



**PSV DATA**  
 MFG: FARRIS  
 MODEL: 26ja12-120  
 SERIAL: CE-407219-1-A10  
 SET PRES: 4964 kPa  
 CAPACITY: 18110 scfm  
 SERVICED BY: PENTAIR  
 SERVICE DATE: 06/2013  
 SIZE: 2.5in x 4in  
 CODE STAMP: UV  
 BLOCK VALVE: NO  
 CRN: OG2369.5C  
 LOCATION: TOP SHELL  
 TAG: MWS 68378

Equip. No. \_\_\_\_\_ Prov. Reg. No. **443866** C.R.N. **L-5247.2** Serial No. **99C 6105 05** Yr. Inst. \_\_\_\_\_  
 Code/Div. **ASME VIII, DIV 1** Size: **54in x19ft** Manufacturer: **ALCO GAS & OIL** Yr. Blt. **1999**  
 C. Stamp: **YES** Service: **SWEET** PWHT: **NO** Radiography: **RT-2** Insulated: **NO**

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. **SA 516 70N** Top Nom. **37.2mm** Top C.A. **1.6mm**  
 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: **31.8mm** C.A. **1.6mm**  
 MAWP Shell Side: **4964 kPa** @ Temp. **38°C**  
 MAWP Tube Side: \_\_\_\_\_ @ Temp. \_\_\_\_\_

CLIENT	CANADIAN NATURAL RESOURCES		
FACILITY	HAMBURG BATTERY		
	LSD 15-21-96-10 W6M		
ITEM	GROUP SEPARATOR		
BY: EG	DATE: 03/01	DWG.#	3

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** GROUP SEPARATOR  
**CRN#:**  
**PROV REG:** A 443866  
**TESTED ON STREAM**

**FACILITY:** HAMBURG BATTERY  
**SERVICE:** SWEET  
**LOCATION:** 15-21-96-10 W6M  
**RTD JOB #:** 10.113290  
**REFER TO DRAWING:** 3

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
310	Description: WEST HEAD													
	2001	2	2006	5	2013	6								
Min. Thick.	31.7		31.7		31.7		29.40	1.6	31.00	0	0			
Average:	32.5		32.5		32.5					0	0			
Analysis:	2006/05 - MIN SCAN @ START OF BAND													
315	Description: SHELL OPPOSITE INLET													
	2001	2	2006	5	2013	6								
Min. Thick.	32.2		32.2		32.2		30.20	1.6	31.80	0	0			
Average:	32.5		32.5		32.3					.03	.02			
Analysis:														
320	Description: HORIZONTAL BOTTOM SHELL													
	2001	2	2006	5	2013	6								
Min. Thick.	32		32		32		30.20	1.6	31.80	0	0			
Average:	32		32		32					0	0			
Analysis:														
325	Description: SHELL @ LOWER LIQUID LEVEL													
	2001	2	2006	5	2013	6								
Min. Thick.	32		32		32		30.20	1.6	31.80	0	0			
Average:	32		32		32					0	0			
Analysis:														
330	Description: SHELL @ UPPER LIQUID LEVEL													
	2001	2	2006	5	2013	6								
Min. Thick.	32.2		32.2		32.2		30.20	1.6	31.80	0	0			
Average:	32.2		32.2		32.2					0	0			
Analysis:														
335	Description: UPPER SHELL AT OUTLET													
	2001	2	2006	5	2013	6								
Min. Thick.	32.2		32.2		32.2		30.20	1.6	31.80	0	0			
Average:	32.2		32.2		32.2					0	0			
Analysis:														

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** GROUP SEPARATOR  
**CRN#:**  
**PROV REG:** A 443866  
**TESTED ON STREAM**

**FACILITY:** HAMBURG BATTERY  
**SERVICE:** SWEET  
**LOCATION:** 15-21-96-10 W6M  
**RTD JOB #:** 10.113290  
**REFER TO DRAWING:** 3

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
340														
Description:	EAST HEAD													
	2001	2	2006	5	2013	6								
Min. Thick.	37.7		37.7		37.7		35.60	1.6	37.20	0	0			
Average:	38.5		38.5		38.5					0	0			
Analysis:	2006/05 - MIN SCAN @ REPAD													
345														
Description:	BOOT SHELL													
	2001	2	2006	5	2013	6								
Min. Thick.	26		26		26		0.00			0	0			
Average:	26		26		26					0	0			
Analysis:														
350														
Description:	BOOT HEAD													
	2001	2	2006	5	2013	6								
Min. Thick.	25		25		25		0.00			0	0			
Average:	26		26		26					0	0			
Analysis:	2006/05 - MIN SCAN @ NOZZLE													
355														
Description:	2" 90° NOZZLE													
	2001	2	2006	5	2013	6								
Min. Thick.	5.2		5.2		5.2		3.90	1.6	5.50	0	0			
Average:	5.5		5.5		5.5					0	0			2181
Analysis:														

