Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job # 05.00												
District: Grande P	rairie AB.	Skid No.										
Facility: Karr Cree	ek Gas Field	Location (LSD): 02-34-63-02W6M										
Facility: Karr Creek Gas Field Location (LSD): 02-34-63-02W6M Vessel Name Equipment Number: Inlet Separator												
Orientation: Vertical												
Status: In Service Regulatory Inspection PRESSURE VESSEL NAMEPLATE DATA												
"A" or "G" o	r "S" (Sask.) or BC R		CRN Number:									
71 01 0 0	1 5 (Susk.) of BC K	CAN Number.										
	A0465726	P4996.213										
Vessel serial number		Size: 36in. X 10 ft.										
Shell thickness: 22.2		Shell material: SA 516-70N										
Head thickness: 20.3		Head material: SA 516-70N										
Tube wall thickness:		Tube material:										
Tube diameter:		Tube length:										
Channel thickness:	Channel thickness:					Channel material:						
Design pressure	Shell: 720 PSI	Operating pressure		Shell:	0-1000 PSI							
	Tubes:			Tubes:								
Design Temp.	Shell: 126Deg F.			Operating temperature		Shell: -40 – 120 Deg F						
	Tubes:	Shell40 - 120 Deg 1										
	Tuocs.					Tubes:						
X-ray: RT 1		Heat treatment: HT										
Code parameters: A		Coated: no										
Manufacturer: Alco		Year built: 2001										
Corrosion allowance	e: 3.2mm	Manway: No										
	Pl	RESSURE SAFETY	VALV	E NAMEPLATE	DATA							
PSV Tag #	Manufacture Model #		Serial #		Set Pressure		Capacity	Service				
					(kPa)		(scfm)	Date				
21369G	Farris	26НА12-120		SE14783-2	720 PSI		11076	02/06				
CRN#	Service By	Block Valve		Location	Size		Code Stamp					
Not stated	Unified valve	No	O	outlet piping	2"x 3"		UV/NB					
	SERV	VICE CONDITIONS	S-INDI	ICATE ALL THA	AT APPL	Y		<u> </u>				
G .												
Sweet	Sour X Oil					Gas X		Water				
Amine	LPG	densate Air		Air	Glycol							
Other (Describe):												
Inspection IntervalPSV Service Interval												
_	conjunction with Chief Insp	ector following guidelines	of CNR)						
	,	0.0		<u></u>	- 6							
Reports reviewed and ac Mechanical Integr					Th.	late						
wiechameai integr	ity Coordinator				D	ate						

External Inspection Items		Б	ъ	NT/A	Comments
	G	F	P	N/A	
Insulation Verify sealed around manways, nozzles, no damage present, and there is no egress of moisture.				X	Vessel not insulated.
External Condition Assess paint condition, areas peeling, record any corrosion, damage, etc (record location, size and depth of corrosion or damage)	X				Paint in good overall condition – No exposed metal.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No leaks observed.
Saddle/Skirt 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 are acceptable. Ground wire attached?	X				Skirt: Bolted directly to skid floor. No buckling or dents. No corrosion at attachment welds to vessel. Ground wire attached to skid.
Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Anchor bolts are securely fastened. No deformation.
Concrete foundation Check for cracks, spalling, etc.				X	
Ladder / Platform Describe general 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?	X				Stud threads are fully engaged to nuts- no short bolting. No damage or deflections – no leaks. Nozzles are not gusseted.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/Temp.	X				Clear and clean- no leakage. Suitable for operational range of vessel. Pressure gauge 0 – 1000 PSI/Temperature gauge -40 – 120 DegF.
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?	X				Piping is well supported; no deflection, all clamps and supports are in place. Piping insulated- no damage present- no egress of moisture.
Valve: Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Valves are supported properly – no leaks.
PSV Ensure PSV is set at pressure at or below that of vessel.	X				Located on outlet piping from vessel. – PSV seal in place. Set at MAWP of vessel. Discharge piping is same size as valve outlet. No block valve between vessel and PSV.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic thickness survey carried out – no metal thickness detected below nominal minus corrosion 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.

Date: April 23, 2010

Vessel is fit for service.

Inspected By: Gerry Avery

Photo Table

Vessel SN:

PSV data tag



Vessel PSV

