



SERVICE DATE: 2010/11
 LONG TERM CORROSION RATE BASED ON GREATEST THICKNESS LOSS—NO CORROSION RATE TO ASSESS.

OUT OF SERVICE

Equip. No. _____ Prov. Reg. No. Ⓐ 506337 C.R.N. R-7760.2 Serial No. 2004-7235-01 Yr. Inst. _____
 Code/Div. ASME VIII, Div 1 Size: 48in x 10ft Manufacturer: ALCO GAS & OIL Yr. Blt. 2004
 C. Stamp: U Service: SOUR PWHT: HT Radiography: RT1 Insulated: NO

Design & Materials Data

HEAD:
 Top Mat'l. SA 516 70N Top Nom. 54.6mm Top C.A. 3.2mm
 Btm. Mat'l. _____ Btm. Nom. _____ Btm. C.A. _____
 CHANNEL:
 Material: _____ Nominal: _____ C.A. _____
 BOOT
 Head Mat'l. _____ Head Nom. _____ Head C.A. _____
 Shell Mat'l. _____ Shell Nom. _____ Shell C.A. _____
 SHELL
 Material: SA 516 70N Nominal: 57.1mm C.A. 3.2mm
 MAWP Shell Side: 15099 kPa @ Temp. 38°C
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	UMBACH FIELD LSD c-37-F/94-H-03	
ITEM	INLET SEPARATOR	
BY: J.D.H	DATE: 11/2010	DWG.# 10

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: INLET SEPARATOR
CRN#: R-7760.2
PROV REG: A 506337
TESTED ON STREAM

FACILITY: UMBACH FIELD
SERVICE: SOUR
LOCATION: c-37-F/94-H-03
RTD JOB #: 105.01582
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
110	Description: LOWER HEAD											
	2010	11	2011	12								
Min. Thick.	56.3		56.3		51.40		3.2	54.60	0		0	
Average:	58		58						0		0	
Analysis:	2010/11 MIN SCAN @ TOP OF BAND.											
115	Description: MID SHELL											
	2010	11	2011	12								
Min. Thick.	58.4		58.4		53.90		3.2	57.10	0		0	
Average:	58.7		58.7						0		0	
Analysis:												
120	Description: BOTTOM SHELL											
	2010	11	2011	12								
Min. Thick.	59		59		53.90		3.2	57.10	0		0	
Average:	59.2		59.2						0		0	
Analysis:												
122	Description: BOTTOM SHELL											
	2011	12										
Min. Thick.	59				53.90		3.2	57.10				
Average:	59.2								0		0	
Analysis:												
125	Description: TOP SHELL											
	2010	11	2011	12								
Min. Thick.	58.6		58.6		53.90		3.2	57.10	0		0	
Average:	58.9		58.9						0		0	
Analysis:												
130	Description: LOWER HEAD											
	2010	11	2011	12								
Min. Thick.	55.8		55.8		51.40		3.2	54.60	0		0	
Average:	56.8		56.8						0		0	
Analysis:												

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: INLET SEPARATOR
CRN#: R-7760.2
PROV REG: A 506337
TESTED ON STREAM

FACILITY: UMBACH FIELD
SERVICE: SOUR
LOCATION: c-37-F/94-H-03
RTD JOB #: 105.01582
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
135												
Description:	2" 90° NOZZLE											
	2010	11	2011	12								
Min. Thick.	9		9		5.50		3.2	8.70	0		0	
Average:	9.5		9.5						0		0	
Analysis:												

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: INLET SEPARATOR PIPING
CRN#:
PROV REG:
TESTED ON STREAM

FACILITY: UMBACH FIELD
SERVICE: SOUR
LOCATION: c-37-F/94-H-03
RTD JOB #: 105.01582
REFER TO DRAWING: 10

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
105												
Description:	8" 90° ELBOW											
	2010	11	2011	12								
Min. Thick.	15.9		15.9		11.11		1.6	12.70	0		0	
Average:	17.9		17.9						0		0	
Analysis:												
140												
Description:	2" 90° ELBOW											
	2010	11	2011	12								
Min. Thick.	7.9		7.9		7.61		1.1	8.70	0		0	
Average:	8.1		8.1						0		0	
Analysis:												
145												
Description:	8" 90° ELBOW											
	2010	11	2011	12								
Min. Thick.	17		17		16.01		2.3	18.30	0		0	
Average:	18		18						0		0	
Analysis:	2010/11 MIN SCAN @ MID ELBOW MID APEX.											