

Pressure Vessel Inspection Report

Equipment #: 62037651

Description: South Inlet Separator (North Building)

Serial# 2559

Location: 6-34-50-27 W3 (Cost Center # 72325)

Notification #:

Inspection Date: July 23, 2009

Inspected by: Les Deverill

INSPECTION SUMMARY:

Vessel remains in fair condition from an external visual review. Process Piping, as outlined below, needs to be evaluated. (Note: Vessel is online)

RECOMMENDATION:

- The foundation & building in which the vessel is located, really needs to be repaired, to maintain a suitable operating environment & to ensure no one steps through the floor.
- Conduct an engineering review to ensure adequate thickness of associated piping.

REPAIRS COMPLETED:

NONCOMPLIANCES:

EXTERNAL INSPECTION:

- Vessel in fair condition with no changes to previous inspection.
- The vessel building is deteriorating quickly, the wall where the door frame is contained is corroded away from the floor and the floor is extremely corroded. Floor perforations may be the next order of business.
- Inlet & Outlet Drain Elbows are exhibiting low measurements on the outside radius of the elbows (@ 0.177" & 0.161" respectively). Unless there is an engineering spec break, the design thickness for these elbows should be 0.436" (XXS). (Nozzles on drawing indicate XXS)

EXTERNAL NDE:

- See Attached data sheet

INTERNAL INSPECTION:

- No Access

INTERNAL NDE:

- No Access

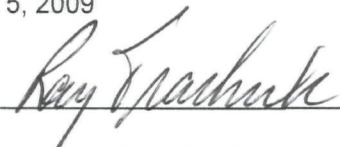
INSPECTION INTERVAL:

- 48 months



Les Deverill, Aug 5, 2009

APPROVED BY:



DATE:

2009-08-04

Ray Trachuk

Pressure Vessel Inspection Report

#5 – Mid Shell	0.625"	0.637" (16.2 mm)	0.634" (16.1 mm)
#6 – Bottom Knuckle	0.625"	0.809" (20.5 mm)	0.841" (21.4 mm)
#7 – Bottom Head	0.625"	No Access	NA
#8 – Outlet Drain El	0.436"	0.177" (4.5 mm)	NA
#9 – Inlet El	0.436"	0.161" (4.1 mm)	NA

Data Assessment indicates no major changes in wall thickness measurements since 2004, however the outlet drain elbow (2") and inlet elbow (2") are thin. There could be a spec break at the valves, but the measurement is low even for Schd 40 -- 2" piping fittings.

CERTIFIED BY

RJV GASFIELD SERVICE LTD.

VEGREVILLE, ALBERTA
PHONE (403) 632-7774

101
W
RT-2

2916923

UNIT NAME

VERT. 2 PHASE SEPARATOR

C. R. NO.

SERIAL NO.

K2422.23

2559

M. A. W. P.

HYDRO TEST

DESIGN TEMP.

720 p.s.i.

1080 p.s.i.

100 °F

4965 Kpa

7448 Kpa

38 °C

CORR. ALLOW.

HEAT TREATMENT

SIZE

3.17 mm

NIL

610 X 1525 mm

SHELL MAT'L

HEAD MAT'L

WEIGHT

SA-516-70

SA-516-70

592 Kg

SHELL THICK.

M. D. M. T.

15.87 mm

HEAD THICK.

DATE MFG.

-20 °F

15.87 mm

94-03

-29 °C

Pressure Vessel
27373
OR DISFIGURE



DENNIS Mc

PAGE _____ OF _____

FILE _____ BY _____ DATE _____

PROJECT _____ SUBJECT _____

6-34.50.27

July 23/09

NORTH BLDG - SOUTH INLET SEP

SOB # 27373

A# 2916923

TMLS

COATING ✓

~~TOP~~ TOP N KNUCKLE #1 769

SKIRT ON SK MTD.

TOP OUT NOZZ #2 462

OK.

2
SCH 40

TOP WEST KNUCK #3 751

FLOOR CORRODED WALL SEP FROM FLOOR IN PLACES.

PSV OUTLET NOZZ #4 480

UPPER SHELL #5 637

SPECIALLY NEAR DOOR.

BOTT KNUCK #6 809

BOTT HO #7 NO ACCESS

(ARMS TO FAT)

BOTT DRAIN EL #8 177

INLET EL #9 161

VESSEL ONLINE