

REFERENCED DRAWING: I-RM-3A00.00-1519-291-PZ9-005 R0


CBS Nº .: 4600641834

PCS Nº .: 4511254834

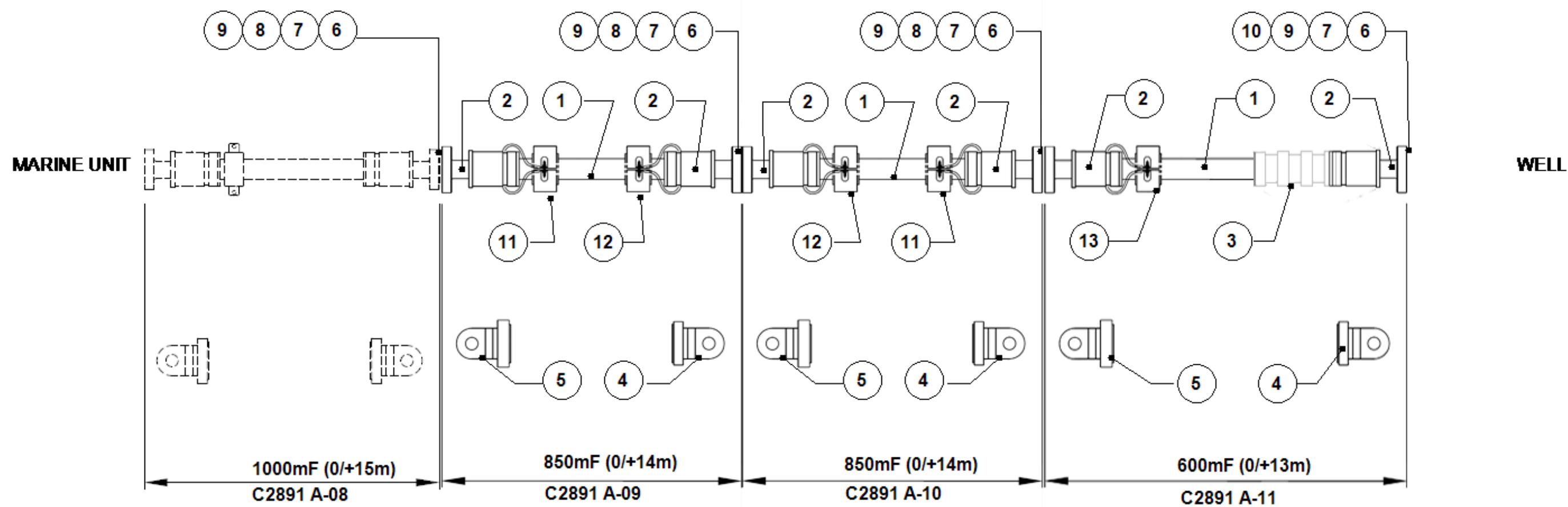
| REVISIONS |                              |          |           |
|-----------|------------------------------|----------|-----------|
| REV       | DESCRIPTION                  | APPROVED | DATE      |
| 6         | According to ECR WS00077208. | RMs      | 9/16/2022 |
| 7         | DRAFT                        |          |           |

|  |  |    |     |     |        |   |        |                        |   |   |         |  |
|--|--|----|-----|-----|--------|---|--------|------------------------|---|---|---------|--|
|  |  | 16 | 110 | 430 | 1      | - | -      | PT-PRT-379021          | - | Abrasion Protection (3 meters)  | (4)     |  |
|  |  | 15 | 170 | 410 | 1      | - | -      | CB-AC1522553-00-01     | - | Anchor Collar, 6" ID Gas Injection Flexible Flowline (SWL= 80tf)  | (4)     |  |
|  |  | 14 | 100 | 380 | 3      | - | -      | ENG-R-3121             | - | Repair Kit to WSI 152.2553-RD-4042-6  | (3)     |  |
|  |  | 13 | 160 | 470 | 162 kg | - | -      | CB-TDC2891XX-00-01     | - | Anode Collar for Service Life 27 Kg (6 per EndFitting, Drawing Number CB-TDXXXXXXX-00-01.14AA) + Neoprene Blanket                       |         |  |
|  |  | 12 | 150 | 470 | 216 kg | - | -      | CB-TDC2891XX-00-01     | - | Anode Collar for Service Life 27 Kg (4 per EndFitting, Drawing Number CB-TDXXXXXXX-00-01.14AC) + Neoprene Blanket                       |         |  |
|  |  | 11 | 140 | 470 | 162 kg | - | -      | CB-TDC2891XX-00-01     | - | Anode Collar for Service Life 27 Kg (3 per EndFitting, Drawing Number CB-TDXXXXXXX-00-01.14AD) + Neoprene Blanket                       |         |  |
|  |  | 10 | 90  | 500 | 1      | - | -      | N/A                    | - | Set of Studs and Bolts, 7 1/16" API 6BX Rotative Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For Installation)             | (1) (2) |  |
|  |  | 9  | 80  | 510 | 6      | - | -      | N/A                    | - | Set of Studs and Bolts, 7 1/16" API 6BX Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For transport and tests)               | (1) (2) |  |
|  |  | 8  | 70  | 520 | 3      | - | -      | N/A                    | - | Set of Studs and Bolts, 7 1/16" API 6BX Flange, 10000 psi, BX 156 , For Tensioner Hydratight HL (For Installation)                      | (1) (2) |  |
|  |  | 7  | 120 | 480 | 6      | - | -      | N/A                    | - | Seal Ring BX 156 AISI 316L (For transports and tests)   |         |  |
|  |  | 6  | 60  | 490 | 4      | - | -      | N/A                    | - | Seal Ring BX 156 Inconel 625 (For Installation)   |         |  |
|  |  | 5  | 50  | 540 | 3      | - | -      | CB-TH152XXXX-00-02     | - | Installation Test Head, 7 1/16" API 6BX Flange, 10000 psi, BX 156 (SWL= 500 tf)   |         |  |
|  |  | 4  | 40  | 550 | 3      | - | -      | CB-TH152XXXX-00-01     | - | Handling Test Head, 7 1/16" API 6BX Flange, 10000 psi, BX 156 (SWL= 55 tf)  |         |  |
|  |  | 3  | 30  | 440 | 1      | - | -      | CB-BR1522553-00-01     | - | Bend Restrictor, 6" ID Gas Injection Flowline 72 Degrees (Splited)  |         |  |
|  |  | 2  | 20  | 390 | 6      | - | -      | CB-EF1522540-00-05     | - | End Fitting 6" ID Gas Injection Flowline 7 1/16" API 6BX Flange, 10000 psi, BX 156 With N2 Seal Port - Single Barrier - Full Protection |         |  |
|  |  | 1  | 10  | 370 | 2300 m | - | 1000 m | WSI 152.2553-RD-4042-6 | - | 6" ID Gas Injection Flexible Flowline   | (5)     |  |

