

FORM U-1A MANUFACTURERS' DATA REPORT FOR PRESSURE VESSELS
(Alternate Form for Single Chamber, Completely Shop-Fabricated Vessels Only)
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured by AND CERTIFIED BY DACRO INDUSTRIES LTD. A7-1615-0
 2. Manufactured for Home Oil Company Ltd.
 3. Location of Installation Miscible Flood Project Swan Hills, Unit #1
 4. Type HORIZ (Mfg's Serial No.) 85-071-1 (CRN) F-2910.2 (Drawing No.) A7-85-071-1-1 (Net'l Brd No.) Rev. 1 (Year Built) 1985
 5. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conform to ASME Rules, Section VIII, Division 1 1984 and Addenda to Summer (Date) and Code Case Nos. -
 Special Service per UG-120(d) -
 Manufacturers' Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: 7.9mm (1.6mm) (1067mm) (3048mm)
 6. Shell: Matl. SA-516-70 (Spec. No., Grade) Nom. Thk. .3125 in. Corr. Allow. .0625 in. Diam. 42 in. Lgth. 10 ft 0 in.
 7. Seams: Long. Dbl Butt (Welded, Dbl, Sngl, Lap, Butt) R.T. Spot (Spot or Full) Efficiency 85 % H.T. Temp. - F Time - hr
 Girth Welded Dbl Butt (Welded, Dbl, Sngl, Lap, Butt) R.T. Spot (Spot, Partial, or Full) No. of Courses 1
 8. Heads: (a) Material SA-516-70 (Spec. No., Grade) (b) Material SAME (Spec. No., Grade)

Location (Top, Bottom, Ends)	Min. Thk.	Corr. Allow.	Crown Radius	Knuckle Radius	Ellipse Ratio	Conical Apex Angle	Hemisph. Radius	Flat Diam.	Side to Pressure (Convex or Concave)
(a) <u>Left</u>	<u>.312</u>	<u>(7.9)</u>	<u>.0625</u>	<u>(1.6)</u>	<u>2:1</u>	<u>2:1</u>			<u>Concave</u>
(b) <u>Right</u>	<u>.312</u>	<u>(7.9)</u>	<u>.0625</u>	<u>(1.6)</u>	<u>2:1</u>	<u>2:1</u>			<u>Concave</u>

 If removable, bolts used (describe other fastenings) (-1207 KPA) 150°C
 9. Constructed for max. allowable working pressure 89 (Material, Spec. No., Gr., Size, No.) 301 psi at max. temp. 301 F. Min. temp. (when less than -20 F) - F. Hydrostatic, pneumatic, or combination test pressure 263 psi.
 10. Safety Valve Outlets: Number - Size - Location - 1810 KPA

11. Nozzles and Inspection Openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
<u>Manhole</u>	<u>1</u>	<u>20</u>	<u>150#RFWN</u>	<u>SA-516-70</u>	<u>.375</u>	<u>SA-516-70</u>	<u>Welded</u>	<u>Shell</u>
<u>In/Out</u>	<u>1</u>	<u>6</u>	<u>150#RFWN</u>	<u>SA-516-70</u>	<u>.375</u>	<u>SA-516-70</u>	<u>Welded</u>	<u>Shell</u>
<u>LG</u>	<u>2</u>	<u>3/4</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>.864</u>	<u>None</u>	<u>Welded</u>	<u>Shell</u>
<u>PSV</u>	<u>1</u>	<u>1 1/2</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>-</u>	<u>None</u>	<u>Welded</u>	<u>Head</u>
<u>Air Blanket</u>	<u>1</u>	<u>1</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>-</u>	<u>None</u>	<u>Welded</u>	<u>Shell</u>
<u>Fill</u>	<u>1</u>	<u>1 1/2</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>-</u>	<u>None</u>	<u>Welded</u>	<u>Shell</u>
<u>LSI</u>	<u>1</u>	<u>1</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>-</u>	<u>None</u>	<u>Welded</u>	<u>Shell</u>
<u>Drain</u>	<u>1</u>	<u>1</u>	<u>6000#SCRD CPLG</u>	<u>SA-105</u>	<u>-</u>	<u>None</u>	<u>Welded</u>	<u>Head</u>
							<u>Welded</u>	<u>Shell</u>

12. Supports: Skirt No (Yes or no) Lugs - (No.) Legs 2 (No.) Other - (No.) Attached - (Where and how)

13. Remarks: TAG: V-107 Expansion Tank CAP; 109KPa³ 3.04M³

CERTIFICATE OF COMPLIANCE
 We certify that the statements made in this report are correct and that all details of design, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.
 Date Feb 19/85 Signed DACRO INDUSTRIES LTD. (Manufacturer) by Shirley D. [Signature] (Representative)
 "U" Certificate of Authorization No. 14379 expires March 5th 1986

CERTIFICATE OF SHOP INSPECTION
 Vessel made by DACRO INDUSTRIES LTD. at NISKU
 I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of ALBERTA and employed by SAME have inspected the pressure vessel described in this Manufacturers' Data Report on Feb 19 1985, and state that to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1. By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.
 Signed [Signature] (Inspector) Date 85/2/19 Commissions alta (Net'l Board, State, Province and No.)