

**Canadian Natural Resources Ltd.
GENERAL PRESSURE VESSEL INFORMATION**

Job# 105.00390

District: Fort St John, BC	Skid No.
Facility: Ladyfern Compressor	Location (LSD): b-88-H/94-H-01
Vessel Name Equipment Number: Glycol Contactor	
Orientation: Vertical	
Status: In Service	Regulatory Inspection

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. A0516940		CRN Number: P-1238.213	
Vessel serial number: 2004-7280-01C		Size: 24 in X 30 ft	
Shell thickness: 25.4mm		Shell material: SA-516-70MT	
Head thickness: 27.1mm		Head material: SA-516-70MT	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 9674 Kpa	Operating pressure	Shell: 7900 Kpa
	Tubes:		Tubes:
Design Temp.	Shell: 66 deg C	Operating temperature	Shell: 30 deg C.
	Tubes:		Tubes:
X-ray: RT-2		Heat treatment: No	
Code parameters: ASME Sec VIII		Coated: No	
Manufacturer: Alco Gas & Oil Ltd.		Year built: 2004	
Corrosion allowance: 3.2		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (PSI)	Capacity (scfm)	Service Date
1747F	Mercer	81-34251T27G21	49380	9674 Kpa	11233	06/2010
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
0G2606.5C	Unified	No	Lower Shell	1.5"X 2"	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 - 11000 Kpa – 7900 Kpa @ gauge. Temperature gauge: -20 – 120 deg C – 30 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					
<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)</p> <p>Recommendations: 1. No recommendations at this time.</p> <p>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.</p> <p>Vessel is fit for service.</p>					

Inspected By: Joseph Holdstock

Date: June-06-2010.



LSD location



Site overview



Data plate



Overview



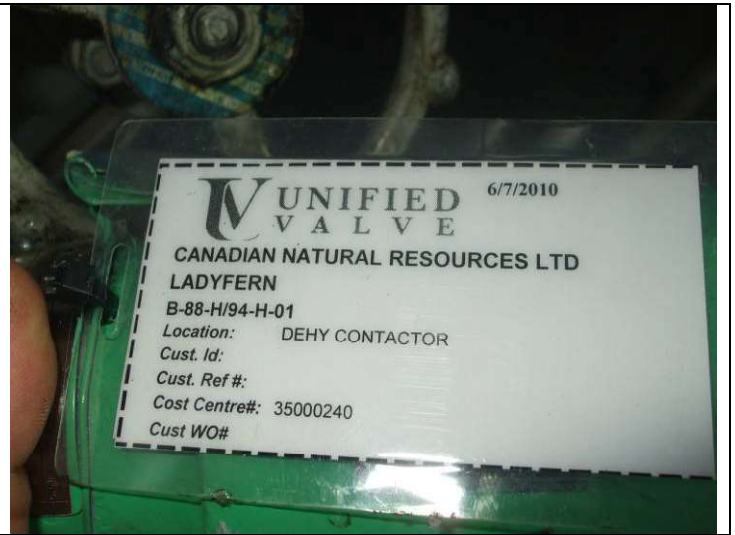
Pressure gauge



Overview



Temperature gauge



PSV service tag



PSV service tag



PSV location