Canadian Natural R	esources Limited		ESSEI	- GENERAL INSPECTI	ON FORM	Job	# 105.01033		
District: Grande P	rairie		Skid No.						
Facility: Clear Hills Gas Plant				Location (LSD): 16-11-88-13 W6M					
		: Stabilizer Feed He	ater						
Orientation: Horiz									
Status: In Ser	vice			Regulatory Inspection					
		PRESSURE VE	ESSEL	NAMEPLATE DATA					
"A" or "G" or "S" (	Sask.) or BC Regis	stration Number.		CRN Number N-0113.2					
	A 3129762	-		1					
Vessel serial numbe	er: 95-C3278-3004	1		Size: 52.0 inch dia. X 15.	0 feet length				
Shell thickness: Nil Head thickness: Nil				Shell material: Nil Head material: Nil					
Tube wall thickness		//#2 Coil 5.1 mm		Tube material: <b>SA 106B</b>					
Tube diameter: #1				Tube length:					
Channel thickness:		#2  COII = 1.5  InCII		Channel material:					
MAWP	Shell:			Operating pressure	Shell:				
	Tubes: 2068 K	Pa			Tubes:				
Design Temp.	Shell:			Operating temperature	Shell:				
	Tubes: 316 C				Tubes:				
X-ray: #1 Coil – RT	-1 // #2 Coil – RT	-3		Heat treatment: Yes					
Code parameters: A	SME VIII Div 1			Joint efficiency (if on nameplate):					
Manufacturer: Male			Year built: 1995						
Corrosion allowance	e: 3.2 mm			Manway: Yes					
		PRESSURE SAFET	Y VAI	LVE NAMEPLATE DATA	L				
Tag Number(s)	Set Pressure PSI	CRN #		ufacturer /Model / Serial# Code Stamp	Capacity (Scfm)	Size	Set Date		
Out for Service									
	SE	RVICE CONDTIO	NS-INI	DICATE ALL THAT APP	LY				
Sweet	Sour X		Oil		Gas X		Water X		
Amine	LPG			densate X	Air		Glycol X		
Other (Describe):									
nspection Interval				PSV Service Interval					

\_Date\_\_\_\_\_

(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRLs Canada Owner-User Inspection Program) Reports reviewed and accepted by:

## Mechanical Integrity Coordinator\_\_\_\_\_

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.

