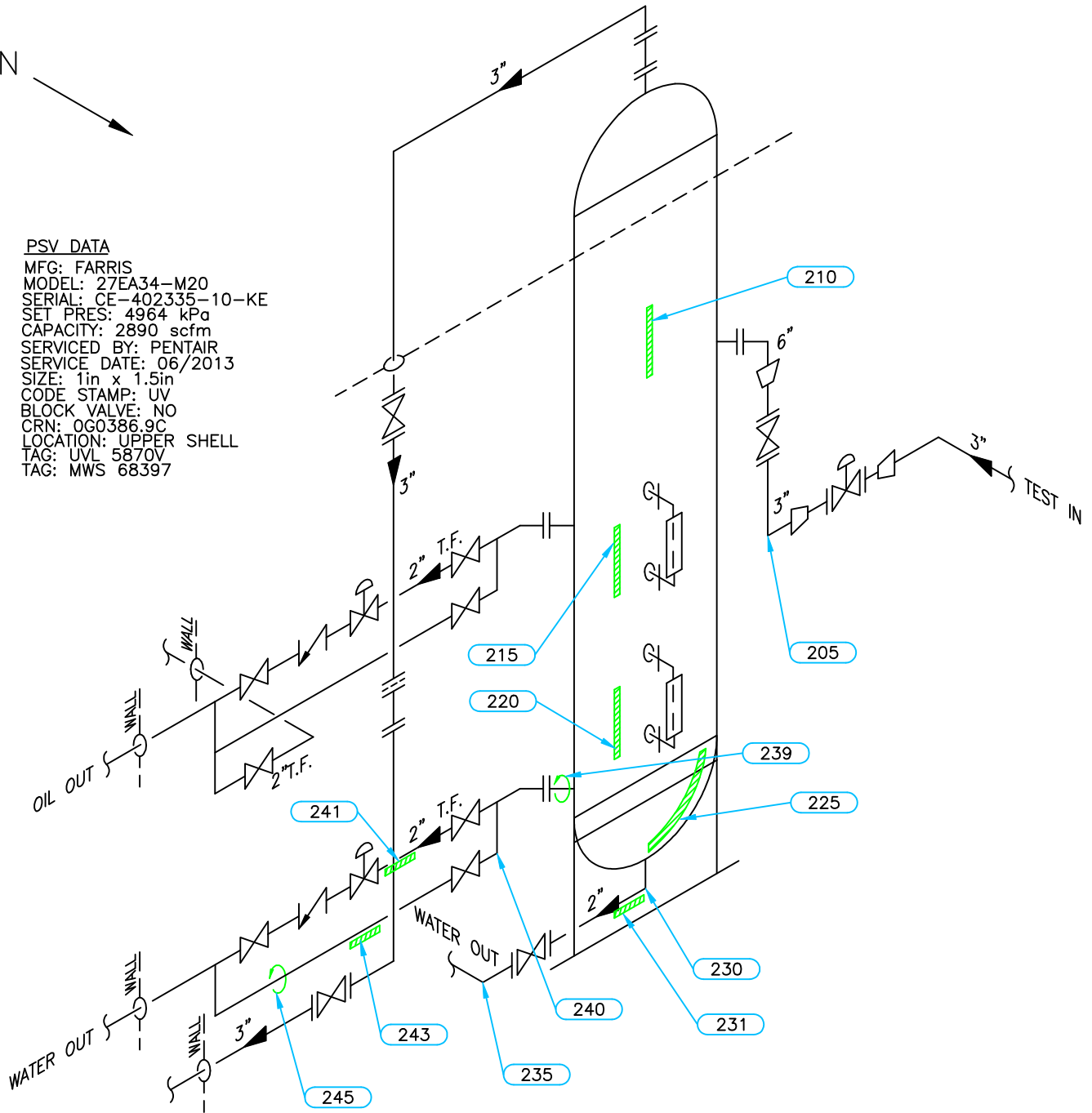


PSV DATA

MFG: FARRIS
 MODEL: 27EA34-M20
 SERIAL: CE-402335-10-KE
 SET PRES: 4964 kPa
 CAPACITY: 2890 scfm
 SERVICED BY: PENTAIR
 SERVICE DATE: 06/2013
 SIZE: 1in x 1.5in
 CODE STAMP: UV
 BLOCK VALVE: NO
 CRN: 0G0386.9C
 LOCATION: UPPER SHELL
 TAG: UVL 5870V
 TAG: MWS 68397



