

Past, Ongoing and Future Projects

J-LAY

Date	Contractor (vessel if offshore) Operator	Project Country	Number of Welding Stations Pipelines welded
2015	Subsea 7 (Borealis) for Exxon	Ehra North Ph II Nigeria	<i>3 Saturnax stations</i> 706 welds 12.75" (23.8 mm, X65) - 8.6 km 880 welds 10.75" (20.6 mm, X65) - 10.8 km 162 welds 10.75" (23.8 mm, X65) - 2 km 150 welds 12.75" (25.4 mm, X65) - 1.8 km 15 welds 12.75" (25.4 +3 mm, X65+UNS) J-Lay with offshore double-joint pre-fabrication
2015	Subsea 7 (Borealis) for Tullow	TEN Subsea 7 Boeralis Ghana	<i>3 Saturnax stations</i> J-Lay Welding: 548 welds 8.625" (22 mm, X65) - 13.4 km 427 welds 8.625" (22 mm, X65) - 10.4 km 604 welds 8.625" (22 mm, X65) - 14.7 km TNAG Flowline - J-Lay: 216 welds 6.625" (16.9 mm, X65) - 5.3 km Termination PLETs (Dummy Joints) - J-Lay: 18 welds 11" (17.5 mm, X65) Gas Export Flowline - S-Lay: 1,386 welds 10.75" (14.6 mm, X65) - 33.8 km Buckle arrestors Gas Export - S-Lay: 2.3 km 10.75" (14.6 mm)
2014	Subsea 7 (Borealis) for Anadarko	Heidelberg USA	<i>1 saturnax station</i> 375 welds 8" (35.8 mm, X70) - SCR 572 welds 8" (35.8 mm, X70) - FL 84 welds 16" (22.22 mm, X65) - SCR 90 welds 16" (22.2 mm, X65) - FL 83 welds 16" (23.8 mm, X65) - SCR 447 welds 16" (23.8 mm, X65) - FL All J-Lay
2012	Subsea 7 (Seven Borealis) for Total E&P	Clov Angola	<i>3 Saturnax stations</i> J-LAY : 1,429 welds 12.75" (22.2 mm, X65) - 34.3 km 982 welds 12.75" (18.3 mm, X65) - 23.7 km 1,051 welds 12.75" (15.9 mm, X65) - 25.7 km 1,481 welds 10.75" (14.3 mm, X65) - 36.1 km S-LAY : 1,270 welds 12.75" (15.9 mm, X65) - 31 km 7 welds 12.75" (22.2 mm, X65) - 0.17 km
2012	Technip (Deep Blue) for ATP	ATP Clipper USA	Tie-in welds: 8.625" (11.1 mm, X52) - 2G manual welding 5.563" (12.7 mm, X65)

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2011	SapuraAcergy (Sapura 3000) for Shell	Gumusut J-Lay Malaysia	<p><i>1 Saturnax station + 2 SMAW-GSFCAW</i></p> <p>Flowlines: 860 welds 8,625" (20.6 mm, X65) - Sour service 119 welds 10,75" (20.6 mm, X65) - Sour service 200 welds 12,75" (25.4 mm, X65) 71 welds 18" (20.6 mm, X65)</p> <p>SCR: 466 welds 8,625" (20.6 mm, X65) - Sour service 111 welds 10,75" (25.4 mm, X65) - Sour service 27 welds 12,75" (28.6 mm, X65) 142 welds 18" (22.2 mm, X70) SCR (Thick End - for touch down section) 83 welds 8,625" (34.9 mm, X65) - Sour service 156 welds 12,75" (36.2 mm, X65) 17 welds 18" (32.0 mm, X70) Welding & NDT</p>
2010	Acergy (Polaris) for Total E&P Angola	Pazflor - Polaris Angola	<p><i>4 Saturnax stations</i></p> <p>S-Lay: Line 1: 1,379 welds 8" (12.7 mm, X65) Line 2: 990 welds 8" (12.7 mm, X65) Intermediate sour service</p> <p>J-Lay: Line 1: 309 welds 8" (12.7 mm, X65) Line 2: 472 welds 10" (15.9 mm, X65) Line 3: 239 welds 10" (15.9 mm, X65) Sweet service</p>
2009	Technip for Tullow	Jubilee USA (Mobile, AL)	<p><i>4 Automatic Welding Stations</i></p> <p>2,125 welds 12.75" (20.6 mm, X65) - Reeled 535 welds 12.75" (20.6 mm, X65) - J-Lay Quads 400 welds 10.75" (15.8 mm, X65) - J-Lay Quads 908 welds 12.75" (23.8 mm, X65) J-Lay Quads</p>
2009	Acergy (Polaris) for ExxonMobil	AB15 Gas Gathering Angola	<p><i>4 Saturnax stations</i></p> <p>S-Lay : 8,164 welds 18" (22.2 mm, X65) - 99.6 km 1,086 welds 10.75" (15.9 mm, X65) - 13.2 km 940 welds 10.75" (15.9 mm, X65) - 11.5 km All sour service</p> <p>J-Lay : 225 welds 18" (22.2 mm, X65) - 5.5 km 898 welds 16" (22.2 mm, X65) - 21.5 km 43 welds 16" (25.4 mm, X65) - 1.0 km - Fatigue sensitive, Single Hybride Riser All sour service</p>
2007	Technip (Deep Blue) for Petrobras	PDET J-Lay Project Brazil	<p><i>1 Saturnax J-Lay</i></p> <p>367 welds 18" (17.5 mm, X60) - Flowline 181 welds 18" (19.1 mm, X60) - Flowline 125 welds 18" (22.2 mm, X60) - Flowline 355 welds 18" (25.4 mm, X60) - Flowline 145 welds 18" (28.6 mm, X60) - Flowline 31 welds 18" (15.9 mm, X65) - SCR</p>
2006/2007	Stolt Offshore (Seaway Polaris) for BP Angola	Greater Plutonio URF Angola	<p><i>2 Saturnax stations</i></p> <p>496 welds 12.75" (17.5 mm, X60) - 12 km 1,624 welds 12.75" (19.1 mm, X60) - 41 km 948 welds 12.75" (20.6 mm, X60) - 20 km</p>

