



**ENGINEERING
ENVIRONMENTAL
HEALTH & SAFETY**



Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

December 2015

Infinis Energy Services Ltd.

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Retro-Drilling of Gas Wells

Construction Quality Assurance Report

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**Infinis Energy Services Ltd.
Docksway Landfill Site
Retro Drilling of Gas Wells
Construction Quality Assurance Report**

December 2015

**Prepared for
Infinis Energy Services Ltd.**

**Prepared by
Egniol Environmental Ltd.
Tre Felin
Bangor
Gwynedd
LL57 4LH**

Document Review

Version No.	Date of Review	Prepared By	Reviewed By	Approved By
1.0	01.12.2015	Jason Buckley	Richard Furniss	Richard Furniss

1.0 INTRODUCTION

- 1.1** Egniol Environmental Ltd. (Egniol) of Tre Felin, Bangor, Gwynedd have been appointed by Infinis Energy Services Ltd. (Infinis) as Construction Quality Assurance (CQA) Consultants for the Retro-Drilling of gas wells at Docksway Landfill Site.
- 1.2** The appointment required the professional services of Egniol for the provision of a CQA Inspector. The CQA Inspector was required to monitor the progress and report upon completion of the works, with regard to quality assurance and compliance with the approved CQA Plan for the works (Egniol Environmental Ltd.: *Docksway Landfill Site, Retro-Drilling of Gas Wells, Construction Quality Assurance Plan, Version 4.0, October 2015*).
- 1.3** In accordance with this appointment, Egniol have produced this report which covers the retro drilling of gas wells at Docksway Landfill Site.

2.0 LOCATION AND ADDRESS OF SITE

2.1 Site Location

Docksways Landfill Site is located approximately 1 mile south of the town of Newport, Gwent, South Wales.

2.2 Site Address

Docksway Landfill Site,
Maesglas,
Newports,
Gwent,
NP20 2NS

3.0 BRIEF DESCRIPTION AND TIMING OF WORKS

3.1 Description of Works

In accordance with the approved CQA Plan (Egniol Environmental Ltd.: Docksway Landfill Site, Retro-Drilling of Gas Wells, Construction Quality Assurance Plan, Version 4.0, October 2015), 8no. landfill gas extraction wells were to be installed into areas of uncapped waste at Docksway Landfill Site by means of Retro-Drilling. The works commenced on 2nd November 2015 and were completed on 6th November 2015.

The proposed locations were supplied by Infinis prior to the Works commencing. These locations were surveyed and marked with the erection of a wooden peg. Each peg was labelled with its own identification number.

Table 1 – Location and Drill Depth Information

CQA Plan Well ID	Installed Well ID	Eastings	Northings	Proposed Drill Depth (mBGL)	Actual Drill Depth (mBGL)	Theoretical Stone Installation Volume (m ³)	Actual Stone Installation Volume (m ³)
1501	DWYW1601	330879.234	184843.153	13.5	13.5	1.027	1.03
1502	DWYW1602	330942.206	184811.537	15.0	15.0	1.142	1.14
1503	DWYW1603	330891.480	184877.262	14.5	14.5	1.104	1.10
1504	DWYW1604	330925.659	184867.680	16.0	16.0	1.218	1.22
1505	DWYW1605	330972.268	184883.254	14.5	14.5	1.104	1.10
1506	DWYW1606	330859.861	184867.939	13.0	13.0	1.989	1.99
1507	DWYW1607	330910.956	184827.397	14.5	14.5	1.104	1.10
1508	DWYW1608	330962.441	184849.640	16.0	16.0	1.218	1.22

Location information supplied by Infinis Energy Services via email dated 26/11/15. Drawing reference 6371_GI02 – Docksway Landfill Site, Gas Infrastructure Plan (November 2015).

It was discovered that the proposed well references were already occupied by existing gas well on site. Infinis informed Egniol that the first two digits of the gas well references were to be altered to accommodate the new reference IDs, as shown in Table 1 above.

4.0 CONSTRUCTION QUALITY ASSURANCE

4.1 Specification

All pipework lengths were connected using butt-fusion welding techniques within the site compound to the required length for each well as stated in the CQA Plan.

The pipework installed consisted of 160mm diameter HDPE pipe with a solid upper section and a lower perforated section. The upper section of solid pipework had a minimum of 5.0m installed below ground level and 1.0m above ground level. The base of the perforated pipework was fitted with a solid welded end cap. The solid pipework was fitted with a gas well headwork following completion of the installation, prior to connection to the landfill gas extraction system.

The annulus between the HDPE pipe and waste was backfilled with 20-40mm non-calcareous stone to a minimum depth of 4.0m below ground level. The remaining annulus was sealed using a hydrated bentonite seal to ground level.

All pipework was measured by the CQA Inspector to verify the length of solid and perforated pipe prior to being installed within the borehole.

4.2 Gas Well Details

The following gas wells are presented in the order that they were drilled.

Gas Well 1601

Gas Well 1601 was drilled to the target depth of 13.5m. Pipework was installed to a depth of 13.5m Below Ground Level (BGL) and consisted of 8.5m perforated casing and 6.0m solid casing (including 1.0m Above Ground Level (AGL)). Gravel was installed to a depth of 4.0m BGL; approximately 1.03m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1602

Gas Well 1602 was drilled to the target depth of 15.0m. Pipework was installed to a depth of 15.0m BGL and consisted of 10.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.14m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1603

Gas Well 1603 was drilled to the target depth of 15.5m. Pipework was installed to a depth of 14.5m BGL and consisted of 9.5m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.10m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1604

Gas Well 1604 was drilled to the target depth of 16.0m. Pipework was installed to a depth of 16.0m BGL, and consisted of 11.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.22m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1605

Gas Well 1605 was drilled to the target depth of 14.5m. Pipework was installed to a depth of 14.5m BGL and consisted of 9.5m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.10m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1606

Gas Well 1606 was drilled to the target depth of 13.0m. Pipework was installed to a depth of 13.0m BGL and consisted of 8.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.99m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1607

Gas Well 1607 was drilled to the target depth of 14.5m. Pipework was installed to a depth of 14.5m BGL and consisted of 9.5m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.10m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

Gas Well 1608

Gas Well 1608 was drilled to the target depth of 16.0m. Pipework was installed to a depth of 16.0m BGL and consisted of 11.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 4.0m BGL; approximately 1.22m³ was installed.

The remaining portion of the annulus was backfilled with a hydrated bentonite seal to ground level.

4.3 Contract Particulars

During the drilling of the gas extraction wells the verticality of the borehole was regularly checked at approximately 5.0m intervals.

When moving the drilling rig between locations, it was ensured that the route had been walked to establish the most suitable access route and to check for services or penetrations along the way. The area of drilling was also cleared of any obstruction that could prevent the drilling rig from carrying out the Works.

All waste arisings excavated as a result of the drilling works were disposed of to the active tip face of site. Details of the waste arisings can be found in the CQA Inspectors drilling logs enclosed in Appendix 2 of this CQA Report.

5.0 ISSUES ENCOUNTERED

- 5.1** Gas Well references 1501 – 1508 were altered to 1601 – 1608 upon realisation that duplicate well references were already in use on site.
- 5.2** No further issues were encountered during the works.

