	18	34	61.2	17.21		3.98	5386.82	0.55	745.87		510.00	401510.00	15	11873.00
11/17/10 9:52	30,400	36,300	2,792	1667	238	20	33	59.4	19.36		4.64	5391.46	0.64	746.51		495.00	402005.00	15	11888.00
11/17/10 10:07	24,000	36,900	2,838	1648	238	20	31	55.8	17.21		4.44	5395.90	0.61	747.12		465.00	402470.00	15	11903.00
11/17/10 10:22	400,000	34,000	2,615	1645	238	21	30	54	19.36		3.96	5399.85	0.55	747.67		450.00	402920.00	15	11918.00
11/17/10 10:36	376,000	30,100	2,315	1662	238	18	34	61.2	17.21		3.70	5403.55	0.51	748.18		476.00	403396.00	14	11932.00
11/17/10 10:51	30,400	37,600	2,892	1665	238	21	32	57.6	19.36		4.67	5408.22	0.65	748.83		480.00	403876.00	15	11947.00
11/17/10 11:06	331,200	29,200	2,246	1683	238	21	31	55.8	12.91		3.51	5411.73	0.49	749.32		465.00	404341.00	15	11962.00
11/17/10 11:21	392,000	30,400	2,338	1657	238	18	34	61.2	19.36		4.01	5415.74	0.55	749.87		510.00	404851.00	15	11977.00
11/17/10 11:36	252,800	19,100	1,469	1662	238	17	35	63	19.36		2.59	5418.33	0.36	750.23		525.00	405376.00	15	11992.00
11/17/10 11:51	14,400	35,000	2,692	1640	238	18	34	61.2	19.36		4.61	5422.94	0.64	750.87		510.00	405886.00	15	12007.00
11/17/10 12:06	382,400	30,600	2,354	1662	238	18	34	61.2	17.21		4.03	5426.98	0.56	751.43		510.00	406396.00	15	12022.00
11/17/10 12:21	392,000	28,800	2,215	1655	238	17	36	64.8	19.36		4.02	5431.00	0.56	751.98		540.00	406936.00	15	12037.00
11/17/10 12:36	337,600	26,300	2,023	1672	238	17	35	63	17.21		3.57	5434.57	0.49	752.48		525.00	407461.00	15	12052.00
11/17/10 12:51	134,400	10,500	808	1675	238	15	34	61.2	21.51		1.38	5435.95	0.19	752.67		510.00	407971.00	15	12067.00
11/17/10 13:06	182,400	41,100	3,162	1642	238	15	37	66.6	19.36		5.90	5441.85	0.82	753.49		555.00	408526.00	15	12082.00
11/17/10 13:21	112,000	37,200	2,862	1650	238	15	36	64.8	19.36		5.19	5447.04	0.72	754.21		540.00	409066.00	15	12097.00
11/17/10 13:36	232,000	47,100	3,623	1644	238	18	35	63	17.21		6.39	5453.43	0.89	755.09		525.00	409591.00	15	12112.00
11/17/10 13:51	102,400	37,600	2,892	1622	238	17	35	63	19.36		5.10	5458.54	0.71	755.80		525.00	410116.00	15	12127.00
11/17/10 14:06	320,000	22,900	1,762	1655	238	16	37	66.6	19.36		3.29	5461.82	0.45	756.25		555.00	410671.00	15	12142.00
11/17/10 14:21	40,000	30,400	2,338	1665	238	13	39	70.2	19.36		4.60	5466.42	0.64	756.89		585.00	411256.00	15	12157.00
11/17/10 14:36	83,200	36,100	2,777	1650	238	15	36	64.8	19.36		5.04	5471.46	0.70	757.59		540.00	411796.00	15	12172.00
11/17/10 14:51	96,000	34,200	2,631	1653	238	14	39	70.2	19.36		5.17	5476.63	0.72	758.30		585.00	412381.00	15	12187.00
11/17/10 15:06	129,600	38,500	2,962	1649	238	15	37	66.6	19.36		5.52	5482.15	0.76	759.07		555.00	412936.00	15	12202.00
11/17/10 15:21	121,600	35,900	2,762	1646	238	14	38	68.4	21.51		5.29	5487.44	0.73	759.80		570.00	413506.00	15	12217.00
11/17/10 15:36	105,600	34,900	2,685	1653	238	15	38	68.4	19.36		5.14	5492.58	0.71	760.51		570.00	414076.00	15	12232.00
11/17/10 15:51	398,400	27,700	2,131	1642	238	14	37	66.6	19.36		3.97	5496.56	0.55	761.06		555.00	414631.00	15	12247.00
11/17/10 16:06	204,800	41,600	3,200	1654	238	13	40	72	19.36		6.45	5503.01	0.89	761.96		600.00	415231.00	15	12262.00
11/17/10 16:21	32,000	29,100	2,238	1665	238	12	40	72	21.51		4.51	5507.52	0.62	762.58		600.00	415831.00	15	12277.00
11/17/10 16:36	73,600	31,900	2,454	1642	238	12	38	68.4	21.51		4.70	5512.22	0.65	763.23		570.00	416401.00	15	12292.00
11/17/10 16:51	275,200	20,200	1,554	1655	238	12	36	64.8	19.36		2.82	5515.04	0.39	763.62		540.00	416941.00	15	12307.00
11/17/10 17:06	9,600	27,000	2,077	1640	238	11	40	72	17.21		4.19	5519.23	0.58	764.20		600.00	417541.00	15	12322.00
11/17/10 17:21	264,000	17,400	1,338	1640	238	10	39	70.2	19.36		2.63	5521.86	0.36	764.57		585.00	418126.00	15	12337.00
11/17/10 17:35	32,000	29,200	2,246	1664	238	10	41	73.8	19.36		4.33	5526.20	0.60	765.17		574.00	418700.00	14	12351.00
11/17/10 17:50	144,000	35,600	2,738	1631	238	9	41	73.8	19.36		5.66	5531.85	0.78	765.95		615.00	419315.00	15	12366.00
11/17/10 18:05	89,600	30,700	2,362	1659	238	9	42	75.6	21.51		5.00	5536.85	0.69	766.64		630.00	419945.00	15	12381.00
11/17/10 18:20	152,000	36,200	2,785	1665	238	9	42	75.6	19.36		5.90	5542.75	0.82	767.46		630.00	420575.00	15	12396.00
11/17/10 18:35	3,200	26,500	2,038	1635	238	9	41	73.8	17.21		4.21	5546.96	0.58	768.04		615.00	421190.00	15	12411.00
11/17/10 18:50	332,800	21,400	1,646	1665	238	10	41	73.8	17.21		3.40	5550.36	0.47	768.51		615.00	421805.00	15	12426.00
11/17/10 19:05	89,600	6,100	469	1673	238	9	38	68.4	19.36		0.90	5551.26	0.12	768.64		570.00	422375.00	15	12441.00
11/17/10 19:20	64,000	30,500	2,346	1641	238	10	40	72	17.21		4.73	5555.99	0.65	769.29		600.00	422975.00	15	12456.00
11/17/10 19:35	118,400	34,000	2,615	1645	238	10	40	72	19.36		5.27	5561.27	0.73	770.02		600.00	423575.00	15	12471.00
11/17/10 19:50	262,400	17,700	1,362	1655	238	9	40	72	21.51		2.75	5564.01	0.38	770.40		600.00	424175.00	15	12486.00
11/17/10 20:05	267,200	18,100	1,392	1646	238	10	39	70.2	17.21		2.74	5566.75	0.38	770.78		585.00	424760.00	15	12501.00
11/17/10 20:20	377,600	25,600	1,969	1663	238	10	39	70.2	21.51		3.87	5570.62	0.54	771.32		585.00	425345.00	15	12516.00
11/17/10 20:35	57,600	30,100	2,315	1661	238	10	40	72	19.36		4.67	5575.29	0.65	771.96		600.00	425945.00	15	12531.00
11/17/10 20:50	406,400	27,500	2,115	1647	238	10	40	72	19.36		4.27	5579.55	0.59	772.55		600.00	426545.00	15	12546.00
11/17/10 21:05	73,600	31,100	2,392	1664	238	10	40	72	21.51		4.82	5584.38	0.67	773.22		600.00	427145.00	15	12561.00
11/17/10 21:20	296,000	19,500	1,500	1665	238	10	39	70.2	21.51		2.95	5587.33	0.41	773.63		585.00	427730.00	15	12576.00
11/17/10 21:35	91,200	30,700	2,362	1643	238	11	41	73.8	19.36		4.88	5592.21	0.68	774.31		615.00	428345.00	15	12591.00
11/17/10 21:50	68,800	30,800	2,369	1656	238	10	40	72	19.36		4.78	5596.98	0.66	774.97		600.00	428945.00	15	12606.00
11/17/10 22:05	113,600	34,500	2,654	1670	238	10	41	73.8	19.36		5.48	5602.47	0.76	775.73		615.00	429560.00	15	12621.00
11/17/10 22:20	384,000	26,000	2,000	1651	238	11	39	70.2	21.51		3.93	5606.40	0.54	776.27		585.00	430145.00	15	12636.00
11/17/10 22:35	347,200	24,200	1,862	1659	238	11	38	68.4	17.21		3.57	5609.97	0.49	776.76		570.00	430715.00	15	12651.00
11/17/10 22:50	52,800	29,800	2,292	1656	238	11	41	73.8	17.21		4.74	5614.70	0.66	777.42		615.00	431330.00	15	12666.00
11/17/10 23:05	320,000	22,200	1,708	1673	238	10	39	70.2	19.36		3.36	5618.06	0.46	777.89		585.00	431915.00	15	12681.00
11/17/10 23:20	38,400	2,700	208	1653	238	11	36	64.8	17.21		0.38	5618.44	0.05	777.94		540.00	432455.00	15	12696.00
11/17/10 23:35	4,800	28,100	2,162	1648	238	11	40	72	19.36		4.36	5622.80	0.60	778.54		600.00	433055.00	15	12711.00
11/17/10 23:50	369,600	25,700	1,977	1647	238	11	38	68.4	19.36		3.79	5626.58	0.52	779.07		570.00	433625.00	15	12726.00
11/18/10 0:05	246,400	16,700	1,285	1651	238	11	38	68.4	17.21		2.46	5629.04	0.34	779.41		570.00	434195.00	15	12741.00
11/18/10 0:20	209,600	14,900	1,146	1673	238	12	37	66.6	21.51		2.14	5631.18	0.30	779.70		555.00	434750.00	15	12756.00
11/18/10 0:34	30,400	31,400	2,415																

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE- Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/18/10 1:49	128,000	36,400	2,800	1666	238	12	38	68.4	21.51		5.36	5654.25	0.74	782.90		570.00	438190.00	15	12845.00
11/18/10 2:04	57,600	31,600	2,431	1649	238	12	39	70.2	17.21		4.78	5659.03	0.66	783.56		585.00	438775.00	15	12860.00
11/18/10 2:19	59,200	31,000	2,385	1664	238	12	39	70.2	17.21		4.69	5663.71	0.65	784.21		585.00	439360.00	15	12875.00
11/18/10 2:34	355,200	24,700	1,900	1642	238	12	38	68.4	17.21		3.64	5667.35	0.50	784.71		570.00	439930.00	15	12890.00
11/18/10 2:49	56,000	31,600	2,431	1633	238	11	40	72	19.36		4.90	5672.25	0.68	785.39		600.00	440530.00	15	12905.00
11/18/10 3:04	337,600	23,500	1,808	1627	238	12	38	68.4	17.21		3.46	5675.72	0.48	785.87		570.00	441100.00	15	12920.00
11/18/10 3:19	27,200	28,800	2,215	1649	238	13	39	70.2	21.51		4.36	5680.07	0.60	786.47		585.00	441685.00	15	12935.00
11/18/10 3:34	22,400	28,600	2,200	1665	238	11	40	72	19.36		4.44	5684.51	0.61	787.09		600.00	442285.00	15	12950.00
11/18/10 3:49	84,800	31,900	2,454	1653	238	12	40	72	19.36		4.95	5689.46	0.69	787.77		600.00	442885.00	15	12965.00
11/18/10 4:04	110,400	33,500	2,577	1674	238	11	41	73.8	17.21		5.33	5694.78	0.74	788.51		615.00	443500.00	15	12980.00
11/18/10 4:19	283,200	19,600	1,508	1652	238	11	39	70.2	19.36		2.96	5697.75	0.41	788.92		585.00	444085.00	15	12995.00
11/18/10 4:34	241,600	16,800	1,292	1652	238	11	37	66.6	19.36		2.41	5700.16	0.33	789.25		555.00	444640.00	15	13010.00
11/18/10 4:49	216,000	15,000	1,154	1663	238	10	38	68.4	19.36		2.21	5702.37	0.31	789.56		570.00	445210.00	15	13025.00
11/18/10 5:04	289,600	19,200	1,477	1653	238	11	39	70.2	21.51		2.90	5705.27	0.40	789.96		585.00	445795.00	15	13040.00
11/18/10 5:19	268,800	19,700	1,515	1659	238	11	36	64.8	17.21		2.75	5708.02	0.38	790.34		540.00	446335.00	15	13055.00
11/18/10 5:34	345,600	23,400	1,800	1652	238	10	39	70.2	23.66		3.54	5711.56	0.49	790.83		585.00	446920.00	15	13070.00
11/18/10 5:49	296,000	20,500	1,577	1633	238	11	39	70.2	19.36		3.10	5714.66	0.43	791.26		585.00	447505.00	15	13085.00
11/18/10 6:04	166,400	36,200	2,785	1630	238	10	42	75.6	17.21		5.90	5720.55	0.82	792.08		630.00	448135.00	15	13100.00
11/18/10 6:19	94,400	32,400	2,492	1653	238	10	40	72	17.21		5.03	5725.58	0.70	792.77		600.00	448735.00	15	13115.00
11/18/10 6:34	80,000	31,500	2,423	1680	238	10	42	75.6	19.36		5.13	5730.71	0.71	793.48		630.00	449365.00	15	13130.00
11/18/10 6:49	8,000	29,800	2,292	1656	238	10	38	68.4	17.21		4.39	5735.10	0.61	794.09		570.00	449935.00	15	13145.00
11/18/10 7:04	233,600	16,200	1,246	1660	238	10	39	70.2	19.36		2.45	5737.55	0.34	794.43		585.00	450520.00	15	13160.00
11/18/10 7:19	132,800	35,800	2,754	1657	238	10	40	72	21.51		5.55	5743.10	0.77	795.20		600.00	451120.00	15	13175.00
11/18/10 7:33	92,800	33,100	2,546	1629	238	10	40	72	21.51		4.79	5747.89	0.66	795.86		560.00	451680.00	14	13189.00
11/18/10 7:48	105,600	34,000	2,615	1676	238	10	41	73.8	17.21		5.41	5753.30	0.75	796.61		615.00	452295.00	15	13204.00
11/18/10 8:03	396,800	25,600	1,969	1660	238	9	41	73.8	19.36		4.07	5757.37	0.56	797.17		615.00	452910.00	15	13219.00
11/18/10 8:18	334,400	22,100	1,700	1646	238	9	39	70.2	19.36		3.34	5760.71	0.46	797.64		585.00	453495.00	15	13234.00
11/18/10 8:33	308,800	19,900	1,531	1640	238	9	41	73.8	19.36		3.16	5763.87	0.44	798.07		615.00	454110.00	15	13249.00
11/18/10 8:48	97,600	32,700	2,515	1657	238	10	40	72	21.51		5.07	5768.95	0.70	798.78		600.00	454710.00	15	13264.00
11/18/10 9:03	24,000	27,900	2,146	1658	238	9	41	73.8	17.21		4.44	5773.38	0.61	799.39		615.00	455325.00	15	13279.00
11/18/10 9:18	294,400	20,000	1,538	1659	238	10	39	70.2	19.36		3.02	5776.40	0.42	799.81		585.00	455910.00	15	13294.00
11/18/10 9:33	59,200	30,200	2,323	1634	238	10	41	73.8	19.36		4.80	5781.21	0.66	800.47		615.00	456525.00	15	13309.00
11/18/10 9:48	75,200	30,500	2,346	1661	238	9	41	73.8	21.51		4.85	5786.05	0.67	801.15		615.00	457140.00	15	13324.00
11/18/10 10:03	321,600	22,400	1,723	1639	238	9	40	72	19.36		3.47	5789.53	0.48	801.63		600.00	457740.00	15	13339.00
11/18/10 10:18	44,800	30,800	2,369	1657	238	10	39	70.2	19.36		4.66	5794.19	0.64	802.27		585.00	458325.00	15	13354.00
11/18/10 10:33	76,800	32,900	2,531	1638	238	10	39	70.2	17.21		4.98	5799.16	0.69	802.96		585.00	458910.00	15	13369.00
11/18/10 10:48	388,800	27,000	2,077	1671	238	12	38	68.4	19.36		3.98	5803.14	0.55	803.51		570.00	459480.00	15	13384.00
11/18/10 11:03	168,000	39,100	3,008	1661	238	12	39	70.2	21.51		5.91	5809.05	0.82	804.33		585.00	460065.00	15	13399.00
11/18/10 11:18	60,800	31,900	2,454	1668	238	11	39	70.2	19.36		4.82	5813.88	0.67	805.00		585.00	460650.00	15	13414.00
11/18/10 11:33	360,000	25,100	1,931	1672	238	11	38	68.4	21.51		3.70	5817.58	0.51	805.51		570.00	461220.00	15	13429.00
11/18/10 11:48	153,600	36,200	2,785	1641	238	10	41	73.8	21.51		5.75	5823.33	0.80	806.31		615.00	461835.00	15	13444.00
11/18/10 12:03	321,600	24,300	1,869	1634	238	12	34	61.2	17.21		3.20	5826.53	0.44	806.75		510.00	462345.00	15	13459.00
11/18/10 12:18	260,800	17,700	1,362	1649	238	12	39	70.2	17.21		2.68	5829.21	0.37	807.12		585.00	462930.00	15	13474.00
11/18/10 12:33	372,800	24,600	1,892	1669	238	12	41	73.8	21.51		3.91	5833.12	0.54	807.66		615.00	463545.00	15	13489.00
11/18/10 12:48	113,600	33,700	2,592	1643	238	11	41	73.8	21.51		5.36	5838.48	0.74	808.40		615.00	464160.00	15	13504.00
11/18/10 13:03	0	27,100	2,085	1633	238	12	39	70.2	19.36		4.10	5842.58	0.57	808.97		585.00	464745.00	15	13519.00
11/18/10 13:18	62,400	32,800	2,523	1654	238	13	37	66.6	17.21		4.71	5847.28	0.65	809.62		555.00	465300.00	15	13534.00
11/18/10 13:33	302,400	21,000	1,615	1622	238	14	37	66.6	19.36		3.01	5850.30	0.42	810.04		555.00	465855.00	15	13549.00
11/18/10 13:48	364,800	26,700	2,054	1673	238	14	36	64.8	19.36		3.73	5854.02	0.52	810.56		540.00	466395.00	15	13564.00
11/18/10 14:03	38,400	29,600	2,277	1659	238	11	41	73.8	17.21		4.71	5858.73	0.65	811.21		615.00	467010.00	15	13579.00
11/18/10 14:18	0	27,700	2,131	1664	238	10	41	73.8	19.36		4.40	5863.13	0.61	811.82		615.00	467625.00	15	13594.00
11/18/10 14:32	19,200	28,300	2,177	1648	238	10	40	72	21.51		4.10	5867.23	0.57	812.39		560.00	468185.00	14	13608.00
11/18/10 14:35	376,000	26,100	2,008	1628	238	11	38	68.4	21.51		0.77	5868.00	0.11	812.49		114.00	468299.00	3	13611.00
11/18/10 15:13	0	0	0	1653	0	33	0	0	0		0.00	5868.00	0.00	812.49		0.00	468299.00	0	13611.00
11/18/10 15:28	118,400	44,800	3,446	1672	216	25	8	14.4	0		1.39	5869.39	0.19	812.68		120.00	468419.00	15	13626.00
11/18/10 15:43	48,000	46,500	3,577	1644	434	16	25	45	10.76		4.51	5873.89	0.62	813.31		375.00	468794.00	15	13641.00
11/18/10 15:58	179,200	42,000	3,231	1660	138	13	38	68.4	15.06		6.19	5880.08	0.86	814.17		570.00	469364.00	15	13656.00
11/18/10 16:13	230,400	43,400	3,338	1661	238	12	40	72	17.21		6.73	5886.81	0.93	815.10		600.00	469964.00	15	13671.00
11/18/10 16:28	326,400	21,500	1,654	1656	238	10	40	72	19.36		3.33	5890.15	0.46	815.56		600.00	470564.00	15	13686.00
11/18/10 16:43	108,800	34,200	2,631	1645	238	10	40	72	19.36		5.30	5895.45	0.73	816.29		600.00	471164.00	15	13701.00
11/18/10 16:58	160,000	36,700	2,823	1															

