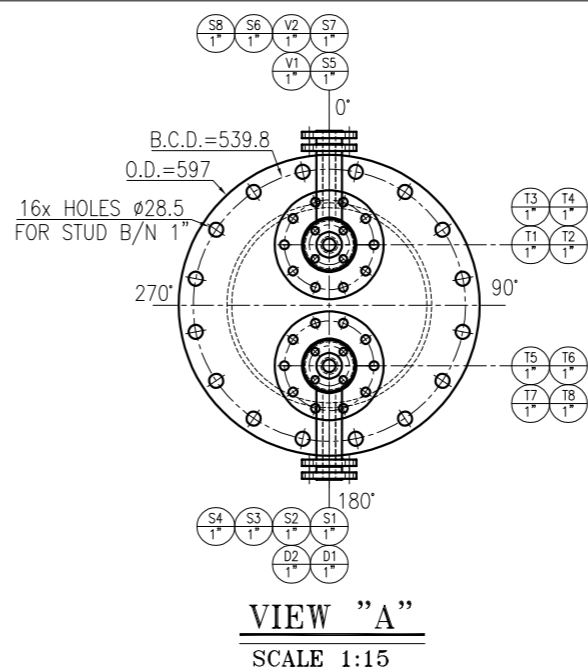

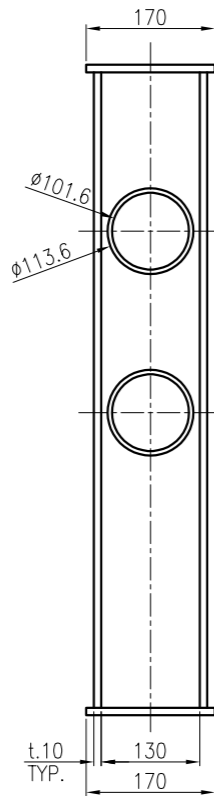


DESIGN DATA			TUBE BUNDLE DATA			
			TUBE QTY.	4U	BAFFLE TYPE	SINGLE SEGMENTAL
DESIGN CODE	ASME VIII- Div I 2019		TUBE O.D. (mm)	19.05	BAFFLE ORIENTATION	HORIZONTAL
SERVICE	RICH-LEAN GLYCOL (E-200)		TUBE THK. (mm)	1.65 (min)	BAFFLE CUT	35%
TEMA TYPE	HAIRPIN		TUBE PITCH (mm)	28.575	BAFFLE/FULL SUPPORT QTY.	14/-
ORIENTATION/QTY.	HORIZONTAL/4		OUTER TUBE DIAMETER (mm)	68.5	TIE ROD QTY.	2
SHELL IN SERIES/PARALLEL	4/1		TUBE LAYOUT	30'	SEALING RING/ROD QTY.	-
SIZE (mm)	95.5x3490.8		TUBE LENGTH (STRAIGHT) (mm)	3490.8	PASS PARTITION QTY.	-
DESIGN DUTY (W)	16100		TUBE TO TUBESHEET JOINT:	EXPANDED & FULL STRENGTH WELD (2GROOVES)		
SURFACE GROSS/EFF. (m2)	1.76/1.68		MATERIAL TABLE			
	SHELL SIDE	TUBE SIDE	SHELL SIDE (NOTE 9)		TUBE SIDE	
			DESCRIPTION	DESIGNATION	DESCRIPTION	DESIGNATION
FLUID	LEAN TEG	RICH TEG	BARREL	SA-106 Gr.B N/SA-312 TP 316L	BARREL	SA-312 TP316L
VOLUME (m3)	0.1	0.01	COVER HEAD	SA-234 WPB N	COVER HEAD	-
DENSITY (IN/OUT) (Kg/m3)	981.7 L/994.7 L	4.6 V, 993.4 L/ 4 V, 982.1 L	GIRTH FLANGE	SA-105 N/SA-182 F316L	GIRTH FLANGE	SA-182 F316L
NUMBER OF PASS	1	1	NOZZLE NECK (PIPE/PLATE)	SA-106 Gr.B N/SA-312 TP316L	NOZZLE NECK (PIPE/PLATE)	SA-312 TP316L/-
OPERATING PRESSURE (barg)	0.3	3.3	NOZZLE FLANGE/FORGING	SA-105 N/SA-182 F316L	NOZZLE FLANGE/FORGING	SA-182 F316L
DESIGN PRESSURE (barg)	5.8	7.5	WELDING FITTING	-	WELDING FITTING	SA-403 316L
TEST PRESSURE (barg)	8.2	10	GENERAL		TUBE BUNDLE	
MAWP (barg)	11	12	SUPPORT	-	TUBESHEET	SA-182 F316L
OPERATING TEMPERATURE (IN/OUT) (°C)	191.5/119.4	73.6/140.05	NAME PLATE	S.S.304	TUBE	SA-213 TP316L
DESIGN TEMPERATURE (°C)	220	165	PARTITION PLATE	-	BAFFLE & SUPPORT	SS 316L
MDMT (°C)	+5	+5	EARTHING LUG	S.S.304	TIE ROD	SS 316L
MEAN METAL TEMPERATURE (°C)	147.7	144.3	TEST RING	-	IMPINGEMENT PLATE	-
CORROSION ALLOWANCE (mm)	3	0	BOLTS/NUTS MATERIAL		GASKET MATERIAL	
RADIOGRAPHY (SHELL/HEAD)	FULL/FULL	FULL/FULL	SETTING BOLTS	SA-325M (NOTE 14)	SHELL & CHANNEL NOZZLE FLANGE	(NOTE 7)
JOINT EFFICIENCY (SHELL/HEAD)	1/1	1/1	EXTERNAL(BOLTS/NUTS)	SA-193-87/ SA-194-Gr-2H	SHELL & CHANNEL/TUBESHEET	(NOTE 7)
PWHT	YES	NO	INTERNAL(BOLTS/NUTS)	-		
STRESS RELIEVING	NO	NO	WEIGHTS FOR EACH EQUIPMENT (kg)			
INSULATION (DENSITY/TYPE/THK.) (mm)	125/HOT/60	125/HOT/60	FABRICATED	430	SHOP HYDROTEST	530
FIREPROOFING (DENSITY/THK.) (mm)	-/-	-/-	OPERATING	1060	FIELD HYDROTEST	530
EXTERNAL PAINTING	NOTE 18	NOTE 18	SHUTDOWN (EMPTY)	967	INTERNALS	-
EARTHQUAKE CONDITIONS	ASCE 7-10 : Fa=1.111, Fv=1.575, Ss=1.377g,S1=0.367g,Site:C <sub>u</sub> =1.25, R=3,z/h=0,Sds=1.02g,Sd1=0.385g		TUBE BUNDLE	26	LADDERS & PLATFORMS	-
WIND CONDITIONS	ASCE 7-10 : Wind Speed=120km/h, I.F.=1, Surface Roughness=C		LOADING DATA ON EACH SADDLE (NOTE 12 & 13)			
			WIND		SEISMIC	
			SHEAR (N)	MOMENT (N.m)	SHEAR (N)	MOMENT (N.m)
			330	211	3300	2112

