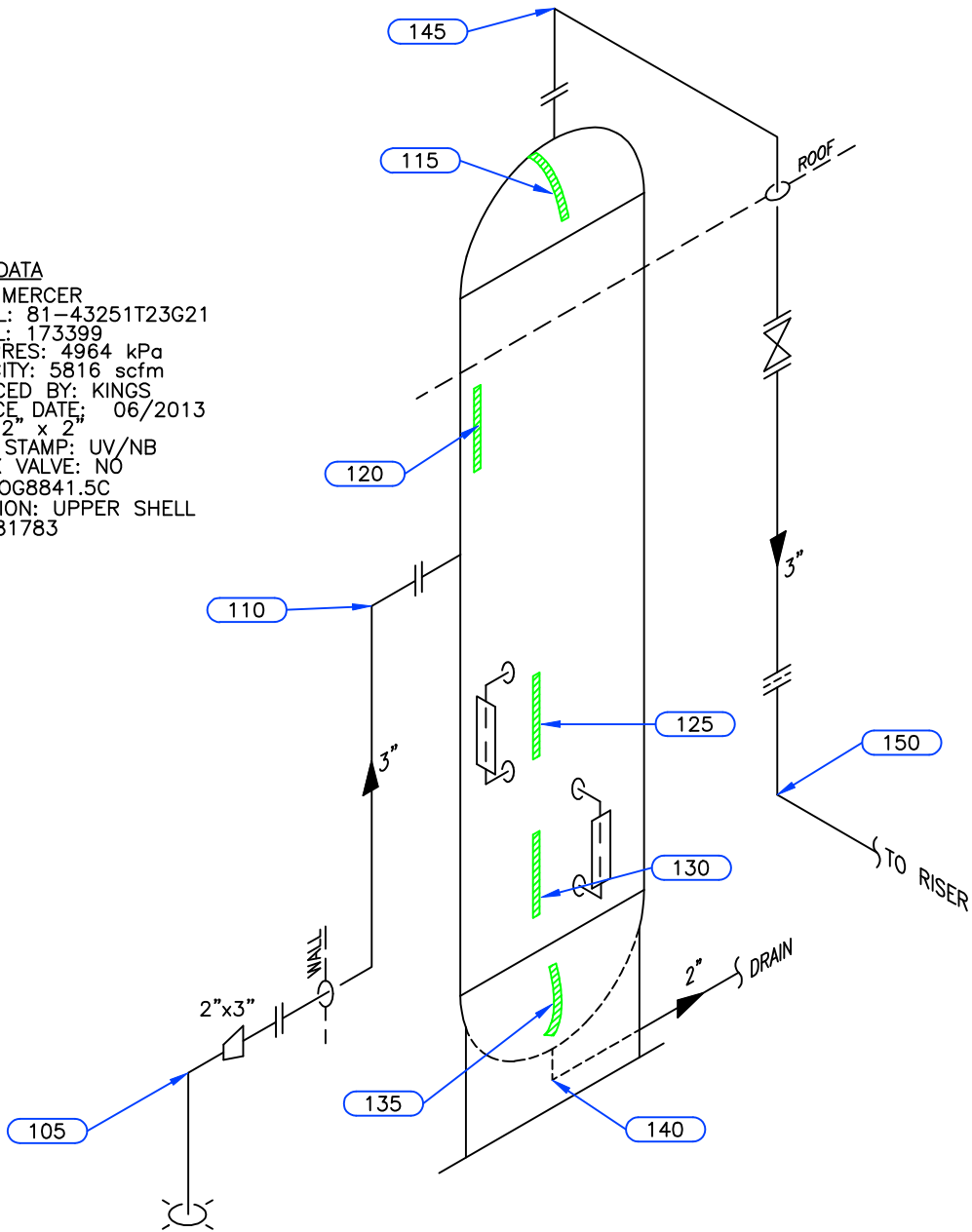


**PSV DATA**

MFG: MERCER  
 MODEL: 81-43251T23G21  
 SERIAL: 173399  
 SET PRES: 4964 kPa  
 CAPACITY: 5816 scfm  
 SERVICED BY: KINGS  
 SERVICE DATE: 06/2013  
 SIZE: 2" x 2"  
 CODE STAMP: UV/NB  
 BLOCK VALVE: NO  
 CRN: OG8841.5C  
 LOCATION: UPPER SHELL  
 TAG: 81783



Equip. No. N/S Prov. Reg. No. Ⓐ 2842068 C.R.N. K-9067.21 Serial No. 6000K-VOL Yr. Inst.       
 Code/Div. ASME VIII, Div 1 Size: 16in x 96in Manufacturer: NUSCO Yr. Blt. 1993  
 C. Stamp: U Service: SOUR PWHT: HT Radiography: RT-1 Insulated: NO

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. SA 516 70N Top Nom. 15.9mm 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 106 B Nominal: 16.7mm C.A. 3.2mm

MAWP Shell Side: 4964 kPa @ Temp. 49°C  
 MAWP Tube Side:      @ Temp.     