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/18/10 18:13	14,400	26,600	2,046	1647	238	7	41	73.8	23.66		4.23	5929.27	0.59	820.98		615.00	474944.00	15	13791.00
11/18/10 18:27	48,000	28,800	2,215	1643	238	7	42	75.6	21.51		4.38	5933.65	0.61	821.58		588.00	475532.00	14	13805.00
11/18/10 18:42	155,200	33,900	2,608	1660	238	6	44	79.2	21.51		5.78	5939.43	0.80	822.38		660.00	476192.00	15	13820.00
11/18/10 18:57	118,400	33,200	2,554	1645	238	8	42	75.6	19.36		5.41	5944.84	0.75	823.13		630.00	476822.00	15	13835.00
11/18/10 19:12	81,600	29,500	2,269	1673	238	5	45	81	19.36		5.15	5949.99	0.71	823.84		675.00	477497.00	15	13850.00
11/18/10 19:27	81,600	30,100	2,315	1678	238	5	44	79.2	21.51		5.14	5955.12	0.71	824.56		660.00	478157.00	15	13865.00
11/18/10 19:42	75,200	29,100	2,238	1658	236	6	44	79.2	23.66		4.96	5960.09	0.69	825.24		660.00	478817.00	15	13880.00
11/18/10 19:57	124,800	34,400	2,646	1659	238	7	41	73.8	19.36		5.47	5965.56	0.76	826.00		615.00	479432.00	15	13895.00
11/18/10 20:12	9,600	25,100	1,931	1659	238	6	44	79.2	21.51		4.28	5969.84	0.59	826.59		660.00	480092.00	15	13910.00
11/18/10 20:27	43,200	27,200	2,092	1658	238	6	43	77.4	19.36		4.54	5974.37	0.63	827.22		645.00	480737.00	15	13925.00
11/18/10 20:42	195,200	35,500	2,731	1665	238	6	45	81	19.36		6.19	5980.57	0.86	828.08		675.00	481412.00	15	13940.00
11/18/10 20:57	380,800	23,900	1,838	1675	238	6	42	75.6	17.21		3.89	5984.46	0.54	828.62		630.00	482042.00	15	13955.00
11/18/10 21:12	80,000	30,100	2,315	1653	238	7	43	77.4	17.21		5.02	5989.48	0.69	829.31		645.00	482687.00	15	13970.00
11/18/10 21:27	195,200	36,300	2,792	1660	238	7	44	79.2	19.36		6.19	5995.67	0.86	830.17		660.00	483347.00	15	13985.00
11/18/10 21:42	195,200	36,300	2,792	1636	238	6	44	79.2	19.36		6.19	6001.86	0.86	831.03		660.00	484007.00	15	14000.00
11/18/10 21:57	190,400	36,800	2,831	1652	238	7	43	77.4	19.36		6.14	6008.00	0.85	831.88		645.00	484652.00	15	14015.00
11/18/10 22:12	46,400	29,300	2,254	1620	238	6	40	72	19.36		4.54	6012.54	0.63	832.51		600.00	485252.00	15	14030.00
11/18/10 22:27	115,200	34,600	2,662	1630	236	8	40	72	23.66		5.37	6017.91	0.74	833.25		600.00	485852.00	15	14045.00
11/18/10 22:42	30,400	27,000	2,077	1660	238	6	42	75.6	21.51		4.40	6022.31	0.61	833.86		630.00	486482.00	15	14060.00
11/18/10 22:57	25,600	27,400	2,108	1632	238	7	42	75.6	21.51		4.46	6026.77	0.62	834.48		630.00	487112.00	15	14075.00
11/18/10 23:12	195,200	36,300	2,792	1634	238	6	44	79.2	19.36		6.19	6032.96	0.86	835.33		660.00	487772.00	15	14090.00
11/18/10 23:27	232,000	15,300	1,177	1648	234	7	40	72	23.66		2.37	6035.34	0.33	835.66		600.00	488372.00	15	14105.00
11/18/10 23:42	84,800	31,100	2,392	1666	238	7	42	75.6	19.36		5.06	6040.40	0.70	836.36		630.00	489002.00	15	14120.00
11/18/10 23:57	334,400	21,500	1,654	1669	238	6	41	73.8	19.36		3.42	6043.82	0.47	836.84		615.00	489617.00	15	14135.00
11/19/10 0:12	204,800	36,900	2,838	1655	238	6	44	79.2	19.36		6.30	6050.11	0.87	837.71		660.00	490277.00	15	14150.00
11/19/10 0:27	161,600	34,300	2,638	1654	238	6	44	79.2	19.36		5.85	6055.97	0.81	838.52		660.00	490937.00	15	14165.00
11/19/10 0:42	368,000	21,100	1,623	1669	238	5	46	82.8	19.36		3.76	6059.73	0.52	839.04		690.00	491627.00	15	14180.00
11/19/10 0:57	33,600	27,900	2,146	1669	238	7	43	77.4	19.36		4.65	6064.38	0.64	839.68		645.00	492272.00	15	14195.00
11/19/10 1:12	321,600	19,700	1,515	1646	238	5	44	79.2	19.36		3.36	6067.74	0.47	840.15		660.00	492932.00	15	14210.00
11/19/10 1:26	267,200	16,800	1,292	1649	238	5	42	75.6	19.36		2.55	6070.30	0.35	840.50		588.00	493520.00	14	14224.00
11/19/10 1:41	272,000	17,100	1,315	1662	238	5	43	77.4	21.51		2.85	6073.15	0.39	840.90		645.00	494165.00	15	14239.00
11/19/10 1:56	76,800	27,300	2,100	1659	238	4	46	82.8	23.66		4.87	6078.02	0.67	841.57		690.00	494855.00	15	14254.00
11/19/10 2:11	153,600	32,300	2,485	1692	236	3	48	86.4	19.36		6.01	6084.03	0.83	842.40		720.00	495575.00	15	14269.00
11/19/10 2:26	86,400	5,400	415	1658	238	3	43	77.4	23.66		0.90	6084.93	0.12	842.53		645.00	496220.00	15	14284.00
11/19/10 2:41	283,200	17,000	1,308	1639	234	3	44	79.2	21.51		2.90	6087.83	0.40	842.93		660.00	496880.00	15	14299.00
11/19/10 2:56	19,200	25,700	1,977	1659	202	3	44	79.2	21.51		4.38	6092.21	0.61	843.54		660.00	497540.00	15	14314.00
11/19/10 3:11	390,400	24,000	1,846	1672	208	3	44	79.2	19.36		4.09	6096.31	0.57	844.10		660.00	498200.00	15	14329.00
11/19/10 3:26	392,000	24,100	1,854	1663	214	4	42	75.6	19.36		3.92	6100.23	0.54	844.65		630.00	498830.00	15	14344.00
11/19/10 3:41	377,600	21,600	1,662	1674	236	3	47	84.6	21.51		3.94	6104.17	0.55	845.19		705.00	499535.00	15	14359.00
11/19/10 3:56	8,000	28,200	2,169	1643	236	3	38	68.4	23.66		4.16	6108.32	0.58	845.77		570.00	500105.00	15	14374.00
11/19/10 4:11	364,800	23,000	1,769	1658	218	4	42	75.6	21.51		3.75	6112.07	0.52	846.29		630.00	500735.00	15	14389.00
11/19/10 4:26	3,200	25,400	1,954	1650	220	4	44	79.2	19.36		4.33	6116.40	0.60	846.89		660.00	501395.00	15	14404.00
11/19/10 4:41	224,000	36,300	2,792	1678	212	3	47	84.6	19.36		6.62	6123.02	0.92	847.80		705.00	502100.00	15	14419.00
11/19/10 4:56	44,800	26,600	2,046	1680	204	3	45	81	19.36		4.64	6127.66	0.64	848.45		675.00	502775.00	15	14434.00
11/19/10 5:11	355,200	20,400	1,569	1647	232	4	46	82.8	19.36		3.64	6131.30	0.50	848.95		690.00	503465.00	15	14449.00
11/19/10 5:26	408,000	24,500	1,885	1669	234	3	44	79.2	19.36		4.18	6135.48	0.58	849.53		660.00	504125.00	15	14464.00
11/19/10 5:41	27,200	25,100	1,931	1648	236	3	45	81	21.51		4.38	6139.86	0.61	850.13		675.00	504800.00	15	14479.00
11/19/10 5:56	364,800	22,900	1,762	1630	236	4	44	79.2	19.36		3.91	6143.77	0.54	850.68		660.00	505460.00	15	14494.00
11/19/10 6:11	171,200	34,100	2,623	1653	238	5	44	79.2	21.51		5.82	6149.58	0.81	851.48		660.00	506120.00	15	14509.00
11/19/10 6:26	126,400	32,100	2,469	1653	238	6	44	79.2	23.66		5.48	6155.06	0.76	852.24		660.00	506780.00	15	14524.00
11/19/10 6:41	150,400	32,100	2,469	1640	234	4	46	82.8	21.51		5.73	6160.79	0.79	853.03		690.00	507470.00	15	14539.00
11/19/10 6:56	115,200	31,500	2,423	1676	238	5	45	81	19.36		5.50	6166.28	0.76	853.79		675.00	508145.00	15	14554.00
11/19/10 7:11	59,200	28,200	2,169	1670	234	4	45	81	21.51		4.92	6171.20	0.68	854.47		675.00	508820.00	15	14569.00
11/19/10 7:26	17,600	26,300	2,023	1644	238	5	43	77.4	19.36		4.39	6175.59	0.61	855.08		645.00	509465.00	15	14584.00
11/19/10 7:41	128,000	8,200	631	1661	236	5	41	73.8	21.51		1.30	6176.89	0.18	855.26		615.00	510080.00	15	14599.00
11/19/10 7:56	20,800	26,500	2,038	1687	238	5	44	79.2	19.36		4.52	6181.41	0.63	855.89		660.00	510740.00	15	14614.00
11/19/10 8:11	254,400	39,000	3,000	1639	238	5	45	81	19.36		6.80	6188.22	0.94	856.83		675.00	511415.00	15	14629.00
11/19/10 8:25	73,600	28,400	2,185	1674	228	4	45	81	23.66		4.63	6192.84	0.64	857.47		630.00	512045.00	14	14643.00
11/19/10 8:40	108,800	31,100	2,392	1634	238	4	44	79.2	21.51		5.31	6198.15	0.73	858.21		660.00	512705.00	15	14658.00
11/19/10 8:55	68,800	28,700	2,208	1659	234	5	44	79.2	21.51		4.90	6203.04	0.68	858.88		660.00	513365.00	15	14673.00
11/19/10 9:10	241,600	15,600	1,200	1660	232	4	41	73.8	21.51		2.48	6205.52	0						

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/19/10 10:25	216,000	36,700	2,823	1701	158	3	46	82.8	19.36		6.55	6226.18	0.91	862.09		690.00	517280.00	15	14763.00
11/19/10 10:40	323,200	20,800	1,600	1657	156	3	42	75.6	19.36		3.39	6229.56	0.47	862.55		630.00	517910.00	15	14778.00
11/19/10 10:55	283,200	17,400	1,338	1664	194	4	43	77.4	21.51		2.90	6232.46	0.40	862.96		645.00	518555.00	15	14793.00
11/19/10 11:10	92,800	29,500	2,269	1635	174	3	44	79.2	19.36		5.03	6237.50	0.70	863.65		660.00	519215.00	15	14808.00
11/19/10 11:25	48,000	27,500	2,115	1670	170	3	44	79.2	19.36		4.69	6242.19	0.65	864.30		660.00	519875.00	15	14823.00
11/19/10 11:40	118,400	31,000	2,385	1643	196	3	45	81	23.66		5.41	6247.60	0.75	865.05		675.00	520550.00	15	14838.00
11/19/10 11:55	380,800	22,900	1,762	1656	190	4	44	79.2	19.36		3.91	6251.50	0.54	865.59		660.00	521210.00	15	14853.00
11/19/10 12:10	92,800	29,500	2,269	1670	212	4	46	82.8	19.36		5.26	6256.77	0.73	866.32		690.00	521900.00	15	14868.00
11/19/10 12:25	216,000	36,700	2,823	1649	212	5	45	81	23.66		6.40	6263.17	0.89	867.21		675.00	522575.00	15	14883.00
11/19/10 12:40	200,000	35,800	2,754	1644	216	4	45	81	21.51		6.25	6269.42	0.86	868.07		675.00	523250.00	15	14898.00
11/19/10 12:55	408,000	25,000	1,923	1645	230	4	43	77.4	21.51		4.17	6273.58	0.58	868.65		645.00	523895.00	15	14913.00
11/19/10 13:10	340,800	43,100	3,315	1664	224	4	47	84.6	23.66		7.85	6281.44	1.09	869.74		705.00	524600.00	15	14928.00
11/19/10 13:25	19,200	25,100	1,931	1655	206	4	45	81	21.51		4.38	6285.82	0.61	870.34		675.00	525275.00	15	14943.00
11/19/10 13:40	182,400	34,000	2,615	1642	224	5	44	79.2	19.36		5.80	6291.62	0.80	871.15		660.00	525935.00	15	14958.00
11/19/10 13:55	312,000	19,200	1,477	1636	234	5	43	77.4	19.36		3.20	6294.82	0.44	871.59		645.00	526580.00	15	14973.00
11/19/10 14:10	168,000	33,900	2,608	1679	228	4	46	82.8	21.51		6.05	6300.87	0.84	872.43		690.00	527270.00	15	14988.00
11/19/10 14:25	137,600	30,700	2,362	1656	230	3	47	84.6	21.51		5.59	6306.46	0.77	873.20		705.00	527975.00	15	15003.00
11/19/10 14:40	345,600	21,200	1,631	1645	232	4	43	77.4	19.36		3.53	6310.00	0.49	873.69		645.00	528620.00	15	15018.00
11/19/10 14:55	25,600	26,100	2,008	1659	238	7	44	79.2	21.51		4.45	6314.45	0.62	874.31		660.00	529280.00	15	15033.00
11/19/10 15:10	190,400	35,200	2,708	1669	238	6	45	81	19.36		6.14	6320.59	0.85	875.16		675.00	529955.00	15	15048.00
11/19/10 15:24	228,800	35,100	2,700	1628	238	5	46	82.8	21.51		5.84	6326.43	0.81	875.97		644.00	530599.00	14	15062.00
11/19/10 15:39	260,800	39,400	3,031	1658	238	6	45	81	23.66		6.87	6333.31	0.95	876.92		675.00	531274.00	15	15077.00
11/19/10 15:54	340,800	44,100	3,392	1660	238	6	45	81	21.51		7.69	6341.00	1.07	877.99		675.00	531949.00	15	15092.00
11/19/10 16:09	294,400	40,400	3,108	1654	238	6	46	82.8	19.36		7.21	6348.21	1.00	878.98		690.00	532639.00	15	15107.00
11/19/10 16:24	281,600	39,600	3,046	1656	228	5	46	82.8	23.66		7.06	6355.27	0.98	879.96		690.00	533329.00	15	15122.00
11/19/10 16:39	217,600	36,000	2,769	1634	236	6	44	79.2	23.66		6.14	6361.42	0.85	880.81		660.00	533989.00	15	15137.00
11/19/10 16:54	94,400	29,600	2,277	1649	234	6	44	79.2	19.36		5.05	6366.47	0.70	881.51		660.00	534649.00	15	15152.00
11/19/10 17:09	307,200	40,300	3,100	1628	234	6	45	81	23.66		7.03	6373.50	0.97	882.48		675.00	535324.00	15	15167.00
11/19/10 17:24	124,800	30,700	2,362	1662	234	5	45	81	23.66		5.36	6378.85	0.74	883.23		675.00	535999.00	15	15182.00
11/19/10 17:39	179,200	11,300	869	1643	220	4	41	73.8	23.66		1.80	6380.65	0.25	883.47		615.00	536614.00	15	15197.00
11/19/10 17:54	187,200	35,000	2,692	1620	238	5	45	81	19.36		6.11	6386.76	0.85	884.32		675.00	537289.00	15	15212.00
11/19/10 18:09	91,200	30,800	2,369	1649	236	6	44	79.2	23.66		5.25	6392.01	0.73	885.05		660.00	537949.00	15	15227.00
11/19/10 18:24	196,800	35,600	2,738	1669	238	5	45	81	23.66		6.21	6398.22	0.86	885.91		675.00	538624.00	15	15242.00
11/19/10 18:39	188,800	36,000	2,769	1665	238	5	45	81	21.51		6.28	6404.51	0.87	886.78		675.00	539299.00	15	15257.00
11/19/10 18:54	94,400	29,600	2,277	1643	238	5	44	79.2	23.66		5.05	6409.56	0.70	887.48		660.00	539959.00	15	15272.00
11/19/10 19:09	121,600	32,600	2,508	1646	238	6	42	75.6	23.66		5.31	6414.86	0.74	888.21		630.00	540589.00	15	15287.00
11/19/10 19:24	284,800	40,800	3,138	1639	238	6	45	81	19.36		7.12	6421.98	0.99	889.20		675.00	541264.00	15	15302.00
11/19/10 19:39	200,000	35,000	2,692	1651	238	6	45	81	17.21		6.11	6428.09	0.85	890.04		675.00	541939.00	15	15317.00
11/19/10 19:54	88,000	29,200	2,246	1670	238	7	45	81	21.51		5.09	6433.19	0.71	890.75		675.00	542614.00	15	15332.00
11/19/10 20:09	113,600	30,700	2,362	1647	238	6	44	79.2	21.51		5.24	6438.42	0.73	891.47		660.00	543274.00	15	15347.00
11/19/10 20:24	131,200	32,400	2,492	1683	238	7	45	81	23.66		5.65	6444.08	0.78	892.26		675.00	543949.00	15	15362.00
11/19/10 20:39	246,400	39,400	3,031	1670	238	6	43	77.4	21.51		6.57	6450.65	0.91	893.17		645.00	544594.00	15	15377.00
11/19/10 20:54	224,000	14,800	1,138	1666	238	8	41	73.8	19.36		2.35	6453.00	0.33	893.49		615.00	545209.00	15	15392.00
11/19/10 21:09	363,200	22,800	1,754	1645	238	7	41	73.8	19.36		3.62	6456.62	0.50	893.99		615.00	545824.00	15	15407.00
11/19/10 21:24	208,000	37,100	2,854	1654	238	6	44	79.2	19.36		6.33	6462.95	0.88	894.87		660.00	546484.00	15	15422.00
11/19/10 21:39	158,400	34,100	2,623	1678	238	8	44	79.2	19.36		5.82	6468.77	0.81	895.68		660.00	547144.00	15	15437.00
11/19/10 21:54	361,600	45,200	3,477	1641	238	8	44	79.2	21.51		7.71	6476.48	1.07	896.74		660.00	547804.00	15	15452.00
11/19/10 22:09	107,200	32,500	2,500	1659	238	8	42	75.6	19.36		5.29	6481.77	0.73	897.48		630.00	548434.00	15	15467.00
11/19/10 22:23	288,000	41,900	3,223	1684	238	8	44	79.2	19.36		6.67	6488.45	0.92	898.40		616.00	549050.00	14	15481.00
11/19/10 22:38	396,800	24,900	1,915	1676	238	7	42	75.6	19.36		4.06	6492.50	0.56	898.96		630.00	549680.00	15	15496.00
11/19/10 22:53	184,000	36,400	2,800	1667	238	7	44	79.2	19.36		6.21	6498.71	0.86	899.82		660.00	550340.00	15	15511.00
11/19/10 23:08	131,200	34,000	2,615	1664	238	7	43	77.4	19.36		5.67	6504.38	0.78	900.61		645.00	550985.00	15	15526.00
11/19/10 23:23	227,200	39,100	3,008	1659	238	7	43	77.4	19.36		6.52	6510.90	0.90	901.51		645.00	551630.00	15	15541.00
11/19/10 23:38	214,400	38,300	2,946	1653	238	7	43	77.4	19.36		6.39	6517.29	0.88	902.39		645.00	552275.00	15	15556.00
11/19/10 23:53	168,000	36,300	2,792	1657	238	8	42	75.6	19.36		5.91	6523.20	0.82	903.21		630.00	552905.00	15	15571.00
11/20/10 0:08	222,400	39,700	3,054	1665	238	8	42	75.6	19.36		6.47	6529.66	0.90	904.11		630.00	553535.00	15	15586.00
11/20/10 0:23	8,000	26,900	2,069	1650	238	8	41	73.8	21.51		4.28	6533.94	0.59	904.70		615.00	554150.00	15	15601.00
11/20/10 0:38	108,800	32,600	2,508	1661	238	8	42	75.6	23.66		5.31	6539.25	0.74	905.43		630.00	554780.00	15	15616.00
11/20/10 0:53	176,000	35,900	2,762	1646	238	8	43	77.4	19.36		5.99	6545.23	0.83	906.26		645.00	555425.00	15	15631.00
11/20/10 1:08	97,600	31,900	2,454	1652	238	8	41	73.8	23.66		5.07	6550.31	0.70	906.97		615.00	556040.00	15	15646.00
11/20/10 1:23	200,000	38,400	2,954	1650	238	10	40	72</											

