Pressure Vessel External Visual Inspection Report



| Organization: | Husky | Inspection Date: | 22/11/2011 12:00:00AM |
|---------------|-----------------|------------------|-----------------------|
| Plant: | Heavy Oil & Gas | Equipment ID: | 62066206 |
| | | Asset No: | 62066206 |
| | | System: | N/A |
| | | Operating Unit: | L7-02-007 Morgan |

Background

| Description: | TREATER, H-100 |
|--------------|----------------|
| Asset Type: | Treater |

Inspection

| Inspector: Ray Trachuk Company: Husky Energy | Insulated: | N | |
|--|------------|---|--|
|--|------------|---|--|

External Location Categories

| Barrier Penetrations: 0 Damaged Insulation: 0 Vessel Supports: 0 Insulation Rings: | 0 |
|--|---|
|--|---|

Inspection Comments

| ID · | Description | Condition | Location | NCR | Comments | |
|------|------------------------------------|-----------|----------|-----|--------------------------------|--|
| V7 | Heads | Fair | | | Acceptable | |
| V13 | Gauge/Site Glass | Fair | | | Acceptable | |
| V14 | Shell | Fair | | | Acceptable | |
| V22 | Foundation | Fair | | | Acceptable | |
| V23 | Anchor Bolts | Yes | | | Acceptable | |
| V24 | Saddle/Skirt | Fair | | | Saddles - Acceptable | |
| V31 | Connections Other (Please explain) | Fair | | | Associated Piping - Acceptable | |
| V41 | Insulation Other (Please explain) | Fair | | | Acceptable | |

Print date/time: 11/22/2011 1:54:58PM Page 1 of 3

Pressure Vessel External Visual Inspection Report

Inspection Summary

An external and internal visual inspection was performed to verify the vessels integrity. The treater was found to be generally in fair condition although immediate repairs to the fire tubes were required.

The vessel is totally insulated with the insulation and cladding found to be in acceptable condition.

The nameplate, piping, bolting and external attachments are in fair condition.

The gauges are clear and in good condition.

The saddles and supports are in good condition.

See attached Internal Visual Inspection report for additional details and recommendations.

cc: Lyle Nerbas

Pressure Vessel External Visual Inspection Report

| Inspection Planning | | | | | | | | |
|---|--------------------------|--|--|--|--|--|--|--|
| Date of Inspection: | Date of last Inspection: | Date of Next Inspection: | | | | | | |
| The signature below certify that the above is a true report of the inspection / test of the equipment specified and consider fit for service until the date of next inspection. | | | | | | | | |
| Competent Inspector: | | Report Generation Date: | | | | | | |
| Reviewed and Accepted by: | | | | | | | | |
| Next Inspection Date: 2016 10 - 0 Approved by: | | | | | | | | |
| Signature: | ay Machul | / Date: \(\overline{ | | | | | | |
| Signature: | | Date: | | | | | | |

Pressure Vessel Internal Visual Inspection Report



| Organization: | Husky | Inspection Date: | 07/10/2011 12:00:00AM | |
|---------------|-----------------|------------------|-----------------------|--|
| Plant: | Heavy Oil & Gas | Equipment ID: | 62066206 | |
| | | Asset No: | 62066206 | |
| | | System: | N/A | |
| | | Operating Unit: | L7-02-007 Morgan | |

Background

| Description: | TREATER, H-100 |
|--------------|----------------|
| Asset Type: | Treater |

Inspection

| Inspector: | Ray Trachuk | Company: | Husky Energy | Internal Lining/Coating: | N |
|------------|-------------|----------|--------------|--------------------------|---|

Inspection Comments

| ID | Description | Condition | Location | NCR | Comments | |
|-----|----------------------------------|-----------|----------|-----|--|--|
| V7 | Heads | Fair | | | Acceptable | |
| V8 | Welds | Fair | | | Acceptable | |
| V9 | Nozzles | Fair | | | Acceptable | |
| V10 | Shell | Fair | | | Several gouges in the vessel shell were observed - left as is. | |
| V11 | Gasket Surfaces | Fair | | | Acceptable | |
| V21 | Internals Other (Please explain) | Fair | | | Acceptable | |
| V31 | Tubes | Poor | | E | Firetube was badly bowed and require immediate repair. | |

Print date/time: 11/22/2011 2:26:51PM Page 1 of 3

Pressure Vessel Internal Visual Inspection Report

Inspection Summary

Generally the internal surfaces and components of the Flash Treater were found to be in fair condition although one leg on the firetube was found to be badly bowed and required immediate repairs. The leg was replaced by L& L Oilfield of Lloydminster prior to recommissioning the Flash Treater.

