

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

**Job 10.112774**

District: <b>Fort St. John North</b>	Skid No.
Facility: <b>Adsett Water Injection Facility</b>	Location (LSD): <b>b-63-G/94-J-02</b>
Vessel Name Equipment Number: <b>Inlet Separator</b>	
Orientation: <b>Horizontal</b>	
Status: <b>Not In Service</b>	<b>Regulatory Inspection</b>

**PRESSURE VESSEL NAMEPLATE DATA**

"A" or "G" or "S" (Sask.) or BC Registration Number.  <b>A0416035</b>		CRN Number: N 2385.213	
Vessel serial number: 4626		Size: 36 in x 10 ft	
Shell thickness: N/S		Shell material: SA 516 70 N	
Head thickness: N/S		Head material: SA 516 70 N	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 1440 PSI	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell: 130 F	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: RT 1		Heat treatment: HT	
Code parameters: ASME VIII / Div 1		Coated: N/S	
Manufacturer: Penfabco Ltd.		Year built: 1996	
Corrosion allowance: .125"		Manway: No	

**PRESSURE SAFETY VALVE NAMEPLATE DATA**

PSV Tag #	Manufacture / Model / Serial	Set Pressure (PSI / kPa)	Capacity (scfm)	Size	Block Valve	Location	Service by Date
	Farris / 26JA14-120/SD / CL-43315-3-A10	1440 PSI	35894	2.5 x 4	No	Upper Shell	DALCO 07/2003

**SERVICE CONDITIONS-INDICATE ALL THAT APPLY**

Sweet	Sour X	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

<b>External Inspection Items</b>	G	F	P	N/A	<b>Comments</b>
<b>Insulation</b> Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.				X	<b>Vessel not insulated</b>
<b>External Condition</b> Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				<b>Paint in good overall condition – no exposed metal – no corrosion</b>
<b>Leakage</b> Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				<b>No leaks observed</b>
<b>Saddle/skirt</b> 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				<b>Saddle is in good condition – no corrosion or exposed metal – no buckling or dents – no sign of leaks at attachment welds – vessel is grounded through skid package</b>
<b>Anchor Bolts</b> Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				<b>Vessel is securely welded to skid floor – no signs of deformation</b>
<b>Concrete foundation</b> Check for cracks, spalling, etc.				X	<b>None</b>
<b>Ladder / Platform</b> Describe general condition, ensure support is secure to vessel, and describe any hazards.	X				<b>None</b>
<b>Nozzle</b> Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				<b>Paint in good condition – no leaks – studs threads are fully engaged – no damage or deflection – no gussets</b>
<b>Gauges</b> Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	X				<b>Gauges are clear and functional – within range for service – Pressure gauge: 0 – 2000 PSI</b>
<b>External Piping</b> 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				<b>Piping is well supported – all clamps in place – no evidence of structural overload – no deflections – paint in good condition – no corrosion</b>
<b>Valving</b> Ensure no leaks are visible. Valves are properly supported and chained if necessary.					<b>Valves properly supported – no visible leaks</b>
<b>PSV</b> Ensure PSV is set at pressure at or below that of vessel.	X				<b>Located on outlet piping – set at MAWP of vessel. Seal intact – no block valve – discharge piping same size as outlet orifice.</b>
<b>NDE methods</b> Was UT/ MPI done on vessel (MI coordinator to review results)				X	<b>No NDE at this Time.</b>
<b>Other</b>					
<b>Recommendations or corrective actions : Vessel is Fit for Service or describe corrective actions required)</b> (MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented) <b>Recommendations:</b> No recommendations at this time. <b>Summary: This vessel is in good condition, visual inspection carried.</b> <b>Vessel is fit for service.</b>					

