**COMMONWEALTH OF AUSTRALIA**

***Section 708***

***Offshore Petroleum and Greenhouse Gas Storage Act 2006***

**APPLICATION FOR GRANT OF A PIPELINE LICENCE – SPARTAN**

I, **GRAEME ALBERT WATERS**, the National Offshore Petroleum Titles Administrator, on behalf of the Commonwealth–Western Australia Offshore Petroleum Joint Authority hereby give notice pursuant to section 708 of the *Offshore Petroleum and Greenhouse Gas Storage Act 2006* that an application has been received from

**Santos WA Southwest Pty Limited**

(ACN 050 611 688)

**Santos (BOL) Pty Lt**

(ACN 000 670 575)

for the grant of a pipeline licence for the conveyance of petroleum in the offshore area of Western Australia, as set out below.

A person may make a written submission to the Titles Administrator about this application within 30 days from the date of this notice.

This notice takes effect on the day in which it appears in the

*Australian Government Gazette.*

Made under the *Offshore Petroleum and Greenhouse Gas Storage Act 2006*

of the Commonwealth of Australia.

**GRAEME ALBERT WATERS**

TITLES ADMINISTRATOR

ON BEHALF OF THE COMMONWEALTH-WESTERN AUSTRALIA

OFFSHORE PETROLEUM JOINT AUTHORITY

**ROUTE OF THE PIPELINE**

The pipeline route is described in the table hereunder and displaced in the attached map (**Attachment A**), commencing at the diverless connector on the gooseneck assembly downstream of the Spartan XT hub to the upstream flange on end of flexible at interface to topside shut down flange on the John Brookes Platform.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Feature ID** | **Feature Name** | **KP** | **Easting**  **(mE)** | **Northing**  **(mN)** | **Bend**  **Radius** |
| 1 | Diverless connector on the gooseneck assembly downstream of the Spartan XT hub |  | 317 337.26 | 7 728 381.00 |  |
| 2 | TP1A | 0.023 | 317 312.17 | 7 728 381.00 |  |
| 3 | IP1 |  | 317 291.31 | 7 728 381.00 | 50.00 |
| 4 | TP1B | 0.063 | 317 276.64 | 7 728 395.82 |  |
| 5 | TP2A | 3.859 | 314 605.87 | 7 731 093.11 |  |
| 6 | IP2 |  | 314 526.03 | 7 731 173.75 | 1000.00 |
| 7 | TP2B | 4.085 | 314 430.15 | 7 731 234.44 |  |
| 8 | TP3A | 13.841 | 306 186.38 | 7 736 453.01 |  |
| 9 | IP3 |  | 306 010.15 | 7 736 564.57 | 1130.00 |
| 10 | TP3B | 14.254 | 305 885.36 | 7 736 731.68 |  |
| 11 | TP4A | 14.943 | 305 472.80 | 7 737 284.16 |  |
| 12 | IP4 |  | 305 186.66 | 7 737 667.36 | 1200.00 |
| 13 | TP4B | 15.853 | 304 715.38 | 7 737 748.69 |  |
| 14 | Upstream flange on end of flexible at interface to topside shut down flange on the John Brookes Platform |  | 303 895.34 | 7 737 890.25 |  |

**Coordinates are based on the GDA94 Geodetic datum, MGA Zone 50**

**SPECIFICATIONS**

**Design and Construction**

The offshore pipeline will be designed and constructed in accordance with the following design codes and standards:

|  |  |
| --- | --- |
| **Document Number** | **Title** |
| API 17J | Specification for Unbonded Flexible Pipe |
| API RP 17B | Recommended Practice for Flexible Pipe |
| API 17N | Recommended Practise for Subsea Production System Reliability, Technical Risk & Integrity Management |
| API Spec 17L1 | Specification for Flexible Pipe Ancillary Equipment |
| API RP 17L2 | Recommended practice for flexible pipe ancillary equipment |
| API Technical Report 17TR1 | Evaluation Standard for Internal Pressure Sheath Polymers for High Temperature Flexible Pipes |
| API Technical Report 17TR2 | The Ageing of PA-12 in Flexible Pipes |
| API Specification 6A | Specification for Wellhead and Christmas Tree Equipment |
| DNVGL-RP-B401 | Cathodic Protection Design |
| DNVGL-RP-F103 | Cathodic Protection of Submarine Pipelines by Galvanic Anodes |
| DNVGL-RP-F109 | On-Bottom Stability Design of Submarine Pipelines |
| EN 10204 | Metallic Products-Type of Inspection Documents |
| DNVGL-RP-F112 | Design of duplex stainless-steel subsea equipment exposed to cathodic protection |
| DNVGL-RP-O501 | Managing sand protection and erosion |

**Basis of Design**

The pipeline design is based on the following parameters:

|  |  |  |
| --- | --- | --- |
| **Item** | **Item Description** | **Details** |
| 1 | Outside diameter of pipe and riser | XT Connector (Gooseneck Pipe): 7.38” (187.5 mm)  HOT Section: 263.92 mm  MID/COLD Sections: 264.51 mm |
| 2 | Wall thickness of pipe inclusive of riser (only for carbon steel) | XT Connector: Gooseneck Pipe 1” (25.4 mm)  Internal Cladding Inconel 625, 0.125” (3.2 mm) min thickness  HOT Section: 30.36 mm  MID/COLD Sections: 30.66 mm |
| 3 | Length | 16.7 km (approximate) |
| 4 | Design life | 20 years (approximate) |
| 5 | Pipeline Material | Flexible steel |
| 6 | Pipeline and Riser Steel Grade | XT Connector – Gooseneck Pipe: Steel API 5L X70  HOT/MID/COLD Section Carcass Material: Duplex Stainless Steel |
| 7 | Pipeline Specification | XT Connector – Gooseneck Pipe: API 5L X70  HOT/MID/COLD Sections: Duplex Stainless Steel carcass |
| 8 | Minimum yield strength of pipe steel | XT Connector – Gooseneck Pipe: 70 ksi  HOT/MID/COLD Section: N/A |
| 9 | Maximum Allowable Operating Pressure | 22.5 MPa |
| 10 | Design Capacity | 102 MMscf/d |
| 11 | Minimum/ Maximum Design Temperature | |  |  |  |  | | --- | --- | --- | --- | | XT Connector  (Gooseneck & Connector) | HOT Section | MID Section | COLD Section | | Min: -18 °C | Min: -18 °C | Min: -18 °C | Min: -18 °C | | Max: 121 °C | Max: 120 °C | Max: 80 °C | Max: 60 °C | |
| 12 | Operating Temperature | Maximum: 115 °C  Minimum: 0 °C |
| 13 | Characteristics of substance proposed to be conveyed | The production fluid is a combination of gas, condensate and water. |
| 13 | General plans and descriptions of pump stations, tank stations or valve stations and their equipment | N/A |
| 14 | General plans and description of pigging facilities | N/A |
| 15 | Cathodic protection | Cathodic protection at XT Connector provided by XT. Bracelet anodes at each midline connection and end connections. |
| 16 | Stabilisation | Concrete stabilisation mattresses |

**Attachment A**