The fire tube flange, throat flange and fire tube throat are in fair condition. There did not appear to be any distortion on the flange faces at time of inspection. The gasket surfaces are acceptable.

The internal piping and supports are in acceptable condition.

The internal surfaces of the vessels are in fair to good condition with no pitting observed, however there were several gouges found in the vessel shell. These were all found near the circ seams of the vessel and are believed to have been caused from "dogging" (aligning of shell plates) the vessel shell during fabrication. These gouges were left as is.

Inspect the vessel in five years.

cc: Lyle Nerbas

Pressure Vessel Internal Visual Inspection Report

| Inspection Planning | | | | | | | | |
|---|--------------------------|-------------------------|------------|--|--|--|--|--|
| Date of Inspection: | Date of last Inspection: | Date of Next Ins | spection: | | | | | |
| The signature below certify that the above is a true report of the inspection / test of the equipment specified and consider fit for service until the date of next inspection. | | | | | | | | |
| Competent Inspector: | | Report Generation Date: | | | | | | |
| Reviewed and Accepted by: | | | | | | | | |
| Next Inspection Date: 2016-7 | 0-07 | | | | | | | |
| Approved by: | | | | | | | | |
| Signature: | y frankesk | Date: | 2011-11-22 | | | | | |
| Signature: | | Date: | | | | | | |

Print date/time: 11/22/2011 2:27:00PM

EquipmentID: 62066206

Page 3 of 3



Repair Request by

PRESSURE EQUIPMENT REPAIR / ALTERATION PROCEDURE

Marie Lafontaine

Form : QR-18.2 Page 1 of 3 REV 2

Yes

No

| Plant Name More | gan Battery | Location (| LSD) | 10-34-0 |)51-04W | /4 Job | # 62066206 | -10/06/2011-R1 | |
|-------------------------|---|------------------|---------------------------------------|---|---------------|----------------------|---------------|----------------|--|
| Equipment Descrip | tion Non-Code | Treater Firetube | Eq | # 6 | 2066206 | 6 A# | non-code | | |
| Manufacturer | Colt | | Sei | rial# F | l-100 | CRN | A5889.23 | | |
| Work to be Perforn | ned is a X | Routine Repair | | Non I Repa | Routine ir | | Alteration | | |
| Authorized Inspect | Authorized Inspector Acceptance n/a – non-code vessel | | | | | | | | |
| A, I. Location | | Name Phone | 4 | · · · · · · · · · · · · · · · · · · · | | Signature A. I. I | nspection wai | /ed Date | |
| Contractor Name 8 | | L&L Oilfield Mai | | *************************************** | | | | | |
| Contractor Quality | | AQP-2677 | ` | iry Date | 2013-0 | | | | |
| Work Start Date | 2011-10-06 | Contact | Rick | Hutchins | son | Phon | (780)205-0 | 0350 | |
| Code of Design | ASMEI | ASME IV | ASM | E VIII Div | 1 | | | | |
| Shell Side Process F | luid Oil Emuls | ion | · · · · · · · · · · · · · · · · · · · | x Swe | eet | | our | Low Temp | |
| Tube Side Process F | luid n/a | | | Swe | et | | our [| Low Temp | |
| Shell Side Design | MAWP 1 | 15psi @ | <u> </u> | 200F | | MDM | Т | | |
| | RT-1 RT | -2 RT-3 | RT-4 | PWHT | | es X No | Test Press | n/a | |
| Tube Side Design | MAWP | n/a KPa | g @ | | °C | MDM | Τ | °C | |
| | RT-1 RT | -2 RT-3 | RT-4 | PWHT | 7 Y | es No | Test Press | | |
| Ws Ws | | | | | | | | | |
| | | | TERIA | | | | | | |
| Item | Description | | Size | Mate | rial & Gr | ade S | ch / Rating | Qt'y | |
| 1 18" pipe for | firetube leg | 18 | " OD | SA | -106 Gr E | 3 Sch | STD (0.375") | As req'd | |
| REPAIR PROCED | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | | | | | | | |
| The following Husky | | | iremen | | | re | | | |
| Spec Number PS-MW-01 | Nelding | ame | | Speci | Number | | Name | | |
| I O-IVEV V-U I | vveiding | | - - | *************************************** | ~~~~ | | | | |
| | | | 13/4 | | | | | | |

