

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: Dehy Tower							
Orientation: Vertical							
Status: In Service				Regulatory Inspection			
PRESSURE VESSEL NAMEPLATE DATA							
"A" or "G" or "S" (Sask.) or BC Registration Number. RAE# 5237				CRN Number: P-5756.21			
Vessel serial number: 01-C5344-3000B				Size: 34" X 30'			
Shell thickness: 50.8mm				Shell material: SA-516-70N			
Head thickness: 45.7mm				Head material: SA-516-70N			
Tube wall thickness:				Tube material:			
Tube diameter:				Tube length:			
Channel thickness:				Channel material:			
Design pressure	Shell: 14500 Kpa			Operating pressure	Shell: 7000 Kpa		
	Tubes:				Tubes:		
Design Temp.	Shell: 149 deg C			Operating temperature	Shell: 20 deg C.		
	Tubes:				Tubes:		
X-ray: RT-1				Heat treatment: Yes			
Code parameters: ASME Sec VIII				Coated: No			
Manufacturer: Wells Hall Manufacturing Ltd.				Year built: 2001			
Corrosion allowance: N/S				Manway: No			
PRESSURE SAFETY VALVE NAMEPLATE DATA							
PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (PSI)	Capacity (scfm)	Service Date	
N/S	Farris	27DA33H-M20	433939-1-KE	14500 Kpa	4683	08/2003	
CRN #	Service By	Block Valve	Location	Size	Code Stamp		
0G0386.9C	Pimms	No	Inlet piping	1"X1"	UV/NB		
SERVICE CONDITIONS-INDICATE ALL THAT APPLY							
Sweet X	Sour		Oil		Gas X	Water X	
Amine	LPG		Condensate		Air	Glycol X	
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	Vessel is not insulated.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				Paint is in good overall condition – No chipped or exposed metal - no previous corrosion.
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 skirt – no leaks at skirt to shell welds. No exposed metal – no corrosion. Ground cable attached to skid unit.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Contactor is firmly bolted to skid floor - no signs of deformation.
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	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				Gauges are visible, appears to be functional, no leaks and suitable for range of MAWP/Temp. Pressure gauge: 0 - 20000 Kpa – 7000 Kpa @ gauge. Temperature gauge: -20 – 120 deg C / 20 deg C @ gauge.
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. All 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				Located on the gas inlet piping - set at the Contactors MAWP. Discharge piping is the same size as the inlet to PSV. No block valve present. Seal is intact. PSV vents 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: 1. This PSV is over due for servicing – last known service was in 2003. Summary: This vessel is in good over all condition, visual external and ultrasonic thickness survey carried out-no metal thickness detected below nominal minus corrosion allowance. Vessel is fit for service.					

Inspected By: Joseph Holdstock

Date: June-03-2010.



LSD location



Site overview



Data plate



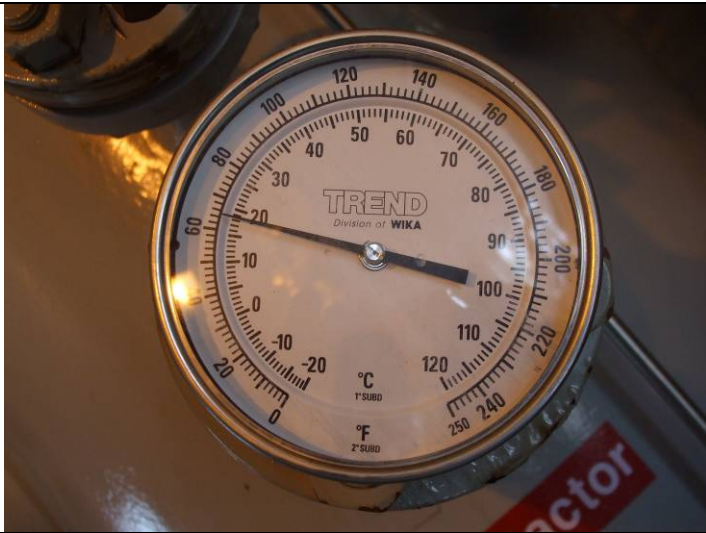
Overview



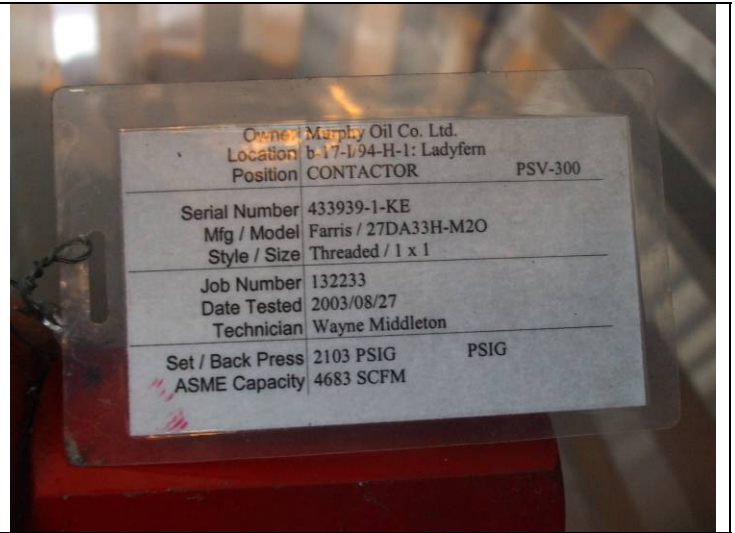
Pressure gauge



Overview



Temperature gauge



PSV service tag