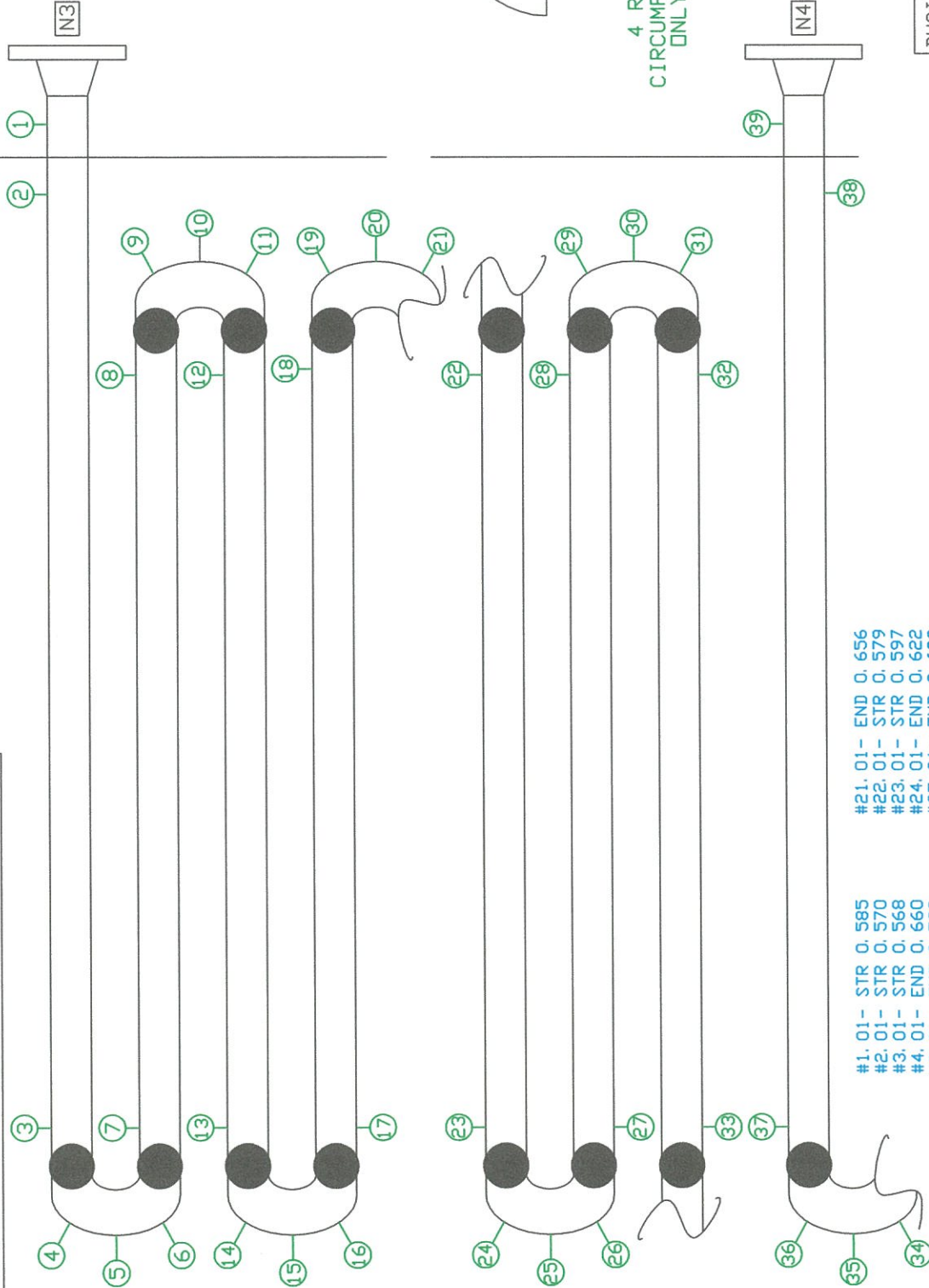


EQUIP RETIREMENT DATE: 4/7/2024
NEXT INSPECTION IS DUE: 3/7/2012

NAME/UNIT INFO	
MFG	TARA OILFIELD SERVICES LTD.
SERIAL NUMBER	05-129C
ALBERTA REG. #	537501
DATE BUILT	2006
DESIGN P & T	5000 psi @ 392°F
NOTE	CRN # T5045.2

