



Mountain West Services Ltd.

## Inspection Report - CNRL # 8422

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### 475274- LINE HEATER

#### UT External

|                               |                |                             |                   |
|-------------------------------|----------------|-----------------------------|-------------------|
| <b>Province:</b>              | Alberta        | <b>Manway:</b>              | NO                |
| <b>District:</b>              | GPOU           | <b>Coating:</b>             | No                |
| <b>Location:</b>              | JOSEPHINE      | <b>Inspect Date:</b>        | 8/9/2007          |
| <b>LSD:</b>                   | 09-01-083-10W6 | <b>Inspection Interval:</b> | 60                |
| <b>CRN:</b>                   | H-549.238TY    | <b>Next Inspection:</b>     | 8/9/2012          |
| <b>Skid/Equipment Number:</b> | SKID0542       | <b>MAWP:</b>                | 10 PSI 68.948 KPa |
| <b>Service:</b>               |                | <b>Temperature:</b>         | 199.4 F 93 C      |
| <b>Status:</b>                | In Service     | <b>Outstanding NCRs:</b>    | 0                 |

#### General:

2007 Ultrasonic Corrosion Survey.

#### Safety Valves:

PSV [ANON-CODE](#) Protects the Shell Of the Vessel. Set Pressure of 5 PSI / 34.474 KPa. Capacity: /  
 PSV [MWS65311](#) Protects the Coil1 Of the Vessel. Set Pressure of 1400 PSI / 9652.72 KPa. Capacity: 34906SCFM / 988.43m3/min  
 PSV [MWS65311](#) Protects the Coil2 Of the Vessel. Set Pressure of 1400 PSI / 9652.72 KPa. Capacity: 34906SCFM / 988.43m3/min

|                           |                                |                         |                       |
|---------------------------|--------------------------------|-------------------------|-----------------------|
| <b>Status:</b> In Service | <b>Examination Methods:</b> UT | <b>Access:</b> External | <b>Cleaning:</b> Good |
|---------------------------|--------------------------------|-------------------------|-----------------------|

#### External:

Refer to 2007 VT External inspection report as part of this thorough inspection.

#### Internal:

The line heater tube bundle nozzles were UT inspected for wall loss. Hunt Inspections's Ultrasonic Corrosion Survey Project #C10158, as reported on Drawing #3, noted all

nozzle thickness readings to be above ASME B31.3 code requirements at time of inspection. The calculated retirement date is 2027 with a program maximum of 20 years.  
 The associated piping was also inspected with no notable wall loss recorded.  
 Caution was generated on piping TML 3-30. Calculations indicate the area is well above minimum required thickness for design conditions.  
 The elbow appears to be at the low end of the 12.5% allowable mill undertolerance.  
 Next inspection is 4 years or 1/2 remaining life, whichever is less.

**Recommendations:**

Recommend 5 year interval for next UT inspection.  
 Ultrasonic Corrosion Survey due again in 2012.

**Inspector's Declaration:** I have witnessed the above inspections and certify that they have been done in accordance with our manual and that the information is accurate. I certify that the status of the pressure equipment detailed here is:

|   |  |
|---|--|
| <b>Suitable to be returned to service:</b> Yes  | <b>Repairs complete:</b> N/A             |
| <b>Repairs are still required:</b> No   | <b>Suggested Inspection Interval:</b> 60 |
| <b>Inspector:</b> Duane Paetkau Cert #000087<br><b>Date:</b> 11/29/2007   |  |
| <b>Chief Inspector:</b> I certify that the information on this report is true and that all inspections required by the Owner/User Quality Assurance Program# AQP-8047 which expires in 12/06/05 have been done. |  |
| <b>Chief Inspector:</b> Jim Damiani Cert 00037<br><b>Date:</b> 12/4/2007  |  |

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