CLIENT	CANADIAN NATURAL RESOURCES LTD		
FACILITY	CLEARHILLS FIELD LSD 15-13-88-13 W6M		
ITEM	3 PHASE SEPARATOR		
BY: LO	DATE: 06/2007	DWG.# 115	

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** 3 PHASE SEPARATOR  
**CRN#:** K-9067.21  
**PROV REG:** A 282068  
**TESTED ON STREAM**

**FACILITY:** CLEARHILLS FIELD  
**SERVICE:** SOUR  
**LOCATION:** 15-13-88-13 W6M  
**RTD JOB #:** 10.113336  
**REFER TO DRAWING:** 115

Test Point	THICKNESS DATA						Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date	
115															
Description:	TOP HEAD														
	2010	7	2013	8											
Min. Thick.	15.5		15.7		12.70		3.2	15.90	0	0					
Average:	16.6		16.2						.13	.13					
Analysis:	08/2013 MIN SCAN @ NOZZLE														
120															
Description:	UPPER SHELL														
	2007	6	2010	7	2013	8									
Min. Thick.	15.9		15.9		15.6		13.50	8.0	3.2	16.70	.1	.05			
Average:	16.5		16.5		16.3						.06	.03		2054	
Analysis:															
125															
Description:	MID SHELL														
	2007	6	2010	7	2013	8									
Min. Thick.	16.8		16.8		16.8		13.50		3.2	16.70	0	0			
Average:	17.1		17.1		17.1						0	0			
Analysis:															
130															
Description:	LOWER SHELL														
	2007	6	2010	7	2013	8									
Min. Thick.	17.1		17.1		17.1		13.50		3.2	16.70	0	0			
Average:	17.4		17.4		17.4						0	0			
Analysis:															
135															
Description:	BOTTOM HEAD														
	2007	6	2010	7	2013	8									
Min. Thick.	15.2		15.2		15.2		12.70	7.9	3.2	15.90	0	0			
Average:	15.6		15.6		15.6						0	0		2076	
Analysis:	08/2013 MIN SCAN @ NOZZLE														
140															
Description:	2" 90° NOZZLE														
	2007	6	2010	7	2013	8									
Min. Thick.	10.7		10.4		10.4		7.90	1.6	3.2	11.10	0	.05			
Average:	11.2		10.9		10.9						0	.05			
Analysis:	08/2013 RETIREMENT DATE 2093														

# UTS DATA

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

**FACILITY:** CLEARHILLS FIELD  
**SERVICE:** SOUR  
**LOCATION:** 15-13-88-13 W6M  
**RTD JOB #:** 10.113336  
**REFER TO DRAWING:** 115

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
<b>105</b>												
Description:	<b>2" 90° ELBOW</b>											
	2013	8										
Min. Thick.	4.8		4.81	1.6	.7	5.50	0	0				
Average:	5.1						0	0				
Analysis:	08/2013 NEW POINT RETIREMENT DATE 2104											
<b>110</b>												
Description:	<b>3" 90° ELBOW</b>											
	2010	7	2013	8								
Min. Thick.	5.1	5	4.81	1.6	.7	5.50	.03	.03				
Average:	5.5	5.5					0	0				
Analysis:	08/2013 RETIREMENT DATE 2033											
<b>145</b>												
Description:	<b>3" 90° ELBOW</b>											
	2007	6	2010	7	2013	8						
Min. Thick.	7	5.8	5.3	6.65	1.6	1	7.60	.16	.28			
Average:	7.3	6.1	5.6					.16	.28			
Analysis:	08/2013 RETIREMENT DATE 2023											
<b>150</b>												
Description:	<b>3" 90° ELBOW</b>											
	2007	6	2010	7	2013	8						
Min. Thick.	5.9	5.9	5.8	4.81		.7	5.50	.03	.02			
Average:	6.1	6.1	6.1					0	0			
Analysis:												