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Infinis Energy Services Ltd.

Pen-Y-Bont (Chirk) Landfill Site

Retro Drilling of Gas Wells

Construction Quality Assurance Report

August 2015

Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

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Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

August 2015

Prepared for
Infinis Energy Services Ltd.

Prepared by
Egniol Environmental Ltd.
Tre Felin
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Document Review

Version No.	Date of Review	Prepared By	Reviewed By	Approved By
1.0	24.08.2015	Karen O'Neill	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 Chirk 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.: *Chirk Landfill Site, Retro Drilling Gas Wells, Construction Quality Assurance Report, Version 1.0, April 2015*).
- 1.3** In accordance with this appointment, Egniol have produced this report which covers the retro drilling of gas wells at Chirk Landfill Site.

2.0 LOCATION AND DESCRIPTION OF SITE

2.1 Site Location

Chirk Landfill Site is located approximately 3 miles west of the town of Chirk, in the county borough of Wrexham

2.2 Site Address

Pen-Y-Bont (Chirk) Landfill Site
Pen-Y-Bont
Chirk
Wrexham
LL14 5AR

3.0 BRIEF DESCRIPTION AND TIMING OF WORKS

3.1 Description of Works

In accordance with the approved CQA Plan (Egniol Environmental Ltd.: *Chirk Landfill Site, Retro Drilling Gas Wells, Construction Quality Assurance Report, Version 1.0, April 2015*). 15 no. landfill gas extraction wells were to be installed into areas of capped and uncapped waste at Chirk Landfill Site by means of Retro-Drilling.

The Works commenced on the 11th May 2015 and were completed on the 29th May 2015

The proposed locations were supplied by Infinis, following checking and approval by FCC (the Site Permit Holder) prior to the Works commencing. These locations were surveyed and marked with the erection of a wooden peg. Each peg was labeled with its own identification number. Once the well was installed, the marker peg was erected next to the well. Once the Infinis representative fitted the headworks, the reference number was written to the headworks.

Table 1 – Well Location and Drill Depth Information

Gas Well I.D.	Eastings	Northings	Proposed Drill Depth (mBGL)	Actual Drill Depth (mBGL)	Theoretical Stone Installation Volume (m ³)	Actual Stone Installation Volume (m ³)
PW79R	329234.915	341655.392	23.0	23.0	1.522	1.52
PW122	329136.516	341747.187	46.0	46.0	3.273	3.27
PW17R2	329118.999	341734.919	44.0	44.0	3.120	3.12
PW121	329122.924	341699.956	35.0	35.0	2.435	2.43
PW80R	329263.826	341664.351	20.0	20.0	1.294	1.29
PW81R	329293.754	341668.676	13.0	13.0	0.761	0.76
PW73R	329316.438	341760.504	34.0	34.0	2.359	2.35
PW93R	329273.343	341789.735	34.0	34.0	2.359	2.35
PW91R	329292.911	341774.383	38.0	38.0	2.664	2.66
PW010R	329128.27	341816.131	34.0	34.0	2.359	2.35
PW120	329135.394	341678.274	30.0	30.0	2.055	2.05
PW43R	329167.542	341692.086	44.0	42.7	3.021	3.02
PW25R2	329158.251	341647.781	28.0	28.0	1.903	1.90
PW21R	329185.988	341773.062	47.0	29.0	1.979	1.98
PW2AR2	329180.14	341714.246	46.0	36.0	2.511	2.51

Well Locations as supplied by Infinis Energy Services Ltd. via email dated 27th August 2015.

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. All butt-fusion welding was carried out under the supervision of Infinis.

The pipework installed consisted of 160mm diameter HDPE SDR11 pipe with a solid upper section and a lower perforated section. The upper section of solid pipework had a minimum of 3.7m 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 push fit air-tight end cap to await installation of the gas well headwork's and connection to the landfill gas extraction system.

The annulus between the HDPE pipe and waste was backfilled with 20-40mm non-calcareous smooth gravel to a minimum depth of 3.0m 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

Gas Well PW79R

Gas Well PW79R was drilled to the target depth of 23.0m Below Ground Level (BGL). Pipework was installed to a depth of 23.0m BGL and consisted of 18.0m perforated casing and 6.0m solid casing (including 1.0m Above Ground Level (AGL)). Gravel was installed to a depth of 3.0m BGL; approximately 1.52m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW122

Gas Well PW122 was drilled to the target depth of 46.0m BGL. Pipework was installed to a depth of 46.0m BGL and consisted of 41.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 3.27m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW17R2

Gas Well PW17R2 was drilled to the target depth of 44.0m BGL. Pipework was installed to a depth of 44.0m BGL and consisted of 39.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 3.12m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW121

Gas Well PW121 was drilled to the target depth of 35.0m BGL. Pipework was installed to a depth of 35.0m BGL and consisted of 30.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.43m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW80R

Gas Well PW80R was drilled to the target depth of 20.0m BGL. Pipework was installed to a depth of 20.0m BGL and consisted of 15.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 1.29m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW81R

Gas Well PW81R was drilled to the target depth of 13.0m BGL. 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 3.0m BGL; approximately 0.76m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW73R

Gas Well PW73R was drilled to the target depth of 34.0m BGL. Pipework was installed to a depth of 34.0m BGL and consisted of 29.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.35m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW93R

Gas Well PW93R was drilled to the target depth of 34.0m BGL. Pipework was installed to a depth of 34.0m BGL and consisted of 29.0m perforated casing and

6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.35m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW91R

Gas Well PW91R was drilled to the target depth of 38.0m BGL. Pipework was installed to a depth of 38.0m BGL and consisted of 33.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.66m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW010R

Gas Well PW010R was drilled to the target depth of 34.0m BGL. Pipework was installed to a depth of 34.0m BGL and consisted of 29.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.35m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW120

Gas Well PW120 was drilled to the target depth of 30.0m BGL. Pipework was installed to a depth of 30.0m BGL and consisted of 25.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.05m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW43R

Gas Well PW43R was drilled to the target depth of 44.0m BGL. During the installation of the well pipework, waste was observed to have collapsed at the bottom of the base; Infinis were informed and instructed that the well pipework was to be installed at the achieved depth of 42.70m BGL.

Pipework was installed to 42.7m BGL and consisted of 39.0m perforated casing and 6.0m solid casing (including 2.3m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 3.02m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW25R2

Gas Well PW25R2 was drilled to the target depth of 28.0m BGL. Pipework was installed to a depth of 28.0m BGL and consisted of 23.0m perforated casing and

6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 1.90m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW21R

Gas Well PW21R was drilled to a depth of 29.0m, short of the target depth of 47.0m BGL. Initial drilling reached 33.0m BGL whereupon no further arisings could be recovered; Infinis were informed and instructed to install at 33.0m. Upon installation to this depth, it was recorded that waste had collapsed into the borehole, reducing the depth to 29.0m. Infinis were again contacted and instructed that the installation proceed at 29.0m.

Pipework consisted of 24.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 2.51m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a seal to ground level.

Gas Well PW2AR2

Drilling of Well PW2AR2 reached 20.0m BGL whereupon an obstruction was encountered. Infinis were contacted and they instructed that the borehole be backfilled with waste arisings to 2.0m below ground level and a hydrated bentonite seal added to the borehole to ground level. The well location was then moved by 2.0m, as instructed by Infinis, with drilling recommencing to the target depth of 46.0m.

Upon recommencement of the drilling, works proceeded to a depth of 36.0m, short of the target depth of 46.0m BGL, as no waste arisings could be retrieved past this depth. Pipework was installed to a depth of 36.0m BGL and consisted of 31.0m perforated casing and 6.0m solid casing (including 1.0m AGL). Gravel was installed to a depth of 3.0m BGL; approximately 1.98m³ was installed. The remaining portion of the annulus was backfilled with a hydrated bentonite which was mixed outside and poured into the annulus to form a 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 by the means of a dumper then transported to the tip face Details of the waste arisings can be found in the CQA Inspectors drilling logs enclosed in Appendix 2 of this CQA Report.

A deodourising unit was utilized during the drilling works.

5.0 ISSUES ENCOUNTERED

5.1 Whilst drilling Gas Well PW21R to a target depth of 47.0m, no waste arisings could be recovered past 36.0m BGL. Infinis instructed that the well pipework was to be installed to the achieved depth of 36.0m.

5.2 Drilling of Gas Well PW43R proceeded to a target depth of 44.0m. Upon installation of the pipework, waste collapsed back into the borehole, reducing the depth to 42.7m; Infinis instructed installation proceed at this depth, with 2.3m of solid pipework above ground level

5.3 Whilst drilling Gas Well PW2AR2 to a target depth of 46.0m an obstruction was encountered at 20.0mBGL. Infinis instructed that the borehole was to be aborted and backfilled with waste arisings to 2.0m BGL, with the final section of the borehole sealed with a hydrated bentonite seal.

Infinis further instructed that the well location was moved by 2.0m from the previous proposed location. Drilling recommenced to a depth of 36.0m BGL, whereupon no further arisings could be recovered. Infinis were again contacted and they instructed that installation proceed at the achieved depth of 36.0m.

5.4 No further issues were encountered.

6.0 CONCLUSIONS

- 6.1** From the observations and measurements made by the CQA Inspector, to the best of our knowledge, 15 no. gas extraction wells were installed at Chirk Landfill Site to a satisfactory standard and in accordance with the previously approved CQA Plan.

Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

1. CQA Inspectors Daily Logs

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Monday 11th May 2015
Weather	Previous Night Dry Sunny Sunny / Cloudy
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	09.30
CQA Arrival Time:	07.30
Contractors Departure Time:	16.30
CQA Departure Time:	16.00
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> 13.50hrs Drilling rig underwent Inspections. Passed for the upcoming works. <u>Gas Extraction Well PW 79R</u> MDL Positioned the drilling rig at peg location PW 79R. 15.45hrs - MDL commenced drilling to gas well PW 79R to a proposed target depth of 23.00m BGL. 160mm pipework was not installed because rig broke down. Place seal to control odour overnight. All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth.
Meetings/ Correspondence	Inductions with FCC and Infinis. Pre start meeting and walk over to discuss the upcoming drilling works.
Health and Safety	No issues.
Visitors to Site	Leanne Smith Infinis
Comments	

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Tuesday 12th May 2015
Weather	Previous Night a.m p.m
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.00
Contractors Departure Time:	17.45
CQA Departure Time:	17.45
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> 13.50hrs Drilling rig underwent Inspections. Passed for the upcoming works. <u>Gas Extraction Well PW 79R</u> Rig repaired at 13.00. MDL clean Well PW 79R before pipe installation. 160mm pipework was installed to a depth of 23.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite slurry installed. <u>Gas Extraction Well PW 122</u> MDL Positioned the drilling rig at peg location PW 122. 15.00hrs - MDL commenced drilling to gas well PW 122 to a proposed target depth of 46.00 m BGL. 1.30hrs - MDL not completed borehole to a depth of 46.00m BGL to gas well PW 122. Stop operation on depth 20.0mBGL. Place seal to control odour overnight.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Health and Safety	No issues.
Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Wednesday 13th May 2015
Weather	Previous Night Dry a.m O/Cast p.m O/Cast
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.00
Contractors Departure Time:	17.45
CQA Departure Time:	17.45
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 122</u> Continue drilling gas well PW 122 from depth 20.0mBGL. 160mm pipework was installed to a depth of 46.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite slurry installed. <u>Gas Extraction Well PW 17R2</u> MDL Positioned the drilling rig at peg location PW 17R2. 12.50hrs - MDL commenced drilling to gas well PW 17R2 to a proposed target depth of 44.00 m BGL. MDL completed borehole to a depth of 39.00m BGL to gas well PW 17R2, 160mm pipework was installed to a depth of 39.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Health and Safety	No issues.
Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Thursday 14th May 2015
Weather	Previous Night Dry a.m O/Cast, Shower p.m O/Cast, Showers
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.00
Contractors Departure Time:	17.45
CQA Departure Time:	17.45
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 17R2</u> Continue drilling gas well PW 17R2 from depth 39.00mBGL. MDL completed borehole to a depth of 44.0m BGL to gas well PW 17R2. 160mm pipework was installed to a depth of 44.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite slurry installed. <u>Gas Extraction Well PW 121</u> MDL Positioned the drilling rig at peg location PW 121. 13.40hrs - MDL commenced drilling to gas well PW 121 to a proposed target depth of 35.00 m BGL. MDL completed borehole to a depth of 35.0m BGL to gas well PW 121. 160mm pipework was not installed today.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A
Health and Safety	No issues.
Visitors to Site	

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC
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For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Friday 15th May 2015
Weather	Previous Night Showers a.m Sunny with O/Cast p.m Sunny
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.00
Contractors Departure Time:	10.00
CQA Departure Time:	10.45
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 121</u> Continue drilling gas well PW 121 from depth 33.00mBGL. MDL completed borehole to a depth of 35.0m BGL to gas well PW 121. 160mm pipework was installed to a depth of 35.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite slurry installed.
Testing Undertaken	Visual inspection & photographs taken. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A
Health and Safety	No issues.
Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC. Rig broke down, hydraulic pipes problem.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Monday 18th May 2015	
Weather	Previous Night	Rain
	a.m	Rain
	p.m	O/Cast, passing showers
Site Hours:	07.00 – 17.00	
Contractors Arrival Time:	09.00	
CQA Arrival Time:	07.25	
Contractors Departure Time:	17.45	
CQA Departure Time:	17.45	
Contractors Plant / Resources Utilised	<u>Maggie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew	
Contract Works Undertaken	<u>Maggie Drilling Ltd.</u> Maintaining rig (replaced hydraulic pipe) till 10.20. <u>Gas Extraction Well PW 80R</u> MDL Positioned the drilling rig at peg location PW 80R. 10.40hrs - MDL commenced drilling to gas well PW 80R to a proposed target depth of 20.00 m BGL. MDL completed borehole to a depth of 20.00m BGL to gas well PW 80R, 160mm pipework was installed to a depth of 20.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 81R</u> MDL Positioned the drilling rig at peg location PW 81R. 12.50hrs - MDL commenced drilling to gas well PW 81R to a proposed target depth of 13.00 m BGL. MDL completed borehole to a depth of 13.00m BGL to gas well PW 81R, 160mm pipework was installed to a depth of 13.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 73R</u> MDL Positioned the drilling rig at peg location PW 73R 14.10hrs - MDL commenced drilling to gas well PW 73R to a proposed target depth of 34.00 m BGL. MDL completed borehole to a depth of 20.00m BGL today. Place bentonite seal to control odour overnight.	
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked.	

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

	Depth of bentonite seal checked..
Meetings/ Correspondence	N/A
Health and Safety	No issues.
Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Tuesday 19th May 2015
Weather	Previous Night a.m p.m
	Rain Showers O/Cast, passing showers
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	09.00
CQA Arrival Time:	07.30
Contractors Departure Time:	18.45
CQA Departure Time:	18.45
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 73R</u> MDL completed borehole to a depth of 34.00m BGL to gas well PW 73R, 160mm pipework was installed to a depth of 34.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 93R</u> MDL Positioned the drilling rig at peg location PW 93R. 14.10hrs - MDL commenced drilling to gas well PW 93R to a proposed target depth of 34.00 m BGL. MDL completed borehole to a depth of 34.00m BGL to gas well PW 93R, 160mm pipework was installed to a depth of 34.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 91R</u> MDL Positioned the drilling rig at peg location PW 91R
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A
Health and Safety	No issues.