### **Canadian Natural Resources Limited**

secure and any bolts are suitable for future use. No signs of erosion or corrosion. No obstructions. No signs of damage or distortion. Fire tube supports and gas coll sled in place. No corrosion or erosion. Wear on tray valve legs. Cleanliness? Baffles, deflector plates, etc. If present, describe condition. Look closely at welds attached to vessel wall. West Head Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head) East Head Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head) Shell Sections Record number of shell sections. Record number of shell sectors Record location. Suce and depth of all restors aparent in vessel, lift pad and check top head for corrosion. Wedds Inspect all service-related damages and if there is any discuss with Chief Inspector before closing. Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector	Internal Inspection Items		F	P	N/A	Comments	
Anodes, How many, type, condition. %       X         consumed. Are they being replaced?       X         Internal Flying Is there any? If so, carbon or stainless steel. Describe condition, dents, corrosion, erosion, etc. Ensure supports are secure and any bolts are suitable for future use.       Y         Secure and any bolts are suitable for future use.       X       Anozles are in good condition. Welds appear sound. I signs of erosion or corrosion. No nochanical damage noted.         Ault nozzles are in good condition. Welds appear sound. I signs of erosion or corrosion. No obstructions.       No signs of damage or distortion.         use.       Trays How many? Type of material. Are valves in place? Check for erosion/ corrosion; wear on tray valve legs. Cleanlines?       X         Baffles, deflector plates, etc. If present, describe condition. Not closely at welds attached to vessel wall.       X         West Head Note all corrosion, erosion or mechanical damage. (If vessel is horizontal X identify direction of this head)       X         Baffles, cord location, size and depth of all erosion, corrosion allowance is observed in either shell or head, discuss with Chief Inspector before closing vessel.       X         Describe general condition. If any corrosion greasen in place? Is in place? If any discuss with Chief Inspector before closing vessel.       X         Demister Pad Is it in place? Is in clean? If any corrosion allowance is observed in either shell or head, discuss with Chief Inspector before closing.       X         Demister Pad Is it in place? Is in clean? If any corrosion	Coating Assess coating. Describe area coated,					Not coated	
consumed. Are they being replaced?       X         Internal Piping Is there any? If so, carbon or stainless steel. Describe condition, dents, corrosion, erosion, etc. Ensure supports are suitable for future use.       Process Coil in good condition. No signs of pitting or corrosion. No mechanical damage noted. All nozzles are in good condition. Welds appear sound. I signs of damage or distortion.         Trays How many? Type of material. Are valves in place? Check for erosion corrosion; ware on tray valve legs. Cleanlines?       X         Baffles, deflector plates, etc. If present, describe condition. Look closely at welds attached to vessel wall.       X         West Head Note all corrosion, or mechanical damage. (If vessel is horizontal identify direction of this head)       X         West Head Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)       X         Shell Sections Record number of shell serois on or orrosion or orrosion or orrosion or mechanical damage. (If vessel is horizontal identify direction of this head)       X         Shell Sections Record number of shell       X         Shell Sections Record number of shell       X         Demister pad Is it in place? Is it clean? If any corrosion is apparent in vessel, lift pad and check top head for corrosion.       X         No signs of damage or distortion.       X         Needs Inspect all welds, including attachment welds. Record all service-related damages and discuss with Chief Inspector before closing.       X         Record all service-related dama	general condition of coating.				Х		
Internal Piping Is there any? If so, carbon or stainless steel. Describe condition, dents, corrosion, etc. Ensure supports are secure and any bolts are suitable for future use.       X       Process Coil in good condition. No signs of pitting or corrosion. No mechanical damage noted. All nozzles are in good condition. Neldes appear sound. I signs of damage or distortion.         Trays How many? Type of material. Are valves in place? Check for erosion/ corrosion; wear on tray valve legs. Cleanliness?       X       No corrosion or corrosion. No obstructions. No damage or distortion.         Baffles, deflector plates, etc. If present, describe condition. Look closely at welds attached to vessel wall.       X       X         West Head Note all corrosion, erosion or mechanical damage. (If vessel is horizontal identify direction of this head)       X       No damage or distortion.         East Head Note all corrosion, size and depth of all sections. Record number of shell sections. Record number of shell sections. Record number of shell sections diversion allowance is observed in either shell or head, discuss with Chief Inspector before closing vessel.       Shell is in good condition. No signs of damage. No signs of damage or distortion.         Demister pad Is it in place? Is in clean? If any corrosion.       X       Demister Pad is clean. No signs of damage. No signs of erosion or corrosion. No pitting.         Demister Pad Is in place? If sing corrosion reschance all service-related damages and check top head for corrosion.       X         Repare to all service-related damages and if there is any discuss with Chief Inspector before closing.       X       No signs of erosion or cor	Anodes. How many, type, condition. %						
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corrosion is apparent in vessel, lift pad and check top head for corrosion.       No signs of erosion or corrosion.         Welds Inspect all welds, including attachment welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.       No signs of erosion or corrosion.         Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector       X       X							
check top head for corrosion.       No signs of erosion or corrosion.         Welds Inspect all welds, including attachment welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.       x       No signs of erosion or corrosion.         Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector       X       X		Х				Demister Pad is clean. No signs of damage.	
Welds Inspect all welds, including attachment welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.No signs of erosion or corrosion. No pitting.Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief InspectorXX							
welds. Record all service-related damages and if there is any discuss with Chief Inspector before closing.       x       No pitting.         Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector       X       X							
if there is any discuss with Chief Inspector before closing.  Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector  X							
before closing.       Repairs Required. If yes, ensure procedure and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector       X	6	х				No pitting.	
Repairs Required. If yes, ensure procedure         and copy of AB 40 is on file, and one sent to         local ABSA, and Chief Inspector							
and copy of AB 40 is on file, and one sent to local ABSA, and Chief Inspector							
local ABSA, and Chief Inspector							
					X		
NDE Was any NDE done (MI coordinator to	local ABSA, and Chief Inspector						
	NDE Was any NDE done. (MI coordinator to						
review results) X					Х		

