


CLIENT : GASSNOVA
 PROJECT TITLE : CO2 KARSTO PROJECT
 JOB NUMBER : 25474
 M.R. NUMBER :
 EQUIPMENT NUMBER : MV-103
 EQUIPMENT TITLE : Stripper
 SERIAL NUMBER :
 CRITICALITY RATING :

COMMENTS:

1. 1 vessel required. One stripper receives rich amine from 2 absorbers.
2. Refer to 10112936-PB-P-DAS-0005 for column internal details.
3. Internals vendor to provide all internals including distributors and demisters.

REV	DATE	DESCRIPTION	Orig.	Chkd	Lead	Review	Proj
1	12-Nov-08	Issued for Information Including Comments <i>Poo 39</i>	MJC	HS	DM	ADB	BR
0	7-Oct-08	Issued For Deliverable Milestone Schedule M2	HS	MJC	DM	ADB	BR

	PROCESS DATA SHEET VESSEL	JOB No	25474
		DATA SHEET No.	REV
		BECHTEL : 25474-000-M5D-CN-00051 OWNER : 10112936-PB-P-DAS-0004	1
SHEET		1	OF 2

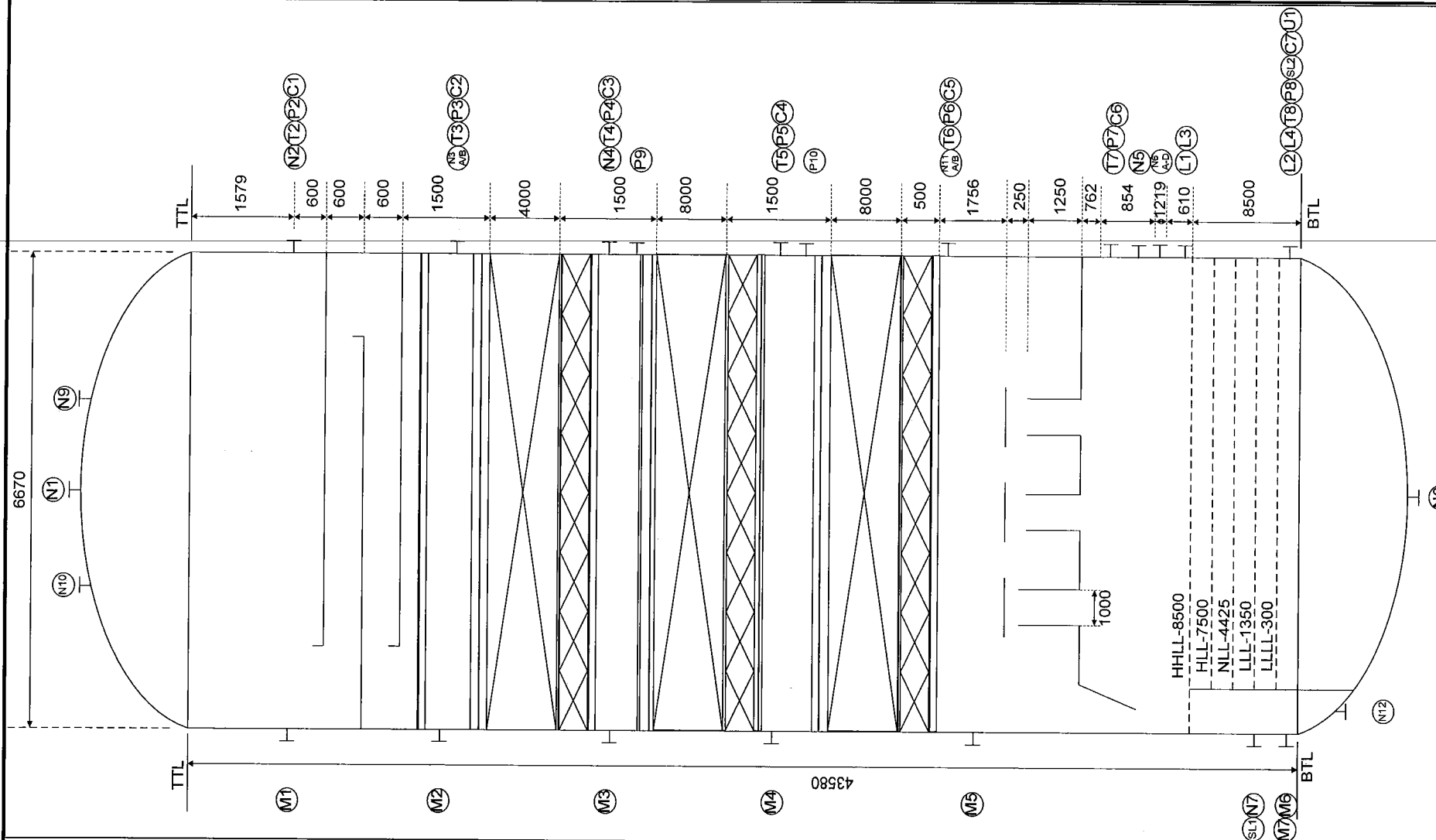
REVISION

CLIENT & LOCATION : GASSNOVA, NORWAY

EQUIPMENT No : MV-103

Rev PROJECT : KARSTO CO2

UNIT :



