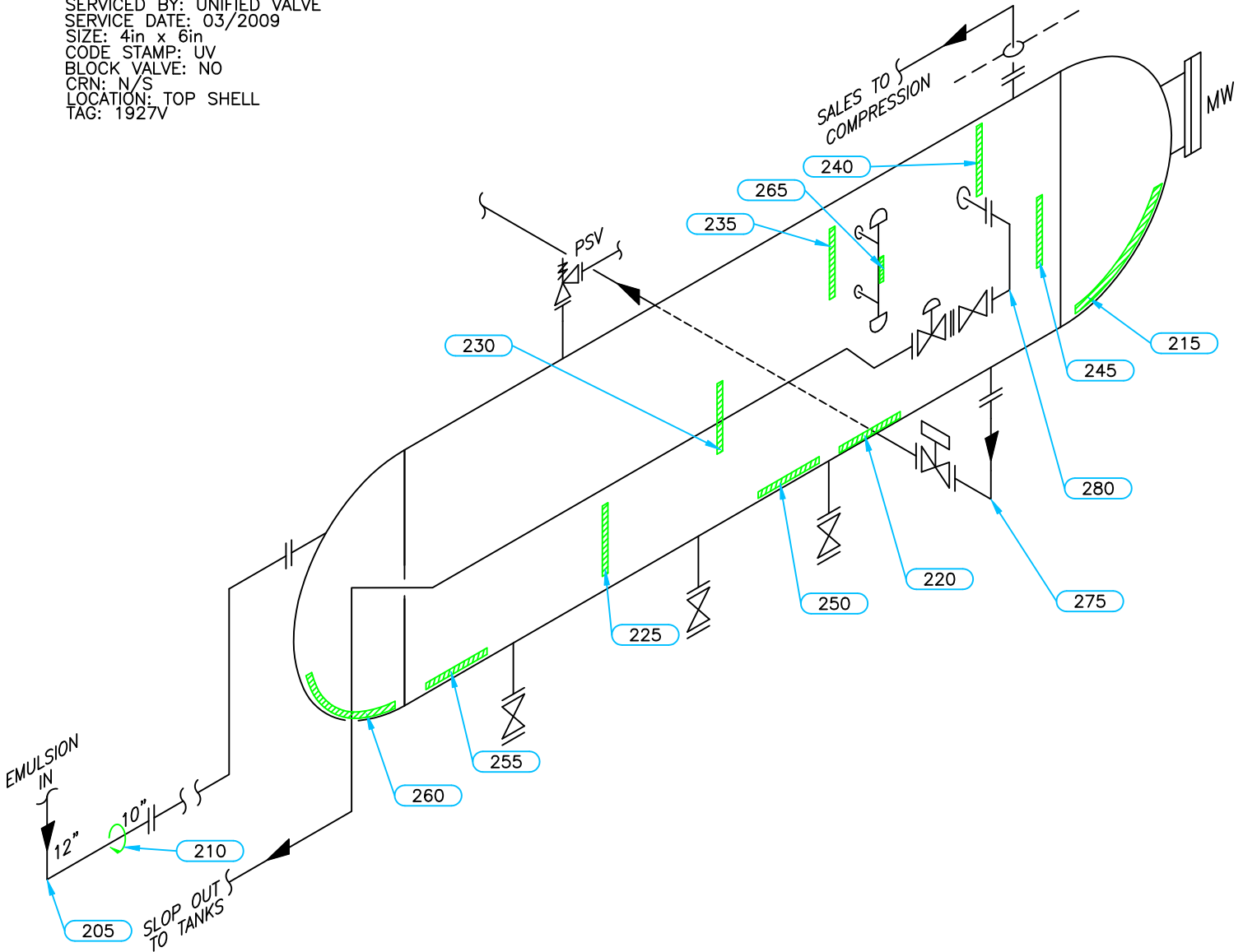


**PSV DATA**

MFG: FARRIS  
 MODEL: 26PA10-120-55M  
 SERIAL: CE-27748-A10  
 SET PRES: 862 kPa  
 CAPACITY: 16930 scfm  
 SERVICED BY: UNIFIED VALVE  
 SERVICE DATE: 03/2009  
 SIZE: 4in x 6in  
 CODE STAMP: UV  
 BLOCK VALVE: NO  
 CRN: N/S  
 LOCATION: TOP SHELL  
 TAG: 1927V



Equip. No. \_\_\_\_\_ Prov. Reg. No. **225408** C.R.N. **F-5480.21** Serial No. **85C-3422-01** Yr. Inst. \_\_\_\_\_  
 Code/Div. **ASME VIII, DIV 1** Size: **12ft x 24ft** Manufacturer: **ALCO GAS & OIL** Yr. Blt. **1985**  
 C. Stamp: **U** Service: **SOUR** PWHT: **NIL** Radiography: **RT-1** Insulated: **NO**