DM-401



- #1. 01- STR 0.585

#2. 01- STR 0.570

#3. 01- STR 0.568

#4. 01- END 0.660

#5. 01- END 0.588

#6. 01- END 0.622

#7. 01- STR 0.602

#8. 01- STR 0.605

#9. 01- END 0.648

#10. 01- END 0.599

#11. 01- END 0.632

#12. 01- STR 0.590

#13. 01- STR 0.557

#14. 01- END 0.737

#15. 01- END 0.593

#16. 01- END 0.653

#17. 01- STR 0.597

#18. 01- STR 0.600

#19. 01- END 0.640

#20. 01- END 0.609
- #21. 01- END 0.656

#22. 01- STR 0.579

#23. 01- STR 0.597

#24. 01- END 0.622

#25. 01- END 0.603

#26. 01- END 0.661

#27. 01- STR 0.574

#28. 01- STR 0.580

#29. 01- END 0.602

#30. 01- END 0.611

#31. 01- END 0.622

#32. 01- STR 0.603

#33. 01- STR 0.593

#34. 01- END 0.684

#35. 01- END 0.595

#36. 01- END 0.596

#37. 01- STR 0.628

#38. 01- STR 0.596

#39. 01- STR 0.599

CAL - 2 PT , 500 - , 750"

BUSINESS UNIT	PURE ENERGY
EQ/CIRC ID #	LH-0011-C2
EQUIP NAME	LINE HEATER (WITH 2 COILS)
DWG #	LH-0011-C2

DESC: COIL 2 ON LINE HEATER
DWG#: LH0011-C2-1.01-39.01

Corrosion Monitoring Equipment ID Analysis Report

UltraPIPE Inspection Data Management
Hawkeye Inspection, LLC
1595 So. Hwy 150, Suite F
Evanston, WY 82930 307-789-3540

Report Date: 04/22/2011

(Report in Inches, Corrosion Rates in MPY)
Analysis: Straight Line

Unit: LH-U011
Eq/Circ ID: LH0011-C2
Eq Type: VESSEL
Class:
CM RBI:
Design Code: B31.3

Flange Rating: 5295 lb/in²
Design Pressure: 5000 lb/in²
Design Temperature: 392 °F

Description: COIL 2 ON LINE HEATER; SN:05-129C

Summary: Group Name: Insp. Due Date = 03/01/2012
Pred. Ret. Date = 04/01/2024

Group Description:
RCR = 0.1 MPY
Rem. Life (from last survey 03/08/2011) = 13.1 yrs

