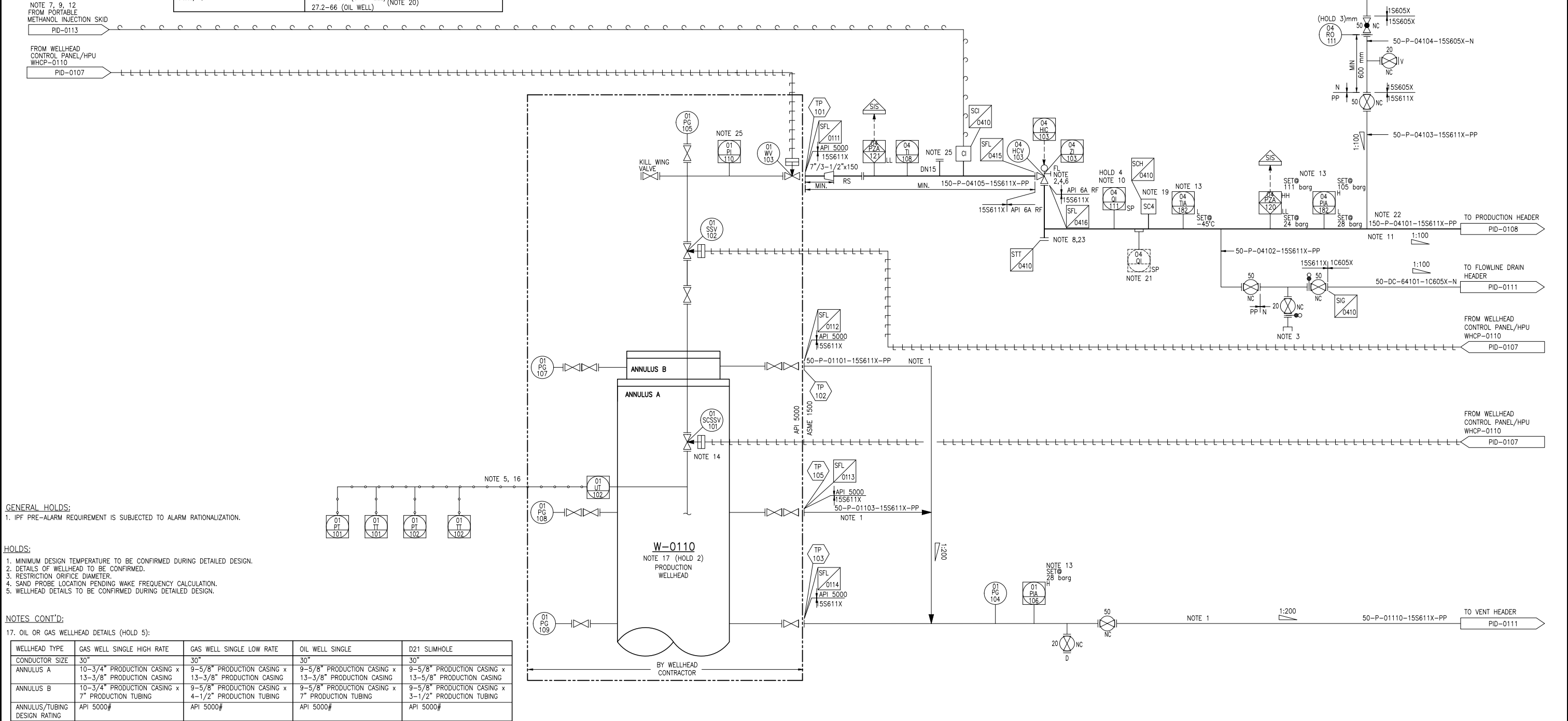


ITEM No.	W-0110
NAME	PRODUCTION WELLHEAD
DESIGN RATING	API 5000
DESIGN TEMPERATURE, °C	120 / -50 HOLD 1 (GAS WELL) 80/-20 HOLD 1 (OIL WELL)
DESIGN PRESSURE, barg	218.5 (GAS WELL) 107.7 (OIL WELL) (NOTE 24)
OITHP, barg	218.5 (GAS WELL) 107.7 (OIL WELL)
FTHP, barg	85.8-195.7 (GAS WELL) (NOTE 20) 13.0-67.0 (OIL WELL)
FTHT, °C	49.4-108.6 (GAS WELL) (NOTE 20) 27.2-66 (OIL WELL)



NOTES: 1. ANNULUS BLEED CONNECTION. 2. ACTUATED CHOKE VALVE TO BE CAPABLE OF REMOTE AND LOCAL ACTIVATION. 3. N2 CONNECTION FOR PRESSURIZATION. 4. DELETED. 5. THREE PRESSURE DOWNHOLE GAUGE SYSTEMS ARE PROVIDED ON WELLHEAD W-0110, W-0130 AND W-0150. 6. CONTINUOUS POSITION INDICATOR. 7. METHANOL INJECTION TO ONE WELL AT A TIME DURING START-UP. 8. FLOWLINES TO BE DESIGNED TO MINIMISE SAND EROSION AND ALL CHANGES OF DIRECTION TO BE TARGET TEES. 9. METHANOL INJECTION POINT WITH TUBING SHALL BE ACCESSIBLE AT WHERE THE PORTABLE METHANOL INJECTION PACKAGE WILL BE LOCATED. 10. INTRUSIVE SAND PROBE SHALL BE INSTALLED IN 12 O'CLOCK ON HORIZONTAL PIPE. 11. PROCESS PIPING TO BE SLOPED TO ALLOW FREE DRAINING OF LIQUIDS TO THE EXPORT RISER. 12. METHANOL INJECTION TO BE PROVIDED DURING START-UP ONLY USING PORTABLE METHANOL INJECTION PACKAGE. 13. ALL SET POINTS AS SHOWN ARE FOR GAS WELL. FOR OIL WELL, SET POINT TO BE ADJUSTED ACCORDINGLY. 14. ALL WELLS FITTED WITH SELF EQUALIZING SSCSV. 