

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

District: Grande Prairie, AB	Skid No.
Facility: North Tony Creek Gas Gathering	Location (LSD): 16-07-65-20-W5M
Vessel Name Equipment Number: Glycol Contactor.	
Orientation: Vertical	
Status: Not in service. (No blind flanges)	Regulatory Inspection

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. A# 416313		CRN Number: F-9578.2	
Vessel serial number: 96C-5604-05		Size: 20 in x 28 ft.	
Shell thickness: 22.2 mm		Shell material: SA516-70	
Head thickness: 21.3 mm		Head material: SA516-70	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 9929 kpa	Operating pressure	Shell: Not Operating
	Tubes:		Tubes:
Design Temp.	Shell: 54 C	Operating temperature	Shell: Not Operating
	Tubes:		Tubes:
X-ray: RT-2		Heat treatment: No	
Code parameters: ASME VIII, Div 1		Coated: Not stated.	
Manufacturer: Alco Gas & Oil		Year built: 1996	
Corrosion allowance: 0 mm		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
	Mercer	8114421117	36461	9901	4939	2002
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
N/S	Unified Valve	No	Upper Shell.	1" x 1" NPT	UV/NB.	

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

<u>Sweet</u>	Sour	Oil	<u>Gas</u>	<u>Water</u>
Amine	LPG	Condensate	Air	<u>Glycol</u>

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				<ul style="list-style-type: none"> • Upper section of vessel is insulated. • Insulation in good shape throughout. • No evidence of water egress.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				<ul style="list-style-type: none"> • Paint in good condition. • No damage or corrosion noted. • No areas of paint peeling.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				<ul style="list-style-type: none"> • No leakage noted, vessel not in service at time of inspection.
Saddle/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				<ul style="list-style-type: none"> • No fire protection. • No corrosion or mechanical damage noted. • No signs of leakage and all welds acceptable. • Ground wire connected.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				<ul style="list-style-type: none"> • All bolts tight and in place. • No cracking or deformation noted.
Concrete foundation Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.				X	
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				<ul style="list-style-type: none"> • Paint in good condition. • All bolts fully engaged. • No damage or deflection noted. • No gussets.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	X				<ul style="list-style-type: none"> • All gauges visible. • Suitable for MAWP and Temp of vessel.
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				<ul style="list-style-type: none"> • All piping well supported with all shoes and clamps in place as required. • No overload or deflection noted. • Paint in good condition with no external corrosion noted.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				<ul style="list-style-type: none"> • Well supported, no visible leaks noted. (vessel not operating).
PSV Ensure PSV is set at pressure at or below that of vessel.	X				<ul style="list-style-type: none"> • PSV set @ 9901 kpa. • MAWP of vessel is 9929 kpa.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				<ul style="list-style-type: none"> • Ultrasonic thickness inspection carried out – no metal thickness detected below nominal.
<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) Recommendations: None Summary. This vessel is in good condition, visual external and ultrasonic thickness inspection carried out – no metal thickness detected below nominal. Vessel is fit for service.</p>					

Inspected by: C. Menzies.

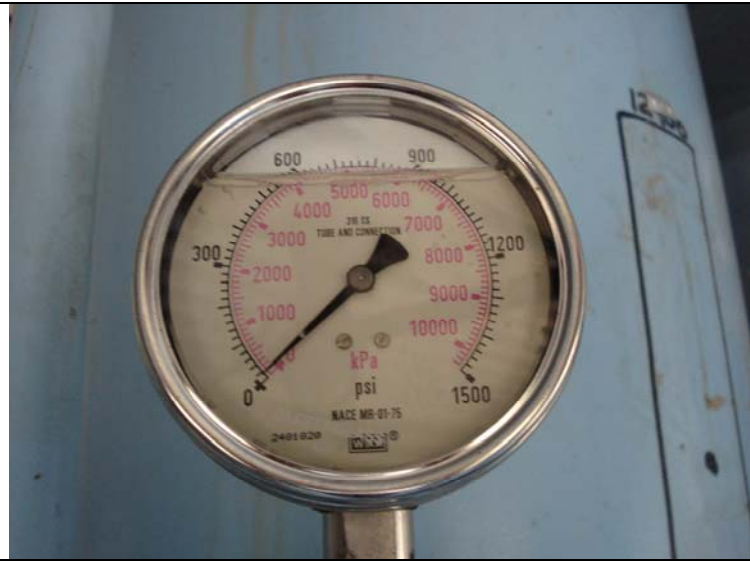
Date: September, 20 2008.



Overview.



Data Plate



Pressure Gauge



Temp Gauge



PSV location



View of shell below roof.