



PRELIMINARY INFORMATION
The final drawing will be handed over to contractor at the project kick-off meeting.

NOTE 5

No	SUPPORT TYPE	BUNDLE	FUNCTION	RISER ID [IN]	DIRECTION	SUPPORT TOP ANGLE [DEG]	SUPPORT LOCAL ANGLE (NOTE 2) [DEG]
1	I-TUBE/BELL MOUTH	UMBILICAL SPARE 1	UMBILICAL STU/PRM	UEH 12F+CE/TBD	PORTSIDE	TBD	TBD
2S	RECEPTACLE	WAG LOOP 1	WATER/GAS INJECTION	8	PORTSIDE	TBD	TBD
3	I-TUBE/BELL MOUTH	OPTICAL CABLE 1	COMMUNICATION	-	PORTSIDE	TBD	TBD
4S	RECEPTACLE	OIL PRODUCTION 1	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
5	I-TUBE/BELL MOUTH		SERVICE	4	PORTSIDE	TBD	TBD
6	I-TUBE/BELL MOUTH	OIL PRODUCTION 2	SERVICE	4	PORTSIDE	TBD	TBD
6S	RECEPTACLE		5,13	PORTSIDE	TBD	TBD	
7	I-TUBE/BELL MOUTH	SDU-01	UMBILICAL	UEH 12F+CE	PORTSIDE	TBD	TBD
8	I-TUBE/BELL MOUTH	OIL PRODUCTION 9	SERVICE	4	PORTSIDE	TBD	TBD
9S	RECEPTACLE	PRODUCTION/WAG 1	SERVICE/GAS INJECTION	8	PORTSIDE	TBD	TBD
10	I-TUBE/BELL MOUTH		OIL PROD./WATER INJ.	8	PORTSIDE	TBD	TBD
10S	RECEPTACLE		8	PORTSIDE	TBD	TBD	
11	I-TUBE/BELL MOUTH	OIL PRODUCTION 2	OIL PRODUCTION	8	STARBOARD	TBD	TBD
12	I-TUBE/BELL MOUTH	SDU-02	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
13	I-TUBE/BELL MOUTH	OIL PRODUCTION 3	SERVICE	4	STARBOARD	TBD	TBD
14	I-TUBE/BELL MOUTH	OIL PRODUCTION 4	SERVICE	4	STARBOARD	TBD	TBD
15	I-TUBE/BELL MOUTH	SDU-03	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
16	I-TUBE/BELL MOUTH	OIL PRODUCTION 5	SERVICE	4	STARBOARD	TBD	TBD
17S	RECEPTACLE	WAG LOOP 1	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
18S	RECEPTACLE	OIL PRODUCTION 3	OIL PRODUCTION	8	STARBOARD	TBD	TBD
19S	RECEPTACLE	OIL PRODUCTION 4	OIL PRODUCTION	8	STARBOARD	TBD	TBD
20S	RECEPTACLE	WAG LOOP 2	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
21S	RECEPTACLE	OIL PRODUCTION 5	OIL PRODUCTION	8	STARBOARD	TBD	TBD
22S	RECEPTACLE	WAG LOOP 2	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
23S	RECEPTACLE	OIL PRODUCTION 6	SERVICE/GAS INJECTION	8	STARBOARD	TBD	TBD
24S	RECEPTACLE	WAG LOOP 3	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
25S	RECEPTACLE	MSGL-1	LIFT GAS	5,125	STARBOARD	TBD	TBD
26S	RECEPTACLE	OIL PRODUCTION 7	OIL PRODUCTION	8	STARBOARD	TBD	TBD
27S	RECEPTACLE	WAG LOOP 3	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
28	I-TUBE/BELL MOUTH	MSGL-1	SERVICE	4	STARBOARD	TBD	TBD
29	I-TUBE/BELL MOUTH	SDU-04	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
30	I-TUBE/BELL MOUTH	OIL PRODUCTION 6	SERVICE	4	STARBOARD	TBD	TBD
31	I-TUBE/BELL MOUTH	PRODUCTION/WAG 2	OIL PROD./WATER INJ.	8	STARBOARD	TBD	TBD
32	I-TUBE/BELL MOUTH	OIL PRODUCTION 7	SERVICE	4	STARBOARD	TBD	TBD
33	I-TUBE/BELL MOUTH	PRODUCTION/WAG 2	SERVICE/GAS INJECTION	8	STARBOARD	TBD	TBD
34	I-TUBE/BELL MOUTH	SDU-05	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
35	I-TUBE/BELL MOUTH	OIL PRODUCTION 8	OIL PRODUCTION	8	STARBOARD	TBD	TBD
36	I-TUBE/BELL MOUTH		SERVICE	4	STARBOARD	TBD	TBD
37	I-TUBE/BELL MOUTH	WAG LOOP 4	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
38	I-TUBE/BELL MOUTH	OIL PRODUCTION 9	OIL PRODUCTION	8	STARBOARD	TBD	TBD
39	I-TUBE/BELL MOUTH	SDU-06	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
40	I-TUBE/BELL MOUTH	WAG LOOP 4	WATER/GAS INJECTION	8	STARBOARD	TBD	TBD
41	I-TUBE/BELL MOUTH	OIL PRODUCTION 10	OIL PRODUCTION	8	STARBOARD	TBD	TBD
42	I-TUBE/BELL MOUTH	OIL PRODUCTION 11	OIL PRODUCTION	8	PORTSIDE	TBD	TBD
42S	RECEPTACLE		OIL PRODUCTION	8	PORTSIDE	TBD	TBD
43	I-TUBE/BELL MOUTH	SDU-07	UMBILICAL	UEH 12F+CE	STARBOARD	TBD	TBD
44S	RECEPTACLE	PRODUCTION/WAG 3	SERVICE/GAS INJECTION	8	PORTSIDE	TBD	TBD
45S	RECEPTACLE		OIL PROD./WATER INJ.	8	PORTSIDE	TBD	TBD
46	I-TUBE/BELL MOUTH	OIL PRODUCTION 12	SERVICE	4	PORTSIDE	TBD	TBD
46S	RECEPTACLE		SERVICE	5,13	PORTSIDE	TBD	TBD
47	I-TUBE/BELL MOUTH		OIL PRODUCTION	8	PORTSIDE	TBD	TBD
47S	RECEPTACLE		OIL PRODUCTION	8	PORTSIDE	TBD	TBD
48	I-TUBE/BELL MOUTH	UMBILICAL SPARE 2	UMBILICAL STU/PRM	UEH 12F+CE/TBD	PORTSIDE	TBD	TBD

