

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

P. 212510
PO-8402-3100-
V-102

1. Manufactured and certified by MALONEY STEEL LTD. 8825 Shepard Road S.E., Calgary, Alberta T2H 1X1
(Name and address of manufacturer)
2. Manufactured for HOME OIL CO. LTD. c/o PHOENIX CONSTRUCTORS LTD. 350-10333 Southport Rd. S.W., Calgary, Alberta T2W 3X6
(Name and address of purchaser)
3. Location of installation Swan Hills Miscible Flood Project
(Name and address)
4. Type Horizontal 84-9148-A F-2556.2 9148-A --- 1985
(Horiz or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l 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 1983
to (S84) June 30
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: SA-516-70 - N 2.875" (73.02) 0.126" (3.2) 5'-0" (1524) ID 22'-0" (6706)
(Mat'l. Spec. No., Grade) (Nom. Thk. (in.)) (621°C) (in.) (Diam. I.D. (ft. & in.)) (Length overall (ft. & in.))
7. Seams: D. Butt Full 100% 1150°F 2HR.15Min. D. Butt Full 2
(Long. (Welded, Dbl. Sngl. Lap, Burt)) (R.T. (Spot or Full)) (E.H. (%)) (H.T. Temp. (°F)) (Time (hr)) (Girth (Welded, Dbl. Sngl. Lap, Burt)) (R.T. (Spot, Partial, or Full)) (No. of Course)
8. Heads: (a) Mat'l. SA-516-70N (b) Mat'l. SA-516-70N
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flar Diameter	Side to Pressure (Convex or Concave)
(a)	F. Head	2.696"	0.126"			2:1 SE				Concave
(b)	B. Head	(68.48)	(3.2)							Concave

If removable, bolts used (describe other fastenings) ---

9. MAWP (10,200 KPa) 1480 psi at max. temp. (37.7/-45.5°C) 100/-50
Min. temp. (when less than -20°F) (37.7/-45°C) 100/-50 °F. Hydro., pneu., or comb. test pressure (15,300 Kpa) 2220 p
10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Mat'l.	Nom Thk.	Reinforcement Mat'l.	How Attached	Location
Manway	1	18"	RFHWN	SA-350-LFII	600#		Welded	Shell
Inlet	1	8"	RFHWN	SA-350-LFII	600#		Welded	Shell
Outlet	1	8"	RFHWN	SA-350-LFII	600#		Welded	Shell
Drain	1	2"	RFHWN	SA-350-LFII	600#	XXH Bore	Welded	Shell

11. Supports: Skirt NO Lugs NO 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: ---

Inlet Surge Tank V-102
Volume: 470 cubic feet (13.3 cubic metres)
(Name of part, item number, Mfr's name and identifying stamp)

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. 15742 expires May 05, 1986.
Date 03/19/85 Co. name MALONEY STEEL LTD. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Maloney Steel Ltd. at Calgary, 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 Boilers Branch
have inspected the component described in this Manufacturer's Data Report on March 20, 19 85, 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 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.
Date 30/3/85 Signed [Signature] Commissions ---
(Authorized Inspector) (National Board (incl. endorsements), State, Prov. and No.)

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

1. Manufactured by MALONEY STEEL LTD. 8825 Shepard Road S.E., Calgary, Alberta T2J 2T2
(Name and address of manufacturer)

2. Manufactured for HOME OIL CO. Ltd. c/o PHOENIX CONSTRUCTORS LTD., 350-10333 Southport
(Name and address of purchaser)

3. Location of Installation Swan Hills Miscible Flood Project Calgary, Alberta T7X 1A1
(Name and address)

4. Type Vertical Surge Tank Vessel Number 84-9148-A F-2556.2 9148-A
Horiz. Vert. Tank, etc. Mfg. serial CRN Dwg Nat'l. Brd. No.

Year Built 1985

PURPOSE	Data Report		TYPE	MAT'L.	THK.	Remarks	
	NO.	DIAM.				ATTACHED	LOCATION
VAPOUR OUT	1	2"	RFLWN	SA-350-LFII	600# XXH Bore	Welded	Shell
SPARE	2	3"	RFHWN	SA-350-LFII	600#	Welded	Shell
STEAM OUT	2	2"	RFLWN	SA-350-LFII	600# XXH Bore	Welded	Shell
BRIDLE	2	3"	RFHWN	SA-350-LFII	600#	Welded	Shell

Date 00/10/85 MALONEY STEEL LTD. Signed [Signature]
Manufacturer

Date 20/3/85 Authorized Inspector's Signature [Signature] Commissions
Natl. Board, State, Province and No.