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

PRESSURE VESSEL NAMEPLATE DATA

"A" or "G" or "S" (Sask.) or BC Registration Number. **A443773**		CRN Number: **L-4302.2**	
Vessel serial number: 98C- 60761		Size: 30" x 28'	
Shell thickness: 38.1mm		Shell material: SA 516 70 N	
Head thickness: 37.5mm		Head material: SA 516 70 N	
Tube wall thickness:		Tube material:	
Tube diameter:		Tube length:	
Channel thickness:		Channel material:	
Design pressure	Shell: 10204 kPa	Operating pressure	Shell: 0 kPa
	Tubes:		Tubes:
Design Temp.	Shell: 38ºC	Operating temperature	Shell: 7ºC
	Tubes:		Tubes:
X-ray: RT -1		Heat treatment: HT	
Code parameters: ASME VIII, Div 1		Coated: Nil	
Manufacturer: Alco Gas & Oil		Year built: 1999	
Corrosion allowance: 3.2mm		Manway: No	

PRESSURE SAFETY VALVE NAMEPLATE DATA

PSV Tag #	Manufacture	Model #	Serial #	Set Pressure (kPa)	Capacity (scfm)	Service Date
1686F	**Farris**	**266A13-120/SP**	**CE-44982-A10**	**10066**	**14220**	**08/2005**
CRN #	Service By	Block Valve	Location	Size	Code Stamp	
OG2369.5C	**Unified Valve**	**No**	**Lower Shell**	**1.5"600 x 2.5"150**	**UV NB**	

SERVICE CONDITIONS-INDICATE ALL THAT APPLY

Sweet X	Sour	Oil	Gas X	Water
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 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

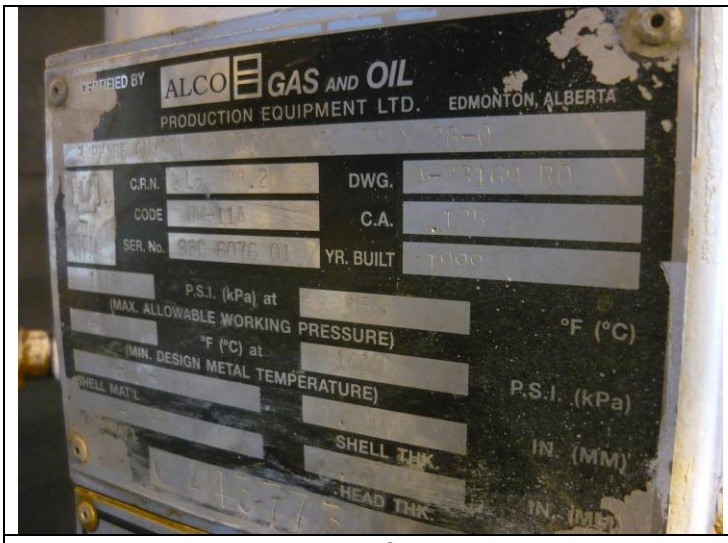
A443773

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 skid no buckling or dents present. Paint is in good condition no significant corrosion 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**				Skirt is bolted to skid floor. 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. No gussets present.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	**X**				Pressure gauge (0-10300 kPa) Suitable for MAWP of Vessel Temperature gauge (-5-50 ºC) Suitable for allowable range. Gauges are 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. 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: Lower Shell
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.

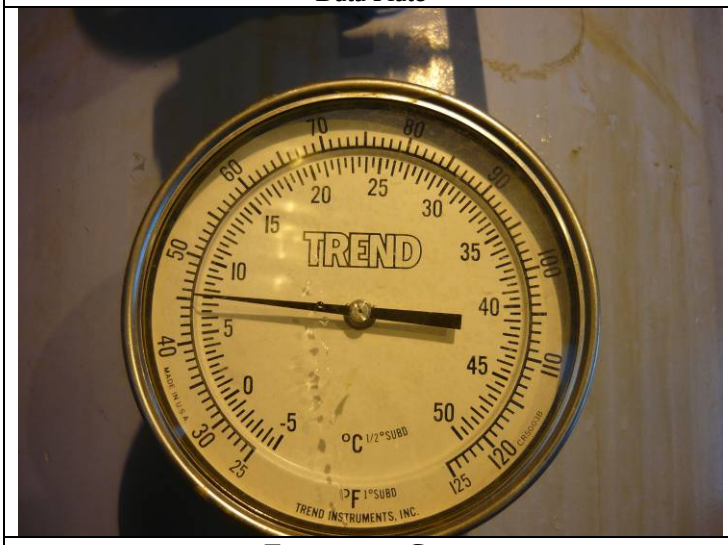
Inspected By: Dellas Weidman **Date:** May 21th 2010

