

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

74-116

1. Manufactured and certified by WELLS-HALL FABRICATION & CONSTRUCTION LTD, 6115-30 ST., EDMONTON, ALTA  
(Name and address of manufacturer)

2. Manufactured for LADD EXPLORATION CO., 707 - 7<sup>TH</sup> AVE. S.W., CALGARY, ALTA  
(Name and address of purchaser)

3. Location of Installation HAYTER-DINA 10-16-41-1W4M  
(Name and address)

4. Type HORIZONTAL 88-3568-0 H-2078.2 39-A-3568-16 - 1987  
(Style, or vert., tank) (Mfg.'s serial No.) (CRN) (Drawing No.) (Wkt. Bd. No.) (Year built)

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 1986  
Year

to ADD 1 WINTER 86  
Addenda (Date)

6. Shell: SA-516-70 .375" (9.53) NIL 119.25" (3029) 35'-0" (10668)  
Mat. (Spec. No., Grade) Nom. Thk. (mm) Corr. Allow. (mm) Diam. I.D. (mm) Length (overall) (mm)

7. Seams: EQUIV. DBL. BUTT FULL 100 - - EQUIV. DBL. BUTT UW-11a5(b) 4  
Long. (Welded, Dbl., Engr., Lap, Butt) R.T. (Spot or Full) EN. (N) H.T. Temp. (°C) Time (hr) Girth (Welded, Dbl., Engr., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. RIGHT (FIRE TUBE END) SA-516-70 (b) Matl. LEFT SA-516-70  
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness <sup>mm</sup>	Corrosion Allowance	Crown Radius <sup>mm</sup>	Knuckle Radius <sup>mm</sup>	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	R. END	.496 12.60	NIL	120 3048	8 203.2					CONCAVE
(b)	L. END	.361 9.17	NIL	120 3048	8 203.2					CONCAVE

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 50 PSIG 345 kPa at max. temp. 250°F 121 °C  
 Min. temp. (when less than -30°C) - °C. Hydro., pneu., or comb. test pressure 75 PSIG 517 kPa

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
FIRE TUBE NECK	2	19" X 46 1/2"	FAB	SA-516-70	.625" (15.88)	-	WELDED	HEAD
MANWAY	3	16" (406)	FAB	SA-106-B	.375" (9.53)	-	WELDED	SHELL
ANODE	2	4" (101.3)	PIPE	SA-53-B	SCH 80	-	WELDED	SHELL
GAS OUT	1	3" (88.9)	RFWN	SA-105	150#	-	WELDED	MANWAY COVER

11. Supports: Skirt No Lugs - Legs 2 Other - Attached WELDED TO SHELL  
(Yes or no) (No.) (No.) (Describe) (Where and how)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: \_\_\_\_\_  
(Name of part, item number, Mfg.'s name and identifying stamp)

120" OD X 35'-0" S/S HORIZONTAL TREATER  
VOL = 2817.8 FT<sup>3</sup> (79.79 M<sup>3</sup>)  
EST. SHIPPING WT = 31,000 LBS (14901 KG)

**CERTIFICATE OF SHOP 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. "U" Certificate of Authorization No. 19595 expires JULY 31, 1990.  
 Date Dec 4/87 Co. name WELLS-HALL FAB & CONSTR. LTD. Signed [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by WELLS-HALL FAB. & CONSTR. LTD. at EDMONTON, ALBERTA

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 ALBERTA LABOUR BOILERS BRANCH have inspected the component described in this Manufacturer's Date Report on Dec 4, 1987, 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 this Manufacturer's Date 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.

Date Dec 4/87 Signed [Signature] Commissions [Signature]  
(Authorised Inspector) (National Board (incl. endorsements), State, Prov. and Terr.)

FORM U-4 MA FACTURER'S DATA REPORT SUPPLEMENTARY SHEET  
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A245115

1. Manufactured and certified by WELLS-HALL FAB. & CONSTR. LTD., 6115-30 ST., EDMONTON, ALBERTA  
(Name and address of manufacturer)
2. Manufactured for LADD EXPLORATION Co., 707-7TH AVE., S.W., CALGARY, ALTA  
(Name and address of purchaser)
3. Location of installation HAYTER-DINA 10-16-41-1W4M  
(Name and address)
4. Type HORIZONTAL TREATER 87-3568-0 H-2078.2 39-A-3568-6 - 1987  
(Material, vols., tech., etc.) (Order's serial No.) (CRN) (Draw) (Nat'l. Bd. No.) (Year built)

Date Report  
Item Number

Remarks

Date Report	Item Number	Remarks
	4	3" (88.9) RFWN SA-105 150# WELDED TO SHELL
	1	3" (88.9) CPLG " 3000# " "
	3	2" (60.3) RFWN " 130# " "
	5	2" (60.3) CPLG " 3000# " " & MANWAY COVERS
	4	1" (33.4) " " " " " "
	11	3/4" (26.7) " " " " " "
	3	1/2" (21.3) " " " " " "
	6	1/2" (48.3) " " " " " "
	2	4" (114.3) RFWN " 150# " "
	1	24" ( ) FAB SA-106-B SCH STD 1.375" " HEAD

Date Dec 4 1987 Co. name WELLS-HALL FAB. & CONSTR. LTD. Signed [Signature]  
(Manufacturer) (Representative)

Date Dec 4/87 Signed [Signature] Commissions Alberta  
(Authorized Inspector) (Nat'l. Board (incl. endorsements), State, Prov., and No.)