O.C.A. Status: No
Total Caution TMLs = 0

TM L No	Location	Ctn TML	First Survey Thick Nt	First Date	Previous Survey Thick	Previous Date	Last Survey Thick	Last Date	Shrt Term Rate	Long Term Rate	Best Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TM L Retirement Date	TM L Inspection Date
1.01	STR	N *	0.600 NM	02/27/2006		N/A	0.585	03/08/2011	N/A	3.0	N/A	3.0	0.538 U	3.0	01/06/2027	03/07/2012
2.01	STR	N *	0.600 NM	02/27/2006		N/A	0.570	03/08/2011	N/A	6.0	N/A	6.0	0.538 U	6.0	09/06/2016	03/07/2012
3.01	STR	N *	0.600 NM	02/27/2006		N/A	0.568	03/08/2011	N/A	6.4	N/A	6.4	0.538 U	6.4	12/13/2015	03/07/2012
4.01	END	N	0.600 NM	02/27/2006		N/A	0.660	03/08/2011	N/A	0	N/A	0	0.537 U	2.0	09/06/2072	03/07/2012
5.01	END	N *	0.600 NM	02/27/2006		N/A	0.588	03/08/2011	N/A	2.4	N/A	2.4	0.538 U	2.4	03/22/2032	03/07/2012
6.01	END	N	0.600 NM	02/27/2006		N/A	0.622	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	06/07/2053	03/07/2012
7.01	STR	N	0.600 NM	02/27/2006		N/A	0.602	03/08/2011	N/A	0	N/A	4.2	0.538 U	2.0	06/07/2043	03/07/2012
8.01	STR	N	0.600 NM	02/27/2006		N/A	0.605	03/08/2011	N/A	0	N/A	0.6	0.538 U	2.0	12/06/2044	03/07/2012
9.01	END	N	0.600 NM	02/27/2006		N/A	0.648	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	06/07/2066	03/07/2012
10.01	END	N	0.600 NM	02/27/2006		N/A	0.599	03/08/2011	N/A	0.2	N/A	0.2	0.538 U	2.0	12/06/2041	03/07/2012
11.01	END	N	0.600 NM	02/27/2006		N/A	0.632	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	06/07/2058	03/07/2012
12.01	STR	N *	0.600 NM	02/27/2006		N/A	0.590	03/08/2011	N/A	2.0	N/A	2.2	0.538 U	2.0	06/07/2037	03/07/2012
13.01	STR	N *	0.600 NM	02/27/2006		N/A	0.557	03/08/2011	N/A	5.6	N/A	8.6	0.538 U	8.6	06/13/2013	03/07/2012
14.01	END	N	0.600 NM	02/27/2006		N/A	0.737	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	12/08/2110	03/07/2012
15.01	END	N *	0.600 NM	02/27/2006		N/A	0.593	03/08/2011	N/A	1.4	N/A	1.4	0.538 U	2.0	12/07/2038	03/07/2012
16.01	END	N	0.600 NM	02/27/2006		N/A	0.653	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	12/06/2068	03/07/2012
17.01	STR	N	0.600 NM	02/27/2006		N/A	0.597	03/08/2011	N/A	0.6	N/A	0.8	0.538 U	2.0	12/06/2040	03/07/2012
18.01	STR	N	0.600 NM	02/27/2006		N/A	0.600	03/08/2011	N/A	0	N/A	1.0	0.538 U	2.0	06/07/2042	03/07/2012
19.01	END	N	0.600 NM	02/27/2006		N/A	0.640	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	06/07/2062	03/07/2012
20.01	END	N	0.600 NM	02/27/2006		N/A	0.609	03/08/2011	N/A	0	N/A	0	0.538 U	2.0	12/07/2046	03/07/2012

UltraPIPE Inspection Data Management
Hawkeye Inspection, LLC
1595 So. Hwy 150, Suite F
Evanston, WY 82930 307-789-3540

Report Date: 04/22/2011

(Report in Inches, Corrosion Rates in MPY)
Analysis: Straight Line

Unit: LH-0011
Eq/Circ ID: LH0011-C2
Eq Type: VESSEL
Class:
CM RBI:
Design Code: B31.3

Flange Rating: 5295 lb/in²
Design Pressure: 5000 lb/in²
Design Temperature: 392 °F

Description: COIL 2 ON LINE HEATER; SN:05-129C

Summary: Group Name: Insp. Due Date = 03/07/2012
Pred. Ret. Date = 04/07/2024

Group Description:
RCR = 0.1 MPY
Rem. Life (from last survey 03/08/2011) = 13.1 yrs

