



Equip. No. \_\_\_\_\_ Prov. Reg. No. Ⓐ C 36020 C.R.N. NON CODE Serial No. 3856-A Yr. Inst. \_\_\_\_\_  
 Code/Div. NON CODE Size: 60in x 20ft Manufacturer: ARGO SALES Yr. Blt. 2006  
 C. Stamp: N/S Service: SOUR PWHT: NIL Radiography: NIL Insulated: YES

**Design & Materials Data**

**HEAD:**  
 Top Mat'l. SA 36 Top Nom. 9.5mm 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 36 Nominal: 9.5mm C.A. 1.6mm  
 MAWP Shell Side: 103 kPa @ Temp. 38°C  
 MAWP Tube Side: \_\_\_\_\_ @ Temp. \_\_\_\_\_

CLIENT	CANADIAN NATURAL RESOURCES	
FACILITY	HALFWAY BATTERY LSD 05-12-87-25 W6M	
ITEM	LOW PRESSURE KNOCKOUT DRUM	
BY: JE	DATE: 04/2008	DWG.# 37A

# UTS DATA

**CLIENT** CANADIAN NATURAL RESOURCES  
**EQUIPMENT** L.P. FLARE KNOCK OUT DRUM  
**CRN:**  
**PROV REG** C 36020  
**TESTE** ON STREAM

**FACILITY** HALFWAY BATTERY  
**SERVICE** SOUR  
**LOCATION** 05-12-87-25 W6M  
**RTD JOB #** 105.00860  
**REFER TO DRAWING** 37A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
10												
Description:	BOTTOM SHELL											
	2008	4	2010	8								
Min. Thick.	9.5		9.5		7.9		1.6	9.5	0	0		L
Average:	9.6		9.6						0	0		L
Analysis:												
15												
Description:	BOTTOM SHELL											
	2008	4	2010	8								
Min. Thick.	9.5		9.5		7.9		1.6	9.5	0	0		L
Average:	9.6		9.6						0	0		L
Analysis:												
5												
Description:	BOTTOM SHELL											
	2008	4	2010	8								
Min. Thick.	9.6		9.6		7.9		1.6	9.5	0	0		L
Average:	9.7		9.7						0	0		L
Analysis:												

# UTS DATA

**CLIENT** CANADIAN NATURAL RESOURCES  
**EQUIPMENT** LOW PRESSURE KNOCKOUT DRUM PIPIN  
**CRN:**  
**PROV REG**  
**TESTE** ON STREAM

**FACILITY** HALFWAY BATTERY  
**SERVICE**  
**LOCATION** 05-12-87-25 W6M  
**RTD JOB #** 105.00860  
**REFER TO DRAWING** 37A

Test Point	THICKNESS DATA				Flag	Crit	C.A.	Nom.	Short Term	Long Term	Ave. mm/py	Flag Date
<b>20</b>												
Description: <b>2" 90° ELBOW</b>												
	2008	4	2010	8								
Min. Thick.	4.96		4.5		4.81	1.6	.7	5.5	.2	.2		L 2010
Average:	4.96		4.9						.03	.03		L 2014
Analysis: 08/2010 CRITICAL THICKNESS CALCULATIONS CARRIED OUT TO 0.0mm BUT CODE IS MAINTAINED AT 1.6mm.												