PROCESS NOZZLE DATA							
REF	SIZE mm (NS)	RATING	DIMENSION		PLAN ORIENT	SERVICE	REMARKS
			Y	Z			
N1	1015	150 #				Vapour Outlet	
N2	50	150 #				Reflux	
N3 A/B	610	150 #				Rich Amine	
N4	250	150 #				Flash Gas	
N5	250	150 #				Vapour from reclaimer	
N6 A-D	1220	150 #				Reboiler return	
N7	760	150 #				Reboiler Inlet Stream	
N8	915	150 #				Lean Amine to P-105A/B	
N9	150	150 #				Vent	
N10	100	150 #				Vent	
N11A/B	250	150 #				Vent Steam	
N12	100	150 #				Drain	

INSTRUMENT / MECHANICAL NOZZLE DATA							
REF	SIZE mm (NS)	RATING	DIMENSION		PLAN ORIENT	SERVICE	REMARKS
			Y	Z			
M1-7	762	150 #				MANWAY	
T2-T8	50	150 #				TEMPERATURE	
P2-P10	50	150 #				PRESSURE	
Deleted							
C1-C7	50	150 #				CORROSION MONITORING	
Deleted							
SL1-SL2	50	150 #				LIQUID SAMPLE	
L1-L4	50	150 #				LEVEL	
U1	50	150 #				UTILITY CONNECTION	

PROCESS OPERATING DATA									
REF	FLUID	FLOW kg/hr	DENSITY kg/m3	TEMPERATURE °C			PRESSURE kPa g		
				NORM	MAX	MIN	NORM	MAX	MIN
N1	CO2 vapour	214013	1.8	105			95		
N2	Amine	7321	988.5	49			423		
N3 A/B	Amine	2283100	98.1	112			130		
N4	Flash Gas	9550	2.2	114			139		
N5	Reclaimer Vapour	13850	1.663	170			135		
N6 A-D	Amine + Flash Gas	1441370	9.82	130			130		
N7	Amine	1441370	1067.8	128			130		
N8	Amine	2270918	1062.5	128			130		
N11A/B	Steam	5515	1.23	146			135		

M/R NUMBER	
CODE	
SPECIFICATION	

DESIGN DATA				MATERIALS		REFERENCE DRAWINGS	
MAX EXPECT. DESIGN PRESS. & CORRES. TEMP	PRESS kPag	TEMP °C		SHELL & HEADS	CS OR SS304L	SUPPORT SKIRT	
MAX EXPECT. DESIGN TEMP. & CORRES. PRESS	345	160		INTERNAL CLADDING	SS304L or NIL	MANWAY DAVIT / HINGE	
EXTERNAL DESIGN COND. (MAX/MIN TEMP)				REINFORCEMENT RINGS		MISCELLANEOUS SUPPORT CLIPS	
SYSTEM PSV SET AT	FV	60		PLATE NECKS		INSULATION SUPPORTS	
	345			PIPE		ANCHOR BOLTS, LUGGS & BASE PLATE	
				FORGINGS		PRESSURE VESSEL TOLERANCES	
				SUPPORTS		DETAILS OF CLAD NOZZLES	
CORROSION ALLOWANCE mm				DEMISTER PAD		NOZZLES AND MANWAYS	
INTERNAL CLADDING mm				INTERNALS		MISCELLANEOUS INTERNALS	
RADIOGRAPHY				INTERNAL BOLTS		NAME PLATE	
DESIGN WIND SPEED m/s				INTERNAL NUTS		MISCELLANEOUS CLIPS AS BELOW & AS PER DRAWINGS	
EARTHQUAKE DESIGN				EXTERNAL FLANGE BOLTS			
POST WELD HEAT TREATMENT REQ'D FOR				EXTERNAL FLANGE NUTS			
				GASKETS		OTHER DETAILS :	
				EXTERNAL PREPARATION			
HYDRO TEST PRESSURE TO COMPLY WITH				SHOP PAINT			
MOMENT ON BASE				INTERNAL PREPARATION			
GOVERNED BY				INTERNAL HS			
VESSEL WT	SHIPPING	OPERATING	TEST	INSULATION			
				FIREPROOFING			

NOTES	
1	All dimension in MM except where stated otherwise.
2	Residence time of 5 mins for lean amine in column bottom (LLL - HLL).
3	Deleted
4	Deleted
5	Deleted
6	Reboiler Inlet sump compartment not to exceed 16% of column cross-sectional area and to avoid nozzles N6 A-D. The chimney drawoff tray collects all liquid from the packing above and directs it to the bottom of the reboiler sump where it is preferentially directed to the reboiler(s). Liquid from this sump flows through the reboilers by gravity and the two-phase reboiler outlet stream returns to the stripper. Reboiler vapor separates and flows up through the chimney tray into the packing. Excess liquid in the reboiler sump overflows the weir at the top of the reboiler sump and into the pumpout sump where it is pumped out as lean amine.



VESSEL DATA SHEET

JOB No	25474
DRAWING No	
BECHTEL :25474-000-M5D-CN-00051	REV 1
OWNER : 10112936-PB-P-DAS-0004	
SHEET No.	2 OF 2