

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

Job # 105.00642

District: Grand Prairie	Skid No. Nil
Facility: Clear Hills Gas Plant	Location (LSD): 16-11-88-13 W6M
Vessel Name Equipment Number: Stabilizer Feed Heater	
Orientation: Horizontal	
Status: In service	Regulatory Inspection

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. A3129762		CRN Number: N-0113.2	
Vessel serial number: 95C-3278-3004		Size: 52" x 15'	
Shell thickness: Nil		Shell material: Nil	
Head thickness: Nil		Head material: Nil	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 2069 kPa	Operating pressure	Shell: kPa
	Tubes:		Tubes:
Design Temp.	Shell: 316°C	Operating temperature	Shell: 210°C
	Tubes:		Tubes:
X-ray: Nil		Heat treatment: Nil	
Code parameters: ASME VIII, Div 1		Coated: Nil	
Manufacturer: Maloney Steel		Year built: 1995	
Corrosion allowance: 3.2mm		Manway: Yes	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
2818F	Farris	26FA12-120	CE-42783-1-A10	2069	2009	03/05
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
OG2369.5C	Unified Valve	No	Lower Shell	1" 300 x 2" 150	UV NB	

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet	Sour X	Oil	Gas X	Water
Amine	LPG	Condensate X	Air	Glycol X

Other (Describe):

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				Outside portion is insulated, no rips or tears present. Cladding is in good condition. Staining present on cladding.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)				X	Hidden from view
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				Saddle is firmly bolted to skid, paint is in good condition, no buckling or dents present. No leakage present at attachment welds to vessel. Attachment welds are acceptable. Skid is grounded.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Saddle is bolted to skid floor and support structure, 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	
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. One Gusset present on piping off boot.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	X				Temperature Gauge is (50-550°C) Suitable for range. Gauge is clear and visible.
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 present. No evidence of structural 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				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 at 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: Stabilizer Tower.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic corrosion survey carried out - no metal loss or corrosion detected.
<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)</p> <p>Recommendations: 1) Service PSV</p> <p>Summary: Vessel is in overall good condition, visual external inspection and ultrasonic corrosion survey performed - no metal loss or corrosion detected.</p> <p>Vessel is fit for service.</p>					

Photo Table for A3129762



Data Plate



Overview



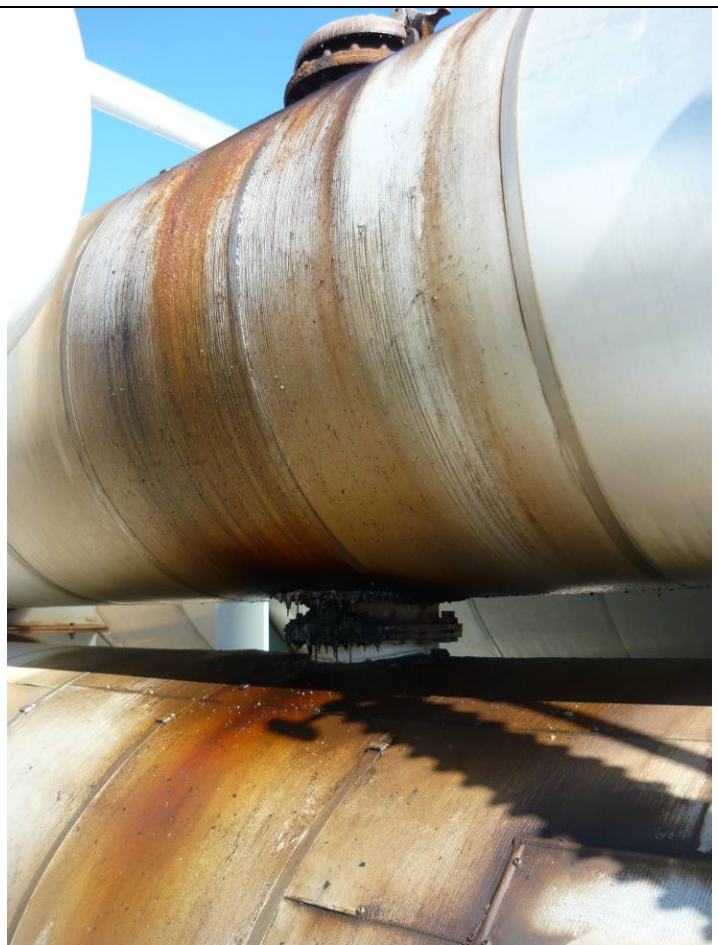
Temperature Gauge



Saddle



Overview



Overview