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Wednesday 20th May 2015
Weather	Previous Night Dry Sunny Sunny
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.20
Contractors Departure Time:	18.15
CQA Departure Time:	18.15
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 91R</u> MDL Positioned the drilling rig at peg location PW 91R 11.10 hrs - MDL commenced drilling to gas well PW 91R to a proposed target depth of 38.00 m BGL. MDL completed borehole to a depth of 38.00m BGL to gas well PW 93R, 160mm pipework was installed to a depth of 38.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 010R</u> MDL Positioned the drilling rig at peg location PW 010R 14.30 hrs - MDL commenced drilling to gas well PW 010R to a proposed target depth of 34.00 m BGL. MDL completed borehole to a depth of 20.00m BGL to gas well PW 010R.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked..
Meetings/ Correspondence	N/A
Health and Safety	No issues.
Visitors to Site	

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC. Replace hydraulic pipe between 13:40 to 14:20
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For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Thursday 21st May 2015
Weather	Previous Night Dry Sunny Sunny
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.20
Contractors Departure Time:	18.15
CQA Departure Time:	18.15
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper. Manitou 923 Telehandler. Water Carrier. De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 010R</u> MDL completed borehole to a depth of 34.00m BGL to gas well PW 010R, 160mm pipework was installed to a depth of 34.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed <u>Gas Extraction Well PW 120</u> MDL Positioned the drilling rig at peg location PW 120. 11.10 hrs - MDL commenced drilling to gas well PW 120 to a proposed target depth of 30.00 m BGL. MDL completed borehole to a depth of 30.00m BGL to gas well PW 120, 160mm pipework was installed to a depth of 30.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 43R</u> MDL Positioned the drilling rig at peg location PW 43R. 15.00 hrs - MDL commenced drilling to gas well PW 43R to a proposed target depth of 44.00 m BGL. MDL completed borehole to a depth of 20.00m BGL today.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked..
Meetings/ Correspondence	N/A

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Health and Safety	No issues.
Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Friday 22nd May 2015
Weather	Previous Night Dry a.m O/Cast p.m o/Cast
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.20
Contractors Departure Time:	18.15
CQA Departure Time:	18.15
Contractors Plant / Resources Utilised	<u>Maggie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Maggie Drilling Ltd.</u> <u>Gas Extraction Well PW 43R</u> 7.50 - MDL continue drilling borehole from depth of 20.00m BGL to gas well PW43R, proposal depth 44.00 m BGL, 160mm pipework was installed to a depth of 42.70m BGL due to collapse of waste at base. Infinis contacted. MDL Installed 20/40 gravel pack to 3.0m BGL. Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 25R2</u> MDL Positioned the drilling rig at peg location PW 25R2. 11.30 hrs - MDL commenced drilling to gas well PW 25R2 to a proposed target depth of 28.00 m BGL. MDL completed borehole to a depth of 28.00m BGL to gas well PW 25R2. 160mm pipework was installed to a depth of 28.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A
Health and Safety	No issues.

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Tuesday 26th May 2015	
Weather	Previous Night	Dry
	a.m	O/Cast
	p.m	o/Cast
Site Hours:	07.00 – 17.00	
Contractors Arrival Time:	09.30	
CQA Arrival Time:	07.30	
Contractors Departure Time:	16.10	
CQA Departure Time:	16.10	
Contractors Plant / Resources Utilised	<u>Maggie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper. Manitou 923 Telehandler. Water Carrier. De Odourizer 2 x Drilling Crew	
Contract Works Undertaken	<u>Maggie Drilling Ltd.</u> <u>Gas Extraction Well PW 21R</u> MDL Positioned the drilling rig at peg location PW 21R 10.20 hrs - MDL commenced drilling to gas well PW 21R to a proposed target depth of 47.00 m BGL. 16.00 MDL stopped drilling PW 21R to 25.00 m BGL today.	
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked..	
Meetings/ Correspondence	N/A	
Health and Safety	No issues.	
Visitors to Site		
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.	

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Wednesday 27th May 2015
Weather	Previous Night Dry Sunny O/Cast, L/Showers
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.30
Contractors Departure Time:	18.00
CQA Departure Time:	18.00
Contractors Plant / Resources Utilised	<u>Maggie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrie De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Maggie Drilling Ltd.</u> <u>Gas Extraction Well PW 21R</u> 9.20 - MDL continue drilling borehole from depth of 25.00m BGL to gas well PW 21R, proposal depth 47.00 m BGL. No recovery on 33.00 m BGL. CQA Engineer informed Infinis and been instructed by Roy Bonham to install pipe. During pipe installation PW 21R collapse, depth reduced to 29.00m. Infinis contacted. 160mm pipework was installed to a depth of 29.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed. <u>Gas Extraction Well PW 2AR2</u> MDL Positioned the drilling rig at peg location PW 2AR2 16.10 hrs - MDL commenced drilling to gas well PW 2AR2 to a proposed target depth of 46.00 m BGL. MDL completed borehole to a depth of 18.00m BGL today. Seal overnight to control odour.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked.
Meetings/ Correspondence	N/A
Health and Safety	No issues.

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Visitors to Site	
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.

For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Thursday 28th May 2015
Weather	Previous Night Dry a.m O/Cast, Dry p.m O/Cast, Dry
Site Hours:	07.00 – 17.00
Contractors Arrival Time:	07.30
CQA Arrival Time:	07.30
Contractors Departure Time:	18.00
CQA Departure Time:	18.00
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper Manitou 923 Telehandler Water Carrier De Odourizer 2 x Drilling Crew
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 2AR2</u> 7.40 - MDL continue drilling borehole from depth of 17.00m BGL to gas well PW2AR2, proposal depth 46.00 m BGL, Obstruction during drilling borehole on 20.00 m BGL. CQA Informed Infinis and been instructed by Roy Bonham to move 2.0 m off proposal location. All locations to be resurvey after complete all installations. Borehole backfilled with waste to 2.0m BGL, remainder filled with hydrated bentonite to ground level. MDL Positioned the drilling rig at new location PW 2AR2 (under instruction from Infinis). 10.40 hrs - MDL commenced drilling to gas well PW 2AR2 to a proposed target depth of 46.00 m BGL. MDL stopped borehole to a depth of 35.00m BGL today. Place bentonite seal to control odour overnight.
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked..
Meetings/ Correspondence	N/A
Health and Safety	No issues.
Visitors to Site	

For Egniol Environmental Ltd: Maciej Turkowski



CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.
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For Egniol Environmental Ltd: Maciej Turkowski

CQA Inspector's Daily Report

Site Name: Chirk LFS

Project: Retro-Drilling of Gas Wells

Date	Thursday 28th May 2015	
Weather	Previous Night	Rain
	a.m	Rain from 10.00 am showers
	p.m	O/Cast, Showers
Site Hours:	07.00 – 17.00	
Contractors Arrival Time:	07.20	
CQA Arrival Time:	07.150	
Contractors Departure Time:	13.00	
CQA Departure Time:	13.00	
Contractors Plant / Resources Utilised	<u>Magpie Environmental Drilling Ltd</u> Comacchio MC3000s Drilling Rig Terex TA6 Forward Tipping Dumper. Manitou 923 Telehandler. Water Carrier. De Odourizer 2 x Drilling Crew	
Contract Works Undertaken	<u>Magpie Drilling Ltd.</u> <u>Gas Extraction Well PW 2AR2</u> 7.30 - MDL continue drilling borehole from depth of 35.00m BGL to gas well PW 2AR2, proposal depth 46.00 m BGL. No recovery on 36.00 m BGL. CQA Engineer informed Infinis and been instructed by Roy Bonham to install pipe. 160mm pipework was installed to a depth of 36.00m BGL. MDL Installed 20/40 gravel pack to 3.0m BGL Hydrated Bentonite seal backfilled to ground level. Air tight gas seal cap fitted. 4 bags of Bentonite installed.	
Testing Undertaken	Visual inspection & photographs taken. Verticality Checks every 5m. Borehole depth checks 3m above target depth. Borehole depth checked prior to installing pipework. Depth of 20-40m gravel pack checked. Depth of bentonite seal checked..	
Meetings/ Correspondence	N/A	
Health and Safety	No issues.	
Visitors to Site		
Comments	All waste arising were placed the dumper and placed on the tip face as instructed by Infinis and FCC.	

For Egniol Environmental Ltd: Maciej Turkowski

Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

2. CQA Drilling Logs.

DRILLING REPORT						Well Number: PW 79R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 11-12.05.2015			Installation Details			Target Depth (m): 23.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 23.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 18.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 20.00				
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	GL
0.0			0	Clay/Soils		Clay/Soil	
	1.0			Clay/Soils	0.5		LLDPE CAP 1m BGL
1.0		1	1	Clay/Soils			
	2.0			Clay/Soils	1.5		Hydrated Bentonite
2.0		1	2	Damp Consolidated Waste			
	3.0			Damp Consolidated Waste	2.5		
3.0		1	3	Damp Consolidated Waste			
	4.0			Damp Consolidated Waste	3.5		
4.0		1	4	Damp Consolidated Waste			
	5.0			Damp Consolidated Waste	4.5		J.N 34
5.0		1	5	Damp Consolidated Waste			
	6.0			Damp Consolidated Waste	5.5		
6.0		1	6	Damp Consolidated Waste			
	7.0			Damp Consolidated Waste	6.5		
7.0		1	7	Damp Consolidated Waste			
	8.0			Damp Consolidated Waste	7.5	Damp Waste	
8.0		1	8	Damp Consolidated Waste			
	9.0			Damp Consolidated Waste	8.5		
9.0		1	9	Damp Consolidated Waste			20/40 Gravel
	10.0			Damp Consolidated Waste	9.5		
10.0		1	10	Damp Consolidated Waste			
	11.0			Damp Consolidated Waste	10.5		J.N 35
11.0		1	11	Damp Consolidated Waste			
	12.0			Damp Consolidated Waste	11.5		
12.0		1	12	Damp Consolidated Waste			
	13.0			Damp Consolidated Waste	12.5		
13.0		1	13	Damp Consolidated Waste			
	14.0			Damp Consolidated Waste	13.5		
14.0		1	14	Damp Consolidated Waste			
	15.0			Damp Consolidated Waste	14.5		
15.0		1	15	Damp Consolidated Waste			
	16.0			Damp Consolidated Waste	15.5		
16.0		1	16	Wet Consolidated Waste		Wet Waste	J.N 36
	17.0			Wet Consolidated Waste	16.5		
17.0		1	17	Wet Consolidated Waste			
	18.0			Wet Consolidated Waste	17.5		
18.0		1	18	Damp Consolidated Waste			
	19.0			Damp Consolidated Waste	18.5		
19.0		1	19	Damp Consolidated Waste			
	20.0			Damp Consolidated Waste	19.5	Damp Waste	
20.0		1	20	Damp Consolidated Waste			
	21.0			Damp Consolidated Waste	20.5		
21.0		1	21	Damp Consolidated Waste			
	22.0			Damp Consolidated Waste	21.5		
22.0		1	22	Damp Consolidated Waste			J.N 37
	23.0			Damp Consolidated Waste	22.5		
23.0		1	23				
	24.0				23.5		
24.0		1	24				
	25.0				24.5		
25.0		1	25				
	26.0				25.5		
26.0		1	26				
	27.0				26.5		
27.0		1	27				
	28.0				27.5		
28.0		1	28				
	29.0				28.5		
29.0		1	29				
	30.0				29.5		
30.0		1	30				
	31.0				30.5		
31.0		1	31				
	32				31.5		

DRILLING REPORT						Well Number: PW 122	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 12-13.05.2015			Installation Details			Target Depth (m): 46.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 46.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 41.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 43.00				
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	GL
0.0	1.0	1	1	Dry Mixed Waste	0.5	Dry Waste	Bentonite
1.0	2.0	1	2	Dry Mixed Waste	1.5		
2.0	3.0	1	3	Dry Mixed Waste	2.5		
3.0	4.0	1	4	Dry Mixed Waste	3.5		
4.0	5.0	1	5	Dry Mixed Waste	4.5		
5.0	6.0	1	6	Wet Consolidated Waste	5.5	Wet Waste	J.N 20
6.0	7.0	1	7	Wet Consolidated Waste	6.5	Dry Waste	20/40 Gravel
7.0	8.0	1	8	Dry Consolidated Waste	7.5		
8.0	9.0	1	9	Dry Consolidated Waste	8.5		
9.0	10.0	1	10	Dry Consolidated Waste	9.5		
10.0	11.0	1	11	Dry Consolidated Waste	10.5		
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	Dry Consolidated Waste	14.5		
15.0	16.0	1	16	Dry Consolidated Waste	15.5		
16.0	17.0	1	17	Dry Consolidated Waste	16.5		
17.0	18.0	1	18	Dry Consolidated Waste	17.5		
18.0	19.0	1	19	Dry Consolidated Waste	18.5		
19.0	20.0	1	20	Dry Consolidated Waste	19.5		
20.0	21.0	1	21	Dry Consolidated Waste	20.5		
21.0	22.0	1	22	Dry Consolidated Waste	21.5		
22.0	23.0	1	23	Dry Consolidated Waste	22.5		
23.0	24.0	1	24	Dry Consolidated Waste	23.5		
24.0	25.0	1	25	Dry Consolidated Waste	24.5		
25.0	26.0	1	26	Dry Consolidated Waste	25.5		
26.0	27.0	1	27	Dry Consolidated Waste	26.5		
27.0	28.0	1	28	Dry Consolidated Waste	27.5		
28.0	29.0	1	29	Dry Consolidated Waste	28.5		
29.0	30.0	1	30	Dry Consolidated Waste	29.5		
30.0	31.0	1	31	Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 122	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 12-13.05.2015			Installation Details			Target Depth (m): 46.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 46.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 41.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm		
			Gravel (m): 43.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0	33.0	1	32	Dry Consolidated Waste		Dry Waste	J.N. 25 20/40 Gravel
				Dry Consolidated Waste	32.5		
33.0	34.0	1	33	Dry Consolidated Waste			
				Dry Consolidated Waste	33.5		
34.0	35.0	1	34	Dry Consolidated Waste			
				Dry Consolidated Waste	34.5		
35.0	36.0	1	35	Dry Consolidated Waste			
				Dry Consolidated Waste	35.5		
36.0	37.0	1	36	Dry Consolidated Waste			
				Dry Consolidated Waste	36.5		
37.0	38.0	1	37	Dry Consolidated Waste		Damp Waste	J.N. 26
				Dry Consolidated Waste	37.5		
38.0	39.0	1	38	Dry Consolidated Waste			
				Dry Consolidated Waste	38.5		
39.0	40.0	1	39	Dry Consolidated Waste			
				Dry Consolidated Waste	39.5		
40.0	41.0	1	40	Dry Consolidated Waste			
				Dry Consolidated Waste	40.5		
41.0	42.0	1	41	Dry Consolidated Waste			
				Dry Consolidated Waste	41.5		
42.0	43.0	1	42	Dry Consolidated Waste		Damp Waste	J.N. 27
				Dry Consolidated Waste	42.5		
43.0	44.0	1	43	Damp Consolidated Waste			
				Damp Consolidated Waste	43.5		
44.0	45.0	1	44	Damp Consolidated Waste			
				Damp Consolidated Waste	44.5		
45.0	46.0	1	45	Damp Consolidated Waste			
				Damp Consolidated Waste	45.5		
46.0	47.0	1	46				
					46.5		
47.0	48.0	1	47				
					47.5		
48.0	49.0	1	48				
					48.5		
49.0	50.0	1	49				
					49.5		
50.0	51.0	1	50				
					50.5		
51.0	52.0	1	51				
					51.5		
52.0	53.0	1	52				
					52.5		
53.0	54.0	1	53				
					53.5		
54.0	55.0	1	54				
					54.5		
55.0	56.0	1	55				
					55.5		
56.0	57.0	1	56				
					56.5		
57.0	58.0	1	57				
					57.5		
58.0	59.0	1	58				
					58.5		
59.0	60.0	1	59				
					59.5		
60.0	61.0	1	60				
					60.5		
61.0	62.0	1	61				
					61.5		
62.0	63.0	1	62				
					62.5		
63.0	64.0	1	63				
					63.5		
64.0	65.0	1	64				
					64.5		