6.0 CONCLUSIONS

- 6.1** From the observations and measurements made by the CQA Inspector, to the best of our knowledge, 8no. gas extraction wells were installed at Docksway Landfill Site to a satisfactory standard and in accordance with the previously approved CQA Plan.

Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

1. CQA Inspectors Daily Reports

CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

Date	Monday 2nd November 2015										
Weather	<table border="0"> <tr> <td>Previous Night</td> <td>N/A</td> </tr> <tr> <td>a.m</td> <td>Fog</td> </tr> <tr> <td>p.m</td> <td>Overcast/Rain</td> </tr> </table>	Previous Night	N/A	a.m	Fog	p.m	Overcast/Rain				
Previous Night	N/A										
a.m	Fog										
p.m	Overcast/Rain										
<table border="0"> <tr> <td>Site Hours:</td> <td>07:00 - 17:00</td> </tr> <tr> <td>Contractors Arrival Time:</td> <td>15:00</td> </tr> <tr> <td>CQA Arrival Time:</td> <td>09:00</td> </tr> <tr> <td>Contractors Departure Time:</td> <td>17:00</td> </tr> <tr> <td>CQA Departure Time:</td> <td>17:00</td> </tr> </table>	Site Hours:	07:00 - 17:00	Contractors Arrival Time:	15:00	CQA Arrival Time:	09:00	Contractors Departure Time:	17:00	CQA Departure Time:	17:00	
Site Hours:	07:00 - 17:00										
Contractors Arrival Time:	15:00										
CQA Arrival Time:	09:00										
Contractors Departure Time:	17:00										
CQA Departure Time:	17:00										
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling</u> Comacchio MC 3000 Drilling Rig Manitou 732 Telehandler Terex TA6 Dumper Endura Maxx De Odourizer. 2 x Drilling Crew										
Contract Works Undertaken	<u>Magpie Environmental Drilling.</u> No Drilling Today Drilling rig arriving on site at 07.00 3/11/2015										
Testing Undertaken	Joint Numbers taken down										
Meetings/ Correspondence	Inductions with Infinis and Newport CC. Walk over the drill position and discuss the upcoming drilling works.										
Health and Safety	No Issues										
Visitors to Site	George Augood (Infinis)										
Comments	All Pipes made up. Yellow caps to be taped on the bottom of the wells and back caps to be fitted with a jubilee clip on the top of the well.										

For Egniol Environmental Ltd: Stuart Darbyshire

CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

Date	Tuesday 3rd November 2015						
Weather	<table border="1"> <tr> <td>Previous Night</td> <td>Rain</td> </tr> <tr> <td>a.m</td> <td>Mist / Fog</td> </tr> <tr> <td>p.m</td> <td>Overcast/Rain</td> </tr> </table>	Previous Night	Rain	a.m	Mist / Fog	p.m	Overcast/Rain
Previous Night	Rain						
a.m	Mist / Fog						
p.m	Overcast/Rain						
Site Hours:	07:00 - 17:00						
Contractors Arrival Time:	07:00						
CQA Arrival Time:	07:00						
Contractors Departure Time:	17:00						
CQA Departure Time:	17:00						
Contractors Plant / Resources Utilised	<p><u>Magpie Environmental Drilling</u> Comacchio MC 3000 Drilling Rig Manitou 732 Telehandler Terex TA6 Dumper Endura Maxx De Odourizer. 2 x Drilling Crew</p>						
Contract Works Undertaken	<p><u>Magpie Environmental Drilling</u></p> <p><u>Gas Well 1606</u> 08.00hrs MDL - Positioned the drilling at gas well 1606 08.15hrs MDL Started the drilling of gas well 1606 to a target depth of 13.0mBGL. 09:30hrs - Borehole completed to 13.0mBGL 160mm pipe installed to a depth of 13.0mBGL. 20/40 Gravel installed into the annulus. 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip. All Information wrote onto the newly installed gas well.</p> <p><u>Gas Well 1603</u> 09.40hrs MDL - Positioned the drilling at gas well 1603 09.45hrs MDL Started the drilling of gas well 1603 to a target depth of 14.5mBGL. 12:00hrs - Borehole completed to 14.5mBGL 160mm pipe installed to a depth of 14.5mBGL. 20/40 Gravel installed into the annulus. 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip. All Information wrote onto the newly installed gas well.</p> <p><u>Gas Well 1601</u> 12.10hrs MDL - Positioned the drilling at gas well 1601 12.15hrs MDL Started the drilling of gas well 1601 to a target depth of 13.5mBGL. 14:30hrs - Borehole completed to 13.5mBGL 160mm pipe installed to a depth of 13.5mBGL. 20/40 Gravel installed into the annulus. 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted.</p>						

For Egniol Environmental Ltd: Stuart Darbyshire

CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

	<p>All Information wrote onto the newly installed gas well.</p> <p>Gas Well 1604 14.30hrs MDL - Positioned the drilling at gas well 1604 14.35hrs MDL Started the drilling of gas well 1604 to a target depth of 13.5mBGL. 16:30hrs - Borehole completed to 16.0mBGL 160mm pipe installed to a depth of 16.0mBGL. 20/40 Gravel installed into the annulus. 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted. All Information wrote onto the newly installed gas well.</p> <p>All waste arisings were placed in the dumper and transported to the active tip face.</p>
Testing Undertaken	<p>Vertical checks to drilling rig. Photos taken of works. Borehole checked 5m from target depth Pipework Installation 20/40 Gravel Pack installed Hydrated Bentonite Seal Installed Plastic end cap fitted and taped.</p>
Meetings/ Correspondence	
Health and Safety	No Issues
Visitors to Site	George Augood (Infinis)
Comments	

For Egniol Environmental Ltd: Stuart Darbyshire

CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

Date	Wednesday 4th November 2015						
Weather	<table border="1"> <tr> <td>Previous Night</td> <td>Rain</td> </tr> <tr> <td>a.m</td> <td>Rain / Overcast</td> </tr> <tr> <td>p.m</td> <td>Overcast/Rain</td> </tr> </table>	Previous Night	Rain	a.m	Rain / Overcast	p.m	Overcast/Rain
Previous Night	Rain						
a.m	Rain / Overcast						
p.m	Overcast/Rain						
Site Hours:	07:00 - 17:00						
Contractors Arrival Time:	07:00						
CQA Arrival Time:	07:00						
Contractors Departure Time:	17:00						
CQA Departure Time:	17:00						
Contractors Plant / Resources Utilised	<p><u>Magpie Environmental Drilling</u> Comacchio MC 3000 Drilling Rig Manitou 732 Telehandler Terex TA6 Dumper Endura Maxx De Odourizer. 2 x Drilling Crew</p>						
Contract Works Undertaken	<p><u>Magpie Environmental Drilling</u></p> <p><u>Gas Well 1607</u> 08.00hrs MDL - Positioned the drilling at gas well 1607 08.15hrs MDL Started the drilling of gas well 1607 to a target depth of 14.5mBGL. 09:30hrs - Borehole completed to 14.5mBGL 160mm pipe installed to a depth of 14.5mBGL. 20/40 Gravel installed into the annulus 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip. All Information wrote onto the newly installed gas well.</p> <p><u>Gas Well 1602</u> 12.40hrs MDL - Positioned the drilling at gas well 1607 12.45hrs MDL Started the drilling of gas well 1607 to a target depth of 15.0mBGL. 12:00hrs - Borehole completed to 15.0mBGL 160mm pipe installed to a depth of 15.0mBGL. 20/40 Gravel installed into the annulus 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip. All Information wrote onto the newly installed gas well.</p> <p><u>Gas Well 1608</u> 12.10hrs MDL - Positioned the drilling at gas well 1601 12.15hrs MDL Started the drilling of gas well 1601 to a target depth of 13.5mBGL. 14:30hrs - Borehole completed to 13.5mBGL 160mm pipe installed to a depth of 13.5mBGL. 20/40 Gravel installed into the annulus 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip.</p>						

