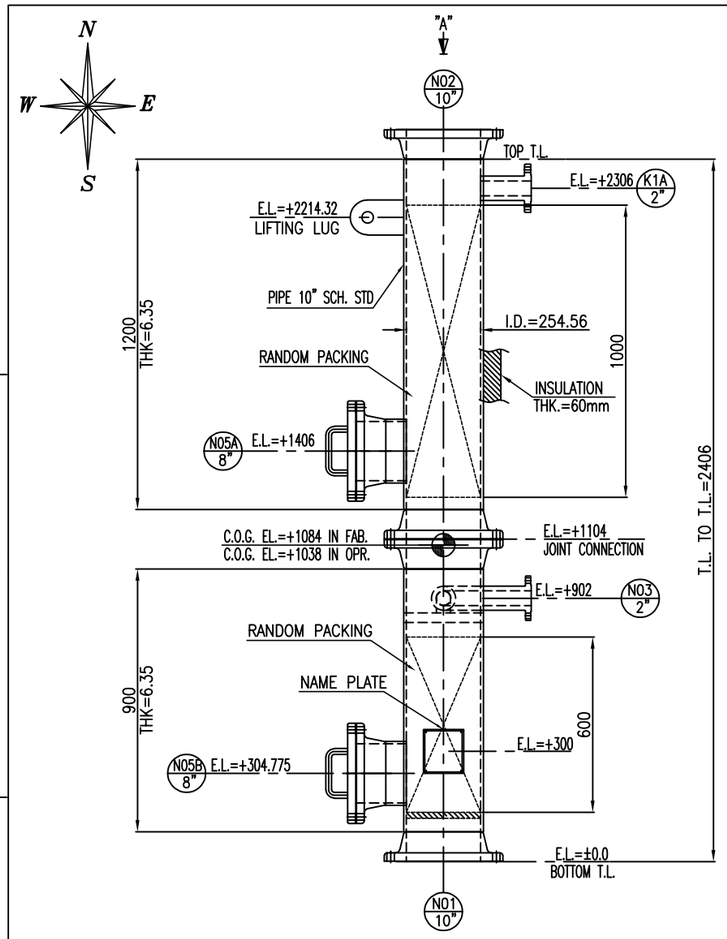
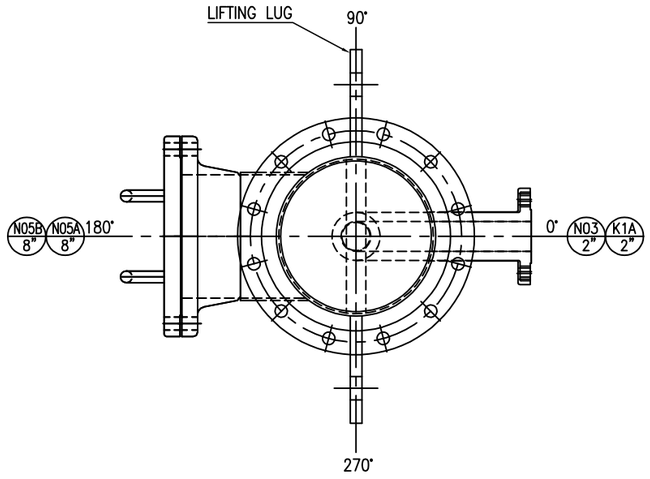


ELEVATION VIEW

SCALE 1:20



VIEW "A"