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/20/10 2:38	353,600	24,600	1,892	1667	238	11	38	68.4	21.51		3.62	6578.74	0.50	910.90		570.00	559685.00	15	15736.00
11/20/10 2:53	76,800	32,900	2,531	1666	238	11	39	70.2	21.51		4.98	6583.71	0.69	911.59		585.00	560270.00	15	15751.00
11/20/10 3:08	294,400	21,600	1,662	1666	238	11	38	68.4	25.81		3.18	6586.89	0.44	912.03		570.00	560840.00	15	15766.00
11/20/10 3:23	128,000	38,400	2,954	1628	238	13	37	66.6	17.21		5.51	6592.40	0.76	912.79		555.00	561395.00	15	15781.00
11/20/10 3:38	73,600	32,800	2,523	1666	238	12	38	68.4	19.36		4.83	6597.24	0.67	913.46		570.00	561965.00	15	15796.00
11/20/10 3:53	352,000	25,200	1,938	1680	238	12	37	66.6	17.21		3.62	6600.85	0.50	913.96		555.00	562520.00	15	15811.00
11/20/10 4:08	206,400	43,900	3,377	1664	238	13	37	66.6	19.36		6.30	6607.15	0.87	914.84		555.00	563075.00	15	15826.00
11/20/10 4:23	283,200	21,400	1,646	1692	238	12	36	64.8	17.21		2.99	6610.14	0.41	915.25		540.00	563615.00	15	15841.00
11/20/10 4:38	131,200	37,600	2,892	1653	238	12	38	68.4	19.36		5.54	6615.68	0.77	916.02		570.00	564185.00	15	15856.00
11/20/10 4:53	393,600	28,100	2,162	1638	238	12	36	64.8	19.36		3.92	6619.60	0.54	916.56		540.00	564725.00	15	15871.00
11/20/10 5:08	94,400	33,200	2,554	1653	238	11	39	70.2	17.21		5.02	6624.62	0.70	917.26		585.00	565310.00	15	15886.00
11/20/10 5:22	28,800	29,000	2,231	1666	238	11	38	68.4	19.36		3.99	6628.61	0.55	917.81		532.00	565842.00	14	15900.00
11/20/10 5:37	38,400	29,600	2,277	1647	238	10	39	70.2	19.36		4.48	6633.08	0.62	918.43		585.00	566427.00	15	15915.00
11/20/10 5:52	302,400	44,800	3,446	1678	238	10	42	75.6	19.36		7.30	6640.38	1.01	919.44		630.00	567057.00	15	15930.00
11/20/10 6:07	192,000	14,000	1,077	1650	238	9	35	63	21.51		1.90	6642.28	0.26	919.70		525.00	567582.00	15	15945.00
11/20/10 6:22	86,400	31,200	2,400	1646	238	8	42	75.6	19.36		5.08	6647.36	0.70	920.40		630.00	568212.00	15	15960.00
11/20/10 6:37	150,400	35,200	2,708	1635	238	8	42	75.6	17.21		5.73	6653.09	0.79	921.20		630.00	568842.00	15	15975.00
11/20/10 6:52	160,000	11,100	854	1642	238	8	38	68.4	17.21		1.64	6654.73	0.23	921.42		570.00	569412.00	15	15990.00
11/20/10 7:07	214,400	39,200	3,015	1678	238	8	42	75.6	21.51		6.38	6661.11	0.88	922.31		630.00	570042.00	15	16005.00
11/20/10 7:22	137,600	32,900	2,531	1642	238	8	43	77.4	21.51		5.49	6666.60	0.76	923.07		645.00	570687.00	15	16020.00
11/20/10 7:37	297,600	19,700	1,515	1654	238	8	40	72	21.51		3.06	6669.65	0.42	923.49		600.00	571287.00	15	16035.00
11/20/10 7:52	241,600	41,000	3,154	1671	238	9	42	75.6	17.21		6.68	6676.33	0.92	924.41		630.00	571917.00	15	16050.00
11/20/10 8:07	123,200	34,300	2,638	1683	238	9	41	73.8	17.21		5.45	6681.78	0.76	925.17		615.00	572532.00	15	16065.00
11/20/10 8:22	126,400	32,900	2,531	1639	238	8	43	77.4	19.36		5.49	6687.27	0.76	925.93		645.00	573177.00	15	16080.00
11/20/10 8:37	123,200	35,200	2,708	1675	238	8	40	72	21.51		5.46	6692.73	0.76	926.69		600.00	573777.00	15	16095.00
11/20/10 8:52	401,600	25,800	1,985	1656	238	9	40	72	21.51		4.00	6696.73	0.55	927.24		600.00	574377.00	15	16110.00
11/20/10 9:07	107,200	34,100	2,623	1657	238	9	40	72	19.36		5.29	6702.02	0.73	927.97		600.00	574977.00	15	16125.00
11/20/10 9:22	368,000	24,900	1,915	1646	238	9	38	68.4	17.21		3.67	6705.69	0.51	928.48		570.00	575547.00	15	16140.00
11/20/10 9:37	401,600	25,900	1,992	1649	238	8	42	75.6	19.36		4.22	6709.91	0.58	929.06		630.00	576177.00	15	16155.00
11/20/10 9:52	232,000	38,500	2,962	1653	238	8	44	79.2	19.36		6.57	6716.47	0.91	929.97		660.00	576837.00	15	16170.00
11/20/10 10:07	249,600	39,500	3,038	1655	238	8	44	79.2	19.36		6.74	6723.21	0.93	930.91		660.00	577497.00	15	16185.00
11/20/10 10:22	227,200	15,300	1,177	1662	238	8	40	72	19.36		2.37	6725.59	0.33	931.23		600.00	578097.00	15	16200.00
11/20/10 10:37	144,000	33,200	2,554	1663	238	8	43	77.4	19.36		5.54	6731.12	0.77	932.00		645.00	578742.00	15	16215.00
11/20/10 10:52	104,000	30,800	2,369	1662	238	8	44	79.2	21.51		5.25	6736.38	0.73	932.73		660.00	579402.00	15	16230.00
11/20/10 11:07	3,200	26,000	2,000	1661	238	8	42	75.6	21.51		4.23	6740.61	0.59	933.32		630.00	580032.00	15	16245.00
11/20/10 11:22	212,800	35,800	2,754	1649	238	8	45	81	19.36		6.25	6746.86	0.86	934.18		675.00	580707.00	15	16260.00
11/20/10 11:37	128,000	33,000	2,538	1649	238	9	43	77.4	19.36		5.50	6752.36	0.76	934.94		645.00	581352.00	15	16275.00
11/20/10 11:52	396,800	23,200	1,785	1662	236	8	45	81	19.36		4.05	6756.41	0.56	935.50		675.00	582027.00	15	16290.00
11/20/10 12:07	177,600	35,200	2,708	1641	238	9	44	79.2	19.36		6.01	6762.41	0.83	936.33		660.00	582687.00	15	16305.00
11/20/10 12:21	320,000	20,200	1,554	1641	238	10	42	75.6	19.36		3.07	6765.48	0.43	936.76		588.00	583275.00	14	16319.00
11/20/10 12:36	16,000	26,100	2,008	1668	238	11	42	75.6	17.21		4.25	6769.73	0.59	937.35		630.00	583905.00	15	16334.00
11/20/10 12:51	400,000	25,800	1,985	1667	238	10	40	72	19.36		4.00	6773.73	0.55	937.90		600.00	584505.00	15	16349.00
11/20/10 13:06	321,600	44,900	3,454	1645	238	10	43	77.4	17.21		7.49	6781.22	1.04	938.94		645.00	585150.00	15	16364.00
11/20/10 13:21	9,600	27,000	2,077	1656	238	9	43	77.4	19.36		4.50	6785.72	0.62	939.56		645.00	585795.00	15	16379.00
11/20/10 13:36	92,800	30,800	2,369	1678	238	9	43	77.4	19.36		5.14	6790.86	0.71	940.27		645.00	586440.00	15	16394.00
11/20/10 13:51	240,000	40,900	3,146	1645	238	9	42	75.6	17.21		6.66	6797.52	0.92	941.19		630.00	587070.00	15	16409.00
11/20/10 14:06	352,000	22,700	1,746	1674	236	8	41	73.8	19.36		3.61	6801.13	0.50	941.69		615.00	587685.00	15	16424.00
11/20/10 14:21	257,600	39,100	3,008	1664	238	8	45	81	21.51		6.82	6807.95	0.94	942.64		675.00	588360.00	15	16439.00
11/20/10 14:36	257,600	40,100	3,085	1638	238	8	44	79.2	19.36		6.84	6814.79	0.95	943.59		660.00	589020.00	15	16454.00
11/20/10 14:51	118,400	31,700	2,438	1640	238	8	43	77.4	19.36		5.29	6820.08	0.73	944.32		645.00	589665.00	15	16469.00
11/20/10 15:06	110,400	32,000	2,462	1661	236	8	43	77.4	21.51		5.34	6825.41	0.74	945.06		645.00	590310.00	15	16484.00
11/20/10 15:21	40,000	27,600	2,123	1641	238	7	42	75.6	21.51		4.49	6829.91	0.62	945.68		630.00	590940.00	15	16499.00
11/20/10 15:36	256,000	38,200	2,938	1647	238	6	46	82.8	21.51		6.81	6836.72	0.94	946.62		690.00	591630.00	15	16514.00
11/20/10 15:51	200,000	35,000	2,692	1658	238	7	45	81	23.66		6.11	6842.83	0.85	947.47		675.00	592305.00	15	16529.00
11/20/10 16:06	315,200	40,800	3,138	1653	238	6	46	82.8	21.51		7.28	6850.10	1.01	948.48		690.00	592995.00	15	16544.00
11/20/10 16:21	128,000	30,900	2,377	1669	238	7	45	81	19.36		5.39	6855.50	0.75	949.22		675.00	593670.00	15	16559.00
11/20/10 16:36	163,200	32,200	2,477	1654	238	6	46	82.8	21.51		5.74	6861.24	0.80	950.02		690.00	594360.00	15	16574.00
11/20/10 16:51	52,800	27,700	2,131	1646	238	7	44	79.2	21.51		4.73	6865.97	0.65	950.67		660.00	595020.00	15	16589.00
11/20/10 17:06	152,000	32,300	2,485	1622	236	7	45	81	21.51		5.64	6871.60	0.78	951.45		675.00	595695.00	15	16604.00
11/20/10 17:21	134,400	31,200	2,400	1655	238	6	46	82.8	19.36		5.56	6877.17	0.77	952.22		690.00	596385.00	15	16619.00
11/20/10 17:36	299,200	18,000	1,385	1652	238	6	44	79.2											

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/20/10 18:51	224,000	34,800	2,677	1644	238	5	47	84.6	21.51		6.34	6903.98	0.88	955.94		705.00	600315.00	15	16709.00
11/20/10 19:05	8,000	24,500	1,885	1644	238	5	45	81	21.51		3.99	6907.97	0.55	956.49		630.00	600945.00	14	16723.00
11/20/10 19:20	92,800	29,500	2,269	1648	238	6	45	81	19.36		5.15	6913.12	0.71	957.20		675.00	601620.00	15	16738.00
11/20/10 19:35	232,000	36,900	2,838	1649	238	6	46	82.8	21.51		6.58	6919.70	0.91	958.11		690.00	602310.00	15	16753.00
11/20/10 19:50	137,600	33,600	2,585	1644	236	5	43	77.4	21.51		5.60	6925.30	0.78	958.89		645.00	602955.00	15	16768.00
11/20/10 20:05	228,800	35,800	2,754	1671	238	5	47	84.6	19.36		6.52	6931.82	0.90	959.79		705.00	603660.00	15	16783.00
11/20/10 20:20	68,800	28,100	2,162	1661	238	5	46	82.8	19.36		5.01	6936.84	0.69	960.48		690.00	604350.00	15	16798.00
11/20/10 20:35	115,200	30,100	2,315	1633	238	5	45	81	21.51		5.25	6942.09	0.73	961.21		675.00	605025.00	15	16813.00
11/20/10 20:50	195,200	34,700	2,669	1645	238	5	46	82.8	21.51		6.19	6948.28	0.86	962.07		690.00	605715.00	15	16828.00
11/20/10 21:05	184,000	34,900	2,685	1674	238	6	45	81	21.51		6.09	6954.37	0.84	962.91		675.00	606390.00	15	16843.00
11/20/10 21:20	248,000	37,000	2,846	1664	238	6	45	81	19.36		6.46	6960.82	0.89	963.81		675.00	607065.00	15	16858.00
11/20/10 21:35	36,800	26,800	2,062	1665	238	6	44	79.2	19.36		4.57	6965.39	0.63	964.44		660.00	607725.00	15	16873.00
11/20/10 21:50	94,400	29,600	2,277	1664	238	6	45	81	19.36		5.16	6970.56	0.72	965.15		675.00	608400.00	15	16888.00
11/20/10 22:05	384,000	23,000	1,769	1635	238	7	43	77.4	19.36		3.83	6974.39	0.53	965.69		645.00	609045.00	15	16903.00
11/20/10 22:20	385,600	24,200	1,862	1667	238	7	43	77.4	19.36		4.03	6978.43	0.56	966.24		645.00	609690.00	15	16918.00
11/20/10 22:35	8,000	25,100	1,931	1664	238	7	43	77.4	21.51		4.18	6982.61	0.58	966.82		645.00	610335.00	15	16933.00
11/20/10 22:50	35,200	26,700	2,054	1673	238	7	44	79.2	17.21		4.56	6987.17	0.63	967.45		660.00	610995.00	15	16948.00
11/20/10 23:05	316,800	41,700	3,208	1629	238	6	44	79.2	21.51		7.11	6994.28	0.99	968.44		660.00	611655.00	15	16963.00
11/20/10 23:20	363,200	22,300	1,715	1645	238	5	43	77.4	21.51		3.72	6998.00	0.51	968.95		645.00	612300.00	15	16978.00
11/20/10 23:35	403,200	24,700	1,900	1671	238	5	44	79.2	19.36		4.21	7002.22	0.58	969.54		660.00	612960.00	15	16993.00
11/20/10 23:50	113,600	30,700	2,362	1646	238	5	45	81	19.36		5.36	7007.57	0.74	970.28		675.00	613635.00	15	17008.00
11/21/10 0:05	216,000	36,700	2,823	1642	238	5	45	81	21.51		6.40	7013.98	0.89	971.17		675.00	614310.00	15	17023.00
11/21/10 0:20	315,200	18,100	1,392	1654	222	3	46	82.8	19.36		3.23	7017.20	0.45	971.61		690.00	615000.00	15	17038.00
11/21/10 0:35	123,200	30,600	2,354	1648	238	4	45	81	23.66		5.34	7022.54	0.74	972.35		675.00	615675.00	15	17053.00
11/21/10 0:50	216,000	36,000	2,769	1628	236	4	45	81	21.51		6.28	7028.83	0.87	973.22		675.00	616350.00	15	17068.00
11/21/10 1:05	54,400	27,800	2,138	1645	238	5	44	79.2	19.36		4.74	7033.57	0.66	973.88		660.00	617010.00	15	17083.00
11/21/10 1:20	169,600	34,000	2,615	1685	238	5	46	82.8	21.51		6.06	7039.63	0.84	974.72		690.00	617700.00	15	17098.00
11/21/10 1:35	200,000	34,200	2,631	1643	238	5	46	82.8	19.36		6.10	7045.73	0.84	975.56		690.00	618390.00	15	17113.00
11/21/10 1:50	217,600	36,000	2,769	1648	238	5	45	81	19.36		6.28	7052.01	0.87	976.43		675.00	619065.00	15	17128.00
11/21/10 2:04	216,000	35,100	2,700	1663	238	4	47	84.6	21.51		5.97	7057.98	0.83	977.26		658.00	619723.00	14	17142.00
11/21/10 2:19	299,200	40,700	3,131	1649	238	5	46	82.8	23.66		7.26	7065.24	1.01	978.26		690.00	620413.00	15	17157.00
11/21/10 2:34	120,000	31,000	2,385	1635	238	5	45	81	19.36		5.41	7070.65	0.75	979.01		675.00	621088.00	15	17172.00
11/21/10 2:49	352,000	21,600	1,662	1624	238	5	42	75.6	21.51		3.52	7074.17	0.49	979.50		630.00	621718.00	15	17187.00
11/21/10 3:04	172,800	34,900	2,685	1671	238	5	43	77.4	21.51		5.82	7079.99	0.81	980.31		645.00	622363.00	15	17202.00
11/21/10 3:19	118,400	31,000	2,385	1674	236	5	44	79.2	23.66		5.29	7085.28	0.73	981.04		660.00	623023.00	15	17217.00
11/21/10 3:34	142,400	32,400	2,492	1666	238	6	45	81	21.51		5.65	7090.93	0.78	981.82		675.00	623698.00	15	17232.00
11/21/10 3:49	11,200	25,900	1,992	1656	238	6	44	79.2	19.36		4.42	7095.35	0.61	982.43		660.00	624358.00	15	17247.00
11/21/10 4:04	219,200	14,200	1,092	1669	238	6	41	73.8	23.66		2.26	7097.61	0.31	982.75		615.00	624973.00	15	17262.00
11/21/10 4:19	108,800	31,100	2,392	1645	238	6	44	79.2	19.36		5.31	7102.91	0.73	983.48		660.00	625633.00	15	17277.00
11/21/10 4:34	83,200	31,000	2,385	1663	238	6	43	77.4	19.36		5.17	7108.08	0.72	984.20		645.00	626278.00	15	17292.00
11/21/10 4:49	156,800	34,000	2,615	1678	238	6	45	81	19.36		5.93	7114.02	0.82	985.02		675.00	626953.00	15	17307.00
11/21/10 5:04	110,400	31,900	2,454	1662	238	6	42	75.6	21.51		5.20	7119.21	0.72	985.74		630.00	627583.00	15	17322.00
11/21/10 5:19	51,200	28,300	2,177	1629	238	5	43	77.4	19.36		4.72	7123.93	0.65	986.39		645.00	628228.00	15	17337.00
11/21/10 5:34	124,800	31,400	2,415	1655	238	5	45	81	21.51		5.48	7129.41	0.76	987.15		675.00	628903.00	15	17352.00
11/21/10 5:49	145,600	33,300	2,562	1641	238	6	43	77.4	23.66		5.55	7134.96	0.77	987.92		645.00	629548.00	15	17367.00
11/21/10 6:04	136,000	32,800	2,523	1638	238	6	43	77.4	21.51		5.47	7140.43	0.76	988.67		645.00	630193.00	15	17382.00
11/21/10 6:19	265,600	16,700	1,285	1658	238	6	41	73.8	21.51		2.65	7143.08	0.37	989.04		615.00	630808.00	15	17397.00
11/21/10 6:34	356,800	22,500	1,731	1648	238	5	43	77.4	21.51		3.75	7146.83	0.52	989.56		645.00	631453.00	15	17412.00
11/21/10 6:49	124,800	32,800	2,523	1652	238	6	44	79.2	19.36		5.60	7152.43	0.77	990.34		660.00	632113.00	15	17427.00
11/21/10 7:04	148,800	32,000	2,462	1662	238	4	46	82.8	23.66		5.71	7158.14	0.79	991.13		690.00	632803.00	15	17442.00
11/21/10 7:19	148,800	32,700	2,515	1685	238	4	46	82.8	19.36		5.83	7163.97	0.81	991.93		690.00	633493.00	15	17457.00
11/21/10 7:34	121,600	31,900	2,454	1678	238	4	46	82.8	21.51		5.69	7169.66	0.79	992.72		690.00	634183.00	15	17472.00
11/21/10 7:49	132,800	31,800	2,446	1648	238	4	45	81	19.36		5.55	7175.21	0.77	993.49		675.00	634858.00	15	17487.00
11/21/10 8:04	361,600	21,700	1,669	1659	238	4	44	79.2	17.21		3.70	7178.91	0.51	994.00		660.00	635518.00	15	17502.00
11/21/10 8:19	137,600	32,100	2,469	1679	232	4	46	82.8	21.51		5.73	7184.64	0.79	994.80		690.00	636208.00	15	17517.00
11/21/10 8:34	342,400	21,000	1,615	1673	238	4	44	79.2	21.51		3.58	7188.22	0.50	995.29		660.00	636868.00	15	17532.00
11/21/10 8:49	52,800	28,400	2,185	1674	238	5	44	79.2	19.36		4.85	7193.07	0.67	995.96		660.00	637528.00	15	17547.00
11/21/10 9:03	246,400	36,900	2,838	1638	238	3	47	84.6	21.51		6.28	7199.34	0.87	996.83		658.00	638186.00	14	17561.00
11/21/10 9:18	248,000	15,200	1,169	1661	236	4	43	77.4	21.51		2.53	7201.88	0.35	997.18		645.00	638831.00	15	17576.00
11/21/10 9:33	137,600	31,400	2,415	1639	238	3	46	82.8	19.36		5.60	7207.48	0.78	997.96		690.00	639521.00	15	17591.00
11/21/10 9:48	3,200	24,800	1,908	1678	238	3	45	81	19.36		4.33	7211.80							

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/21/10 11:03	115,200	31,500	2,423	1647	158	3	44	79.2	21.51		5.37	7233.79	0.74	1001.60		660.00	643466.00	15	17681.00
11/21/10 11:18	57,600	27,400	2,108	1640	192	3	45	81	21.51		4.78	7238.57	0.66	1002.26		675.00	644141.00	15	17696.00
11/21/10 11:33	345,600	19,800	1,523	1645	220	4	46	82.8	21.51		3.53	7242.10	0.49	1002.75		690.00	644831.00	15	17711.00
11/21/10 11:48	62,400	28,300	2,177	1661	238	5	44	79.2	21.51		4.83	7246.93	0.67	1003.42		660.00	645491.00	15	17726.00
11/21/10 12:03	241,600	37,400	2,877	1642	238	5	46	82.8	23.66		6.67	7253.60	0.92	1004.34		690.00	646181.00	15	17741.00
11/21/10 12:18	152,000	33,700	2,592	1676	238	6	45	81	19.36		5.88	7259.48	0.81	1005.16		675.00	646856.00	15	17756.00
11/21/10 12:33	352,000	22,100	1,700	1674	238	6	43	77.4	17.21		3.68	7263.16	0.51	1005.67		645.00	647501.00	15	17771.00
11/21/10 12:48	51,200	33,800	2,600	1656	238	8	34	61.2	21.51		4.46	7267.62	0.62	1006.29		510.00	648011.00	15	17786.00
11/21/10 13:03	129,600	32,300	2,485	1658	238	7	43	77.4	19.36		5.39	7273.00	0.75	1007.03		645.00	648656.00	15	17801.00
11/21/10 13:18	68,800	28,100	2,162	1658	238	7	45	81	19.36		4.90	7277.91	0.68	1007.71		675.00	649331.00	15	17816.00
11/21/10 13:33	28,800	27,600	2,123	1663	238	8	43	77.4	23.66		4.60	7282.51	0.64	1008.35		645.00	649976.00	15	17831.00
11/21/10 13:48	228,800	37,500	2,885	1655	238	8	45	81	21.51		6.54	7289.05	0.91	1009.25		675.00	650651.00	15	17846.00
11/21/10 14:03	144,000	34,000	2,615	1655	238	8	44	79.2	19.36		5.80	7294.85	0.80	1010.06		660.00	651311.00	15	17861.00
11/21/10 14:18	51,200	28,300	2,177	1664	238	9	44	79.2	15.06		4.83	7299.68	0.67	1010.73		660.00	651971.00	15	17876.00
11/21/10 14:33	128,000	32,300	2,485	1649	238	8	44	79.2	19.36		5.51	7305.19	0.76	1011.49		660.00	652631.00	15	17891.00
11/21/10 14:48	128,000	31,600	2,431	1625	238	8	43	77.4	17.21		5.27	7310.46	0.73	1012.22		645.00	653276.00	15	17906.00
11/21/10 15:03	204,800	37,700	2,900	1624	238	9	43	77.4	19.36		6.29	7316.75	0.87	1013.09		645.00	653921.00	15	17921.00
11/21/10 15:18	96,000	31,800	2,446	1653	238	9	42	75.6	19.36		5.18	7321.93	0.72	1013.81		630.00	654551.00	15	17936.00
11/21/10 15:33	208,000	38,000	2,923	1679	238	8	44	79.2	21.51		6.48	7328.41	0.90	1014.70		660.00	655211.00	15	17951.00
11/21/10 15:48	209,600	37,100	2,854	1663	238	9	45	81	17.21		6.47	7334.88	0.90	1015.60		675.00	655886.00	15	17966.00
11/21/10 16:02	80,000	30,100	2,315	1650	238	8	43	77.4	21.51		4.68	7339.57	0.65	1016.25		602.00	656488.00	14	17980.00
11/21/10 16:17	140,800	33,000	2,538	1672	236	8	44	79.2	17.21		5.63	7345.20	0.78	1017.03		660.00	657148.00	15	17995.00
11/21/10 16:32	92,800	30,200	2,323	1635	238	8	44	79.2	19.36		5.15	7350.35	0.71	1017.74		660.00	657808.00	15	18010.00
11/21/10 16:47	150,400	32,900	2,531	1657	238	7	45	81	21.51		5.74	7356.09	0.79	1018.54		675.00	658483.00	15	18025.00
11/21/10 17:02	171,200	34,100	2,623	1682	238	7	45	81	19.36		5.95	7362.04	0.82	1019.36		675.00	659158.00	15	18040.00
11/21/10 17:17	222,400	37,100	2,854	1650	238	7	44	79.2	21.51		6.33	7368.37	0.88	1020.24		660.00	659818.00	15	18055.00
11/21/10 17:32	41,600	27,700	2,131	1683	238	7	44	79.2	17.21		4.73	7373.09	0.65	1020.89		660.00	660478.00	15	18070.00
11/21/10 17:47	396,800	24,300	1,869	1658	238	7	43	77.4	21.51		4.05	7377.15	0.56	1021.45		645.00	661123.00	15	18085.00
11/21/10 18:02	315,200	18,500	1,423	1648	238	6	45	81	19.36		3.23	7380.37	0.45	1021.90		675.00	661798.00	15	18100.00
11/21/10 18:17	99,200	29,900	2,300	1660	238	6	45	81	19.36		5.22	7385.59	0.72	1022.62		675.00	662473.00	15	18115.00
11/21/10 18:32	33,600	26,600	2,046	1677	238	7	46	82.8	19.36		4.74	7390.34	0.66	1023.28		690.00	663163.00	15	18130.00
11/21/10 18:47	153,600	33,000	2,538	1651	238	6	45	81	23.66		5.76	7396.09	0.80	1024.07		675.00	663838.00	15	18145.00
11/21/10 19:02	107,200	29,700	2,285	1673	236	5	46	82.8	19.36		5.30	7401.39	0.73	1024.81		690.00	664528.00	15	18160.00
11/21/10 19:17	376,000	22,600	1,738	1645	238	5	43	77.4	23.66		3.77	7405.16	0.52	1025.33		645.00	665173.00	15	18175.00
11/21/10 19:32	19,200	25,700	1,977	1652	236	5	44	79.2	23.66		4.38	7409.54	0.61	1025.94		660.00	665833.00	15	18190.00
11/21/10 19:47	408,000	23,400	1,800	1667	238	6	46	82.8	19.36		4.17	7413.72	0.58	1026.51		690.00	666523.00	15	18205.00
11/21/10 20:02	126,400	30,800	2,369	1658	238	5	46	82.8	19.36		5.49	7419.21	0.76	1027.28		690.00	667213.00	15	18220.00
11/21/10 20:17	123,200	32,700	2,515	1660	238	6	44	79.2	19.36		5.58	7424.79	0.77	1028.05		660.00	667873.00	15	18235.00
11/21/10 20:32	348,800	20,100	1,546	1666	238	6	45	81	21.51		3.51	7428.30	0.49	1028.53		675.00	668548.00	15	18250.00
11/21/10 20:47	187,200	35,000	2,692	1656	238	5	46	82.8	19.36		6.24	7434.54	0.86	1029.40		690.00	669238.00	15	18265.00
11/21/10 21:02	65,600	27,900	2,146	1659	238	6	45	81	17.21		4.87	7439.41	0.67	1030.07		675.00	669913.00	15	18280.00
11/21/10 21:17	83,200	29,600	2,277	1662	238	6	45	81	19.36		5.16	7444.57	0.72	1030.79		675.00	670588.00	15	18295.00
11/21/10 21:32	275,200	16,500	1,269	1657	238	5	44	79.2	19.36		2.82	7447.39	0.39	1031.18		660.00	671248.00	15	18310.00
11/21/10 21:47	393,600	23,600	1,815	1674	238	7	45	81	19.36		4.12	7451.51	0.57	1031.75		675.00	671923.00	15	18325.00
11/21/10 22:02	64,000	28,400	2,185	1663	238	6	44	79.2	19.36		4.85	7456.35	0.67	1032.42		660.00	672583.00	15	18340.00
11/21/10 22:17	209,600	37,200	2,862	1634	238	8	44	79.2	19.36		6.35	7462.70	0.88	1033.30		660.00	673243.00	15	18355.00
11/21/10 22:32	150,400	33,600	2,585	1635	238	7	45	81	19.36		5.86	7468.56	0.81	1034.11		675.00	673918.00	15	18370.00
11/21/10 22:46	177,600	37,900	2,915	1650	238	9	41	73.8	23.66		5.62	7474.18	0.78	1034.89		574.00	674492.00	14	18384.00
11/21/10 23:01	33,600	26,000	2,000	1667	238	7	46	82.8	17.21		4.64	7478.82	0.64	1035.53		690.00	675182.00	15	18399.00
11/21/10 23:16	112,000	32,800	2,523	1665	238	7	43	77.4	21.51		5.47	7484.29	0.76	1036.29		645.00	675827.00	15	18414.00
11/21/10 23:31	236,800	38,800	2,985	1658	238	8	44	79.2	21.51		6.62	7490.91	0.92	1037.20		660.00	676487.00	15	18429.00
11/21/10 23:46	219,200	37,700	2,900	1633	238	8	44	79.2	19.36		6.43	7497.34	0.89	1038.09		660.00	677147.00	15	18444.00
11/22/10 0:01	129,600	33,900	2,608	1639	236	8	43	77.4	19.36		5.65	7502.99	0.78	1038.88		645.00	677792.00	15	18459.00
11/22/10 0:16	68,800	29,400	2,262	1687	238	8	43	77.4	19.36		4.90	7507.90	0.68	1039.55		645.00	678437.00	15	18474.00
11/22/10 0:31	89,600	31,400	2,415	1640	238	8	42	75.6	19.36		5.11	7513.01	0.71	1040.26		630.00	679067.00	15	18489.00
11/22/10 0:46	54,400	29,200	2,246	1669	238	8	43	77.4	21.51		4.87	7517.88	0.67	1040.94		645.00	679712.00	15	18504.00
11/22/10 1:01	80,000	29,400	2,262	1635	238	7	42	75.6	21.51		4.79	7522.67	0.66	1041.60		630.00	680342.00	15	18519.00
11/22/10 1:16	36,800	27,400	2,108	1675	238	6	44	79.2	19.36		4.67	7527.34	0.65	1042.25		660.00	681002.00	15	18534.00
11/22/10 1:31	364,800	22,900	1,762	1673	238	7	43	77.4	21.51		3.82	7531.16	0.53	1042.78		645.00	681647.00	15	18549.00
11/22/10 1:46	369,600	23,200	1,785	1683	238	8	43	77.4	19.36		3.87	7535.03	0.54	1043.31		645.00	682292.00	15	18564.00
11/22/10 2:01	139,200	34,5																	

