



P.E. No.:	<u>N/S</u>	Yr. Blt.:	<u>2004</u>
C#	<u>N/S</u>	Manway:	<u>NO</u>
Serial No.:	<u>2004-7340-01</u>	Size:	<u>22" X 30'</u>
P.R.N. Ⓐ	<u>0517050</u>	Service:	<u>SWEET GAS</u>
C.R.N.:	<u>P5021.213</u>	PWHT:	<u>N/S</u>
Code/Div.:	<u>N/S</u>	RT:	<u>1</u>
Para:	<u>UW11A</u>	Insulated:	<u>NO</u>
C. Stamp:	<u>UW HT</u>	N.B. No.:	<u>N/S</u>
Manufacturer:	<u>ALCO</u>		

Design & Materials Data

HEAD	SHELL
Material: <u>SA-516-70MT</u>	Material: <u>SA-516-70MT</u>
Nom.: <u>23.8mm</u>	Nom.: <u>25.4mm</u>
C.A.: <u>3.2mm</u>	C.A.: <u>3.2mm</u>

BOOT HEAD	BOOT SHELL
Material: _____	Material: _____
Nom.: _____	Nom.: _____
C.A.: _____	C.A.: _____

CHANNEL HEAD	CHANNEL SHELL
Material: _____	Material: _____
Nom.: _____	Nom.: _____
C.A.: _____	C.A.: _____

MAWP Shell Side: <u>1440 PSI</u>	@ Temp.: <u>130°F</u>
MAWP Tube Side: _____	@ Temp.: _____

CLIENT
CNRL

FACILITY
ERSKINE FIELD

LSD 04-07-039-20W4M

ITEM
2 PHASE GLYCOL CONTACTOR

Comments: _____

BY: M.T./A.C. DATE: 2008/05 DWG.# 024



CNRL ERSKINE FIELD

Corrosion Monitoring Eq/Circ ID Analysis Report

(Report in Millimeters, Corrosion Rates in mm/Yr)
Analysis: Straight Line

Report Date: 08/15/2008 15:36:15

Unit: I-037
Eq/Circ ID: (024)
Eq Type: VESSEL
Class:
RBI:

Description:
A0517050 - 2ND PHASE GLYCOL CONTACTOR
04-07-039-20W4M

Flange Rating: 0 lb/in²
Design Pressure: 1440 lb/in²
Design Temp: 130 °F

Summary: Group Name: I-037
Insp. Due Date = 01/12/2004
Pred. Ret. Date = 04/20/2051

Group description: ERSKINE FIELD
RCR = 0.003 mm/Yr
Rem. Life (from last survey 05/28/2008) = 42.9 yrs

0 C.A. Status: No
Total Caution TMLs = 2

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
2.01	4"90L NOZZLE B-T	N *	8.60 NM	01/01/2004	N/A	N/A	8.70	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	09/27/2041	05/28/2013
2.02	4"90L NOZZLE B-T	Y *	8.60 NM	01/01/2004	N/A	N/A	8.50	05/28/2008	N/A	0.023	N/A	0.023	8.60 U	0.023	01/12/2004	01/12/2004
2.03	4"90L NOZZLE B-T	N *	8.60 NM	01/01/2004	N/A	N/A	8.70	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	09/27/2041	05/28/2013
2.04	4"90L NOZZLE B-T	Y *	8.60 NM	01/01/2004	N/A	N/A	8.60	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	05/28/2008	05/28/2008
2.05	4"90L NOZZLE B-T	N *	8.60 NM	01/01/2004	N/A	N/A	8.90	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	05/29/2108	05/28/2013
2.06	4"90L NOZZLE B-T	N *	8.60 NM	01/01/2004	N/A	N/A	8.70	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	09/27/2041	05/28/2013
2.07	4"90L NOZZLE B-T	N *	8.60 NM	01/01/2004	N/A	N/A	8.80	05/28/2008	N/A	0.000	N/A	0.000	8.60 U	0.003	01/27/2075	05/28/2013
4.01	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
4.02	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
4.03	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
4.04	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
4.05	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
4.06	TOP SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
6.01	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
6.02	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.10	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	06/07/3308	05/28/2013
6.03	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.10	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	06/07/3308	05/28/2013
6.04	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
6.05	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.10	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	06/07/3308	05/28/2013
6.06	SHELL OPP I/L TB	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
8.01	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
8.02	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.20	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/07/3341	05/28/2013
8.03	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.10	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	06/07/3308	05/28/2013
8.04	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.00	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	02/05/3275	05/28/2013
8.05	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	26.00	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	02/05/3275	05/28/2013
8.06	BTM SHELL T-B	N	25.40 NM	01/01/2004	N/A	N/A	25.90	05/28/2008	N/A	0.000	N/A	0.000	22.20 U	0.003	10/06/3241	05/28/2013
10.01	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	26.90	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013
10.02	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	27.00	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013
10.03	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	26.90	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013
10.04	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	27.10	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013
10.05	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	27.00	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013
10.06	BTM HEAD E-W	N	23.80 NM	01/01/2004	N/A	N/A	27.10	05/28/2008	N/A	0.000	N/A	0.000	20.60 U	0.003	06/12/4008	05/28/2013