For Egniol Environmental Ltd: Stuart Darbyshire



CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

	<p>All Information wrote onto the newly installed gas well.</p> <p>All waste arisings were placed in the dumper and transported to the active tip face.</p>
Testing Undertaken	<p>Vertical checks to drilling rig. Photos taken of works. Borehole checked 5m from target depth Pipework Installation 20/40 Gravel Pack installed Hydrated Bentonite Seal Installed Plastic end cap fitted and taped Dipped the wells 24hrs after Installation.</p>
Meetings/ Correspondence	
Health and Safety	No Issues
Visitors to Site	<p>George Augood (Infinis) Johno (Magpie Fitter)</p>
Comments	Magpie Fitter came out to resolve a tracking problem.

For Egniol Environmental Ltd: Stuart Darbyshire

CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

Date	Thursday 5th November 2015						
Weather	<table border="1"> <tr> <td>Previous Night</td> <td>Rain</td> </tr> <tr> <td>a.m</td> <td>Overcast</td> </tr> <tr> <td>p.m</td> <td>Overcast</td> </tr> </table>	Previous Night	Rain	a.m	Overcast	p.m	Overcast
Previous Night	Rain						
a.m	Overcast						
p.m	Overcast						
Site Hours:	07:00 - 17:00						
Contractors Arrival Time:	07:00						
CQA Arrival Time:	07:00						
Contractors Departure Time:	12:00						
CQA Departure Time:	12:00						
Contractors Plant / Resources Utilised	<p>Magpie Environmental Drilling Comacchio MC 3000 Drilling Rig Manitou 732 Telehandler Terex TA6 Dumper Endura Maxx De Odourizer. 2 x Drilling Crew</p>						
Contract Works Undertaken	<p>Magpie Environmental Drilling Gas Well 1605 08.30hrs MDL - Positioned the drilling at gas well 1605 08.35hrs MDL Started the drilling of gas well 1605 to a target depth of 14.5mBGL. 10:30hrs - Borehole completed to 14.5mBGL 160mm pipe installed to a depth of 14.5mBGL. 20/40 Gravel installed into the annulus. 4.0m Hydrated bentonite seal backfilled to ground level. Plastic cap fitted with jubilee clip. All Information wrote onto the newly installed gas well.</p> <p>All waste arisings were placed in the dumper and transported to the active tip face.</p>						
Testing Undertaken	<p>Vertical checks to drilling rig. Photos taken of works. Borehole checked 5m from target depth Pipework Installation 20/40 Gravel Pack installed Hydrated Bentonite Seal Installed Plastic end cap fitted and taped Dipped the wells 24hrs after Installation.</p>						
Meetings/ Correspondence							
Health and Safety	No Issues						
Visitors to Site							
Comments							

For Egniol Environmental Ltd: Stuart Darbyshire



CQA Inspector's Daily Report

Site Name: Docksway LFS
Project: Retro Drilling of Gas Wells

Date	Friday 6th November 2015	
Weather	Previous Night	Rain
	a.m	Overcast
	p.m	Overcast
Site Hours:	07:00 - 17:00	
Contractors Arrival Time:	N/A	
CQA Arrival Time:	07:00	
Contractors Departure Time:	N/A	
CQA Departure Time:	10:00	
Contractors Plant / Resources Utilised		
Contract Works Undertaken		
Testing Undertaken	Dipped the wells 24hrs after Installation.	
Meetings/ Correspondence		
Health and Safety	No Issues	
Visitors to Site		
Comments		

For Egniol Environmental Ltd: Stuart Darbyshire

Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

2. CQA Inspectors Drilling Logs

DRILLING REPORT					Well Number: Well 1601	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 03.11.2015		Installation Details			Target Depth (m): 13.50	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 13.50		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 8.50		Dip Level (mBGL) after 24hrs: 9.62		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 9.50				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 76
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 77
11.0	12.0	1	12	Dry Consolidated Waste	11.5	
12.0	13.0	1	13	Dry Consolidated Waste	12.5	
13.0	14.0	1	14	Dry Consolidated Waste	13.5	
14.0	15.0	1	15	Completed at 13.5mBGL	14.5	
15.0	16.0	1	16		15.5	
16.0	17.0	1	17		16.5	
17.0	18.0	1	18		17.5	
18.0	19.0	1	19		18.5	
19.0	20.0	1	20		19.5	
20.0	21.0	1	21		20.5	
21.0	22.0	1	22		21.5	
22.0	23.0	1	23		22.5	
23.0	24.0	1	24		23.5	
24.0	25.0	1	25		24.5	
25.0	26.0	1	26		25.5	
26.0	27.0	1	27		26.5	
27.0	28.0	1	28		27.5	
28.0	29.0	1	29		28.5	
29.0	30.0	1	30		29.5	
30.0	31.0	1	31		30.5	
31.0	32↓	1	31		31.5	

DRILLING REPORT					Well Number: Well 1603	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 03.11.2015		Installation Details			Target Depth (m): 14.50	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 14.50		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 9.50		Dip Level (mBGL) after 24hrs: 8.61		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 10.50				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1			
0.0	0.0	0	0			
0.0	1.0	1	1	Dry Consolidated Waste	GL	GL
1.0	2.0	1	2	Dry Consolidated Waste	Dry Waste	
2.0	3.0	1	3	Dry Consolidated Waste		Hydrated Bentonite
3.0	4.0	1	4	Dry Consolidated Waste		
4.0	5.0	1	5	Dry Consolidated Waste		J.N 78
5.0	6.0	1	6	Dry Consolidated Waste		
6.0	7.0	1	7	Dry Consolidated Waste		
7.0	8.0	1	8	Dry Consolidated Waste		20/40 Gravel
8.0	9.0	1	9	Dry Consolidated Waste		
9.0	10.0	1	10	Dry Consolidated Waste		J.N 79
10.0	11.0	1	11	Dry Consolidated Waste		
11.0	12.0	1	12	Dry Consolidated Waste		
12.0	13.0	1	13	Damp Consolidated Waste	Damp Waste	
13.0	14.0	1	14	Damp Consolidated Waste		
14.0	15.0	1	15	Damp Consolidated Waste		
15.0	16.0	1	16	Damp Consolidated Waste		
16.0	17.0	1	17	Damp Consolidated Waste		
17.0	18.0	1	18	Damp Consolidated Waste		
18.0	19.0	1	19	Damp Consolidated Waste		
19.0	20.0	1	20	Damp Consolidated Waste		
20.0	21.0	1	21	Damp Consolidated Waste		
21.0	22.0	1	22	Damp Consolidated Waste		
22.0	23.0	1	23	Damp Consolidated Waste		
23.0	24.0	1	24	Damp Consolidated Waste		
24.0	25.0	1	25	Damp Consolidated Waste		
25.0	26.0	1	26	Damp Consolidated Waste		
26.0	27.0	1	27	Damp Consolidated Waste		
27.0	28.0	1	28	Damp Consolidated Waste		
28.0	29.0	1	29	Damp Consolidated Waste		
29.0	30.0	1	30	Damp Consolidated Waste		
30.0	31.0	1	31	Damp Consolidated Waste		
31.0	32↓	1	31	Completed at 14.5mBGL		