DRILLING REPORT						Well Number: PW 17R2	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 13-14.05.2015			Installation Details			Target Depth (m): 44.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 44.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 39.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 41.00				
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	GL
0.0	1.0			Damp Mixed Mixed Waste	0.5	Damp Waste	Bentonite
1.0	2.0	1	1	Damp Mixed Mixed Waste	1.5		
2.0	3.0	1	2	Damp Mixed Mixed Waste	2.5		
3.0	4.0	1	3	Damp Mixed Mixed Waste	3.5		
4.0	5.0	1	4	Wet Consolidated Waste	4.5		
5.0	6.0	1	5	Wet Consolidated Waste	5.5	Wet Waste	J.N 72
6.0	7.0	1	6	Wet Consolidated Waste	6.5		
7.0	8.0	1	7	Dry Consolidated Waste	7.5		
8.0	9.0	1	8	Dry Consolidated Waste	8.5		
9.0	10.0	1	9	Dry Consolidated Waste	9.5		
10.0	11.0	1	10	Dry Consolidated Waste	10.5	Dry Waste	J.N 73
11.0	12.0	1	11	Dry Consolidated Waste	11.5		
12.0	13.0	1	12	Dry Consolidated Waste	12.5		
13.0	14.0	1	13	Dry Consolidated Waste	13.5		
14.0	15.0	1	14	Dry Consolidated Waste	14.5		
15.0	16.0	1	15	Dry Consolidated Waste	15.5		
16.0	17.0	1	16	Dry Consolidated Waste	16.5		
17.0	18.0	1	17	Dry Consolidated Waste	17.5		
18.0	19.0	1	18	Dry Consolidated Waste	18.5		
19.0	20.0	1	19	Dry Consolidated Waste	19.5		
20.0	21.0	1	20	Dry Consolidated Waste	20.5		
21.0	22.0	1	21	Dry Consolidated Waste	21.5		
22.0	23.0	1	22	Dry Consolidated Waste	22.5		
23.0	24.0	1	23	Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste	25.5		
26.0	27.0	1	26	Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste	28.5		
29.0	30.0	1	29	Dry Consolidated Waste	29.5		
30.0	31.0	1	30	Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 17R2	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 13-14.05.2015			Installation Details			Target Depth (m): 44.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 44.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 39.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm		
			Gravel (m): 41.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0	33.0	1	32	Dry Consolidated Waste		Dry Waste	J.N. 77 20/40 Gravel
				Dry Consolidated Waste	32.5		
33.0	34.0	1	33	Dry Consolidated Waste			
				Dry Consolidated Waste	33.5		
34.0	35.0	1	34	Dry Consolidated Waste			
				Dry Consolidated Waste	34.5		
35.0	36.0	1	35	Dry Consolidated Waste			
				Dry Consolidated Waste	35.5		
36.0	37.0	1	36	Dry Consolidated Waste			
				Dry Consolidated Waste	36.5		
37.0	38.0	1	37	Dry Consolidated Waste			
				Dry Consolidated Waste	37.5		
38.0	39.0	1	38	Dry Consolidated Waste			
				Dry Consolidated Waste	38.5		
39.0	40.0	1	39	Damp Consolidated Waste			
				Damp Consolidated Waste	39.5		
40.0	41.0	1	40	Damp Consolidated Waste			
				Damp Consolidated Waste	40.5		
41.0	42.0	1	41	Damp Consolidated Waste			
				Damp Consolidated Waste	41.5		
42.0	43.0	1	42	Damp Consolidated Waste			
				Damp Consolidated Waste	42.5		
43.0	44.0	1	43	Damp Consolidated Waste			
				Damp Consolidated Waste	43.5		
44.0	45.0	1	44		44.5		
					45.5		
45.0	46.0	1	45		46.5		
					47.5		
46.0	47.0	1	46		48.5		
					49.5		
47.0	48.0	1	47		50.5		
					51.5		
48.0	49.0	1	48		52.5		
					53.5		
49.0	50.0	1	49		54.5		
					55.5		
50.0	51.0	1	50		56.5		
					57.5		
51.0	52.0	1	51		58.5		
					59.5		
52.0	53.0	1	52		60.5		
					61.5		
53.0	54.0	1	53		62.5		
					63.5		
54.0	55.0	1	54		64.5		
55.0	56.0	1	55				
56.0	57.0	1	56				
57.0	58.0	1	57				
58.0	59.0	1	58				
59.0	60.0	1	59				
60.0	61.0	1	60				
61.0	62.0	1	61				
62.0	63.0	1	62				
63.0	64.0	1	63				
64.0	65.0	1	64				

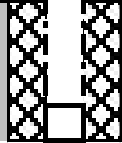
DRILLING REPORT						Well Number: PW 121	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 14-15.05.2015			Installation Details			Target Depth (m): 35.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 35.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 30.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 32.00				
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	GL
0.0	1.0	1	1	Damp Mixed Waste	0.5	Dry Waste	Bentonite
1.0	2.0	1	2	Damp Mixed Waste	1.5		
2.0	3.0	1	3	Damp Mixed Waste	2.5		
3.0	4.0	1	4	Damp Mixed Waste	3.5		
4.0	5.0	1	5	Wet Consolidated Waste	4.5		
5.0	6.0	1	6	Wet Consolidated Waste	5.5	Wet Waste	J.N 66
6.0	7.0	1	7	Wet Consolidated Waste	6.5		
7.0	8.0	1	8	Damp Consolidated Waste	7.5	Damp Waste	
8.0	9.0	1	9	Damp Consolidated Waste	8.5		
9.0	10.0	1	10	Damp Consolidated Waste	9.5		
10.0	11.0	1	11	Dry Consolidated Waste	10.5	Dry Waste	J.N 67
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	Dry Consolidated Waste	14.5		
15.0	16.0	1	16	Dry Consolidated Waste	15.5		
16.0	17.0	1	17	Dry Consolidated Waste	16.5		
17.0	18.0	1	18	Dry Consolidated Waste	17.5		
18.0	19.0	1	19	Dry Consolidated Waste	18.5		
19.0	20.0	1	20	Dry Consolidated Waste	19.5		
20.0	21.0	1	21	Dry Consolidated Waste	20.5		
21.0	22.0	1	22	Dry Consolidated Waste	21.5		
22.0	23.0	1	23	Dry Consolidated Waste	22.5		
23.0	24.0	1	24	Dry Consolidated Waste	23.5		
24.0	25.0	1	25	Dry Consolidated Waste	24.5		
25.0	26.0	1	26	Dry Consolidated Waste	25.5		
26.0	27.0	1	27	Dry Consolidated Waste	26.5		
27.0	28.0	1	28	Dry Consolidated Waste	27.5		
28.0	29.0	1	29	Dry Consolidated Waste	28.5		
29.0	30.0	1	30	Dry Consolidated Waste	29.5		
30.0	31.0	1	31	Dry Consolidated Waste	30.5		
31.0	32↓	1	32	Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 121	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 14-15.05.2015			Installation Details			Target Depth (m): 35.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 35.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 30.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm		
			Gravel (m): 32.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0	33.0	1	32	Damp Consolidated Waste	32.5	Damp Waste	
33.0	34.0	1	33	Damp Consolidated Waste	33.5		
34.0	35.0	1	34	Damp Consolidated Waste	34.5		
35.0	36.0	1	35	Damp Consolidated Waste	35.5		
36.0	37.0	1	36	Damp Consolidated Waste	36.5		
37.0	38.0	1	37	Damp Consolidated Waste	37.5		
38.0	39.0	1	38		38.5	J.N. 71	
39.0	40.0	1	39		39.5		
40.0	41.0	1	40		40.5		
41.0	42.0	1	41		41.5		
42.0	43.0	1	42		42.5		
43.0	44.0	1	43		43.5		
44.0	45.0	1	44		44.5		
45.0	46.0	1	45		45.5		
46.0	47.0	1	46		46.5		
47.0	48.0	1	47		47.5		
48.0	49.0	1	48		48.5		
49.0	50.0	1	49		49.5		
50.0	51.0	1	50		50.5		
51.0	52.0	1	51		51.5		
52.0	53.0	1	52		52.5		
53.0	54.0	1	53		53.5		
54.0	55.0	1	54		54.5		
55.0	56.0	1	55		55.5		
56.0	57.0	1	56		56.5		
57.0	58.0	1	57		57.5		
58.0	59.0	1	58		58.5		
59.0	60.0	1	59		59.5		
60.0	61.0	1	60		60.5		
61.0	62.0	1	61		61.5		
62.0	63.0	1	62		62.5		
63.0	64.0	1	63		63.5		
64.0	65.0	1	64		64.5		

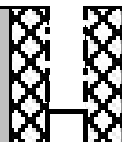
DRILLING REPORT						Well Number: PW 80R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 18.05.2015			Installation Details			Target Depth (m): 20.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 20.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 15.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160mm		
			Gravel (m): 17.00				
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	GL
0.0			0	Clay/Soils		Clay/Soil	
	1.0			Clay/Soils	0.5		LLDPE CAP 1m BGL
1.0		1	1	Clay/Soils			
	2.0			Clay/Soils	1.5		Hydrated Bentonite
2.0		1	2	Damp Consolidated Waste			
	3.0			Damp Consolidated Waste	2.5		
3.0		1	3	Damp Consolidated Waste			
	4.0			Damp Consolidated Waste	3.5		
4.0		1	4	Damp Consolidated Waste			
	5.0			Damp Consolidated Waste	4.5		J.N 38
5.0		1	5	Damp Consolidated Waste			
	6.0			Damp Consolidated Waste	5.5		
6.0		1	6	Damp Consolidated Waste			
	7.0			Damp Consolidated Waste	6.5		
7.0		1	7	Damp Consolidated Waste			
	8.0			Damp Consolidated Waste	7.5	Damp Waste	
8.0		1	8	Damp Consolidated Waste			
	9.0			Damp Consolidated Waste	8.5		
9.0		1	9	Damp Consolidated Waste			20/40 Gravel
	10.0			Damp Consolidated Waste	9.5		
10.0		1	10	Damp Consolidated Waste			J.N 39
	11.0			Damp Consolidated Waste	10.5		
11.0		1	11	Damp Consolidated Waste			
	12.0			Damp Consolidated Waste	11.5		
12.0		1	12	Wet Consolidated Waste		Wet Waste	
	13.0			Wet Consolidated Waste	12.5		
13.0		1	13	Dry Consolidated Waste			
	14.0			Dry Consolidated Waste	13.5		
14.0		1	14	Dry Consolidated Waste			
	15.0			Dry Consolidated Waste	14.5		
15.0		1	15	Dry Consolidated Waste			
	16.0			Dry Consolidated Waste	15.5		
16.0		1	16	Dry Consolidated Waste		Dry Waste	
	17.0			Dry Consolidated Waste	16.5		J.N. 40
17.0		1	17	Dry Consolidated Waste			
	18.0			Dry Consolidated Waste	17.5		
18.0		1	18	Dry Consolidated Waste			
	19.0			Dry Consolidated Waste	18.5		
19.0		1	19	Dry Consolidated Waste			J.N. 41
	20.0			Dry Consolidated Waste	19.5		
20.0		1	20				
	21.0				20.5		
21.0		1	21				
	22.0				21.5		
22.0		1	22				
	23.0				22.5		
23.0		1	23				
	24.0				23.5		
24.0		1	24				
	25.0				24.5		
25.0		1	25				
	26.0				25.5		
26.0		1	26				
	27.0				26.5		
27.0		1	27				
	28.0				27.5		
28.0		1	28				
	29.0				28.5		
29.0		1	29				
	30.0				29.5		
30.0		1	30				
	31.0				30.5		
31.0		1	31				
	32↓				31.5		

DRILLING REPORT						Well Number: PW 81R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 18.05.2015			Installation Details			Target Depth (m): 13.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 13.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 8.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160mm		
			Gravel (m): 10.00				
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	GL
0.0			0	Clay/Soils		Clay/Soil	
	1.0			Clay/Soils	0.5		LLDPE CAP 1m BGL
1.0		1	1	Clay/Soils			
	2.0			Clay/Soils	1.5		Hydrated Bentonite
2.0		1	2	Damp Consolidated Waste			
	3.0			Damp Consolidated Waste	2.5		
3.0		1	3	Damp Consolidated Waste			
	4.0			Damp Consolidated Waste	3.5		
4.0		1	4	Damp Consolidated Waste			
	5.0			Damp Consolidated Waste	4.5		J.N 42
5.0		1	5	Damp Consolidated Waste			
	6.0			Damp Consolidated Waste	5.5		
6.0		1	6	Damp Consolidated Waste			
	7.0			Damp Consolidated Waste	6.5		
7.0		1	7	Damp Consolidated Waste			
	8.0			Damp Consolidated Waste	7.5	Damp Waste	
8.0		1	8	Damp Consolidated Waste			
	9.0			Damp Consolidated Waste	8.5		
9.0		1	9	Damp Consolidated Waste			20/40 Gravel
	10.0			Damp Consolidated Waste	9.5		
10.0		1	10	Damp Consolidated Waste			J.N 43
	11.0			Damp Consolidated Waste	10.5		
11.0		1	11	Wet Consolidated Waste			
	12.0			Wet Consolidated Waste	11.5		
12.0		1	12	Wet Consolidated Waste		Wet Waste	J.N 44
	13.0			Wet Consolidated Waste	12.5		
13.0		1	13				
	14.0				13.5		
14.0		1	14				
	15.0				14.5		
15.0		1	15				
	16.0				15.5		
16.0		1	16				
	17.0				16.5		
17.0		1	17				
	18.0				17.5		
18.0		1	18				
	19.0				18.5		
19.0		1	19				
	20.0				19.5		
20.0		1	20				
	21.0				20.5		
21.0		1	21				
	22.0				21.5		
22.0		1	22				
	23.0				22.5		
23.0		1	23				
	24.0				23.5		
24.0		1	24				
	25.0				24.5		
25.0		1	25				
	26.0				25.5		
26.0		1	26				
	27.0				26.5		
27.0		1	27				
	28.0				27.5		
28.0		1	28				
	29.0				28.5		
29.0		1	29				
	30.0				29.5		
30.0		1	30				
	31.0				30.5		
31.0		1	31				
	32↓				31.5		

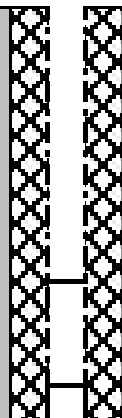
DRILLING REPORT						Well Number: PW 73R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 18-19.05.2015			Installation Details			Target Depth (m): 34.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 34.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 29.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 31.00				
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	GL
0.0	1.0			Clay/Soils	0.5	Clay/Soils	LLDPE CAP 1 m BGL
1.0	2.0	1	1	Clay/Soils	1.5		Bentonite
2.0	3.0	1	2	Damp Consolidated Waste	2.5		
3.0	4.0	1	3	Damp Consolidated Waste	3.5		
4.0	5.0	1	4	Damp Consolidated Waste	4.5	Damp Waste	J.N. 46
5.0	6.0	1	5	Damp Consolidated Waste	5.5		
6.0	7.0	1	6	Damp Consolidated Waste	6.5		
7.0	8.0	1	7	Damp Consolidated Waste	7.5		20/40 Gravel
8.0	9.0	1	8	Wet Consolidated Waste	8.5	Wet Waste	
9.0	10.0	1	9	Wet Consolidated Waste	9.5		
10.0	11.0	1	10	Wet Consolidated Waste	10.5		J.N. 47
11.0	12.0	1	11	Damp Consolidated Waste	11.5		
12.0	13.0	1	12	Damp Consolidated Waste	12.5		
13.0	14.0	1	13	Damp Consolidated Waste	13.5		
14.0	15.0	1	14	Damp Consolidated Waste	14.5	Damp Waste	
15.0	16.0	1	15	Damp Consolidated Waste	15.5		
16.0	17.0	1	16	Damp Consolidated Waste	16.5		J.N. 48
17.0	18.0	1	17	Damp Consolidated Waste	17.5		
18.0	19.0	1	18	Damp Consolidated Waste	18.5		
19.0	20.0	1	19	Damp Consolidated Waste	19.5		
20.0	21.0	1	20	Damp Consolidated Waste	20.5		
21.0	22.0	1	21	Dry Consolidated Waste	21.5		
22.0	23.0	1	22	Dry Consolidated Waste	22.5		J.N. 49
23.0	24.0	1	23	Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste	25.5		
26.0	27.0	1	26	Dry Consolidated Waste	26.5	Dry Waste	
27.0	28.0	1	27	Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste	28.5		J.N. 50
29.0	30.0	1	29	Dry Consolidated Waste	29.5		
30.0	31.0	1	30	Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 73R		
CQA INSPECTOR:- Maciej Turkowski								
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS		
Date: 18-19.05.2015			Installation Details			Target Depth (m): 34.00		
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.30		Actual Depth (m): 34.00			
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):			
Auger Dimensions: 350mm			Perforated BGL (m): 29.00		Dip Level (mBGL) after 24hrs:			
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm			
			Gravel (m): 31.00					
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA		
			m		m			
32.0	33.0	1	32	Dry Consolidated Waste		Dry Waste	 J.N. 51	
				Dry Consolidated Waste	32.5			
33.0	34.0	1	33	Dry Consolidated Waste				
				Dry Consolidated Waste	33.5			
34.0	35.0	1	34					
					34.5			
35.0	36.0	1	35					
					35.5			
36.0	37.0	1	36					
					36.5			
37.0	38.0	1	37					
					37.5			
38.0	39.0	1	38					
					38.5			
39.0	40.0	1	39					
					39.5			
40.0	41.0	1	40					
					40.5			
41.0	42.0	1	41					
					41.5			
42.0	43.0	1	42					
					42.5			
43.0	44.0	1	43					
					43.5			
44.0	45.0	1	44					
					44.5			
45.0	46.0	1	45					
					45.5			
46.0	47.0	1	46					
					46.5			
47.0	48.0	1	47					
					47.5			
48.0	49.0	1	48					
					48.5			
49.0	50.0	1	49					
					49.5			
50.0	51.0	1	50					
					50.5			
51.0	52.0	1	51					
					51.5			
52.0	53.0	1	52					
					52.5			
53.0	54.0	1	53					
					53.5			
54.0	55.0	1	54					
					54.5			
55.0	56.0	1	55					
					55.5			
56.0	57.0	1	56					
					56.5			
57.0	58.0	1	57					
					57.5			
58.0	59.0	1	58					
					58.5			
59.0	60.0	1	59					
					59.5			
60.0	61.0	1	60					
					60.5			
61.0	62.0	1	61					
					61.5			
62.0	63.0	1	62					
					62.5			
63.0	64.0	1	63					
					63.5			
64.0	65.0	1	64					
					64.5			

