



Mountain West Services Ltd.

Inspection Report - CNRL # 7479

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418372- HORIZONTAL SEPARATOR

VT Internal

| | | | |
|-------------------------------|----------------|-----------------------------|-----------------------|
| Province: | Alberta | Manway: | YES |
| District: | GPOU | Coating: | No |
| Location: | MONTNEY | Inspect Date: | 6/15/2007 |
| LSD: | 06-02-074-10W6 | Inspection Interval: | 36 |
| CRN: | N-9626.2 | Next Inspection: | 6/15/2010 |
| Skid/Equipment Number: | SKID0204 | MAWP: | 1340 PSI 9239.032 KPa |
| Service: | Sweet | Temperature: | 100 F 37.78 C |
| Status: | In Service | Outstanding NCRs: | 0 |

General:

The vessel was blinded, steamed, opened and cleaned for internal inspection as part of the 2007 T/A. Vessel found with a large amount of sludge and sand upon opening.

The 36 month interval is entered to show due for next internal inspection in 2010 - next turnaround year. Recommend cleaning every 3 years.

PSV's at this facility are currently out for servicing at Tyco Valve in Grande Prairie.

Vessel is post weld heat treated. RT=1. CA=.0625".

Ultrasonic Corrosion Survey was last completed in 2006 with all thickness readings above ASME Section VIII, Div. 1 code requirements at time of inspection. Report is in database.

Vessel in sweet service and could move to a longer internal inspection interval according to the ABSA Guidelines, but vessel requires cleaning on a 3 year interval.

Safety Valves:

PSV [MWS64095](#) Protects the Shell Of the Vessel. Set Pressure of 1340 PSI / 9239.032 KPa.

Capacity: 20404SCFM / 577.78m3/min

| | | | |
|---------------------------|--------------------------------|-------------------------|-----------------------|
| Status: In Service | Examination Methods: VT | Access: Internal | Cleaning: Good |
|---------------------------|--------------------------------|-------------------------|-----------------------|

External:

Vessel is horizontal, mounted on a skid, and indoors. All visible shell surfaces and nozzles appear in good condition. Name plate is intact and legible. Vessel supports, foundation, electrical grounding and external coating appear good. 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. 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:

Vessel not internally coated.

Operations indicated there was a great deal of sludge and sand on bottom upon initial opening.

Internals cleaned and washed.

All internal vessel shell and head surfaces were clean for inspection and evidenced no corrosion, pitting, deterioration or defects.

Ultrasonic Corrosion Survey (2006) confirmed shell and head sections at or above listed nominal wall thickness.

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

Weir, flow divertor, vortex breakers are all intact and sound. Fillet welds are good.

The nozzles are clear.

Demister - approx. 24" diameter round type . Was not removed, but appears clean and aligned as seen from underneath. Support assembly, expanded metal, 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 is nearly seized. Has a threaded connection for grease nipple, but none installed.

Recommendations:

- after manway closure, remove manway davit arm, grease and re-install in preparation for next opening.

- install grease nipple.

The above recommendations were reviewed with operations prior to closure.

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: 36

Inspector: Duane Paetkau Cert #000087 **Date:** 6/15/2007

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-8047 which expires in 12/06/05 have been done.

Chief Inspector: Jim Damiani Cert 00037
Date: 6/27/2007

[\[Back To Start Page\]](#) [\[MtnWest.Ca\]](#)