

ZAS-2051 - 2064, 2061 - 2064

PIG LAUNCHER

DP, kPag / DT, °C: 28,000 / 93.3
MATERIAL: BODY: CARBON STEEL + 3mm-CA

ZAS-2070

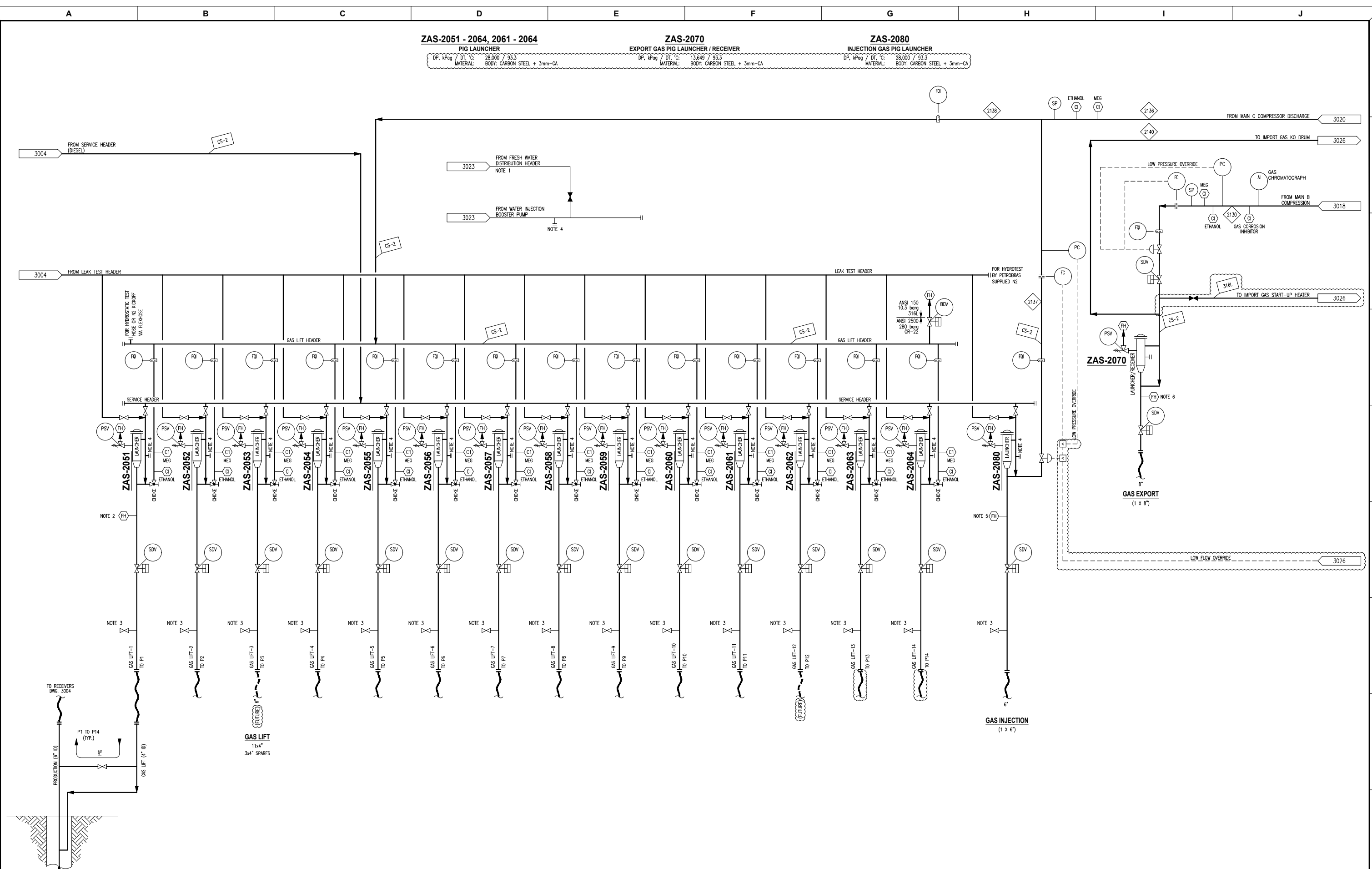
EXPORT GAS PIG LAUNCHER / RECEIVER

DP, kPag / DT, °C: 13,649 / 93.3
MATERIAL: BODY: CARBON STEEL + 3mm-CA

ZAS-2080

INJECTION GAS PIG LAUNCHER

DP, kPag / DT, °C: 28,000 / 93.3
MATERIAL: BODY: CARBON STEEL + 3mm-CA



- NOTES:**
- THIS LINE SHALL BE USED DURING FIRST OIL START-UP OPERATION.
 - GAS LIFT RISER DEPRESSURIZING TO BE WITHIN 3 HOURS AND WITH NO PRODUCTION DISTURBANCE. TYPICAL FOR ALL GAS LIFT RISERS.
 - BLINDED COIL TUBING CONNECTION.
 - FILLING CONNECTION FOR RISER LEAK TEST. DEAERATED SEAWATER SHALL BE USED. HARD PIPE CONNECTION CLOSE TO THE FILL POINT IS PROVIDED.
 - GAS INJECTION RISER DEPRESSURIZING TO BE WITHIN 3 HOURS AND WITH NO PRODUCTION DISTURBANCE.
 - GAS EXPORT RISER DEPRESSURIZING TO BE WITHIN 3 HOURS AND WITH NO DISTURBANCE TO PRODUCTION.
 - ~~DELETED~~
- HOLDS:**
- ~~DELETED~~

ISSUED FOR CONSTRUCTION
25 AUGUST 2015

CONFIDENTIAL AGREEMENT

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REV	DATE	REVISION DESCRIPTION	ORIG	CHKD	LDE	EM
0	25AUG15	IFC	VPN	LAL	SVK	TXM
C1	13APR15	REVISED - IFD	VPN	SAH	SVK	TXM
C	19JAN15	IFR	VPN	SAH	SVK	TXM
B4	04NOV14	IFR	VPN	KN	MY	TXM

Schahin **MODEC**

Drawn by: V. NUESTRO
Checked by: S. ANAND
Date: 03 NOVEMBER 2014
Scale: NONE

MODEC DOC FILE: 0428-MI20-90DP-3005-01-0.dwg

PETROBRAS

PROJECT: FPSO Cidade de Campos dos Goytacazes MV29

TITLE: PROCESS / UTILITY FLOW DIAGRAM
SUBSEA, RISER AND MANIFOLD
SHEET 2

MODEC DOCUMENT NUMBER: 0428-MI20-90DP-3005
REV: 0