

## Past, Ongoing and Future Projects

### PIPE-IN-PIPE

<b>Date</b>	<b>Contractor</b> <i>(vessel if offshore)</i> <b>Operator</b>	<b>Project</b> <b>Country</b>	<b>Number of Welding Stations</b> <b>Pipelines welded</b>
2017	Subsea 7 <i>(Borealis)</i> for Maersk	<b>SS7 Culzean</b> UK	<i>5 Saturnax stations</i> 3.6 km 6" (12.7 mm, DNV 450) - Inner Pipe 3.6 km 10" (12.7 mm, DNV 415) Outer Pipe
2017	Technip  for Statoil Petroleum	<b>Trestakk</b> Norway	<i>2 Saturnax stations</i>  Double Joint Auto : 772 welds 16" (19.1 mm, X65) - Outer pipe 772 welds 11.75" (17.5 mm, 13% Cr) - inner pipe 974 welds 14" (17.5/19.1 mm, 13% Cr) 184 welds 10.6" (15.9 mm, 13% Cr)  Main Line Auto : 772 welds 16" (19.1 mm, X65) - Outer pipe 772 welds 11.75" (17.5 mm, 13% Cr) - inner pipe 974 welds 14" (17.5/19.1 mm, 13% Cr) 184 welds 10.6" (15.9 mm, 13% Cr)  Pipe-in-Pipe stalk Fabrication: 16"/11.75" 560m stalks fabrication, pushing
2015	Hilong  for CNOOC	<b>Weizhou PIP</b> China	<i>5 Saturnax stations</i> 283 welds 6"/10" (14.3/12.7 mm) - 6.9 km 152 welds 8"/12" (15.9/11.1 mm) - 3.7 km 74 welds 10"/14" (12.7/11.1 mm) - 1.8 km 156 welds 12"/16" (12.7/11.1 mm) - 3.8 km 74 welds 12"/16" (12.7/11.1 mm) - 1.8 km 537 welds 16"/10" (15.9/12.7 mm) - 13.1 km 304 welds 22"/26" (22.2/14.3 mm) - 7.7 km
2015	Emas <i>(Lewek Constellation)</i> for Noble Energy	<b>Big Bend Offshore</b> USA (GoM)	22 Tie-Ins 8.625" (25. mm) - FL PIP 22 Tie-Ins 12.75" (20.6 mm) - FL PIP
2015	EMAS  for Noble Energy	<b>Gunflint</b> USA (Ingleside)	<i>5 Saturnax stations</i> Flowlines: Inner: 2,725 welds 8" (30.5 mm) Outer: 2,725 welds 12" (18.3 mm) Inner: 2,875 welds 8" (30.5 mm) Outer: 2,875 welds 12" (18.3 mm) Inner: 50 welds 8" (30.5 mm) Outer: 50 welds 12" (18.3 mm) Full-service Welding & NDT & FJC
2015	Emas <i>(Lewek Constellation)</i> for Noble Energy	<b>Gunflint Offshore</b> USA	<i>Manual welding</i> 21 tie-ins 8.625" (30.5 mm) - FL-PIP 19 tie-ins 12.75" (18.3 mm) - FL-PIP
2015	Subsea 7  for Tullow	<b>TEN Ranville PIP</b> France	E&N: 2,420 welds PIP 8.625" (11", X65) - PIP TNAG: 446 welds 6.625" (8.9", X65) - PI

