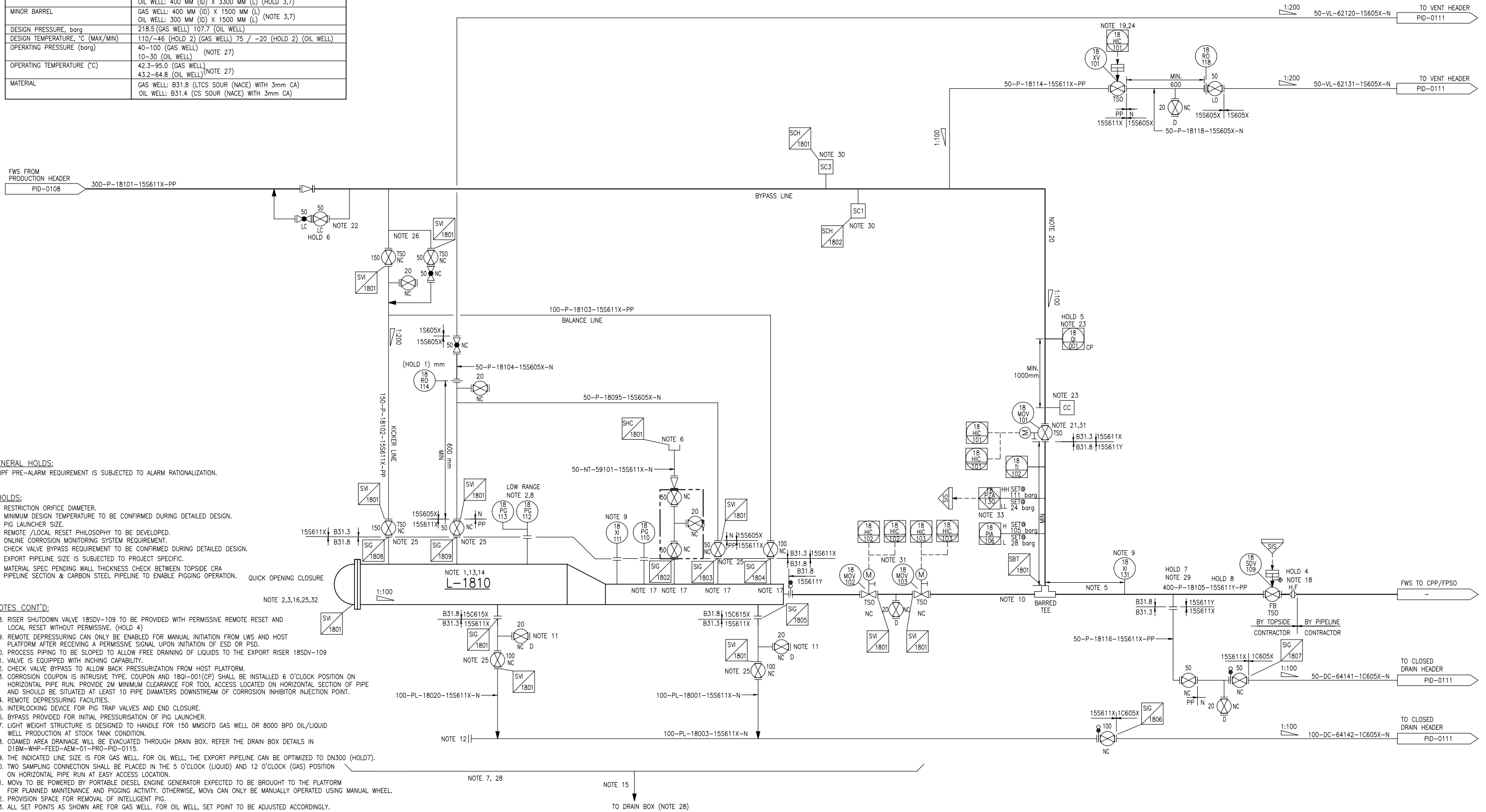


ITEM No.	L-1810
NAME	PIG LAUNCHER
MAJOR BARREL	GAS WELL: 450 MM (ID) X 3900 MM (L) (HOLD 3,7) OIL WELL: 400 MM (ID) X 3300 MM (L) (HOLD 3,7)
MINOR BARREL	GAS WELL: 400 MM (ID) X 1500 MM (L) OIL WELL: 300 MM (ID) X 1500 MM (L) (NOTE 3,7)
DESIGN PRESSURE, barg	218.5 (GAS WELL) 107.7 (OIL WELL)
DESIGN TEMPERATURE, °C (MAX/MIN)	110/-46 (HOLD 2) (GAS WELL) 75 / -20 (HOLD 2) (OIL WELL)
OPERATING PRESSURE (barg)	40-100 (GAS WELL) (NOTE 27) 10-30 (OIL WELL)
OPERATING TEMPERATURE (°C)	42.3-95.0 (GAS WELL) 43.2-64.8 (OIL WELL) (NOTE 27)
MATERIAL	GAS WELL: B31.8 (LTC5 SOUR (NACE) WITH 3mm CA) OIL WELL: B31.4 (CS SOUR (NACE) WITH 3mm CA)



CAD PRODUCED DRAWING - NO MANUAL REVISION ALLOWED

NOTES:

1. LAUNCHER SHALL BE DESIGNED FOR INTELLIGENT PIGGING.
2. LOW PRESSURE INDICATOR TO ENSURE FULL DEPRESSURIZATION BEFORE OPENING BARREL DOOR. ENSURE PG CLOSURE CAN BE VIEWED AT END CLOSURE SIDE.
3. THE END CLOSURE SHALL BE QUICK ACTING TYPE AND CONFORM TO GENERAL REQUIREMENT OF ASME VIII DIV.1. OPENING SHALL BE EQUIPPED WITH INTERLOCK WITH PRESSURE INDICATING DEVICE.
4. RISER SHALL HAVE 30 BEND.
5. THE MINIMUM LENGTH FROM BARRED TEE TO 18X1-131 IS EQUAL TO THE MAXIMUM LENGTH OF PIG.
6. N2 PURGING/CHEMICAL INJECTION CONNECTION.
7. SUFFICIENT CLEARANCE SHALL BE PROVIDED BETWEEN RECEIVER AND COAMED AREA.
8. INDIVIDUAL DOUBLE BLOCK AND BLEEDS FOR 18PG-112 AND 18 PG-113.
9. INTRUSIVE TYPE PIG SIGNALLER SHALL BE PROVIDED.
10. LAUNCHER PIPING INTERNAL DIAMETER SHALL BE EQUAL TO PIPELINE I.D.
11. TELL-TALE VALVE TO ENSURE COMPLETE DRAINING BEFORE OPENING THE END CLOSURE.