DRILLING REPORT						Well Number: PW 93R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 19.05.2015			Installation Details			Target Depth (m): 34.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 34.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 29.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160mm		
			Gravel (m): 31.00				
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	GL
0.0	1.0		0	Clay/Soils		Clay/Soils	LLDPE CAP 0.8 m BGL Bentonite
1.0	2.0	1	1	Clay/Soils	0.5		
				Clay/Soils			
				Clay/Soils	1.5		
2.0	3.0	1	2	Damp Consolidated Waste		Damp Waste	J.N. 95
				Damp Consolidated Waste	2.5		
3.0	4.0	1	3	Damp Consolidated Waste			
				Damp Consolidated Waste	3.5		
4.0	5.0	1	4	Damp Consolidated Waste			
				Damp Consolidated Waste	4.5		
5.0	6.0	1	5	Damp Consolidated Waste		Wet Waste	
				Damp Consolidated Waste	5.5		
6.0	7.0	1	6	Damp Consolidated Waste			
				Damp Consolidated Waste	6.5		
7.0	8.0	1	7	Wet Consolidated Waste		Wet Waste	
				Wet Consolidated Waste	7.5		
8.0	9.0	1	8	Wet Consolidated Waste			
				Wet Consolidated Waste	8.5		
9.0	10.0	1	9	Damp Consolidated Waste		Damp Waste	J.N. 96
				Damp Consolidated Waste	9.5		
10.0	11.0	1	10	Damp Consolidated Waste			
				Damp Consolidated Waste	10.5		
11.0	12.0	1	11	Damp Consolidated Waste			
				Damp Consolidated Waste	11.5		
12.0	13.0	1	12	Damp Consolidated Waste		20/40 Gravel	
				Damp Consolidated Waste	12.5		
13.0	14.0	1	13	Damp Consolidated Waste			
				Damp Consolidated Waste	13.5		
14.0	15.0	1	14	Dry Consolidated Waste		Dry Waste	J.N. 97
				Dry Consolidated Waste	14.5		
15.0	16.0	1	15	Dry Consolidated Waste			
				Dry Consolidated Waste	15.5		
16.0	17.0	1	16	Dry Consolidated Waste			
				Dry Consolidated Waste	16.5		
17.0	18.0	1	17	Dry Consolidated Waste		J.N. 98	
				Dry Consolidated Waste	17.5		
18.0	19.0	1	18	Dry Consolidated Waste			
				Dry Consolidated Waste	18.5		
19.0	20.0	1	19	Dry Consolidated Waste		J.N. 99	
				Dry Consolidated Waste	19.5		
20.0	21.0	1	20	Dry Consolidated Waste			
				Dry Consolidated Waste	20.5		
21.0	22.0	1	21	Dry Consolidated Waste			
				Dry Consolidated Waste	21.5		
22.0	23.0	1	22	Dry Consolidated Waste		Dry Waste	J.N. 98
				Dry Consolidated Waste	22.5		
23.0	24.0	1	23	Dry Consolidated Waste			
				Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste		Dry Waste	J.N. 99
				Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste			
				Dry Consolidated Waste	25.5		
26.0	27.0	1	26	Dry Consolidated Waste			
				Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste			
				Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste			
				Dry Consolidated Waste	28.5		
29.0	30.0	1	29	Dry Consolidated Waste			
				Dry Consolidated Waste	29.5		
30.0	31.0	1	30	Dry Consolidated Waste			
				Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste			
				Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 93R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 19.05.2015		Installation Details				Target Depth (m): 34.00	
Drilling Rig type: Comacchio MC3000s		Solid AGL (m): 1.00		Actual Depth (m): 34.00			
Extruder Dimensions: 350mm		Solid BGL (m): 5.00		Dip Level (mBGL):			
Auger Dimensions: 350mm		Perforated BGL (m): 29.00		Dip Level (mBGL) after 24hrs:			
Casing Dimensions:		Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm			
		Gravel (m): 31.00					
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0		1	32	Dry Consolidated Waste Dry Consolidated Waste Dry Consolidated Waste Dry Consolidated Waste		Dry Waste	 J.N. 100
	33.0				32.5		
33.0		1	33				
	34.0				33.5		
34.0		1	34				
	35.0				34.5		
35.0		1	35				
	36.0				35.5		
36.0		1	36				
	37.0				36.5		
37.0		1	37				
	38.0				37.5		
38.0		1	38				
	39.0				38.5		
39.0		1	39				
	40.0				39.5		
40.0		1	40				
	41.0				40.5		
41.0		1	41				
	42.0				41.5		
42.0		1	42				
	43.0				42.5		
43.0		1	43				
	44.0				43.5		
44.0		1	44				
	45.0				44.5		
45.0		1	45				
	46.0				45.5		
46.0		1	46				
	47.0				46.5		
47.0		1	47				
	48.0				47.5		
48.0		1	48				
	49.0				48.5		
49.0		1	49				
	50.0				49.5		
50.0		1	50				
	51.0				50.5		
51.0		1	51				
	52.0				51.5		
52.0		1	52				
	53.0				52.5		
53.0		1	53				
	54.0				53.5		
54.0		1	54				
	55.0				54.5		
55.0		1	55				
	56.0				55.5		
56.0		1	56				
	57.0				56.5		
57.0		1	57				
	58.0				57.5		
58.0		1	58				
	59.0				58.5		
59.0		1	59				
	60.0				59.5		
60.0		1	60				
	61.0				60.5		
61.0		1	61				
	62.0				61.5		
62.0		1	62				
	63.0				62.5		
63.0		1	63				
	64.0				63.5		
64.0		1	64				
	65.0				64.5		

DRILLING REPORT						Well Number: PW 91R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 20.05.2015			Installation Details			Target Depth (m): 38.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 38.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 33.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 35.00				
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	GL
0.0	1.0			Clay/Soils	0.5	Clay/Soils	LLDPE CAP 1.5 m BGL
1.0	2.0	1	1	Clay/Soils	1.5		Bentonite
2.0	3.0	1	2	Damp Consolidated Waste	2.5		
3.0	4.0	1	3	Damp Consolidated Waste	3.5		
4.0	5.0	1	4	Damp Consolidated Waste	4.5	Damp Waste	J.N. 52
5.0	6.0	1	5	Damp Consolidated Waste	5.5		
6.0	7.0	1	6	Damp Consolidated Waste	6.5		
7.0	8.0	1	7	Damp Consolidated Waste	7.5		
8.0	9.0	1	8	Damp Consolidated Waste	8.5		
9.0	10.0	1	9	Damp Consolidated Waste	9.5		
10.0	11.0	1	10	Wet Consolidated Waste	10.5	Wet Waste	J.N. 53
11.0	12.0	1	11	Wet Consolidated Waste	11.5		
12.0	13.0	1	12	Damp Consolidated Waste	12.5		20/40 Gravel
13.0	14.0	1	13	Damp Consolidated Waste	13.5		
14.0	15.0	1	14	Damp Consolidated Waste	14.5		
15.0	16.0	1	15	Damp Consolidated Waste	15.5		
16.0	17.0	1	16	Damp Consolidated Waste	16.5	Damp Waste	J.N. 54
17.0	18.0	1	17	Damp Consolidated Waste	17.5		
18.0	19.0	1	18	Damp Consolidated Waste	18.5		
19.0	20.0	1	19	Damp Consolidated Waste	19.5		
20.0	21.0	1	20	Damp Consolidated Waste	20.5		
21.0	22.0	1	21	Damp Consolidated Waste	21.5		
22.0	23.0	1	22	Damp Consolidated Waste	22.5		J.N. 55
23.0	24.0	1	23	Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste	25.5	Dry Waste	
26.0	27.0	1	26	Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste	28.5		J.N. 56
29.0	30.0	1	29	Dry Consolidated Waste	29.5		
30.0	31.0	1	30	Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste	31.5		

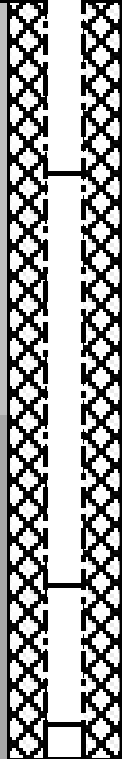
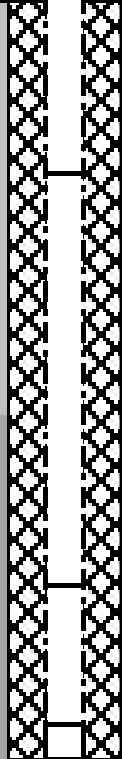
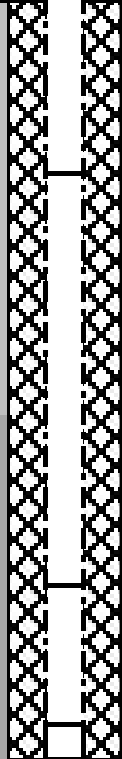
DRILLING REPORT						Well Number: PW 91R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 20.05.2015		Installation Details				Target Depth (m): 38.00	
Drilling Rig type: Comacchio MC3000s		Solid AGL (m): 1.00		Actual Depth (m): 38.00			
Extruder Dimensions: 350mm		Solid BGL (m): 5.00		Dip Level (mBGL):			
Auger Dimensions: 350mm		Perforated BGL (m): 33.00		Dip Level (mBGL) after 24hrs:			
Casing Dimensions:		Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm			
		Gravel (m): 35.00					
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0		1	32	Dry Consolidated Waste		Dry Waste	
	33.0			Dry Consolidated Waste	32.5		
33.0		1	33	Dry Consolidated Waste			
	34.0			Dry Consolidated Waste	33.5		
34.0		1	34	Dry Consolidated Waste			
	35.0			Dry Consolidated Waste	34.5		
35.0		1	35	Dry Consolidated Waste			
	36.0			Dry Consolidated Waste	35.5		
36.0		1	36	Dry Consolidated Waste			
	37.0			Dry Consolidated Waste	36.5		
37.0		1	37	Dry Consolidated Waste			
	38.0			Dry Consolidated Waste	37.5		
38.0		1	38		38.5		
	39.0						
39.0		1	39		39.5		
	40.0						
40.0		1	40		40.5		
	41.0						
41.0		1	41		41.5		
	42.0						
42.0		1	42		42.5		
	43.0						
43.0		1	43		43.5		
	44.0						
44.0		1	44		44.5		
	45.0						
45.0		1	45		45.5		
	46.0						
46.0		1	46		46.5		
	47.0						
47.0		1	47		47.5		
	48.0						
48.0		1	48		48.5		
	49.0						
49.0		1	49		49.5		
	50.0						
50.0		1	50		50.5		
	51.0						
51.0		1	51		51.5		
	52.0						
52.0		1	52		52.5		
	53.0						
53.0		1	53		53.5		
	54.0						
54.0		1	54		54.5		
	55.0						
55.0		1	55		55.5		
	56.0						
56.0		1	56		56.5		
	57.0						
57.0		1	57		57.5		
	58.0						
58.0		1	58		58.5		
	59.0						
59.0		1	59		59.5		
	60.0						
60.0		1	60		60.5		
	61.0						
61.0		1	61		61.5		
	62.0						
62.0		1	62		62.5		
	63.0						
63.0		1	63		63.5		
	64.0						
64.0		1	64		64.5		
	65.0						

DRILLING REPORT						Well Number: PW 010R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 20-21.05.2015			Installation Details			Target Depth (m): 34.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 34.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 29.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 31.00				
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	GL
0.0	1.0			Clay/Soils	0.5	Clay/Soils	LLDPE CAP 1.2 m BGL
1.0	2.0	1	1	Clay/Soils	1.5		Bentonite
2.0	3.0	1	2	Dry Consolidated Waste	2.5		
3.0	4.0	1	3	Dry Consolidated Waste	3.5		
4.0	5.0	1	4	Dry Consolidated Waste	4.5		
5.0	6.0	1	5	Dry Consolidated Waste	5.5	Dry Waste	J.N. 80
6.0	7.0	1	6	Dry Consolidated Waste	6.5		
7.0	8.0	1	7	Dry Consolidated Waste	7.5		
8.0	9.0	1	8	Dry Consolidated Waste	8.5		
9.0	10.0	1	9	Dry Consolidated Waste	9.5		
10.0	11.0	1	10	Dry Consolidated Waste	10.5		J.N. 81
11.0	12.0	1	11	Dry Consolidated Waste	11.5		
12.0	13.0	1	12	Wet Consolidated Waste	12.5	Wet Waste	
13.0	14.0	1	13	Wet Consolidated Waste	13.5		
14.0	15.0	1	14	Dry Consolidated Waste	14.5		20/40 Gravel
15.0	16.0	1	15	Dry Consolidated Waste	15.5		
16.0	17.0	1	16	Dry Consolidated Waste	16.5		J.N. 82
17.0	18.0	1	17	Dry Consolidated Waste	17.5		
18.0	19.0	1	18	Dry Consolidated Waste	18.5		
19.0	20.0	1	19	Dry Consolidated Waste	19.5		
20.0	21.0	1	20	Dry Consolidated Waste	20.5		
21.0	22.0	1	21	Dry Consolidated Waste	21.5		
22.0	23.0	1	22	Dry Consolidated Waste	22.5	Dry Waste	J.N. 83
23.0	24.0	1	23	Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste	25.5		
26.0	27.0	1	26	Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste	28.5		J.N. 84
29.0	30.0	1	29	Dry Consolidated Waste	29.5		
30.0	31.0	1	30	Dry Consolidated Waste	30.5		
31.0	32↓	1	31	Dry Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 010R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 20-21.05.2015			Installation Details			Target Depth (m): 34.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 34.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 29.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160 mm	
			Gravel (m): 31.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0	33.0	1	32	Dry Consolidated Waste	32.5	Dry Waste	J.N. 86
				Dry Consolidated Waste			
33.0	34.0	1	33	Dry Consolidated Waste	33.5		
				Dry Consolidated Waste			
34.0	35.0	1	34		34.5		
35.0	36.0	1	35		35.5		
36.0	37.0	1	36		36.5		
37.0	38.0	1	37		37.5		
38.0	39.0	1	38		38.5		
39.0	40.0	1	39		39.5		
40.0	41.0	1	40		40.5		
41.0	42.0	1	41		41.5		
42.0	43.0	1	42		42.5		
43.0	44.0	1	43		43.5		
44.0	45.0	1	44		44.5		
45.0	46.0	1	45		45.5		
46.0	47.0	1	46		46.5		
47.0	48.0	1	47		47.5		
48.0	49.0	1	48		48.5		
49.0	50.0	1	49		49.5		
50.0	51.0	1	50		50.5		
51.0	52.0	1	51		51.5		
52.0	53.0	1	52		52.5		
53.0	54.0	1	53		53.5		
54.0	55.0	1	54		54.5		
55.0	56.0	1	55		55.5		
56.0	57.0	1	56		56.5		
57.0	58.0	1	57		57.5		
58.0	59.0	1	58		58.5		
59.0	60.0	1	59		59.5		
60.0	61.0	1	60		60.5		
61.0	62.0	1	61		61.5		
62.0	63.0	1	62		62.5		
63.0	64.0	1	63		63.5		
64.0	65.0	1	64		64.5		