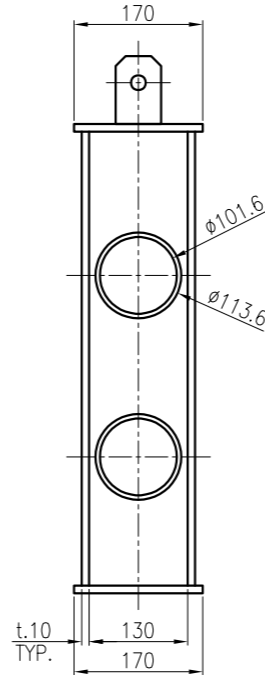


<input type="checkbox"/> NO COMMENT: Documents/Drawings were checked by PIDECE and further steps can be followed. Upon Putting No Comment on vendor documents by PIDECE, VDMS will lock it and there is not possible to upload any new revision, in this case vendors have to send their request through email to VDC for activating it.		
<input type="checkbox"/> COMMENT AS MARKED, Manufacturing May Proceed: Means documents/drawings were checked by PIDECE and comments must be considered by vendor. Fabrication can proceed accordingly.		
<input type="checkbox"/> MAJOR COMMENT AS MARKED, Manufacturing shall be on hold for the next revision: Means documents/drawings were checked by PIDECE and marked comments must be considered by vendor. Vendor shall revise documents/drawings as per comments and the new revision documents/drawings must be reissued prior to fabrication.		
<input type="checkbox"/> REJECTED, new document with the same revision No. shall be issued : Means documents/drawings were checked and it is not comply with purchase requisition requirements.		
<input type="checkbox"/> FOR INFORMATION.		
Name: Signature: Date:	Req. No.:	Seq. No.:
PIDECE review & comments do not absolve the vendor of the responsibility for the correct design, manufacturing and operation of the equipment.		