DRILLING REPORT					Well Number: Well 1604	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 03.11.2015		Installation Details			Target Depth (m): 16.00	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 16.00		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 11.00		Dip Level (mBGL) after 24hrs: 8.61		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 12.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 80
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 141
11.0	12.0	1	12	Dry Consolidated Waste	11.5	
12.0	13.0	1	13	Dry Consolidated Waste	12.5	
13.0	14.0	1	14	Dry Consolidated Waste	13.5	
14.0	15.0	1	15	Damp Consolidated Waste	14.5	Damp Waste
15.0	16.0	1	16	Damp Consolidated Waste	15.5	
16.0	17.0	1	16	Damp Consolidated Waste	16.5	
17.0	18.0	1	17	Completed at 16.0mBGL	17.5	
18.0	19.0	1	18		18.5	
19.0	20.0	1	19		19.5	
20.0	21.0	1	20		20.5	
21.0	22.0	1	21		21.5	
22.0	23.0	1	22		22.5	
23.0	24.0	1	23		23.5	
24.0	25.0	1	24		24.5	
25.0	26.0	1	25		25.5	
26.0	27.0	1	26		26.5	
27.0	28.0	1	27		27.5	
28.0	29.0	1	28		28.5	
29.0	30.0	1	29		29.5	
30.0	31.0	1	30		30.5	
31.0	32↓	1	31		31.5	

DRILLING REPORT					Well Number: Well 1606	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 03.11.2015		Installation Details			Target Depth (m): 13.00	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 13.00		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 8.00		Dip Level (mBGL) after 24hrs: 8.72		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 9.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 144
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 145
11.0	12.0	1	12	Damp Consolidated Waste	11.5	Damp Waste
12.0	13.0	1	13	Damp Consolidated Waste	12.5	
13.0	14.0	1	14	Damp Consolidated Waste	13.5	
14.0	15.0	1	15	Completed at 13.0mBGL	14.5	
15.0	16.0	1	16		15.5	
16.0	17.0	1	17		16.5	
17.0	18.0	1	18		17.5	
18.0	19.0	1	19		18.5	
19.0	20.0	1	20		19.5	
20.0	21.0	1	21		20.5	
21.0	22.0	1	22		21.5	
22.0	23.0	1	23		22.5	
23.0	24.0	1	24		23.5	
24.0	25.0	1	25		24.5	
25.0	26.0	1	26		25.5	
26.0	27.0	1	27		26.5	
27.0	28.0	1	28		27.5	
28.0	29.0	1	29		28.5	
29.0	30.0	1	30		29.5	
30.0	31.0	1	31		30.5	
31.0	32↓	1	31		31.5	

DRILLING REPORT					Well Number: Well 1602	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 04.11.2015		Installation Details			Target Depth (m): 15.00	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 15.00		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 10.00		Dip Level (mBGL) after 24hrs: 9.62		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 11.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 142
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 143
11.0	12.0	1	12	Dry Consolidated Waste	11.5	
12.0	13.0	1	13	Dry Consolidated Waste	12.5	
13.0	14.0	1	14	Damp Consolidated Waste	13.5	Damp Waste
14.0	15.0	1	15	Damp Consolidated Waste	14.5	
15.0	16.0	1	16	Damp Consolidated Waste	15.5	
16.0	17.0	1	17	Completed at 15.0mBGL	16.5	
17.0	18.0	1	18		17.5	
18.0	19.0	1	19		18.5	
19.0	20.0	1	20		19.5	
20.0	21.0	1	21		20.5	
21.0	22.0	1	22		21.5	
22.0	23.0	1	23		22.5	
23.0	24.0	1	24		23.5	
24.0	25.0	1	25		24.5	
25.0	26.0	1	26		25.5	
26.0	27.0	1	27		26.5	
27.0	28.0	1	28		27.5	
28.0	29.0	1	29		28.5	
29.0	30.0	1	30		29.5	
30.0	31.0	1	31		30.5	
31.0	32↓	1	31		31.5	

DRILLING REPORT					Well Number: Well 1607	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 04.11.2015		Installation Details			Target Depth (m): 14.50	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 14.50		
Extruder Dimensions:		Solid BGL (m):		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m):		Dip Level (mBGL) after 24hrs: 8.24		
Casing Dimensions:		Bentonite (m):		HDPE Casing Dimensions: 160mm		
		Gravel (m):				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste		Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	0.5	
2.0	3.0	1	3	Dry Consolidated Waste	1.5	
3.0	4.0	1	4	Dry Consolidated Waste	2.5	
4.0	5.0	1	5	Dry Consolidated Waste	3.5	
5.0	6.0	1	6	Dry Consolidated Waste	4.5	
6.0	7.0	1	7	Dry Consolidated Waste	5.5	
7.0	8.0	1	8	Dry Consolidated Waste	6.5	
8.0	9.0	1	9	Dry Consolidated Waste	7.5	
9.0	10.0	1	10	Dry Consolidated Waste	8.5	
10.0	11.0	1	11	Dry Consolidated Waste	9.5	
11.0	12.0	1	12	Dry Consolidated Waste	10.5	
12.0	13.0	1	13	Dry Consolidated Waste	11.5	
13.0	14.0	1	14	Damp Consolidated Waste	12.5	
14.0	15.0	1	15	Damp Consolidated Waste	13.5	
15.0	16.0	1	16	Completed at 14.5mBGL	14.5	
16.0	17.0	1	17		15.5	
17.0	18.0	1	18		16.5	
18.0	19.0	1	19		17.5	
19.0	20.0	1	20		18.5	
20.0	21.0	1	21		19.5	
21.0	22.0	1	22		20.5	
22.0	23.0	1	23		21.5	
23.0	24.0	1	24		22.5	
24.0	25.0	1	25		23.5	
25.0	26.0	1	26		24.5	
26.0	27.0	1	27		25.5	
27.0	28.0	1	28		26.5	
28.0	29.0	1	29		27.5	
29.0	30.0	1	30		28.5	
30.0	31.0	1	31		29.5	
31.0	32↓	1	31		30.5	
					31.5	

