Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION	
District: Fort Saint John, B.C.	**Skid No.**
Facility: Clear Hills Compressor Station	**Location (LSD): 01-14-87-13 W6M**
Vessel Name & Equipment Number: Glycol Contactor	
Orientation: Vertical	
Status: Operating	**Regulatory Inspection**

PRESSURE VESSEL NAMEPLATE DATA			
"A" or "G" or "S" (Sask.) or BC Registration Number **A 2944410**		CRN Number **H 5227.1**	
Vessel serial number: **930-5055-01**		Size (diameter x length- estimate if necessary): **24 in. x 40 ft**	
Shell thickness: **28.6 mm**		Shell material: **SA 516-70N**	
Head thickness: **27.7 mm**		Head material: **SA 516-70N**	
Coil 1 thickness:		Coil 1 material:	
Coil 2 thickness:		Coil 2 material:	
Channel thickness:		Channel material:	
Design pressure	Shell: **1440 psi**	Operating pressure	Shell: **820 psi**
	Tubes:		Tubes:
Design Temp.	Shell: **125 deg F**	Operating temperature	Shell: **58 deg F.**
	Tubes:		Tubes:
X-ray: **100%**		Heat treatment: **HT**	
Code parameters: **ASME VIII, Div I**		Joint efficiency (if on nameplate):	
Manufacturer: **Alco Gas and Oil**		Year built: **1994**	
Corrosion allowance: **Not Stated**		Manway? **No**	

PRESSURE SAFETY VALVE NAMEPLATE DATA

Tag Number(s)	Set Pressure	CRN #	Manufacturer /Model /Serial # and Code Stamp	Capacity (Scfm)	Size	Set Date
Lower Shell **1346F**	**1440 psi**	**n/s**	**Farris / 26EA13-12015615**	**5650**	**1 x 2**	**3/05 Unified**
Inlet piping **1345F**	**1440 psi**	**0G0269.5C**	**Farris / 26DA13-120 / CE-407214-2-A10 / UV**	**3770**	**1 x 2**	**3/05 Unified**

SERVICE CONDTIONS-INDICATE ALL THAT APPLY

Sweet	Sour **X**	Oil	Gas **X**	Water **X**
Amine	LPG	Condensate	Air	Glycol
Other (Describe):				

Inspection Interval _____ **PSV Service Interval** _____

(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program)

eports 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 Item: A#2944410	G	F	P	N/A	Comments
Insulation Verify sealed around manways, nozzles, no damage present, and there is no gress of moisture.			X		Roof to Vessel seal has failed
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 minor chipping to less then 5% of surface area.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leakage.
Skirt/ Saddle 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				Grounded at Skid No distortion - bolted securely to floor.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Firmly bolted to skid deck.
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				No paint failure and no deflection. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	X				Gauges are suitable for operational range 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			Minor paint chipping to less then 10% of piping surface
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				No weeping or leaking valves or fittings.
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			2 PSV's on this vessel, 1 on inlet piping and 1 on lower shell – both PSV's set at MAWP
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic thickness inspection carried out – 2 inch 90 degree elbow metal thickness detected below nominal. Calculations carried out to ensure sufficient metal exists for safe operation.

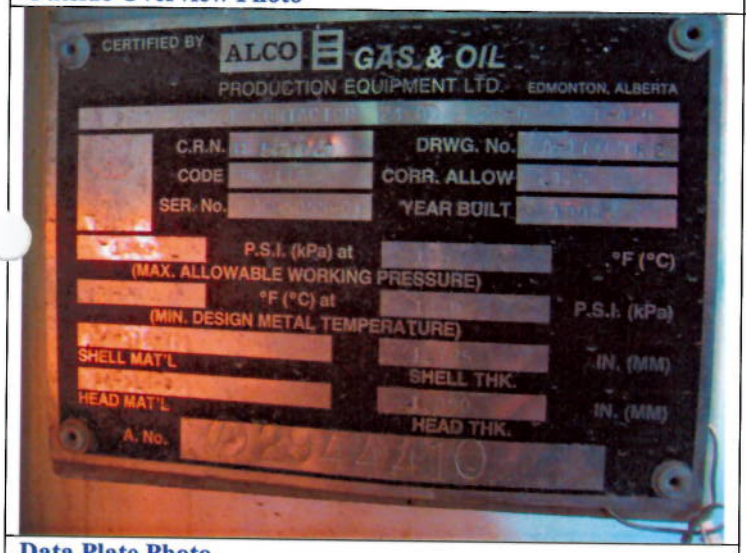
Recommendations or corrective actions : Vessel is Fit for Service or describe corrective actions required)
(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)
Recommendation: Recaulk roof to shell seal.
Summary: This vessel is in good over all condition, Ultrasonic thickness inspection carried out – 2 inch 90 degree elbow metal thickness detected below nominal. Calculations carried out to ensure sufficient metal exists for safe operation.
Vessel is fit for service.

Inspected By: Dellas Wiedman

Date: Sept 8 – 2005

Outside Overview Photo

Inside Overview photo



Data Plate Photo

Inspected By: Dellas Wiedman

Date: Sept 8 – 2005