DRILLING REPORT						Well Number: PW 120	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 21.05.2015			Installation Details			Target Depth (m): 30.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 30.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 25.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 27.00				
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	GL
0.0	1.0	1	1	Damp Consolidated Waste	0.5	Damp Waste	Hydrated Bentonite
1.0	2.0	1	2	Damp Consolidated Waste	1.5		
2.0	3.0	1	3	Damp Consolidated Waste	2.5		
3.0	4.0	1	4	Damp Consolidated Waste	3.5		
4.0	5.0	1	5	Damp Consolidated Waste	4.5		J.N 59
5.0	6.0	1	6	Wet Consolidated Waste	5.5	Wet Waste	
6.0	7.0	1	7	Damp Consolidated Waste	6.5		
7.0	8.0	1	8	Damp Consolidated Waste	7.5	Damp Waste	
8.0	9.0	1	9	Damp Consolidated Waste	8.5		
9.0	10.0	1	10	Damp Consolidated Waste	9.5		20/40 Gravel
10.0	11.0	1	11	Damp Consolidated Waste	10.5		J.N 60
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	Dry Waste	
14.0	15.0	1	15	Dry Consolidated Waste	14.5		
15.0	16.0	1	16	Dry Consolidated Waste	15.5		
16.0	17.0	1	17	Dry Consolidated Waste	16.5		J.N. 61
17.0	18.0	1	18	Dry Consolidated Waste	17.5		
18.0	19.0	1	19	Dry Consolidated Waste	18.5		
19.0	20.0	1	20	Dry Consolidated Waste	19.5		
20.0	21.0	1	21	Dry Consolidated Waste	20.5		
21.0	22.0	1	22	Dry Consolidated Waste	21.5		
22.0	23.0	1	23	Dry Consolidated Waste	22.5		J.N. 62
23.0	24.0	1	24	Dry Consolidated Waste	23.5		
24.0	25.0	1	25	Dry Consolidated Waste	24.5		
25.0	26.0	1	26	Damp Consolidated Waste	25.5		
26.0	27.0	1	27	Damp Consolidated Waste	26.5	Damp Waste	
27.0	28.0	1	28	Damp Consolidated Waste	27.5		
28.0	29.0	1	29	Damp Consolidated Waste	28.5		
29.0	30.0	1	30	Damp Consolidated Waste	29.5		J.N. 63
30.0	31.0	1	31		30.5		
31.0	32↓	1	31		31.5		

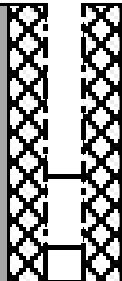
DRILLING REPORT						Well Number: PW 43R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 21-22.05.2015			Installation Details			Target Depth (m): 44.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 2.30			Actual Depth (m): 42.70	
Extruder Dimensions: 350mm			Solid BGL (m): 3.70			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 39.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 39.70				
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	GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste	Hydrated Bentonite
1.0	2.0	1	2	Damp Consolidated Waste	1.5		
2.0	3.0	1	3	Damp Consolidated Waste	2.5		
3.0	4.0	1	4	Damp Consolidated Waste	3.5	Damp Waste	J.N.87
4.0	5.0	1	5	Wet Consolidated Waste	4.5		
5.0	6.0	1	6	Wet Consolidated Waste	5.5		
6.0	7.0	1	7	Wet Consolidated Waste	6.5	Wet Waste	J.N. 88
7.0	8.0	1	8	Damp Consolidated Waste	7.5		
8.0	9.0	1	9	Damp Consolidated Waste	8.5		
9.0	10.0	1	10	Damp Consolidated Waste	9.5	Damp Waste	J.N. 88
10.0	11.0	1	11	Damp Consolidated Waste	10.5		
11.0	12.0	1	12	Damp Consolidated Waste	11.5		
12.0	13.0	1	13	Dry Consolidated Waste	12.5	Dry Waste	20/40 Gravel
13.0	14.0	1	14	Dry Consolidated Waste	13.5		
14.0	15.0	1	15	Dry Consolidated Waste	14.5		
15.0	16.0	1	16	Dry Consolidated Waste	15.5	Dry Waste	J.N. 89
16.0	17.0	1	17	Dry Consolidated Waste	16.5		
17.0	18.0	1	18	Dry Consolidated Waste	17.5		
18.0	19.0	1	19	Dry Consolidated Waste	18.5	Dry Waste	J.N. 90
19.0	20.0	1	20	Dry Consolidated Waste	19.5		
20.0	21.0	1	21	Dry Consolidated Waste	20.5		
21.0	22.0	1	22	Dry Consolidated Waste	21.5	Dry Waste	J.N. 91
22.0	23.0	1	23	Dry Consolidated Waste	22.5		
23.0	24.0	1	24	Dry Consolidated Waste	23.5		
24.0	25.0	1	25	Dry Consolidated Waste	24.5	Dry Waste	J.N. 91
25.0	26.0	1	26	Dry Consolidated Waste	25.5		
26.0	27.0	1	27	Dry Consolidated Waste	26.5		
27.0	28.0	1	28	Dry Consolidated Waste	27.5	Dry Waste	J.N. 91
28.0	29.0	1	29	Dry Consolidated Waste	28.5		
29.0	30.0	1	30	Dry Consolidated Waste	29.5		
30.0	31.0	1	31	Dry Consolidated Waste	30.5	Dry Waste	J.N. 91
31.0	32↓	1	31	Dry Consolidated Waste	31.5		
				Dry Consolidated Waste			

DRILLING REPORT						Well Number:		PW 43R	
CQA INSPECTOR:- Maciej Turkowski									
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS			
Date: 21-22.05.2015			Installation Details			Target Depth (m): 44.00			
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 2.30		Actual Depth (m): 42.70				
Extruder Dimensions: 350mm			Solid BGL (m): 3.70		Dip Level (mBGL):				
Auger Dimensions: 350mm			Perforated BGL (m): 39.00		Dip Level (mBGL) after 24hrs:				
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160 mm				
			Gravel (m): 39.70						
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA			
			m		m				
32.0		1	32	Dry Consolidated Waste		Dry Waste		J.N. 92	
	33.0			Dry Consolidated Waste	32.5				
33.0		1	33	Dry Consolidated Waste					
	34.0			Dry Consolidated Waste	33.5				
34.0		1	34	Dry Consolidated Waste					
	35.0			Dry Consolidated Waste	34.5				
35.0		1	35	Dry Consolidated Waste					
	36.0			Dry Consolidated Waste	35.5				
36.0		1	36	Dry Consolidated Waste					
	37.0			Dry Consolidated Waste	36.5				
37.0		1	37	Dry Consolidated Waste					
	38.0			Dry Consolidated Waste	37.5	Damp Waste		J.N. 93	
38.0		1	38	Damp Consolidated Waste					
	39.0			Damp Consolidated Waste	38.5				
39.0		1	39	Damp Consolidated Waste					
	40.0			Damp Consolidated Waste	39.5				
40.0		1	40	Damp Consolidated Waste					
	41.0			Damp Consolidated Waste	40.5				
41.0		1	41	Damp Consolidated Waste					
	42.0			Damp Consolidated Waste	41.5				
42.0		1	42	Damp Consolidated Waste					
	43.0			Damp Consolidated Waste	42.5			J.N. 94	
43.0		1	43						
	44.0				43.5				
44.0		1	44						
	45.0				44.5				
45.0		1	45						
	46.0				45.5				
46.0		1	46						
	47.0				46.5				
47.0		1	47						
	48.0				47.5				
48.0		1	48						
	49.0				48.5				
49.0		1	49						
	50.0				49.5				
50.0		1	50						
	51.0				50.5				
51.0		1	51						
	52.0				51.5				
52.0		1	52						
	53.0				52.5				
53.0		1	53						
	54.0				53.5				
54.0		1	54						
	55.0				54.5				
55.0		1	55						
	56.0				55.5				
56.0		1	56						
	57.0				56.5				
57.0		1	57						
	58.0				57.5				
58.0		1	58						
	59.0				58.5				
59.0		1	59						
	60.0				59.5				
60.0		1	60						
	61.0				60.5				
61.0		1	61						
	62.0				61.5				
62.0		1	62						
	63.0				62.5				
63.0		1	63						
	64.0				63.5				
64.0		1	64						
	65.0				64.5				

DRILLING REPORT						Well Number: PW 25R2	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 22.05.2015			Installation Details			Target Depth (m): 28.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00		Actual Depth (m): 28.00		
Extruder Dimensions: 350mm			Solid BGL (m): 5.00		Dip Level (mBGL):		
Auger Dimensions: 350mm			Perforated BGL (m): 23.00		Dip Level (mBGL) after 24hrs:		
Casing Dimensions:			Bentonite (m): 3.00		HDPE Casing Dimensions: 160mm		
			Gravel (m): 25.00				
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	GL
0.0	1.0		0	Dry Consolidated Waste		Dry Waste	Hydrated Bentonite
				Dry Consolidated Waste	0.5		
1.0	2.0	1	1	Dry Consolidated Waste			
				Dry Consolidated Waste	1.5	Damp Waste	
2.0	3.0	1	2	Damp Consolidated Waste			
				Damp Consolidated Waste	2.5		
3.0	4.0	1	3	Damp Consolidated Waste		Damp Waste	
				Damp Consolidated Waste	3.5		
4.0	5.0	1	4	Damp Consolidated Waste			
				Damp Consolidated Waste	4.5	Wet Waste	J.N
5.0	6.0	1	5	Wet Consolidated Waste			
				Wet Consolidated Waste	5.5		
6.0	7.0	1	6	Damp Consolidated Waste		Damp Waste	
				Damp Consolidated Waste	6.5		
7.0	8.0	1	7	Damp Consolidated Waste			
				Damp Consolidated Waste	7.5	Damp Waste	
8.0	9.0	1	8	Damp Consolidated Waste			
				Damp Consolidated Waste	8.5		
9.0	10.0	1	9	Damp Consolidated Waste		Damp Waste	20/40 Gravel
				Damp Consolidated Waste	9.5		
10.0	11.0	1	10	Damp Consolidated Waste			
				Damp Consolidated Waste	10.5	Damp Waste	J.N
11.0	12.0	1	11	Damp Consolidated Waste			
				Damp Consolidated Waste	11.5		
12.0	13.0	1	12	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	12.5		
13.0	14.0	1	13	Dry Consolidated Waste			
				Dry Consolidated Waste	13.5	Dry Waste	
14.0	15.0	1	14	Dry Consolidated Waste			
				Dry Consolidated Waste	14.5		
15.0	16.0	1	15	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	15.5		
16.0	17.0	1	16	Dry Consolidated Waste			
				Dry Consolidated Waste	16.5	Dry Waste	J.N.
17.0	18.0	1	17	Dry Consolidated Waste			
				Dry Consolidated Waste	17.5		
18.0	19.0	1	18	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	18.5		
19.0	20.0	1	19	Dry Consolidated Waste			
				Dry Consolidated Waste	19.5	Dry Waste	
20.0	21.0	1	20	Dry Consolidated Waste			
				Dry Consolidated Waste	20.5		
21.0	22.0	1	21	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	21.5		
22.0	23.0	1	22	Dry Consolidated Waste			
				Dry Consolidated Waste	22.5	Dry Waste	J.N.
23.0	24.0	1	23	Dry Consolidated Waste			
				Dry Consolidated Waste	23.5		
24.0	25.0	1	24	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	24.5		
25.0	26.0	1	25	Dry Consolidated Waste			
				Dry Consolidated Waste	25.5	Dry Waste	J.N.
26.0	27.0	1	26	Dry Consolidated Waste			
				Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste		Dry Waste	
				Dry Consolidated Waste	27.5		
28.0	29.0	1	28	Dry Consolidated Waste			
					28.5	Joint Numbers rubbed off during moving pipe	
29.0	30.0	1	29		29.5		
					30.5		
30.0	31.0	1	30		31.5		
31.0	32↓	1	31				

DRILLING REPORT						Well Number: PW 21R	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 26-27.05.2015			Installation Details			Target Depth (m): 47.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 29.00	
Extruder Dimensions: 350mm			Solid BGL (m): 3.50			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 25.50			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 26.00				
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	GL
0.0	1.0			Dry Consolidated Waste	0.5	Dry Waste	Hydrated Bentonite
1.0	2.0	1	1	Dry Consolidated Waste	1.5		
2.0	3.0	1	2	Dry Consolidated Waste	2.5		
3.0	4.0	1	3	Wet Consolidated Waste	3.5		J.N. 1
4.0	5.0	1	4	Wet Consolidated Waste	4.5	Wet Waste	
5.0	6.0	1	5	Wet Consolidated Waste	5.5		
6.0	7.0	1	6	Wet Consolidated Waste	6.5		
7.0	8.0	1	7	Damp Consolidated Waste	7.5	Damp Waste	
8.0	9.0	1	8	Damp Consolidated Waste	8.5		J.N. 2
9.0	10.0	1	9	Damp Consolidated Waste	9.5		
10.0	11.0	1	10	Damp Consolidated Waste	10.5		
11.0	12.0	1	11	Damp Consolidated Waste	11.5		20/40 Gravel
12.0	13.0	1	12	Damp Consolidated Waste	12.5		
13.0	14.0	1	13	Damp Consolidated Waste	13.5		
14.0	15.0	1	14	Damp Consolidated Waste	14.5		
15.0	16.0	1	15	Damp Consolidated Waste	15.5		J.N. 3
16.0	17.0	1	16	Damp Consolidated Waste	16.5		
17.0	18.0	1	17	Damp Consolidated Waste	17.5		
18.0	19.0	1	18	Damp Consolidated Waste	18.5		
19.0	20.0	1	19	Damp Consolidated Waste	19.5		
20.0	21.0	1	20	Damp Consolidated Waste	20.5		J.N. 4
21.0	22.0	1	21	Damp Consolidated Waste	21.5		
22.0	23.0	1	22	Damp Consolidated Waste	22.5		
23.0	24.0	1	23	Damp Consolidated Waste	23.5		
24.0	25.0	1	24	Damp Consolidated Waste	24.5		
25.0	26.0	1	25	Damp Consolidated Waste	25.5	Dry Waste	
26.0	27.0	1	26	Dry Consolidated Waste	26.5		
27.0	28.0	1	27	Dry Consolidated Waste	27.5		J.N. 5
28.0	29.0	1	28	Dry Consolidated Waste	28.5		EF J.N 664
29.0	30.0	1	29	Dry Consolidated Waste	29.5		
30.0	31.0	1	30		30.5		
31.0	32↓	1	31		31.5		