<b>Date</b>	<b>Contractor</b> (vessel if offshore) <b>Operator</b>	<b>Project</b> <b>Country</b>	<b>Number of Welding Stations</b> <b>Pipelines welded</b>
2014	Technip for Chevron	<b>Alder</b> UK (Evanton)	<i>5 Saturnax stations</i> 27.2 km 10"/16" PIP & 0.36 km 10" PIP: - 2,229 welds 10" (25.4 mm, SMLS 450 SPD) - 2,259 welds 16" (22.2 mm, SMLS 450 SPD) - 30 welds 10" (31.8 mm, SMLS 450 SPD)
2014	ITP (Interpipe) for Subsea 7	<b>Tullow Ten Project</b> France (Ranville)	<i>1 Saturnax + 1 Multinax stations</i> DJ Préfabrication - Inner pipe: 1,688 welds 8.625" (22.2 mm, X65) - 40.3 km Outer pipe: 1,688 welds 10.75" (17.5 mm, X65) - 40.3 km Inner pipe: 240 welds 6.625" (16.9 mm, X65) - 5.7 km Outer pipe: 240 welds 8.625" (12.7 mm, X65) - 5.7 km Inner pipes : sour service Outer pipes : sweet service NDT: AUT
2014	COOEC for COOEC	<b>Bozhong</b> China	
2014	EMAS for Noble Energy	<b>Big Bend</b> USA	<i>4 Saturnax stations</i> FL PIP Inner: 2,108 welds 8" (25.4 mm) FL PIP outer: 2,108 welds 12" (20.6 mm) FL PIP Inner: 2,084 welds 8" (25.4 mm) FL PIP outer: 2,084 welds 12" (20.6 mm)
2014	COOEC for COOEC	<b>Kenli 10-1</b> China	25 km 10" (14.3 mm) 7.7 km 14" (14.3 mm)
2013	Technip (G1201) for COOEC	<b>LH19</b> China	<i>1 Saturnax station</i> Inner pipe: 921 welds 13.63" (23.8 mm, X70) - 11.24 mm Outer pipe: 921 welds 18" (12.7 mm, X70) - 11.24 mm Sweet service conditions
2013	COOEC (Lanjiang) for N/A	<b>Panyu 4-2</b> China	Inner pipe: 1,025 auto welds 12.75" (14.3 mm, X65) - 13 km (outer pipe 16" by manual)
2013	Technip for Shell	<b>Shell Gannet F</b> (Evanton)	965 welds 14" (16 mm, X65) - 11.9 km 965 welds 10" (12.7 mm, 13% Cr) - 11.9 km 965 welds 4" (8.6 mm, X65) - 11.9 km
2013	Technip for Maersk	<b>Maersk Flyndre Cawdor</b> UK (Evanton)	<i>5 Saturnax stations</i> 2,089 welds 12" (15.9 mm, X60) - 25.8 km 2,089 welds 8" (12.7 mm, 13%Cr) - 25.8 km
2013	COOEC (HYSY 202) for N/A	<b>Kenli 3-2</b> China	PIP, Outer 18" by manual: 39 km 14" (14.3 mm, X65) 5 km 12.75" (14.3 mm, X65)
2013	COOEC (HYSY201/Lanjiang) for N/A	<b>Xi-Jiang</b> China	Line 25-8 on board HYSY201: 18.3 km 10.75" (14.33, X65) - Inner pipe Line 24-3 on board Langjiang: 8.3 km 12.75" (14.3 mm, X65) - Inner pipe

