Canadian Natural Resources Limited
GENERAL PRESSURE VESSEL INFORMATION Job # 05.001541

District: **Ft. St. John B.C.**	Skid No.
Facility: **Townsend Compressor Station.**	Location (LSD): **a-17-J / 94-B-9**
Vessel Name Equipment Number: **Heat Medium Heater**	
Orientation: **Horizontal**	
Status: **In Service**	**Regulatory Inspection**

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. **C 23440**		CRN Number: **N 3740.213**	
Vessel serial number: 3367		Size: 28 in. x 117 in.	
Shell thickness: 6.4 mm		Shell material: SA 36	
Head thickness: 6.4 mm		Head material: SA 36	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 3377 psi	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell: 250°F	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: RT-1		Heat treatment: Nil	
Code parameters: ASME Sec IV		Coated: No	
Manufacturer: Moss Fabrication		Year built: 2000	
Corrosion allowance: Not Stated		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure	Capacity (scfm)	Set Date
CRN #	Service By	Block Valve	Location	Size	Code Stamp	

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet X	Sour	Oil	Gas X	Water
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)

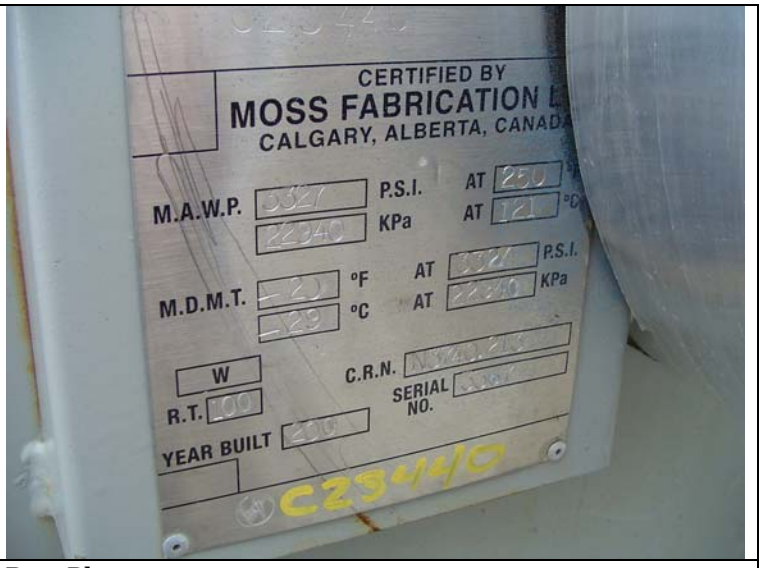
Reports reviewed and accepted by:
Mechanical Integrity Coordinator_____Date_____

Fill out all forms as completely as possible. <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**				**Good condition, no open or torn sections.**
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 condition – no exposed metal – no corrosion.**
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	**X**				**No leakage noted.**
Skirt: Assess condition of paint, fire protection, 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 – no distortion – no mechanical damage.** **No corrosion at saddle to shell attachments – no leaks.**
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	**X**				**Firmly bolted to skid.**
Concrete foundation Check for cracks, spalling, etc.				**X**	**Steel skid.**
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.				**X**	**No ladders or platforms required.**
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	**X**				**Threaded fittings – fully engaged. Flanged fittings have all studs engaged to nuts – no short bolts** **No deflection – no leaks.** **No gussets.**
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	**X**				**Temperature gauge attached and within range listed on data plate.**
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 in place.** **Paint is in good condition – no exposed metal.**
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	**X**				**All valves supported, no leaks noted.** **No chains required**
PSV Ensure PSV is set at pressure at or below that of vessel.				**X**	**No PSV for this vessel / piping combination.**
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	**X**				**Ultrasonic thickness inspection carried out, no metal thickness detected below nominal – no pitting detected.**

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: No recommendations at this time.
Summary: This vessel is in good overall condition, visual external and ultrasonic thickness inspection carried out – no metal thickness detected below nominal.
Vessel is fit for service.

Inspected By: Dellas Wiedman **Date:** March 21 – 2008

	
Over view	**Data Plate**