DRILLING REPORT						Well Number: PW 2AR2	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 28-29.05.2015			Installation Details			Target Depth (m): 46.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 36.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 31.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160mm	
			Gravel (m): 33.00				
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	GL
0.0	1.0	1	1	Dry Consolidated Waste	0.5	Dry Waste	Hydrated Bentonite
1.0	2.0	1	2	Damp Consolidated Waste	1.5		
2.0	3.0	1	3	Damp Consolidated Waste	2.5		
3.0	4.0	1	4	Damp Consolidated Waste	3.5	Damp Waste	J.N 11
4.0	5.0	1	5	Damp Consolidated Waste	4.5		
5.0	6.0	1	6	Damp Consolidated Waste	5.5		
6.0	7.0	1	7	Damp Consolidated Waste	6.5	Wet Waste	J.N. 13
7.0	8.0	1	8	Wet Consolidated Waste	7.5		
8.0	9.0	1	9	Wet Consolidated Waste	8.5		
9.0	10.0	1	10	Wet Consolidated Waste	9.5	Damp Waste	20/40 Gravel
10.0	11.0	1	11	Damp Consolidated Waste	10.5		
11.0	12.0	1	12	Damp Consolidated Waste	11.5		
12.0	13.0	1	13	Damp Consolidated Waste	12.5	J.N. 14	J.N. 15
13.0	14.0	1	14	Damp Consolidated Waste	13.5		
14.0	15.0	1	15	Damp Consolidated Waste	14.5		
15.0	16.0	1	16	Damp Consolidated Waste	15.5	Damp Waste	J.N. 16
16.0	17.0	1	17	Damp Consolidated Waste	16.5		
17.0	18.0	1	18	Damp Consolidated Waste	17.5		
18.0	19.0	1	19	Damp Consolidated Waste	18.5	Wet Waste	
19.0	20.0	1	20	Damp Consolidated Waste	19.5		
20.0	21.0	1	21	Damp Consolidated Waste	20.5		
21.0	22.0	1	22	Damp Consolidated Waste	21.5	Damp Waste	
22.0	23.0	1	23	Damp Consolidated Waste	22.5		
23.0	24.0	1	24	Damp Consolidated Waste	23.5		
24.0	25.0	1	25	Damp Consolidated Waste	24.5	Wet Waste	
25.0	26.0	1	26	Damp Consolidated Waste	25.5		
26.0	27.0	1	27	Damp Consolidated Waste	26.5		
27.0	28.0	1	28	Damp Consolidated Waste	27.5	Damp Waste	
28.0	29.0	1	29	Wet Consolidated Waste	28.5		
29.0	30.0	1	30	Wet Consolidated Waste	29.5		
30.0	31.0	1	31	Damp Consolidated Waste	30.5	Damp Waste	
31.0	32↓	1	31	Damp Consolidated Waste	31.5		

DRILLING REPORT						Well Number: PW 2AR2	
CQA INSPECTOR:- Maciej Turkowski							
CLIENT: Infins Energy Services Ltd						Site: Chirk LFS	
Date: 28-29.05.2015			Installation Details			Target Depth (m): 46.00	
Drilling Rig type: Comacchio MC3000s			Solid AGL (m): 1.00			Actual Depth (m): 36.00	
Extruder Dimensions: 350mm			Solid BGL (m): 5.00			Dip Level (mBGL):	
Auger Dimensions: 350mm			Perforated BGL (m): 31.00			Dip Level (mBGL) after 24hrs:	
Casing Dimensions:			Bentonite (m): 3.00			HDPE Casing Dimensions: 160 mm	
			Gravel (m): 33.00				
Depth From (m)	Depth To (m)	Interval (m)	DESCRIPTION			STRATA	
			m		m		
32.0	33.0	1	32	Damp Consolidated Waste	32.5	Damp Waste	
				Damp Consolidated Waste			
33.0	34.0	1	33	Damp Consolidated Waste	33.5		
				Damp Consolidated Waste			
34.0	35.0	1	34	Damp Consolidated Waste	34.5		
				Damp Consolidated Waste			
35.0	36.0	1	35	Damp Consolidated Waste	35.5		
				Damp Consolidated Waste			
36.0	37.0	1	36	Damp Consolidated Waste	36.5		
37.0	38.0	1	37		37.5		
38.0	39.0	1	38		38.5		
39.0	40.0	1	39		39.5		
40.0	41.0	1	40		40.5		
41.0	42.0	1	41		41.5		
42.0	43.0	1	42		42.5		
43.0	44.0	1	43		43.5		
44.0	45.0	1	44		44.5		
45.0	46.0	1	45		45.5		
46.0	47.0	1	46		46.5		
47.0	48.0	1	47		47.5		
48.0	49.0	1	48		48.5		
49.0	50.0	1	49		49.5		
50.0	51.0	1	50		50.5		
51.0	52.0	1	51		51.5		
52.0	53.0	1	52		52.5		
53.0	54.0	1	53		53.5		
54.0	55.0	1	54		54.5		
55.0	56.0	1	55		55.5		
56.0	57.0	1	56		56.5		
57.0	58.0	1	57		57.5		
58.0	59.0	1	58		58.5		
59.0	60.0	1	59		59.5		
60.0	61.0	1	60		60.5		
61.0	62.0	1	61		61.5		
62.0	63.0	1	62		62.5		
63.0	64.0	1	63		63.5		
64.0	65.0	1	64		64.5		

Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

3. Photographic log

PHOTO LOG

Plate No.	Description
1	Drilling Rig
2	Installation of HDPE Pipework
3	Installation of 20/40 Gravel
4	Checking the depth of Gravel
5	Mixing of Bentonite outside of the borehole
6	Pouring of Bentonite into the borehole
7	Completed installation to Gas Well 21R

Plate 1



Plate 2



Plate 3



Plate 4



Plate 5



Plate 6



Plate 7



Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

4. Welding Logs.

Joint Record

www.jointmanager.com

Joint Status	DUMMY JOINT COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	1	
Reference	6892641	
Created	07/05/2015 10:26:08	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	8.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	11.1 (bar)
	Dynamic Drag	11.1 (bar)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[11.12]+17.0	28.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[11.12]+17.0	0.0
Cool Time (s)	600.0	0.0
Joint Simulated	Yes	
Final Bead OK	No	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	2	
Reference	6892642	
Created	07/05/2015 10:41:33	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	9°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	11.0 (bar)
	Dynamic Drag	11.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[11]+17.0	28.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[11]+17.0	28.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	3	
Reference	6892643	
Created	07/05/2015 11:02:23	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.1 (bar)
	Dynamic Drag	8.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[8.13]+17.0	24.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.13]+17.0	25.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	4	
Reference	6892644	
Created	07/05/2015 11:22:31	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	11.8 (bar)
	Dynamic Drag	11.8 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[11.75]+17.0	29.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[11.75]+17.0	28.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	5	
Reference	6892645	
Created	07/05/2015 11:42:22	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[8.37]+17.0	25.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	Cool time short	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	6	
Reference	6892646	
Created	07/05/2015 12:07:59	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.9 (bar)
	Dynamic Drag	8.9 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[8.88]+17.0	26.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.88]+17.0	25.8
Cool Time (s)	600.0	596.6
Final Bead OK	No	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	7	
Reference	6892647	
Created	07/05/2015 13:39:43	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	16°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.4 (bar)
	Dynamic Drag	9.4 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[9.38]+17.0	26.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.38]+17.0	26.4
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	8	
Reference	6892648	
Created	07/05/2015 14:03:33	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	17.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.75]+17.0	26.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.75]+17.0	26.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	9	
Reference	6892649	
Created	07/05/2015 14:24:54	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	18.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	11.6 (bar)
	Dynamic Drag	11.6 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[11.63]+17.0	28.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[11.63]+17.0	28.5
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Record

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Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:27	
Uploader		jrumney	
Joint Identification			
Joint Number		10	
Reference		6892650	
Created		07/05/2015 14:47:07	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		17°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	6.4 (bar)
		Dynamic Drag	6.4 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.5
Bead Pressure (bar)		[6.38]+17.0	23.4
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[6.38]+17.0	23.2
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:27	
Uploader		jrumney	
Joint Identification			
Joint Number		11	
Reference		6892651	
Created		07/05/2015 15:18:39	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		17.7°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	10.1 (bar)
		Dynamic Drag	10.1 (bar)
		Dwell Time	1.6 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.5
Bead Pressure (bar)		[10.13]+17.0	27.8
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[10.13]+17.0	27.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		DUMMY JOINT COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:27	
Uploader		jrumney	
Joint Identification			
Joint Number		12	
Reference		6892652	
Created		08/05/2015 09:50:18	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		12.2°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.2 (bar)
		Dynamic Drag	7.2 (bar)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	232.8
Bead Pressure (bar)		[7.25]+17.0	25.8
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.25]+17.0	0.0
Cool Time (s)		600.0	0.0
Joint Simulated		Yes	
Final Bead OK		No	

Joint Record

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Joint Record

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Joint Record

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Joint Status		COMPLETE	
Account	JSR20M		
Uploaded	21/05/2015 18:08:27		
Uploader	jrumney		
Joint Identification			
Joint Number	13		
Reference	6892653		
Created	08/05/2015 10:05:47		
Operator	JSRCG		
Project Details			
Project Joint Number	0.*		
Machine			
Model	Gator		
Type	GATOR180		
Serial Number	G180-2003		
Owner	FUSION HIRE		
Software version	VH.64TS/GB		
Operating Voltage	110V		
Location & Environment			
Location	1514 C2		
Ambient Temp	13.5°C		
Pipe Selected			
	PE80 160mm SDR 11 Black		
Pipe/Fitting Details			
Welding Parameters			
Standard	WIS4-32-08		
Drag Parameters (##)	Peak Drag	7.1 (bar)	
	Dynamic Drag	7.1 (bar)	
	Dwell Time	1.6 (secs)	
	TARGET	ACTUAL	
Heater Temp (°C)	233.0	232.0	
Bead Pressure (bar)	[7.13]+17.0	25.2	
Bead Distance (µm)	200.0	200.0	
Soak Pressure (bar)	0	0	
Soak Time (s)	205.0	205.0	
Fusion Pressure (bar)	[7.13]+17.0	23.9	
Cool Time (s)	600.0	600.0	
Final Bead OK	Yes		

Joint Status		COMPLETE	
Account	JSR20M		
Uploaded	21/05/2015 18:08:27		
Uploader	jrumney		
Joint Identification			
Joint Number	14		
Reference	6892654		
Created	08/05/2015 10:26:45		
Operator	JSRCG		
Project Details			
Project Joint Number	0.*		
Machine			
Model	Gator		
Type	GATOR180		
Serial Number	G180-2003		
Owner	FUSION HIRE		
Software version	VH.64TS/GB		
Operating Voltage	110V		
Location & Environment			
Location	1514 C2		
Ambient Temp	15°C		
Pipe Selected			
PE80 160mm SDR 11 Black			
Pipe/Fitting Details			
Welding Parameters			
Standard	WIS4-32-08		
Drag Parameters (##)	Peak Drag	8.2 (bar)	
	Dynamic Drag	8.2 (bar)	
	Dwell Time	1.6 (secs)	
		TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5	
Bead Pressure (bar)	[8.25]+17.0	25.4	
Bead Distance (µm)	200.0	200.0	
Soak Pressure (bar)	0	0	
Soak Time (s)	205.0	205.0	
Fusion Pressure (bar)	[8.25]+17.0	25.2	
Cool Time (s)	600.0	600.0	
Final Bead OK	Yes		

Joint Status		COMPLETE	
Account	JSR20M		
Uploaded	21/05/2015 18:08:27		
Uploader	jrumney		
Joint Identification			
Joint Number	15		
Reference	6892655		
Created	08/05/2015 10:46:21		
Operator	JSRCG		
Project Details			
Project Joint Number	0.*		
Machine			
Model	Gator		
Type	GATOR180		
Serial Number	G180-2003		
Owner	FUSION HIRE		
Software version	VH.64TS/GB		
Operating Voltage	110V		
Location & Environment			
Location	1514 C2		
Ambient Temp	14°C		
Pipe Selected			
	PE80 160mm SDR 11 Black		
Pipe/Fitting Details			
Welding Parameters			
Standard	WIS4-32-08		
Drag Parameters (##)	Peak Drag	7.1 (bar)	
	Dynamic Drag	7.1 (bar)	
	Dwell Time	1.7 (secs)	
	TARGET	ACTUAL	
Heater Temp (°C)	233.0	231.0	
Bead Pressure (bar)	[7.13]+17.0	24.1	
Bead Distance (µm)	200.0	200.0	
Soak Pressure (bar)	0	0	
Soak Time (s)	205.0	205.0	
Fusion Pressure (bar)	[7.13]+17.0	24.0	
Cool Time (s)	600.0	600.0	
Final Bead OK	Yes		

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	16	
Reference	6892656	
Created	08/05/2015 11:05:04	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.25]+17.0	24.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.25]+17.0	24.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	17	
Reference	6892657	
Created	08/05/2015 11:23:55	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[8.37]+17.0	26.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.5
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:27	
Uploader	jrumney	
Joint Identification		
Joint Number	18	
Reference	6892658	
Created	08/05/2015 11:42:39	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.4 (bar)
	Dynamic Drag	7.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[7.37]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.37]+17.0	24.5
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Record

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Joint Record

www.jointmanager.com

Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:27
Uploader	jrumney

Joint Identification	
Joint Number	19
Reference	6892659
Created	08/05/2015 12:07:29
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	15.2°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	6.6 (bar)
	Dynamic Drag	6.6 (bar)
	Dwell Time	1.7 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[6.62]+17.0	23.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.62]+17.0	23.2
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:27
Uploader	jrumney

Joint Identification	
Joint Number	20
Reference	6892660
Created	08/05/2015 12:33:42
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	18.3°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
----------------------	--

Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	9.1 (bar)
	Dynamic Drag	9.1 (bar)
	Dwell Time	1.6 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.0
Bead Pressure (bar)	[9.12]+17.0	26.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.12]+17.0	26.0
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:27
Uploader	jrumney

Joint Identification	
Joint Number	21
Reference	6892661
Created	08/05/2015 12:54:44
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	19.2°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
----------------------	--

Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.7 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[7.25]+17.0	24.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.25]+17.0	24.0
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:28	
Uploader		jrumney	
Joint Identification			
Joint Number		22	
Reference		6892662	
Created		08/05/2015 13:15:02	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		19.7°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.6 (bar)
		Dynamic Drag	7.6 (bar)
		Dwell Time	1.6 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.2
Bead Pressure (bar)		[7.63]+17.0	25.1
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.63]+17.0	24.8
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	23	
Reference	6892663	
Created	08/05/2015 13:51:12	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	18.5°C	
Pipe Selected		
	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.6 (bar)
	Dynamic Drag	7.6 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[7.63]+17.0	24.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.63]+17.0	24.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	24	
Reference	6892664	
Created	08/05/2015 14:11:04	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	18.7°C	
Pipe Selected		
PE80 160mm SDR 11 Black		
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[8]+17.0	24.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	25	
Reference	6892665	
Created	08/05/2015 14:31:03	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.4 (bar)
	Dynamic Drag	7.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[7.37]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.37]+17.0	24.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	26	
Reference	6892666	
Created	08/05/2015 14:51:15	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[8]+17.0	25.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	27	
Reference	6892667	
Created	08/05/2015 15:11:45	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.8 (bar)
	Dynamic Drag	7.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[7.75]+17.0	24.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.75]+17.0	24.5
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	DUMMY JOINT COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	28	
Reference	6892668	
Created	11/05/2015 08:51:14	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	11.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.5 (bar)
	Dynamic Drag	8.5 (bar)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.8
Bead Pressure (bar)	[8.5]+17.0	27.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.5]+17.0	0.0
Cool Time (s)	600.0	0.0
Joint Simulated	Yes	
Final Bead OK	No	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	29	
Reference	6892669	
Created	11/05/2015 09:00:40	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[8.75]+17.0	25.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.75]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	30	
Reference	6892670	
Created	11/05/2015 09:22:53	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	17.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.1 (bar)
	Dynamic Drag	9.1 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[9.12]+17.0	26.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.12]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	31	
Reference	6892671	
Created	11/05/2015 10:04:46	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.9 (bar)
	Dynamic Drag	8.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.0
Bead Pressure (bar)	[8.88]+17.0	27.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.88]+17.0	25.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	32	
Reference	6892672	
Created	11/05/2015 10:29:14	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.8
Bead Pressure (bar)	[8]+17.0	25.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8]+17.0	24.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	33	
Reference	6892673	
Created	11/05/2015 10:47:30	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	23°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.5 (bar)
	Dynamic Drag	6.5 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[6.5]+17.0	23.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.5]+17.0	23.5
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	34	
Reference	6892674	
Created	11/05/2015 11:07:18	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	26.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.0
Bead Pressure (bar)	[8.75]+17.0	26.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.75]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	35	
Reference	6892675	
Created	11/05/2015 11:26:06	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	28.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.8 (bar)
	Dynamic Drag	9.8 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[9.75]+17.0	27.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.75]+17.0	26.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	36	
Reference	6892676	
Created	11/05/2015 11:44:37	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	28.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.4 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[7.37]+17.0	24.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.25]+17.0	24.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Record