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/22/10 3:16	252,800	39,700	3,054	1681	238	7	44	79.2	21.51		6.77	7568.09	0.94	1047.89		660.00	686132.00	15	18654.00
11/22/10 3:31	302,400	19,000	1,462	1666	238	7	44	79.2	19.36		3.24	7571.33	0.45	1048.34		660.00	686792.00	15	18669.00
11/22/10 3:46	115,200	32,200	2,477	1631	238	8	43	77.4	19.36		5.37	7576.70	0.74	1049.08		645.00	687437.00	15	18684.00
11/22/10 4:01	156,800	34,800	2,677	1660	238	8	43	77.4	19.36		5.80	7582.50	0.80	1049.88		645.00	688082.00	15	18699.00
11/22/10 4:16	246,400	39,300	3,023	1643	238	7	43	77.4	23.66		6.55	7589.05	0.91	1050.79		645.00	688727.00	15	18714.00
11/22/10 4:31	145,600	32,600	2,508	1652	238	8	43	77.4	19.36		5.44	7594.49	0.75	1051.54		645.00	689372.00	15	18729.00
11/22/10 4:46	259,200	39,300	3,023	1659	238	7	45	81	19.36		6.86	7601.34	0.95	1052.49		675.00	690047.00	15	18744.00
11/22/10 5:01	96,000	30,400	2,338	1668	238	7	44	79.2	17.21		5.19	7606.53	0.72	1053.21		660.00	690707.00	15	18759.00
11/22/10 5:16	120,000	33,300	2,562	1659	238	7	43	77.4	19.36		5.55	7612.08	0.77	1053.98		645.00	691352.00	15	18774.00
11/22/10 5:31	376,000	23,700	1,823	1660	238	8	42	75.6	19.36		3.86	7615.94	0.53	1054.52		630.00	691982.00	15	18789.00
11/22/10 5:45	67,200	28,600	2,200	1661	238	7	43	77.4	21.51		4.45	7620.39	0.62	1055.13		602.00	692584.00	14	18803.00
11/22/10 6:00	257,600	40,100	3,085	1647	238	8	44	79.2	19.36		6.84	7627.23	0.95	1056.08		660.00	693244.00	15	18818.00
11/22/10 6:15	150,400	35,200	2,708	1650	238	8	42	75.6	21.51		5.73	7632.97	0.79	1056.87		630.00	693874.00	15	18833.00
11/22/10 6:30	302,400	20,000	1,538	1655	238	8	41	73.8	19.36		3.18	7636.15	0.44	1057.31		615.00	694489.00	15	18848.00
11/22/10 6:45	384,000	24,100	1,854	1661	238	9	43	77.4	17.21		4.02	7640.16	0.56	1057.87		645.00	695134.00	15	18863.00
11/22/10 7:00	374,400	24,100	1,854	1623	238	8	41	73.8	17.21		3.83	7644.00	0.53	1058.40		615.00	695749.00	15	18878.00
11/22/10 7:15	206,400	37,800	2,908	1633	238	8	43	77.4	21.51		6.30	7650.30	0.87	1059.27		645.00	696394.00	15	18893.00
11/22/10 7:30	57,600	30,100	2,315	1642	238	9	40	72	19.36		4.67	7654.97	0.65	1059.92		600.00	696994.00	15	18908.00
11/22/10 7:45	99,200	31,200	2,400	1660	238	8	43	77.4	19.36		5.20	7660.17	0.72	1060.64		645.00	697639.00	15	18923.00
11/22/10 8:00	46,400	28,700	2,208	1640	238	8	42	75.6	19.36		4.67	7664.84	0.65	1061.29		630.00	698269.00	15	18938.00
11/22/10 8:15	225,600	39,000	3,000	1641	238	9	43	77.4	19.36		6.50	7671.35	0.90	1062.19		645.00	698914.00	15	18953.00
11/22/10 8:30	182,400	37,200	2,862	1621	238	10	40	72	21.51		5.77	7677.12	0.80	1062.99		600.00	699514.00	15	18968.00
11/22/10 8:45	188,800	36,800	2,831	1649	238	9	43	77.4	19.36		6.14	7683.25	0.85	1063.83		645.00	700159.00	15	18983.00
11/22/10 9:00	86,400	6,200	477	1654	238	9	38	68.4	21.51		0.91	7684.16	0.13	1063.96		570.00	700729.00	15	18998.00
11/22/10 9:15	57,600	30,000	2,308	1670	238	9	41	73.8	19.36		4.77	7688.93	0.66	1064.62		615.00	701344.00	15	19013.00
11/22/10 9:30	209,600	38,100	2,931	1644	238	8	43	77.4	19.36		6.35	7695.29	0.88	1065.50		645.00	701989.00	15	19028.00
11/22/10 9:45	270,400	17,800	1,369	1650	238	11	39	70.2	19.36		2.69	7697.98	0.37	1065.87		585.00	702574.00	15	19043.00
11/22/10 10:00	30,400	32,300	2,485	1656	238	11	36	64.8	21.51		4.51	7702.49	0.62	1066.50		540.00	703114.00	15	19058.00
11/22/10 10:15	259,200	18,500	1,423	1649	238	11	37	66.6	17.21		2.65	7705.14	0.37	1066.87		555.00	703669.00	15	19073.00
11/22/10 10:17	41,600	30,500	2,346	1658	238	11	39	70.2	19.36		0.61	7705.76	0.09	1066.95		78.00	703747.00	2	19075.00
11/22/10 10:38	0	0	0	1645	0	36	0	0	0		0.00	7705.76	0.00	1066.95		0.00	703747.00	0	19075.00
11/22/10 10:53	0	0	0	1670	216	28	4	7.2	0		0.00	7705.76	0.00	1066.95		60.00	703807.00	15	19090.00
11/22/10 11:08	20,800	2,600	200	1646	432	18	23	41.4	4.3		0.23	7705.99	0.03	1066.98		345.00	704152.00	15	19105.00
11/22/10 11:23	56,000	4,600	354	1627	136	15	32	57.6	15.06		0.57	7706.56	0.08	1067.06		480.00	704632.00	15	19120.00
11/22/10 11:38	30,400	2,300	177	1644	238	15	35	63	17.21		0.31	7706.87	0.04	1067.11		525.00	705157.00	15	19135.00
11/22/10 11:53	172,800	12,700	977	1663	238	14	36	64.8	17.21		1.77	7708.64	0.25	1067.35		540.00	705697.00	15	19150.00
11/22/10 12:08	72,000	5,300	408	1682	238	15	36	64.8	17.21		0.74	7709.38	0.10	1067.45		540.00	706237.00	15	19165.00
11/22/10 12:23	9,600	800	62	1656	238	15	34	61.2	17.21		0.11	7709.49	0.01	1067.47		510.00	706747.00	15	19180.00
11/22/10 12:38	137,600	9,800	754	1676	238	15	37	66.6	17.21		1.41	7710.89	0.19	1067.66		555.00	707302.00	15	19195.00
11/22/10 12:53	91,200	6,200	477	1660	238	15	38	68.4	19.36		0.91	7711.81	0.13	1067.79		570.00	707872.00	15	19210.00
11/22/10 13:08	288,000	19,500	1,500	1629	238	14	39	70.2	17.21		2.95	7714.76	0.41	1068.20		585.00	708457.00	15	19225.00
11/22/10 13:23	22,400	1,600	123	1640	238	15	37	66.6	17.21		0.23	7714.99	0.03	1068.23		555.00	709012.00	15	19240.00
11/22/10 13:38	347,200	23,600	1,815	1675	238	16	38	68.4	19.36		3.48	7718.46	0.48	1068.71		570.00	709582.00	15	19255.00
11/22/10 13:53	91,200	6,900	531	1675	238	15	37	66.6	17.21		0.99	7719.45	0.14	1068.85		555.00	710137.00	15	19270.00
11/22/10 14:08	49,600	3,600	277	1647	238	15	36	64.8	17.21		0.50	7719.96	0.07	1068.92		540.00	710677.00	15	19285.00
11/22/10 14:23	121,600	8,900	685	1636	238	16	36	64.8	17.21		1.24	7721.20	0.17	1069.09		540.00	711217.00	15	19300.00
11/22/10 14:38	97,600	7,000	538	1646	238	16	36	64.8	17.21		0.98	7722.18	0.14	1069.22		540.00	711757.00	15	19315.00
11/22/10 14:53	132,800	9,700	746	1642	238	16	36	64.8	15.06		1.35	7723.53	0.19	1069.41		540.00	712297.00	15	19330.00
11/22/10 15:08	48,000	3,700	285	1672	238	16	35	63	17.21		0.50	7724.03	0.07	1069.48		525.00	712822.00	15	19345.00
11/22/10 15:23	43,200	3,200	246	1635	238	14	37	66.6	17.21		0.46	7724.49	0.06	1069.54		555.00	713377.00	15	19360.00
11/22/10 15:38	137,600	10,100	777	1653	238	14	35	63	19.36		1.37	7725.86	0.19	1069.73		525.00	713902.00	15	19375.00
11/22/10 15:53	59,200	4,000	308	1649	238	14	39	70.2	17.21		0.60	7726.47	0.08	1069.82		585.00	714487.00	15	19390.00
11/22/10 16:08	228,800	15,200	1,169	1662	238	14	40	72	17.21		2.36	7728.82	0.33	1070.14		600.00	715087.00	15	19405.00
11/22/10 16:23	20,800	1,400	108	1653	238	12	39	70.2	19.36		0.21	7729.04	0.03	1070.17		585.00	715672.00	15	19420.00
11/22/10 16:38	145,600	9,600	738	1675	238	13	40	72	17.21		1.49	7730.52	0.21	1070.38		600.00	716272.00	15	19435.00
11/22/10 16:53	132,800	9,300	715	1649	238	14	38	68.4	17.21		1.37	7731.89	0.19	1070.57		570.00	716842.00	15	19450.00
11/22/10 17:07	43,200	2,900	223	1667	238	12	40	72	19.36		0.42	7732.31	0.06	1070.63		560.00	717402.00	14	19464.00
11/22/10 17:22	9,600	600	46	1649	238	12	39	70.2	17.21		0.09	7732.41	0.01	1070.64		585.00	717987.00	15	19479.00
11/22/10 17:37	246,400	15,900	1,223	1653	238	12	39	70.2	19.36		2.40	7734.81	0.33	1070.97		585.00	718572.00	15	19494.00
11/22/10 17:52	51,200	3,300	254	1659	238	11	41	73.8	17.21		0.52	7735.33	0.07	1071.05		615.00	719187.00	15	19509.00
11/22/10 18:07	216,000	14,300	1,100	1669	238	11	41	73.8	19.36		2.27	7737.61	0.31	1071.36					

**Table A-1**  
**ICE-Recorded (and Adjusted) Data**  
**Cell 1 IM**  
**Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/22/10 19:22	84,800	6,000	462	1625	238	13	37	66.6	17.21		0.86	7744.15	0.12	1072.27		555.00	722802.00	15	19599.00
11/22/10 19:37	97,600	6,600	508	1660	238	13	40	72	17.21		1.02	7745.17	0.14	1072.41		600.00	723402.00	15	19614.00
11/22/10 19:52	209,600	13,500	1,038	1669	238	12	42	75.6	17.21		2.20	7747.37	0.30	1072.71		630.00	724032.00	15	19629.00
11/22/10 20:07	204,800	13,200	1,015	1633	238	12	40	72	19.36		2.05	7749.42	0.28	1073.00		600.00	724632.00	15	19644.00
11/22/10 20:22	124,800	8,200	631	1648	238	13	40	72	19.36		1.27	7750.69	0.18	1073.17		600.00	725232.00	15	19659.00
11/22/10 20:37	200,000	13,200	1,015	1655	238	13	39	70.2	21.51		2.00	7752.68	0.28	1073.45		585.00	725817.00	15	19674.00
11/22/10 20:52	219,200	14,200	1,092	1648	238	13	40	72	17.21		2.20	7754.89	0.30	1073.75		600.00	726417.00	15	19689.00
11/22/10 21:07	19,200	1,400	108	1661	238	13	38	68.4	21.51		0.21	7755.09	0.03	1073.78		570.00	726987.00	15	19704.00
11/22/10 21:22	169,600	11,500	885	1687	238	12	41	73.8	19.36		1.83	7756.92	0.25	1074.04		615.00	727602.00	15	19719.00
11/22/10 21:37	323,200	20,400	1,569	1644	238	12	42	75.6	17.21		3.32	7760.24	0.46	1074.50		630.00	728232.00	15	19734.00
11/22/10 21:52	22,400	1,500	115	1686	238	12	39	70.2	19.36		0.23	7760.47	0.03	1074.53		585.00	728817.00	15	19749.00
11/22/10 22:07	158,400	10,400	800	1665	238	12	42	75.6	17.21		1.69	7762.16	0.23	1074.76		630.00	729447.00	15	19764.00
11/22/10 22:22	107,200	7,100	546	1629	238	13	40	72	17.21		1.10	7763.26	0.15	1074.91		600.00	730047.00	15	19779.00
11/22/10 22:37	244,800	16,100	1,238	1652	238	13	40	72	17.21		2.50	7765.76	0.35	1075.26		600.00	730647.00	15	19794.00
11/22/10 22:52	46,400	3,200	246	1659	238	14	40	72	17.21		0.50	7766.26	0.07	1075.33		600.00	731247.00	15	19809.00
11/22/10 23:07	97,600	6,800	523	1662	238	13	38	68.4	19.36		1.00	7767.26	0.14	1075.47		570.00	731817.00	15	19824.00
11/22/10 23:22	224,000	15,200	1,169	1665	238	14	40	72	17.21		2.36	7769.62	0.33	1075.79		600.00	732417.00	15	19839.00
11/22/10 23:37	180,800	12,000	923	1638	238	12	41	73.8	19.36		1.91	7771.53	0.26	1076.06		615.00	733032.00	15	19854.00
11/22/10 23:52	304,000	19,500	1,500	1660	238	12	41	73.8	19.36		3.10	7774.63	0.43	1076.49		615.00	733647.00	15	19869.00
11/23/10 0:06	182,400	12,100	931	1649	238	12	40	72	19.36		1.75	7776.38	0.24	1076.73		560.00	734207.00	14	19883.00
11/23/10 0:21	16,000	1,100	85	1645	238	13	37	66.6	17.21		0.16	7776.53	0.02	1076.75		555.00	734762.00	15	19898.00
11/23/10 0:36	188,800	12,100	931	1648	238	12	41	73.8	17.21		1.92	7778.46	0.27	1077.02		615.00	735377.00	15	19913.00
11/23/10 0:51	40,000	2,800	215	1649	238	13	38	68.4	15.06		0.41	7778.87	0.06	1077.07		570.00	735947.00	15	19928.00
11/23/10 1:06	148,800	9,900	762	1630	238	12	39	70.2	17.21		1.50	7780.37	0.21	1077.28		585.00	736532.00	15	19943.00
11/23/10 1:21	33,600	2,200	169	1660	238	13	39	70.2	19.36		0.33	7780.70	0.05	1077.33		585.00	737117.00	15	19958.00
11/23/10 1:36	288,000	19,100	1,469	1662	238	13	40	72	17.21		2.96	7783.66	0.41	1077.74		600.00	737717.00	15	19973.00
11/23/10 1:51	243,200	16,500	1,269	1635	238	13	40	72	17.21		2.56	7786.22	0.35	1078.09		600.00	738317.00	15	19988.00
11/23/10 2:06	54,400	3,600	277	1661	238	12	40	72	19.36		0.56	7786.78	0.08	1078.17		600.00	738917.00	15	20003.00
11/23/10 2:21	9,600	700	54	1657	238	12	38	68.4	19.36		0.10	7786.88	0.01	1078.18		570.00	739487.00	15	20018.00
11/23/10 2:36	222,400	14,400	1,108	1651	238	12	41	73.8	17.21		2.29	7789.17	0.32	1078.50		615.00	740102.00	15	20033.00
11/23/10 2:51	156,800	10,400	800	1646	238	12	39	70.2	19.36		1.57	7790.75	0.22	1078.72		585.00	740687.00	15	20048.00
11/23/10 3:06	40,000	2,600	200	1661	238	12	40	72	17.21		0.40	7791.15	0.06	1078.77		600.00	741287.00	15	20063.00
11/23/10 3:21	57,600	3,800	292	1668	238	12	42	75.6	17.21		0.62	7791.77	0.09	1078.86		630.00	741917.00	15	20078.00
11/23/10 3:36	51,200	3,700	285	1645	238	14	36	64.8	19.36		0.52	7792.28	0.07	1078.93		540.00	742457.00	15	20093.00
11/23/10 3:51	73,600	5,000	385	1684	236	11	43	77.4	19.36		0.83	7793.12	0.12	1079.05		645.00	743102.00	15	20108.00
11/23/10 4:06	257,600	16,600	1,277	1645	238	12	41	73.8	17.21		2.64	7795.76	0.37	1079.41		615.00	743717.00	15	20123.00
11/23/10 4:21	59,200	4,100	315	1655	238	13	38	68.4	17.21		0.60	7796.36	0.08	1079.50		570.00	744287.00	15	20138.00
11/23/10 4:36	292,800	19,800	1,523	1632	238	14	39	70.2	15.06		2.99	7799.36	0.41	1079.91		585.00	744872.00	15	20153.00
11/23/10 4:51	24,000	1,800	138	1657	238	13	37	66.6	19.36		0.26	7799.61	0.04	1079.95		555.00	745427.00	15	20168.00
11/23/10 5:06	164,800	11,200	862	1657	238	13	40	72	17.21		1.74	7801.35	0.24	1080.19		600.00	746027.00	15	20183.00
11/23/10 5:21	224,000	14,400	1,108	1685	238	12	41	73.8	17.21		2.29	7803.64	0.32	1080.50		615.00	746642.00	15	20198.00
11/23/10 5:36	96,000	6,400	492	1660	238	11	41	73.8	19.36		1.02	7804.66	0.14	1080.64		615.00	747257.00	15	20213.00
11/23/10 5:51	0	0	0	1637	238	12	38	68.4	19.36		0.00	7804.66	0.00	1080.64		570.00	747827.00	15	20228.00
11/23/10 6:06	222,400	14,700	1,131	1660	238	13	41	73.8	17.21		2.34	7806.99	0.32	1080.97		615.00	748442.00	15	20243.00
11/23/10 6:21	209,600	13,800	1,062	1649	238	13	39	70.2	17.21		2.09	7809.08	0.29	1081.26		585.00	749027.00	15	20258.00
11/23/10 6:36	9,600	600	46	1652	238	13	38	68.4	17.21		0.09	7809.17	0.01	1081.27		570.00	749597.00	15	20273.00
11/23/10 6:51	6,400	500	38	1634	238	14	35	63	19.36		0.07	7809.24	0.01	1081.28		525.00	750122.00	15	20288.00
11/23/10 7:05	0	100	8	1665	238	13	37	66.6	19.36		0.01	7809.25	0.00	1081.28		518.00	750640.00	14	20302.00
11/23/10 7:20	11,200	800	62	1660	238	13	39	70.2	17.21		0.12	7809.37	0.02	1081.30		585.00	751225.00	15	20317.00
11/23/10 7:35	43,200	2,800	215	1656	238	12	40	72	19.36		0.43	7809.81	0.06	1081.36		600.00	751825.00	15	20332.00
11/23/10 7:50	134,400	8,800	677	1671	238	12	40	72	17.21		1.36	7811.17	0.19	1081.55		600.00	752425.00	15	20347.00
11/23/10 8:05	217,600	14,000	1,077	1650	238	10	42	75.6	17.21		2.28	7813.45	0.32	1081.86		630.00	753055.00	15	20362.00
11/23/10 8:20	83,200	6,100	469	1681	238	14	36	64.8	17.21		0.85	7814.30	0.12	1081.98		540.00	753595.00	15	20377.00
11/23/10 8:35	91,200	6,200	477	1662	238	14	38	68.4	17.21		0.91	7815.22	0.13	1082.11		570.00	754165.00	15	20392.00
11/23/10 8:50	115,200	7,600	585	1659	238	12	41	73.8	17.21		1.21	7816.42	0.17	1082.27		615.00	754780.00	15	20407.00
11/23/10 9:05	100,800	7,800	600	1661	238	17	34	61.2	17.21		1.03	7817.45	0.14	1082.42		510.00	755290.00	15	20422.00
11/23/10 9:20	9,600	600	46	1650	238	10	41	73.8	19.36		0.10	7817.55	0.01	1082.43		615.00	755905.00	15	20437.00
11/23/10 9:35	4,800	400	31	1662	238	14	38	68.4	17.21		0.06	7817.61	0.01	1082.44		570.00	756475.00	15	20452.00
11/23/10 9:50	22,400	1,600	123	1673	238	15	38	68.4	17.21		0.24	7817.84	0.03	1082.47		570.00	757045.00	15	20467.00
11/23/10 10:05	12,800	900	69	1665	238	14	36	64.8	19.36		0.13	7817.97	0.02	1082.49		540.00	757585.00	15	20482.00
11/23/10 10:20	272,000	18,400	1,415	1658	238	14	40	72	17.21		2.85	7820.82	0.40	1082.88		600.00	758185.0		

