

**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: Glycol Contactor	
Orientation: Vertical	
Status: In Service	Regulatory Inspection

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. A 491800		CRN Number: L 9722.21	
Vessel serial number: 02-3812-1		Size: 24 in x 26 ft	
Shell thickness: 25.4 mm		Shell material: SA 516 70N	
Head thickness: 27.0 mm		Head material: SA 516 70N	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 1410 PSI	Operating pressure	Shell:
	Tubes:		Tubes:
Design Temp.	Shell: 150 deg F	Operating temperature	Shell:
	Tubes:		Tubes:
X-ray: RT-1		Heat treatment: HT	
Code parameters: ASME VIII Div 1		Coated: No	
Manufacturer: Opsco Ind.		Year built: 2003	
Corrosion allowance: 3.2mm		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure	Capacity (scfm)	Set Date
8946F	Farris	27FA45 – M20	451002-2-KE	9722 Kpa	8819 Scfm	06/05
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
Not Stated	Unified	No	Lower Shell	1.5 x 2	UV	

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)

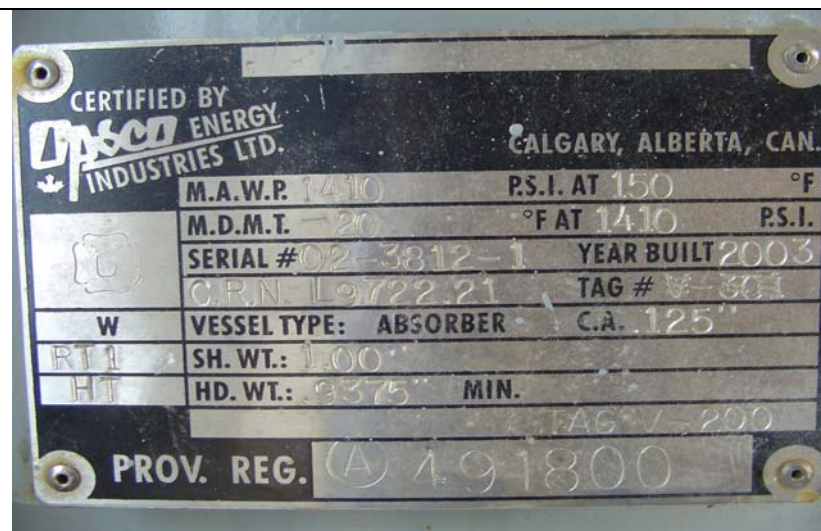
Reports reviewed and accepted by:
Mechanical Integrity Coordinator _____ **Date** _____

Fill out all forms as completely as possible. 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	Non insulated vessel.
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 through -out, with no corrosion occurring.
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				Skirt: No distortion – no mechanical damage. No corrosion at shell to skirt – no leaks. Skid package is grounded.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				All bolts tight and secure, no signs of deformation.
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				Studs fully 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 and pressure gauge attached – 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				Piping is well supported – no evidence of overload or deflection. 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				Located on lower shell – set at MAWP of vessel. Seal intact – no block valve – discharge piping same size as outlet orifice.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic thickness inspection carried out, bottom head and 4” elbow metal thickness found below nominal minus corrosion allowance. Calculations carried out to ensure sufficient metal exists for safe operation.
<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: No recommendations at this time. Summary: This vessel is in good overall condition, ultrasonic thickness inspection carried out – bottom head and 4 inch 90 deg elbow metal thickness found below nominal minus corrosion allowance. Calculations performed to ensure sufficient metal exists for safe operation. Vessel is fit for service.</p>					



Overview



Data Plate