



# Pressure Equipment Integrity Management System External Inspection Form

Owner: EOG Canada Oil and Gas District/Facility: Northeast BC / Maxhamish  
 Location (LSD) ♦: D-36-l/94-O-14 Surface Location: \_\_\_\_\_

**Vessel Data**

A Number ♦: SN-JL2008-059 Serial Number ♦: JL2008-059  
 CRN ♦: R1288.2134 Vessel Type: Filter  
 Description ♦: Dehy #2 Glycol Filter Skid / Process: Dehy Skid #2  
 Tag No: 7683 Current Status: In Service

**Course #1 (Main)**

Orientation: Vertical Coated? No Type: \_\_\_\_\_  
 Fluids: \_\_\_\_\_ Anodes? No Type: \_\_\_\_\_ Quantity: \_\_\_\_\_  
 Sour ♦? No Hand Holes? No  
 Manufacturer ♦: JL Filtration Manway? No Size: \_\_\_\_\_  
 MAWP ♦: 350 psi MAWP Temp: 200 °F MDMT: \_\_\_\_\_  
 Shell Material: \_\_\_\_\_ Nom. Shell Thick: \_\_\_\_\_  
 Head Material: \_\_\_\_\_ Min. Head Thick: \_\_\_\_\_  
 Diameter: 6.625 in OD Length: 15 in  
 Year Built ♦: 2008 Installation Date ♦: \_\_\_\_\_ Corrosion Allow: \_\_\_\_\_  
 Volume: \_\_\_\_\_ Stress Relieved? No  
 Radiography: RT1 ABSA Grade: 2

**Course #2**

Description: \_\_\_\_\_ Course Type: \_\_\_\_\_  
 Fluids: \_\_\_\_\_ Sour? \_\_\_\_\_  
 MAWP: \_\_\_\_\_ MAWP Temp: \_\_\_\_\_  
 Tube/Shell Material: \_\_\_\_\_ Nom. T/S Thick: \_\_\_\_\_  
 Head Material: \_\_\_\_\_ Min. Head Thick: \_\_\_\_\_  
 Diameter: \_\_\_\_\_ Length: \_\_\_\_\_

**PRV #1** Course # 1 PRV Location or Position: Dehy #2 glycol filter inlet line  
 Serial No ♦: 721123 Model No: 91-17D51V0CE1  
 Set Pressure ♦: 80 psi Ports: 1 x 1"  
 Capacity: 187 scfm Manufacturer: Mercer  
 Service date ♦: Jun 10, 2013 By: PIMMS Car Seal #: \_\_\_\_\_  
 Block Valve? Yes Install Date: \_\_\_\_\_ Tag no: 10945

**PRV #2** Course # \_\_\_\_\_ PRV Location or Position: \_\_\_\_\_  
 Serial No: \_\_\_\_\_ Model No: \_\_\_\_\_  
 Set Pressure: \_\_\_\_\_ Ports: \_\_\_\_\_  
 Capacity: \_\_\_\_\_ Manufacturer: \_\_\_\_\_  
 Last Service date: \_\_\_\_\_ By: \_\_\_\_\_ Car Seal #: \_\_\_\_\_  
 Block Valve? \_\_\_\_\_ Install Date: \_\_\_\_\_ Tag no: \_\_\_\_\_

Comments: HAS UT MARKINGS ON VESSEL, \_x000D\_ PIC:5295, 5296.



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SN: JL2008-059      Vessel Description: Dehy #2 Glycol Filter      Location(LSD): D-36-I/94-O-14

### External Visual Inspection - Vessel

	OK	<u>Comment</u>		OK	<u>Comment</u>
Name Plate Accessible:	<input checked="" type="checkbox"/>	_____	Paint/Coating Condition:	<input checked="" type="checkbox"/>	Shell dirty. _____
Piping Connections Made:	<input checked="" type="checkbox"/>	_____	Insulation Condition:	<input type="checkbox"/>	N/A _____
Inspection Access (i.e. skirt):	<input checked="" type="checkbox"/>	_____	External Surface Condition:	<input checked="" type="checkbox"/>	_____
Bolting Check:	<input checked="" type="checkbox"/>	_____	Foundation:	<input checked="" type="checkbox"/>	_____
Leaks/Drips/Seeping:	<input checked="" type="checkbox"/>	_____	Bending/Warping/Distortion:	<input checked="" type="checkbox"/>	_____
Dents:	<input checked="" type="checkbox"/>	_____	Cuts/ Gouges:	<input checked="" type="checkbox"/>	_____
Ladders/Walkways:	<input checked="" type="checkbox"/>	_____	Ground Wire Connection:	<input checked="" type="checkbox"/>	_____
Condition of Gauges:	<input checked="" type="checkbox"/>	_____	Other Equipment:	<input checked="" type="checkbox"/>	_____
Observed operating pressure (shell):	0	<input checked="" type="checkbox"/> psi <input type="checkbox"/> kPa	Gauge Range (shell):	0 to 300	<input checked="" type="checkbox"/> psi <input type="checkbox"/> kPa
Observed operating pressure (tube):		<input type="checkbox"/> psi <input type="checkbox"/> kPa	Gauge Range (tube):		<input type="checkbox"/> psi <input type="checkbox"/> kPa
Observed operating temperature (shell):		<input type="checkbox"/> °F <input type="checkbox"/> °C	Gauge Range (shell):		<input type="checkbox"/> °F <input type="checkbox"/> °C
Observed operating temperature (tube):		<input type="checkbox"/> °F <input type="checkbox"/> °C	Gauge Range (tube):		<input type="checkbox"/> °F <input type="checkbox"/> °C