|   | ITEM | PCS ITEM | CBS ITEM | NEW QTY. | SPARE QTY. | SUPPLIED BY CLIENT | DOCUMENT Nº | REV Nº | DESCRIPTION | NOTES | CHECK |
|---|------|----------|----------|----------|------------|--------------------|-------------|--------|-------------|-------|-------|
| <b>LEGEND:</b> <b>N/A : MEANS NOT APPLICABLE.</b> <b>TBD: MEANS TO BE DEFINED.</b> <b>ITEMS TO BE ASSEMBLED OFFSHORE.</b> <b>ITEMS TO BE PARTIAL ASSEMBLED OFFSHORE.</b> <b>ITEMS TO BE DELIVERED WITH OFFSHORE ONES.</b>   |      |          |          |          |            |                    |             |        |             |       |       |
| <b>NOTES :</b> (1) - 1 1/2"- 8 UN x 15 1/2" BOLTS (12 PER FLANGE), BICHROME OVER CADMIUM. 1 1/2" - 8 UN NUTS (24 PER FLANGE), BICHROME OVER CADMIUM.       (3) - Each repair kit contains enough material for two meters of pipe.       (4) - Items from pipe C2891 A-08.       (5) - Pipe C2891 A-08 at C2891.2 UN-29.      (2) - IN ACCORDANCE WITH MTL-6040. |      |          |          |          |            |                    |             |        |             |       |       |

|   |  |                            |      |   |                                      |   |                           |
|---|--|----------------------------|------|---|--------------------------------------|---|---------------------------|
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| <br><b>Baker Hughes</b>  | ENGINEERED BY:<br><b>Tobias Campos</b> | DATE:<br><b>16/12/2021</b> | REV: | <b>BMS-11 FIELD DEVELOPMENT</b><br><br><b>COMPOSITION DRAWING - Gas Injection - -/IG-14 - SMP03</b> |                                      |   | SHEET.:<br><br><b>1/2</b> |
|   | CHECKED BY:<br><b>Filipe Alvarenga</b> | DATE:<br><b>20/12/2021</b> |      |   |                                      |   |                           |
|   | APPROVED BY:<br><b>João Lima</b>       | DATE:<br><b>21/12/2021</b> |      | CLIENT:<br><br><b>Petrobras</b>   | TOP CONFIGURATION:<br><br><b>N/A</b> | DRAWING NUMBER:<br><br><b>C2891.2 UN-03</b> | REV.:                     |

## ← LAUNCHING SEQUENCE



Somente os tramos C2891 A-10 e C2891 A-11 serão utilizados nesta operação

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ENGINEERED BY:  
Tobias Campos

DATE:  
16/12/2021

REV:

TITLE:

BMS-11 FIELD DEVELOPMENT

SHEET.:

CHECKED BY:  
Filipe Alvarenga

DATE:  
20/12/2021

REV:

TITLE:

COMPOSITION DRAWING - Gas Injection - -/IG-14 - SMP03

2/2

APPROVED BY:  
João Lima

DATE:  
21/12/2021

REV:

CLIENT:

Petrobras

TOP CONFIGURATION:

N/A

DRAWING NUMBER:

C2891.2 UN-03

REV.: