Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job # 105.001609										
District: Fort St. Jo	Skid No.									
	Location (LSD): 01-21-87-15-W6M									
Vessel Name Equip	ment Number: Glycol	Contactor								
Orientation: Vertica	al			1						
Status: In Serv	vice		Regulatory Inspection							
		PRESSURE VES	SEL N	AMEPLATE DA	TA					
"A" or "G" o	CRN Number:									
	M 2316.21									
Vessel serial numbe	M 2316.21 Size: 24 in. x 32 ft.									
Shell thickness: 28	Shell material: SA 516-70N									
Head thickness: 27	Head material: SA 516-70N									
Tube wall thickness	Tube material:									
Tube diameter:				Tube length:						
Channel thickness:	Channel material:									
Design pressure	Operating pressure		Shell:	0- 1500 PSI						
8	Tubes:			Tubes	:					
					Shell:	0 – 250 Deg F	7			
Design Temp.	Tubes:	Operating temperature								
V DT 1	Tubes:									
X-ray: RT 1	Heat treatment: Yes									
Code parameters: A	Coated: no									
Manufacturer: Hand	Year built: 1996									
Corrosion allowanc	Manway: no									
	PI	RESSURE SAFETY	VALV	E NAMEPLATE	E DATA		Ē			
PSV Tag #	Manufacture	Model #		Serial #	Set Pre	essure	Capacity	Service		
					(kP	a)	(scfm)	Date		
15935FV	Consolidated	1912FC-1-1-1- 1-1		89C1578	1100 PSI		7146	04/10		
CRN #	Service By	Block Valve	Location		Size		Code Stamp			
01832.52	Unified Valve	no	Lower shell		1.5"x 2"		UV/NB			
	SERV	/ICE CONDITIONS	<u></u> S-INDI	CATE ALL THA	AT APPL	Y		<u>I</u>		
			Oil			Gas X		Water		
Amine LPG			Con	Condensate			Air Glycol X			
Other (Describe):										
Inspection Interva	l			PSV Service Int	erval					
	conjunction with Chief Insp	pector following guidelines	s of CNR	-		n)				
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

External Inspection Items	G	F	Р	N/A	Comments
	Ľ				
Insulation Verify sealed around manways,				V	
nozzles, no damage present, and there is no				X	Vessel not insulated
egress of moisture.					Deint in good anough condition. No annough motol
<b>External Condition</b> Assess paint condition, areas peeling, record any corrosion, damage,					Paint in good overall condition – No exposed metal
etc (record location, size and depth of	Χ				
corrosion or damage)					
Leakage Record any leakage at flanges,					No leaks observed
threaded joints, weep holes on repads, etc.	X				To reaks observed
Saddle/Skirt Assess condition of paint, fire					Skirt: bolted directly to skid floor.
protection, concrete. Look for corrosion,					No buckling or dents.
buckling, dents, etc. Look at vessel surface					No corrosion at attachment welds to vessel.
area near supports. Verify no signs of leakage	Χ				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	X				No deformation
deformation.					
Concrete foundation Check for cracks,				X	
spalling, etc.				Λ	
Ladder / Platform Describe general					
condition, ensure support is secure to vessel,				X	
describe any hazards.					
Nozzle Assess paint, look for leakage, and					Stud threads are fully engaged
ensure stud threads are fully engaged. Record	X				No leaks observed.
any damage, deflection, etc. Are nozzles	1				No damage or deflections.
gusseted?					Nozzles are not gusseted
Gauges Ensure gauges are visible, working,					Clear and clean – no leakage
no leakage, and suitable for range of MAWP/	X				Suitable for range of MAWP/Temperature
Temp.					Pressure gauge 0 – 1500 PSI
					Temperature gauge 0 – 250 Deg F
External Piping Ensure pipe is well					Piping is well supported – all clamps and supports are in
supported. All clamps, supports, shoes, etc. in	v				place.
place. Look for evidence of structural	X				No structural overloads or deflections.
overload, deflection, etc. Paint condition,					Paint in good condition
external corrosion? Valving Ensure no leaks are visible. Valves	-				No leaks are visible
are properly supported and chained if	X				Valves are supported properly
necessary.					varios are supported property
<b>PSV</b> Ensure PSV is set at pressure at or below					Location: lower shell of vessel set below MAWP of vessel.
that of vessel.	X				Discharge piping is larger than valve outlet.
inut 01 (0550).					PSV is not registered for us in British Columbia.
NDE methods Was UT/ MPI done on vessel					Ultrasonic thickness survey carried out – no metal
(MI coordinator to review results)	X				thickness detected below nominal.
``````````````````````````````````````	المعدما	l ie l	Fit f	for Se	rvice or describe corrective actions required)
					f Inspector where necessary, and get remedial action
implemented)	, u	nscu	33 W		i inspector where necessary, and get reincular action
	ister	ed fo	r use	in Onte	ario and Alberta, confirm suitability for service in British
Columbia.	,	-u 10	1 450		and and a moortal, communication of solvice in Difficin

Summary: Vessel is in overall good condition, visual inspection and ultrasonic corrosion survey performed—no metal thickness detected below nominal. No corrosion rate to assess. Vessel is fit for service.

Photo Table



Vessel overview