DE			EXT					
Eng. Phase			Purpose of Distribution (POD)			Purpose of Issue (POI)		
AKHARIAN	SFARMAZPOUR	***	REV.	DESCRIPTION	BY	DATE	BY	DATE
CHK.	APP.	AUT.			CHECKED		REV. APPR.	
SURFACE FACILITIES STATION			 <p>THE ORIGINAL AND ALL COPIES OF THIS DRAWING TOGETHER WITH THE COPYRIGHT THEREIN ARE THE SOLE PROPERTY OF N.I.S.O.C./ FIELDS</p>					
TRACTOR (GC):								
<b>PETROIRAN DEVELOPMENT COMPANY</b>			BINAK OILFIELD DEVELOPMENT SURFACE FACILITIES GAS COMPRESSOR STATION					
	DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.			
N GLYCOL H.E. (E-200)			NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED					
	APPROVED FOR CONSTRUCTION	BY:	DATE:					
	SHEET NO.	REV.	BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET
	1 OF 3	V00						REVISION



DETAIL OF SADDLE  
FOR E-200A&C  
SCALE 1:10



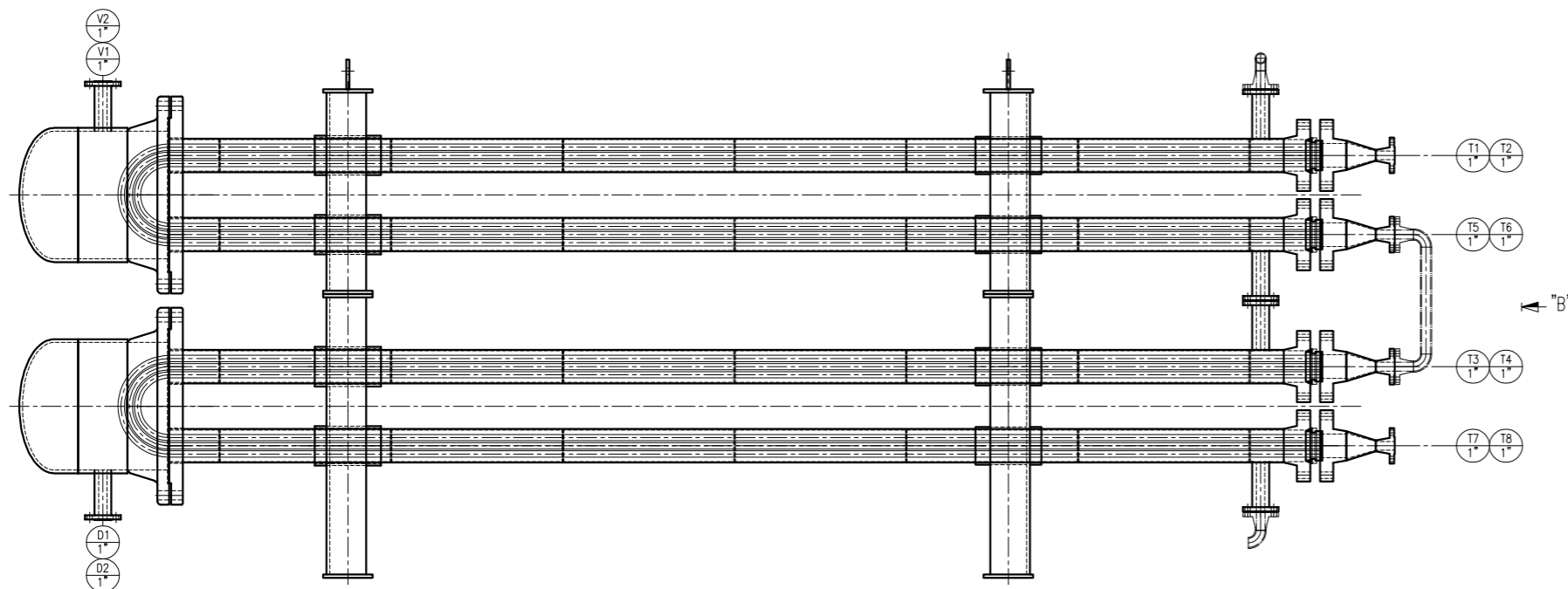
DETAIL OF SADDLE  
FOR E-200B&D  
SCALE 1:10