DRILLING REPORT					Well Number: Well 1608	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 04.11.2015		Installation Details			Target Depth (m): 16.00	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 16.00		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 11.00		Dip Level (mBGL) after 24hrs: 12.19		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 12.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 149
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 150
11.0	12.0	1	12	Dry Consolidated Waste	11.5	
12.0	13.0	1	13	Dry Consolidated Waste	12.5	
13.0	14.0	1	14	Dry Consolidated Waste	13.5	
14.0	15.0	1	15	Damp Consolidated Waste	14.5	Damp Waste
15.0	16.0	1	16	Damp Consolidated Waste	15.5	
16.0	17.0	1	16	Damp Consolidated Waste	16.5	
17.0	18.0	1	17	Completed at 16.0mBGL	17.5	
18.0	19.0	1	18		18.5	
19.0	20.0	1	19		19.5	
20.0	21.0	1	20		20.5	
21.0	22.0	1	21		21.5	
22.0	23.0	1	22		22.5	
23.0	24.0	1	23		23.5	
24.0	25.0	1	24		24.5	
25.0	26.0	1	25		25.5	
26.0	27.0	1	26		26.5	
27.0	28.0	1	27		27.5	
28.0	29.0	1	28		28.5	
29.0	30.0	1	29		29.5	
30.0	31.0	1	30		30.5	
31.0	32↓	1	31		31.5	

DRILLING REPORT					Well Number: Well 1605	
CQA INSPECTOR:- Stuart Darbyshire						
CLIENT: Infinis Energy Services					Site: Docksway Landfill Site	
Date: 05.11.2015		Installation Details			Target Depth (m): 14.50	
Drilling Rig type: Commachio MC3000		Solid AGL (m):		Actual Depth (m): 14.50		
Extruder Dimensions:		Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm		Perforated BGL (m): 9.50		Dip Level (mBGL) after 24hrs: 12.19		
Casing Dimensions:		Bentonite (m): 4.00		HDPE Casing Dimensions: 160mm		
		Gravel (m): 10.50				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION		STRATA	
			m		m	
	+1.0	1	+1		+0.5	
0.0	0.0	0	0			GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste
1.0	2.0	1	2	Dry Consolidated Waste	1.5	
2.0	3.0	1	3	Dry Consolidated Waste	2.5	
3.0	4.0	1	4	Dry Consolidated Waste	3.5	
4.0	5.0	1	5	Dry Consolidated Waste	4.5	Hydrated Bentonite
5.0	6.0	1	6	Dry Consolidated Waste	5.5	J.N 74
6.0	7.0	1	7	Dry Consolidated Waste	6.5	
7.0	8.0	1	8	Dry Consolidated Waste	7.5	
8.0	9.0	1	9	Dry Consolidated Waste	8.5	20/40 Gravel
9.0	10.0	1	10	Dry Consolidated Waste	9.5	
10.0	11.0	1	11	Dry Consolidated Waste	10.5	J.N 75
11.0	12.0	1	12	Dry Consolidated Waste	11.5	
12.0	13.0	1	13	Dry Consolidated Waste	12.5	
13.0	14.0	1	14	Damp Consolidated Waste	13.5	Damp Waste
14.0	15.0	1	15	Damp Consolidated Waste	14.5	
15.0	16.0	1	16	Completed at 14.5mBGL	15.5	
16.0	17.0	1	17		16.5	
17.0	18.0	1	18		17.5	
18.0	19.0	1	19		18.5	
19.0	20.0	1	20		19.5	
20.0	21.0	1	21		20.5	
21.0	22.0	1	22		21.5	
22.0	23.0	1	23		22.5	
23.0	24.0	1	24		23.5	
24.0	25.0	1	25		24.5	
25.0	26.0	1	26		25.5	
26.0	27.0	1	27		26.5	
27.0	28.0	1	28		27.5	
28.0	29.0	1	29		28.5	
29.0	30.0	1	30		29.5	
30.0	31.0	1	31		30.5	
31.0	32↓	1	31		31.5	

Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

3. Butt Fusion Welding Tickets

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 74
Reference 7595914
Created 28/10/2015 12:55:25
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 17.7 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 11.6 (bar)
Dynamic Drag 11.6 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	233.0
Bead Pressure (bar)	[11.63]+17.0	28.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[11.63]+17.0	28.8
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 75
Reference 7595915
Created 28/10/2015 13:08:00
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 18.3 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 13.2 (bar)
Dynamic Drag 13.1 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.0
Bead Pressure (bar)	[13.25]+17.0	30.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[13.12]+17.0	30.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 76
Reference 7595916
Created 28/10/2015 13:20:00
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 19 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 13.1 (bar)
Dynamic Drag 13.1 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[13.12]+17.0	29.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[13.12]+17.0	30.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 77
Reference 7595917
Created 28/10/2015 13:30:58
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 19.7 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 13.5 (bar)
Dynamic Drag 13.5 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.8
Bead Pressure (bar)	[13.5]+17.0	30.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[13.5]+17.0	30.5
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 78
Reference 7595918
Created 28/10/2015 13:42:39
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 20.2 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 14.4 (bar)
Dynamic Drag 14.4 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[14.38]+17.0	31.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[14.38]+17.0	31.2
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 79
Reference 7595919
Created 28/10/2015 13:52:36
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 20.5 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 14.6 (bar)
Dynamic Drag 14.6 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[14.62]+17.0	31.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[14.62]+17.0	31.5
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 80
Reference 7595920
Created 28/10/2015 14:03:49
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY0WELLCASING
Ambient Temp 20.7 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 14.1 (bar)
Dynamic Drag 14.1 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[14.13]+17.0	31.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[14.13]+17.0	31.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 03/11/2015 09:44:30
Uploader mholloway

Joint Identification
Joint Number 81
Reference 7595921
Created 29/10/2015 13:58:04
Operator TD TEST

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR250
Serial Number 0774
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location FHB
Ambient Temp 19.7 °C

Pipe Selected
PE80 250mm SDR 17.6 Yellow

Pipe/Fitting Details

Welding Parameters
Standard Gas (BG)2
Drag Parameters Peak Drag 9.8 (bar)
Dynamic Drag 9.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[9.75]+26.8	36.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	158.0	158.0
Fusion Pressure (bar)	[9.75]+26.8	36.6
Cool Time (s)	474.0	474.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:51
Uploader mholloway

Joint Identification
Joint Number 140
Reference 7632744
Created 28/10/2015 11:44:18
Operator TD TEST

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location FHB
Ambient Temp 20 °C

Pipe Selected
PE80 180mm SDR 17.6 Black+Yellow

Pipe/Fitting Details

Welding Parameters
Standard Gas (BG)2

Drag Parameters Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.7 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.38]+13.9	20.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	134.0	134.0
Fusion Pressure (bar)	[6.38]+13.9	20.2
Cool Time (s)	402.0	402.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 141
Reference 7632745
Created 29/10/2015 08:11:32
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 14.5 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters Peak Drag 8.5 (bar)
Dynamic Drag 8.5 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.5]+17.0	25.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.5]+17.0	25.8
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 142
Reference 7632746
Created 29/10/2015 08:25:10
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 15 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters Peak Drag 8.1 (bar)
Dynamic Drag 8.1 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[8.13]+17.0	24.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.13]+17.0	25.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 143
Reference 7632747
Created 29/10/2015 08:36:22
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 15.8 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 8.1 (bar)
Dynamic Drag 8.1 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.13]+17.0	24.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.13]+17.0	25.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 144
Reference 7632748
Created 29/10/2015 08:47:52
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 16.5 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 8.4 (bar)
Dynamic Drag 8.4 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.37]+17.0	25.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.37]+17.0	25.5
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 145
Reference 7632749
Created 29/10/2015 08:57:09
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 17.3 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.2 (bar)
Dynamic Drag 6.2 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.25]+17.0	22.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[6.25]+17.0	22.9
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 146
Reference 7632750
Created 29/10/2015 09:05:57
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 18 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 9.6 (bar)
Dynamic Drag 9.6 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[9.63]+17.0	26.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[9.63]+17.0	26.6
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:52
Uploader mholloway