SCALE 1:10

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MM UNLESS OTHERWISE NOTED.
2. ALL ELEVATIONS ARE SPECIFIED FROM EQUIPMENT T.L. ±0.00
3. ALL THICKNESS SHOWN IN THE DRAWING ARE INTENDED AS MINIMUM AF
4. UNLESS OTHERWISE NOTED OUTSIDE PROJECTIONS OF NOZZLES ARE MEASURED FROM VESSEL VERTICAL C.L. TO THE FLANGES CONTACT FACE. FACE OF RADIAL FLANGES ON SHELL SHALL BE PERPENDICULAR TO C.L.
5. FLANGES FACING TO BE IN ACCORDANCE WITH ASME B.16.5 FOR 24" OR LESS AND ASME B.16.47 SERIES A FOR LARGER.
6. FLANGES FACE FINISHING ARE SERRATED WITH 125 TO 250 MICRO INCH ROUGHNESS AS PER ASME B16.5 FOR 24" AND LESS. ALSO ASME B16.47 SERIES "A" FOR MORE THAN 24".
7. GASKETS SHALL BE SPIRAL WOUND WITH FLEXIBLE GRAPHITE FILLER 4.5MM, HOOP SS316, INNER & OUTER RING SS316.
8. BOLT HOLES FOR FLANGES SHALL BE STRADDLED TO NORTH-SOUTH AND/OR EQUIPMENT C.L.
9. ALL SHARP CORNERS WILL BE ROUNDED OFF.
10. ALL REMOVABLE INTERNALS PASS THROUGH THE HANDHOLE 10".
11. 1/1.4 FACTOR FOR EARTHQUAKE LOADS AND 0.6 FACTOR FOR WIND LOADS HAS BEEN APPLIED FOR LOAD COMBINATION AS PER ASCE-7 2010.
12. 12. FOR MORE SAFETY 10% CONTINGENCY FACTOR IS CONSIDERED ON BASE LOADS CALCULATIONS . SO , OVER LOADS MAY CHANGE THE LOADS & MOMENTS.
13. ALL REINFORCED PAD HAVE 1/4" NPT TELLTAIL HOLE WHICH WILL BE PLUGGED WITH GREASE AFTER THE HYDRO TEST.
14. ALL REINFORCED PAD WILL BE AIR LEAK TESTED AT 1 BARG BY USING SOAP SOLUTION.
15. PAINTING WILL BE PERFORMED BASED ON "SURFACE PREPARATION AND INTERNAL/EXTERNAL PAINTING PROCEDURE DOC. NO. BK-GCS-MF-120-QC-PR-0004"
16. ALL BUTT WELDED JOINTS ARE FULLY RADIOGRAPHED.
17. ALL WELDS ARE CONTINUOUS UNLESS OTHERWISE NOTED.
18. WHERE IN ISOLATED CASES REINFORCING PADS COVER VESSEL WELD SEAMS THESE WILL BE GROUND FLUSH AND FULLY RADIOGRAPHED FOR A DISTANCE OF 100MM MEASURED EACH SIDE OF THE COVERED WELD AREA PRIOR TO THE ATTACHMENT OF THE PAD.
19. ALL INTERNAL WELDS WILL BE SMOOTH GRINDED.
20. VESSEL HAS BEEN DESIGNED FOR FIELD HYDROTEST IN CORRODED CONDITION.
21. ALL WET PART MATERIALS MEET "SPECIFICATION FOR MATERIAL REQUIREMENTS IN SOUR SERVICE DOC NO. "BK-GNRAL-PEDCO-000-PI-SP-0008"
22. ALL PRESSURE PARTS ARE NORMALIZED AND COMPLY WITH NACE MR0175/ISO 15156.
23. THE EQUIPMENT WILL BE INSTALL ON REBOILER (R-100).
24. WILL BE FINALIZED BY INTERNAL MANUFACTURER LATER.

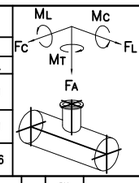
ABBREVIATIONS & LEGEND

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

REFERENCE DRAWINGS	DRAWING NO.
MECHANICAL CALCULATION BOOK FOR STILL COLUMN (C-200)	BK-GCS-MF-120-ME-CN-0002
DETAILS DRAWING FOR STILL COLUMN (C-200)	BK-GCS-MF-120-ME-DW-0006
NAME PLATE DETAIL DRAWING FOR STILL COLUMN (C-200)	BK-GCS-MF-120-ME-DW-0007
WELDING & NDT MAP FOR STILL COLUMN (C-200)	BK-GCS-MF-120-ME-MP-0002

NOZZLE LOAD

NOZZLE	SIZE	RATING	FORCE (KN)			MOMENT (KN-m)		
			FL	FA	FC	MC	MT	ML
N01	10"	150#	14	14	10.5	7	10.5	9.1
N02	10"	150#	14	14	10.5	7	10.5	9.1
N03	2"	150#	2.8	2.8	2.1	0.28	0.42	0.36



MARK	SERVICE	QTY.	SIZE	RATING	TYPE	FACING	SCH./ THK.	DIA. REINFORCE PAD	THK. REINFORCE PAD	PROJECTION	REMARK
K1A	DIFFERENTIAL PRESSURE GAUGE	1	2"	300#	L.W.N	R.F.	-/16.6	-	-	300	
N05A/B	HAND HOLE/PACKING DISCHARGE	2	8"	150#	W.N	R.F.	STD/-	-	-	300	WITH BLIND, BOLTS & NUTS
N03	RICH GLYCOL INLET	1	2"	150#	L.W.N	R.F.	-/15.85	-	-	300	
N02	REFLUX CONDENSER CONNECTION	1	10"	150#	W.N	R.F.	STD/-	-	-	SEE DWG	
N01	REBOILER CONNECTION	1	10"	150#	W.N	R.F.	STD/-	-	-	SEE DWG	

NOZZLE TABLE

- ☐ NO COMMENT: Documents/Drawings were checked by PIDEC and further steps can be followed. Upon Putting No Comment on vendor documents by PIDEC, 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.
- ☐ COMMENT AS MARKED, Manufacturing May Proceed: Means documents/drawings were checked by PIDEC and comments must be considered by vendor. Fabrication can proceed accordingly.
- ☐ MAJOR COMMENT AS MARKED,Manufacturing shall be on hold for the next revision: Means documents/ drawings were checked by PIDEC 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.
- ☐ 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.
- ☐ FOR INFORMATION.