T.L.	TANGENT LINE	N	NORMALIZED
B.L.	BASE LINE	P.W.H.T.	POST WELD HEAT TREATMENT
C.O.G.	CENTER OF GRAVITY	R.F.	RAISED FACE
EL.	ELEVATION	S.R.	STRESS RELIEVE
F.B.	FLAT BAR	S.F.	STRAIGHT FLANGE
L.L.H.	LIQUID LEVEL HIGH	T.L.	TANGENT LINE
L.L.H.H.	LIQUID LEVEL HIGH HIGH	T.O.G.	TOP OF GROUTING
L.L.L.	LIQUID LEVEL LOW	W.N.	WELDING NECK
L.L.L.L.	LIQUID LEVEL LOW LOW	L.W.L.	LONGITUDINAL WELDING LINE
N.L.L.	NORMAL LIQUID LEVEL	C.W.L.	CIRCUMFERENTIAL WELDING LINE
M.A.W.P.	MAX. ALLOWABLE WORKING PRESSURE	L.W.N.	LONG WELDING NECK
M.D.M.T.	MIN. DESIGN METAL TEMP.	R.T.	RADIOGRAPHY TEST
D.P.	DESIGN PRESSURE	INT.	INTERNAL
J.E.	JOINT EFFICIENCY	EXT.	EXTERNAL
L	LIQUID	H.P.P.	HIGHEST POINT OF PAVING
V.	VAPOR	THK.	THICKNESS
DWG	DRAWING	N.A.	NOT APPLICABLE
R.L.	REFERENCE LINE	-	-

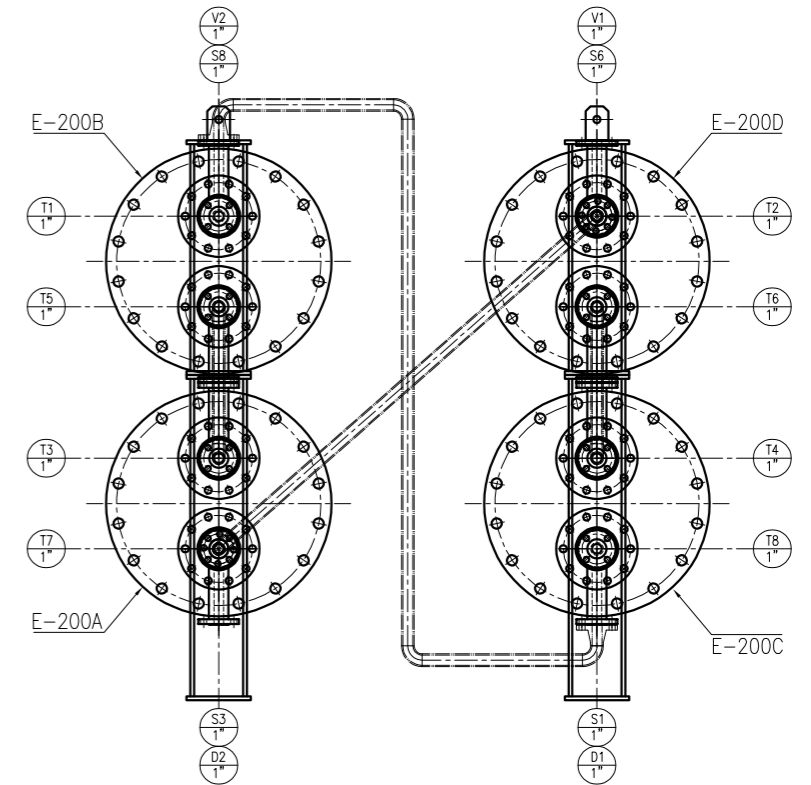
N O Z Z L E T A B L E											
MARK	FLUID / DESCRIPTION	QTY.	SIZE	RATING	TYPE	FACING	SCH./ THK.	REINFORCE PAD		PROJECTION (NOTE 2)	REMARK
								DIA.	THK.		
T1~T4	RICH TEG INLET	4	1"	150#	W.N.	R.F.	STD/-	-	-	SEE DWG.	-
T5~T8	RICH TEG OUTLET	4	1"	150#	W.N.	R.F.	STD/-	-	-	SEE DWG.	-
S1~S4	LEAN TEG INLET	4	1"	150#	L.W.N.	R.F.	-/12.8	-	-	200	-
S5~S8	LEAN TEG OUTLET	4	1"	150#	L.W.N.	R.F.	-/12.8	-	-	200	-
V1,V2	VENT	2	1"	150#	L.W.N.	R.F.	-/12.8	-	-	345	-
D1,D2	DRAIN	2	1"	150#	L.W.N.	R.F.	-/12.8	-	-	345	-

[illegible]



ASSEMBLY VIEW

SCALE 1:20



ASSEMBLY VIEW  
SCALE 1:20

VIEW "B"

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SCALE 1:20

[illegible]