

PIPE LINES				UNIT	ERL DESIGNATION		INSPECTION DESIGNATION		ROUTE IDENTITY	
				11	P-11114-1		14		E-1108 - E-1109 B	
				DRAWING REFERENCE		GENERAL INFORMATION		SERVICE CONDITION		
				6300 - P 11114		Pipe class		Operating Pressure 18.1 BAR		
				12		Nominal dia		Operating temperature 146°C		
						Sch Number		Design pressure 24.1 BAR		
						Original thickness		Design temperature 161°C		
						Corrosion Allowance		Fluid CRUDE FLASH		
						Design stress at °C		Gravity 0.82 - 0.87		
						Y-value		IP 33°C, Fp X°C, EP...X°C		
						Retiring thickness				
						Weight Empty		362.10 Wt		
						Weight water filled		687.26 Wt		
						Route elevation Max <sup>m</sup>		102.880 M/V		
						Maximum linear exp.		0.19"		
						Route elevation Min <sup>m</sup>		100.700 M/V		

  

VALVES AND FITTINGS					PIPE MANUFACTURING PROCEDURE	
ITEM	TYPE	SERIES	ASTM/API SPEC	REMARKS		
Gate valve	+		X		WELDING SPECIFICATION	
Globe valve	+		X		① BUTT WELD	
Check valve	+		X		② WELDING ROD :- E 6018 / E 7018	
Plug valve	+		X		③ GAP = 1/8"	
Needle valve	-				④ REVEL = 60°	
Flange	SO	300#	A105 Gr-1		HEAT TREATMENT REQUIREMENTS	
Forged fittings	X				NOT REQUIRED	
Half coupling	SD	3000#	A105 Gr-1			
Unions	X					
Bolts	X					
Nuts	-	300#	A193 Gr B7	22 X 140 mm		
GASKETS.	-	300#	A194 Cl, 2H			
PURGE VALVE	WN	600#	ASBES TOS A105 Gr 2	22.5 X 36 X 1.5 mm 3/4"	TEST DATA	
					Hydraulic test pressure 27.15 BAR	
					Design test pressure 40.3 BAR	
					Pneumatic test pressure 22.62 BAR	

  

METHOD OF INSPECTION	
Hammer test	Unsound
Ultrasonics	
Radiography	