Joint Identification
Joint Number 147
Reference 7632751
Created 29/10/2015 09:15:07
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 18.5 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 7.2 (bar)
Dynamic Drag 7.2 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[7.25]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[7.25]+17.0	24.0
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 148
Reference 7632752
Created 29/10/2015 09:23:46
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 18.7 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.0 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6]+17.0	23.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[6]+17.0	22.9
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 149
Reference 7632753
Created 29/10/2015 09:35:06
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 19.5 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 8.2 (bar)
Dynamic Drag 8.2 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[8.25]+17.0	24.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.25]+17.0	25.1
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 150
Reference 7632754
Created 29/10/2015 09:43:53
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAYWELLCASING
Ambient Temp 20.7 °C

Pipe Selected
PE80 160mm SDR 11 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 8.5 (bar)
Dynamic Drag 8.5 (bar)
Dwell Time 1.6 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[8.5]+17.0	24.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	30.0	30.0
Fusion Pressure (bar)	[8.5]+17.0	25.5
Cool Time (s)	230.0	230.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 151
Reference 7632755
Created 29/10/2015 10:11:58
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 22.8 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.5 (bar)
Dynamic Drag 7.5 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[7.5]+5.0	12.4
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.5]+5.0	12.4
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 152
Reference 7632756
Created 29/10/2015 10:19:56
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 23.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.9 (bar)
Dynamic Drag 7.9 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[7.88]+5.0	12.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.88]+5.0	13.1
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 153
Reference 7632757
Created 29/10/2015 10:26:32
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 24.2 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.9 (bar)
Dynamic Drag 6.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6.88]+5.0	11.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.88]+5.0	12.0
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 154
Reference 7632758
Created 29/10/2015 10:33:34
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 25 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.9 (bar)
Dynamic Drag 7.9 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[7.88]+5.0	12.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.88]+5.0	12.9
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 155
Reference 7632759
Created 29/10/2015 10:39:59
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 25.3 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.0 (bar)
Dynamic Drag 7.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[7]+5.0	11.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7]+5.0	12.0
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:53
Uploader mholloway

Joint Identification
Joint Number 156
Reference 7632760
Created 29/10/2015 10:46:56
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 26 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 9.1 (bar)
Dynamic Drag 9.1 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[9.12]+5.0	14.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[9.12]+5.0	14.0
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 157
Reference 7632761
Created 29/10/2015 10:54:14
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 26.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.5 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6.5]+5.0	11.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.5]+5.0	11.6
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 158
Reference 7632762
Created 29/10/2015 11:02:26
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 7.6 (bar)
Dynamic Drag 7.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.63]+5.0	12.4
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.63]+5.0	12.6
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 159
Reference 7632763
Created 29/10/2015 11:10:14
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 8.0 (bar)
Dynamic Drag 8.0 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[8]+5.0	13.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8]+5.0	12.9
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 160
Reference 7632764
Created 29/10/2015 11:18:21
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 7.1 (bar)
Dynamic Drag 7.1 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[7.13]+5.0	12.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.13]+5.0	12.2
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 161
Reference 7632765
Created 29/10/2015 11:27:59
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.9 (bar)
Dynamic Drag 6.9 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.88]+5.0	11.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.88]+5.0	12.0
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 162
Reference 7632766
Created 29/10/2015 11:34:56
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.3 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.8 (bar)
Dynamic Drag 6.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6.75]+5.0	11.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.75]+5.0	11.9
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:54
Uploader mholloway

Joint Identification
Joint Number 163
Reference 7632767
Created 29/10/2015 11:44:49
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.8 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[5.75]+5.0	10.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+5.0	10.9
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 164
Reference 7632768
Created 29/10/2015 11:52:19
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.0 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 165
Reference 7632769
Created 29/10/2015 12:01:35
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	233.8
Bead Pressure (bar)	[5.88]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 166
Reference 7632770
Created 29/10/2015 12:10:40
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.0 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	233.0
Bead Pressure (bar)	[6]+5.0	11.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+5.0	10.9
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 167
Reference 7632771
Created 29/10/2015 12:18:19
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29.7 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.0
Bead Pressure (bar)	[6.38]+5.0	11.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+5.0	11.5
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 168
Reference 7632772
Created 29/10/2015 12:26:16
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.0
Bead Pressure (bar)	[5.88]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 169
Reference 7632773
Created 29/10/2015 12:33:01
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29.7 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.2 (bar)
Dynamic Drag 6.2 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.25]+5.0	11.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.25]+5.0	11.5
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 170
Reference 7632774
Created 29/10/2015 12:39:55
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.9 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 171
Reference 7632775
Created 29/10/2015 12:47:00
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 172
Reference 7632776
Created 29/10/2015 12:54:27
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.8 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 8.1 (bar)
Dynamic Drag 8.1 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.13]+5.0	13.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.13]+5.0	13.1
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 173
Reference 7632777
Created 29/10/2015 13:01:43
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.3 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.38]+5.0	11.4
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+5.0	11.4
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:55
Uploader mholloway

Joint Identification
Joint Number 174
Reference 7632778
Created 29/10/2015 13:08:19
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.9 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+5.0	10.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 175
Reference 7632779
Created 29/10/2015 13:15:35
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 32 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 8.6 (bar)
Dynamic Drag 8.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[8.63]+5.0	13.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.63]+5.0	13.5
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 176
Reference 7632780
Created 29/10/2015 13:23:26
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 32 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.38]+5.0	11.4
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+5.0	11.4
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 177
Reference 7632781
Created 29/10/2015 13:33:04
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 32 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.0 (bar)
Dynamic Drag 7.0 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[7]+5.0	12.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7]+5.0	12.0
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 178
Reference 7632782
Created 29/10/2015 13:42:06
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.1 (bar)
Dynamic Drag 6.1 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6.12]+5.0	11.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.12]+5.0	11.4
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 179
Reference 7632783
Created 29/10/2015 13:48:42
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.5 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+5.0	10.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 180
Reference 7632784
Created 29/10/2015 13:54:56
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+5.0	10.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+5.0	10.8
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 181
Reference 7632785
Created 29/10/2015 14:03:15
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 110mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18

Drag Parameters
Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[5.75]+5.0	10.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+5.0	10.6
Cool Time (s)	140.0	140.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:56
Uploader mholloway

Joint Identification
Joint Number 182
Reference 7632786
Created 29/10/2015 14:28:01
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 183
Reference 7632787
Created 29/10/2015 14:34:13
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 184
Reference 7632788
Created 29/10/2015 14:40:13
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 185
Reference 7632789
Created 29/10/2015 14:45:52
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.5 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.5]+3.0	9.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.5]+3.0	9.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 186
Reference 7632790
Created 29/10/2015 14:52:00
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.5
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 187
Reference 7632791
Created 29/10/2015 14:58:04
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 188
Reference 7632792
Created 30/10/2015 07:58:30
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 15 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.9 (bar)
Dynamic Drag 6.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.88]+3.0	10.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.88]+3.0	10.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 189
Reference 7632793
Created 30/10/2015 08:05:01
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 15.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.8 (bar)
Dynamic Drag 6.8 (bar)
Dwell Time 2.0 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.75]+3.0	9.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.75]+3.0	9.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:57
Uploader mholloway

