

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

Job# 10.116302

District: Fort St. John B.C.	Skid No.
Facility: Dahl Compressor Station	Location (LSD): LSD b-61-H/94-H-7 Compressor
Vessel Name Equipment Number: Line Heater	
Orientation: Horizontal	
Status: In Service	Regulatory Inspection

PRESSURE VESSEL NAMEPLATE DATA

“A” or “G” or “S” (Sask.) or BC Registration Number. C23331	CRN Number: P3216.21
Vessel serial number: 00-2163-1	Size: 28 in. X 92inch.
Shell thickness: 7.9mm	Shell material: SA 36
Head thickness: 6.4mm	Head material: SA 36
Tube wall thickness:	Tube material:
Tube diameter:	Tube length:
Channel thickness:	Channel material:
Design pressure	Operating pressure
Shell: 2025PSI	Shell:
Tubes: 5625PSI	Tubes:
Design Temp.	Operating temperature
Shell: 200 Deg F	Shell:
Tubes:	Tubes:
X-ray: RT 1	Heat treatment: HT
Code parameters: ASME VIII, Div 1	Coated: no
Manufacturer: Wells hall Manufacturing	Year built: 2001
Corrosion allowance: 1.6mm	Manway: Yes

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture / Model / Serial	Set Pressure (PSI / kPa)	Capacity (scfm)	Size	Block Valve	Location	Service Date
No PSV							

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet <input checked="" type="checkbox"/>	Sour	Oil	Gas <input checked="" type="checkbox"/>	Water
Amine	LPG	Condensate	Air	Glycol <input checked="" type="checkbox"/>
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				Insulation in good condition. No ripped or torn sections. No signs 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				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, 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				Saddles: bolted directly to skid floor. No buckling or dents. No corrosion at attachment welds to vessel. Ground wire attached to vessel.
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, and describe any hazards.				X	No Ladder
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 short bolting. No damage or deflections – no leaks. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	X				Clear and clean – no leakage. Suitable for operational range of vessel. Temperature gauge 0 – 250 Deg F.
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; no deflection, all clamps and supports are in place. Paint in good condition – no exposed metal.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Valves are supported properly – no leaks.
PSV Ensure PSV is set at pressure at or below that of vessel.				X	No PSV
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					
<p>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 condition, visual external and ultrasonic thickness inspection carried out – no metal thickness detected below nominal minus corrosion allowance. Vessel is fit for service.</p>					

Inspected By: Matt Wood (API 510 # 42758) (PESL#677)



Date: June 14th, 2015

Photo Table



LSD



Vessel Overview



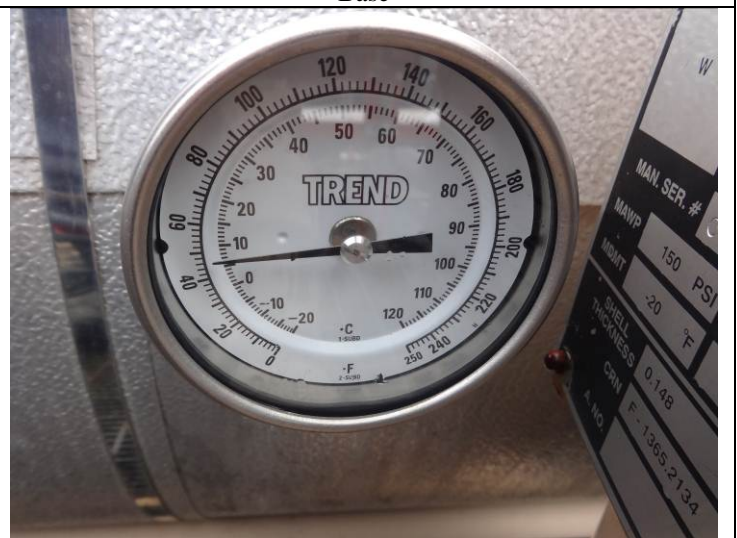
Vessel Data Plate



Base



Burner end



Temperature Gauge