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. **SA 516 70** Top Nom. **17.2mm** 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 70** Nominal: **19.0mm** C.A. **1.6mm**  
 MAWP Shell Side: **862 kPa** @ Temp. **66°C**  
 MAWP Tube Side: \_\_\_\_\_ @ Temp. \_\_\_\_\_

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	MILLIGAN BATTERY LSD b-63-G/94-H-02	
ITEM	FREE WATER KNOCKOUT	
BY: CS	DATE: 12/2008	DWG.# 2

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** FREE WATER KNOCKOUT  
**CRN#:** F-5480.21  
**PROV REG:** A 225408  
**TESTED ON STREAM**

**FACILITY:** MILLIGAN BATTERY  
**SERVICE:** SOUR  
**LOCATION:** b-63-G/94-H-02  
**RTD JOB #:** 10.112227  
**REFER TO DRAWING:** 2

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
215												
Description:	LOWER HEAD											
	2008	12	2012	9								
Min. Thick.	20.2		20.2		15.60		1.6	17.20	0		0	
Average:	21		21						0		0	
Analysis:	09/2012 MIN SCAN AT KNUCKLE. INCLUSIONS PRESENT AT 9mm											
220												
Description:	BOTTOM SHELL											
	2008	12	2012	9								
Min. Thick.	19.4		19.4		17.40		1.6	19.00	0		0	
Average:	19.5		19.5						0		0	
Analysis:												
225												
Description:	LOWER SHELL											
	2008	12	2012	9								
Min. Thick.	19.4		19.4		17.40		1.6	19.00	0		0	
Average:	19.5		19.5						0		0	
Analysis:												
230												
Description:	MID SHELL											
	2008	12	2012	9								
Min. Thick.	19.1		19.1		17.40		1.6	19.00	0		0	
Average:	19.2		19.2						0		0	
Analysis:												
235												
Description:	MID SHELL											
	2008	12	2012	9								
Min. Thick.	19.5		19.5		17.40		1.6	19.00	0		0	
Average:	19.6		19.6						0		0	
Analysis:												
240												
Description:	UPPER SHELL											
	2008	12	2012	9								
Min. Thick.	19.7		19.7		17.40		1.6	19.00	0		0	
Average:	19.8		19.8						0		0	
Analysis:												

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** FREE WATER KNOCKOUT  
**CRN#:** F-5480.21  
**PROV REG:** A 225408  
**TESTED ON STREAM**

**FACILITY:** MILLIGAN BATTERY  
**SERVICE:** SOUR  
**LOCATION:** b-63-G/94-H-02  
**RTD JOB #:** 10.112227  
**REFER TO DRAWING:** 2

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
245												
Description:	MID SHELL											
	2008	12	2012	9								
Min. Thick.	19.7		19.7		17.40		1.6	19.00	0		0	
Average:	19.8		19.8						0		0	
Analysis:												
250												
Description:	BOTTOM SHELL											
	2008	12	2012	9								
Min. Thick.	19		19		17.40	11.4	1.6	19.00	0		0	
Average:	19		19						0		0	
Analysis:												
255												
Description:	BOTTOM SHELL											
	2008	12	2012	9								
Min. Thick.	19.1		19.1		17.40		1.6	19.00	0		0	
Average:	19.3		19.3						0		0	
Analysis:												
260												
Description:	LOWER HEAD											
	2008	12	2012	9								
Min. Thick.	20.2		20.2		15.60		1.6	17.20	0		0	
Average:	21		21						0		0	
Analysis:	09/2012 MIN SCAN AT KNUCKLE											

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** FREE WATER KNOCKOUT PIPING  
**CRN#:**  
**PROV REG:**  
**TESTED ON STREAM**

**FACILITY:** MILLIGAN BATTERY  
**SERVICE:** SOUR  
**LOCATION:** b-63-G/94-H-02  
**RTD JOB #:** 10.112227  
**REFER TO DRAWING:** 2

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
<b>205</b>												
Description:	12" 90° ELBOW											
	2008	12	2012	9								
Min. Thick.	11.6		11.6		11.11		1.6	12.70	0		0	
Average:	12.1		12.1						0		0	
Analysis:	2008/12 MIN SCAN @ APEX.											
<b>210</b>												
Description:	10" CIRC BAND											
	2008	12	2012	9								
Min. Thick.	12.1		12.1		11.11		1.6	12.70	0		0	
Average:	12.7		12.7						0		0	
Analysis:	09/2012 MIN SCAN AT 6:00 POSITION											
<b>265</b>												
Description:	4" VERTICAL BAND											
	2008	12	2012	9								
Min. Thick.	8.8		8.8		7.53		1.1	8.60	0		0	
Average:	9		9						0		0	
Analysis:												
<b>275</b>												
Description:	12" 90° ELBOW											
	2008	12	2012	9								
Min. Thick.	9.7		9.7		9.01		1.3	10.30	0		0	
Average:	10		10						0		0	
Analysis:												
<b>280</b>												
Description:	4" 90° ELBOW											
	2012	9										
Min. Thick.	5.6				5.25		.8	6.00				
Average:	5.9								0		0	
Analysis:												