Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job # 05.00										
District: Grande P	rairie AB.	Skid No.								
Facility: Karr Cree		Location (LSD): 02-34-63-02W6M								
		Haatan								
	oment Number: Line	neater								
Orientation: Horiz				Regulatory I						
Status: In Ser										
"A" "O"	- "C" (C-1) DC D	PRESSURE VESS	SEL N.	AMEPLATE DA			-1			
A or G o	r "S" (Sask.) or BC R	egistration Number.		CRN Number:						
	D3825.21									
Vessel serial number	Size: 60 in. X 24 ft.									
Shell thickness: 6.4r	Shell material:									
Head thickness: 9.5r	Head material:									
Tube wall thickness				Tube material:						
Tube diameter:				Tube length:						
Channel thickness:	1			Channel material:						
Shell: Design pressure				Operating press	sure	Shell:				
6 I 1	Tubes: 3600 PSL	/ 2300 PSI				Tubes:				
	Shell: 200 Deg F.									
Design Temp.	_			Operating temperature		Shell:				
	Tubes: 200 Deg	Tubes:								
X-ray: RT 1		Heat treatment: HT								
Code parameters: A	Coated: no									
Manufacturer: Alco	Year built: 2001									
Corrosion allowance	Manway: No									
	P	RESSURE SAFETY	VALV	E NAMEPLATI	E DATA					
PSV Tag # Manufacture		Model #		Serial # Set Pi		essure	Capacity	Service		
					(kPa)		(scfm)	Date		
							(501111)	2		
CDN #	Service Dec	Block Valve		Lessier	Size		Cada Starra			
CKN #	CRN # Service By Block Valve			Location Siz		ze	Code Stamp			
	SERV	VICE CONDITIONS	S-INDI	ICATE ALL TH	AT APPL	Y	И	<u>II</u>		
Sweet Sour X C			Oil		Gas X		Water			
Amine LPG Cor			Con	ndensate				Glycol		
Other (Describe):			-				Letter and the second sec			
Inspection Interval	1			PSV Service In	terval					
-	 conjunction with Chief Insp 	bector following guidelines	of CNR)				
	,	0.0			. 8					
Reports reviewed and ac Mechanical Integr					D	ate				

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

	G	F	Р	N/A	Comments		
Insulation Verify sealed around manways,	<u> </u>				No damage present- no egress of moisture- Sealed around		
nozzles, no damage present, and there is no	x				no damage present- no egress of moisture- Sealed around nozzles and saddles.		
egress of moisture.	Λ				nozzies and saddles.		
External Condition Assess paint condition,							
areas peeling, record any corrosion, damage,					Deint in good evenuell condition No eveneed motel		
etc (record location, size and depth of	Х				Paint in good overall condition – No exposed metal.		
· · ·							
corrosion or damage)							
Leakage Record any leakage at flanges,	Х				No leaks observed.		
threaded joints, weep holes on repads, etc.							
Saddle/Skirt Assess condition of paint, fire					Saddles: Bolted directly to skid frame.		
protection, concrete. Look for corrosion,					No buckling or dents.		
buckling, dents, etc. Look at vessel surface	x				No corrosion at attachment welds to vessel.		
area near supports. Verify no signs of leakage					Ground wire attached to skid.		
at attachment to vessel and attachment welds							
are acceptable. Ground wire attached?							
Anchor Bolts Hammer tap to ensure secure.					Anchor bolts are securely fastened.		
Look for cracking in treads or signs of	Х				No deformation.		
deformation.							
Concrete foundation Check for cracks,				v			
spalling, etc.				X			
Ladder / Platform Describe general							
condition, ensure support is secure to vessel,				Χ			
describe any hazards.							
Nozzle Assess paint, look for leakage, and					Stud threads are fully engaged to nuts- no short bolting.		
ensure stud threads are fully engaged. Record					No damage or deflections – no leaks.		
any damage, deflection, etc. Are nozzles	Х				Nozzles are not gusseted.		
gusseted?							
Gauges Ensure gauges are visible, working,							
no leakage, and suitable for range of MAWP/				X	Level gauge -Clear and clean- no leakage.		
•				Λ	Level gauge -Clear and clean- no leakage.		
Temp.							
External Piping Ensure pipe is well					Piping is well supported; no deflection, all clamps and		
supported. All clamps, supports, shoes, etc. in					supports are in place.		
place. Look for evidence of structural	Х				Piping insulated- no damage present- no egress of moisture		
overload, deflection, etc. Paint condition,							
external corrosion?							
Valve: Ensure no leaks are visible. Valves are	x						
properly supported and chained if necessary.	Λ				Valves are supported properly – no leaks.		
PSV Ensure PSV is set at pressure at or below				X	No PSV.		
that of vessel.				Λ			
NDE methods Was UT/ MPI done on vessel					Ultrasonic thickness survey carried out – no metal		
(MI coordinator to review results)					thickness detected below nominal minus corrosion		
· · · · · · · · · · · · · · · · · · ·	X				allowance.		
Other							

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: Gerry Avery

