Pressure Equipment Integrity Management System
External Visual Inspection Form

Gene	ral Vessel Dat	ta									
Owne	er:	NuVista Energy Ltd					strict/Area:	W5 Alberta North			
Facili	ty:	Wapiti					Location (LSD) ♦: 04-15-69-10 W6M Serial Number ♦: C-9906-A/B				
A Nu	A Number ♦ : 413607					Se					
CRN	CRN •: L3369.213					Ve	Vessel Type: Line Heater				
Description ♦: Line Heater					Proce			Well Line Heater			
Tag No:					St	atus ♦ :	In Service				
Statu Exter	s during Insp mal Inspection	ection n	🔀 In Se	ervice	Out of Service						
			<u>O.K.</u>	<u>Comm</u>	<u>ents</u>						
Paint/Coating Condition:			Flanged ends are painted – no exposed metal								
Insulation Condition:			No open sections or wet insulation								
External Condition:			No distortion – no damaged areas								
Foundation:			Skid is mounted on pilings – no settlement								
Leaks/Drips/Seeping:			All valves are well supported – no visible leaks								
Bending/Warping/Distortion:			All piping is well supported – no deflection, clamps and supports in place.								
Dents/Cuts/Gouges:			No dents or gouges – no mechanical damage								
Condition of Gauges:				No gauges							
			Current operating pressure (shell):			🗌 psi 🗌 kl	kPa Range: 🗌 psi 🗌 kF				
				Current operating pressure (tube):			🗌 psi 🗌 kl	🗌 psi 🗌 kPa 🛛 Range: 🗌			
				Current operating temperature: (shell):			□ °F □ °(<u>°C Range: □ °F □ °C</u>			
			Current operating temperature: (tube):					□ °F [J°C		
Ladde	Ladders/Walkways:										
Ground Wire Connection:			Attached to skid								
Other Equipment:											
PRV	Data										
	Vessel MAWP		PR Set Pre	/ ssure	PRV Capacity	PRV Size	Last Service Date	Serviced By	Block Valve Present?	Locked Open?	
Shell Side	1350 psi	#1	ps								
	psi	#2	ps						1		
lbe de	3944 psi	#1	ps								
Tu Si	psi	#2	ps								

PRV Check: OK- PRV Set pressure is not greater than vessel MAWP

PRV is set too high. Reset PRV to vessel MAWP.

NORTHEEN MATERIALS ENGINEERING LTD.	Pressure Equipment Integrit External Visual Ins	Pressure Equipment Integrity Management System External Visual Inspection Form						
A#: 4136	07 Vessel Description: Line Heater	Location(LSD): 04-15-69-10	W6M					
Additional Field	Notes/Comments							
Ultrasonic thick	ness survey carried out – piping metal thickness d	etected below nominal minus 12.5% mil	tolerance for corrosion					
allowance. Nominal thickness on 2 inch sch 160 is 8.7 mm / min thickness is 7.5 mm.								
Remedial Actions Required? no 🛛 yes 🗌 If yes, indicate required work and RA #: Remedial Action No.:								
External condition	is acceptable to warrant continued service? yes 🛛	no 🗌						
Inspector Name:	Dellas Wiedman	Inspector Company: Applus RTD						
Inspector Signature	1. J - J	Inspection Date: Oct 27, 2010						
Sketch / Image	Irea							

NORTHERN MATERIALS ENGINEERING ITD.	Pr	essure Equ Ext	NME Form I-3 Version 003.05 Page 3 of 3					
A#: 413607	Vesse	I Description:	Line Heater	l	ocation(LSD): 04-15-69-10) W6M		
Service Conditions								
Process Fluids Description	n:	Sour		Produced Water	OWE	Solids		
		Condense	d Water	Amine	Air	Frac. Sand		
		Liquid Hyd	rocarbon	Glycol	⊠NG			
Potential Mode(s) of Dete	erioration:	Pitting			High Temp	Sulphidation		
			orrosion			Under Deposit Corr.		
	Cracking>					Other		
Area(s) Most Likely to De	teriorate:			Bottom Head				
		Attachmen	ts	Shell (lower)	Shell (Upper)	Shell (other)		
		Tubes		Piping (inlet)	Piping (outlet)	Piping (drain)		
Current Mitigation Progra	m?	∐Yes ⊠N	D,					
Other Considerations?		(if yes, describe ☐Yes ⊠Ne	e) 0					
		(if yes, describe	e)					
Corrosion Monitoring (Coupons / Probes) Other (describe) Inspection History (Complete this section if the vessel is new and a baseline inspection was completed or if the vessel is used)								
Inspection Company								
Inspection – Plan	Assigned Inspe	ction Grade	<u>1</u> Previ	ious Exam Grade				
Activity Required	<u>Ye</u>	<u>s No</u>	<u>Interval</u> (years)	<u>Due Date</u> (dd / mmm / yy)	Comn	nents / Justification		
Offline Internal Visual				/ //				
Crack Inspection			4					
Additional Inspection(s)				/				
External Visual			5	27/ Oct /2015				
PRV service interval								
Notes								
Complete if Assessor is different than Inspector								
Assessor Name:	Tony	Chan		Company:	Northern Materials Engine	ering Ltd.		
Assessor Signature:	7	M-		Assessment Date:	Apr 20, 2011			
Report Certification								
Report Certified By (signa	ature):	1 DZ		Certificate No:	000396	ISPVI		
					Revised November 25, 2010) Northern Materials Engineering Ltd.		