

PRESSURE VESSEL & COLUMN INSPECTION REPORT

LSD: 06-25-046-03W4 **Date:** 2016-01-11 **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 234 WPB	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: Operating			
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	2015/10/27	POWELL
PSV DETAILS										
	Type(Thread/Flange)		ANSI Rating			Size(In/mm)				
PRD Inlet	Threaded		150			25.40				
PRD Outlet	Threaded		150			25.40				
NDE Equipment Records										
Procedure #	Description	Manufacturer	Model#	Serial#	Due Date					
**** See Associated NDE Report										

INSPECTION SUMMARY

MINOR SEEPAGE FOUND AT PRESSURE GAUGE. UT TESTING WAS PERFORMED AT APPROX 1 YR INTERVAL AND NO SIGNIFICANT ACTIVE CORROSION WAS FOUND.
VESSEL FIT FOR SERVICE.

RECOMMENDATIONS

TIGHTEN THREADED CONNECTION AT PRESSURE GAUGE.

THIS VESSEL CAN BE PLACED ON A NORMAL INSPECTION INTERVAL AS PER HUSKY SPECS.

NONCONFORMANCES/INSPECTION DEFICIENCIES

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INSPECTION PLANNING

Inspection Strategy		Availability		Inspection Interval	5 year
Inspection Date	2016/01/11	Date of Last Inspect		Date of Next Insp	2021/01/11

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		AB Cert #	758	SK PEI #	214	Date	2016/01/11
Reviewed and Approved by							Date	
Criticality Assessment Rerun			Inspection Planning Rerun					
Assessed Next Inspection Date	2021							

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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 VISIBLE ISSUES.
V3	General Leaks	Concern		No	MINOR SEEPAGE ON PRESSURE GAUGES.
V4	Vibration	N/A		No	
V5	Dissimilar Flange Rating	Accept		No	NO ISSUES.
V6	Ladder/Stairway	N/A		No	
V7	Heads	Accept		No	NO ISSUES.
V8	Guy Wires	N/A		No	
V9	Electrical Ground	Accept		No	NO ISSUES.
V10	Painted Inactive Corrosion	N/A		No	
V11	Coating/Painting	Accept		No	PAINTED.
V12	Expansion Joint or Bellows	N/A		No	
V13	Gauge/Site Glass	Accept		No	GOOD CONDITION.
V14	Shell	Accept		No	GOOD CONDITION.
V15	Jacket	N/A		No	
V21	Support Other (Please explain)	Accept		No	PIPING SUPPORTS IN GOOD CONDITION.
V22	Foundation	Accept		No	METAL.
V23	Anchor Bolts	N/A		No	
V24	Saddle/Skirt	Accept		No	SKIRT.
V25	Davit	N/A		No	
V26	Fireproofing	N/A		No	
V31	Connections Other (Please explain)	Accept		No	FLANGED AND THREADED CONNECTIONS IN GOOD CONDITION.
V32	Small Branches	Accept		No	GOOD CONDITION.
V33	Nozzles	Accept		No	NO ISSUES.
V34	Manways	N/A		No	
V35	Reinforcing Pads	N/A		No	
V36	Inadequate Thread Engagement	N/A		No	
V37	Bolting	Accept		No	BOLTING NO ISSUES.
V38	Flanges	Accept		No	NO ISSUES.
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)	Accept		No	GOOD CONDITION.
V52	Corrosion	N/A		No	
V53	Leaks	Accept		No	NO LEAKS.
V54	Restricted Inlet/Outlet	N/A		No	

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V55	Manual Operation Lever	N/A		No	
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DETAILED INSPECTION OTHER TECHNIQUES