**CNRL
ERSKINE FIELD**

TML Number	Location Description	Ctn TML	First Survey Thick Nt	First Survey Date	Previous Survey Thick Nt	Previous Survey Date	Last Survey Thick Nt	Last Survey Date	Short Term Rate	Long Term Rate	Best Fit Rate	Max Hist CR	Retirement Thickness	Rep TML CR	TML Retirement Date	TML Inspection Due Date
12.01	2"CIRC NOZZLE TE	N *	8.70 NM	01/01/2004	N/A	N/A	8.80	05/28/2008	N/A	0.000	N/A	0.000	8.70 U	0.003	09/27/2041	05/28/2013
12.02	2"CIRC NOZZLE TE	N *	8.70 NM	01/01/2004	N/A	N/A	8.90	05/28/2008	N/A	0.000	N/A	0.000	8.70 U	0.003	01/27/2075	05/28/2013
12.03	2"CIRC NOZZLE TE	N *	8.70 NM	01/01/2004	N/A	N/A	9.00	05/28/2008	N/A	0.000	N/A	0.000	8.70 U	0.003	05/29/2108	05/28/2013
12.04	2"CIRC NOZZLE TE	N *	8.70 NM	01/01/2004	N/A	N/A	8.90	05/28/2008	N/A	0.000	N/A	0.000	8.70 U	0.003	01/27/2075	05/28/2013
14.01	4"90L O/L T-B	N	8.60 NM	01/01/2004	N/A	N/A	8.80	05/28/2008	N/A	0.000	N/A	0.000	7.50 U	0.003	09/30/2441	05/28/2013
14.02	4"90L O/L T-B	N	8.60 NM	01/01/2004	N/A	N/A	8.80	05/28/2008	N/A	0.000	N/A	0.000	7.50 U	0.003	09/30/2441	05/28/2013
14.03	4"90L O/L T-B	N	8.60 NM	01/01/2004	N/A	N/A	8.90	05/28/2008	N/A	0.000	N/A	0.000	7.50 U	0.003	01/30/2475	05/28/2013
14.04	4"90L O/L T-B	N	8.60 NM	01/01/2004	N/A	N/A	8.80	05/28/2008	N/A	0.000	N/A	0.000	7.50 U	0.003	09/30/2441	05/28/2013
14.05	4"90L O/L T-B	N	8.60 NM	01/01/2004	N/A	N/A	9.00	05/28/2008	N/A	0.000	N/A	0.000	7.50 U	0.003	06/01/2508	05/28/2013



**CNRL
ERSKINE FIELD**

(Report in Millimeters, Corrosion Rates in mm/Yr)
Analysis: Straight Line

Report Date: 08/15/2008 15:36:16

Unit: I-037
Eq/Circ ID: (024)
Eq Type: VESSEL
Class:
RBI:

Description:
A0517050 - 2ND PHASE GLYCOL CONTACTOR
04-07-039-20W4M

Flange Rating: 0 lb/in²
Design Pressure: 1440 lb/in²
Design Temp: 130 °F

TML Corrosion Rates are each the maximum of:

(A) -- Calculated Corrosion Rates x 1.00 : Varies
(B) -- Default Corrosion Rate : 0.003 mm/Yr

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 : 0.003 mm/Yr
Representative Corrosion Rate = 0.003 mm/Yr

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 6 months.

TML Inspection Interval is:

(A) -- Minimum(TML Life / 2.00, 5.00 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 = 42.9 years from the most recent survey date.
(Estimated Life is based on the average of the earliest 25% (Min 1) TML retirement dates.)

Predicted Eq/Circ ID Retirement date is 04/20/2051

Recommended Eq/Circ UT/RT Inspection Date is 01/12/2004
UT/RT Inspection Interval is the minimum(Remaining life / 2.0, 5.00 years).

Caution TML Logic: TML Corrosion Rate > 0.250 mm/Yr .OR. TML Remaining Life < 1.00 Years.

There are 2 Caution TMLs in this Eq/Circ ID.