Canadian Natural Resources Limited GENERAL PRESSURE VESSEL INFORMATION Job # 10.110421														
District: Ft. St. Jol	hn B.C.	Skid No.												
Facility: Rigel Co		Location (LSD): d-75-A/94-A-15 W6M												
			Zoomon (Zoz); w to IN/III to Holfs											
	Vessel Name Equipment Number: Glycol Dehy Orientation: Vertical													
Status: In Ser	vice	DDECCHDE VEC	Regulatory Inspection MEDI ATE DATA											
PRESSURE VESSEL NAMEPLATE DATA "A" or "G" or "S" (Sask.) or BC Registration Number. CRN Number:														
A of G	or 5 (bask.) or be r	CICIV INUMBER.												
	A0462522	P 0622.21												
Vessel serial numbe		Size: 24.0 in. X 26.0 ft.												
Shell thickness: 25.4		Shell material: SA516 70N												
Head thickness: 23.8 Tube wall thickness		Head material: SA516 70N Tube material:												
Tube diameter:	•			Tube length:										
Channel thickness:				Channel material:										
Chainlei unckness.	Shell: 1480 PSI			Chainer material.										
Design pressure		Operating pressure		Shell:										
	Tubes:			Tubes:										
Design Temp.	Shell: 100 F	Operating temperature		Shell:										
Dough Temp				Tubes:										
X-ray: RT 2	1		Heat treatment: HT											
Code parameters: A	SME VIII, Div 1	Coated: no												
Manufacturer: Propa		Year built: 2001												
Corrosion allowance		Man way: no												
PRESSURE SAFETY VALVE NAMEPLATE DATA														
PSV Tag #	Manufacture Model #			Serial #	Set Pressure		Capacity	Service						
						Pa)	(scfm)	Date						
	Mercer 8133251T125G21			69597 1000		PSI	8037	06/10						
							2011							
								2011						
CRN#	Service By	Block Valve		Location	Size		Code Stamp							
OG2606.5C	Unified Valve	No		Lower shell	1.5 x 2.0		UV/NB							
	7 9 200000													
	SER	VICE CONDITION	S-INDI	CATE ALL TH	AT APPLY	<u> </u>								
Sweet	Sour X			Oil			X	Water						
Amine	LPG Con-			Condensate X Air				Glycol X						
Other (Describe):														
Inspection Interval PSV Service Interval														
(Determined by MIC in conjunction with Chief Inspector following guidelines of CNRL's Owner-User Inspection Program)														
Reports reviewed and accepted by: Mechanical Integrity Coordinator Date														

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.		X			Roof seal is leaking. 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 is blistered. No signs of damage or distortion.
Leakage Record any leakage at flanges, threaded joints, weep holes on repads, etc.	X				No signs of leaking.
Saddle/skirt Assess condition of paint, fire protection, and 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	X				Skirt is welded to lower head. No signs of cracking or leaking at welds. No signs of buckling
are acceptable. Ground wire attached? Anchor Bolts Hammer tap to ensure secure. Look for cracking in treads or signs of deformation.	X				Vessel grounded through the skid package. Secured.
Concrete foundation Check for cracks, spalling, etc.				X	None.
Ladder / Platform Describe general condition, ensure support is secure to vessel, and describe any hazards.				X	None.
Nozzle Assess paint, look for leakage, and ensure stud threads are fully engaged. Record any damage, deflection, etc. Are nozzles gusseted?	X				Studs are fully engaged. Threaded fittings are secure.
Gauges Ensure gauges are visible, working, no leakage, and suitable for range of MAWP/ Temp.	X				Liquid level gauge is clear and working.
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				Well supported. No signs of deflection. No leaks.
Valving Ensure no leaks are visible. Valves are properly supported and chained if necessary.	X				Well supported – no leaks.
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				Located on lower shell. Set pressure is below MAWP. Seal intact. No block valve.
NDE methods Was UT/ MPI done on vessel (MI coordinator to review results)	X				Ultrasonic corrosion survey carried out – no metal thickness detected below nominal minus corrosion allowance.

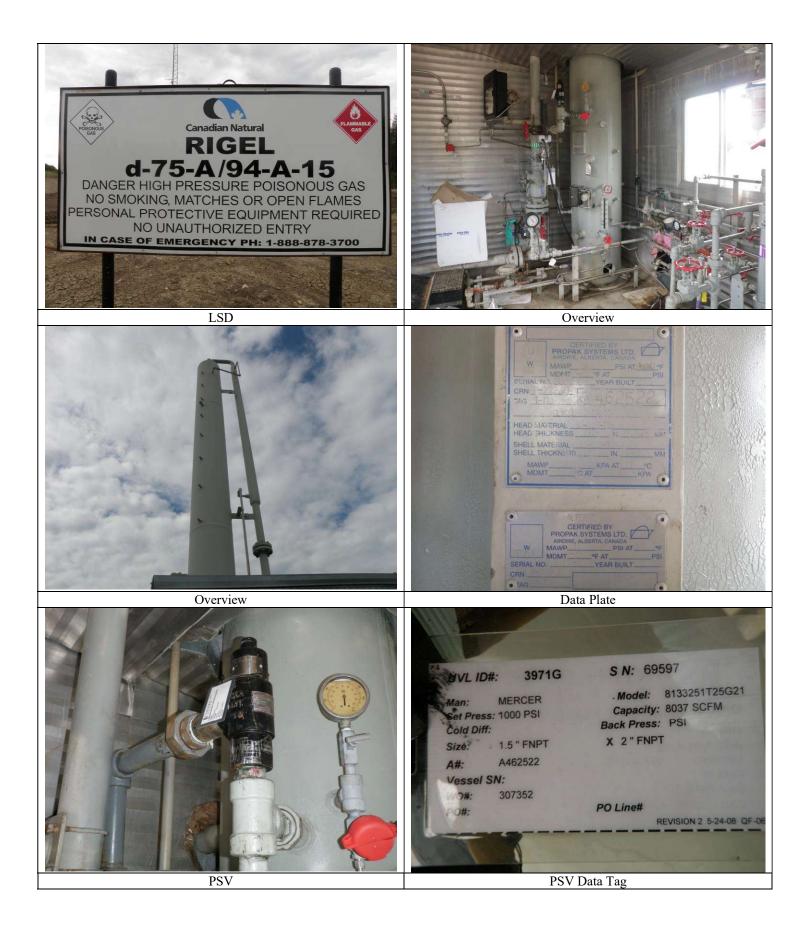
Recommendations or corrective actions: Vessel is Fit for Service or describe corrective actions required) (MIC to review corrective actions with Operations, discuss with Chief Inspector where necessary, and get remedial action implemented)

Recommendations: 1. None at this time.

Summary: This vessel is in good condition, visual external and ultrasonic thickness inspection carried out – no metal thickness detected below nominal minus corrosion allowance.

Long term corrosion rate based on greatest thickness loss – no corrosion rate to assess.

Vessel is fit for service.



Date: August 07, 2011