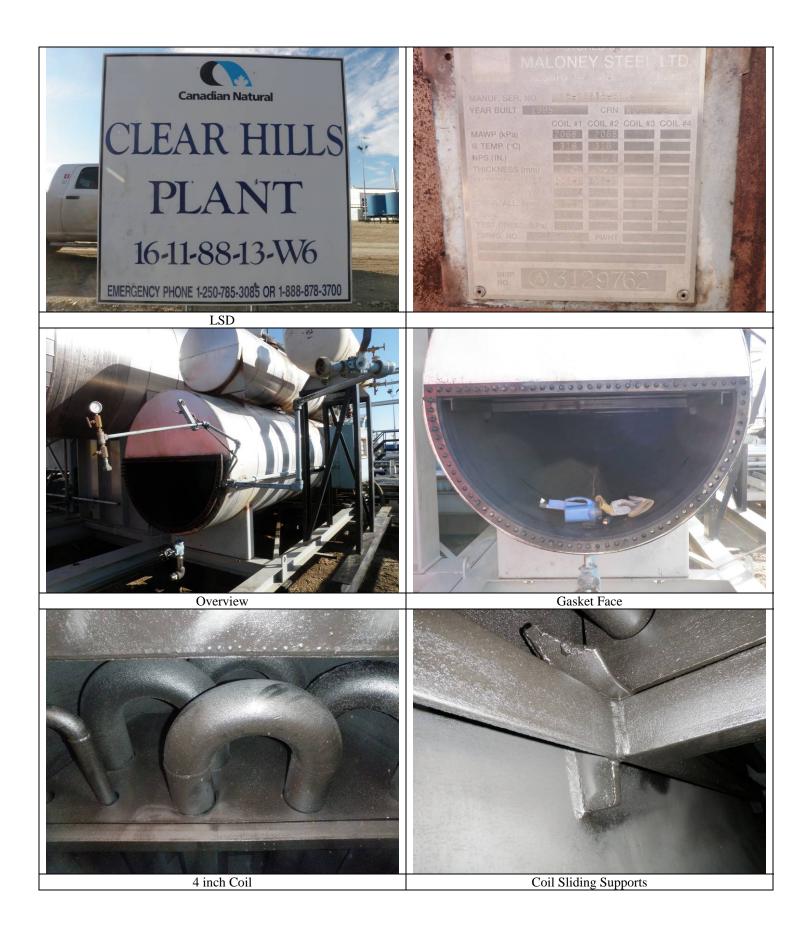
(MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

## **Other Observations: None.**

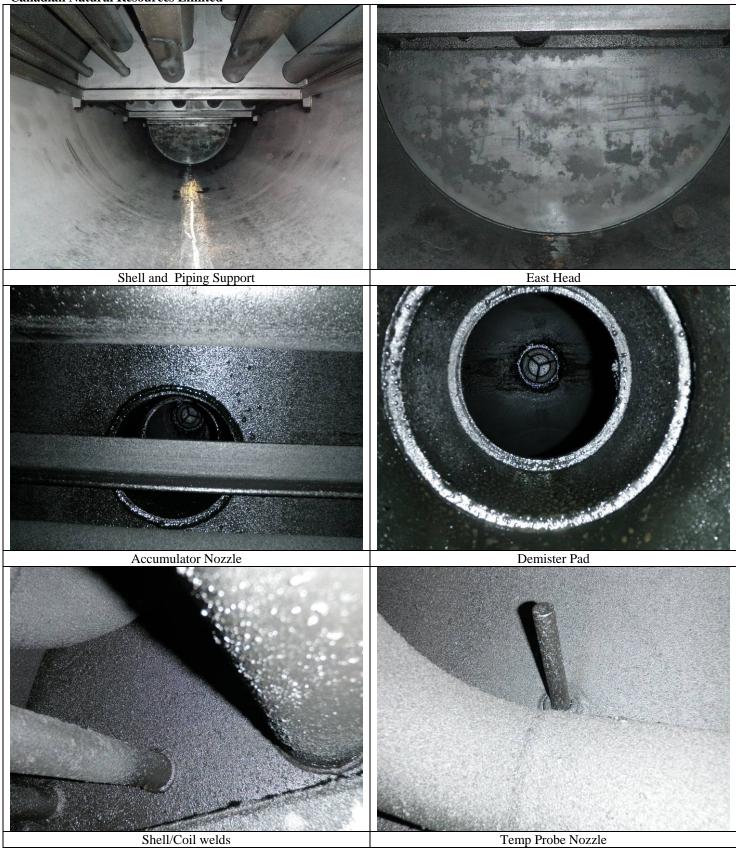
Recommendations: None at this time.

Summary: This vessel is in good overall condition, visual internal inspection carried out.

Vessel is fit for service



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