



101, 56 Cuendet Industrial Way, Sylvan Lake, AB T4S 0B6

## Field Inspection Report - Long\_Run

### 172957\_06/12/2013\_VT\_Internal

Vessel Number	172957	Vessel Name	NGL BULLET	Province	Alberta
District	TREVOR J'S FIELD	LSD	05-10-033-26W4	Location	WIMBORNE
Method	VT	Access	Internal	Cleaning	Good
Inspection Date (mm/dd/yyyy)	06/12/2013	Inspection Interval (months)	120	Next Inspection (mm/dd/yyyy)	06/12/2023
CRN	9156.3214	Skid Number	NO	Service	Sweet
Internal Access	YES	Internal Coating	No	Status	IN SERVICE
MAWP (PSI)	250	MAWP (kPa)	1723.7	Outstanding NCRs	0
MAWT (°C)	66	MAWT (°F)	150.8		

### General

The vessel was blinded, opened and cleaned for internal inspection as part of the 2013 T/A. Vessel is outdoors.

The 4 PSV's protecting the vessel were replaced in 2013 during this T/A. In sweet service.

RT-4

PWHT - No.

CA = .00"

See attached pictures

### Safety Valves

PSV P95925 Shell side. Set pressure: 250 PSI / 1723.7 KPa. MAWP: 250 PSI / 1723.7 KPa. Capacity: 10203 SCFM / 288.92 m3/min.

PSV P95926 Shell side. Set pressure: 250 PSI / 1723.7 KPa. MAWP: 250 PSI / 1723.7 KPa. Capacity: 10203 SCFM / 288.92 m3/min.

PSV P95927 Shell side. Set pressure: 250 PSI / 1723.7 KPa. MAWP: 250 PSI / 1723.7 KPa. Capacity: 10203 SCFM / 288.92 m3/min.

PSV P95928 Shell side. Set pressure: 250 PSI / 1723.7 KPa. MAWP: 250 PSI / 1723.7 KPa. Capacity: 10203 SCFM / 288.92 m3/min.

### External Condition

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.



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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.

Assign inspection interval.

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#### Internal Condition

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Vessel not internally coated.

All internal vessel shell, head and nozzle surfaces were clean for inspection and evidenced no hydrogen blistering. Mill scale is mostly intact.

The northwest head section has an arc of pitting.

The southeast head section has an arc of pitting.

Head nominal thickness is .551".

UT was performed externally on these areas. UT results reveal there is minimal head loss on the northwest head section and head loss to a maximum of .049" on one spot on the southeast head as per MWS NDE report A# 172957 C31033 06-12-13.

Widely scattered pitting API 510 paragraph 5.7.e

Widely scattered pits may be ignored as long as the following are true:

1. No pit depth is greater than one-half the vessel wall thickness exclusive of the corrosion allowance.
2. The total area of the pits does not exceed 7 square inches (45 square centimeters) within any 8-inch (20-centimeter) diameter circle.
3. The sum of their dimensions along any straight line within the circle does not exceed 2 inches (5 centimeters).

No pit depth is greater than one-half the vessel wall thickness (exclusive of the corrosion allowance). The total area of the pits does not appear to exceed 7 square inches (45 square centimeters) within any 8-inch (20-centimeter) diameter circle and meets the requirements of API 510 for widely scattered pitting.

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

Fillet welds are good.

The nozzles are clear.

Manway, cover, and gasket faces are in good condition and working order.

Wet Flourescent Mag Particle Inspection was performed on all internal welds. The truck equalization piping bracket has linear indications but were deemed non rejectable. All other welds are acceptable. See MWS NDE Report A# 172957 C31033 06-12-13.

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#### Recommendations

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Maintain "on stream" Ultrasonic Corrosion survey monitoring of the vessel components and associated piping with special attention to the areas of pitting on the northwest and southeast head sections.  
Internally inspect again in 10 years.

Suitable to be returned to Service	Yes	Suggested Inspection interval (Months)	120

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Repairs are still required	No	
Glen Boettger Cert 000345 Inspector	Signature	06/19/2013 Date (mm/dd/yyyy)

#### Pictures

	
CRW 172957 A NUMBER 06-12-13.JPG	CRW 172957 NAMEPLATE 06-12-13.JPG
	
CRW 172957 LPG BULLET 06-12-13.JPG	CRW 172957 NORTH HEAD PITTING 06-12-13.JPG