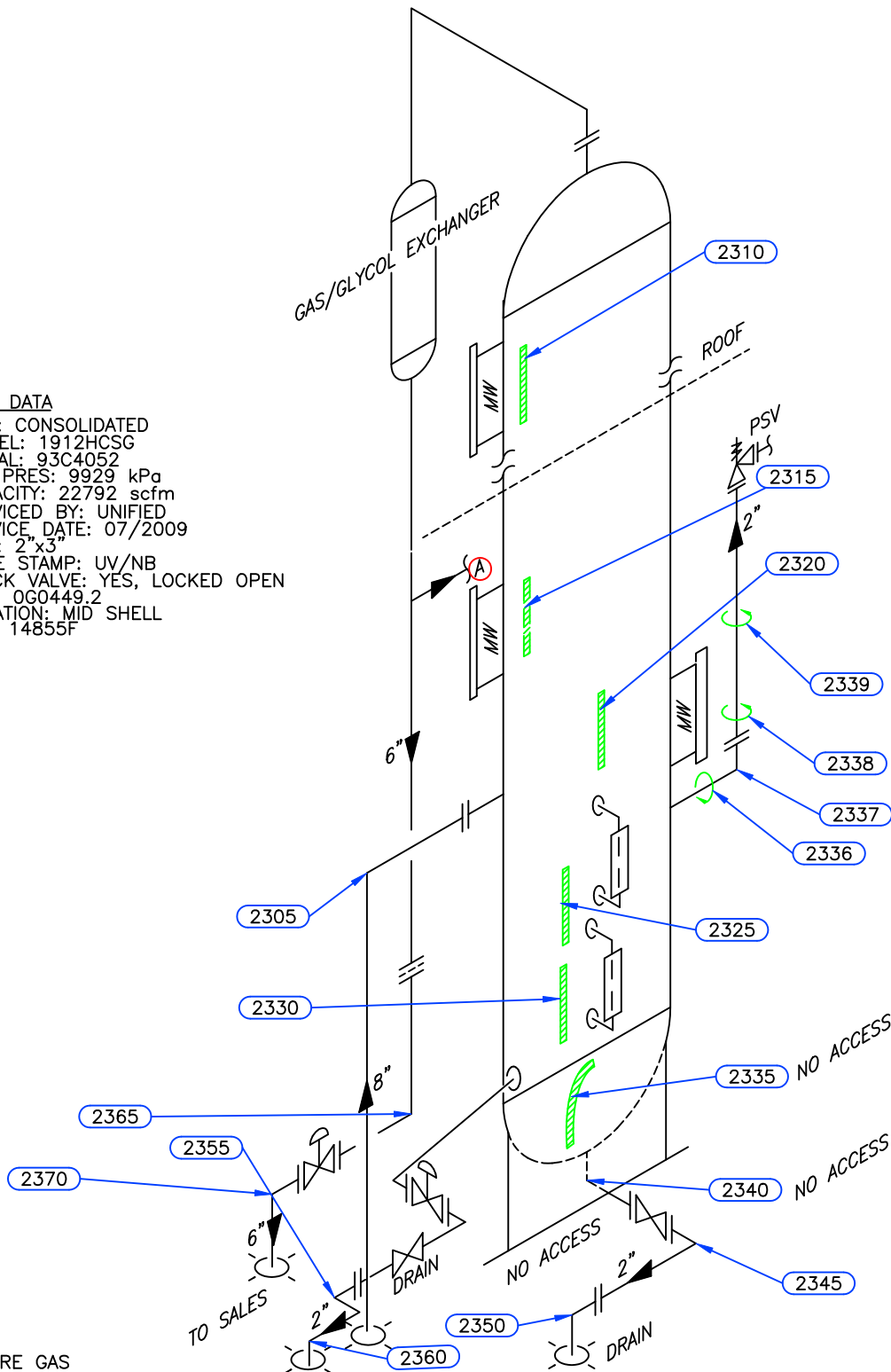


**PSV DATA**

MFG: CONSOLIDATED  
 MODEL: 1912HCSG  
 SERIAL: 93C4052  
 SET PRES: 9929 kPa  
 CAPACITY: 22792 scfm  
 SERVICED BY: UNIFIED  
 SERVICE DATE: 07/2009  
 SIZE: 2"x3"  
 CODE STAMP: UV/NB  
 BLOCK VALVE: YES, LOCKED OPEN  
 CRN: 0G0449.2  
 LOCATION: MID SHELL  
 TAG: 14855F



(A) TO FLARE GAS

Equip. No. \_\_\_\_\_ Prov. Reg. No. (A) 2987167 C.R.N. H-5197.1 Serial No. 93C-5080-01 Yr. Inst. \_\_\_\_\_  
 Code/Div. ASME VIII, DIV 1 Size: 42in x 36.5ft Manufacturer: ALCO GAS & OIL Yr. Blt. 1994  
 C. Stamp: U Service: SOUR PWHT: HT Radiography: RT-1 Insulated: NO

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. SA 516 70 N Top Nom. 48.3mm 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 70 N Nominal: 50.8mm C.A. 3.2mm  
 MAWP Shell Side: 9929 kPa @ Temp. 49°C  
 MAWP Tube Side: \_\_\_\_\_ @ Temp. \_\_\_\_\_

CLIENT	CANADIAN NATURAL RESOURCES LTD	
FACILITY	GRAHAM COMPRESSOR STATION LSD c-76-K/94-B-08	
ITEM	3 PHASE GLYCOL CONTACTOR	
BY: NR	DATE: 11/2008	DWG.# 23

