



Crescent Point

VISUAL INSPECTION REPORT-PRESSURE VESSEL

Inspection Type <input checked="" type="checkbox"/> External <input checked="" type="checkbox"/> Internal												
Date:		April 12, 2018				Description:			<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Exchanger <input type="checkbox"/> Furnace <input type="checkbox"/> Boiler			
Inspector:		Ryan Hogg				Unit #:			Equip #:			
Agent Co:		101292687 Saskatchewan LTD				Equip. Name:			FWKO Horizontal			
Location/LSD		BAT/05-20-004-04W2				CRN #:			A0338.324			
Province:		Saskatchewan				Manufacturer:			Fre-Flo/Kansteel Manufacturing			
Area:		Run 016 – Pinto/Taylorlton				Year Built:		1990	S/N:	4848		
Subarea:		Battery 05-20-004-04W2				Jurisdiction #:		SK7000103	PWHT	No		
Service		<input type="checkbox"/> Sweet <input checked="" type="checkbox"/> Sour <input type="checkbox"/> Other: _____				PSV Location			On Vessel		MDMT	-20 F
Vessel MAWP		50 PSI				Vessel MAWT			210 F		RT	
PSV Data	Set P	CPE#	Manufacturer	S/N	In. Sz.	Out. Sz.	Serv. Co.	Serv. Date	IV	CSO	Capacity	
Shell Side	50 PSI	5248	Taylor	01329 5-2	3"	3"	EMS	4/22018	N	N	1971scfm	
Tube Side									Y/N	Y/N		
Other									Y/N	Y/N		
Components		Material	Nominal t	CA	Retire t	Lowest t	t OK?	Calc. t-min	Comment			
	Shell	SA-516-70	¼"				<input type="checkbox"/> Y <input type="checkbox"/> N					
	Head	SA-516-70	5/16"				<input type="checkbox"/> Y <input type="checkbox"/> N					
	Channel						<input type="checkbox"/> Y <input type="checkbox"/> N					
	Tube						<input type="checkbox"/> Y <input type="checkbox"/> N					
Other							<input type="checkbox"/> Y <input type="checkbox"/> N		Specify:			
External Visual Inspection												
Orientation		<input checked="" type="checkbox"/> Hor. <input type="checkbox"/> Ver.		Foundation		<input type="checkbox"/> Concrete <input type="checkbox"/> Gravel <input type="checkbox"/> Timbers <input checked="" type="checkbox"/> Steel <input type="checkbox"/> Other:			Condition bolted to skid			
Support		<input checked="" type="checkbox"/> Saddle		<input checked="" type="checkbox"/> Seal-welded		<input checked="" type="checkbox"/> Free to Move		Condition				
		<input type="checkbox"/> Skirt		<input type="checkbox"/> Free of debris		Comment:		Condition				
		<input type="checkbox"/> Hangers		<input type="checkbox"/> Secure		Comment:		Condition				
		<input type="checkbox"/> Other		Specify:				Condition				
Overall		General Condition Painted with minor marks on shell and heads, inside building with head outside						Electrical grounding: <input type="checkbox"/> Direct <input checked="" type="checkbox"/> Indirect <input type="checkbox"/> None				
Ext. Surface		<input checked="" type="checkbox"/> Painted <input type="checkbox"/> Insulated <input type="checkbox"/> Fire-proofed <input type="checkbox"/> Cladded <input type="checkbox"/> Other : _____						Condition Minor marks and scrapes				
Ext. Fixtures		<input type="checkbox"/> Ladder <input type="checkbox"/> Platform(s) <input type="checkbox"/> Other:				Condition						
Nozzles		<input checked="" type="checkbox"/> Manway <input type="checkbox"/> Port		Size: Firetube and 20" MW			<input type="checkbox"/> Reinforcement Pads used		<input type="checkbox"/> Weep Holes Present			
		Comment: Acceptable no damages										
Davit Arm		<input type="checkbox"/> Present		<input type="checkbox"/> Greased		<input type="checkbox"/> Double Nut		Condition				



