

## Field Inspection Report - Long\_Run 3174858\_11/06/2013\_VT\_Internal

<b>Vessel Number</b>	3174858	<b>Vessel Name</b>	INLET SEPARATOR	<b>Province</b>	Alberta
<b>District</b>	NORTHERN - AB	<b>LSD</b>	03-26-074-01W6	<b>Location</b>	PUSKWASKAU
<b>Method</b>	VT	<b>Access</b>	Internal	<b>Cleaning</b>	Good
<b>Inspection Date (mm/dd/yyyy)</b>	11/06/2013	<b>Inspection Interval (months)</b>	60	<b>Next Inspection (mm/dd/yyyy)</b>	11/06/2018
<b>CRN</b>	N1538.2	<b>Skid Number</b>	PKG62774	<b>Service</b>	SOUR
<b>Internal Access</b>	Yes	<b>Internal Coating</b>	No	<b>Status</b>	In Service
<b>MAWP (PSI)</b>	1400	<b>MAWP (kPa)</b>	9652.72	<b>Outstanding NCRs</b>	0
<b>MAWT (°C)</b>	65.56	<b>MAWT (°F)</b>	150		

### General

The vessel was blinded, opened and cleaned for internal inspection as part of the 2013 T/A. Vessel is 3/4s indoors and painted with the inlet end outdoors, insulated and clad.

Ultrasonic corrosion survey was completed on this piece of pressure equipment and associated piping in 2013 with no notable wall loss recorded.

All vessel thickness readings were found to be above ASME Section VIII, Div. 1 code requirements at time of inspection and retirement date to be 2033.

PSV protecting the vessel was serviced during this T/A.

In sour service.

RT-1.

PWHT - Yes.

CA = .125"

See attached pictures.

### Safety Valves

PSV P102253 Shell side. Set pressure: 1400 PSI / 9652.72 KPa. MAWP: 1400 PSI / 9652.72 KPa. Capacity: 13647 SCFM / 386.44 m3/min.

### External Condition

All visible shell surfaces and nozzles appear in good condition. Name plate is intact and legible. Vessel supports, foundation, and electrical grounding appear good. 2 saddles supporting vessel are tight on both ends. Exterior surface is painted with the inlet head outside of building is insulated as well. Paint has some

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surface rust from what appears to be from the UT couplant. Associated piping, supports and components appear in good condition and alignment with no signs of leaks or defects present at the time of inspection. No evidence of short studding or nut rounding at time of inspection.

20" x 600# manway on the outside of the building.

Verify PSV protection and PSV's are properly installed with any block valves locked/sealed open. Verify vessel has Alberta CRN and A# stamping, PSV has correct code stamp, set pressure and MWS tagging, and was last serviced within the required interval guidelines.

### Internal Condition

Vessel not internally coated.

Internals were cleaned and washed for inspection.

All internal vessel shell, head and nozzle surfaces were clean for inspection and found no evidence of any hydrogen blistering, deterioration or defects. There was a lot of the mil scale peeling with some areas of isolated pitting. Found location found during the 2009 inspection to have not changed from 0.045" deep (5 - 7 O'clock position west of manway) Found other pitting with a depth of 0.020" in depth and 1/4" diameter. The largest pit found was a 0.050" in the 9 O'clock position (north side of demister)

Circs, longs, attachment and Cat. D welds appear in good order.

All nozzles and circ/long seams T joints for 12" had MPI completed on them finding nothing of concern. See MWS report for this equipment and day.

12" weir, flow diverter, vortex breaker and internal attachments are all intact and sound. Fillet welds are good. The nozzles are clear, boot assemble was clean with no obstructions. Boot was 20" dia. X 32" deep with a vortex breaker in the bottom.

Demister not removable, but appears clean and aligned as seen from underneath. Support assembly, expanded metal/grating, and tie wires are secure. Fillet welds are good. The bolts are all in place and tight.

Manway, cover, davit and gasket faces are in good condition and working order. The davit should be greased

Recommendations

### Recommendations

Maintain on stream Ultrasonic Corrosion survey monitoring of the vessel components and associated piping. After closure, remove manway davit arm, grease and re-install in preparation for next opening.

Internally inspect again in 5 years.





Clean debris from vessel internals prior to closure.

The above recommendations have been reviewed with operations prior to closure.

<b>Suitable to be returned to Service</b>	Yes	<b>Suggested Inspection interval (Months)</b>	60
<b>Repairs are still required</b>	No		
Daryl Cole Cert 000391 <b>Inspector</b>	<b>Signature</b>		11/11/2013 <b>Date (mm/dd/yyyy)</b>

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### Pictures

	
<p>LRE - 3174858 INLET SEP. INT. 11-06-13 (1).JPG</p>	<p>LRE - 3174858 INLET SEP. INT. 11-06-13 (5).JPG</p>
	
<p>LRE - 3174858 INLET SEP. INT. 11-06-13 (6).JPG</p>	<p>LRE - 3174858 INLET SEP. INT. 11-06-13 (10).JPG</p>