



Customer: CANADIAN NATURAL RES. Description: VERTICAL SEPARATOR

Facility: KNOPCIK SWEET Location: 08-03-74-10 W6M

Reg A#: 3177332 Serial #: 96-040 Drawing#: 1

CRN #: N1473.2 Manufacturer: ORBAN IND. Unit #: N/A Year Built: 1996

Shell MAWP: 10205 kPa Shell MAWT: 38°C Shell Material: SA 106 B Nominal: 21.4mm CA: 1.6mm

Tube "A" MAWP: \_\_\_\_\_ Tube "A" MAWT: \_\_\_\_\_ Head Material: N/S Nominal: 21.4mm CA: 1.6mm

Tube "B" MAWP: \_\_\_\_\_ Tube "B" MAWT: \_\_\_\_\_ Tube Material: \_\_\_\_\_ Nominal: \_\_\_\_\_ CA: \_\_\_\_\_

Size: 12" x 12' Manway: NO MDMT: -29°C Boot Shell Mat: \_\_\_\_\_ Nominal: \_\_\_\_\_ CA: \_\_\_\_\_

Insulated: NO C Stamp: NO RT: 2 PWHT: NO Boot Head Mat: \_\_\_\_\_ Nominal: \_\_\_\_\_ CA: \_\_\_\_\_

**PSV DATA**

Manufacturer: CONSOLIDATED Serviced By: UNIFIED

Model: 1870C2 Service Date: 5/2/2005

Serial: 76C1765 Code Stamp: UV

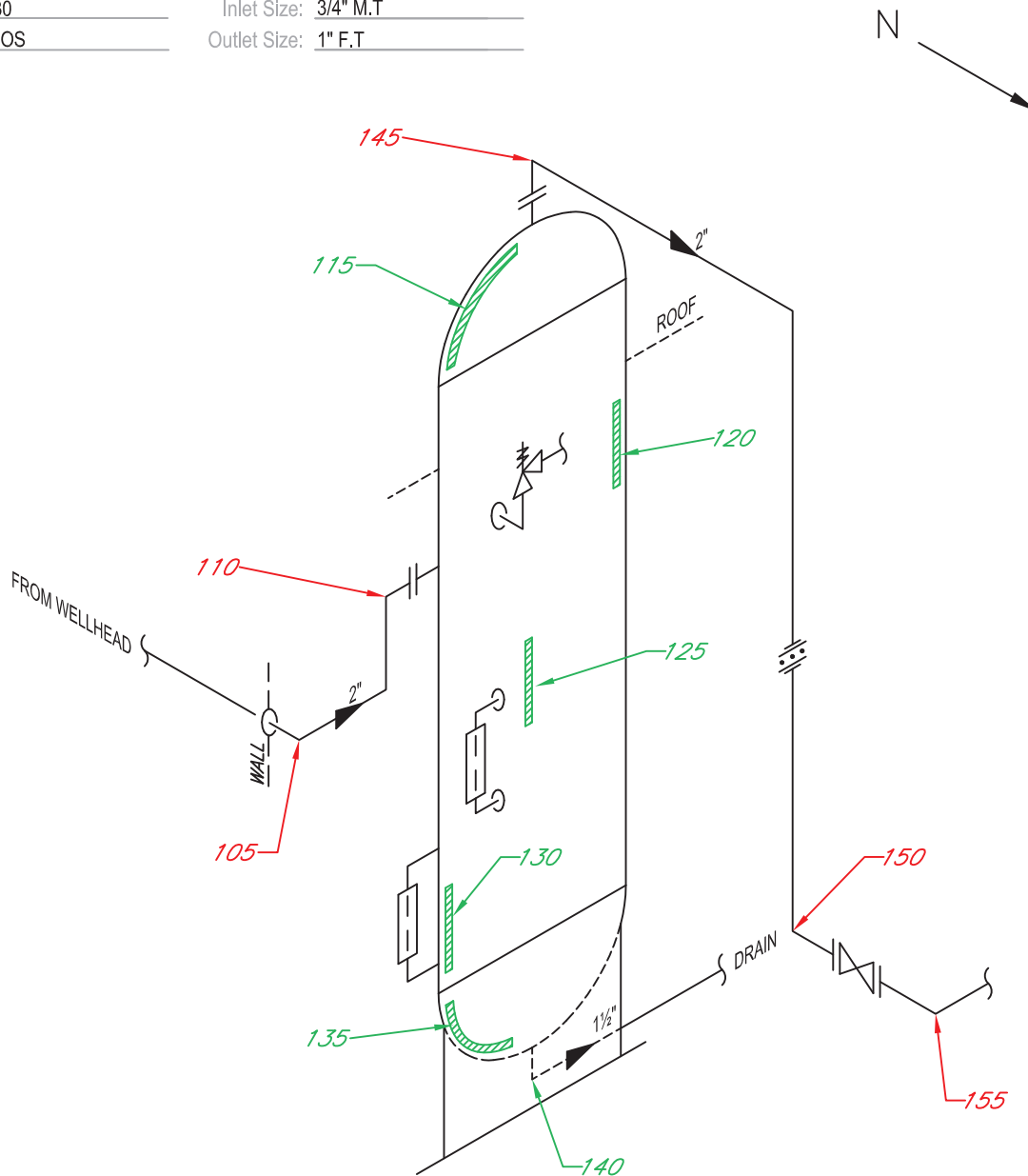
Set Pressure: 10205 kPa CRN: O1832.568912

