

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-25-046-03W4 **Date:** 2015-01-20 **SAP Equipment ID** 62045567

VESSEL STATIC DATA										
Plant: Rivercourse					OP Unit:		System:			
Prov. Insp . #:			NB#: N/S		CRN: A4059.32		Equip Tag#: 62045567			
Equipment Description: SEPARATOR					Serial #: 0196406					
Manufacturer: WATERFLOOD					Vessel Class: vessel					
Internal Access: No			Description:			Year Built: 2001				
MAWP: 1793 kpa			At Temp 93 C			MDMT: -29 C				
Code: N/S			RT: None			PWHT: No				
Diameter: 219 mm		Length: 1143 mm		(T/T): mm		OAL: mm		Orientation: Vertical		
SHELL		Mat'l: Unknown SA 106B		Thickness: 0.00 12.7 mm		Corr Allowance: 0.00 1.6 mm				
HEAD		Mat'l: Unknown SA 234WPB		Thickness: 0.00 12.7 mm		Corr Allowance: 0.00 1.6 mm				
Nozzle		Mat'l:		Thickness:		Corr Allowance:				
Internal Coating:				Internal Clad:			Capacity: m3			
Manway: No				Inspection Port: Yes			Skirt X Legs Saddle			
Nozzle Rating: 150 lb ANSI				Painted: Yes			Insulated: No			
PROCESS DATA										
Production Description:				Sweet Sour:						
Operating Pressure kpa				Operating Temp: C			Status: Shut-In			
PSV STATIC DATA										
Tag #	Serial No.	Location	Size(mm)		Set Press (kPa)	Capacity Imperial (SCFM)	Manufacturer	Model	Last Service	Service Company
			Inlet	Outlet						
3237	82344-35	Piping	25.40	25.40	414	262	Taylor Valve	T-8200-1	2010/06/08	GC VALVE
PSV DETAILS										
		Type(Thread/Flange)		ANSI Rating		Size(In/mm)				
PRD Inlet		Threaded		N/A		25.40				
PRD Outlet		Threaded		N/A		25.40				
NDE Equipment Records										
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date					
**** See Associated NDE Report										

INSPECTION SUMMARY

VESSEL IS FIT FOR SERVICE. CML 45 SHOWS SIGNIFICANT WALL LOSS AND IS BELOW NOM-MIL TOLERANCE.

RECOMMENDATIONS

RECOMMEND TO SERVICE PSV BEFORE PUTTING VESSEL BACK INTO SERVICE. I RECOMMEND THAT THE PIPING BE RETESTED WITH UT IN 1 YR TO DETERMINE CORROSION RATE AND LIFE REMAINING.

NONCONFORMANCES/INSPECTION DEFICIENCIES

- PSV SERVICE IS PAST DUE.
 - PSV SERVICE SEAL IS BROKEN.
- WQS to return in 2016 to determine corrosion rate and remaining life. Service PSV prior to re-commissioning the vessel.

PSV has been serviced October 27, 2015. See Powell Service report in DM under Equipment Number 62045571



PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-25-046-03W4**Date:** 2015-01-20**SAP Equipment ID**


62045567

INSPECTION PLANNING

Inspection Strategy		Availability		Inspection Interval	5 year
Inspection Date	2015/01/20	Date of Last Inspect		Date of Next Insp	2020

REPORT CERTIFICATION

The SignatureS below certify that inspections/tests have been completed in accordance with the identified inspection strategy and that the specified equipment is considered fit for service until the date of next inspection.

Inspected by	Justin Orichowski		Cert #	758	Date	2015/01/20
Reviewed and Approved by					Date	
Criticality Assessment Rerun			Inspection Planning Rerun			
Assessed Next Inspection Date	2020					

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-25-046-03W4

Date: 2015-01-20

SAP Equipment ID

62045567

DETAILED INSPECTION VISUAL EXTERNAL

ID	Description	Condition	Location	NCR	Comments
V1	General Other (Please Explain)	Accept		No	GOOD CONDITION.
V2	General Corrosion	Accept		No	NO CORROSION OBSERVED.
V3	General Leaks	N/A		No	NOT IN SERVICE.
V4	Vibration	N/A		No	NOT IN SERVICE.
V5	Dissimilar Flange Rating	Accept		No	
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	GOOD CONDITION.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	N/A		No	
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINT IN GOOD CONDITION.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GOOD CONDITION.
V14	Shell	Accept		No	SHELL IN GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	Accept		No	PIPING IS WELL SUPPORTED.
V22	Foundation	Accept		No	
V23	Anchor Bolts	N/A		No	WELDED TO FOUNDATION.
V24	Saddle/Skirt	Accept		No	SKIRT IN GOOD CONDITION.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	Accept		No	PIPING CONNECTIONS IN GOOD CONDITION.
V32	Small Branches	Accept		No	
V33	Nozzles	Accept		No	
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	Accept		No	ADEQUATE THREAD ENGAGEMENT OBSERVED.
V37	Bolting	Accept		No	
V38	Flanges	Accept		No	
V39	Leak Clamps	N/A		No	
V41	Insulation Other (Please explain)	N/A		No	
V42	Damage	N/A		No	
V43	Penetrations	N/A		No	
V44	Insulation Jacket	N/A		No	
V45	Banding	N/A		No	
V46	Seals/Joints	N/A		No	
V51	Relief Devices Other (Please explain)	Concern		No	SERVICED 06/2010 - PSV SERVICE IS PAST DUE, PSV SERVICE SEAL IS BROKEN.
V52	Corrosion	Accept		No	
V53	Leaks	N/A		No	NOT IN SERVICE.
V54	Restricted Inlet/Outlet	Accept		No	