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2005/ 2006	Stolt Offshore (Polaris) for Exxon	Erha Nigeria	<p>1 Saturnax + 1 GTAW station (J-Lay) (auto STT root) 212 welds SCR 4.5" (11.1 mm, X65) 199 welds SCR 6.625" (15.9 mm, X65) 20 welds SCR 6.625" (15.9+4 mm, X65 + Inconel 825) 403 welds SCR 10.75" (20.6 mm, X65) 36 welds SCR 10.75" (20.6+4 mm, X65 + Inconel 825) 106 welds SCR 10.75" (23.8 mm, X65) 108 welds SCR 12.75" (34.3 mm, X65)</p> <p>2 Saturnax stations (S-Lay) (auto STT root) 102 welds OLL 20" (22.2 & 28 mm, X60) 318 welds OLL 22" (19.8 mm, X60)</p> <p>2006 : ERHA NORTH (J-Lay auto STT root) 805 welds 10.75" (20.6 mm, X65) 320 welds 6.625" (15.9 mm, X65)</p>
2005	Technip (DeepBlue) for ENI	K2 USA	<p>1 Saturnax station (2G position) 83 quad joints 7.625" (26.9 mm, X65) - SCR</p>
2004	Technip (Deep Blue) for Burullus Gas Co.	Simian / Sienna & Sapphire Egypt	<p>1 Saturnax station (2G position) Simian : 843 welds 26" (24.4 mm, L485) 151 welds 20" (21.2 mm, L450) Sapphire : 328 welds 26" (26.3 mm, L485)</p>
2003	Stolt Offshore (Polaris) for TotalFina Elf	Girassol Phase II Angola	<p>1 Saturnax station (2G position) 892 DJ 12" (14 mm, X65) - 22 km</p>
2003	Coflexip Stena Offshore (Deep Blue) for Shell	Nakika, offshore USA	<p>1 Saturnax + 1 GTAW station (2G position) 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 110 welds 18" (19.1 mm) - SCR 110 welds 20" (25.4 mm) - SCR</p>
2003	Coflexip Stena Offshore (Spoolbase) for Williams	Devils Tower, prefab USA	<p>4 Saturnax stations (5G position) 10,091 welds 18" (22.2 mm, X60) 1,602 welds 18" (23.8 mm, X60) 5,207 welds 18" (25.4 mm, X60) 3,182 welds 18" (28.6 mm, X60) 768 welds 14" (20.6 mm, X60) 768 welds 14" (22.2 mm, X60)</p>
2002/ 2003/ 2004	Stolt Offshore (Polaris/Nigerdock) for Shell	Bonga Nigeria	<p>5 Saturnax stations + 2 GTAW (2G position) (auto STT root) J-Lay, S-Lay Export Line : 15 km 16" (11.9 mm, X65) FL 73 km 16" (15.9 mm, X65) FL 3.7 km 16" (20.6 mm, X52) SCR Production Line : 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 1.0 km 10" (28.4 mm, X52 + clad 625/825) SCR 3.9 km 12" (28.6 mm, X52) SCR 0.4 km 12" (28.6 mm, X52 + clad 625/825) SCR 8.89 km 10" (25.4 mm, X52) SCR Water Injection : 19 km 12" (20.6 mm, X52 + clad 625) FL (STT root pass Saturnax for remaining passes)</p> <p>5.8 km 12" (27 mm, X52 + clad 625) FL 2.3 km 12" (27 mm, X52 + clad 625) SCR 1.0 km 12" (30 mm, X52 + clad 625) SCR</p>

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2001	Stolt Offshore (Polaris) for Elf Angola	Girassol Angola	<i>1 Saturnax station (2G position)</i> 6.3 km 12" (14 mm) 10 km 12" (22.3 mm) Flowlines - J-Lay (1,450 m water depth)