

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

Job # 105.00157

District: Grand Prairie				Skid No. Nil		
Facility: Saddle Hills Gas Plant				Location (LSD): 10-11-75-07 W6M		
Vessel Name Equipment Number: Cansweet Tower						
Orientation: Vertical						
Status: In service				Regulatory Inspection		
PRESSURE VESSEL NAMEPLATE DATA						
"A" or "G" or "S" (Sask.) or BC Registration Number. C# 38593				CRN Number: K2684.1		
Vessel serial number: 01168-501				Size: 56" x 32'		
Shell thickness: 57.15				Shell material: SA 516 70 N		
Head thickness: 53.98mm				Head material: SA 516 70 N		
Tube wall thickness:				Tube material:		
Tube diameter:				Tube length:		
Channel thickness:				Channel material:		
Design pressure	Shell: 11997 kPa			Operating pressure	Shell: kPa	
	Tubes:				Tubes:	
Design Temp.	Shell: 93.3°C			Operating temperature	Shell: °C	
	Tubes:				Tubes:	
X-ray: Nil				Heat treatment: HT		
Code parameters: ASME VIII, Div 1				Coated: Nil		
Manufacturer: Propak Systems Ltd.				Year built: 2002		
Corrosion allowance: Nil				Manway: 3 Manways		
PRESSURE SAFETY VALVE NAMEPLATE DATA						
PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
22340G	Mercer	81- 53H11P88C1	A85417	9653	*Unknown *	09/2005
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
OG2606.5C	Unified Valve	No	Outlet Line	2"600 x 3"150	UV NB	
SERVICE CONDITIONS-INDICATE ALL THAT APPLY						
Sweet X	Sour	Oil		Gas X	Water	
Amine	LPG	Condensate		Air	Glycol	
Other (Describe): CANSWEET 800 SX						

Inspection Interval _____ **PSV Service Interval** _____

(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL 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	No insulation present.
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 condition. No exposed metal or corrosion present.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaks present.
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				Skirt is firmly bolted to supports. Paint is in good condition no significant corrosion present. No leakage present at attachment welds to vessel. Attachment welds are acceptable. Supports are grounded.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Skirt is bolted to I beam & pilling supports. No deformation or cracking present.
Concrete foundation Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general condition, ensure support is secure to vessel, describe any hazards.	X				Platform and ladders are in good condition no loose or missing rungs.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				Nozzle paint is in good condition no leaks present. No stud threads present. No damage or deflection present. No gussets present.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.				X	No Gauges Present.
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 and in place. No loose clamps or supports. No evidence of structural overload or deflection. Paint is in good condition no significant corrosion present.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Valves are properly supported, no leaks present.
PSV Ensure PSV is set at pressure at or below that of vessel. Discharge piping is same size as inlet to valve and is properly supported and routed. Ensure no block valves between PSV and vessel or if there are they are locked open.	X				PSV is set below MAWP of vessel. PSV Discharge piping is larger than inlet piping and is properly supported and routed. No block valves present. PSV Seal is intact Location: Outlet piping
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.
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: Vessel is in overall good condition, visual external inspection and ultrasonic corrosion survey performed - no metal thickness detected below nominal minus corrosion allowance. Vessel is fit for service.					

Photo Table for C38593



Data Plate



Overview



Overview



PSV Tag