			dian Natural PRESSURE	医大龙属 化邻甲基酚 医克克氏 化二氯甲基酚	s Limited NFORMATION		Job # 05.001539		
District: Ft St	John B.C.								
Facility: Halfway Battery					Location (LSD): 05 – 12 – 87 – 25 – W6M				
		ber: Low Pressu	re Flare Kno	ck Out Dr	um				
Orientation: H									
	perating			Regula	Regulatory Inspection				
Status. O	peraung	PRESSU	RE VESSEI		LATE DATA				
"A" or "G" or "	S" (Sack ) or BC R			CRNN			***************************************		
"A" or "G" or "S" (Sask.) or BC Registration Number. C					Non Code				
Vessel serial nu	mber: 3856 – A			Size: 60 in. x 20 ft.					
Shell thickness:				Shell material: SA 36					
Head thickness:				Head material: SA 36					
Tube wall thickness:					Tube material:				
Tube diameter:				Tube length:					
Channel thickne	ess:	MINE OF THE PROPERTY OF THE PR	1.1.11111111	Channel material:					
Design pressure	Shell: Atm	os.		Operating pressure		Sheli:			
	Tubes:					Tubes:			
Design Temp.	Shell:	<u></u>		Operati	ting temperature	Shell:			
	Tubes:					Tubes:			
X-ray: Nil	·			Heat treatment: Nil					
Code parameter	s: Non Code			Coated					
Manufacturer: /	ARGO Sales			Year built: 2006					
Corrosion allow	ance: 1.6 mm			Manwa	y: Yes				
		PRESSURE S	SAFETY VA	LVE NAN	IEPLATE DATA				
Tag No	Manufacture Model Serie		Serial #		Set Press	Capacity	Size		
Serv By	Date Code Stamp B		Block Va	lve	Location	CRN#			
25/400 minutes (1991)		SERVICE CON	 DTIONS-IN	DICATE	ALL THAT API	PLY			
Sweet X	Sweet X Sour					Gas X	Water X		
Amine LPG				Condensate X		Air	Glycol		
Other (Describe	e):								
Reports reviewed and	in conjunction with Cl accepted by:	nief Inspector following		CNRL's Own	er-User Inspection Pro				
Mechanical Inte	grity Coordinato					Date	,,,,,		
Page 1	of 2	NRL: Halfway B	attery	L.P. Flare Knock Out C					

External Inspection Items	G	F	P	N/A	Comments
Insulation: Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.	х				Good condition, no open or torn sections.
External Condition: Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)				X	
Leakage: Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X			11 110301	No leaks detected.
Saddles: 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	х				No buckling or distortion to saddles.  No obvious leaks at saddle to shell welds – no stains.
are acceptable. Ground wire attached?					Skid package is grounded.
Anchor Bolts: Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Firmly welded to supports.
Concrete foundation: Check for cracks,					
spalling, etc.  Ladder / Platform: Describe general				X	
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?	Х				No seeping detected. No short studs. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.				X	No gauges.
External Piping Ensure pipe is well supported.	х				Firmly supported - no deflection - no corrosion.
Valving: Ensure no leaks are visible. Valves are properly supported and chained if necessary.	х				Well supported – no leaking detected.
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	Atmospheric – discharges to flare.
NDE methods: Was UT/ MPI done on vessel (MI coordinator to review results)		Х			Ultrasonic thickness inspection carried out to determine remaining thickness of metal – no metal thickness detected below nominal minus corrosion allowance – no pitting.

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 – vessel replaced other Low Pressure Flare Knock (Severe Corrosion) out in 2006. Summary: This vessel is in very 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: D. Wiedman

Mar 12 - 2008

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