Name:
Signature:
Date:

Req. No.:

Seq. No.:

PIDEC review & comments does 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)

DESIGN DATA

DESIGN CODE : ASME VIII- DIV I 2019

STILL COLUMN (C-200)			
PROCESS FLUID	HC GAS TEG/VAP.	WIND/SEISMIC CODE	ASCE7-10
LIQUID TYPE	GLYCOL	EARTHQUAKE CONDITIONS	Fa=1.111, Fv=1.575, Ss=1.377g,S1=0.367g,Site:C,I=1.25, R=2.5,z/h=1,Sds=1.02g,Sd1=0.385g
LIQUID DENSITY(MIN/MAX)	960/998		
DESIGN PRESSURE(INT./EXT.)	4/F.V.@100°C barg	WIND IMPORTANCE FACTOR	1
OPERATING PRESSURE(MIN/MAX)	0.2/0.5 barg	WIND EXPOSURE	C
DESIGN TEMPERATURE	+5/234 °C	WIND SPEED @ 10m A.G.	120 Km/hr
OPERATING TEMPERATURE (TOP/BOTTOM)	89/140 °C	VOLUME	0.14 m^3
		INSULATION/TYPE/DENSITY	60mm/HOT/125 Kg/m^3
TEST PRESSURE(SHOP/SITE)	8/7.7 barg	INSULATION SUPPORT	YES
HYDROTEST TYPE	UG-99(b) (3G) HORIZONTAL	LIFTING DEVICE	YES
TEST POSITION(SITE)	VERTICAL	SPECIAL SERVICE	(NOTE 21)
RADIOGRAPHY (SHELL/HEAD)	FULL/FULL	LADDER & PLATFORM	NO
JOINT EFFICIENCY (SHELL/HEAD)	1/1	VALVE DAVIT/TOP DAVIT	-/-
P.W.H.T.	NO	INTERNAL LINING/DENSITY	NO
S.R. OF HEADS AFTER FORMING	NO	FIREPROOFING(BOTH SIDE)/DENSITY	NO
M.D.M.T. @ D.P.	+5 °C	FIREPROOFING SUPPORT	NO
M.A.W.P.	4.5 barg	EXTERNAL PAINTING	YES/(NOTE 15)
CORROSION ALLOWANCE	0 mm	EARTHING/PIPE SUPPORT CLIP	-/-
LETHAL	YES	IMPACT TEST	NO

MATERIAL TABLE

DESCRIPTION	DESIGNATION	DESCRIPTION	DESIGNATION
SHELL	SA-312 TP316L	REINFORCING PAD	-
HEAD	-	LIFTING LUG	SS316L
NOZZLE NECK (PIPE/PLATE)	SA-312 TP316L/-	INSUL./FIREPROOFING SUPPORT	SA-240 316L
NOZZLE FLANGE/FORGING	SA-182 F316L	STIFFENING RING	-
WELDING FITTING	-	EXTERNAL WELDED ATTACHMENTS	SA-240 316L
SKIRT(TOP/BOTTOM)	-	INTERNAL WELDED/REMOVABLE	SS 316L
SADDLE	-	NAME PLATE	SS 304
BOLTS/NUTS MATERIAL		GASKET MATERIAL	
ANCHOR BOLTS	-	GASKET	(NOTE 7)
EXTERNAL(BOLTS/NUTS)	SA-194 Gr 8M		
INTERNAL(BOLTS/NUTS)	-		

WEIGHTS (kg)

FABRICATED	428	SHOP HYDROTEST	558
OPERATING	1122	FIELD HYDROTEST	579
SHUTDOWN (EMPTY)	1043	INTERNALS	(NOTE 24)
ERRECTED	428	LADDERS & PLATFORMS	-

LOADING DATA (NOTE 11 & 12)

WIND		SEISMIC	
SHEAR (N)	MOMENT (N.m)	SHEAR (N)	MOMENT (N.m)
299	732	13200	26447

REV.	DATE	DESCRIPTION	BY	DATE	BY	DATE
			CHECKED		REV. APPR.	
V00	DEC.2024	ISSUED FOR APPROVAL	MFS	M.FAKHARIAN	S.FARAMARZPOUR	**.**
REV.	DATE	P.O.I.S	PREP.	CHK.	APP.	AUT.

PROJECT NAME: BINAK OILFIELD DEVELOPMENT/SURFACE FACILITIES GAS COMPRESSOR STATION

PROJECT NO.: 971020

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EPC CONTRACTOR: HIRGAN ENERGY – DESIGN & INSPECTION COMPANIES

EPD/EPC CONTRACTOR (GC): PETROIRAN DEVELOPMENT COMPANY PEDCO

BINAK OILFIELD DEVELOPMENT
SURFACE FACILITIES
GAS COMPRESSOR STATION

DATE	SCALE	DRAWING BY	CHECKED BY	PROJECT ENG.

NO CONSTRUCTION PERMITTED UNLESS DRAWING APPROVED

APPROVED FOR CONSTRUCTION BY: DATE:

DRAWING TITLE: GENERAL ARRANGEMENT FOR STILL COLUMN (C-200)

SCALE	SIZE	DRAWING NO.	SHEET NO.	REV.
NTS	A3	BK-GCS-MF-120-ME-DW-0005	1 OF 1	V00

BUDGET REF.	LOCATION	SIZE	CLASS	SERIAL NO.	SHEET	REVISION