

PRESSURE EQUIPMENT DATA REPORT

EQUIPMENT GENERAL INFORMATION

District:	SOUTHERN/ALBERTA		
Facility:	DRUMHELLER		
Location /LSD:	04-01-028-18W4	Operating Province:	
Equipment Name:	REBOILER		
Equipment Status:	Operating	Orientation:	Horizontal
Skid No.:		Unit:	

EQUIPMENT STATIC DATA

AB Registration No.:		Serial No.:	94C-5213-10
Registration No./Other:		Equipment No.:	4787
CRN NO.:		Unique ID No.:	
National Board No.:		Oncor ID No.:	148644
Manufacturer:	Alco Gas and Oil Equipment	Year Built:	1994
MAWP:	14.90 (psi) 102.73 (Kpa)	Temperature:	100.00 (F) 37.78 (C)
Diameter.:	42.000 (In) 1066.80 (mm)	Length:	120.00 (In) 3048.00 (mm)
Radiography:	None	Heat Treatment:	No
Corrosion allowance:	(In) 0.000 (mm)	MDMT:	
Lining Or Coated:	No	Painted:	Yes
Insulated:	Yes	Internally Clad:	No
Hand Hole:	No	Support Type:	Saddle
Manway:	No	Manway Size(In):	
Capacity/Volume(m3):		Nozzle Rating:	

MATERIALS/COMPONENTS

Name	Joint Efficiency	Outside Diameter(in.)	Head Type	Material Type	Stress Value (PSI)	Nominal Thickness(In.)
SHELL	1.00	42.000		SA-36	14500	0.25
HEAD	1.00	42.000		SA-36	14500	0.25
HEAD-SURGE TANK	1.00	30.000		Unknown	15000	
SHELL-SURGE TAN	1.00	30.000		Unknown	15000	

PIPING STATIC DATA

Primary Flange Rating:		ASME B16.5 - Table 2-1.1 @ 150F:	(psi)
Pressure Use For TMin:	Vess Design Press	Piping Operating Press:	15 (psi)
Stress Value:	20000 (psi)	E Value:	1.00 Joint: SMLS

SERVICE CONDITIONS

Sweet ✓	Sour	Oil	Gas	Water
Amine	LPG	Condensate	Air	Glycol ✓

COMMENTS

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ULTRASONIC CORROSION SURVEY REPORT

DISTRICT:	SOUTHERN/ALBERTA	FACILITY:	DRUMHELLER	LOCATION/LSD:	04-01-028-18W4
EQUIP NAME:	REBOILER			PROV REG No.:	
SERIAL No.:	94C-5213-10	Equip No.:	4787	National Board No.:	

SUMMARY

TYPE	LAST INSPECTIONS	INSPECTION INTERVAL (YEARS)	CORROSION RATE (IN/YR)		REMAINING LIFE (YEARS)	NEXT INSPECTION DATE
			SHORT TERM	LONG TERM		
VESSEL	Apr 16, 2013	0.0	0.0000	0.0000	198.0	Apr 16, 2013
PIPING	Apr 16, 2013	0.0	0.0000	0.0000	198.0	


VESSEL SURVEY READINGS

POINT NUMBER	TYPE	POINT DATA (INCH)			DATE	SURVEY READINGS			CALCULATIONS		
		NOM.	C.A.	NOM-CA		LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life
05	D-SURGE T.	0.0000	0.0000	0.0000	Apr 16/13	0.263	0.270	0.000	0.0000	0.0000	198.0
10	LL-SURGE	0.0000	0.0000	0.0000	Apr 16/13	0.256	0.270	0.015	0.0000	0.0000	198.0
15	LL-SURGE	0.0000	0.0000	0.0000	Apr 16/13	0.253	0.260	0.015	0.0000	0.0000	198.0

PIPING SURVEY READINGS

POINT NUMBER	TYPE	SIZE	SCH	NOM.	POINT DATA (INCH)		DATE	SURVEY READINGS			CALCULATIONS		
					Mill Tol./CA	NOM-CA		LOW	AVG	T Req (inch)	short term corr rate	long term corr rate	remaining life
20	90L 3 STD	3.00	STD	0.2160	0.0270	0.1890	Apr 16/13	0.233	0.250	0.001	0.0000	0.0000	198.0
25	90L 3 STD	3.00	STD	0.2160	0.0270	0.1890	Apr 16/13	0.224	0.230	0.001	0.0000	0.0000	198.0

INSPECTOR-EQUIPMENT DATA

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equipment	Due Date OF Calibration	NDE Procedure #
Gordon Derewianko		1	13896	04/16/2013			WQS UT-001

VISUAL INSPECTION REPORT

District:	SOUTHERN/ALBERTA	Facility:	DRUMHELLER	Location/LSD:	04-01-028-18W4
Equipment Name	REBOILER			Prov Reg No. :	
Serial No.:	94C-5213-10	Equip No.:	4787	National Board No.:	

EXTERNAL INSPECTION

INSPECTION DATE:	Apr 16, 2013	INSPECTION INTERVAL		NEXT INSPECTION DATE:	
ITEM	CONDITION	INSPECTION COMMENTS			
INSULATION	ACCEPT	INSULATION ON REBOILER IN GOOD CONDITION, NO DAMAGE. SURGE TANK HAS NO INSULATION			
EXTERNAL CONDITION	ACCEPT	SURGE TANK IN GOOD CONDITION, NO EXT DAMAGE			
LEAKAGE	ACCEPT	NO LEAK/WEEPS			
SKIRT/SADDLE	ACCEPT	NO DAMAGE			
ANCHOR BOLTS	ACCEPT	SECURE VESSEL TO FLOOR			
CONCRETE FOUNDATION	N/A				
LADDER/PLATFORM	N/A				
NOZZLE	ACCEPT	FLANGED AND THREADED CONNECTIONS, NO DAMAGE, FULLY ENGAGED, NO SHORTBOLTING			
GAUGES	ACCEPT	GOOD WORKING ORDER/RANGE			
EXTERNAL PIPING	ACCEPT	SECURE/SUPPORTED			
VALVING	ACCEPT	NO LEAKS/WEEPS			
PSV	ACCEPT	INTERNAL COILS PROTECTED BY PSV ON VESSEL 4790			
NDE METHODS	ACCEPT	UT/VE			
OTHER	CONCERN	PLEASE NOTE REBOIL SECTION OF VESSEL IS 42" DIAMETER/SA-35, 0.250" THICK, SURGE TANK IS 30" DIAMETER, UNKNOWN MATERIAL AND THICKNESS			

RECOMMENDATIONS:


FIT FOR SERVICE, (COILS IN REBOILER PROTECTED BY VESSEL EQUIPMENT NUMBER 4790, PSV SET AT 400 PSI AND SERVICED 2009), REBOILER ATMOSPHERIC VESSEL AND DOES NOT REQUIRE PSV

I have performed the above inspections and certify that they have been done in accordance with our approved manual and that the information is accurate.

Inspector:	Roger Dlugosz	ABSA PESL #:000566	Signature:		Date:	Apr 16, 2013
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REPORT SIGN-OFF

Where required , the above reports has been reviewed and accepted as noted below:

WQS Supervisor Name:	Eric Jensen				
WQS Supervisor Title/Cert No.:	Chief Inspector	Cert No.:	ABSA PESL #:000239		
WQS Supervisor Signature/Date:		Date:	4-Jun-2014		

Where required , the above reports has been reviewed and accepted as noted below:

Client Supervisor Name:					
Client Supervisor Title/Cert No.:					
Client/Supervisor Signature/Date:		Date:			