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Piping	<input checked="" type="checkbox"/> PSV	<input checked="" type="checkbox"/> Supported <input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Drains Properly <input type="checkbox"/> Well Coated	Comment
	<input checked="" type="checkbox"/> Inlet	<input checked="" type="checkbox"/> Supported <input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks <input type="checkbox"/> Well Coated	Comment
	<input checked="" type="checkbox"/> Outlet	<input checked="" type="checkbox"/> Supported <input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks <input type="checkbox"/> Well Coated	Comment
	<input checked="" type="checkbox"/> Drain	<input checked="" type="checkbox"/> Supported <input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks <input type="checkbox"/> Well Coated	Comment
	<input checked="" type="checkbox"/> Instrumentation <input type="checkbox"/> Process Fluid Identified	<input checked="" type="checkbox"/> Supported <input checked="" type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks/kinks <input type="checkbox"/> Flow direction marked	Comment Comment
Valves	<input checked="" type="checkbox"/> Manual Isolation Valve		<input checked="" type="checkbox"/> Free from leaks	Comment
	<input type="checkbox"/> Automated Control Valve		<input type="checkbox"/> Free from leaks	Comment
	<input type="checkbox"/> Vents and Drain plugged		<input type="checkbox"/> Free from leaks	Comment
Gauges	<input checked="" type="checkbox"/> Pressure	Reading:	Condition	
	<input type="checkbox"/> Temperature	Reading:	Condition	
Sight Glass	<input type="checkbox"/> Fluid Level	Reading:	Condition	
External Inspection Notes:				
Internal Visual Inspection				
Date:	April 12, 2018	Inspector	Ryan Hogg	
Scope:	A visual internal (VI) inspection was performed on all accessible shell and head surfaces, nozzles, welds, etc.			
Access:	<input checked="" type="checkbox"/> Manway	<input type="checkbox"/> Hand-hole	<input type="checkbox"/> Inspection Nozzle	Diameter:
Opening	Gasket Surfaces:	<input checked="" type="checkbox"/> Compliant with code	Comment	
	Nozzle Tube:	<input checked="" type="checkbox"/> No pitting, erosion, etc.	Comment	
Shell and Head Surfaces	Uniform Corrosion:	<input checked="" type="checkbox"/> Insignificant amount	Comment	
	Pitting Corrosion:	<input checked="" type="checkbox"/> None noted	Comment	
	Erosion:	<input checked="" type="checkbox"/> None noted	Comment	
	Mechanical Damage:	<input checked="" type="checkbox"/> None noted	Comment	
Welds	Uniform Corrosion:	<input checked="" type="checkbox"/> Insignificant amount	Comment	
	Pitting Corrosion:	<input checked="" type="checkbox"/> None noted	Comment	
	Welding Defects:	<input checked="" type="checkbox"/> None noted	Comment	
NDE	<input type="checkbox"/> NDT was performed by: _____			Extent:
	NDE Type:	NDE Type:		
	Results:			
Nozzles	Obstructions:	<input checked="" type="checkbox"/> None noted	Comment	



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	Corrosion:	<input checked="" type="checkbox"/> None noted	Comment
	Erosion:	<input checked="" type="checkbox"/> None noted	Comment
Attachments	<input type="checkbox"/> Vortex breaker	<input type="checkbox"/> Secure <input type="checkbox"/> Good Condition	Comment
	<input type="checkbox"/> Impingement plate	<input type="checkbox"/> Secure <input type="checkbox"/> Good Condition	Comment
	<input type="checkbox"/> Suction tube	<input type="checkbox"/> Secure <input type="checkbox"/> Good Condition	Comment
	<input type="checkbox"/> Demister	<input type="checkbox"/> Secure <input type="checkbox"/> Good Condition	Comment
	<input checked="" type="checkbox"/> Other: Gas dome	<input checked="" type="checkbox"/> Secure <input checked="" type="checkbox"/> Good Condition	Comment Coated internally no damages
Detailed Inspection Summary	<p>Inspection Practices: 2.0 Non-Fired Pressure Vessels</p> <p>Oil box is in place with no damages. Secure in shell, bolted to brackets. Coated throughout. Back manway and shell are free of damages with minor coating scrapes below the piping – repairs made with devoe patch. Piping and float supports in place with no damages.</p> <p>Center baffle in place with no damages. Coating on baffle weld to shell, 2 areas directly below the baffle, and the anode nozzle adjacent to the baffle in the shell had minor coating repairs completed with devoe. No corrosion on bare steel areas where coating was damaged.</p> <p>Gas dome was secure and in place. Internally coating with no damages.</p> <p>Shell manway had minor marks in the coating along the edges that were repaired with devoe patch.</p> <p>Firetube manway and blind were in acceptable condition with minor coating scrapes – areas of damages were repaired with devoe patch.</p> <p>Inlet deflector was bolted in place to shell on inlet piping, coating with no damages, bolts were checked for tightness and replaced as necessary.</p>		
Recommended Actions	Extend interval to 5 yr. No corrosion or concerns internally at this inspection.		
Integrity Status	Suitable for Continued Service <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Future Repairs Required		
Inventory Status	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Out of Service <input type="checkbox"/> Surplus <input type="checkbox"/> Rental <input type="checkbox"/> Scrap		

Visual External Inspection Interval: 5 yrs OR Changed to: _____ yrs.

Visual Internal Inspection Interval: 5 yrs OR Changed to: _____ yrs.

Ultrasonic Inspection Interval: _____ yrs OR Changed to: _____ yrs.

PSV Interval: _____ yrs OR Changed to: _____ yrs.

Class 1 Class 2 PEI Certificate #: PEI 128

IPV/IBPV Certificate #: _____

Inspectors Name: Ryan Hogg

Signature: 

Chief Inspector: I certify that the information on this report is true and all inspections as required by our Owner/User Quality Assurance Program # QMS-0036 which expires September 8, 2018 have been done.

Recommendations:



