

Canadian Natural Resources Ltd.
GENERAL PRESSURE VESSEL INFORMATION

Job# 105.00390

District: Fort St John, BC		Skid No.				
Facility: Ladyfern Compressor		Location (LSD): b-17-I/94-H-01				
Vessel Name Equipment Number: LP 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. C# 24158		CRN Number: Non-code				
Vessel serial number: KOTK-FB-T75-10710		Size: 6' X 10'				
Shell thickness: 4.8mm		Shell material: SA-516-70				
Head thickness: 4.8mm		Head material: SA-516-70				
Tube wall thickness:		Tube material:				
Tube diameter:		Tube length:				
Channel thickness:		Channel material:				
Design pressure	Shell: 102.7 Kpa	Operating pressure	Shell: No gauge			
	Tubes:		Tubes:			
Design Temp.	Shell: N/S	Operating temperature	Shell: No gauge			
	Tubes:		Tubes:			
X-ray: Nil		Heat treatment: N/S				
Code parameters: Non-code		Coated: No				
Manufacturer: Bilton Welding & Manufacturing Ltd.		Year built: 2000				
Corrosion allowance: N/S		Manway: Yes				
PRESSURE SAFETY VALVE NAMEPLATE DATA						
PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (PSI)	Capacity (scfm)	Service Date
		Atmospheric				
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet X	Sour	Oil	Gas X	Water X		
Amine	LPG	Condensate X	Air	Glycol		
Other (Describe):						

Inspection Interval _____ **PSV Service Interval** _____
(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's 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				This vessel is insulated and clad with aluminum – it is in good overall condition. No ripped or torn section – no visible sign of moisture egress.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)				X	Insulated.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaking detected.
Saddle 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. Ground wire attached?	X				No distortion to saddles – no leaks at saddle to shell welds. No exposed metal – no corrosion. Ground cable firmly secured to skid & pilings.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Flare Knock Out Drum is firmly welded to pilings.
Concrete foundation Check for cracks, spalling, etc.				X	None.
Ladder / Platform Describe general condition, ensure support is secure to vessel, and describe any hazards.				X	None.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				All threads connections fully engaged. No deflection – no leaks. No gussets.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.				X	No gauges were found on this 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				Well supported – no deflection – all clamps and shoes in place. Piping is painted and in good condition – no exposed metal or surface corrosion found.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Well supported – no leaks.
PSV Ensure PSV is set at pressure at or below that of vessel.				X	No PSV on this vessel.
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.
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: 1. No recommendations at this time. Summary: This vessel is in good over all condition, visual external and ultrasonic thickness survey carried out-no metal thickness detected below nominal. Vessel is fit for service.					

Inspected By: Joe Holdstock

Date: June-04-2010.



LSD location



Site overview



Data plate



Overview