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-25-046-03W4 **Date:** 2015-01-20 **SAP Equipment ID** 62045567


V55	Manual Operation Lever	N/A		No	
-----	------------------------	-----	--	----	--

DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

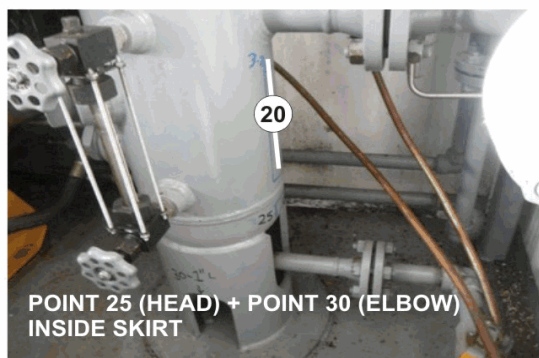
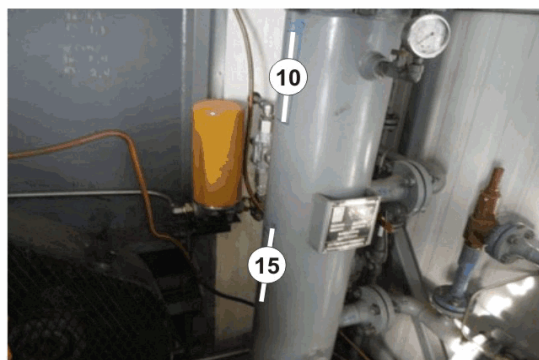
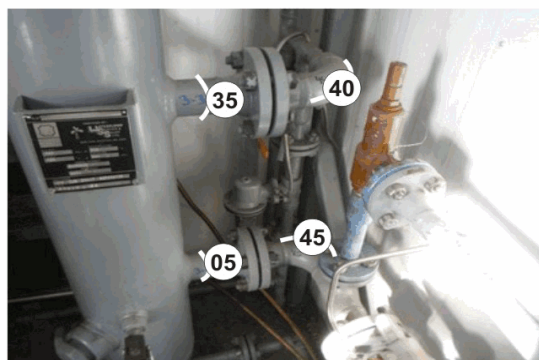
DETAILED INSPECTION UT THICKNESS

CML	Nom. Thickness (mm)	CURRENT READINGS (mm)	short term corr rate (mm/y)	long term corr rate (mm/y)	remaining life (year)	Survey Date	Comments
10 (SHELL) 12.7 mm	0.00	12.34	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
15 (SHELL) 12.7 mm	0.00	12.60	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS within C/A
20 (SHELL) 12.7 mm	0.00	12.90	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS
25 (HEAD) 12.7 mm	0.00	10.57	0.0000	0.0000	198.0	2015/01/20	NO COMMENTS
05 (BAND 2 XS)	5.54	5.26	0.0197	0.0197	246.7	2015/01/20	NO COMMENTS
30 (90L 1 STD)	3.40	3.25	0.0108	0.0108	286.9	2015/01/20	NO COMMENTS
35 (BAND 2 XS)	5.54	4.93	0.0430	0.0430	105.4	2015/01/20	NO COMMENTS
40 (90L 2 80)	5.54	5.00	0.0377	0.0377	122.5	2015/01/20	NO COMMENTS
45 (90L 2 80)	5.54	4.17	0.0968	0.0968	39.0	2015/01/20	LOW RDG IS BETWEEN NOM-CA AND Tmin

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Justin Orichowski		1	16325	01/20/2015	104_91638503_EPOCH4	06/17/2015	WQS UT-001

EXAMINATION ILLUSTRATION

DISTRICT:	AB- SOUTH	FACILITY:	RIVERCOURSE	LOCATION/LSD:	06-25-046-03W4
EQUIP NAME:	SEPARATOR			PROV REG No.:	
SERIAL No.:	0196406	Equip No.:	62045567	National Board No.:	



NOTES:

PHOTOGRAPHS

EQUIP NAME:	SEPARATOR		PROV REG No.:	
SERIAL No.:	0196406	Equip No.:	62045567	National Board No.:



NAMEPLATE



OVERALL



PSV



PSV TAG

NOTES: