Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job 10.114114													
District: Fort St.	John	Skid No.											
	n Compressor - Ladyfern	Location (LSD): 10-19-94-12W6M											
Vessel Name Equipment Number: Fuel Gas Line Heater													
Orientation: Horizontal													
Status: In S	ervice		Regulatory Inspection										
PRESSURE VESSEL NAMEPLATE DATA													
"A" or "G	CRN Number: P 3215 .21												
Vessel serial num		Size: 36 in x 12 ft.											
Shell thickness: 9	9.5 mm	Shell material: SA 36											
Head thickness:	9.5 mm	Head material: SA 36											
Tube wall thickne	Tube material:												
Tube diameter:	Tube length:												
Channel thicknes				Channel material:									
Design pressure	•	Shell: Atmospheric					Shell:						
	Tubes: 5625 / 2025]				Tubes:								
Design Temp.	Shell: 200° F				Operating temperature		Shell:						
	Tubes:	Tubes:											
X-ray: RT-1		Heat treatment: HT											
Code parameters:	Coated: N/S												
Manufacturer: V	Year built: 2001												
Corrosion allowa	Manway: No												
	PRE	SSURE SAFETY	VALV	E NA	MEPLATE DA	ATA							
PSV Tag #	Manufacture / Model / Serial	Set Pressure (PSI / kPa)	Capacity (scfm)		Size	Block Valve		Location	Service by / Date				
	SERVIC	CE CONDITION	S-INDI	CAT	E ALL THAT	APPL	Y		<u> </u>				
Sweet X	Sour C						Gas X		Water X				
Amine	LPG Con				densate		Air		Glycol X				
Other (Describe):													
Inspection Interval													

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

External Inspection Items					Comments		
1	G	F	P	N/A			
Insulation Verify sealed around manways,					Vessel not insulated		
nozzles, no damage present, and there is no				X	vesser not insulated		
egress of moisture.				A			
External Condition Assess paint condition,					Paint in good condition – no corrosion or exposed metal –		
areas peeling, record any corrosion, damage,					no damage		
etc (record location, size and depth of	X						
corrosion or damage)							
Leakage Record any leakage at flanges,					No leaks detected		
threaded joints, weep holes on repads, etc.	X						
Saddle Assess condition of paint, fire					Paint in good condition – no corrosion, buckling or dents –		
protection, and concrete. Look for corrosion,					attachment welds are acceptable with no sign of leaks – no		
buckling, dents, etc. Look at vessel surface	X				ground wire attached to skid		
area near supports. Verify no signs of leakage	Λ						
at attachment to vessel and attachment welds							
are acceptable. Ground wire attached?							
Anchor Bolts Hammer tap to ensure secure.					Vessel is set directly on ground		
Look for cracking in treads or signs of				X			
deformation.							
Concrete foundation Check for cracks,				X	None		
spalling, etc.				Λ			
Ladder / Platform Describe general					None		
condition, ensure support is secure to vessel,				X			
and describe any hazards.							
Nozzle Assess paint, look for leakage, and					Paint in good condition – no leaks – stud threads fully		
ensure stud threads are fully engaged. Record	X				engaged – no damage or deflection – no gussets		
any damage, deflection, etc. Are nozzles	21						
gusseted?							
Gauges Ensure gauges are visible, working,					Temperature gauge clear and functional – no leaks – not		
no leakage, and suitable for range of MAWP/	X				suitable for MAWP: 50 – 550 PSI		
Temp.							
External Piping Ensure pipe is well					Piping is well supported – all clamps in place – no evidence		
supported. All clamps, supports, shoes, etc. in					of structural overload or deflection – paint in good		
place. Look for evidence of structural	X				condition – no corrosion		
overload, deflection, etc. Paint condition,							
external corrosion?							
Valving Ensure no leaks are visible. Valves					No leaks detected – valves are properly supported		
are properly supported and chained if	X						
necessary.					DCV is not at maged MANVD. Discharge with the in-		
PSV Ensure PSV is set at pressure at or below					PSV is set at vessel MAWP - Discharge piping is same size		
that of vessel. Discharge piping is same size as					as valve outlet and is properly supported and routed – seal		
valve outlet and is properly supported and	X				is intact – no block valve		
routed. Are PSV seals in place? Ensure no block valves between PSV and vessel, or if							
there are, that they are locked/sealed open.							
NDE methods Was UT/ MPI done on vessel					Ultrasonic corrosion survey carried out, no metal thickness		
(MI coordinator to review results)	X				detected below nominal minus corrosion allowance.		
(1411 COORDINATOR TO TOVIEW TESUITS)	l			l	ucteeted below nominal minus cultusion anowance.		

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:

 $Summary: This \ vessel\ is\ in\ good\ condition,\ visual\ external\ and\ ultrasonic\ thickness\ inspection\ carried\ out-no\ metal\ thickness\ detected\ below\ nominal\ minus\ corrosion\ allowance.$

Vessel is fit for service.

Inspected By: Andrew Neis Date: January 22, 2014







Data Plate

