



# Pressure Equipment Integrity Management System External Visual Inspection Form

### General Vessel Data

Owner: <u>NuVista Energy Ltd</u>	District/Area: <u>W5 Alberta West</u>
Facility: <u>Sunchild</u>	Location (LSD) ♦: <u>11-29-43-11 W5M</u>
A Number ♦: <u>560371</u>	Serial Number ♦: <u>BC-13469</u>
CRN ♦: <u>P9738.21</u>	Vessel Type: <u>Separator</u>
Description ♦: <u>Low Temp Blowcase</u>	Process: <u>Comp Stn Blowcase</u>
Tag No: _____	Status ♦: <u>In Service</u>

Status during Inspection     In Service     Out of Service

### External Inspection

	<u>O.K.</u>	<u>Comments</u>
Paint/Coating Condition:	<input checked="" type="checkbox"/>	_____
Insulation Condition:	<input type="checkbox"/>	<u>N/A</u>
External Condition:	<input checked="" type="checkbox"/>	_____
Foundation:	<input checked="" type="checkbox"/>	<u>Bolted</u>
Leaks/Drips/Seeping:	<input checked="" type="checkbox"/>	_____
Bending/Warping/Distortion:	<input checked="" type="checkbox"/>	_____
Dents/Cuts/Gouges:	<input checked="" type="checkbox"/>	_____
Condition of Gauges:	<input checked="" type="checkbox"/>	_____
Current operating pressure (shell): <input type="checkbox"/> psi <input type="checkbox"/> kPa    Range: <input type="checkbox"/> psi <input type="checkbox"/> kPa		
Current operating pressure (tube): <input type="checkbox"/> psi <input type="checkbox"/> kPa    Range: <input type="checkbox"/> psi <input type="checkbox"/> kPa		
Current operating temperature: (shell):60 <input checked="" type="checkbox"/> °F <input type="checkbox"/> °C    Range: 50 to 400 <input checked="" type="checkbox"/> °F <input type="checkbox"/> °C		
Current operating temperature: (tube): <input type="checkbox"/> °F <input type="checkbox"/> °C    Range: <input type="checkbox"/> °F <input type="checkbox"/> °C		
Ladders/Walkways:	<input checked="" type="checkbox"/>	_____
Ground Wire Connection:	<input checked="" type="checkbox"/>	_____
Other Equipment:	<input checked="" type="checkbox"/>	_____

### PRV Data

	Vessel MAWP	PRV Set Pressure	PRV Capacity	PRV Size	Last Service Date	Serviced By	Block Valve Present?	Locked Open?
Shell Side	9929 kPa	#1	9929 kPa	5508 scfm	1" X 1.5"	new	No	No
		#2						
Tube Side		#1						
		#2						

PRV Check:     OK- PRV Set pressure is not greater than vessel MAWP             PRV is set too high. Reset PRV to vessel MAWP.



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**Additional Field Notes/Comments**

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: Joe Semenuik Inspector Company: Northern Materials Engineering Ltd.

Inspector Signature: *Joe Semenuik* Inspection Date: July 14, 2011

**Sketch / Image Area**





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**Service Conditions**

Process Fluids Description:     Sour                                     Produced Water                                     OWE                                     Solids  
     Condensed Water                                     Amine                                     Air                                     Frac. Sand  
     Liquid Hydrocarbon                                     Glycol                                     NG                                     \_\_\_\_\_

Potential Mode(s) of Deterioration:     Pitting                                     Crevice                                     High Temp                                     Sulphidation  
     General Corrosion                                     Erosion                                     Cavitation                                     Under Deposit Corr.  
     External Atm. Corrosion                                     Under Insulation                                     Mechanical Damage  
    Cracking>  SCC                                     Hydrogen                                     Fatigue                                     Other

Area(s) Most Likely to Deteriorate:     Top Head                                     Bottom Head                                     Nozzles                                     Welds  
     Attachments                                     Shell (lower)                                     Shell (Upper)                                     Shell (other)  
     Tubes                                     Piping (inlet)                                     Piping (outlet)                                     Piping (drain)

Current Mitigation Program?     Yes  No  
    (if yes, describe) \_\_\_\_\_  
 Other Considerations?     Yes  No  
    (if yes, describe) \_\_\_\_\_

**Additional Process Monitoring**     Yes  No (if yes, describe in area below or attach details)

Fluids Sample (Type / Frequency/Analysis Req'd)    \_\_\_\_\_  
 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    \_\_\_\_\_ Last Inspection Date    \_\_\_\_\_

**Inspection – Plan**    Assigned Inspection Grade   2      Previous Exam Grade   2  

<u>Activity Required</u>	<u>Yes</u>	<u>No</u>	<u>Interval</u> (years)	<u>Due Date</u> (dd / mmm / yy)	<u>Comments / Justification</u>
Offline Internal Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	/ /	_____
UT Inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	07 / Dec / 2014	_____
Crack Inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4	05 / Dec / 2014	_____
Additional Inspection(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	/ /	_____
External Visual	_____	_____	5	14 / Jul / 2016	_____
PRV service interval	_____	_____	3	/ /	Due

**Notes**

**Complete if Assessor is different than Inspector**

Assessor Name:    \_\_\_\_\_ Company:    \_\_\_\_\_

Assessor Signature:    \_\_\_\_\_ Assessment Date:    \_\_\_\_\_

**Report Certification**

Report Certified By (signature):    *John De...*    Certificate No:    000396    ISPVI