# UTS DATA

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

**FACILITY:** HAMBURG BATTERY  
**SERVICE:** SWEET  
**LOCATION:** 15-21-96-10 W6M  
**RTD JOB #:** 10.113290  
**REFER TO DRAWING:** 3

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
<b>262</b>														
Description: 2" 90° ELBOW														
	2006	5	2013	6										
Min. Thick.	5.4		5.4			4.81		.7	5.50	0	0			
Average:	5.7		5.7							0	0			
Analysis:														
<b>305</b>														
Description: 10" 90° ELBOW ON INLET														
	2001	2	2006	5	2013	6								
Min. Thick.	9		9		9		8.14		1.2	9.30	0	0		
Average:	9.4		9.4		9.4						0	0		
Analysis:														
<b>307</b>														
Description: 10" 90° ELBOW														
	2013	6												
Min. Thick.	8.7						8.14		1.2	9.30				
Average:	9										0	0		
Analysis:														
<b>357</b>														
Description: 10" 90° ELBOW														
	2013	6												
Min. Thick.	9						8.14		1.2	9.30				
Average:	9.3										0	0		
Analysis:														
<b>358</b>														
Description: 10" 90° ELBOW														
	2001	2	2006	5	2013	6								
Min. Thick.	9.1		9.1		9.1		8.14		1.2	9.30	0	0		
Average:	9.5		9.5		9.5						0	0		
Analysis: 2006/05 - MIN SCAN @ MID ELBOW														
<b>360</b>														
Description: 2" 90° ELBOW														
	2001	2	2006	5	2013	6								
Min. Thick.	5.2		5.2		5.2		4.81		.7	5.50	0	0		
Average:	5.5		5.5		5.5						0	0		
Analysis:														

# UTS DATA

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

**FACILITY:** HAMBURG BATTERY  
**SERVICE:** SWEET  
**LOCATION:** 15-21-96-10 W6M  
**RTD JOB #:** 10.113290  
**REFER TO DRAWING:** 3

Test Point	THICKNESS DATA					Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
<b>361</b>													
Description: 2" BOTTOM BAND													
	2006	5	2013	6									
Min. Thick.	5.4		5.4		4.81		.7	5.50	0	0			
Average:	5.7		5.7						0	0			
Analysis:													
<b>363</b>													
Description: 2" BOTTOM BAND													
	2006	5	2013	6									
Min. Thick.	5.4		5.4		4.81		.7	5.50	0	0			
Average:	5.6		5.6						0	0			
Analysis:													
<b>364</b>													
Description: 2" 90° ELBOW													
	2006	5	2013	6									
Min. Thick.	5.2		5		4.81		.7	5.50	.03	.03			
Average:	5.4		5.3						.01	.01			
Analysis:													
<b>365</b>													
Description: 2" BOTTOM BAND													
	2001	2	2006	5	2013	6							
Min. Thick.	5.4		5.3		5.3		4.81	.7	5.50	0	.01		
Average:	5.7		5.6		5.6					0	.01		
Analysis:													
<b>369</b>													
Description: 2" 90° ELBOW													
	2006	5	2013	6									
Min. Thick.	5.7		5.6		4.81		.7	5.50	.01	.01			
Average:	5.9		5.9						0	0			
Analysis:													
<b>370</b>													
Description: 2" CIRC ON DEAD LEG													
	2001	2	2006	5	2013	6							
Min. Thick.	5.6		5.3		5.3		4.81	.7	5.50	0	.02		
Average:	5.9		5.7		5.7					0	.02		
Analysis: 2006/05 MIN SCAN AT 7:00 POSITION													

# UTS DATA

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

**FACILITY:** HAMBURG BATTERY  
**SERVICE:** SWEET  
**LOCATION:** 15-21-96-10 W6M  
**RTD JOB #:** 10.113290  
**REFER TO DRAWING:** 3

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
375	Description: 2" CIRC ON DEAD LEG													
	2001	2	2006	5	2013	6								
Min. Thick.	5.8		5.5		5.5		4.81	.7	5.50	0		.02		
Average:	6.1		5.9		5.9					0		.02		
Analysis:	2006/05 MIN SCAN AT 7:00 POSITION													
380	Description: 2" BOTTOM BAND													
	2001	2	2006	5	2013	6								
Min. Thick.	5.1		5.1		5.1		4.81	.7	5.50	0		0		
Average:	5.4		5.4		5.4					0		0		
Analysis:														
381	Description: 2" BOTTOM BAND													
	2006	5	2013	6										
Min. Thick.	5.2		5.2				4.81	.7	5.50	0		0		
Average:	5.4		5.4							0		0		
Analysis:														
385	Description: 2" BOTTOM BAND													
	2001	2	2006	5	2013	6								
Min. Thick.	5.4		5.4		5.4		4.81	.7	5.50	0		0		
Average:	5.7		5.7		5.7					0		0		
Analysis:														
386	Description: 2" BOTTOM BAND													
	2006	5	2013	6										
Min. Thick.	5.6		5.4				4.81	.7	5.50	.03		.03		
Average:	5.7		5.6							.01		.01		
Analysis:														