		anadian Natura AL PRESSURE				RTI	D 10.116029		
District: Fort St. John	n, BC	Skid No.	Skid No.						
Facility: Flatrock Co	Location (L	Location (LSD): 15-20-85-17 W6M							
	ipment Number: Horizontal T	reater		,					
Orientation: Horizon									
Status: In Service			Regulato	Regulatory Inspection					
Status. In Scrvice	PRES	SSURE VESSEL		* *					
"A" or "G" or "S" (S	Sask.) or BC Registration Nun		CRN Number						
	C38596		H 8265.231						
Vessel serial number		Size: 6 ft x	H 8265.231 Size: 6 ft x 24 ft						
Shell thickness: Not				rial: Not Stated	d				
Head thickness: Not			Head material: Not Stated						
Tube wall thickness:				Tube material:					
Tube diameter:			Tube length:						
Channel thickness:				Channel material:					
MAWP	Shell: 70 PSI		Operating p	Operating pressure					
	Tubes:								
Design Temp.	Shell: 200 ° F	Operating t	Operating temperature						
	Tubes:								
X-ray: RT-4		Heat treatm	Heat treatment: Not Stated						
	SME Section VIII Div 1	Joint efficie	Joint efficiency (if on nameplate):						
Manufacturer: Natco	Canada Ltd.		Year built: 1994						
Corrosion allowance	: Not Stated	Manway: Y	Manway: Yes						
	PRESSUI	RE SAFETY VA	LVE NAMEPL	ATE DATA					
Tag Number(s)	Manufacturer /Model / Serial# and Code Stamp	Set Pressure (PSI)	Capacity (Scfm)	Size	Block Valve	Location	Serv by / Date		
6518F	Consolidated//1905JC- 2//B121795X-1- 4//UV/NB	70 PSI	2152 scfm	2x3	No	Top Shell	UVL 06/19/11		
	SERVICE C	CONDTIONS-IN	DICATE ALL	THAT APPL	Y				
Sweet	Sour X	Oil X		Gas X		Water X			
Amine	LPG	Condensate	Condensate		Air				
Other (Describe):									
Inspection Interval (Determined by MIC in congression reviewed and accept Mechanical Integrity		ving guidelines of Can	PSV Service I	rces Limited Ow	ner-User Insj	pection Program)			

Fill out all forms as completely as possible. <u>All information</u> is important! Use back of sheets to record additional information or sketch if required. Copy of report to be filed by MIC at site, and copy sent to Chief Inspector

External Inspection Items	G	F	P	N/A	Comments
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture. Are straps secured?					40% insulated. Insulation is in good condition. No open or torn sections.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, distortion etc (record location, size and depth of corrosion or damage)	X				Paint is in good condition. Areas with chipped paint present. No exposed metal – no corrosion. Primer paint exposed.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaks observed.
Skirt: Assess condition of paint, fire protection, and concrete. Look for corrosion, buckling, dents, etc. Look at vessel surface area near supports. Verify no signs of leakage at attachment to vessel and attachment welds are acceptable. Is ground wire attached?	X				Saddle: Paint is in good condition. No exposed metal – no corrosion. No buckling or dents present. No sign of leakage at attachment welds. Ground wire attached to skid.
Anchor Bolts Hammer tap to ensure secure. Look for corrosion, cracking in threads or signs of deformation.	X				Vessel is firmly bolted to skid.
Concrete foundation Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general condition, ensure support is secure to vessel, and describe any hazards.	X				Ladder is securely attached to vessel.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted? Inspect gussets for cracking.	X				Stud threads are fully engaged to nuts – no short bolts. No damage or deflections observed – no leaks. No gussets.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	X				Pressure gauge range is suitable for MAWP of vessel. Temperature gauge range is suitable for vessel max temp. Sight glass is clear and visible.
External Piping Ensure pipe is well supported. All clamps, supports, shoes, etc. in place. Look for evidence of structural overload, deflection, etc. Paint condition, external corrosion?	X				All piping is well supported; all clamps in place. No structural overloads or deflections noted. Paint is in overall good condition. Minor chipped paint present. Exposed metal – no corrosion.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Well supported – no leaking.
PSV Ensure PSV is set at pressure at or below that of vessel. Discharge piping is same size as valve outlet and is properly supported and routed. Are psv seals in place? Ensure no block valves between psv and vessel, or if there is that they are locked/sealed open.	X				Located on top shell – set at MAWP of vessel. Seal intact – no block valve – discharges to closed header.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				UT thickness survey carried out – no metal thickness detected below nominal minus corrosion allowance.

Recommendations or corrective actions: (Vessel is Fit for Service or describe corrective actions required)

(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

Recommendations: Repaint areas on shell and piping where missing paint.

Summary: Vessel is in overall good condition, visual external inspection and ultrasonic corrosion survey performed - no metal thickness detected below nominal minus corrosion allowance.

Corrosion rate based on greatest thickness loss (nozzle) 0.150mm per year. Retirement Date to "T"min is year 2047.

Vessel is fit for service.

API 20981

Inspected By: Dellas Wiedman // Justin Smith

Date: April 01, 2015

Photo Table





PSV Service Tag

PSV Service Tag