Joint Identification
Joint Number 190
Reference 7632794
Created 30/10/2015 08:11:02
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 16.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.6 (bar)
Dynamic Drag 6.5 (bar)
Dwell Time 2.0 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.62]+3.0	9.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.5]+3.0	9.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 191
Reference 7632795
Created 30/10/2015 08:18:14
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 17.7 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 2.0 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.5]+3.0	9.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+3.0	9.2
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 192
Reference 7632796
Created 30/10/2015 08:26:47
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 19.2 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 2.0 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.5]+3.0	10.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+3.0	9.5
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 193
Reference 7632797
Created 30/10/2015 08:34:12
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 20.7 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.2 (bar)
Dynamic Drag 6.1 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[6.25]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.12]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 194
Reference 7632798
Created 30/10/2015 08:39:57
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 22 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.1 (bar)
Dynamic Drag 6.1 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.12]+3.0	9.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.12]+3.0	9.2
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 195
Reference 7632799
Created 30/10/2015 08:45:52
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 23.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.2 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.25]+3.0	9.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 196
Reference 7632800
Created 30/10/2015 08:51:48
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 24 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.2 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.25]+3.0	9.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:58
Uploader mholloway

Joint Identification
Joint Number 197
Reference 7632801
Created 30/10/2015 08:57:53
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 24.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.1 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.12]+3.0	9.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 198
Reference 7632802
Created 30/10/2015 09:04:22
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 25.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6]+3.0	9.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 199
Reference 7632803
Created 30/10/2015 09:10:41
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 26.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 200
Reference 7632804
Created 30/10/2015 09:17:37
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[6]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 201
Reference 7632805
Created 30/10/2015 09:23:15
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.0
Bead Pressure (bar)	[6]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 202
Reference 7632806
Created 30/10/2015 09:28:56
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 203
Reference 7632807
Created 30/10/2015 09:34:40
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 204
Reference 7632808
Created 30/10/2015 09:42:10
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.1 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.12]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:36:59
Uploader mholloway

Joint Identification
Joint Number 205
Reference 7632809
Created 30/10/2015 09:50:07
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 206
Reference 7632810
Created 30/10/2015 09:56:43
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	232.8
Bead Pressure (bar)	[6]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 207
Reference 7632811
Created 30/10/2015 10:03:43
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 208
Reference 7632812
Created 30/10/2015 10:11:12
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.75]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 209
Reference 7632813
Created 30/10/2015 10:18:02
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[6]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 210
Reference 7632814
Created 30/10/2015 10:23:57
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.38]+3.0	9.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+3.0	9.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:00
Uploader mholloway

Joint Identification
Joint Number 211
Reference 7632815
Created 30/10/2015 10:29:54
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 27.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.5 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.5]+3.0	9.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.5]+3.0	9.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 212
Reference 7632816
Created 30/10/2015 10:36:22
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[5.88]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 213
Reference 7632817
Created 30/10/2015 10:42:44
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	9.0
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 214
Reference 7632818
Created 30/10/2015 10:48:40
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 28.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 215
Reference 7632819
Created 30/10/2015 10:54:26
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.75]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 216
Reference 7632820
Created 30/10/2015 11:00:11
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 217
Reference 7632821
Created 30/10/2015 11:07:17
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 218
Reference 7632822
Created 30/10/2015 11:13:08
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 29.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 219
Reference 7632823
Created 30/10/2015 11:18:57
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:01
Uploader mholloway

Joint Identification
Joint Number 220
Reference 7632824
Created 30/10/2015 11:25:14
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.5 (bar)
Dynamic Drag 6.5 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.5]+3.0	9.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.5]+3.0	9.5
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 221
Reference 7632825
Created 30/10/2015 11:31:09
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 7.9 (bar)
Dynamic Drag 7.9 (bar)
Dwell Time 2.0 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[7.88]+3.0	10.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.88]+3.0	11.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 222
Reference 7632826
Created 30/10/2015 11:37:06
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.3 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.1
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 223
Reference 7632827
Created 30/10/2015 11:42:39
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.8 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.88]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 224
Reference 7632828
Created 30/10/2015 11:48:08
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 225
Reference 7632829
Created 30/10/2015 11:53:42
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	8.8
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 226
Reference 7632830
Created 30/10/2015 11:59:28
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 227
Reference 7632831
Created 30/10/2015 12:05:49
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:02
Uploader mholloway

Joint Identification
Joint Number 228
Reference 7632832
Created 30/10/2015 12:11:50
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 229
Reference 7632833
Created 30/10/2015 12:17:29
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.7 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.6 (bar)
Dynamic Drag 5.5 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.63]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.5]+3.0	8.5
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 230
Reference 7632834
Created 30/10/2015 12:24:33
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.6 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.63]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 231
Reference 7632835
Created 30/10/2015 12:31:00
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.88]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 232
Reference 7632836
Created 30/10/2015 12:36:42
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.88]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 233
Reference 7632837
Created 30/10/2015 12:42:18
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.8 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.75]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 234
Reference 7632838
Created 30/10/2015 12:48:55
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.4 (bar)
Dynamic Drag 6.4 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.38]+3.0	9.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6.38]+3.0	9.5
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 235
Reference 7632839
Created 30/10/2015 12:54:54
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 236
Reference 7632840
Created 30/10/2015 13:00:32
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:03
Uploader mholloway

Joint Identification
Joint Number 237
Reference 7632841
Created 30/10/2015 13:06:46
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 238
Reference 7632842
Created 30/10/2015 13:12:47
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.9 (bar)
Dynamic Drag 5.9 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.88]+3.0	9.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.88]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 239
Reference 7632843
Created 30/10/2015 13:18:26
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[5.75]+3.0	8.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 240
Reference 7632844
Created 30/10/2015 13:24:35
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 30.5 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 6.0 (bar)
Dynamic Drag 6.0 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6]+3.0	8.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[6]+3.0	9.2
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

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Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 241
Reference 7632845
Created 30/10/2015 13:30:29
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[5.75]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[5.63]+3.0	8.9
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 242
Reference 7632846
Created 30/10/2015 13:36:10
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.6 (bar)
Dwell Time 1.9 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Soak Pressure (bar)	[5.63]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Joint Record

www.jointmanager.com

Joint Status COMPLETE
Account _SHELF
Uploaded 12/11/2015 09:37:04
Uploader mholloway

Joint Identification
Joint Number 243
Reference 7632847
Created 30/10/2015 13:42:02
Operator STUARTHOUSE

Project Details
Project Joint Number 0.*

Machine
Model Gator
Type GATOR180
Serial Number G180-2002
Owner FUSION HIRE
Software version VH.68TS/GB
Operating Voltage 110V

Location & Environment
Location DOCKSWAY
Ambient Temp 31 °C

Pipe Selected
PE80 90mm SDR 17.6 Black

Pipe/Fitting Details

Welding Parameters
Standard Fusion FW Landfill18
Drag Parameters Peak Drag 5.8 (bar)
Dynamic Drag 5.5 (bar)
Dwell Time 1.8 (secs)

	TARGET	ACTUAL
Energy (kJ)	-	-
Voltage (V)	-	-
Cool Time (s)	-	-
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[5.75]+3.0	8.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Soak Pressure (bar)	[5.5]+3.0	8.6
Cool Time (s)	120.0	120.0

Final Bead OK Yes

Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

4. Photographic Log of the Works

PHOTO LOG

Plate No.	Description
1	Drilling Rig Above Proposed Drilling Location.
2	Gas Well End Cap.
3	Installation of 160mm SDR 11 Perforated HDPE Pipework
4	Installation of gravel pack.
5	Hydration of dry Bentonite over Gravel pack.
6	Completed Installation of Gas Well.

