Canadian Natural Resources Limited
GENERAL PRESSURE VESSEL INFORMATION **Job 10.112838**

District: **Fort St. John North**	Skid No.
Facility: **Daiber Compressor Station**	Location (LSD): **c-76-D/94-B-16**
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. **A2573913**		CRN Number: **F 9192.1**	
Vessel serial number: 89C-4199-01		Size: 24in x 28ft	
Shell thickness: 28.5 mm		Shell material: SA 516 70N	
Head thickness: 27.3 mm		Head material: SA 516 70N	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 1415 PSI	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell: 100 °F	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: RT-1		Heat treatment: HT	
Code parameters: ASME VIII, Div 1		Coated: No	
Manufacturer: Alco Gas And Oil		Year built: 1989	
Corrosion allowance: 3.1 mm		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
7645F	Farris / 26FA-13-120 / 461041-A10	1415 PSI	9168	1.5 x 2	No	Mid Shell	Unified 10/2009

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet	Sour X	Oil	Gas X	Water X
Amine	LPG	Condensate X	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_____

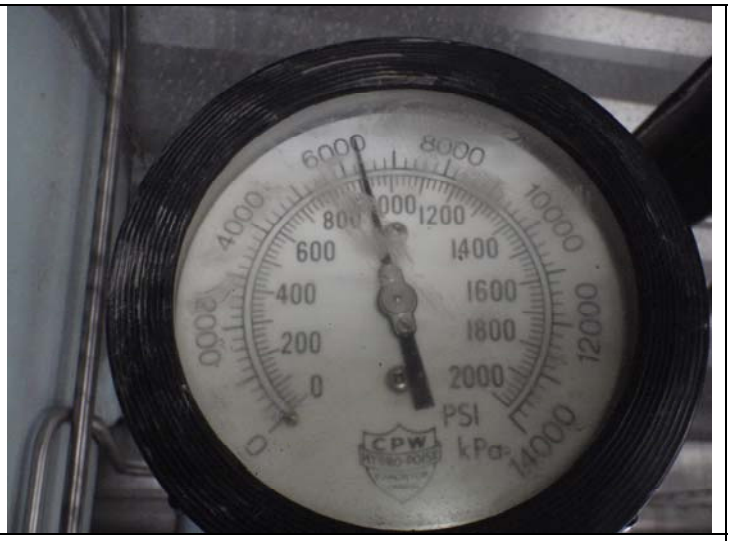
Fill out all forms as completely as possible. <u>All information</u> is important! Use back of sheets to record additional information or sketch if required.
Copy of report to be filed by MIC at site, and copy sent to Chief Inspector

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 partially insulated – no open or torn section – sealed around nozzles – no egress of moisture**
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 corrosion – no damage**
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**				**Skirt in good overall condition: bolted directly to skid floor – no corrosion – no buckling or dents - no sign of leaking – ground wire attached to skid**
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	**X**				**Vessel is securely bolted to skid floor – no sign 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**				**Ladder and cage in good overall condition – secured directly to vessel shell – no loose or missing sections**
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	**X**				**Nozzle paint in good condition – missing paint to less than 10% - no corrosion – all stud threads fully engaged – no leaks – no damage or deflection – nozzles are not gusseted**
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	**X**				**Gauges clean and functional – within range for service: 0 – 2000 PSI and -40 – 160 °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 – all clamps in place – no evidence of structural overload – no deflection – paint in good condition – no corrosion**
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	**X**				**Valves properly supported – no sign of leaking**
PSV Ensure PSV is set at pressure at or below that of vessel.	**X**				**PSV is set at MAWP – seal intact – no block valve – PSV discharge piping does not reduce form PSV discharge orifice size**
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	**X**				**Ultrasonic corrosion 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:
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.

Inspected By: Andrew Neis / D. Wiedman **Date:** March 5, 2013

	
LSD	Overview
	
Data Plate	PSV
	
PSV Tag	Overview

	
	Pressure Gauge