Accepted by Operations Superintendent



PRESSURE EQUIPMENT REPAIR / ALTERATION PROCEDURE

Form: QR-18.2 Page 2 of 3 REV 2

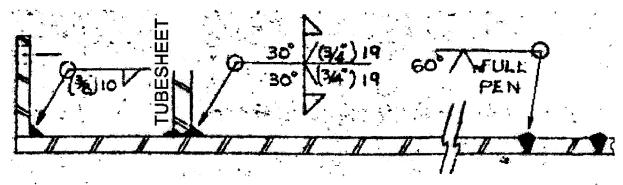
(Additional Detailed Procedure Attached) Repair Procedure No The treater was down for turnaround. The firetube was sandblasted and brought to L&L Oilfield Maintenance. The burner leg was

bowed with hot spots and will be replaced through the flange to 1" past an existing circ weld. IRIS NDT is scheduled to perform 100% MPI on welds. If cracking is found stop the repair and contact Marie to reassess.

The firetube leg is to be repaired as follows:

Weld Joint Design

Weld joint design for replacement shall be in accordance with the original detail and dimensions:



Firetube Preparation

- 1) Remove the firetube from the tubesheet weld by suitable methods such as air-carbon arc gouging, and cut out the degraded area of pipe 1 inch beyond the existing circ weld repair on the leg.
- Bevel dress the firetube and tubesheet per original detail. Parent material to be cleaned to shiny metal at weld and adjacent 50mm minimum. Perform MPI on prepared surfaces (below).

Welding

Assemble firetube per original dimensions. Weld using L&L's WP L&L-15 Rev 1 (SMAW; F3 E6010 and F4 E7018-1): Circ weld on leg:

- Run first weld pass. Perform MPI on first weld pass (below).
- Complete filling weld. Perform MPI and RT on final cap (below).
- 1) Run first weld pass. Perform MPI on first weld pass (below). Complete filling weld. Perform MPI on final pass.

Inspection & Testing

- Perform MPI on prepped bevel, root pass and final cap; acceptance criteria to ASME Section VIII, Div 1; Appendix 6.
- Perform 100% RT on circ weld; acceptance criteria in accordance with ASME Section VIII, Div 1 UW 51.
- All welds are to be visually inspected.
 - All welds to be cleaned of slag and other deposits prior to inspection.
 - Undercut exceeding 1/64" shall be ground out and re-welded.
 - Porosity open to the surface shall be ground out and re-welded.



Form: QR-18.2 Page 3 of 3

Page 3 of 3 REV 2

PRESSURE EQUIPMENT REPAIR / ALTERATION PROCEDURE Activity Responsibilities

| The fe | ollowing tasks are the Responsibility of | HUSKY | CONTRACTOR | Commei | nts | |
|--|--|--|--|--|--|--|
| Design Submission to Al | | . [| | N/A | * | |
| Repair Alteration Procedure | | | X | | / | |
| Material Control | | | X | ************************************** | | |
| | ling Control | | X | | | |
| | * | | <u></u> | | | |
| NDE | | | X | Per provided repair | procedure | |
| | Treatment | | | n/a | · | |
| Leak | Test | X | | Service test | | |
| , | DING REQUIREMENTS | | | | niu mai in a cana a | |
| Weld | ling Procedure Specification Number | L&L-15 R | ev 1 | | | |
| Min | Min Preheat Temp 10°C PWHT Required Yes (see PWHT Instruction Sheet) X No | | | | | |
| LEAK | TEST REQUIREMENTS | | | | | |
| | Hydro Pneum | atic X S | ervice Altern | ate (see Alternative Tes | t Report) | |
| | Required Hydrotest Pressure | | | | | |
| PROC | EDURE PREPARED BY | | 4 | | | |
| Ma | rie Lafontaine 780-205-4820 | | 4 Dallo | | 2011-10-06 | |
| Husk | Print Name Phone y Field Contact Lyle Nerbas | | Signature Phone # | 780-205-2375 | Date | |
| ATTA | CHMENTS | MINING. | | | | |
| | | | | | | |
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10-34-51-4W4M MORGAN BATTERY 18" FIRE TUBE REPAIR