#### Detailed Observations/Notes/Comments:

### External Visual Inspection - Piping

	OK	<u>Comment</u>		OK	<u>Comment</u>
PRV Piping Check:	<input checked="" type="checkbox"/>	_____	Flare Line Slope Check:	<input checked="" type="checkbox"/>	_____
Bolting Check:	<input checked="" type="checkbox"/>	_____	Insulation Condition:	<input type="checkbox"/>	N/A _____
Paint/Coating Condition:	<input checked="" type="checkbox"/>	_____	Check for dead legs:	<input checked="" type="checkbox"/>	_____
Leaks/Drips/Seeping:	<input checked="" type="checkbox"/>	_____	Bending/Warping/Distortion:	<input checked="" type="checkbox"/>	_____
Dents:	<input checked="" type="checkbox"/>	_____	Cuts/Gouges:	<input checked="" type="checkbox"/>	_____
Supports:	<input checked="" type="checkbox"/>	_____	Misalignment:	<input checked="" type="checkbox"/>	_____

#### Detailed Observations/Notes/Comments:

### PRV Data

	Vessel MAWP		PRV Set Pressure	PRV Capacity	PRV Size	Last Service Date	Serviced By	Block Valve Present?	Locked Open?	Reportable?
Shell	350 psi	#1	80 psi	187 scfm	1 x 1"	Jun 10, 2013	PIMMS	Yes	No	No
Tube		#2								

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

#### Detailed Observations/Notes/Comments:



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Action Item(s) Identified? no  yes  If yes, indicate required work: \_\_\_\_\_

Field Tag No.: \_\_\_\_\_

The scope of this external inspection is restricted to the items detailed above and forms part of a thorough integrity assessment for this equipment. Results of this inspection have determined the external condition of this equipment to be:

- Acceptable
- Acceptable with the identified action items resolved before the associated action item's "Required By Date".
- Not Acceptable until the identified action items are resolved.

Inspector Name: Josh Neufeld      Inspector Company: Northern Materials Engineering

Inspector Signature:       Inspection Date: August 10, 2016

**Sketch / Image Area**



TITLE	DRAWN BY	DATE
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**Documentation**

- ABSA Documents Acquired:       Manufacturer's Data Report (U-1A)       Jurisdictional Operating Permit/Licence
- Name Plate Information is correct?       Yes       No       To be completed through routine ABSA reporting process
- Design is registered in province (CRN)?       Yes       No, Generate an action item and arrange for design registration



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## External Inspection Form

NME Form F01-03  
Version 002.05  
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SN: JL2008-059      Vessel Description: Dehy #2 Glycol Filter      Location(LSD): D-36-I/94-O-14

### Service Conditions

Process Fluids Description:       Sour                               Produced Water                       OWE                               Solids  
     Condensed Water                       Propane                               Air                               Frac. Sand  
     Liquid Hydrocarbon                       Glycol                               NG                               U

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 Grade           Previous Grade   2        (if Assigned Grade differs from Previous Grade explain in **Notes** section below)

Activity Required	Yes	No	Interval (years)	Due Date (dd / mmm / yy)	Comments / Justification
Offline Internal Visual	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	/ /	_____
UT Inspection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5	09 / Aug / 21	_____
Crack Inspection	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	/ /	_____
Additional Inspection(s)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	/ /	_____
External Visual			5	10 / Aug / 21	_____
PRV service interval			5	10 / Jun / 18	_____

### Notes

### Complete if Assessor is different than Inspector

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

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

### Report Certification

Report Certified By (signature):      *[Signature]*      Certificate No:      000239      ISPVI