15. CONTINUOUS CORROSION INHIBITOR INJECTION POINT. FOR PIPELINE CORROSION PROTECTION. 16. DOWNHOLE GAUGE PROBE CONTAINS FOUR PARAMETERS: TUBING PRESSURE AND TEMPERATURE (01PT-101 AND 01TT-101) AND ANNULUS PRESSURE AND TEMPERATURE (01PT-102 AND 01TT-102).					DRAWING NO. REV. REFERENCE DRAWING REV. DESCRIPTION DATE					DRAWN CHK'D APP'D CHK'D APP'D AEM PETRONAS					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 DATE 06.04.20					PROJECT TITLE : PROVISION OF FRONT END ENGINEERING DESIGN (FEED) SERVICES FOR DESIGN ONE BUILD MANY (D1BM) PROJECT DRAWING TITLE : PIPING AND INSTRUMENTATION DIAGRAM PRODUCTION WELLHEAD FACILITIES (W-0110) CONTRACTOR LOGO : AKER SOLUTIONS AKER ENGINEERING MALAYSIA SDN. BHD. (70660-D) CAD FILE: D1BM-WHP-FEED-AEM-01-PRO-PID-0101 DRAWING NO: 0101 DISCIPLINE: PRO SHEET NO. 1 of 1 REVISION NO. 0				
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0 APPROVED FOR DETAILED DESIGN					03.07.20	TKS	TPH	FM	ZMY	PM	AEM PETRONAS				
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PROJECT TITLE : PROVISION OF FRONT END ENGINEERING DESIGN (FEED) SERVICES FOR DESIGN ONE BUILD MANY (D1BM) PROJECT					DRAWING TITLE : PIPING AND INSTRUMENTATION DIAGRAM PRODUCTION WELLHEAD FACILITIES (W-0110)					CONTRACTOR LOGO : AKER SOLUTIONS AKER ENGINEERING MALAYSIA SDN. BHD. (70660-D)					CAD FILE: D1BM-WHP-FEED-AEM-01-PRO-PID-0101				
DRAWING NO: 0101					DISCIPLINE: PRO					SHEET NO. 1 of 1					REVISION NO. 0				