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** 3 PHASE GLYCOL CONTACTOR  
**CRN#:** H-5197.1  
**PROV REG:** A 2987167  
**TESTED ON STREAM**

**FACILITY:** GRAHAM COMPRESSOR STN.  
**SERVICE:** SOUR  
**LOCATION:** c-76-K/94-B-08  
**RTD JOB #:** 10.112982  
**REFER TO DRAWING:** 23

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
2310												
Description: UPPER SHELL												
	2008	11	2013	4								
Min. Thick.	52.4		52.4		47.60		3.2	50.80	0		0	
Average:	52.5		52.5						0		0	
Analysis:												
2315												
Description: MID SHELL												
	2008	11	2013	4								
Min. Thick.	53.7		53.7		47.60		3.2	50.80	0		0	
Average:	54		54						0		0	
Analysis:												
2320												
Description: MID SHELL												
	2008	11	2013	4								
Min. Thick.	52.6		52.6		47.60		3.2	50.80	0		0	
Average:	52.9		52.9						0		0	
Analysis:												
2325												
Description: LOWER SHELL												
	2008	11	2013	4								
Min. Thick.	52.7		52.7		47.60		3.2	50.80	0		0	
Average:	52.8		52.8						0		0	
Analysis:												
2330												
Description: LOWER SHELL												
	2008	11	2013	4								
Min. Thick.	52.9		52.9		47.60		3.2	50.80	0		0	
Average:	53		53						0		0	
Analysis:												
2336												
Description: 2" 90° NOZZLE CIRC												
	2013		4									
Min. Thick.	8.7				5.50		3.2	8.70				
Average:	9								0		0	
Analysis:												

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** 3 PHASE GLYCOL CONTACTOR  
**CRN#:** H-5197.1  
**PROV REG:** A 2987167  
**TESTED ON STREAM**

**FACILITY:** GRAHAM COMPRESSOR STN.  
**SERVICE:** SOUR  
**LOCATION:** c-76-K/94-B-08  
**RTD JOB #:** 10.112982  
**REFER TO DRAWING:** 23

Test Point	THICKNESS DATA	Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
2337									
Description: 2" 90° NOZZLE									
	2013 4								
Min. Thick.	5	2.30	2.1	3.2	5.50				
Average:	7					0	0		2123
Analysis: 2013/04 ISOLATED PITTING @ DOWNSTREAM WELD.									

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** 3 PHASE GLYCOL CONTACTOR PIPING  
**CRN#:**  
**PROV REG:**  
**TESTED ON STREAM**

**FACILITY:** GRAHAM COMPRESSOR STN.  
**SERVICE:** SOUR  
**LOCATION:** c-76-K/94-B-08  
**RTD JOB #:** 10.112982  
**REFER TO DRAWING:** 23

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
<b>2305</b>												
Description: 8" 90° ELBOW												
	2008	11	2013	4								
Min. Thick.	12.8		12.8		11.11		1.6	12.70	0		0	
Average:	13.1		13.1						0		0	
Analysis:												
<b>2338</b>												
Description: 2" CIRC BAND												
	2013		4									
Min. Thick.	7.5				7.61	2.1	1.1	8.70				
Average:	8.5								0		0	
Analysis: 2013/04 GENERAL CORROSION THROUGHOUT. RETIREMENET DATE: 2099												
<b>2339</b>												
Description: 2" CIRC BAND												
	2013		4									
Min. Thick.	7.5				7.61	2.1	1.1	8.70				
Average:	7.8								0		0	
Analysis: 2013/04 GENERAL CORROSION THROUGHOUT. RETIREMENET DATE: 2099.												
<b>2345</b>												
Description: 2" 90° ELBOW												
	2008	11	2013	4								
Min. Thick.	4.5		4.5		3.41		.5	3.90	0		0	
Average:	4.8		4.8						0		0	
Analysis:												
<b>2350</b>												
Description: 2" 90° ELBOW												
	2008	11	2013	4								
Min. Thick.	3.6		3.6		3.41		.5	3.90	0		0	
Average:	3.9		3.9						0		0	
Analysis:												
<b>2355</b>												
Description: 2" 90° ELBOW												
	2008	11	2013	4								
Min. Thick.	4		4		3.41		.5	3.90	0		0	
Average:	4.2		4.2						0		0	
Analysis:												

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** 3 PHASE GLYCOL CONTACTOR PIPING  
**CRN#:**  
**PROV REG:**  
**TESTED ON STREAM**

**FACILITY:** GRAHAM COMPRESSOR STN.  
**SERVICE:** SOUR  
**LOCATION:** c-76-K/94-B-08  
**RTD JOB #:** 10.112982  
**REFER TO DRAWING:** 23

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
2360												
Description:	2" 90° ELBOW											
	2008	11	2013	4								
Min. Thick.	4.1		4.1		3.41		.5	3.90	0		0	
Average:	4.4		4.4						0		0	
Analysis:												
2365												
Description:	6" 90° ELBOW											
	2008	11	2013	4								
Min. Thick.	10.8		10.8		9.63		1.4	11.00	0		0	
Average:	11.1		11.1						0		0	
Analysis:												
2370												
Description:	6" 90° ELBOW											
	2008	11	2013	4								
Min. Thick.	11		11		9.63		1.4	11.00	0		0	
Average:	11.3		11.3						0		0	
Analysis:												