12. ROODING POINT TO BE PROVIDED ALONG LENGTH OF PIPE.
13. LAUNCHER AND INLET PIPING NOT HAVE OBSTRUCTION INTO THE PIG FLOW PATH.
14. PROVIDE SUFFICIENT DECK SPACE FOR CRANE LIFTING OF PIG.
15. THIS IS INDICATIVE TO SHOW CONTINUATION TO DRAIN BOX. NO LINE NUMBER REQUIRED.
16. ENSURE FLANGE CONNECTION ON QUICK OPENING CLOSURE TO FACILITATE OPERATION IN THE EVENT OF LAUNCHER DOOR FAILURE.
17. NOZZLE SHALL BE AS CLOSE AS POSSIBLE TO THE PIG TRAP VALVE.

																		CONTRACT NO	CHO/2018/MA/1007(D)			
																		JOB NO.	MAJOR/D/GTS/D1BM/0019			
																		DRAWN BY	HWN			
																		DATE	26.03.20			
																		SCALE	N.T.S			
																		CHECKED	ZM			
																		DATE	06.04.20			
																		APPROVED	FM			
				0	APPROVED FOR DETAILED DESIGN					03.07.20	TKS	TPH	FM	ZMY	PM			DATE	06.04.20			
DRAWING NO.	REV.	REFERENCE DRAWING	REV.		DESCRIPTION	DATE	DRAWN	CHK'D	APP'D	CHK'D	APP'D								AEM	PETRONAS		
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PROJECT TITLE :	PROVISION OF FRONT END ENGINEERING DESIGN (FEED) SERVICES FOR DESIGN ONE BUILD MANY (D1BM) PROJECT
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DRAWING TITLE :	PIPING AND INSTRUMENTATION DIAGRAM PIG LAUNCHER
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CONTRACTOR LOGO :



AkerSolutions



PETROLIAM NASIONAL BERHAD (PETRONAS)
(20076-K)

PETRON

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DRAWING NO:

0110

DISCIPLINE

SHEET NO.

REVISION N

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