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/23/10 11:35	148,800	10,600	815	1657	238	15	37	66.6	15.06		1.52	7825.10	0.21	1083.48		555.00	760960.00	15	20572.00
11/23/10 11:50	38,400	2,900	223	1641	238	16	37	66.6	17.21		0.42	7825.52	0.06	1083.53		555.00	761515.00	15	20587.00
11/23/10 12:05	43,200	3,200	246	1633	238	16	35	63	17.21		0.43	7825.95	0.06	1083.59		525.00	762040.00	15	20602.00
11/23/10 12:20	155,200	10,300	792	1657	238	14	40	72	17.21		1.60	7827.55	0.22	1083.81		600.00	762640.00	15	20617.00
11/23/10 12:35	310,400	20,000	1,538	1649	238	13	41	73.8	17.21		3.18	7830.73	0.44	1084.25		615.00	763255.00	15	20632.00
11/23/10 12:50	182,400	11,800	908	1617	238	12	40	72	19.36		1.83	7832.56	0.25	1084.51		600.00	763855.00	15	20647.00
11/23/10 13:05	27,200	1,800	138	1663	238	13	39	70.2	19.36		0.27	7832.83	0.04	1084.55		585.00	764440.00	15	20662.00
11/23/10 13:20	227,200	14,700	1,131	1667	238	12	42	75.6	17.21		2.39	7835.22	0.33	1084.88		630.00	765070.00	15	20677.00
11/23/10 13:35	257,600	17,000	1,308	1680	238	13	42	75.6	17.21		2.77	7837.99	0.38	1085.26		630.00	765700.00	15	20692.00
11/23/10 13:45	33,600	2,500	192	1672	238	15	36	64.8	17.21		0.23	7838.22	0.03	1085.29		360.00	766060.00	10	20702.00
11/25/10 20:34	312,000	21,100	1,623	1667	238	12	38	68.4	17.21		681.69	8519.91	94.39	1179.68		124982.00	891042.00	3289	23991.00
11/25/10 20:49	387,200	26,300	2,023	1662	238	13	39	70.2	19.36		3.98	8523.89	0.55	1180.23		585.00	891627.00	15	24006.00
11/25/10 21:04	268,800	18,700	1,438	1657	238	12	38	68.4	21.51		2.76	8526.65	0.38	1180.61		570.00	892197.00	15	24021.00
11/25/10 21:19	67,200	34,100	2,623	1654	238	13	38	68.4	21.51		5.02	8531.67	0.70	1181.31		570.00	892767.00	15	24036.00
11/25/10 21:34	36,800	30,200	2,323	1662	238	14	39	70.2	19.36		4.57	8536.24	0.63	1181.94		585.00	893352.00	15	24051.00
11/25/10 21:49	33,600	31,700	2,438	1665	238	15	37	66.6	15.06		4.55	8540.79	0.63	1182.57		555.00	893907.00	15	24066.00
11/25/10 22:04	52,800	32,200	2,477	1659	238	16	37	66.6	19.36		4.62	8545.41	0.64	1183.21		555.00	894462.00	15	24081.00
11/25/10 22:19	64,000	32,900	2,531	1649	238	15	38	68.4	15.06		4.85	8550.25	0.67	1183.88		570.00	895032.00	15	24096.00
11/25/10 22:34	115,200	38,500	2,962	1673	238	17	37	66.6	17.21		5.52	8555.78	0.76	1184.65		555.00	895587.00	15	24111.00
11/25/10 22:49	1,600	29,400	2,262	1663	238	15	37	66.6	27.97		4.22	8559.99	0.58	1185.23		555.00	896142.00	15	24126.00
11/25/10 23:04	347,200	24,200	1,862	1654	238	15	37	66.6	19.36		3.47	8563.47	0.48	1185.71		555.00	896697.00	15	24141.00
11/25/10 23:19	385,600	29,000	2,231	1638	238	17	35	63	19.36		3.94	8567.40	0.54	1186.26		525.00	897222.00	15	24156.00
11/25/10 23:34	20,800	33,400	2,569	1669	238	18	35	63	17.21		4.53	8571.94	0.63	1186.88		525.00	897747.00	15	24171.00
11/25/10 23:49	332,800	25,100	1,931	1644	238	18	34	61.2	19.36		3.31	8575.24	0.46	1187.34		510.00	898257.00	15	24186.00
11/26/10 0:03	400,000	29,400	2,262	1656	238	16	36	64.8	19.36		3.83	8579.07	0.53	1187.87		504.00	898761.00	14	24200.00
11/26/10 0:18	104,000	41,100	3,162	1658	238	20	34	61.2	15.06		5.42	8584.49	0.75	1188.62		510.00	899271.00	15	24215.00
11/26/10 0:33	408,000	30,800	2,369	1664	238	18	35	63	19.36		4.18	8588.67	0.58	1189.20		525.00	899796.00	15	24230.00
11/26/10 0:48	206,400	17,600	1,354	1656	238	18	32	57.6	17.21		2.18	8590.86	0.30	1189.50		480.00	900276.00	15	24245.00
11/26/10 1:03	291,200	21,300	1,638	1657	238	16	35	63	19.36		2.89	8593.75	0.40	1189.90		525.00	900801.00	15	24260.00
11/26/10 1:18	324,800	24,500	1,885	1644	238	16	34	61.2	19.36		3.23	8596.98	0.45	1190.35		510.00	901311.00	15	24275.00
11/26/10 1:33	289,600	22,500	1,731	1685	238	17	34	61.2	19.36		2.97	8599.94	0.41	1190.76		510.00	901821.00	15	24290.00
11/26/10 1:48	304,000	26,800	2,062	1669	238	19	31	55.8	19.36		3.22	8603.16	0.45	1191.21		465.00	902286.00	15	24305.00
11/26/10 2:03	144,000	12,300	946	1643	238	17	30	54	19.36		1.43	8604.60	0.20	1191.41		450.00	902736.00	15	24320.00
11/26/10 2:18	86,400	42,300	3,254	1655	238	20	31	55.8	15.06		5.08	8609.68	0.70	1192.11		465.00	903201.00	15	24335.00
11/26/10 2:33	321,600	25,700	1,977	1646	238	18	34	61.2	17.21		3.39	8613.07	0.47	1192.58		510.00	903711.00	15	24350.00
11/26/10 2:48	294,400	24,200	1,862	1657	238	19	32	57.6	17.21		3.00	8616.07	0.42	1192.99		480.00	904191.00	15	24365.00
11/26/10 3:03	206,400	17,600	1,354	1678	238	19	31	55.8	19.36		2.12	8618.19	0.29	1193.29		465.00	904656.00	15	24380.00
11/26/10 3:18	126,400	12,400	954	1673	238	21	27	48.6	15.06		1.30	8619.48	0.18	1193.47		405.00	905061.00	15	24395.00
11/26/10 3:33	121,600	41,300	3,177	1644	238	20	34	61.2	15.06		5.44	8624.93	0.75	1194.22		510.00	905571.00	15	24410.00
11/26/10 3:48	64,000	39,100	3,008	1678	238	20	33	59.4	17.21		5.00	8629.93	0.69	1194.91		495.00	906066.00	15	24425.00
11/26/10 4:03	374,400	30,000	2,308	1644	238	20	32	57.6	17.21		3.72	8633.65	0.52	1195.43		480.00	906546.00	15	24440.00
11/26/10 4:18	212,800	19,400	1,492	1665	238	23	29	52.2	15.06		2.18	8635.84	0.30	1195.73		435.00	906981.00	15	24455.00
11/26/10 4:33	331,200	31,200	2,400	1654	238	24	28	50.4	12.91		3.39	8639.22	0.47	1196.20		420.00	907401.00	15	24470.00
11/26/10 4:48	286,400	28,100	2,162	1668	238	26	26	46.8	17.21		2.83	8642.06	0.39	1196.59		390.00	907791.00	15	24485.00
11/26/10 5:03	185,600	16,300	1,254	1644	238	22	30	54	17.21		1.90	8643.95	0.26	1196.85		450.00	908241.00	15	24500.00
11/26/10 5:18	14,400	37,300	2,869	1685	238	22	30	54	15.06		4.34	8648.29	0.60	1197.46		450.00	908691.00	15	24515.00
11/26/10 5:33	308,800	26,300	2,023	1651	238	21	31	55.8	19.36		3.16	8651.45	0.44	1197.89		465.00	909156.00	15	24530.00
11/26/10 5:48	32,000	35,400	2,723	1665	238	19	33	59.4	19.36		4.53	8655.98	0.63	1198.52		495.00	909651.00	15	24545.00
11/26/10 6:03	387,200	31,000	2,385	1645	238	19	33	59.4	17.21		3.97	8659.95	0.55	1199.07		495.00	910146.00	15	24560.00
11/26/10 6:18	184,000	15,200	1,169	1659	238	19	32	57.6	17.21		1.89	8661.84	0.26	1199.33		480.00	910626.00	15	24575.00
11/26/10 6:33	403,200	30,400	2,338	1650	238	17	35	63	17.21		4.13	8665.96	0.57	1199.90		525.00	911151.00	15	24590.00
11/26/10 6:48	30,400	34,100	2,623	1652	238	18	34	61.2	17.21		4.50	8670.46	0.62	1200.52		510.00	911661.00	15	24605.00
11/26/10 7:02	169,600	13,200	1,015	1639	238	16	34	61.2	15.06		1.62	8672.08	0.22	1200.75		476.00	912137.00	14	24619.00
11/26/10 7:17	265,600	20,600	1,585	1640	238	18	34	61.2	15.06		2.72	8674.80	0.38	1201.13		510.00	912647.00	15	24634.00
11/26/10 7:32	273,600	20,100	1,546	1675	238	15	35	63	21.51		2.73	8677.52	0.38	1201.50		525.00	913172.00	15	24649.00
11/26/10 7:47	105,600	34,900	2,685	1642	238	14	39	70.2	17.21		5.28	8682.80	0.73	1202.23		585.00	913757.00	15	24664.00
11/26/10 8:02	19,200	31,500	2,423	1647	238	17	36	64.8	17.21		4.40	8687.20	0.61	1202.84		540.00	914297.00	15	24679.00
11/26/10 8:17	299,200	20,800	1,600	1674	238	14	38	68.4	17.21		3.06	8690.26	0.42	1203.27		570.00	914867.00	15	24694.00
11/26/10 8:32	345,600	24,700	1,900	1670	238	15	38	68.4	17.21		3.64	8693.90	0.50	1203.77		570.00	915437.00	15	24709.00
11/26/10 8:47	116,800	33,900	2,608	1645	238	12	41	73.8	19.36		5.39	8699.29	0.75	1204.52		615.00	916052.00	15	24724.00
11/26/																			

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/26/10 10:17	32,000	32,500	2,500	1656	238	17	36	64.8	17.21		4.54	8726.00	0.63	1208.22		540.00	919472.00	15	24814.00
11/26/10 10:32	360,000	24,300	1,869	1640	238	13	38	68.4	19.36		3.58	8729.58	0.50	1208.71		570.00	920042.00	15	24829.00
11/26/10 10:47	12,800	30,100	2,315	1657	238	12	38	68.4	21.51		4.44	8734.02	0.61	1209.33		570.00	920612.00	15	24844.00
11/26/10 10:57	364,800	24,000	1,846	1677	238	10	40	72	23.66		2.48	8736.50	0.34	1209.67		400.00	921012.00	10	24854.00
11/26/10 11:17	0	0	0	1663	0	35	0	0	0		0.00	8736.50	0.00	1209.67		0.00	921012.00	0	24854.00
11/26/10 11:32	0	100	8	1667	216	26	7	12.6	0		0.00	8736.50	0.00	1209.67		105.00	921117.00	15	24869.00
11/26/10 11:47	8,000	900	69	1673	432	13	27	48.6	6.45		0.09	8736.59	0.01	1209.68		405.00	921522.00	15	24884.00
11/26/10 12:02	156,800	13,400	1,031	1636	136	19	30	54	12.91		1.56	8738.15	0.22	1209.90		450.00	921972.00	15	24899.00
11/26/10 12:16	121,600	8,700	669	1671	238	12	39	70.2	17.21		1.23	8739.38	0.17	1210.07		546.00	922518.00	14	24913.00
11/26/10 12:31	206,400	14,700	1,131	1632	238	12	37	66.6	17.21		2.11	8741.49	0.29	1210.36		555.00	923073.00	15	24928.00
11/26/10 12:46	153,600	10,400	800	1665	238	11	39	70.2	19.36		1.57	8743.06	0.22	1210.58		585.00	923658.00	15	24943.00
11/26/10 13:01	257,600	19,500	1,500	1664	238	18	35	63	17.21		2.65	8745.71	0.37	1210.94		525.00	924183.00	15	24958.00
11/26/10 13:16	131,200	8,400	646	1657	238	10	40	72	19.36		1.30	8747.01	0.18	1211.12		600.00	924783.00	15	24973.00
11/26/10 13:31	80,000	5,300	408	1652	238	9	40	72	17.21		0.82	8747.83	0.11	1211.24		600.00	925383.00	15	24988.00
11/26/10 13:46	107,200	7,200	554	1620	238	10	39	70.2	19.36		1.09	8748.92	0.15	1211.39		585.00	925968.00	15	25003.00
11/26/10 14:01	156,800	10,800	831	1671	238	13	39	70.2	17.21		1.63	8750.56	0.23	1211.62		585.00	926553.00	15	25018.00
11/26/10 14:16	73,600	5,000	385	1646	238	10	39	70.2	19.36		0.76	8751.31	0.10	1211.72		585.00	927138.00	15	25033.00
11/26/10 14:31	51,200	3,400	262	1680	238	11	39	70.2	17.21		0.51	8751.83	0.07	1211.79		585.00	927723.00	15	25048.00
11/26/10 14:46	115,200	7,600	585	1682	238	9	40	72	19.36		1.18	8753.01	0.16	1211.95		600.00	928323.00	15	25063.00
11/26/10 15:01	158,400	9,700	746	1646	238	7	43	77.4	21.51		1.62	8754.62	0.22	1212.18		645.00	928968.00	15	25078.00
11/26/10 15:16	180,800	12,900	992	1674	238	15	38	68.4	17.21		1.90	8756.52	0.26	1212.44		570.00	929538.00	15	25093.00
11/26/10 15:31	19,200	1,300	100	1653	238	12	38	68.4	15.06		0.19	8756.72	0.03	1212.47		570.00	930108.00	15	25108.00
11/26/10 15:46	25,600	1,800	138	1666	238	10	39	70.2	19.36		0.27	8756.99	0.04	1212.51		585.00	930693.00	15	25123.00
11/26/10 16:01	136,000	9,200	708	1616	238	12	38	68.4	17.21		1.36	8758.34	0.19	1212.69		570.00	931263.00	15	25138.00
11/26/10 16:16	115,200	7,400	569	1658	238	9	41	73.8	19.36		1.18	8759.52	0.16	1212.86		615.00	931878.00	15	25153.00
11/26/10 16:31	70,400	4,400	338	1647	238	9	42	75.6	19.36		0.72	8760.24	0.10	1212.96		630.00	932508.00	15	25168.00
11/26/10 16:46	28,800	2,300	177	1668	238	14	37	66.6	17.21		0.33	8760.57	0.05	1213.00		555.00	933063.00	15	25183.00
11/26/10 17:01	19,200	1,500	115	1672	238	10	36	64.8	19.36		0.21	8760.78	0.03	1213.03		540.00	933603.00	15	25198.00
11/26/10 17:16	291,200	19,300	1,485	1648	238	11	40	72	19.36		2.99	8763.77	0.41	1213.44		600.00	934203.00	15	25213.00
11/26/10 17:31	27,200	2,300	177	1665	238	14	33	59.4	15.06		0.29	8764.06	0.04	1213.49		495.00	934698.00	15	25228.00
11/26/10 17:46	172,800	11,400	877	1657	238	10	40	72	17.21		1.77	8765.83	0.24	1213.73		600.00	935298.00	15	25243.00
11/26/10 18:01	88,000	5,800	446	1642	238	9	40	72	19.36		0.90	8766.73	0.12	1213.86		600.00	935898.00	15	25258.00
11/26/10 18:16	52,800	4,200	323	1672	238	14	34	61.2	17.21		0.55	8767.28	0.08	1213.93		510.00	936408.00	15	25273.00
11/26/10 18:31	148,800	9,600	738	1673	238	9	40	72	19.36		1.49	8768.77	0.21	1214.14		600.00	937008.00	15	25288.00
11/26/10 18:46	28,800	2,000	154	1658	238	13	37	66.6	15.06		0.29	8769.06	0.04	1214.18		555.00	937563.00	15	25303.00
11/26/10 19:01	219,200	14,400	1,108	1666	238	10	40	72	19.36		2.23	8771.29	0.31	1214.49		600.00	938163.00	15	25318.00
11/26/10 19:15	76,800	5,500	423	1663	238	11	38	68.4	19.36		0.76	8772.05	0.10	1214.59		532.00	938695.00	14	25332.00
11/26/10 19:30	30,400	2,200	169	1654	238	13	36	64.8	17.21		0.31	8772.36	0.04	1214.63		540.00	939235.00	15	25347.00
11/26/10 19:45	166,400	11,600	892	1670	238	13	37	66.6	19.36		1.66	8774.02	0.23	1214.86		555.00	939790.00	15	25362.00
11/26/10 20:00	14,400	1,100	85	1651	238	10	39	70.2	19.36		0.17	8774.19	0.02	1214.89		585.00	940375.00	15	25377.00
11/26/10 20:15	8,000	600	46	1668	238	14	36	64.8	17.21		0.08	8774.27	0.01	1214.90		540.00	940915.00	15	25392.00
11/26/10 20:30	163,200	11,300	869	1675	238	13	38	68.4	15.06		1.66	8775.94	0.23	1215.13		570.00	941485.00	15	25407.00
11/26/10 20:45	147,200	8,800	677	1640	238	6	44	79.2	19.36		1.50	8777.44	0.21	1215.34		660.00	942145.00	15	25422.00
11/26/10 21:00	105,600	6,800	523	1642	238	10	41	73.8	19.36		1.08	8778.52	0.15	1215.49		615.00	942760.00	15	25437.00
11/26/10 21:15	137,600	9,600	738	1651	238	10	38	68.4	19.36		1.41	8779.93	0.20	1215.68		570.00	943330.00	15	25452.00
11/26/10 21:30	161,600	12,600	969	1660	238	15	34	61.2	15.06		1.66	8781.59	0.23	1215.91		510.00	943840.00	15	25467.00
11/26/10 21:45	240,000	16,300	1,254	1664	238	12	39	70.2	17.21		2.46	8784.06	0.34	1216.25		585.00	944425.00	15	25482.00
11/26/10 22:00	120,000	7,400	569	1659	238	6	43	77.4	19.36		1.23	8785.29	0.17	1216.43		645.00	945070.00	15	25497.00
11/26/10 22:15	196,800	12,400	954	1653	238	10	41	73.8	17.21		1.97	8787.26	0.27	1216.70		615.00	945685.00	15	25512.00
11/26/10 22:30	137,600	9,800	754	1642	238	13	35	63	17.21		1.33	8788.59	0.18	1216.88		525.00	946210.00	15	25527.00
11/26/10 22:45	264,000	17,400	1,338	1682	238	10	42	75.6	17.21		2.83	8791.43	0.39	1217.27		630.00	946840.00	15	25542.00
11/26/10 23:00	144,000	9,500	731	1647	238	9	40	72	21.51		1.47	8792.90	0.20	1217.48		600.00	947440.00	15	25557.00
11/26/10 23:15	91,200	6,200	477	1679	238	10	39	70.2	17.21		0.94	8793.84	0.13	1217.61		585.00	948025.00	15	25572.00
11/26/10 23:30	60,800	4,000	308	1654	238	9	42	75.6	17.21		0.65	8794.49	0.09	1217.70		630.00	948655.00	15	25587.00
11/26/10 23:45	16,000	1,100	85	1660	238	10	39	70.2	17.21		0.17	8794.66	0.02	1217.72		585.00	949240.00	15	25602.00
11/27/10 0:00	228,800	14,400	1,108	1643	238	8	43	77.4	17.21		2.40	8797.06	0.33	1218.05		645.00	949885.00	15	25617.00
11/27/10 0:15	168,000	11,100	854	1653	238	11	39	70.2	19.36		1.68	8798.74	0.23	1218.29		585.00	950470.00	15	25632.00
11/27/10 0:30	128,000	8,200	631	1659	238	9	41	73.8	19.36		1.30	8800.04	0.18	1218.47		615.00	951085.00	15	25647.00
11/27/10 0:45	201,600	13,300	1,023	1658	238	10	39	70.2	21.51		2.01	8802.05	0.28	1218.75		585.00	951670.00	15	25662.00
11/27/10 1:00	16,000	1,200	92	1663	238	9	40	72	17.21		0.19	8802.24	0.03	1218.77		600.00	952270.00	15	25677.00
11/27/10 1:15	40,000	2,700	208	1679	238	10	39	70.2	17.21		0.41	8802.65	0.06	1218.83		585.00	952855.00</		