REFERENCE DOCUMENTS

1- GENERAL TECHNICAL DESCRIPTION

GENERAL NOTES

- REFER TO GTD AND ET-SMRS FOR I-TUBE/BELLMOUTHS, RECEPTACLES, INTERFACE FLANGES AND SPOOLS SPECIFICATION.
- LOCAL ANGLES ARE INFORMED IN RELATION TO THE BOW OF THE VESSEL, POSITIVE CLOCKWISE.
- THE RISER FUNCTIONS HEREIN DEFINED ARE INTENDED FOR FLUIDS DISTRIBUTION IN THE BALCONY AREA. THE RISER INTERFACE SPOOLS SUPPLY SCOPE (CONTRACTOR'S SCOPE) DEPEND ON THE INSTALLATION CAMPAIGN STRATEGY DEFINED BY PETROBRAS AND WILL BE INFORMED DURING EXECUTION PHASE.
- THE SUPPORTS 2S, 4S, 6S, 9S, 10S, 17S, 18S, 19S, 20S, 21S, 22S, 23S, 24S, 25S, 26S, 27S, 42S, 44S, 45S, 46S AND 47S ARE FOR SLWR ONLY (GAS INJECTION, SERVICE/LG OR OIL PRODUCTION RIGID).
- SUPPORTS 17S TO 27S WILL BE FOR SLWR IN KELL-HAULING.

0	ORIGINAL ISSUE	08/05/20	HELVIO F. SILVA	THIAGO DUARTE	GUSTAVO ADOLFO
REV.	DESCRIPTION	DATE	EXEC.	CHECK	APPROV.

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SUB / ES

CLIENT	E&P		
JOB	SANTOS BASIN DEVELOPMENT		
AREA	SANTOS BASIN		
TITLE	RISER SUPPORTS ARRANGEMENT CONCEPTUAL DESIGN - FPSO BALCONY		
DESIGN	SUB/ES	EXEC. HELVIO F. SILVA	APPROV. GUSTAVO ADOLFO
SCALE	NO SCALE	DRAWING	SHEET 01 de 01
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