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Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:28	
Uploader		jrumney	
Joint Identification			
Joint Number		37	
Reference		6892677	
Created		11/05/2015 12:02:32	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		27.5°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	6.6 (bar)
		Dynamic Drag	6.6 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.0
Bead Pressure (bar)		[6.62]+17.0	23.5
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[6.62]+17.0	23.9
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:28	
Uploader		jrumney	
Joint Identification			
Joint Number		38	
Reference		6892678	
Created		11/05/2015 13:04:09	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		23°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	8.5 (bar)
		Dynamic Drag	8.5 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.0
Bead Pressure (bar)		[8.5]+17.0	26.1
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[8.5]+17.0	25.6
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:28	
Uploader		jrumney	
Joint Identification			
Joint Number		39	
Reference		6892679	
Created		11/05/2015 13:23:12	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		22.8°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.1 (bar)
		Dynamic Drag	7.1 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.0
Bead Pressure (bar)		[7.13]+17.0	24.0
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.13]+17.0	24.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	40	
Reference	6892680	
Created	11/05/2015 13:40:45	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	22.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.9 (bar)
	Dynamic Drag	6.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[6.88]+17.0	23.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.88]+17.0	23.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	41	
Reference	6892681	
Created	11/05/2015 14:00:58	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	22°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.2 (bar)
	Dynamic Drag	6.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.8
Bead Pressure (bar)	[6.25]+17.0	23.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.12]+17.0	23.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:28	
Uploader	jrumney	
Joint Identification		
Joint Number	42	
Reference	6892682	
Created	11/05/2015 14:19:06	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	21°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.0
Bead Pressure (bar)	[8.75]+17.0	25.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.75]+17.0	25.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		43	
Reference		6892683	
Created		11/05/2015 14:36:56	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		21.3°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.0 (bar)
		Dynamic Drag	7.0 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[7]+17.0	23.9
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7]+17.0	24.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		44	
Reference		6892684	
Created		11/05/2015 14:53:40	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		21.5°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.0 (bar)
		Dynamic Drag	7.0 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[7]+17.0	23.9
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7]+17.0	24.0
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		DUMMY JOINT COMPLETE	
Account	JSR20M		
Uploaded	21/05/2015 18:08:29		
Uploader	jrumney		
Joint Identification			
Joint Number	45		
Reference	6892685		
Created	12/05/2015 08:44:11		
Operator	JSRCG		
Project Details			
Project Joint Number	0.*		
Machine			
Model	Gator		
Type	GATOR180		
Serial Number	G180-2003		
Owner	FUSION HIRE		
Software version	VH.64TS/GB		
Operating Voltage	110V		
Location & Environment			
Location	1514 C2		
Ambient Temp	9.5°C		
Pipe Selected			
PE80 160mm SDR 11 Black			
Pipe/Fitting Details			
Welding Parameters			
Standard	WIS4-32-08		
Drag Parameters (##)	Peak Drag	9.2 (bar)	
	Dynamic Drag	9.2 (bar)	
	TARGET	ACTUAL	
Heater Temp (°C)	233.0	231.5	
Bead Pressure (bar)	[9.25]+17.0	28.1	
Bead Distance (µm)	200.0	200.0	
Soak Pressure (bar)	0	0	
Soak Time (s)	205.0	205.0	
Fusion Pressure (bar)	[9.25]+17.0	0.0	
Cool Time (s)	600.0	0.0	
Joint Simulated	Yes		
Final Bead OK	No		

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		46	
Reference		6892686	
Created		12/05/2015 08:55:24	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		10.8°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	9.9 (bar)
		Dynamic Drag	9.9 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.2
Bead Pressure (bar)		[9.88]+17.0	26.9
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[9.88]+17.0	27.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	47	
Reference	6892687	
Created	12/05/2015 09:13:54	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.5°C	
Pipe Selected		
PE80 160mm SDR 11 Black		
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.6 (bar)
	Dynamic Drag	9.6 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[9.63]+17.0	27.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.63]+17.0	26.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	48	
Reference	6892688	
Created	12/05/2015 09:33:15	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13.5°C	
Pipe Selected		
	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.88]+17.0	24.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		49	
Reference		6892689	
Created		12/05/2015 09:52:25	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		14.8°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.4 (bar)
		Dynamic Drag	7.4 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.5
Bead Pressure (bar)		[7.37]+17.0	24.5
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.37]+17.0	24.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		50	
Reference		6892690	
Created		12/05/2015 10:12:18	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		16°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	8.2 (bar)
		Dynamic Drag	8.2 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	232.2
Bead Pressure (bar)		[8.25]+17.0	24.9
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[8.25]+17.0	25.2
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		51	
Reference		6892691	
Created		12/05/2015 10:32:47	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		17°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	6.8 (bar)
		Dynamic Drag	6.8 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.0
Bead Pressure (bar)		[6.75]+17.0	23.1
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[6.75]+17.0	23.9
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

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Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:29
Uploader	jrumney

Joint Identification	
Joint Number	52
Reference	6892692
Created	12/05/2015 11:01:47
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	18.3°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	8.1 (bar)
	Dynamic Drag	8.1 (bar)
	Dwell Time	1.7 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.13]+17.0	26.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.13]+17.0	25.1
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:29
Uploader	jrumney

Joint Identification	
Joint Number	53
Reference	6892693
Created	12/05/2015 11:25:27
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	24°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	7.5 (bar)
	Dynamic Drag	7.5 (bar)
	Dwell Time	1.6 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[7.5]+17.0	24.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.5]+17.0	24.6
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Status	COMPLETE
Account	JSR20M
Uploaded	21/05/2015 18:08:29
Uploader	jrumney

Joint Identification	
Joint Number	54
Reference	6892694
Created	12/05/2015 11:43:11
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	23.5°C

Pipe Selected	
	PE80 160mm SDR 11 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	WIS4-32-08

Drag Parameters (##)	Peak Drag	7.8 (bar)
	Dynamic Drag	7.8 (bar)
	Dwell Time	1.7 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[7.75]+17.0	24.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.75]+17.0	24.5
Cool Time (s)	600.0	600.0

Final Bead OK	Yes
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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		55	
Reference		6892695	
Created		12/05/2015 12:01:07	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		24.7°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	8.0 (bar)
		Dynamic Drag	8.0 (bar)
		Dwell Time	1.6 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	230.5
Bead Pressure (bar)		[8]+17.0	24.8
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[8]+17.0	25.1
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	56	
Reference	6892696	
Created	12/05/2015 13:10:24	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	21.3°C	
Pipe Selected		
PE80 160mm SDR 11 Black		
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.9 (bar)
	Dynamic Drag	8.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	233.0
Bead Pressure (bar)	[8.88]+17.0	26.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.88]+17.0	25.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		57	
Reference		6892697	
Created		12/05/2015 13:31:39	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		19.2°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	8.2 (bar)
		Dynamic Drag	8.2 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.0
Bead Pressure (bar)		[8.25]+17.0	25.1
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[8.25]+17.0	25.2
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	58	
Reference	6892698	
Created	12/05/2015 13:50:24	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.2 (bar)
	Dynamic Drag	6.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[6.25]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.25]+17.0	23.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	59	
Reference	6892699	
Created	12/05/2015 14:13:57	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.6 (bar)
	Dynamic Drag	7.6 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[7.63]+17.0	24.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.63]+17.0	24.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	60	
Reference	6892700	
Created	12/05/2015 14:31:53	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.8 (bar)
	Dynamic Drag	7.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.0
Bead Pressure (bar)	[7.75]+17.0	24.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.75]+17.0	24.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		61	
Reference		6892701	
Created		12/05/2015 14:49:47	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		18.7°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	8.8 (bar)
		Dynamic Drag	8.8 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[8.75]+17.0	25.5
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[8.75]+17.0	25.4
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	62	
Reference	6892702	
Created	12/05/2015 15:07:44	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	17.3°C	
Pipe Selected		
	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.0
Bead Pressure (bar)	[8.75]+17.0	26.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.75]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:29	
Uploader		jrumney	
Joint Identification			
Joint Number		63	
Reference		6892703	
Created		12/05/2015 15:25:54	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		16.3°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	6.4 (bar)
		Dynamic Drag	6.4 (bar)
		Dwell Time	1.6 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.2
Bead Pressure (bar)		[6.38]+17.0	22.9
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[6.38]+17.0	23.2
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Record

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Joint Status	DUMMY JOINT COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	64	
Reference	6892704	
Created	13/05/2015 08:40:46	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.5 (bar)
	Dynamic Drag	6.5 (bar)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[6.5]+17.0	23.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.5]+17.0	0.0
Cool Time (s)	600.0	0.0
Joint Simulated	Yes	
Final Bead OK	No	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	65	
Reference	6892705	
Created	13/05/2015 08:50:47	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	18.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.4 (bar)
	Dynamic Drag	6.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.0
Bead Pressure (bar)	[6.38]+17.0	22.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.38]+17.0	23.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	66	
Reference	6892706	
Created	13/05/2015 09:10:48	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	16.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.4 (bar)
	Dynamic Drag	7.4 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[7.37]+17.0	24.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.37]+17.0	24.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	67	
Reference	6892707	
Created	13/05/2015 09:28:40	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	17.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.5 (bar)
	Dynamic Drag	7.5 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[7.5]+17.0	24.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.5]+17.0	24.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	68	
Reference	6892708	
Created	13/05/2015 09:47:57	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	22.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.0 (bar)
	Dynamic Drag	7.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[7]+17.0	24.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7]+17.0	24.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	69	
Reference	6892709	
Created	13/05/2015 10:05:55	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	22.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[7.88]+17.0	25.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	70	
Reference	6892710	
Created	13/05/2015 10:23:55	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	21.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.88]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	71	
Reference	6892711	
Created	13/05/2015 10:41:11	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	21.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.9 (bar)
	Dynamic Drag	6.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[6.88]+17.0	23.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.88]+17.0	23.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:29	
Uploader	jrumney	
Joint Identification		
Joint Number	72	
Reference	6892712	
Created	13/05/2015 11:03:12	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.8 (bar)
	Dynamic Drag	7.8 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[7.75]+17.0	24.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.75]+17.0	24.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:30	
Uploader		jrumney	
Joint Identification			
Joint Number		73	
Reference		6892713	
Created		13/05/2015 11:20:55	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		19.7°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.8 (bar)
		Dynamic Drag	7.8 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	231.0
Bead Pressure (bar)		[7.75]+17.0	25.1
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.75]+17.0	24.8
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	74	
Reference	6892714	
Created	13/05/2015 11:39:21	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	26°C	
Pipe Selected		
PE80 160mm SDR 11 Black		
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.2
Bead Pressure (bar)	[8.37]+17.0	25.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.4
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	75	
Reference	6892715	
Created	13/05/2015 11:57:51	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	26.3°C	
Pipe Selected		
	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[8.37]+17.0	25.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	76	
Reference	6892716	
Created	13/05/2015 12:54:39	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	23.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.1 (bar)
	Dynamic Drag	8.1 (bar)
	Dwell Time	1.6 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[8.13]+17.0	25.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.13]+17.0	25.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	77	
Reference	6892717	
Created	13/05/2015 13:15:30	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.9 (bar)
	Dynamic Drag	8.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.2
Bead Pressure (bar)	[8.88]+17.0	25.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.88]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	78	
Reference	6892718	
Created	13/05/2015 13:35:44	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	19.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[7.25]+17.0	24.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.25]+17.0	24.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	79	
Reference	6892719	
Created	13/05/2015 13:56:26	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	20.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.5 (bar)
	Dynamic Drag	6.5 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	233.2
Bead Pressure (bar)	[6.5]+17.0	22.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.5]+17.0	23.4
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	80	
Reference	6892720	
Created	13/05/2015 14:22:41	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	24°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.1 (bar)
	Dynamic Drag	8.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[8.13]+17.0	25.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.13]+17.0	25.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	81	
Reference	6892721	
Created	13/05/2015 14:41:41	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	22.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.37]+17.0	25.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.4
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	82	
Reference	6892722	
Created	13/05/2015 15:01:24	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	23.3°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.5 (bar)
	Dynamic Drag	8.5 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[8.5]+17.0	25.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.5]+17.0	25.4
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	83	
Reference	6892723	
Created	13/05/2015 15:19:41	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	25.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.5 (bar)
	Dynamic Drag	8.5 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.2
Bead Pressure (bar)	[8.5]+17.0	25.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.5]+17.0	25.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	84	
Reference	6892724	
Created	13/05/2015 15:37:46	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	27.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[8]+17.0	25.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8]+17.0	24.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	DUMMY JOINT COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	85	
Reference	6892725	
Created	14/05/2015 08:20:23	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	6.2°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.1 (bar)
	Dynamic Drag	7.1 (bar)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[7.13]+17.0	24.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.13]+17.0	0.0
Cool Time (s)	600.0	0.0
Joint Simulated	Yes	
Final Bead OK	No	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	86	
Reference	6892726	
Created	14/05/2015 08:29:15	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	6.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	6.9 (bar)
	Dynamic Drag	6.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[6.88]+17.0	24.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[6.88]+17.0	23.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	87	
Reference	6892727	
Created	14/05/2015 09:10:18	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	13.2 (bar)
	Dynamic Drag	13.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.5
Bead Pressure (bar)	[13.25]+17.0	29.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[13.25]+17.0	30.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	88	
Reference	6892728	
Created	14/05/2015 09:30:06	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	8.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.0 (bar)
	Dynamic Drag	9.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[9]+17.0	26.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9]+17.0	25.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	89	
Reference	6892729	
Created	14/05/2015 09:48:24	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	10°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.1 (bar)
	Dynamic Drag	9.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[9.12]+17.0	26.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.12]+17.0	26.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	90	
Reference	6892730	
Created	14/05/2015 10:07:18	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	10°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	9.8 (bar)
	Dynamic Drag	9.8 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[9.75]+17.0	26.5
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[9.75]+17.0	26.9
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		21/05/2015 18:08:30	
Uploader		jrumney	
Joint Identification			
Joint Number		91	
Reference		6892731	
Created		14/05/2015 10:26:30	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		10.5°C	
Pipe Selected			
		PE80 160mm SDR 11 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		WIS4-32-08	
Drag Parameters (##)		Peak Drag	7.6 (bar)
		Dynamic Drag	7.6 (bar)
		Dwell Time	1.7 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[7.63]+17.0	24.2
Bead Distance (µm)		200.0	200.0
Soak Pressure (bar)		0	0
Soak Time (s)		205.0	205.0
Fusion Pressure (bar)		[7.63]+17.0	24.6
Cool Time (s)		600.0	600.0
Final Bead OK		Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	92	
Reference	6892732	
Created	14/05/2015 10:45:40	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	11.3°C	
Pipe Selected		
	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[7.88]+17.0	25.0
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	24.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status		COMPLETE
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	93	
Reference	6892733	
Created	14/05/2015 11:05:30	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.2°C	
Pipe Selected		
PE80 160mm SDR 11 Black		
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[7.88]+17.0	24.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	25.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	94	
Reference	6892734	
Created	14/05/2015 11:23:28	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.1 (bar)
	Dynamic Drag	7.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.2
Bead Pressure (bar)	[7.13]+17.0	24.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.13]+17.0	24.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	95	
Reference	6892735	
Created	14/05/2015 11:47:40	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[8.37]+17.0	25.2
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.2
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	96	
Reference	6892736	
Created	14/05/2015 13:00:04	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	11°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.5
Bead Pressure (bar)	[8]+17.0	24.6
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8]+17.0	24.8
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	97	
Reference	6892737	
Created	14/05/2015 13:18:17	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	11.7°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[8.37]+17.0	25.4
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.37]+17.0	25.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	98	
Reference	6892738	
Created	14/05/2015 13:36:27	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	8.1 (bar)
	Dynamic Drag	8.1 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[8.13]+17.0	26.1
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[8.13]+17.0	25.0
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:30	
Uploader	jrumney	
Joint Identification		
Joint Number	99	
Reference	6892739	
Created	14/05/2015 13:57:09	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13.5°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	10.2 (bar)
	Dynamic Drag	10.2 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[10.25]+17.0	26.9
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[10.25]+17.0	27.1
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	21/05/2015 18:08:31	
Uploader	jrumney	
Joint Identification		
Joint Number	100	
Reference	6892740	
Created	14/05/2015 14:15:04	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.8°C	
Pipe Selected	PE80 160mm SDR 11 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	WIS4-32-08	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[7.88]+17.0	24.8
Bead Distance (µm)	200.0	200.0
Soak Pressure (bar)	0	0
Soak Time (s)	205.0	205.0
Fusion Pressure (bar)	[7.88]+17.0	24.6
Cool Time (s)	600.0	600.0
Final Bead OK	Yes	