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/27/10 2:29	233,600	14,700	1,131	1644	238	8	43	77.4	19.36		2.45	8811.32	0.34	1220.03		645.00	955903.00	15	25766.00
11/27/10 2:44	155,200	10,300	792	1645	238	9	40	72	17.21		1.60	8812.91	0.22	1220.25		600.00	956503.00	15	25781.00
11/27/10 2:59	224,000	14,800	1,138	1653	238	11	40	72	19.36		2.30	8815.21	0.32	1220.57		600.00	957103.00	15	25796.00
11/27/10 3:14	75,200	4,900	377	1654	238	8	40	72	19.36		0.76	8815.97	0.11	1220.67		600.00	957703.00	15	25811.00
11/27/10 3:29	150,400	9,400	723	1652	238	8	41	73.8	17.21		1.49	8817.46	0.21	1220.88		615.00	958318.00	15	25826.00
11/27/10 3:44	225,600	14,200	1,092	1675	238	8	43	77.4	19.36		2.37	8819.83	0.33	1221.21		645.00	958963.00	15	25841.00
11/27/10 3:59	206,400	13,300	1,023	1665	238	9	41	73.8	19.36		2.11	8821.95	0.29	1221.50		615.00	959578.00	15	25856.00
11/27/10 4:14	60,800	4,400	338	1672	238	12	37	66.6	15.06		0.63	8822.58	0.09	1221.59		555.00	960133.00	15	25871.00
11/27/10 4:29	64,000	4,300	331	1644	238	9	40	72	19.36		0.67	8823.24	0.09	1221.68		600.00	960733.00	15	25886.00
11/27/10 4:44	156,800	10,600	815	1657	238	10	40	72	17.21		1.64	8824.89	0.23	1221.91		600.00	961333.00	15	25901.00
11/27/10 4:59	248,000	15,600	1,200	1642	238	8	42	75.6	19.36		2.54	8827.43	0.35	1222.26		630.00	961963.00	15	25916.00
11/27/10 5:14	40,000	2,600	200	1655	238	8	40	72	17.21		0.40	8827.83	0.06	1222.32		600.00	962563.00	15	25931.00
11/27/10 5:29	52,800	4,100	315	1665	238	9	34	61.2	17.21		0.54	8828.37	0.07	1222.39		510.00	963073.00	15	25946.00
11/27/10 5:44	132,800	8,900	685	1624	238	10	39	70.2	17.21		1.35	8829.72	0.19	1222.58		585.00	963658.00	15	25961.00
11/27/10 5:59	216,000	14,200	1,092	1646	238	10	40	72	19.36		2.20	8831.92	0.30	1222.88		600.00	964258.00	15	25976.00
11/27/10 6:14	33,600	2,200	169	1656	238	7	41	73.8	21.51		0.35	8832.27	0.05	1222.93		615.00	964873.00	15	25991.00
11/27/10 6:29	217,600	14,000	1,077	1654	238	9	41	73.8	17.21		2.23	8834.50	0.31	1223.24		615.00	965488.00	15	26006.00
11/27/10 6:44	147,200	9,500	731	1657	238	9	41	73.8	19.36		1.51	8836.01	0.21	1223.45		615.00	966103.00	15	26021.00
11/27/10 6:59	30,400	2,000	154	1658	238	7	39	70.2	21.51		0.30	8836.31	0.04	1223.49		585.00	966688.00	15	26036.00
11/27/10 7:14	60,800	3,900	300	1629	238	9	41	73.8	17.21		0.62	8836.93	0.09	1223.57		615.00	967303.00	15	26051.00
11/27/10 7:29	3,200	200	15	1651	238	8	40	72	17.21		0.03	8836.96	0.00	1223.58		600.00	967903.00	15	26066.00
11/27/10 7:44	60,800	4,200	323	1644	238	9	37	66.6	21.51		0.60	8837.56	0.08	1223.66		555.00	968458.00	15	26081.00
11/27/10 7:59	91,200	6,100	469	1652	238	9	39	70.2	17.21		0.92	8838.48	0.13	1223.79		585.00	969043.00	15	26096.00
11/27/10 8:14	102,400	6,900	531	1658	238	10	39	70.2	19.36		1.04	8839.53	0.14	1223.93		585.00	969628.00	15	26111.00
11/27/10 8:29	100,800	6,600	508	1664	238	9	41	73.8	17.21		1.05	8840.58	0.15	1224.08		615.00	970243.00	15	26126.00
11/27/10 8:44	91,200	6,000	462	1628	238	9	40	72	17.21		0.93	8841.51	0.13	1224.21		600.00	970843.00	15	26141.00
11/27/10 8:59	80,000	5,600	431	1679	238	11	39	70.2	17.21		0.85	8842.35	0.12	1224.33		585.00	971428.00	15	26156.00
11/27/10 9:13	17,600	1,300	100	1643	238	10	37	66.6	17.21		0.17	8842.53	0.02	1224.35		518.00	971946.00	14	26170.00
11/27/10 9:28	40,000	2,900	223	1645	238	12	37	66.6	17.21		0.42	8842.94	0.06	1224.41		555.00	972501.00	15	26185.00
11/27/10 9:43	17,600	1,300	100	1665	238	12	36	64.8	17.21		0.18	8843.13	0.03	1224.43		540.00	973041.00	15	26200.00
11/27/10 9:58	166,400	11,600	892	1665	238	11	39	70.2	17.21		1.75	8844.88	0.24	1224.68		585.00	973626.00	15	26215.00
11/27/10 10:13	211,200	13,600	1,046	1661	238	10	41	73.8	19.36		2.16	8847.04	0.30	1224.98		615.00	974241.00	15	26230.00
11/27/10 10:28	48,000	3,100	238	1644	238	10	39	70.2	21.51		0.47	8847.51	0.06	1225.04		585.00	974826.00	15	26245.00
11/27/10 10:43	81,600	5,300	408	1676	238	9	41	73.8	19.36		0.84	8848.35	0.12	1225.16		615.00	975441.00	15	26260.00
11/27/10 10:58	51,200	3,400	262	1656	238	8	39	70.2	19.36		0.51	8848.87	0.07	1225.23		585.00	976026.00	15	26275.00
11/27/10 11:13	33,600	2,400	185	1648	238	8	39	70.2	19.36		0.36	8849.23	0.05	1225.28		585.00	976611.00	15	26290.00
11/27/10 11:28	51,200	3,300	254	1658	238	7	40	72	19.36		0.51	8849.74	0.07	1225.35		600.00	977211.00	15	26305.00
11/27/10 11:43	168,000	10,300	792	1647	238	8	42	75.6	19.36		1.68	8851.42	0.23	1225.58		630.00	977841.00	15	26320.00
11/27/10 11:58	192,000	12,400	954	1672	238	7	42	75.6	19.36		2.02	8853.44	0.28	1225.86		630.00	978471.00	15	26335.00
11/27/10 12:13	28,800	1,800	138	1628	238	7	41	73.8	25.81		0.29	8853.73	0.04	1225.90		615.00	979086.00	15	26350.00
11/27/10 12:28	84,800	5,200	400	1648	238	6	43	77.4	19.36		0.87	8854.59	0.12	1226.02		645.00	979731.00	15	26365.00
11/27/10 12:43	19,200	1,200	92	1681	236	5	42	75.6	23.66		0.20	8854.79	0.03	1226.05		630.00	980361.00	15	26380.00
11/27/10 12:58	116,800	7,300	562	1653	238	6	42	75.6	21.51		1.19	8855.98	0.16	1226.21		630.00	980991.00	15	26395.00
11/27/10 13:13	220,800	13,300	1,023	1656	238	6	44	79.2	19.36		2.27	8858.25	0.31	1226.53		660.00	981651.00	15	26410.00
11/27/10 13:28	92,800	5,600	431	1658	238	4	44	79.2	21.51		0.96	8859.20	0.13	1226.66		660.00	982311.00	15	26425.00
11/27/10 13:43	137,600	8,300	638	1660	238	4	44	79.2	19.36		1.42	8860.62	0.20	1226.85		660.00	982971.00	15	26440.00
11/27/10 13:58	134,400	8,100	623	1656	238	4	44	79.2	21.51		1.38	8862.00	0.19	1227.05		660.00	983631.00	15	26455.00
11/27/10 14:13	115,200	6,700	515	1657	238	3	45	81	21.51		1.17	8863.17	0.16	1227.21		675.00	984306.00	15	26470.00
11/27/10 14:28	4,800	300	23	1663	182	3	43	77.4	17.21		0.05	8863.22	0.01	1227.21		645.00	984951.00	15	26485.00
11/27/10 14:43	19,200	1,200	92	1664	212	3	42	75.6	21.51		0.20	8863.41	0.03	1227.24		630.00	985581.00	15	26500.00
11/27/10 14:58	152,000	8,900	685	1642	238	4	45	81	21.51		1.55	8864.97	0.22	1227.46		675.00	986256.00	15	26515.00
11/27/10 15:13	32,000	1,900	146	1634	238	3	45	81	21.51		0.33	8865.30	0.05	1227.50		675.00	986931.00	15	26530.00
11/27/10 15:28	124,800	7,400	569	1643	168	3	44	79.2	19.36		1.26	8866.56	0.17	1227.68		660.00	987591.00	15	26545.00
11/27/10 15:43	56,000	3,200	246	1649	214	3	45	81	21.51		0.56	8867.12	0.08	1227.75		675.00	988266.00	15	26560.00
11/27/10 15:58	112,000	6,900	531	1658	128	3	43	77.4	17.21		1.15	8868.27	0.16	1227.91		645.00	988911.00	15	26575.00
11/27/10 16:12	17,600	1,300	100	1641	92	3	36	64.8	15.06		0.17	8868.44	0.02	1227.94		504.00	989415.00	14	26589.00
11/27/10 16:27	49,600	3,100	238	1635	122	3	41	73.8	17.21		0.49	8868.93	0.07	1228.01		615.00	990030.00	15	26604.00
11/27/10 16:42	57,600	4,000	308	1663	76	3	40	72	15.06		0.62	8869.55	0.09	1228.09		600.00	990630.00	15	26619.00
11/27/10 16:57	3,200	200	15	1688	114	3	42	75.6	15.06		0.03	8869.58	0.00	1228.10		630.00	991260.00	15	26634.00
11/27/10 17:12	8,000	500	38	1674	106	4	42	75.6	15.06		0.08	8869.67	0.01	1228.11		630.00	991890.00	15	26649.00
11/27/10 17:27	11,200	800	62	1655	110	3	40	72	19.36		0.12	8869.79	0.02	1228.12		600.00	992490.00	15	26664.00
11/27/10 17:42	14,400	1,																	

**Table A-1**  
**ICE-Recorded (and Adjusted) Data**  
**Cell 1 IM**  
**Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/27/10 18:42	24,000	1,700	131	1673	76	3	40	72	17.21		0.26	8872.05	0.04	1228.44		600.00	995430.00	15	26739.00
11/27/10 18:57	179,200	11,000	846	1680	138	3	43	77.4	19.36		1.83	8873.88	0.25	1228.69		645.00	996075.00	15	26754.00
11/27/10 19:12	0	0	0	1634	90	5	38	68.4	15.06		0.00	8873.88	0.00	1228.69		570.00	996645.00	15	26769.00
11/27/10 19:27	0	0	0	1658	84	3	39	70.2	15.06		0.00	8873.88	0.00	1228.69		585.00	997230.00	15	26784.00
11/27/10 19:42	62,400	4,300	331	1648	94	3	38	68.4	17.21		0.63	8874.51	0.09	1228.78		570.00	997800.00	15	26799.00
11/27/10 19:57	46,400	3,000	231	1661	106	3	41	73.8	17.21		0.48	8874.99	0.07	1228.84		615.00	998415.00	15	26814.00
11/27/10 20:12	72,000	4,500	346	1657	118	3	41	73.8	19.36		0.72	8875.71	0.10	1228.94		615.00	999030.00	15	26829.00
11/27/10 20:27	176,000	11,600	892	1667	84	3	41	73.8	17.21		1.84	8877.55	0.26	1229.20		615.00	999645.00	15	26844.00
11/27/10 20:42	134,400	8,400	646	1651	116	3	42	75.6	19.36		1.37	8878.92	0.19	1229.39		630.00	1000275.00	15	26859.00
11/27/10 20:57	52,800	3,400	262	1629	128	3	41	73.8	19.36		0.54	8879.46	0.07	1229.46		615.00	1000890.00	15	26874.00
11/27/10 21:12	43,200	3,000	231	1644	130	3	37	66.6	17.21		0.43	8879.89	0.06	1229.52		555.00	1001445.00	15	26889.00
11/27/10 21:27	28,800	1,800	138	1673	130	3	40	72	21.51		0.28	8880.17	0.04	1229.56		600.00	1002045.00	15	26904.00
11/27/10 21:42	153,600	9,900	762	1649	182	3	41	73.8	19.36		1.57	8881.74	0.22	1229.78		615.00	1002660.00	15	26919.00
11/27/10 21:57	4,800	200	15	1649	218	3	43	77.4	21.51		0.03	8881.78	0.00	1229.78		645.00	1003305.00	15	26934.00
11/27/10 22:12	204,800	12,300	946	1661	238	4	45	81	21.51		2.15	8883.92	0.30	1230.08		675.00	1003980.00	15	26949.00
11/27/10 22:27	148,800	9,800	754	1632	238	5	40	72	21.51		1.52	8885.44	0.21	1230.29		600.00	1004580.00	15	26964.00
11/27/10 22:42	48,000	2,900	223	1659	238	5	43	77.4	19.36		0.48	8885.93	0.07	1230.36		645.00	1005225.00	15	26979.00
11/27/10 22:57	153,600	10,200	785	1662	236	5	40	72	21.51		1.58	8887.51	0.22	1230.58		600.00	1005825.00	15	26994.00
11/27/10 23:11	40,000	2,500	192	1661	238	6	43	77.4	19.36		0.39	8887.90	0.05	1230.63		602.00	1006427.00	14	27008.00
11/27/10 23:26	52,800	3,300	254	1675	238	6	42	75.6	19.36		0.54	8888.43	0.07	1230.71		630.00	1007057.00	15	27023.00
11/27/10 23:41	35,200	2,300	177	1674	238	6	42	75.6	19.36		0.37	8888.81	0.05	1230.76		630.00	1007687.00	15	27038.00
11/27/10 23:56	110,400	6,800	523	1663	238	6	42	75.6	19.36		1.11	8889.92	0.15	1230.91		630.00	1008317.00	15	27053.00
11/28/10 0:11	76,800	4,900	377	1662	238	5	43	77.4	19.36		0.82	8890.73	0.11	1231.02		645.00	1008962.00	15	27068.00
11/28/10 0:26	25,600	1,600	123	1656	238	6	42	75.6	19.36		0.26	8890.99	0.04	1231.06		630.00	1009592.00	15	27083.00
11/28/10 0:41	104,000	6,500	500	1641	238	5	42	75.6	19.36		1.06	8892.05	0.15	1231.21		630.00	1010222.00	15	27098.00
11/28/10 0:56	8,000	600	46	1652	238	6	41	73.8	21.51		0.10	8892.15	0.01	1231.22		615.00	1010837.00	15	27113.00
11/28/10 1:11	32,000	2,000	154	1648	238	5	42	75.6	19.36		0.33	8892.47	0.05	1231.27		630.00	1011467.00	15	27128.00
11/28/10 1:26	88,000	5,600	431	1678	238	6	42	75.6	19.36		0.91	8893.38	0.13	1231.39		630.00	1012097.00	15	27143.00
11/28/10 1:41	195,200	12,000	923	1656	238	6	43	77.4	19.36		2.00	8895.39	0.28	1231.67		645.00	1012742.00	15	27158.00
11/28/10 1:56	158,400	9,700	746	1656	238	5	43	77.4	21.51		1.62	8897.00	0.22	1231.89		645.00	1013387.00	15	27173.00
11/28/10 2:11	158,400	9,700	746	1648	238	5	43	77.4	21.51		1.62	8898.62	0.22	1232.12		645.00	1014032.00	15	27188.00
11/28/10 2:26	44,800	3,200	246	1681	238	5	39	70.2	21.51		0.48	8899.10	0.07	1232.18		585.00	1014617.00	15	27203.00
11/28/10 2:41	102,400	6,500	500	1667	238	6	42	75.6	19.36		1.06	8900.16	0.15	1232.33		630.00	1015247.00	15	27218.00
11/28/10 2:56	136,000	8,600	662	1665	238	4	44	79.2	19.36		1.47	8901.63	0.20	1232.53		660.00	1015907.00	15	27233.00
11/28/10 3:11	145,600	8,900	685	1648	238	6	43	77.4	19.36		1.48	8903.11	0.21	1232.74		645.00	1016552.00	15	27248.00
11/28/10 3:26	83,200	5,100	392	1649	238	5	43	77.4	19.36		0.85	8903.96	0.12	1232.86		645.00	1017197.00	15	27263.00
11/28/10 3:41	225,600	13,900	1,069	1676	238	6	43	77.4	19.36		2.32	8906.28	0.32	1233.18		645.00	1017842.00	15	27278.00
11/28/10 3:56	25,600	1,800	138	1675	238	5	39	70.2	21.51		0.27	8906.55	0.04	1233.22		585.00	1018427.00	15	27293.00
11/28/10 4:11	14,400	900	69	1645	238	5	43	77.4	19.36		0.15	8906.70	0.02	1233.24		645.00	1019072.00	15	27308.00
11/28/10 4:26	78,400	4,800	369	1665	238	4	43	77.4	19.36		0.80	8907.50	0.11	1233.35		645.00	1019717.00	15	27323.00
11/28/10 4:41	142,400	9,100	700	1642	238	5	41	73.8	21.51		1.45	8908.95	0.20	1233.55		615.00	1020332.00	15	27338.00
11/28/10 4:56	17,600	1,200	92	1656	238	6	40	72	21.51		0.19	8909.14	0.03	1233.57		600.00	1020932.00	15	27353.00
11/28/10 5:11	65,600	4,000	308	1641	238	4	43	77.4	19.36		0.67	8909.80	0.09	1233.67		645.00	1021577.00	15	27368.00
11/28/10 5:26	136,000	8,500	654	1633	238	5	42	75.6	21.51		1.38	8911.19	0.19	1233.86		630.00	1022207.00	15	27383.00
11/28/10 5:41	56,000	3,500	269	1667	238	6	42	75.6	19.36		0.57	8911.76	0.08	1233.94		630.00	1022837.00	15	27398.00
11/28/10 5:56	150,400	9,000	692	1663	238	4	44	79.2	19.36		1.54	8913.29	0.21	1234.15		660.00	1023497.00	15	27413.00
11/28/10 6:10	48,000	3,000	231	1659	238	4	42	75.6	21.51		0.46	8913.75	0.06	1234.21		588.00	1024085.00	14	27427.00
11/28/10 6:25	38,400	2,400	185	1647	238	4	42	75.6	21.51		0.39	8914.14	0.05	1234.27		630.00	1024715.00	15	27442.00
11/28/10 6:40	43,200	2,600	200	1681	230	3	44	79.2	21.51		0.44	8914.58	0.06	1234.33		660.00	1025375.00	15	27457.00
11/28/10 6:55	88,000	5,300	408	1649	232	4	44	79.2	21.51		0.90	8915.49	0.13	1234.45		660.00	1026035.00	15	27472.00
11/28/10 7:10	25,600	1,600	123	1663	238	4	42	75.6	21.51		0.26	8915.75	0.04	1234.49		630.00	1026665.00	15	27487.00
11/28/10 7:25	1,600	100	8	1651	238	4	41	73.8	19.36		0.02	8915.76	0.00	1234.49		615.00	1027280.00	15	27502.00
11/28/10 7:40	78,400	4,800	369	1636	238	4	43	77.4	19.36		0.80	8916.57	0.11	1234.60		645.00	1027925.00	15	27517.00
11/28/10 7:55	204,800	12,000	923	1626	238	4	44	79.2	21.51		2.05	8918.61	0.28	1234.88		660.00	1028585.00	15	27532.00
11/28/10 8:10	169,600	10,100	777	1683	232	3	44	79.2	21.51		1.72	8920.34	0.24	1235.12		660.00	1029245.00	15	27547.00
11/28/10 8:25	100,800	6,200	477	1643	238	4	43	77.4	19.36		1.03	8921.37	0.14	1235.27		645.00	1029890.00	15	27562.00
11/28/10 8:40	16,000	1,000	77	1670	238	4	43	77.4	21.51		0.17	8921.54	0.02	1235.29		645.00	1030535.00	15	27577.00
11/28/10 8:55	123,200	7,700	592	1642	238	5	42	75.6	19.36		1.25	8922.79	0.17	1235.46		630.00	1031165.00	15	27592.00
11/28/10 9:10	24,000	1,500	115	1633	238	5	42	75.6	19.36		0.24	8923.03	0.03	1235.50		630.00	1031795.00	15	27607.00
11/28/10 9:25	124,800	7,500	577	1640	238	5	43	77.4	19.36		1.25	8924.28	0.17	1235.67		645.00	1032440.00	15	27622.00
11/28/10 9:40	209,600	12,300	946	1653	238	5	45	81	21.51		2.15	8926.43	0.30	1235.97		675.00	1033115.00	15	27637.00
11/28/10																			