0 C.A. Status: No
Total Caution TMLs = 0

TML No	Location	Ctn	First Survey Thick	First Survey Nt	First Date	Previous Survey Thick	Previous Survey Nt	Previous Date	Last Survey Thick	Last Survey Nt	Last Date	Shrt Term Rate	Long Term Rate	Best Rate	Max Hist CR	Retirement Thickness	Rep TML CR	Retirement Date	Next Inspection Date
21.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.656		03/08/2011	N/A		0	N/A	0	2.0	06/07/2070	03/07/2012
22.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.579		03/08/2011	N/A		4.2	N/A	4.2	4.2	01/23/2021	05/07/2012
23.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.597		03/08/2011	N/A		0.6	N/A	2.6	2.0	12/06/2040	03/07/2012
24.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.622		03/08/2011	N/A		0	N/A	0	2.0	06/07/2053	03/07/2012
25.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.603		03/08/2011	N/A		0	N/A	0	2.0	12/07/2043	03/07/2012
26.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.661		03/08/2011	N/A		0	N/A	0	2.0	12/06/2072	03/07/2012
27.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.574		03/08/2011	N/A		5.2	N/A	8.0	5.2	03/15/2018	05/07/2012
28.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.580		03/08/2011	N/A		4.0	N/A	9.8	4.0	10/22/2021	03/07/2012
29.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.602		03/08/2011	N/A		0	N/A	0	2.0	06/07/2043	03/07/2012
30.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.611		03/08/2011	N/A		0	N/A	0	2.0	12/07/2047	03/07/2012
31.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.622		03/08/2011	N/A		0	N/A	0	2.0	06/07/2053	03/07/2012
32.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.603		03/08/2011	N/A		0	N/A	0.6	2.0	12/07/2043	03/07/2012
33.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.593		03/08/2011	N/A		1.4	N/A	6.6	2.0	12/07/2038	03/07/2012
34.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.684		03/08/2011	N/A		0	N/A	0	2.0	06/07/2084	03/07/2012
35.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.595		03/08/2011	N/A		1.0	N/A	1.0	2.0	12/07/2039	03/07/2012
36.01	END	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.596		03/08/2011	N/A		0.8	N/A	0.8	2.0	06/07/2040	03/07/2012
37.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.628		03/08/2011	N/A		0	N/A	2.4	2.0	06/07/2056	03/07/2012
38.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.596		03/08/2011	N/A		0.8	N/A	1.2	2.0	06/07/2040	03/07/2012
39.01	STR	N	0.600 NM	0.600 NM	02/27/2006			N/A	0.599		03/08/2011	N/A		0.2	N/A	0.2	2.0	12/06/2041	03/07/2012

UltraPIPE Inspection Data Management
Hawkeye Inspection, LLC
1595 So. Hwy 150, Suite F
Evanston, WY 82930 307-789-3540

Report Date: 04/22/2011

(Report in Inches, Corrosion Rates in MPY)
Analysis: Straight Line

Flange Rating: 5295 lb/in²
Design Pressure: 5000 lb/in²
Design Temperature: 392 °F

Unit: LH-0011
Eq/Circ ID: LH0011-C2
Design Code: B31.3
Eq Type: VESSEL
Class:
CM RBI:

Description: COIL 2 ON LINE HEATER; SN:05-129C

TML Corrosion Rates are each the Maximum of:
(A) -- Calculated Corrosion Rates x 1.00 : Varies
(B) -- Default Corrosion Rate : 2.0 MPY

Representative Corrosion Rate is the Maximum of:
(A) -- Average Corrosion Rate x 1.10 : Not Used.
(B) -- Average Max 25.0% of TMLs, Min of 2 : Not Used.
(C) -- Formula Corrosion Rate (Sigma = 1.28) : Not Used.
(D) -- Default Corrosion Rate : 0.1 MPY
Representative Corrosion Rate = 0.1 MPY

TML thickness readings have not been compensated for high Temperatures.
TML thickness readings have not been compensated for growths.

TML Life calculations are based on the Representative TML Corrosion Rate using Short Term and Long Term Corrosion Rates.

Nominal thickness is used for TML corrosion rate calculations with less than 3 surveys.

Minimum time between inspections required for corrosion rate calculation is 3 months.

TML Inspection Interval is:
(A) -- 1.00 years.

Eq/Circ ID Last Survey Date is based on the LAST of the last 0% of TML survey dates (Min 1).

Eq/Circ ID Estimated life = 13.1 years from the most recent survey date.
(Estimated Life based on the ave of the earliest 25% (Min 6) TML retirement dates.)

Predicted Eq/Circ ID Retirement date is 04/07/2024

Recommended Eq/Circ UT/RT Inspection Date is 03/07/2012
UT/RT Inspection Interval is 1.00 years.

Caution TML Logic: TML Corrosion Rate > 15.0 MPY .OR. TML Remaining Life < 1.00 Years.
There are 0 Caution TMLs in this Eq/Circ ID.