SKID 15136

Equip. No. _____ Prov. Reg. No. **443875** C.R.N. **L-5152.2** Serial No. **99C 6105 01** Yr. Inst. _____
 Code/Div. **ASME VIII, DIV 1** Size: **30in x10ft** Manufacturer: **ALCO GAS & OIL** Yr. Blt. **1999**
 C. Stamp: **YES** Service: **SWEET** PWHT: _____ Radiography: **RT-2** Insulated: **NO**

Design & Materials Data

HEAD:
 Top Mat'l. **SA 516 70N** Top Nom. **18.3mm** 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: **19.1mm** 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	TEST SEPARATOR		
BY: EG	DATE: 03/01	DWG.#	2

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: TEST SEPARATOR
CRN#:
PROV REG: A 443875
TESTED ON STREAM

FACILITY: HAMBURG BATTERY
SERVICE: SWEET
LOCATION: 15-21-96-10 W6M
RTD JOB #: 10.113290
REFER TO DRAWING: 2

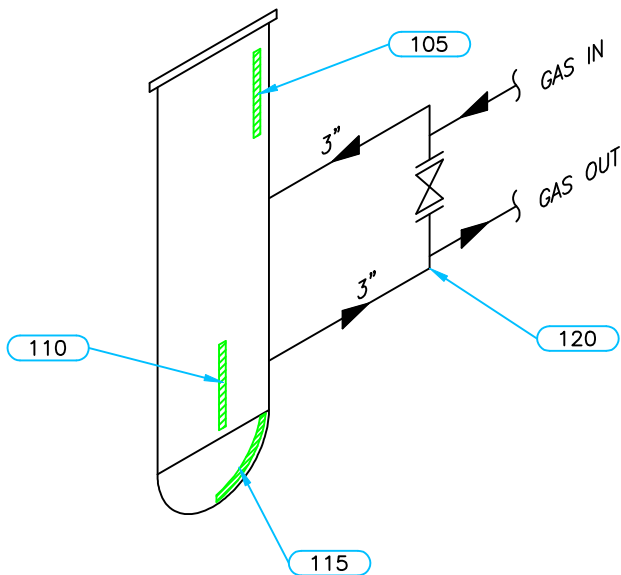
Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
210														
Description: UPPER SHELL														
	2001	2	2006	5	2013	6								
Min. Thick.	18.8		18.8		18.8		17.50	1.6	19.10	0	0			
Average:	18.9		18.9		18.9					0	0			
Analysis:														
215														
Description: SHELL @ UPPER LIQUID LEVEL														
	2001	2	2006	5	2013	6								
Min. Thick.	18.8		18.8		18.8		17.50	1.6	19.10	0	0			
Average:	18.9		18.9		18.9					0	0			
Analysis:														
220														
Description: SHELL @ LOWER LIQUID LEVEL														
	2001	2	2006	5	2013	6								
Min. Thick.	18.8		18.8		18.8		17.50	15.3	1.6	19.10	0	0		
Average:	18.9		18.9		18.9						0	0		2176
Analysis:														
225														
Description: BOTTOM HEAD														
	2001	2	2006	5	2013	6								
Min. Thick.	18.3		18.3		18.3		16.70	1.6	18.30	0	0			
Average:	18.7		18.7		18.7					0	0			
Analysis: 2006/05 MIN SCAN @ NOZZLE														
230														
Description: 2" 90° NOZZLE														
	2001	2	2006	5	2013	6								
Min. Thick.	8.5		8.5		8.5		7.10	1.6	1.6	8.70	0	0		
Average:	8.9		8.9		8.9						0	0		2496
Analysis: 2006/05 - MIN SCAN @ MID APEX, MID ELBOW														
239														
Description: 2" CIRC BAND														
	2006	5	2013	6										
Min. Thick.	8.7		8.5				7.10	1.6	8.70	.03	.03			
Average:	9		8.9							.01	.01			
Analysis: 2013/06 MIN SCAN @ 12:00 POSITION.														