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/28/10 10:55	12,800	800	62	1673	238	6	42	75.6	21.51		0.13	8932.65	0.02	1236.83		630.00	1036355.00	15	27712.00
11/28/10 11:10	260,800	15,300	1,177	1665	238	5	45	81	19.36		2.67	8935.32	0.37	1237.20		675.00	1037030.00	15	27727.00
11/28/10 11:25	124,800	7,500	577	1647	238	6	43	77.4	19.36		1.25	8936.57	0.17	1237.37		645.00	1037675.00	15	27742.00
11/28/10 11:40	209,600	12,800	985	1649	238	7	43	77.4	21.51		2.13	8938.70	0.30	1237.67		645.00	1038320.00	15	27757.00
11/28/10 11:55	104,000	6,600	508	1641	238	8	41	73.8	19.36		1.05	8939.75	0.15	1237.81		615.00	1038935.00	15	27772.00
11/28/10 12:10	174,400	10,500	808	1665	238	7	45	81	19.36		1.83	8941.58	0.25	1238.07		675.00	1039610.00	15	27787.00
11/28/10 12:25	240,000	14,700	1,131	1673	238	8	44	79.2	32.27		2.51	8944.09	0.35	1238.41		660.00	1040270.00	15	27802.00
11/28/10 12:40	201,600	12,700	977	1633	238	9	42	75.6	19.36		2.07	8946.16	0.29	1238.70		630.00	1040900.00	15	27817.00
11/28/10 12:55	56,000	3,500	269	1649	238	9	42	75.6	19.36		0.57	8946.73	0.08	1238.78		630.00	1041530.00	15	27832.00
11/28/10 13:09	17,600	1,200	92	1635	238	10	38	68.4	21.51		0.17	8946.90	0.02	1238.80		532.00	1042062.00	14	27846.00
11/28/10 13:24	64,000	4,200	323	1644	238	10	41	73.8	19.36		0.67	8947.56	0.09	1238.89		615.00	1042677.00	15	27861.00
11/28/10 13:39	209,600	13,200	1,015	1641	238	10	42	75.6	19.36		2.15	8949.71	0.30	1239.19		630.00	1043307.00	15	27876.00
11/28/10 13:54	35,200	2,400	185	1678	238	11	40	72	21.51		0.37	8950.09	0.05	1239.24		600.00	1043907.00	15	27891.00
11/28/10 14:09	112,000	7,200	554	1651	238	10	41	73.8	17.21		1.14	8951.23	0.16	1239.40		615.00	1044522.00	15	27906.00
11/28/10 14:24	11,200	700	54	1661	238	10	41	73.8	19.36		0.11	8951.34	0.02	1239.42		615.00	1045137.00	15	27921.00
11/28/10 14:39	75,200	5,100	392	1660	238	11	40	72	19.36		0.79	8952.13	0.11	1239.53		600.00	1045737.00	15	27936.00
11/28/10 14:54	219,200	14,100	1,085	1674	238	10	42	75.6	19.36		2.30	8954.43	0.32	1239.84		630.00	1046367.00	15	27951.00
11/28/10 15:09	96,000	7,100	546	1635	238	12	36	64.8	19.36		0.99	8955.42	0.14	1239.98		540.00	1046907.00	15	27966.00
11/28/10 15:24	12,800	900	69	1675	238	12	38	68.4	21.51		0.13	8955.55	0.02	1240.00		570.00	1047477.00	15	27981.00
11/28/10 15:39	108,800	7,000	538	1649	238	11	40	72	17.21		1.09	8956.64	0.15	1240.15		600.00	1048077.00	15	27996.00
11/28/10 15:54	112,000	7,400	569	1661	238	12	40	72	19.36		1.15	8957.79	0.16	1240.31		600.00	1048677.00	15	28011.00
11/28/10 16:09	48,000	3,300	254	1659	238	11	40	72	19.36		0.51	8958.30	0.07	1240.38		600.00	1049277.00	15	28026.00
11/28/10 16:24	104,000	6,800	523	1675	238	10	45	81	19.36		1.19	8959.48	0.16	1240.54		675.00	1049952.00	15	28041.00
11/28/10 16:39	73,600	4,800	369	1639	238	10	41	73.8	19.36		0.76	8960.25	0.11	1240.65		615.00	1050567.00	15	28056.00
11/28/10 16:54	49,600	3,300	254	1643	238	10	40	72	17.21		0.51	8960.76	0.07	1240.72		600.00	1051167.00	15	28071.00
11/28/10 17:09	145,600	9,400	723	1633	238	10	41	73.8	17.21		1.49	8962.25	0.21	1240.93		615.00	1051782.00	15	28086.00
11/28/10 17:24	174,400	11,600	892	1662	238	10	40	72	19.36		1.80	8964.05	0.25	1241.18		600.00	1052382.00	15	28101.00
11/28/10 17:39	36,800	2,500	192	1620	238	10	39	70.2	19.36		0.38	8964.43	0.05	1241.23		585.00	1052967.00	15	28116.00
11/28/10 17:54	331,200	20,900	1,608	1645	238	10	40	72	19.36		3.24	8967.67	0.45	1241.68		600.00	1053567.00	15	28131.00
11/28/10 18:09	212,800	13,700	1,054	1669	238	10	40	72	19.36		2.12	8969.80	0.29	1241.97		600.00	1054167.00	15	28146.00
11/28/10 18:24	25,600	1,800	138	1646	238	11	39	70.2	19.36		0.27	8970.07	0.04	1242.01		585.00	1054752.00	15	28161.00
11/28/10 18:39	113,600	7,500	577	1641	238	11	39	70.2	19.36		1.13	8971.20	0.16	1242.17		585.00	1055337.00	15	28176.00
11/28/10 18:54	36,800	2,600	200	1656	238	11	38	68.4	17.21		0.38	8971.59	0.05	1242.22		570.00	1055907.00	15	28191.00
11/28/10 19:09	156,800	10,400	800	1691	238	10	41	73.8	19.36		1.65	8973.24	0.23	1242.45		615.00	1056522.00	15	28206.00
11/28/10 19:24	33,600	2,400	185	1637	238	10	36	64.8	19.36		0.34	8973.57	0.05	1242.49		540.00	1057062.00	15	28221.00
11/28/10 19:39	115,200	8,000	615	1676	238	10	39	70.2	17.21		1.21	8974.78	0.17	1242.66		585.00	1057647.00	15	28236.00
11/28/10 19:54	12,800	800	62	1638	238	9	42	75.6	19.36		0.13	8974.91	0.02	1242.68		630.00	1058277.00	15	28251.00
11/28/10 20:08	214,400	14,200	1,092	1676	238	10	41	73.8	17.21		2.11	8977.02	0.29	1242.97		574.00	1058851.00	14	28265.00
11/28/10 20:23	161,600	11,000	846	1631	238	10	38	68.4	19.36		1.62	8978.64	0.22	1243.20		570.00	1059421.00	15	28280.00
11/28/10 20:38	259,200	17,100	1,315	1659	238	11	40	72	19.36		2.65	8981.29	0.37	1243.56		600.00	1060021.00	15	28295.00
11/28/10 20:53	142,400	9,100	700	1633	238	10	40	72	19.36		1.41	8982.71	0.20	1243.76		600.00	1060621.00	15	28310.00
11/28/10 21:08	40,000	2,700	208	1658	238	10	39	70.2	19.36		0.41	8983.11	0.06	1243.82		585.00	1061206.00	15	28325.00
11/28/10 21:23	17,600	1,200	92	1658	238	9	40	72	19.36		0.19	8983.30	0.03	1243.84		600.00	1061806.00	15	28340.00
11/28/10 21:38	257,600	16,600	1,277	1668	238	10	41	73.8	19.36		2.64	8985.94	0.37	1244.21		615.00	1062421.00	15	28355.00
11/28/10 21:53	44,800	2,900	223	1664	238	10	40	72	19.36		0.45	8986.39	0.06	1244.27		600.00	1063021.00	15	28370.00
11/28/10 22:08	113,600	7,700	592	1675	238	11	40	72	17.21		1.19	8987.58	0.17	1244.43		600.00	1063621.00	15	28385.00
11/28/10 22:23	32,000	2,100	162	1674	238	9	39	70.2	19.36		0.32	8987.90	0.04	1244.48		585.00	1064206.00	15	28400.00
11/28/10 22:38	4,800	400	31	1650	238	10	39	70.2	19.36		0.06	8987.96	0.01	1244.49		585.00	1064791.00	15	28415.00
11/28/10 22:53	193,600	13,100	1,008	1673	238	9	41	73.8	19.36		2.08	8990.04	0.29	1244.78		615.00	1065406.00	15	28430.00
11/28/10 23:08	16,000	1,100	85	1657	238	9	40	72	17.21		0.17	8990.21	0.02	1244.80		600.00	1066006.00	15	28445.00
11/28/10 23:23	212,800	14,000	1,077	1646	238	10	40	72	19.36		2.17	8992.39	0.30	1245.10		600.00	1066606.00	15	28460.00
11/28/10 23:38	139,200	9,400	723	1659	238	9	39	70.2	19.36		1.42	8993.81	0.20	1245.30		585.00	1067191.00	15	28475.00
11/28/10 23:53	217,600	14,000	1,077	1646	238	10	41	73.8	19.36		2.23	8996.03	0.31	1245.60		615.00	1067806.00	15	28490.00
11/29/10 0:08	36,800	2,300	177	1644	238	9	41	73.8	21.51		0.37	8996.40	0.05	1245.66		615.00	1068421.00	15	28505.00
11/29/10 0:23	174,400	11,500	885	1658	238	10	40	72	19.36		1.78	8998.18	0.25	1245.90		600.00	1069021.00	15	28520.00
11/29/10 0:38	19,200	1,300	100	1641	238	11	40	72	19.36		0.20	8998.38	0.03	1245.93		600.00	1069621.00	15	28535.00
11/29/10 0:53	120,000	7,700	592	1638	238	9	40	72	19.36		1.19	8999.58	0.17	1246.10		600.00	1070221.00	15	28550.00
11/29/10 1:08	144,000	9,700	746	1646	238	10	39	70.2	19.36		1.47	9001.05	0.20	1246.30		585.00	1070806.00	15	28565.00
11/29/10 1:23	214,400	14,200	1,092	1674	238	10	40	72	19.36		2.20	9003.25	0.30	1246.60		600.00	1071406.00	15	28580.00
11/29/10 1:38	104,000	6,900	531	1672	238	10	41	73.8	17.21		1.10	9004.34	0.15	1246.76		615.00	1072021.00	15	28595.00
11/29/10 1:53	38,400	2,600	200	1632	238	9	39	70.2	21.51		0.								

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/29/10 3:07	30,400	2,000	154	1655	238	9	39	70.2	21.51		0.28	9009.93	0.04	1247.53		546.00	1075522.00	14	28684.00
11/29/10 3:22	57,600	3,900	300	1640	238	11	38	68.4	17.21		0.57	9010.51	0.08	1247.61		570.00	1076092.00	15	28699.00
11/29/10 3:37	83,200	5,600	431	1675	238	10	39	70.2	19.36		0.85	9011.35	0.12	1247.73		585.00	1076677.00	15	28714.00
11/29/10 3:52	112,000	7,400	569	1629	238	9	40	72	19.36		1.15	9012.50	0.16	1247.88		600.00	1077277.00	15	28729.00
11/29/10 4:07	100,800	7,000	538	1646	238	10	39	70.2	19.36		1.06	9013.56	0.15	1248.03		585.00	1077862.00	15	28744.00
11/29/10 4:22	14,400	1,000	77	1622	238	10	38	68.4	21.51		0.15	9013.71	0.02	1248.05		570.00	1078432.00	15	28759.00
11/29/10 4:37	112,000	7,800	600	1674	238	9	37	66.6	19.36		1.12	9014.82	0.15	1248.21		555.00	1078987.00	15	28774.00
11/29/10 4:52	112,000	7,600	585	1641	238	10	38	68.4	19.36		1.12	9015.94	0.16	1248.36		570.00	1079557.00	15	28789.00
11/29/10 5:07	19,200	1,300	100	1665	238	9	40	72	19.36		0.20	9016.15	0.03	1248.39		600.00	1080157.00	15	28804.00
11/29/10 5:22	14,400	1,000	77	1647	238	11	38	68.4	19.36		0.15	9016.29	0.02	1248.41		570.00	1080727.00	15	28819.00
11/29/10 5:37	88,000	6,200	477	1671	238	10	39	70.2	19.36		0.94	9017.23	0.13	1248.54		585.00	1081312.00	15	28834.00
11/29/10 5:52	1,600	100	8	1662	238	9	40	72	17.21		0.02	9017.25	0.00	1248.54		600.00	1081912.00	15	28849.00
11/29/10 6:07	108,800	7,200	554	1655	238	10	40	72	17.21		1.12	9018.36	0.15	1248.70		600.00	1082512.00	15	28864.00
11/29/10 6:22	124,800	8,400	646	1650	238	9	40	72	19.36		1.30	9019.67	0.18	1248.88		600.00	1083112.00	15	28879.00
11/29/10 6:37	182,400	12,000	923	1677	238	9	40	72	17.21		1.86	9021.53	0.26	1249.13		600.00	1083712.00	15	28894.00
11/29/10 6:52	6,400	500	38	1629	238	9	37	66.6	19.36		0.07	9021.60	0.01	1249.14		555.00	1084267.00	15	28909.00
11/29/10 7:07	153,600	10,500	808	1631	238	9	39	70.2	19.36		1.59	9023.19	0.22	1249.36		585.00	1084852.00	15	28924.00
11/29/10 7:22	219,200	14,500	1,115	1629	238	9	40	72	19.36		2.25	9025.44	0.31	1249.68		600.00	1085452.00	15	28939.00
11/29/10 7:37	67,200	4,500	346	1662	238	9	40	72	19.36		0.70	9026.13	0.10	1249.77		600.00	1086052.00	15	28954.00
11/29/10 7:52	105,600	7,000	538	1665	238	9	40	72	19.36		1.09	9027.22	0.15	1249.92		600.00	1086652.00	15	28969.00
11/29/10 8:07	102,400	6,800	523	1656	238	9	40	72	21.51		1.05	9028.27	0.15	1250.07		600.00	1087252.00	15	28984.00
11/29/10 8:22	164,800	10,700	823	1626	238	8	41	73.8	19.36		1.70	9029.98	0.24	1250.30		615.00	1087867.00	15	28999.00
11/29/10 8:37	145,600	9,600	738	1658	238	9	40	72	19.36		1.49	9031.46	0.21	1250.51		600.00	1088467.00	15	29014.00
11/29/10 8:52	6,400	400	31	1642	238	9	38	68.4	21.51		0.06	9031.52	0.01	1250.52		570.00	1089037.00	15	29029.00
11/29/10 9:07	70,400	4,700	362	1642	238	10	39	70.2	19.36		0.71	9032.23	0.10	1250.62		585.00	1089622.00	15	29044.00
11/29/10 9:22	136,000	9,000	692	1656	238	10	40	72	19.36		1.40	9033.63	0.19	1250.81		600.00	1090222.00	15	29059.00
11/29/10 9:37	214,400	13,800	1,062	1641	238	10	40	72	19.36		2.14	9035.77	0.30	1251.11		600.00	1090822.00	15	29074.00
11/29/10 9:51	81,600	5,200	400	1648	238	9	41	73.8	19.36		0.77	9036.54	0.11	1251.21		574.00	1091396.00	14	29088.00
11/29/10 10:06	28,800	2,000	154	1680	238	10	39	70.2	19.36		0.30	9036.84	0.04	1251.26		585.00	1091981.00	15	29103.00
11/29/10 10:21	171,200	11,300	869	1669	238	9	40	72	19.36		1.75	9038.60	0.24	1251.50		600.00	1092581.00	15	29118.00
11/29/10 10:36	248,000	16,400	1,262	1659	238	11	39	70.2	19.36		2.48	9041.08	0.34	1251.84		585.00	1093166.00	15	29133.00
11/29/10 10:51	128,000	8,500	654	1666	238	9	40	72	19.36		1.32	9042.39	0.18	1252.02		600.00	1093766.00	15	29148.00
11/29/10 11:06	174,400	11,500	885	1651	238	11	39	70.2	19.36		1.74	9044.13	0.24	1252.26		585.00	1094351.00	15	29163.00
11/29/10 11:21	108,800	7,600	585	1627	238	11	38	68.4	19.36		1.12	9045.25	0.16	1252.42		570.00	1094921.00	15	29178.00
11/29/10 11:36	43,200	3,000	231	1669	238	12	38	68.4	21.51		0.44	9045.70	0.06	1252.48		570.00	1095491.00	15	29193.00
11/29/10 11:51	118,400	8,500	654	1656	238	12	37	66.6	19.36		1.22	9046.92	0.17	1252.65		555.00	1096046.00	15	29208.00
11/29/10 12:06	300,800	19,300	1,485	1624	238	11	40	72	19.36		2.99	9049.91	0.41	1253.06		600.00	1096646.00	15	29223.00
11/29/10 12:21	137,600	9,600	738	1636	238	12	38	68.4	21.51		1.41	9051.32	0.20	1253.26		570.00	1097216.00	15	29238.00
11/29/10 12:36	275,200	18,100	1,392	1662	238	11	41	73.8	17.21		2.88	9054.20	0.40	1253.66		615.00	1097831.00	15	29253.00
11/29/10 12:51	264,000	17,900	1,377	1663	238	13	39	70.2	19.36		2.71	9056.91	0.37	1254.03		585.00	1098416.00	15	29268.00
11/29/10 13:06	110,400	7,900	608	1675	238	13	38	68.4	19.36		1.16	9058.07	0.16	1254.19		570.00	1098986.00	15	29283.00
11/29/10 13:21	208,000	14,100	1,085	1677	238	13	39	70.2	19.36		2.13	9060.20	0.30	1254.49		585.00	1099571.00	15	29298.00
11/29/10 13:36	68,800	5,100	392	1664	238	15	37	66.6	17.21		0.73	9060.94	0.10	1254.59		555.00	1100126.00	15	29313.00
11/29/10 13:51	72,000	5,000	385	1629	238	13	37	66.6	19.36		0.72	9061.65	0.10	1254.69		555.00	1100681.00	15	29328.00
11/29/10 14:06	150,400	10,500	808	1666	238	13	39	70.2	17.21		1.59	9063.24	0.22	1254.91		585.00	1101266.00	15	29343.00
11/29/10 14:21	20,800	1,500	115	1654	238	12	38	68.4	19.36		0.22	9063.46	0.03	1254.94		570.00	1101836.00	15	29358.00
11/29/10 14:36	275,200	18,200	1,400	1652	238	13	39	70.2	19.36		2.75	9066.21	0.38	1255.32		585.00	1102421.00	15	29373.00
11/29/10 14:51	187,200	12,700	977	1669	238	13	39	70.2	19.36		1.92	9068.13	0.27	1255.59		585.00	1103006.00	15	29388.00
11/29/10 15:06	70,400	5,000	385	1682	238	13	38	68.4	17.21		0.74	9068.87	0.10	1255.69		570.00	1103576.00	15	29403.00
11/29/10 15:21	22,400	1,800	138	1671	238	16	33	59.4	17.21		0.23	9069.10	0.03	1255.72		495.00	1104071.00	15	29418.00
11/29/10 15:36	116,800	8,600	662	1644	238	15	36	64.8	21.51		1.20	9070.30	0.17	1255.89		540.00	1104611.00	15	29433.00
11/29/10 15:51	86,400	6,500	500	1657	238	17	35	63	17.21		0.88	9071.18	0.12	1256.01		525.00	1105136.00	15	29448.00
11/29/10 16:06	123,200	8,300	638	1646	238	14	38	68.4	17.21		1.22	9072.41	0.17	1256.18		570.00	1105706.00	15	29463.00
11/29/10 16:21	73,600	5,200	400	1679	238	15	37	66.6	17.21		0.75	9073.15	0.10	1256.28		555.00	1106261.00	15	29478.00
11/29/10 16:36	187,200	13,000	1,000	1635	238	15	37	66.6	17.21		1.87	9075.02	0.26	1256.54		555.00	1106816.00	15	29493.00
11/29/10 16:50	145,600	10,100	777	1676	238	14	39	70.2	17.21		1.43	9076.44	0.20	1256.74		546.00	1107362.00	14	29507.00
11/29/10 17:05	62,400	4,400	338	1658	238	14	37	66.6	19.36		0.63	9077.07	0.09	1256.83		555.00	1107917.00	15	29522.00
11/29/10 17:20	192,000	13,700	1,054	1679	238	13	39	70.2	17.21		2.07	9079.15	0.29	1257.11		585.00	1108502.00	15	29537.00
11/29/10 17:35	224,000	15,200	1,169	1646	238	13	38	68.4	10.76		2.24	9081.39	0.31	1257.42		570.00	1109072.00	15	29552.00
11/29/10 17:50	161,600	10,900	838	1665	238	12	39	70.2	19.36		1.65	9083.03	0.23	1257.65		585.00	1109657.00	15	29567.00
11/29/10 18:05	241,600	16,000	1,231	1651	238	12	37	66.6	17.21		2.30</								