Photo Table for A443773



Data Plate

Rerated Data Plate

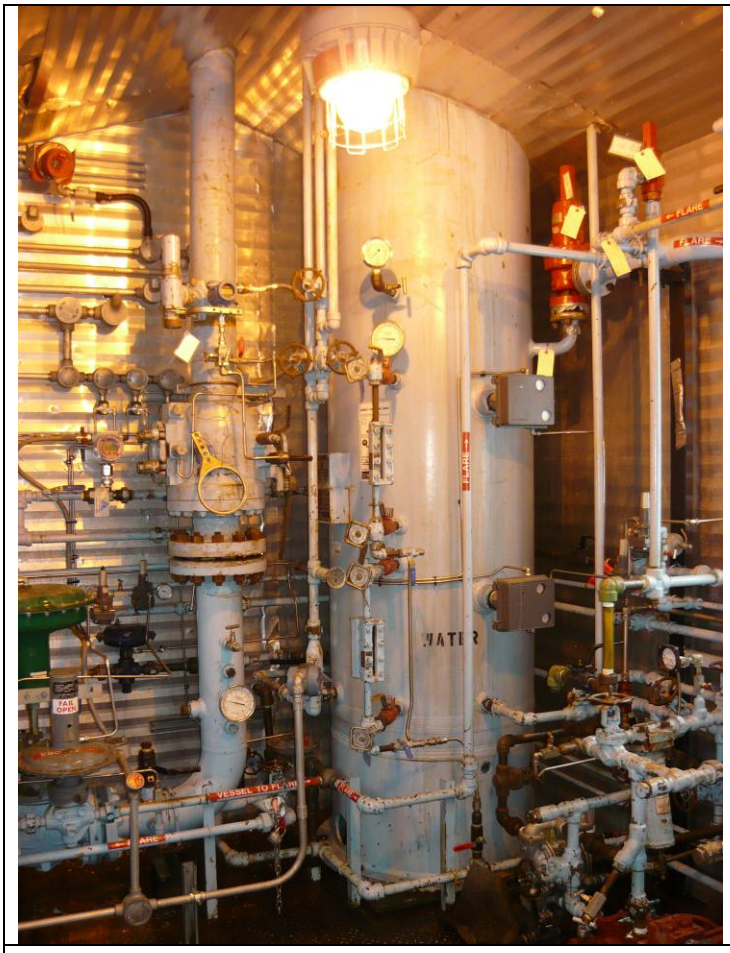


Temperature Gauge

Pressure Gauge

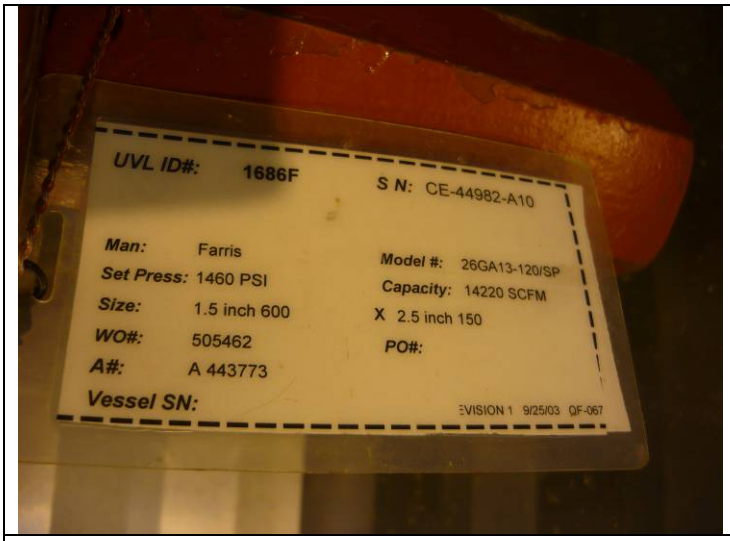
Above Roof

Roof Seal

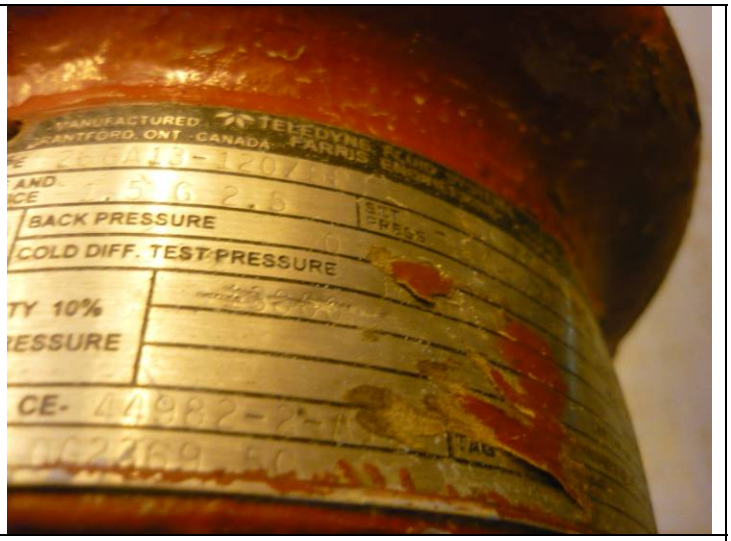


Overview

Overview



PSV Tag



PSV data plate