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: TEST 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: 2

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
205														
Description: 3" 90° ELBOW														
	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:														
231														
Description: 2" BOTTOM BAND														
	2006	5	2013	6										
Min. Thick.	8.5		8.5				7.61	1.1	8.70	0	0			
Average:	8.7		8.7							0	0			
Analysis:														
235														
Description: 2" 90° ELBOW														
	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:														
240														
Description: 3" 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:														
241														
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:														
243														
Description: 2" BOTTOM BAND														
	2006	5	2013	6										
Min. Thick.	5.3		5.3				4.81	.7	5.50	0	0			
Average:	5.5		5.5							0	0			
Analysis:														



SKID 15136

Equip. No. _____ Prov. Reg. No. **Ⓐ 443865** C.R.N. **L-5244.2** Serial No. **99C-6105-04** Yr. Inst. _____
 Code/Div. **ASME VIII, Div. 1** Size: **6.625in x 38in** Manufacturer: **ALCO GAS & OIL** Yr. Blt. **1998**
 C. Stamp: **NO** Service: **SWEET** PWHT: **NIL** Radiography: **RT2** Insulated: **NO**

Design & Materials Data

HEAD:
 Top Mat'l. **SA 350 LF2** Top Nom. **17.5mm** Top C.A. **1.6mm**
 Btm. Mat'l. **SA 234 WPB** Btm. Nom. **12.7mm** Btm. C.A. **1.6mm**
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 106 B** Nominal: **11.0mm** C.A. **1.6mm**
 MAWP Shell Side: **9929 kPa** @ Temp. **38°C**
 MAWP Tube Side: _____ @ Temp. _____

CLIENT	CANADIAN NATURAL RESOURCES		
FACILITY	HAMBURG BATTERY		
	LSD 15-21-96-10 W6M		
ITEM	PIG RECEIVER		
BY: LR	DATE: 07/2006	DWG.#	1A

UTS DATA

CLIENT: CANADIAN NATURAL RESOURCES
EQUIPMENT: FUEL GAS SCRUBBER
CRN#:
PROV REG: A 443865
TESTED ON STREAM

FACILITY: HAMBURG BATTERY
SERVICE:
LOCATION: 15-21-96-10 W6M
RTD JOB #: 10.113290
REFER TO DRAWING: 1A

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
105	Description: UPPER SHELL													
	2006	7	2013	6										
Min. Thick.	13.2		13		9.40	7.1	1.6	11.00		.03		.03		
Average:	13.4		13.3							.01		.01		2027
Analysis:														
110	Description: LOWER SHELL													
	2006	7	2013	6										
Min. Thick.	12.8		12.8		9.40		1.6	11.00		0		0		
Average:	13.1		13.1							0		0		
Analysis:														
115	Description: BOTTOM HEAD													
	2006	7	2013	6										
Min. Thick.	9.8		9.8		11.10	7.1	1.6	12.70		0		0		
Average:	10.3		10.3							0		0		2027
Analysis:	2006/07 MIN SCAN AT KNUCKLE													
120	Description: 3" 90° NOZZLE													
	2006	7	2013	6										
Min. Thick.	5.8		5.6		3.90		1.6	5.50		.03		.03		
Average:	6.1		6							.01		.01		
Analysis:														