



# Crescent Point

## VISUAL INSPECTION REPORT-PRESSURE VESSEL

Inspection Type <input checked="" type="checkbox"/> External <input checked="" type="checkbox"/> Internal												
Date:		September 28, 2015				Description:			<input checked="" type="checkbox"/> Vessel <input type="checkbox"/> Exchanger <input type="checkbox"/> Furnace <input type="checkbox"/> Boiler			
Inspector:		Ryan Hogg				Unit #:			Equip #:		851452	
Agent Co:		Core Integrity Inc.				Equip. Name:			Free Water Knock Out			
Location/LSD		Bat/05-20-004-04W2				CRN #:			A0338.324			
Province:		Saskatchewan				Manufacturer:			Fre-Flo / Kansteel			
Area:		Carlyle				Year Built:		1990	S/N:	4848		
Subarea:		Run 16- Pinto				Jurisdiction #:		7000103	PWHT	No		
Service		<input type="checkbox"/> Sweet <input checked="" type="checkbox"/> Sour <input type="checkbox"/> Other: _____				PSV Location			Top Head		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								Y/N	Y/N		
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	SA516-70	1/4"				<input type="checkbox"/> Y <input type="checkbox"/> N					
	Head	SA516-70	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:			
<b>External Visual Inspection</b>												
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 <b>No damages</b>			
Support		<input checked="" type="checkbox"/> Saddle		<input checked="" type="checkbox"/> Seal-welded		<input type="checkbox"/> Free to Move		Condition Bolted to steel skid				
		<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 <b>Painted - faded</b>						Electrical grounding: <input checked="" type="checkbox"/> Direct <input 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				
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: <b>18" and FT Blind</b>			<input type="checkbox"/> Reinforcement Pads used		<input type="checkbox"/> Weep Holes Present			
		Comment: <b>Coating chips on edges of manway</b>										



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<b>Davit Arm</b>	<input type="checkbox"/> Present	<input type="checkbox"/> Greased	<input type="checkbox"/> Double Nut	Condition
<b>Piping</b>	<input checked="" type="checkbox"/> PSV	<input checked="" type="checkbox"/> Supported <input 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 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 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 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 type="checkbox"/> Supported <input type="checkbox"/> Joined per code	<input checked="" type="checkbox"/> Free from leaks/kinks <input type="checkbox"/> Flow direction marked	Comment Comment
<b>Valves</b>	<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
<b>Gauges</b>	<input type="checkbox"/> Pressure	Reading:		Condition
	<input type="checkbox"/> Temperature	Reading:		Condition
<b>Sight Glass</b>	<input type="checkbox"/> Fluid Level	Reading:		Condition
<b>External Inspection Notes: Vessel is in acceptable condition externally, there are minor scrapes in the paint and fading throughout. No visible signs of leaks or damages.</b>				
<b>Internal Visual Inspection</b>				
<b>Date:</b>	Sept 28, 2015	<b>Inspector</b>	Ryan Hogg	
<b>Scope:</b>	A visual internal (VI) inspection was performed on all accessible shell and head surfaces, nozzles, welds, etc.			
<b>Access:</b>	<input checked="" type="checkbox"/> Manway <input type="checkbox"/> Hand-hole <input type="checkbox"/> Inspection Nozzle Diameter: <b>18" and Firetube manway - blinded</b>			
<b>Opening</b>	Gasket Surfaces:	<input checked="" type="checkbox"/> Compliant with code		Comment
	Nozzle Tube:	<input checked="" type="checkbox"/> No pitting, erosion, etc.		Comment <b>Coating damages repaired</b>
<b>Shell and Head Surfaces</b>	Uniform Corrosion:	<input checked="" type="checkbox"/> Insignificant amount		Comment <b>Coated 100% throughout</b>
	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
<b>Welds</b>	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
<b>NDE</b>	<input type="checkbox"/> NDT was performed by:		Extent:	
	NDE Type:	NDE Type:		
	Results:			



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<b>Nozzles</b>	Obstructions:	<input checked="" type="checkbox"/> None noted	Comment
	Corrosion:	<input checked="" type="checkbox"/> None noted	Comment
	Erosion:	<input checked="" type="checkbox"/> None noted	Comment
<b>Attachments</b>	<input checked="" type="checkbox"/> Vortex breaker	<input checked="" type="checkbox"/> Secure <input checked="" type="checkbox"/> Good Condition	Comment
	<input checked="" type="checkbox"/> Impingement plate	<input checked="" type="checkbox"/> Secure <input checked="" 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: <b>Gas Dome</b>	<input checked="" type="checkbox"/> Secure <input checked="" type="checkbox"/> Good Condition	Comment
<b>Detailed Inspection Summary</b>	<p>Vessel is in acceptable condition for continued service at the time of inspection.</p> <p>The vessel is coated 100% throughout.</p> <p>Coating was damaged: 1 chip on South head, 4" anodes internal scrapes and marks, firetube blind had 3 - 1/8" chipped areas. All areas were recoated with devoe. There were 3 areas of previous devoe internally on the shell at the 6:00 position in the South end; all were secure and left in place.</p> <p>The internal baffles, piping, gas dome and attachments were in place, secure and coated. Externally the FWKO was secure, partially inside a building, with minor scrapes and fading to the paint.</p> <p>The PSV was removed for servicing, service reports will be reviewed and interval assigned.</p>		
<b>Recommended Actions</b>	Vessel is in acceptable condition for continued service at the time of inspection.		
<b>Integrity Status</b>	Suitable for Continued Service <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Immediate Repairs Required <input type="checkbox"/> Future Repairs Required <input type="checkbox"/> Replace		
<b>Inventory Status</b>	<input checked="" type="checkbox"/> Active <input type="checkbox"/> Idle <input type="checkbox"/> Out of Service <input type="checkbox"/> Surplus <input type="checkbox"/> Scrap <input checked="" type="checkbox"/> Action Items Completed		

Visual External Inspection Interval: 3 yrs OR Changed to: \_\_\_\_\_ yrs.

Visual Internal Inspection Interval: 3 yrs OR Changed to: \_\_\_\_\_ yrs.

Ultrasonic Inspection Interval: 3 yrs OR Changed to: \_\_\_\_\_ yrs.

PSV Interval: yrs OR Changed to: \_\_\_\_\_ yrs.

IPV/IBPV Certificate #: **PEI 128**

Signature of In-Service Inspector: **Ryan Hogg**



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