



Mountain West Services Ltd.

Inspection Report - CNRL # 9622

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3084993- LINE HEATER

UT External

Province:	Alberta	Manway:	NO
District:	GPOU	Coating:	No
Location:	TEEPEE CREEK FIELD	Inspect Date:	2/27/2008
LSD:	04-02-075-07W6	Inspection Interval:	48
CRN:	N/A	Next Inspection:	2/27/2012
Skid/Equipment Number:	SKID0622	MAWP:	10 PSI 68.948 KPa
Service:	Sour	Temperature:	200 F 93.33 C
Status:	In Service	Outstanding NCRs:	0

General:

2008 Ultrasonic Corrosion Survey.

Safety Valves:

PSV [ANON-CODE](#) Protects the Shell Of the Vessel. Set Pressure of 5 PSI / 34.474 KPa. Capacity: /
 PSV [MWS69101](#) Protects the Coil1 Of the Vessel. Set Pressure of 1350 PSI / 9307.98 KPa. Capacity: 5300SCFM / 150.08m3/min
 PSV [MWS69101](#) Protects the Coil3 Of the Vessel. Set Pressure of 1350 PSI / 9307.98 KPa. Capacity: 5300SCFM / 150.08m3/min
 PSV [MWS69102](#) Protects the Coil2 Of the Vessel. Set Pressure of 800 PSI / 5515.84 KPa. Capacity: 2774SCFM / 78.55m3/min

Status: In Service	Examination Methods: UT	Access: External	Cleaning: Good
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External:

Refer to the latest 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 #C10178, as reported on Drawing #146, noted all nozzle thickness readings to be above ASME B31.3 code requirements at time of inspection. The calculated retirement date is 2028 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 146-35. Calculations indicate the area is well above minimum required thickness for design conditions - t-min calculated at PSV set pressure of 1350 psi. Nominal thickness of the 2" piping = .218". T-min @ 1350 psi = .0775". Lows of .171" were recorded within the TML. Caution was generated on piping TML 146-50. 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 4 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:

Suitable to be returned to service: Yes	Repairs complete: N/A
Repairs are still required: No	Suggested Inspection Interval: 48
Inspector: Duane Paetkau Cert #000087 Date: 4/22/2008	
Chief Inspector: I certify that the information on this report is true and that all inspections required by the Owner/User Quality Assurance Program# AQP-9013 which expires in 12/11/2010 have been done.	
Chief Inspector: Jim Damiani Cert 00037 Date: 5/28/2008	

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