<b>Date</b>	<b>Contractor</b> (vessel if offshore) <b>Operator</b>	<b>Project</b> <b>Country</b>	<b>Number of Welding Stations</b> <b>Pipelines welded</b>
2012	Technip for Lundin	<b>TNO Lundin Brynhild</b> UK (Evanton)	<i>Manual welding</i> 3,150 welds 6" (6.4/8.1/9.5 mm, 13%Cr) 3,145 welds 10" (10.8 mm, HFW SML360)
2012	Technip for Nexen	<b>Nexen Golden Eagle</b> UK (Evanton)	405 welds 6" (12.7 mm, 22% Cr) - 4.7km 385 welds 10" (14.3 mm, X60) - 4.6km
2012	COOEC (DLB Lanjiang) for CNOOC	<b>WZ 12-1</b> China	<i>1 Saturnax station</i> 21 km 18"/22", X65
2012	SASB (S3000) for CNOCC	<b>LH4</b> China	<i>1 Saturnax station</i> Carrier pipe - Inner : 1,008 welds 18" (15.9 mm, X65) - 12.3 km Jacket pipe - Outer : 927 welds 22" (15.9 mm, X65) - 11.3 km Buckle Arrestor pipe - Outer : 74 welds 22" (25.4 mm, X65) - 0.878 km
2012	COOEC (HYSY 201) for CNOOC	<b>LH 4-1</b> China	10.75 km 18" (15.9 mm, X65)
2011	Swiber (PJW3000) for Offshore Oil Engineering Co.	<b>LF13</b> China	<i>1 Saturnax station</i> Inner pipe : 1,000 welds 12" (12.7 mm, X70) - 12 km Outer pipe : 1,000 welds 16" (14.3 mm, X65) - 12 km Bulkhead every 500m
2011	Technip for Total	<b>Total Islay</b> UK (Evanton)	<i>Manual welding</i> 959 welds 6" (18,3 mm, 25% Cr) - Inner 464 welds 12" (14,3 mm, X852) Outer
2011	Technip for British Gas	<b>BG Gaupe</b> Scotland (Evanton)	<i>12" Automatic / 8" Manual weldnig</i> 1,174 welds 8" (14,3 mm, 13% Cr) - Inner 1,177 welds 12" (14,3 mm, X65) - Outer
2011	Technip for Endeavour	<b>Endeavour Rochelle</b> UK (Evanton)	<i>4 Saturnax stations</i> 2,500 welds 10" (19.3 mm, L450) - 30.2 km 2,500 welds 14" (16 mm, X52) - 30.2 km
2010/ 2011	Technip for BP Americas	<b>Galapagos Spoolbase</b> USA (Mobile, AL)	<i>4 Saturnax stations</i> 2,285 welds 12.75" (16.9 mm, X70) 2,285 welds 8.625" (27.9 mm, X70) 485 welds 8.625" (32.9 mm, X70)
2010	Technip for Lundin	<b>Broom</b> Scotland (Evanton)	<i>6 Manual + 4 Saturnax stations</i> 7.3 km - 1,200 welds 16" (23.8 mm, X52 Carbon steel) 10" (18.3 mm, X65 Carbon steel PIP)
2010	Technip for Dong Energy	<b>Oselvar</b> Scotland (Evanton)	<i>4 Saturnax stations</i> 1,913 welds 10" (22.1 & 24 mm, 450 I FPUD) 1,968 welds 14" (16 mm, 360 HFI Carrier)
2010	Technip for Statoil	<b>Marulk</b> Norway (Orkanger)	<i>4 automatic stations</i> PIP - Fabrication and assembly of : 10.5" (14.25/15.9 mm, 13% Cr) flowline pipe inside 15" (20.5 mm, CS) carrier pipe