Capacity: 2957 scfm Location: SHELL

Tag: SK-30 Inlet Size: 3/4" M.T

Flows To: ATMOS Outlet Size: 1" F.T

**NOTE: CORROSION ALLOWANCE AND HEAD NOMINAL ASSUMED.**





Client: **Canadian Natural Resources**  
 Facility: **Knopcik Sweet**  
 LSD: **08-03-74-10 w6m**  
 Equip Description: **Vertical Separator**  
 Reg A#: **3177332**  
 Drawing #: **1**

	Nominal Thickness (mm)	Corrosion Allowance (mm)	Flag Thickness (mm)
<b>105</b> Description: <b>2" 90° Elbow</b> Date: Nov 22, 11 Minimum: 4.8 Average: 5.2 Comments:	5.5	0.7	4.8
<b>110</b> Description: <b>2" 90° Elbow</b> Date: Nov 22, 11 Minimum: 4.6 Average: 5.0 Comments:	5.5	0.7	4.8
<b>115</b> Description: <b>Top Head</b> Date: Nov 22, 11 Minimum: 23.6 Average: 23.8 Comments:	21.4	1.6	19.8
<b>120</b> Description: <b>Upper Shell</b> Date: Nov 22, 11 Minimum: 21.0 Average: 21.4 Comments: <i>Nov 2011_Min scan at bottom of band.</i>	21.4	1.6	19.8
<b>125</b> Description: <b>Mid Shell</b> Date: Nov 22, 11 Minimum: 20.8 Average: 21.2 Comments: <i>Nov 2011_Min scan at top of band.</i>	21.4	1.6	19.8
<b>130</b> Description: <b>Lower Shell</b> Date: Nov 22, 11 Minimum: 20.8 Average: 21.4 Comments:	21.4	1.6	19.8
<b>135</b> Description: <b>Bottom Head</b> Date: Nov 22, 11 Minimum: 23.5 Average: 24.3 Comments: <i>Nov 2011_Min scan at knuckle.</i>	21.4	1.6	19.8
<b>140</b> Description: <b>1½" 90° Nozzle</b> Date: Nov 22, 11 Minimum: 5.9 Average: 6.4 Comments:	5.1	1.6	3.5



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 Drawing #: **1**

	Nominal Thickness (mm)	Corrosion Allowance (mm)	Flag Thickness (mm)
<b>145</b> Description: <b>2" 90° Elbow</b> Date: Nov 22, 11 Minimum: 4.8 Average: 5.1 Comments:	5.5	0.7	4.8
<b>150</b> Description: <b>2" 90° Elbow</b> Date: Nov 22, 11 Minimum: 4.7 Average: 5.1 Comments:	5.5	0.7	4.8
<b>155</b> Description: <b>2" 90° Elbow</b> Date: Nov 22, 11 Minimum: 4.5 Average: 5.1 Comments:	5.5	0.7	4.8