ID	Location	Observation/Measurement	Acceptance Criteria	NCR	Comments

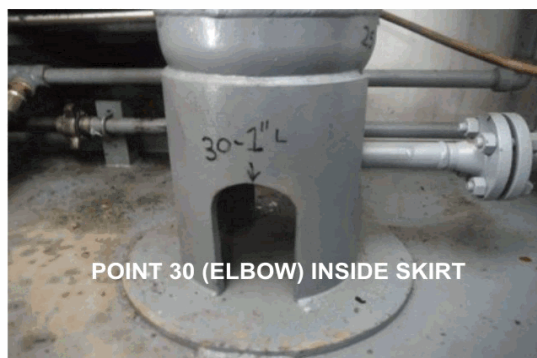
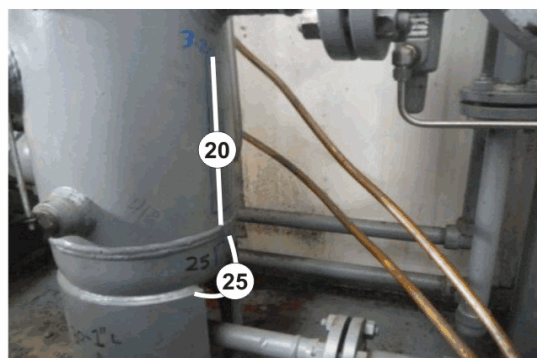
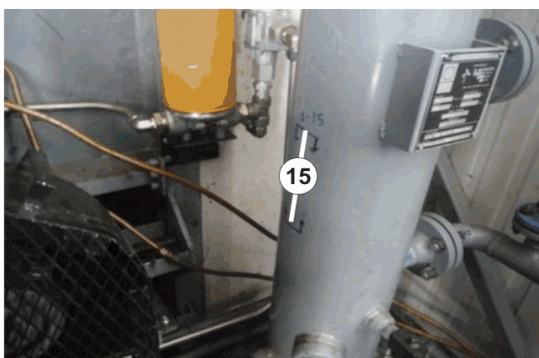
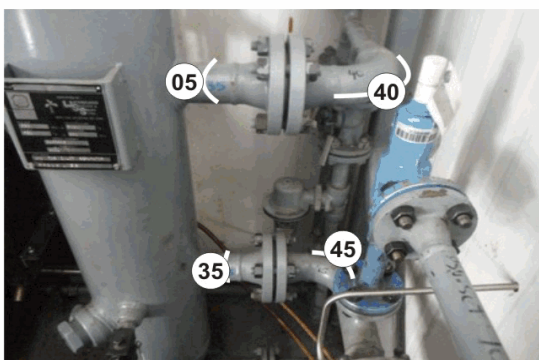
DETAILED INSPECTION UT THICKNESS

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	2016/01/11	NO COMMENTS within C/A
(SHELL) 12.7 mm	0.00	12.34	0.0000	0.0000		2015/01/20	within C/A
15 (SHELL) 12.7 mm	0.00	12.32	0.2794	0.2794	38.3	2016/01/11	NO COMMENTS within C/A
(SHELL) 12.7 mm	0.00	12.60	0.2794	0.2794		2015/01/20	within C/A
20 (SHELL) 12.7 mm	0.00	12.83	0.0762	0.0762	147.1	2016/01/11	NO COMMENTS
(SHELL) 12.7 mm	0.00	12.90	0.0762	0.0762		2015/01/20	
25 (HEAD) 12.7 mm	0.00	10.49	0.0762	0.0762	116.6	2016/01/11	NO COMMENTS within Manufacturers tolerance + C/A
(HEAD) 12.7 mm	0.00	10.57	0.0762	0.0762		2015/01/20	within Manufacturers tolerance + C/A
05 (BAND 2 XS)	5.54	5.21	0.0508	0.0508	94.8	2016/01/11	NO COMMENTS
(BAND 2 XS)	5.54	5.26	0.0508	0.0508		2015/01/20	
30 (90L 1 STD)	3.40	3.25	0.0000	0.0000	198.0	2016/01/11	NO COMMENTS
(90L 1 STD)	3.40	3.25	0.0000	0.0000		2015/01/20	
35 (BAND 2 XS)	5.54	4.93	0.0000	0.0000	198.0	2016/01/11	NO COMMENTS
(BAND 2 XS)	5.54	4.93	0.0000	0.0000		2015/01/20	
40 (90L 2 80)	5.54	5.00	0.0000	0.0000	198.0	2016/01/11	NO COMMENTS
(90L 2 80)	5.54	5.00	0.0000	0.0000		2015/01/20	
45 (90L 2 80)	5.54	4.17	0.0000	0.0000	198.0	2016/01/11	LOW RDG IS MORE THAN 10% BELOW NOM-CA
(90L 2 80)	5.54	4.17	0.0000	0.0000		2015/01/20	

Inspected By	Signature	CGSB Level	CGSB No.	Survey Date	UT Equip	Due Date OF Calibration	NDE Procedure No.
Justin Orichowski		1	16325	01/11/2016	104_91638503_EPOCH4	06/27/2016	WQS UT-001

EXAMINATION ILLUSTRATION

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



POINT 30 (ELBOW) INSIDE SKIRT

NOTES:

PHOTOGRAPHS

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



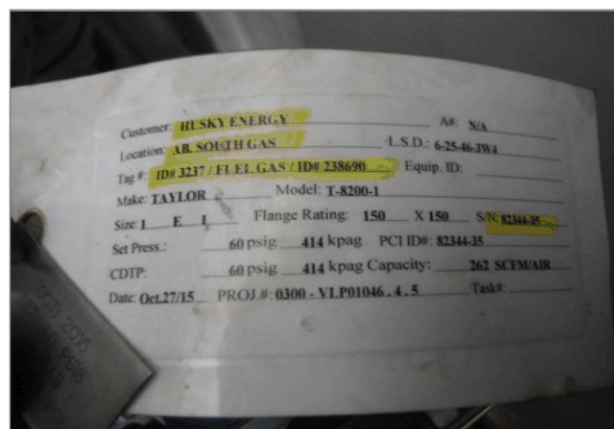
NAMEPLATE



OVERALL



PSV



PSV TAG



SEEPAGE



SEEPAGE

NOTES: