Canadian Natural Resources Limited
GENERAL PRESSURE VESSEL INFORMATION **Job # 05.002122**

District: **Fort St John, B.C.**	Skid No.
Facility: **Caribou Compressor Station**	Location (LSD): **d-62-C/94-A-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. **A 3098592**		CRN Number **M-2316.21**	
Vessel serial number: 95-7977-0		Size: 23 in X 32 ft	
Shell thickness: 28.6 mm		Shell material: SA 516 70MT	
Head thickness: 30.6 mm /30.9 mm		Head material: SA 516 70MT	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
MAWP	Shell: 1440 PSI	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell: 130 deg F	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: RT-1		Heat treatment: Yes	
Code parameters: **ASME Sec VIII, Div 1**		Coated:	
Manufacturer: Wells-Hall Fabrication.		Year built: 1995	
Corrosion allowance: 3.2mm		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
9264F	**Farris**	**26EA13-120**	**480467-4-A10**	**1440 PSI**	**5501**	**New**
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
0G8841.5C	**Unified Valve**	**No**	**Lower Shell**	**1" X 2"**	**UV/NB**	

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet	Sour X	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:

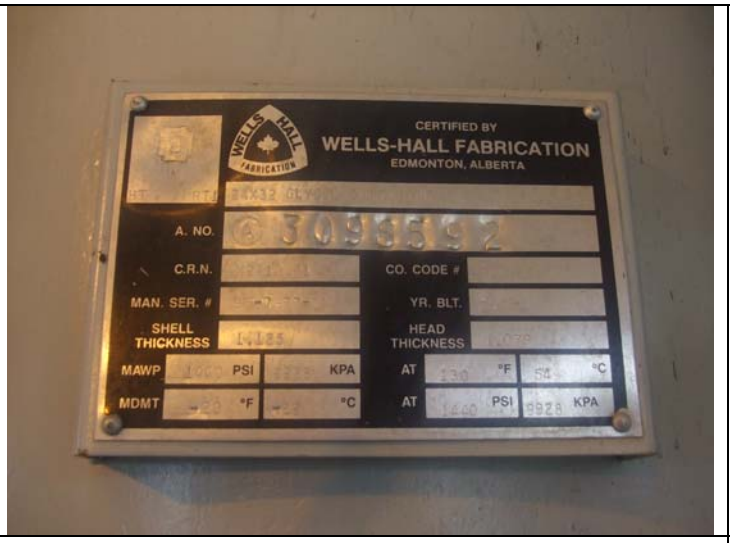
Mechanical Integrity Coordinator_____Date_____

Fill out all forms as completely as possible. <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**	**No insulation.**
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 – little to no external surface corrosion or exposed metal.**
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	**X**				**No leaking detected.**
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 is in good condition – no buckles or distortion.** **Paint intact – with little to no corrosion.** **Vessel grounded at the skid.**
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	**X**				**Firmly secured.** **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 gusseted?	**X**				**All threads engaged.** **No deflection – no leaks.** **No gussets.** **Painting good overall condition.**
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	**X**				**Gauge is visible, working, and suitable for range of Temp/MAWP.** **Temperature gauge: 0 to 250 deg F / operating @ 90 deg F.** **Pressure gauge: 0 – 3000 PSI / operating @ 900 PSI.**
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.** **Piping is painted and is in good overall condition.**
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 Lower Shell, set below MAWP.** **Seal intact – No block valve.** **Outlet piping same size as orifice.**
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: 1) No recommendations at this time.
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: **Joe Holdstock** **Date: July 26, 2008**



Data Plate Overview

Overview

Overview

Pressure gauge

Temperature gauge