**Table A-1**  
**ICE-Recorded (and Adjusted) Data**  
**Cell 1 IM**  
**Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE- Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/29/10 19:20	80,000	5,200	400	1648	238	12	40	72	21.51		0.81	9090.85	0.11	1258.73		600.00	1113077.00	15	29657.00
11/29/10 19:35	102,400	7,400	569	1620	238	11	39	70.2	17.21		1.12	9091.96	0.15	1258.89		585.00	1113662.00	15	29672.00
11/29/10 19:50	40,000	2,700	208	1651	238	12	39	70.2	17.21		0.41	9092.37	0.06	1258.94		585.00	1114247.00	15	29687.00
11/29/10 20:05	148,800	10,100	777	1647	238	11	39	70.2	17.21		1.53	9093.90	0.21	1259.16		585.00	1114832.00	15	29702.00
11/29/10 20:20	190,400	12,900	992	1652	238	11	39	70.2	19.36		1.95	9095.85	0.27	1259.43		585.00	1115417.00	15	29717.00
11/29/10 20:35	137,600	9,300	715	1653	238	11	39	70.2	19.36		1.41	9097.26	0.19	1259.62		585.00	1116002.00	15	29732.00
11/29/10 20:50	65,600	4,500	346	1672	238	12	39	70.2	17.21		0.68	9097.94	0.09	1259.71		585.00	1116587.00	15	29747.00
11/29/10 21:05	96,000	6,700	515	1670	238	12	38	68.4	17.21		0.99	9098.92	0.14	1259.85		570.00	1117157.00	15	29762.00
11/29/10 21:20	48,000	3,500	269	1649	238	13	36	64.8	19.36		0.49	9099.41	0.07	1259.92		540.00	1117697.00	15	29777.00
11/29/10 21:35	152,000	10,300	792	1630	238	12	39	70.2	19.36		1.56	9100.97	0.22	1260.13		585.00	1118282.00	15	29792.00
11/29/10 21:50	116,800	8,300	638	1647	238	13	38	68.4	17.21		1.22	9102.19	0.17	1260.30		570.00	1118852.00	15	29807.00
11/29/10 22:05	184,000	12,800	985	1650	238	11	38	68.4	19.36		1.89	9104.08	0.26	1260.56		570.00	1119422.00	15	29822.00
11/29/10 22:20	65,600	4,600	354	1658	238	13	38	68.4	19.36		0.68	9104.76	0.09	1260.66		570.00	1119992.00	15	29837.00
11/29/10 22:35	113,600	8,400	646	1628	238	14	35	63	19.36		1.14	9105.90	0.16	1260.82		525.00	1120517.00	15	29852.00
11/29/10 22:50	32,000	2,200	169	1651	238	13	38	68.4	21.51		0.32	9106.22	0.04	1260.86		570.00	1121087.00	15	29867.00
11/29/10 23:05	177,600	12,300	946	1660	238	12	39	70.2	19.36		1.86	9108.08	0.26	1261.12		585.00	1121672.00	15	29882.00
11/29/10 23:20	72,000	5,900	454	1673	238	15	32	57.6	19.36		0.73	9108.81	0.10	1261.22		480.00	1122152.00	15	29897.00
11/29/10 23:35	118,400	8,100	623	1664	238	11	40	72	19.36		1.26	9110.07	0.17	1261.39		600.00	1122752.00	15	29912.00
11/29/10 23:49	8,000	500	38	1652	238	13	37	66.6	19.36		0.07	9110.14	0.01	1261.40		518.00	1123270.00	14	29926.00
11/30/10 0:04	86,400	6,600	508	1624	238	15	35	63	17.21		0.90	9111.03	0.12	1261.53		525.00	1123795.00	15	29941.00
11/30/10 0:19	115,200	8,500	654	1678	238	14	36	64.8	19.36		1.19	9112.22	0.16	1261.69		540.00	1124335.00	15	29956.00
11/30/10 0:34	195,200	14,300	1,100	1659	238	15	36	64.8	19.36		2.00	9114.22	0.28	1261.97		540.00	1124875.00	15	29971.00
11/30/10 0:49	115,200	8,300	638	1629	238	14	37	66.6	19.36		1.19	9115.41	0.16	1262.13		555.00	1125430.00	15	29986.00
11/30/10 1:04	4,800	400	31	1672	238	13	36	64.8	21.51		0.06	9115.46	0.01	1262.14		540.00	1125970.00	15	30001.00
11/30/10 1:19	142,400	10,000	769	1680	238	12	38	68.4	19.36		1.47	9116.94	0.20	1262.34		570.00	1126540.00	15	30016.00
11/30/10 1:34	97,600	6,800	523	1628	238	13	37	66.6	19.36		0.98	9117.91	0.14	1262.48		555.00	1127095.00	15	30031.00
11/30/10 1:49	152,000	10,600	815	1658	238	14	36	64.8	21.51		1.48	9119.39	0.20	1262.68		540.00	1127635.00	15	30046.00
11/30/10 2:04	168,000	12,300	946	1668	238	14	37	66.6	23.66		1.76	9121.16	0.24	1262.93		555.00	1128190.00	15	30061.00
11/30/10 2:19	193,600	13,500	1,038	1638	238	14	38	68.4	19.36		1.99	9123.14	0.28	1263.20		570.00	1128760.00	15	30076.00
11/30/10 2:34	76,800	5,700	438	1667	238	14	36	64.8	19.36		0.80	9123.94	0.11	1263.31		540.00	1129300.00	15	30091.00
11/30/10 2:49	104,000	7,100	546	1658	238	13	39	70.2	19.36		1.07	9125.01	0.15	1263.46		585.00	1129885.00	15	30106.00
11/30/10 3:04	102,400	7,100	546	1642	238	13	38	68.4	19.36		1.05	9126.06	0.14	1263.61		570.00	1130455.00	15	30121.00
11/30/10 3:19	22,400	1,700	131	1645	238	14	35	63	19.36		0.23	9126.29	0.03	1263.64		525.00	1130980.00	15	30136.00
11/30/10 3:34	32,000	2,300	177	1636	238	13	35	63	19.36		0.31	9126.60	0.04	1263.68		525.00	1131505.00	15	30151.00
11/30/10 3:49	136,000	10,000	769	1674	238	14	37	66.6	19.36		1.43	9128.04	0.20	1263.88		555.00	1132060.00	15	30166.00
11/30/10 4:04	156,800	11,200	862	1644	238	14	36	64.8	23.66		1.56	9129.60	0.22	1264.10		540.00	1132600.00	15	30181.00
11/30/10 4:19	17,600	1,300	100	1638	238	15	34	61.2	23.66		0.17	9129.77	0.02	1264.12		510.00	1133100.00	15	30196.00
11/30/10 4:34	171,200	12,200	938	1641	238	13	38	68.4	21.51		1.80	9131.57	0.25	1264.37		570.00	1133680.00	15	30211.00
11/30/10 4:49	168,000	11,600	892	1665	238	13	38	68.4	21.51		1.71	9133.28	0.24	1264.61		570.00	1134250.00	15	30226.00
11/30/10 5:04	195,200	13,300	1,023	1647	238	13	39	70.2	21.51		2.01	9135.29	0.28	1264.89		585.00	1134835.00	15	30241.00
11/30/10 5:19	148,800	10,900	838	1647	238	13	36	64.8	19.36		1.52	9136.81	0.21	1265.10		540.00	1135375.00	15	30256.00
11/30/10 5:34	40,000	3,000	231	1672	238	14	35	63	19.36		0.41	9137.22	0.06	1265.15		525.00	1135900.00	15	30271.00
11/30/10 5:49	336,000	23,900	1,838	1655	238	14	38	68.4	19.36		3.52	9140.74	0.49	1265.64		570.00	1136470.00	15	30286.00
11/30/10 6:04	62,400	4,400	338	1642	238	13	38	68.4	19.36		0.65	9141.39	0.09	1265.73		570.00	1137040.00	15	30301.00
11/30/10 6:19	72,000	4,900	377	1665	238	11	39	70.2	19.36		0.74	9142.13	0.10	1265.83		585.00	1137625.00	15	30316.00
11/30/10 6:34	276,800	19,300	1,485	1651	238	13	39	70.2	19.36		2.92	9145.05	0.40	1266.24		585.00	1138210.00	15	30331.00
11/30/10 6:48	120,000	8,300	638	1635	238	14	36	64.8	21.51		1.08	9146.13	0.15	1266.39		504.00	1138714.00	14	30345.00
11/30/10 7:03	208,000	15,800	1,215	1647	238	15	35	63	19.36		2.14	9148.27	0.30	1266.68		525.00	1139239.00	15	30360.00
11/30/10 7:18	94,400	7,000	538	1661	238	14	37	66.6	17.21		1.00	9149.28	0.14	1266.82		555.00	1139794.00	15	30375.00
11/30/10 7:33	225,600	16,100	1,238	1663	238	14	37	66.6	21.51		2.31	9151.59	0.32	1267.14		555.00	1140349.00	15	30390.00
11/30/10 7:48	232,000	17,000	1,308	1653	238	15	35	63	21.51		2.31	9153.89	0.32	1267.46		525.00	1140874.00	15	30405.00
11/30/10 8:03	227,200	16,300	1,254	1644	238	14	38	68.4	19.36		2.40	9156.30	0.33	1267.79		570.00	1141444.00	15	30420.00
11/30/10 8:18	126,400	8,800	677	1646	238	15	36	64.8	19.36		1.23	9157.53	0.17	1267.97		540.00	1141984.00	15	30435.00
11/30/10 8:33	184,000	12,800	985	1647	238	15	37	66.6	19.36		1.84	9159.36	0.25	1268.22		555.00	1142539.00	15	30450.00
11/30/10 8:48	96,000	7,000	538	1653	238	13	36	64.8	19.36		0.98	9160.34	0.14	1268.35		540.00	1143079.00	15	30465.00
11/30/10 9:03	56,000	4,200	323	1653	238	15	35	63	19.36		0.57	9160.91	0.08	1268.43		525.00	1143604.00	15	30480.00
11/30/10 9:18	57,600	4,200	323	1662	238	15	36	64.8	21.51		0.59	9161.49	0.08	1268.51		540.00	1144144.00	15	30495.00
11/30/10 9:33	118,400	8,700	669	1660	238	14	36	64.8	21.51		1.21	9162.71	0.17	1268.68		540.00	1144684.00	15	30510.00
11/30/10 9:48	27,200	2,100	162	1662	238	15	36	64.8	23.66		0.29	9163.00	0.04	1268.72		540.00	1145224.00	15	30525.00
11/30/10 10:02	100,800	7,400	569	1646	238	13	36	64.8	19.36		0.96	9163.97	0.13	1268.86		504.00	1145728.00	14	30539.00
11/30/10 10:0																			

**Table A-1  
ICE-Recorded (and Adjusted) Data  
Cell 1 IM  
Severstal-Sparrows Point, LLC**

Time Stamp	ICE-Computed BTU/Hr(est)	ICE-Computed PPMV(est)	PPMV(est) "ADJUSTED"	ICE RPM	Well Valve Position	ICE-Calculated Air Flow SCFM	ICE-Calculated Well Flow SCFM	Adjusted Well Flow SCFM	ICE-Measured Well Vac (H2O)		ICE-Calculated Pounds	ICE-Calculated Accumulated Pounds	"Adjusted" Pounds	"Adjusted" Accumulated Pounds		ICE-Calculated Cubic Feet	ICE-Calculated Accumulated Cubic Feet	ICE Operational minutes	ICE Accumulated minutes
11/30/10 11:22	195,200	59,100	4,546	1654	238	21	27	48.6	17.21		6.19	9190.36	0.86	1272.51		405.00	1146922.00	15	30600.00
11/30/10 11:37	329,600	65,100	5,008	1654	238	20	30	54	17.21		7.57	9197.93	1.05	1273.56		450.00	1147372.00	15	30615.00
11/30/10 11:52	16,000	68,900	5,300	1646	238	20	32	57.6	15.06		8.55	9206.48	1.18	1274.74		480.00	1147852.00	15	30630.00
11/30/10 12:07	83,200	72,200	5,554	1660	238	21	32	57.6	19.36		8.96	9215.44	1.24	1275.98		480.00	1148332.00	15	30645.00
11/30/10 12:22	179,200	82,700	6,362	1639	238	21	31	55.8	17.21		9.94	9225.38	1.38	1277.36		465.00	1148797.00	15	30660.00
11/30/10 12:37	94,400	80,500	6,192	1663	238	22	30	54	15.06		9.36	9234.74	1.30	1278.66		450.00	1149247.00	15	30675.00
11/30/10 12:52	336,000	72,900	5,608	1671	238	21	29	52.2	15.06		8.20	9242.94	1.14	1279.79		435.00	1149682.00	15	30690.00
11/30/10 13:06	9,600	70,600	5,431	1665	238	20	32	57.6	15.06		8.18	9251.12	1.13	1280.92		448.00	1150130.00	14	30704.00
11/30/10 13:21	124,800	77,900	5,992	1657	238	20	32	57.6	15.06		9.67	9260.78	1.34	1282.26		480.00	1150610.00	15	30719.00
11/30/10 13:36	94,400	77,800	5,985	1643	238	21	31	55.8	15.06		9.35	9270.13	1.29	1283.56		465.00	1151075.00	15	30734.00
11/30/10 13:51	54,400	74,400	5,723	1673	238	21	31	55.8	15.06		8.94	9279.08	1.24	1284.80		465.00	1151540.00	15	30749.00
11/30/10 14:06	307,200	61,100	4,700	1670	238	21	30	54	17.21		7.11	9286.19	0.98	1285.78		450.00	1151990.00	15	30764.00
11/30/10 14:21	371,200	66,600	5,123	1636	238	19	31	55.8	19.36		8.01	9294.19	1.11	1286.89		465.00	1152455.00	15	30779.00
11/30/10 14:36	224,000	57,700	4,438	1661	238	20	29	52.2	19.36		6.49	9300.68	0.90	1287.79		435.00	1152890.00	15	30794.00
11/30/10 14:51	121,600	77,700	5,977	1662	238	21	31	55.8	15.06		9.34	9310.02	1.29	1289.08		465.00	1153355.00	15	30809.00
11/30/10 15:06	40,000	70,900	5,454	1642	238	20	32	57.6	17.21		8.80	9318.82	1.22	1290.30		480.00	1153835.00	15	30824.00
11/30/10 15:21	176,000	82,200	6,323	1656	238	20	32	57.6	17.21		10.20	9329.01	1.41	1291.71		480.00	1154315.00	15	30839.00
11/30/10 15:36	75,200	71,600	5,508	1652	238	19	34	61.2	17.21		9.44	9338.45	1.31	1293.02		510.00	1154825.00	15	30854.00
11/30/10 15:51	179,200	82,500	6,346	1649	238	21	33	59.4	15.06		10.56	9349.01	1.46	1294.48		495.00	1155320.00	15	30869.00
11/30/10 16:06	408,000	69,600	5,354	1652	238	20	31	55.8	19.36		8.37	9357.38	1.16	1295.64		465.00	1155785.00	15	30884.00
11/30/10 16:21	336,000	65,700	5,054	1681	238	20	31	55.8	17.21		7.90	9365.27	1.09	1296.73		465.00	1156250.00	15	30899.00
11/30/10 16:36	408,000	67,400	5,185	1639	238	20	31	55.8	17.21		8.10	9373.38	1.12	1297.85		465.00	1156715.00	15	30914.00
11/30/10 16:51	318,400	30,000	2,308	1653	238	20	28	50.4	17.21		3.26	9376.63	0.45	1298.30		420.00	1157135.00	15	30929.00
11/30/10 17:06	179,200	81,300	6,254	1657	238	21	32	57.6	17.21		10.09	9386.72	1.40	1299.70		480.00	1157615.00	15	30944.00
11/30/10 17:21	128,000	73,500	5,654	1653	238	20	34	61.2	15.06		9.69	9396.41	1.34	1301.04		510.00	1158125.00	15	30959.00
11/30/10 17:36	38,400	68,700	5,285	1659	238	19	33	59.4	17.21		8.79	9405.20	1.22	1302.26		495.00	1158620.00	15	30974.00
11/30/10 17:51	51,200	69,600	5,354	1670	238	20	33	59.4	17.21		8.91	9414.11	1.23	1303.49		495.00	1159115.00	15	30989.00
11/30/10 18:06	94,400	73,200	5,631	1642	238	20	33	59.4	17.21		9.37	9423.47	1.30	1304.79		495.00	1159610.00	15	31004.00
11/30/10 18:21	76,800	69,600	5,354	1666	238	19	35	63	17.21		9.45	9432.92	1.31	1306.10		525.00	1160135.00	15	31019.00
11/30/10 18:36	25,600	65,700	5,054	1670	238	19	32	57.6	21.51		8.15	9441.07	1.13	1307.23		480.00	1160615.00	15	31034.00
11/30/10 18:51	105,600	71,900	5,531	1651	238	18	34	61.2	17.21		9.48	9450.55	1.31	1308.54		510.00	1161125.00	15	31049.00
11/30/10 19:06	369,600	62,400	4,800	1657	238	18	33	59.4	17.21		7.98	9458.53	1.11	1309.64		495.00	1161620.00	15	31064.00
11/30/10 19:21	147,200	77,300	5,946	1664	238	20	33	59.4	17.21		9.89	9468.42	1.37	1311.01		495.00	1162115.00	15	31079.00
11/30/10 19:36	315,200	56,300	4,331	1648	238	18	34	61.2	19.36		7.42	9475.85	1.03	1312.04		510.00	1162625.00	15	31094.00
11/30/10 19:51	145,600	79,600	6,123	1676	238	22	33	59.4	15.06		10.19	9486.03	1.41	1313.45		495.00	1163120.00	15	31109.00
11/30/10 20:05	19,200	69,200	5,323	1651	238	23	32	57.6	15.06		8.01	9494.05	1.11	1314.56		448.00	1163568.00	14	31123.00
11/30/10 20:20	88,000	74,900	5,762	1669	238	21	33	59.4	15.06		9.58	9503.63	1.33	1315.89		495.00	1164063.00	15	31138.00
11/30/10 20:35	76,800	74,000	5,692	1640	238	21	32	57.6	15.06		9.18	9512.81	1.27	1317.16		480.00	1164543.00	15	31153.00
11/30/10 20:50	32,000	72,500	5,577	1676	238	22	31	55.8	15.06		8.71	9521.53	1.21	1318.37		465.00	1165008.00	15	31168.00
11/30/10 21:05	350,400	71,700	5,515	1657	238	22	28	50.4	17.21		7.78	9529.31	1.08	1319.44		420.00	1165428.00	15	31183.00
11/30/10 21:20	19,200	71,400	5,492	1655	238	24	29	52.2	15.06		8.03	9537.34	1.11	1320.55		435.00	1165863.00	15	31198.00
11/30/10 21:35	372,800	73,900	5,685	1655	238	24	29	52.2	15.06		8.31	9545.65	1.15	1321.71		435.00	1166298.00	15	31213.00
11/30/10 21:50	48,000	78,900	6,069	1658	238	24	29	52.2	15.06		8.87	9554.52	1.23	1322.93		435.00	1166733.00	15	31228.00
11/30/10 22:05	406,400	69,500	5,346	1687	238	23	31	55.8	15.06		8.35	9562.88	1.16	1324.09		465.00	1167198.00	15	31243.00
11/30/10 22:20	83,200	79,400	6,108	1646	238	25	28	50.4	15.06		8.62	9571.50	1.19	1325.28		420.00	1167618.00	15	31258.00
11/30/10 22:35	179,200	86,100	6,623	1629	238	23	31	55.8	17.21		10.35	9581.85	1.43	1326.72		465.00	1168083.00	15	31273.00
11/30/10 22:50	161,600	89,400	6,877	1678	238	24	31	55.8	15.06		10.75	9592.59	1.49	1328.20		465.00	1168548.00	15	31288.00
11/30/10 23:05	366,400	76,000	5,846	1657	238	27	26	46.8	15.06		7.66	9600.25	1.06	1329.27		390.00	1168938.00	15	31303.00
11/30/10 23:20	129,600	89,400	6,877	1672	238	25	29	52.2	15.06		10.05	9610.31	1.39	1330.66		435.00	1169373.00	15	31318.00
11/30/10 23:35	46,400	84,600	6,508	1660	238	28	26	46.8	19.36		8.53	9618.83	1.18	1331.84		390.00	1169763.00	15	31333.00
11/30/10 23:50	116,800	88,200	6,785	1658	238	27	26	46.8	17.21		8.89	9627.73	1.23	1333.07		390.00	1170153.00	15	31348.00
12/1/10 0:05	329,600	72,300	5,562	1673	238	26	27	48.6	12.91		7.57	9635.30	1.05	1334.12		405.00	1170558.00	15	31363.00
12/1/10 0:20	152,000	95,100	7,315	1657	238	26	29	52.2	15.06		10.69	9645.99	1.48	1335.60		435.00	1170993.00	15	31378.00
12/1/10 0:35	80,000	91,300	7,023	1645	238	28	26	46.8	12.91		9.20	9655.19	1.27	1336.87		390.00	1171383.00	15	31393.00
12/1/10 0:50	214,400	63,400	4,877	1667	238	27	26	46.8	15.06		6.39	9661.59	0.88	1337.76		390.00	1171773.00	15	31408.00
12/1/10 1:05	364,800	85,300	6,562	1677	238	28	25	45	17.21		8.27	9669.85	1.14	1338.90		375.00	1172148.00	15	31423.00
12/1/10 1:20	398,400	76,200	5,862	1629	238	29	26	46.8	15.06		7.68	9677.54	1.06	1339.97		390.00	1172538.00	15	31438.00
12/1/10 1:35	27,200	89,400	6,877	1669	238	28	23	41.4	12.91		7.97	9685.51	1.10	1341.07		345.00	1172883.00	15	31453.00







**Table A-2d**  
**Summary Comparison of Operating Conditions**  
**November 30, 2010**  
**Cell1 IM Severstal-Sparrows Point, LLC**

SEVERSTAL	DATE: 11/30/10											
				Vacuum								
Date/Time	Open AS Wells:	Open VE points:	$\Delta P$	Static Pressure	Temp.	3-in Dwyer Flow	PID RAW Gas	ICE PID Reading*	Load	Engine Vac	Well Vac	Well Flow*
			(inches H <sub>2</sub> O)	(inches H <sub>2</sub> O)	(deg F)	(SCFM)	(ppm)	(ppm)	(BTU/hr)	(inches Hg)	(inches H <sub>2</sub> O)	(SCFM)
11/30/10 8:27	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5										
11/30/10 8:30	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						22,600	328,000	14.0	21	38
11/30/10 8:56	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.22	5	65	60.6	9,518	14,000				39
11/30/10 9:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						14,900	202,000	14.1	20	37
11/30/10 9:03	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,619	16,600				
11/30/10 9:45	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						86,600	444,000	18.1	10	13
11/30/10 9:52	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.08	1.5	57	37.0					11	20
11/30/10 9:55	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,823	58,700				
11/30/10 9:57	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,437	77,300				
11/30/10 9:59	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,222	66,900				
11/30/10 10:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						80,400	822,000	15.7	13	26
11/30/10 10:04	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.16	3.5	58	52.1	5,557	69,700			16	27
11/30/10 10:08	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5										
11/30/10 10:10	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,099	70,800				
11/30/10 10:24	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,602	79,300				
11/30/10 10:27	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.2	5	63	57.9	6,427	68,700			17	32
11/30/10 10:30	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						75,500	871,000	13.9	17	31
11/30/10 10:33	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,328	58,700				
11/30/10 10:43	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,806	68,100				
11/30/10 10:53	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.2	5	67	57.7	5,291	70,600			17	32
11/30/10 10:57	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,373	77,900				
11/30/10 11:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						75,100	899,100	13.8	17	29
11/30/10 11:15	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,165	79,900				
11/30/10 11:20	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,672	85,000				
11/30/10 11:25	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,520	75,900				
11/30/10 11:30	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						69,400	771,000	13.7	17	30
11/30/10 11:33	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,066	70,300				
11/30/10 11:45	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,842	83,600				
11/30/10 11:55	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,263	63,500				
11/30/10 12:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						66,000	830,000	13.7	17	30
11/30/10 12:10	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.21	5	68	59.1	5,830	78,300			17	32
11/30/10 12:26	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,978	70,800				
11/30/10 12:30	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						65,500	755,000	13.7	18	34
11/30/10 12:32	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,146	80,300				
11/30/10 12:49	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,946	73,100				
11/30/10 12:57	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.21	5	68	59.1	6,799	75,100			17	32
11/30/10 13:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						71,200	838,000	13.8	17	32
11/30/10 13:04	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5										
11/30/10 13:08	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					7,794	83,600				
11/30/10 13:21	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,888	68,400				
11/30/10 13:27	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,521	71,800				
11/30/10 13:30	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						64,600	742,000	13.8	18	32
11/30/10 13:33	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.22	5	68	60.4	6,374	71,100			19	31
11/30/10 13:45	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					5,696	73,200				
11/30/10 13:48	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5					6,640	83,200				
11/30/10 13:53	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5	0.21	4.8	68	59.1	6,742	79,900			18	31
11/30/10 13:59	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5										
11/30/10 14:00	AS-1, AS-2, AS-5	V-1, V-2, V-4, V-5						84,000	990,000	13.7	17	31