Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job 10.114481										
District: Grande	e Prairie, AB	Skid No.								
	Creek South West Field	Location (LSD): 01-19-63-01 W6M								
-	uipment Number: Line Heat	ter			(=2 =): =		<u> </u>	·-		
Orientation: Ho										
Status: Not	t in service	PRESSURE VES	SFL N		nventory Inspe					
"A" or "G	CRN Number: L 3768.2 // L 3769.2									
Vessel serial nun	nber: C-013	Size: 44 in x 155 in								
Shell thickness:		Shell material:								
Head thickness:		Head material:								
Tube wall thickn	Tube material: SA 106 B									
Tube diameter: Channel thickness	Tube length: Channel material:									
Channel uncknes	Shell: 20684 kPa (3	Operating pressure								
Design pressure	9608 kPa (Shell:					
	Tubes:	Tubes:					Tubes:			
Design Temp.	Shell: 93°C	Operating temperature			Shell:					
Design Temp.	Tubes:				Tubes:					
X-ray: RT-1	Heat treatment: Nil									
Code parameters	Coated: No									
Manufacturer: I	Year built: 1999									
Corrosion allowa		Manway: No								
	PRE	SSURE SAFETY	VALV	E NA	MEPLATE D	ATA				
		Set Pressure (PSI / kPa)	Capacity (scfm)		Size	Block Valve		Location	Service by / Date	
	SERVIC	E CONDITION	S-INDI	CAT	E ALL THAT	APPL	Y			
Sweet X	Sour	Sour			Dil			Gas X		
Amine	LPG Con			densate X		Air		Glycol		
Other (Describe)	:									
Reports reviewed an	C in conjunction with Chief Inspecto	or following guideline	es of Cana	dian Na		mited's (Inspection Progra		
.vicenamear III	-51117 Cool aniator					L				

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
External inspection rems	G	F	P	N/A	Comments
Insulation Verify sealed around manways,					
nozzles, no damage present, and there is no					
egress of moisture.					
External Condition Assess paint condition,					
areas peeling, record any corrosion, damage,					
etc (record location, size and depth of					
corrosion or damage)					
Leakage Record any leakage at flanges,					
threaded joints, weep holes on repads, etc.					
Saddle/skirt Assess condition of paint, fire					
protection, and 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?					
Anchor Bolts Hammer tap to ensure secure.				· · · · ·	
Look for cracking in treads or signs of					
deformation.					
Concrete foundation Check for cracks,					
spalling, etc.					
Ladder / Platform Describe general					
condition, ensure support is secure to vessel,					
and describe any hazards.					
Nozzle Assess paint, look for leakage, and					
ensure stud threads are fully engaged. Record					
any damage, deflection, etc. Are nozzles					
gusseted?					
Gauges Ensure gauges are visible, working,					
no leakage, and suitable for range of MAWP/					
Temp.					
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?					
Valving Ensure no leaks are visible. Valves					
are properly supported and chained if					
necessary.					
PSV Ensure PSV is set at pressure at or below					
that of vessel. Discharge piping is same size as					
valve outlet and is properly supported and					
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					No NDE – Vessel is removed from service.
(MI coordinator to review results)	X				1 0 1 1 2 1 0 1 0 1 0 1 0 1 1 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 1 1 0 0 1 1 0 0 0 1 0 0 0 0 1 0
Other					
Decommondations on convective actions: (Vo		~ T2		G• -	

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)

Date: August 18, 2014

Recommendations: Carry out a pre-commissioning inspection prior to putting vessel back in service.

Summary: Inventory inspection only. Line heater is removed from service.

Inspected By: Chris Maxsom ABSA# 0539

