



Equip. No. \_\_\_\_\_ Prov. Reg. No. **Ⓐ C 38596** C.R.N. **H-8265.231** Serial No. **L-8-356** Yr. Inst. \_\_\_\_\_  
 Code/Div. **ASME VIII, DIV 1** Size: **6ft x 24ft** Manufacturer: **NATCO** Yr. Blt. **1994**  
 C. Stamp: **U** Service: **SOUR** PWHT: **NIL** Radiography: **RT-4** Insulated: **50%**

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. **SA 516 70** Top Nom. \_\_\_\_\_ Top C.A. \_\_\_\_\_  
 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: \_\_\_\_\_ C.A. \_\_\_\_\_  
**MAWP Shell Side: 483 kPa** @ Temp. **93°C**  
**MAWP Tube Side: \_\_\_\_\_** @ Temp. \_\_\_\_\_

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	FLAT ROCK BATTERY LSD 15-20-85-17 W6M	
ITEM	HEAT TREATER	
BY: KB	DATE: 02/2011	DWG.# 16

# UTS DATA

**CLIENT:** CANADIAN NATURAL RESOURCES  
**EQUIPMENT:** HEAT TREATER  
**CRN#:** H-8265.231  
**PROV REG:** C 38596  
**TESTED ON STREAM**

**FACILITY:** FLAT ROCK BATTERY  
**SERVICE:** SOUR  
**LOCATION:** 15-20-85-17 W6M  
**RTD JOB #:** 105.01610  
**REFER TO DRAWING:** 16

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1610												
Description:	BOTTOM HEAD											
	2011 2											
Min. Thick.	14				0.00							
Average:	14.3							0	0			
Analysis:												
1615												
Description:	BOTOM BAND											
	2011 2											
Min. Thick.	8.4				0.00							
Average:	8.5							0	0			
Analysis:												
1620												
Description:	UPPER SHELL											
	2011 2											
Min. Thick.	8.7				0.00							
Average:	8.8							0	0			
Analysis:												
1625												
Description:	MID SHELL											
	2011 2											
Min. Thick.	8.8				0.00							
Average:	8.9							0	0			
Analysis:												
1630												
Description:	LOWER SHELL											
	2011 2											
Min. Thick.	8.6				0.00							
Average:	8.8							0	0			
Analysis:												
1635												
Description:	BOTTOM BAND											
	2011 2											
Min. Thick.	8.4				0.00							
Average:	8.6							0	0			
Analysis:												

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**FACILITY:** FLAT ROCK BATTERY  
**SERVICE:** SOUR  
**LOCATION:** 15-20-85-17 W6M  
**RTD JOB #:** 105.01610  
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Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1640												
Description:	BOTTOM HEAD											
	2011 2											
Min. Thick.	13.6				0.00							
Average:	14								0	0		
Analysis:												
1650												
Description:	3" 90° NOZZLE											
	2011 2											
Min. Thick.	7				6.60	1	7.60					
Average:	7.3								0	0		
Analysis:												
1655												
Description:	3" CIRC											
	2011 2											
Min. Thick.	6				4.80	.7	5.50					
Average:	6.2								0	0		
Analysis:												
1660												
Description:	3" 90° NOZZLE											
	2011 2											
Min. Thick.	7				6.60	1	7.60					
Average:	7.3								0	0		
Analysis:												
1675												
Description:	3" 90° NOZZLE											
	2011 2											
Min. Thick.	6.8				6.60	1	7.60					
Average:	7								0	0		2122
Analysis:												

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**PROV REG:**  
**TESTED ON STREAM**

**FACILITY:** FLAT ROCK BATTERY  
**SERVICE:** SOUR  
**LOCATION:** 15-20-85-17 W6M  
**RTD JOB #:** 105.01610  
**REFER TO DRAWING:** 16

Test Point	THICKNESS DATA				Flag	T-Min	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Retirement Date
1605												
Description: 4" 90° ELBOW												
2011 2												
Min. Thick.	6.9				5.25	.8	6.00					
Average:	7.1							0	0			
Analysis:												
1665												
Description: 3" 90° ELBOW												
2011 2												
Min. Thick.	5.8				4.81	.7	5.50					
Average:	6							0	0			
Analysis:												
1670												
Description: 3" 90° ELBOW												
2011 2												
Min. Thick.	7.6				4.81	.7	5.50					
Average:	7.9							0	0			
Analysis:												
1680												
Description: 2" 90° ELBOW												
2011 2												
Min. Thick.	4				3.41	.5	3.90					
Average:	4.5							0	0			
Analysis: 02/2011 MIN SCAN @ 6:00 O'CLOCK.												
1685												
Description: 3" 90° ELBOW												
2011 2												
Min. Thick.	5.7				4.81	.7	5.50					
Average:	6							0	0			
Analysis:												
1690												
Description: 3" 90° ELBOW												
2011 2												
Min. Thick.	5.9				4.81	.7	5.50					
Average:	6							0	0			
Analysis:												