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SEPARATOR INSPECTION REPORT

Inspection Report

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Notification Number 6033782 Work Order 6035032
 Notification Desc SEPARATOR, 100 T/S INLET WTRFLOOD Maintenance Plan QPSEPAR5337
 Tasklist Operation 5Y Code Inspection Separator - Sweet Se

Equipment Static Data

Equipment Number 62045567 Equipment Description SEPARATOR, 100 T/S INLET WTRFLOOD
 Class SEPARATOR Tag Number 0015020470140
 Serial Number 0196406 Year Built
 Manufacturer WATERFLOOD Location Description HUSKY 15C RIVERCOURSE 15-2
 Location 0015020470140 PM Activity Code
 Provincial Number Equipment Status In Service - Fully Utilized
 Status Codes NOPR ORAS

CRN Number A4059.32 Code Stamp
 Design Flow / Capacity Design Flow Mass Design Max Temp 20 DEGF
 Fluid Description GAS Fluid Service SWEET Head Corr Allowance
 Head Material Head Thickness Housed Flag
 Insulation Exists N Insulation Thickness Internal Coating Exists N
 Internal CoatingCladding Type Internals Corr Allowance Internals Manufacturer
 Internals Material Internals Model Internals Removable
 Internals Size Internals Type Length 1.20 M
 MDMT - Min. Design Metal Temp Nozzle ANSI Rating Nozzle Corr Allowance
 Nozzle Material Nozzle Thickness Nozzle Type
 Number of Inspection Ports Number of Manways Number of Phases
 Old system number Orientation VERTICAL Packaged Flag
 Packaged Portable Flag Packaged Stationary Flag Painted or Primed Y
 Shell Corr Allowance Shell MAWP 260 PSI Shell Material
 Shell Thickness Skidded Flag Stress Relief
 Support type SKIRT Vessel Diameter 8.0 " Volume
 X-Ray

PRD Static Data

Equip ID	Location	Size		Set Pressure	Capacity	Manufacturer	Serial Number	Model Number	Next Service Date
		Inlet	Outlet						

Process Data

Product Description GAS Fluid Service ☒ Sweet ☐ Sour PPM
 Operating Pressure KPA Operating Temperature °C

Pressure Test

Test Completed ☐ Yes ☒ No Test Acceptable ☐ Yes ☐ No Test Report #

PSV Data

Tag/Serial No.	Location	Size		Set Pressure	Capacity	Model / Type	Service Date
		Inlet	Outlet				

62045571	PIPING	1 IN	1 IN	260 PSI		T-8200-1	2003-05-20

Inspection History

Inspected By RAY Inspection Date 2005.04.06

Inspection Summary

Inspections performed indicate that the scrubber is in fair condition and suitable for continued service however concerns with the PSV were noted.

Recommendations

Continue the UT thickness survey at next scheduled inspection.
An internal inspection should be performed at next scheduled inspection.
The PSV protecting the scrubber should be serviced.

Repairs Completed**Equipment Status**

Integrity Status ☒ Suitable for Continued Service ☐ Immediate Repairs Required ☐ Replace
☐ Future Repairs Required
 Inventory Status ☒ In Service - Fully Utilized ☐ Idle ☐ Surplus ☐ Scrap

QA Activities

☒ Leave As-Is ☐ Weld Overlayed ☐ Part / Component Replaced
☐ Equipment Replaced ☐ Grind Dressed ☐ Patch Installed
☐ MAWP Derated ☐ Coating - Cleaned & Patched ☐ Coating - Removed & Replaced
☐ Defect Removed & Rewelded ☐ Part Cleaned ☐ Lapped & Dressed
☐ Epoxy Patched

Noncompliances or Inspection Deficiencies Issued

IDR050406RDT6c issued.

External Visual Inspection

The vessel is painted and is in good condition with no notable corrosion being found.
 The nameplate, piping, bolting and external attachments are in good condition.
 The gauges are clear and in good condition.
 The vessel is securely attached to the floor.
 The overall condition of this vessel is good.

External NDE Examination

UT thickness tests were performed on the scrubber's shell with no indication of any metal loss being identified. See attached sketch for thicknesses found and approximate locations of tests.