Plate 1



Plate 2



Plate 3



Plate 4



Plate 5



Plate 6



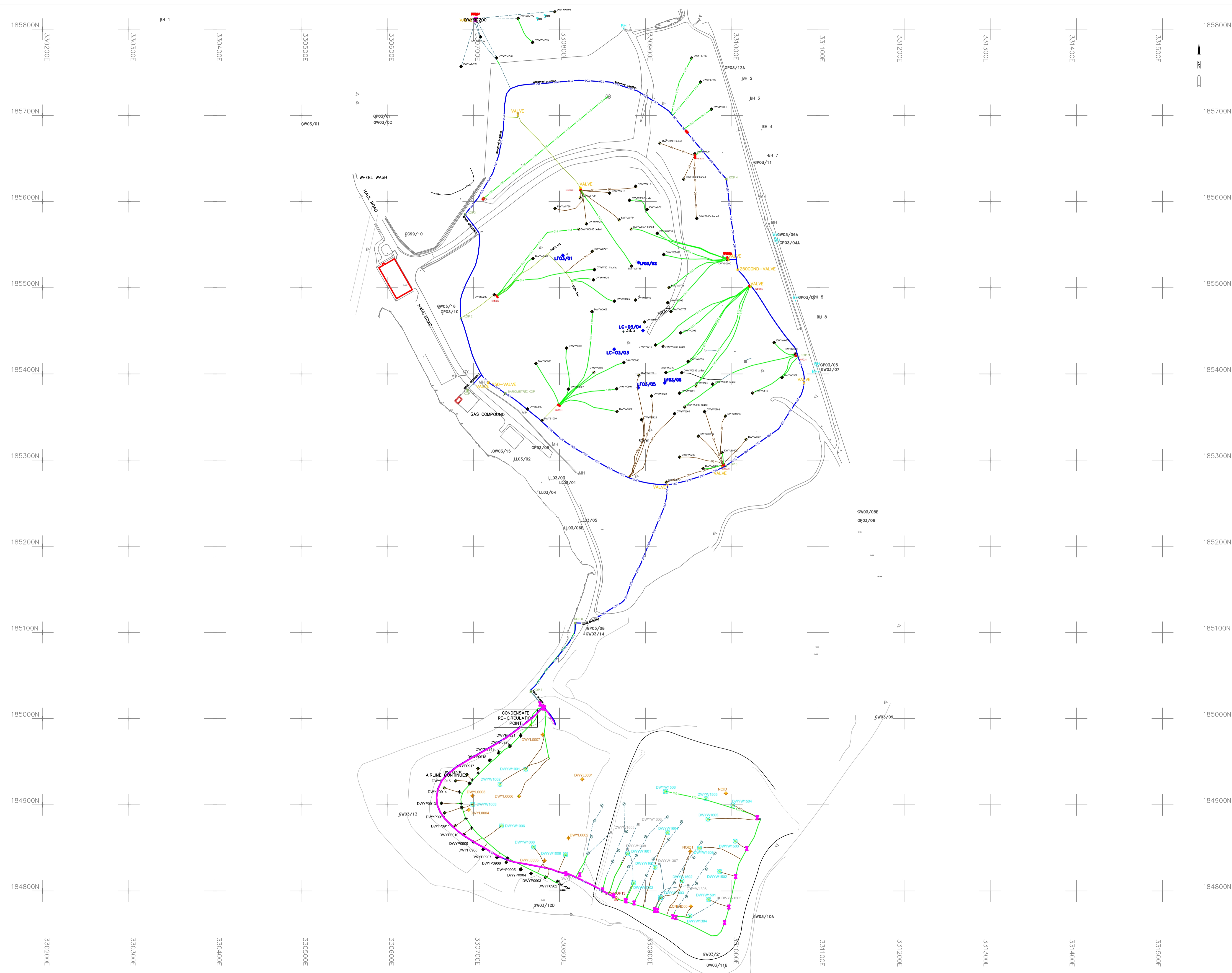
Infinis Energy Services Ltd.

Docksway Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

5. Well Location Plan



LEGEND

Monitoring Points

- Landfill Gas Monitoring Borehole
- Landfill Gas Surface Monitoring Point
- Combined Gas/ Groundwater Monitoring Point
- Gas Flare Stack
- Landfill Gas Extraction/ Leachate Monitoring Point
- Condensate Unit (Knock-out Pot)
- Groundwater Monitoring Borehole
- Groundwater Pumping Point
- Surface Water Monitoring Point
- Leachate Collection Point
- Leachate Monitoring Point
- Leachate Recirculation Point
- Valve
- KOP
- PEG
- Manifold
- Finn Drains
- Pinwell

Gas Wells

- Gas Well 630
- Gas Well 900
- Gas Well 1100
- Gas Well 1200
- Gas Well 1600
- Gas Well 1800
- Gas Well 2250
- Gas Well 2500 >
- Proposed Gas Well
- Assumed Gas Well

Infrastructure Pipework

Above ground Pipe	Underground Pipe
32	32mm Gas Pipe
55	55mm Gas Pipe
	63mm Gas Pipe
	90mm Gas Pipe
	110mm Gas Pipe
120	120mm Gas Pipe
125	125mm Gas Pipe
	160mm Gas Pipe
	180mm Gas Pipe
200	200mm Gas Pipe
	250mm Gas Pipe
280	280mm Gas Pipe
315	315mm Gas Pipe
355	355mm Gas Pipe
400	400mm Gas Pipe
450	450mm Gas Pipe
500	500mm Gas Pipe
650	650mm Gas Pipe
L	Leachate Pipe
A	Airline Pipe
	Air and Discharge Pipe
D	Discharge Pipe
	Condensate Pipe
LR	Leachate Recirculation Pipe
	Assumed Pipe

NOTES:

- All dimensions are in metres unless otherwise stated.
- Co-ordinates and levels are related to site co-ordinate system
- For well co-ordinates and levels please refer to spreadsheet: 6372_GI02 - DocksWay - Gas Well Co-ordinates and Levels - November 2015
- Copied from original drawing INF-DOCKSWAY-GS-02B

Disclaimer:
THIS INFORMATION SHOULD NOT BE REGARDED AS ACCURATE AND SHOULD BE USED FOR GUIDANCE PURPOSES ONLY.

UTEC STARNET
GARD ID Prefix:
INF-DOCKSWAY-GS-02B

REVISIONS

No	Description	By	CHK'd	Date

Project: **DOCKSWAY LANDFILL SITE**

Title: **Gas Infrastructure Plan**

Drawn By: RJ Date: 23/11/15
 Chk'd By: TR Date: 23/11/15
 Scale 1: 1:2000 Sheet Size A1

A1 SHEET

infinis
Drawing No: 6371_GI02

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