<b>Date</b>	<b>Contractor</b> (vessel if offshore) <b>Operator</b>	<b>Project</b> <b>Country</b>	<b>Number of Welding Stations</b> <b>Pipelines welded</b>
2010	Technip for (N/A)	<b>Smorbukk</b> Norway (Orkanger)	<i>4 Saturnax stations</i> 6 km of PIP 12" Outer pipe : 234 DJ + 234 ML welds 10" Inner pipe : 234 DJ + 234 ML welds SML C-Mn 360 Carrier and 13% Cr
2010	Technip for BP UK	<b>Devenick</b> Scotland (Evanton)	<i>Automatic and manual welding</i> 2,710 welds 10" (12 mm, 13%Cr) 2,710 welds 16" (23.8 mm, X52) 20 welds 10" (27 mm, 25%Cr) 20 welds 16" (20.6 mm, X52) 210 welds 8" (16.9 mm, 13%Cr) 210 welds 14" (17.5 mm, X52)
2009	Kito Enterprises (C-Master) for POGC	<b>South Pars 15 &amp; 16</b> Iran	<i>4 Saturnax stations</i> South Pars 15 : 107.82 km 32" (20.8 mm, X65) + 4.5" (6 mm, X52) - 8,838 welds 1 km 32" (28.8 mm, X65) + 4.5" (7.1 mm, X52) - 82 welds South Pars 16 : 111.71 km 32" (20.8 mm, X65) + 4.5" (6 mm, X52) - 9,157 welds 1 km 32" (28.8 mm, X65) + 4.5" (7.1 mm, X52) - 82 welds
2009	Cal Dive (Sea Horizon) for COOEC	<b>Weizhou</b> China	<i>1 Saturnax station + 3 STT-GSFCAW</i> *WZ6-8 WHPA to WZ12-1 WHPB (4.2 km) Inner pipe : 6.625" (11 mm, X65) Outer pipe : 10.75" (11.1 mm, X65) *WZ12-1PAP to WZIT (32.3 km) Inner pipe : 16" (17.5 mm, X65) Outer pipe : 22" (12.7 mm, X60)
2008	Technip for BP	<b>BP King South</b> USA (Mobile, AL)	<i>6 Saturnax stations</i> Flowline inner pipe 8450 feet : 212 welds 6.625" (18 mm, X65) Flowline Outer pipe 8450 feet : 212 welds 10.75" (13.4 mm, X65)
2005/ 2006	Technip (Spoolbase) for Total / BP	<b>Dalia UFL/Block 18 (Pre)</b> Angola (Dande)	<i>4 Saturnax stations (5G position)</i> Inner pipe: 793 welds 12" (17.5 mm, L450 QC) Outer pipe: 1,592 welds 17" (21.7 mm, L415 QC)
2003	Coflexip Stena Offshore (Deep Blue) for Shell	<b>Nakika, offshore</b> USA	<i>1 Saturnax + 1 GTAW station (2G position)</i> 2 x 725 welds 10.75" (20.6 mm) in 16" (19.1 mm.) - FL PIP  2 x 120 welds 10.75" (22.2 mm) in 16" (19.1 mm) - SCR PIP  2 x 120 welds 10.75" (22.2 mm) in 16" (19.1 mm) - SCR PIP
2002/ 2003/ 2004	Stolt Offshore (Polaris/Nigerdock) for Shell	<b>Bonga</b> Nigeria	<i>5 Saturnax stations + 2 GTAW (2G position)</i> 12.1 km 10" (20.6 mm, X65) FL - PIP 12.2 km 12" (22.2 mm, X65) FL - PIP 11.7 km 10" (25.4 mm, X65) FL - PIP
2002/ 2003	Coflexip Stena Offshore (Spoolbase) for Shell	<b>Nakika, prefab</b> USA	<i>4 Saturnax stations (5G position)</i> 473 welds 8.625" (19.1 mm) - PIP SCR 474 welds 12.75" (17.5 mm) - PIP SCR
1999	ETPM (Polaris) for Elf	<b>Tchibeli</b> Congo	<i>2 Saturnax stations</i> 25.6 km 10" (12.7 mm, X52) - Pipe-in-pipe

<b>Date</b>	<b>Contractor</b> <i>(vessel if offshore)</i> <b>Operator</b>	<b>Project</b> <b>Country</b>	<b>Number of Welding Stations</b> <b>Pipelines welded</b>
1996	McDermott-ETPM <i>(DLB1601)</i> for Texaco	<b>Erskine to Lomond</b> UK	<i>3 Saturnax stations</i> 30 km 16" (20.6 mm, X65) Pipe-in-pipe (16" within 24") 50 welds 16" Clad pipe : - Line pipe : 3 mm 304L + 11.9 mm - Forged elbows : 3 mm Inconel 625 + 11.9 mm
1994	McDermott-ETPM <i>(LB200)</i> for Total	<b>Dunbar to N. Alwyn</b> UK	<i>3 Saturnax stations</i> 22 km 16" (17.5 mm, X60) Pipe-in-pipe (16" within 20")