Internal Visual Inspection

An internal inspection was performed.
 cc: Malcolm Dixon
 Al Hinz

Internal NDE Examination**Data Integrity****Inspection Interval****Inspector Certification**

I, the undersigned certify that the above equipment has been inspected in accordance with the assigned task list and that statements within this report are correct and represent inspection findings.

Inspector Name RAY Inspector Signature Ray Orachuk
 Inspection Company HUSKY ENERGY Date 2005-04-06

Lead Inspector's Acceptance & Schedule Confirmation

Lead Inspector _____ Signature E. Rye Date 05/04/15
 Vessel Inspection Interval _____ ☒ Leave as-is / Change to: _____

PSV Inspection Interval _____ ☐ Leave as-is / Change to: _____

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INSPECTION DEFICIENCY REPORT**FACILITY:** Rivercourse Gas**DATE:** 2005-04-06**REPORT #:** IDR050406RDTc**STATIC DATA**

Prov. Reg. # _____ CRN: A4059.23 Serial # 0196406
Equipment Location (LSD): 15-2-47-1W4 Equipment ID #: SAP# 62045567
Equipment Description: Inlet Separator Service: Gas Sweet ☐ Sour ☐
Manufacturer: Waterflood Year Built: 2001
MAWP 260 kPag / psi @ 200 °C / F MDMT: _____ °C / F Capacity: _____ m3

IDENTIFIED DEFICIENCIES

The carseal on the adjustment cap is broken.

RECOMMENDED ACTION

☐ LEAVE "AS-IS" ☒ PERFORM REPAIR ☐ PERFORM ALTERATION ☐ REPLACE
UNIT

COMMENTS: Have the PSV serviced and the adjustment cap resealed.

INSPECTION PERFORMED BY: ☒ QUALITY INSPECTOR ☐ LEAD INSPECTOR ☐ AGENCY
PRINT NAME Ray Trachuk SIGNATURE *Ray Trachuk* DATE 2005-04-06

REPORT ISSUED TO: Leon Yakiwchuk Date: 2005-04-06

Completion Verified By: *Leon Yakiwchuk* Date: *Jul 29/05*

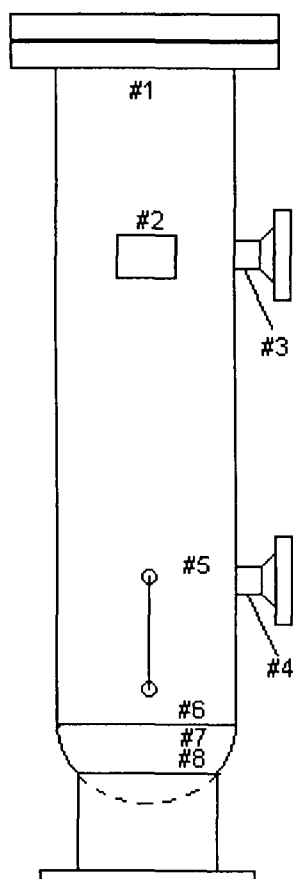
Notification of Completion sent to Inspector: *[Signature]* Date: *Jul 29/05*

Office Use Only:

Entered to Electronic Database By: *[Signature]* Date: _____

Note: Completed Forms are to be Faxed or sent to Calgary Technical Services Attn: Greg Murray, Fax: 403 750 1960
Calgary Tech Services, 1443 NWCP, 707, 8th Avenue SW, Box 6525, Station D Calgary Alberta, T2P 3G7

Date 2005-04-06 Location: 15-2-47-1W4 Contact Al Hinz AFE/Cost Center 77275
 Equipment # 62045567 Provincial # _____ CRN A4059 23 S/N 0196406
 Description Inlet Separator Head Material SA 234 WPB Thk 500" Shell Material SA 106B Thk 500"
 Manufacturer Waterflood Year Built 2001 CA 0625" Size 8" x 60"
260 PSI @ 200 F PSV - MAKE Taylor S/N 82344 35 MODEL T-8200-1
 HUSKY I.D. 3237 UV NB SIZE 1 " x 1 " SET 60 PSI _____ SCFM,CFH DATE 2003-05-20
 Vessel SAP # 62045567 PSV SAP# 62405571



2005- 04-06

- #1 - .521"
- #2 - .527"
- #3 - .216"
- #4 - .223"
- #5 - .519"
- #6 - .526"
- #7 - .540"
- #8 - .505"