

**Canadian Natural Resources Limited
GENERAL PRESSURE VESSEL INFORMATION**

05.002795

District: Fort St. John BC.				Skid No.		
Facility: Bucking Horse Compressor Station				Location (LSD): d-44-A/94-G-10		
Vessel Name Equipment Number: Flare Knock out Drum						
Orientation: Horizontal						
Status: In Service				Regulatory Inspection		
PRESSURE VESSEL NAMEPLATE DATA						
“A” or “G” or “S” (Sask.) or BC Registration Number. A 501923				CRN Number: R-2525.213		
Vessel serial number: 13052				Size: 8 ft. x 10 ft.		
Shell thickness: 9.5mm				Shell material: SA 516 70N		
Head thickness: 8.0mm				Head material: SA 516 70N		
Tube wall thickness:				Tube material:		
Tube diameter:				Tube length:		
Channel thickness:				Channel material:		
Design pressure	Shell: 50 PSI			Operating pressure	Shell:	
	Tubes:				Tubes:	
Design Temp.	Shell: 200 Deg F			Operating temperature	Shell:	
	Tubes:				Tubes:	
X-ray: Nil				Heat treatment: Nil		
Code parameters: ASME VIII, Div 1				Coated: Not stated		
Manufacturer: Bilton				Year built: 2003		
Corrosion allowance: 3.2mm				Manway: Yes		
PRESSURE SAFETY VALVE NAMEPLATE DATA						
PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet	Sour X	Oil		Gas X	Water X	
Amine X	LPG	Condensate X		Air	Glycol	
Other (Describe):						

Inspection Interval _____ **PSV Service Interval** _____
 (Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL Owner-User Inspection Program)

Reports reviewed and accepted by:
Mechanical Integrity Coordinator _____ **Date** _____

Fill out all forms as completely as possible. All information 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.	X				Vessel foam applied insulation. No damage present- sealed around nozzles manway. No egress of moisture.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				Paint in good overall condition – No exposed metal.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaks observed.
Saddle/Skirt Assess condition of paint, fire protection, 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. Ground wire attached?	X				Saddle: bolted directly to skid floor. Skid welded to pilings No buckling or dents. No corrosion at attachment welds to vessel. Ground wire attached to skid and pilings.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Anchor bolts are securely fastened. No deformation.
Concrete foundation Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.				X	
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				Stud threads are fully engaged to nuts. No leaks observed. No damage or deflections. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.				X	No gauges on vessel.
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				Piping is well supported – all clamps and supports are in place. No structural overloads or deflections. Paint in good condition- no exposed metal.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.				X	No valves.
PSV Ensure PSV is set at pressure at or below that of vessel.				X	No PSV – vent to flare.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic thickness survey carried out – no metal thickness detected below nominal minus corrosion allowance.
Other					
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: No recommendations at this time Summary: Vessel is in overall good condition, visual external inspection and ultrasonic corrosion survey performed—No metal thickness detected below nominal minus corrosion allowance. Vessel is fit for service.					

Photo Table



LSD



vessel data plate



vessel overview