Joint Record

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Joint Status	DUMMY JOINT COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:03	
Uploader	jrumney	
Joint Identification		
Joint Number	101	
Reference	6959481	
Created	15/05/2015 08:41:09	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	17.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	8.2 (bar)
	Dynamic Drag	8.2 (bar)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	232.2
Bead Pressure (bar)	[8.25]+7.0	14.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.25]+7.0	0.0
Cool Time (s)	140.0	0.0
Joint Simulated	Yes	
Final Bead OK	No	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:03	
Uploader	jrumney	
Joint Identification		
Joint Number	102	
Reference	6959482	
Created	15/05/2015 08:47:02	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	18.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	8.4 (bar)
	Dynamic Drag	8.4 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[8.37]+7.0	15.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.37]+7.0	15.4
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Record

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Joint Record

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Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		05/06/2015 17:57:03	
Uploader		jrumney	
Joint Identification			
Joint Number		103	
Reference		6959483	
Created		15/05/2015 08:54:52	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		19.7°C	
Pipe Selected			
		PE80 160mm SDR 26 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		Fusion FW Landfill	
Drag Parameters (##)		Peak Drag	9.1 (bar)
		Dynamic Drag	9.1 (bar)
		Dwell Time	1.8 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[9.12]+7.0	16.8
Bead Distance (µm)		400.0	400.0
Soak Pressure (bar)		0	0
Soak Time (s)		15.0	15.0
Fusion Pressure (bar)		[9.12]+7.0	15.9
Cool Time (s)		140.0	140.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		05/06/2015 17:57:03	
Uploader		jrumney	
Joint Identification			
Joint Number		104	
Reference		6959484	
Created		15/05/2015 09:05:35	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		22.2°C	
Pipe Selected			
		PE80 160mm SDR 26 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		Fusion FW Landfill	
Drag Parameters (##)		Peak Drag	8.1 (bar)
		Dynamic Drag	8.1 (bar)
		Dwell Time	1.8 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[8.13]+7.0	15.4
Bead Distance (µm)		400.0	400.0
Soak Pressure (bar)		0	0
Soak Time (s)		15.0	15.0
Fusion Pressure (bar)		[8.13]+7.0	15.1
Cool Time (s)		140.0	140.0
Final Bead OK		Yes	

Joint Status		COMPLETE	
Account		JSR20M	
Uploaded		05/06/2015 17:57:03	
Uploader		jrumney	
Joint Identification			
Joint Number		105	
Reference		6959485	
Created		15/05/2015 09:15:13	
Operator		JSRCG	
Project Details			
Project Joint Number		0.*	
Machine			
Model		Gator	
Type		GATOR180	
Serial Number		G180-2003	
Owner		FUSION HIRE	
Software version		VH.64TS/GB	
Operating Voltage		110V	
Location & Environment			
Location		1514 C2	
Ambient Temp		24.5°C	
Pipe Selected			
		PE80 160mm SDR 26 Black	
Pipe/Fitting Details			
Welding Parameters			
Standard		Fusion FW Landfill	
Drag Parameters (##)		Peak Drag	8.5 (bar)
		Dynamic Drag	8.5 (bar)
		Dwell Time	1.8 (secs)
		TARGET	ACTUAL
Heater Temp (°C)		233.0	229.5
Bead Pressure (bar)		[8.5]+7.0	15.9
Bead Distance (µm)		400.0	400.0
Soak Pressure (bar)		0	0
Soak Time (s)		15.0	15.0
Fusion Pressure (bar)		[8.5]+7.0	15.4
Cool Time (s)		140.0	140.0
Final Bead OK		Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	106	
Reference	6959486	
Created	15/05/2015 09:22:14	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	25.3°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.8 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[8.75]+7.0	15.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.75]+7.0	16.0
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	107	
Reference	6959487	
Created	15/05/2015 09:30:04	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	26.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.6 (bar)
	Dynamic Drag	7.6 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[7.63]+7.0	14.9
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.63]+7.0	14.5
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	108	
Reference	6959488	
Created	15/05/2015 10:07:33	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	29°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	8.0 (bar)
	Dynamic Drag	8.0 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	233.2
Bead Pressure (bar)	[8]+7.0	14.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8]+7.0	14.9
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	109	
Reference	6959489	
Created	15/05/2015 10:16:03	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	29°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	8.8 (bar)
	Dynamic Drag	8.5 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[8.75]+7.0	15.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8.5]+7.0	15.6
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	110	
Reference	6959490	
Created	15/05/2015 10:24:59	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	29.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	9.4 (bar)
	Dynamic Drag	9.4 (bar)
	Dwell Time	1.7 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[9.38]+7.0	16.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[9.38]+7.0	16.2
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	111	
Reference	6959491	
Created	29/05/2015 13:16:44	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	10.8°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.8
Bead Pressure (bar)	[7.25]+7.0	14.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.25]+7.0	14.2
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	112	
Reference	6959492	
Created	29/05/2015 13:24:53	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	11.3°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.5 (bar)
	Dynamic Drag	7.5 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.5]+7.0	15.4
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.5]+7.0	14.2
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	113	
Reference	6959493	
Created	29/05/2015 13:33:36	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	12.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.9 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.8
Bead Pressure (bar)	[7.25]+7.0	14.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.25]+7.0	14.2
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

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Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	114	
Reference	6959494	
Created	29/05/2015 13:39:59	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.5 (bar)
	Dynamic Drag	7.5 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[7.5]+7.0	14.8
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.5]+7.0	14.4
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	115	
Reference	6959495	
Created	29/05/2015 13:47:15	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13.7°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.2 (bar)
	Dynamic Drag	7.2 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[7.25]+7.0	14.1
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.25]+7.0	14.4
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	116	
Reference	6959496	
Created	29/05/2015 13:53:52	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	13.5°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.9 (bar)
	Dynamic Drag	7.9 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.2
Bead Pressure (bar)	[7.88]+7.0	15.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.88]+7.0	14.9
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE	
Account	JSR20M	
Uploaded	05/06/2015 17:57:04	
Uploader	jrumney	
Joint Identification		
Joint Number	117	
Reference	6959497	
Created	29/05/2015 13:59:54	
Operator	JSRCG	
Project Details		
Project Joint Number	0.*	
Machine		
Model	Gator	
Type	GATOR180	
Serial Number	G180-2003	
Owner	FUSION HIRE	
Software version	VH.64TS/GB	
Operating Voltage	110V	
Location & Environment		
Location	1514 C2	
Ambient Temp	14.2°C	
Pipe Selected	PE80 160mm SDR 26 Black	
Pipe/Fitting Details		
Welding Parameters		
Standard	Fusion FW Landfill	
Drag Parameters (##)	Peak Drag	7.6 (bar)
	Dynamic Drag	7.6 (bar)
	Dwell Time	1.8 (secs)
	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.5
Bead Pressure (bar)	[7.63]+7.0	14.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.63]+7.0	14.6
Cool Time (s)	140.0	140.0
Final Bead OK	Yes	

Joint Record

www.jointmanager.com

Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	118
Reference	6959498
Created	29/05/2015 14:06:37
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	14.5°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	Fusion FW Landfill

Drag Parameters (##)	Peak Drag	7.5 (bar)
	Dynamic Drag	7.5 (bar)
	Dwell Time	1.8 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.2
Bead Pressure (bar)	[7.5]+7.0	14.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.5]+7.0	14.4
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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Joint Record

www.jointmanager.com

Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	119
Reference	6959499
Created	29/05/2015 14:14:50
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	15.2°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	Fusion FW Landfill

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

	TARGET	ACTUAL
Heater Temp (°C)	233.0	231.0
Bead Pressure (bar)	[7.63]+7.0	15.0
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.63]+7.0	14.6
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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Joint Record

www.jointmanager.com

Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	120
Reference	6959500
Created	29/05/2015 14:20:55
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	15.5°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	Fusion FW Landfill

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

	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[8]+7.0	14.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[8]+7.0	14.9
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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Joint Record

www.jointmanager.com

Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	121
Reference	6959501
Created	29/05/2015 14:27:51
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	16.5°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
----------------------	--

Welding Parameters	
Standard	Fusion FW Landfill

Drag Parameters (##)	Peak Drag	7.8 (bar)
	Dynamic Drag	7.8 (bar)
	Dwell Time	1.8 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.75]+7.0	15.2
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.75]+7.0	14.9
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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Joint Record

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Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	122
Reference	6959502
Created	29/05/2015 14:35:24
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	15.5°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	Fusion FW Landfill

Drag Parameters (##)	Peak Drag	7.6 (bar)
	Dynamic Drag	7.6 (bar)
	Dwell Time	1.9 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	229.8
Bead Pressure (bar)	[7.63]+7.0	15.6
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.63]+7.0	14.8
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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Joint Record

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Joint Status	COMPLETE
Account	JSR20M
Uploaded	05/06/2015 17:57:04
Uploader	jrumney

Joint Identification	
Joint Number	123
Reference	6959503
Created	29/05/2015 14:44:21
Operator	JSRCG

Project Details	
Project Joint Number	0.*

Machine	
Model	Gator
Type	GATOR180
Serial Number	G180-2003
Owner	FUSION HIRE
Software version	VH.64TS/GB
Operating Voltage	110V

Location & Environment	
Location	1514 C2
Ambient Temp	16.7°C

Pipe Selected	
	PE80 160mm SDR 26 Black

Pipe/Fitting Details	
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Welding Parameters	
Standard	Fusion FW Landfill

Drag Parameters (##)	Peak Drag	7.4 (bar)
	Dynamic Drag	7.4 (bar)
	Dwell Time	1.8 (secs)

	TARGET	ACTUAL
Heater Temp (°C)	233.0	230.5
Bead Pressure (bar)	[7.37]+7.0	14.5
Bead Distance (µm)	400.0	400.0
Soak Pressure (bar)	0	0
Soak Time (s)	15.0	15.0
Fusion Pressure (bar)	[7.37]+7.0	14.5
Cool Time (s)	140.0	140.0

Final Bead OK	Yes
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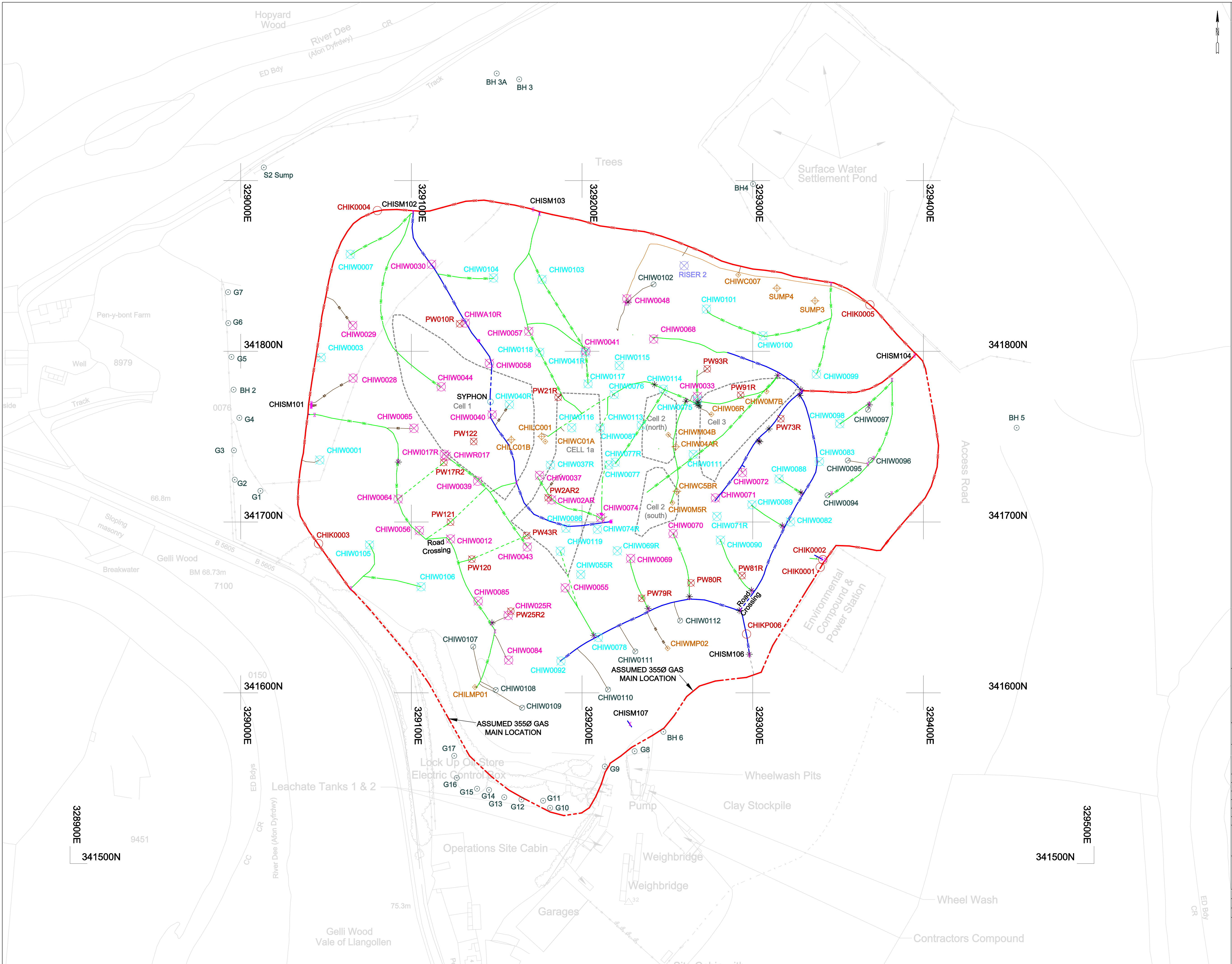
Infinis Energy Services Ltd.

Chirk Landfill Site

Retro-Drilling of Gas Wells

Construction Quality Assurance Report

5. Site Gas System 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 1800
- Gas Well 1800
- Gas Well 2250
- Gas Well 2500 >
- Proposed Gas Well
- Decommissioned Gas Well

Infrastructure Pipework

Above ground Pipe	Underground Pipe
32 32 32mm Gas Pipe	-----
55 55 55mm Gas Pipe	-----
63 63 63mm Gas Pipe	-----
90 90 90mm Gas Pipe	-----
110 110 110mm Gas Pipe	-----
120 120 120mm Gas Pipe	-----
125 125 125mm Gas Pipe	-----
160 160 160mm Gas Pipe	-----
180 180 180mm Gas Pipe	-----
200 200 200mm Gas Pipe	-----
250 250 250mm Gas Pipe	-----
280 280 280mm Gas Pipe	-----
315 315 315mm Gas Pipe	-----
350 350 355mm Gas Pipe	-----
400 400 400mm Gas Pipe	-----
450 450 450mm Gas Pipe	-----
500 500 500mm Gas Pipe	-----
650 650 650mm Gas Pipe	-----
Leachate Pipe	-----
Airline Pipe	-----
Air and Discharge Pipe	-----
Discharge Pipe	-----
Condensate Pipe	-----
Leachate Recirculation Pipe	-----
Assumed Pipe	-----

Notes:

- All dimensions are in metres unless otherwise stated.
- All survey co-ordinates related to local site co-ordinate system.
- For ground levels and top of well levels please refer to spreadsheet: '5484_GI04 - Chirk - Gas Well Co-ordinates and levels - October 2013.xls'
- Background mapping copied from plan: '469A167-2011.dwg'
- Boreholes copied from plan: '7751-1A.dwg'
- No site survey undertaken, wells & pipes added from client supplied data. Please refer to file 'Filename-1.pdf' for details of required amendments.

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

GARD ID Prefix:
CHI
File/Information used:

No	Description	By	Chk'd	Date

Project:
CHIRK LANDFILL SITE

Title:
Gas Infrastructure Plan

Drawn By: J.R. Date: 20/08/15
Chk'd By: A.M. Date: 20/08/15
Scale 1: 1000 Sheet Size A1

infinis
Infinis Limited
First Floor
500 Pavilion Drive
Northampton Business Park
Northampton
NN4 7YJ
Drawing No:
5484_DE

Plan 1

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ENVIRONMENTAL
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