**Inspected By:** Andrew Neis / D. Wiedman

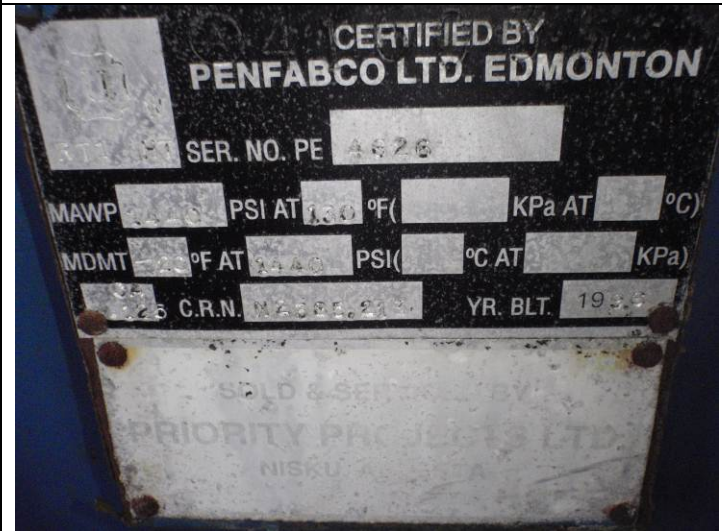
**Date:** February 17, 2013



LSD



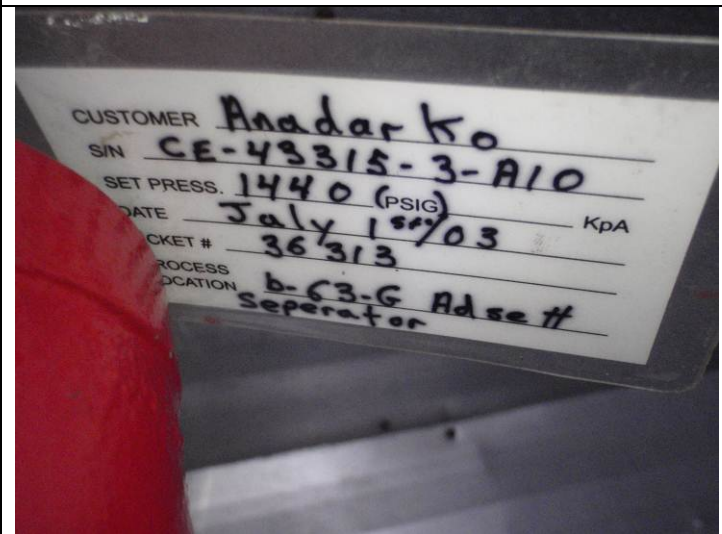
Overview



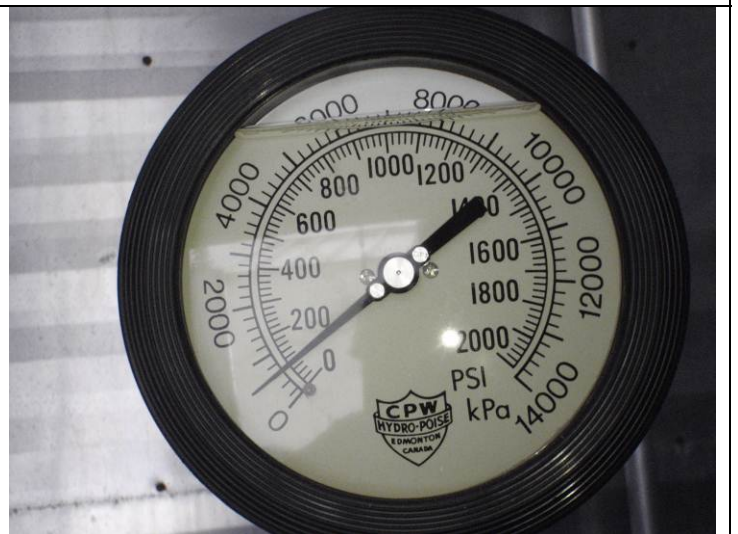
Data Plate



PSV



PSV Tag



Pressure Gauge