

A157979

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

A157979

1. Manufactured and certified by Vada Ind. Steel-Flo Div. 100 Stockton Avenue Okotoks, Alta
(Name and address of manufacturer)
2. Manufactured for Cord Projects 517 - 10333 Southport Rd. Calgary, Alberta
(Name and address of purchaser)
3. Location of installation U User-Western Decalta L.S.D. -10-12-19-2-W5M
(Name and address)
4. Type Horizontal 1668-202A F1008.2 SFV 1668-202 Rev.3 1984
(Model or cert. tank) (Mfg's serial No.) (CRN) (Drawing No.) (Year of cert.) (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 Winter 1983
(Addenda (Date)) (Code Case Nos.) (Special Service per UG 120.4)

6. Shell: SA 516-70 .875 .063 11' 10 1/2" 46' 0"
(Mat'l Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. x D (ft. & in.)) (Length overall (ft. & in.))
7. Seams: DBL Butt Full 1.0 N/A N/A DBL Butt Partial 4
(Long. (Welded, Dbl. Sngl. Lap, Butt)) (R.T. (Spot or Full)) (ET. (%)) (H.T. Temp. (F)) (Time (hr)) (Girth (Welded, Dbl. Sngl. Lap, Butt)) (R.T. (Spot or Full)) (No. of Courses)
8. Heads: (a) Mat'l. SA 516-70 (Spec. No., Grade) (b) Mat'l. _____ (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Concave or Convex)
(a)	Ends	.776	.063			2:1			12'	Concave
(b)										

If removable, bolts used (describe other fastenings): _____

9. MAWP Int'l -175/Ext'l -15 160 psi at max. temp. 263 °F
Min. temp. / when less than -20°F _____ °F. Hydro., pneu., or comb. test pressure _____ psi.

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
See Remarks								

11. Supports: Skirt No Lugs 2 Legs 2 Other 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: See attached U4 form for Item 10 / See attached U2 Form For Item 8 (Heads)
(Name of part, item number, Mfg's name and identifying stamp)

Volume = 4367 Ft³

Cord Project P.O. CPL -177-2000-1

Butane storage Tank

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. 18,160 expires Jan 6, 19 86.
Date Dec 3/84 Co. name Vada Ind. Steel-Flo Div. Signed [Signature] (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Vada Ind. Steel-Flo Div. at 100 Stockton Ave. Okotoks

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 General Safety Services, Boilers Branch

have inspected the component described in this Manufacturer's Data Report on Dec 3, 19 84, 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 DEC 3, 84 Signed [Signature] (Authorized Inspector) Commission No. _____ (National Board and/or State, Provincial and No.)

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

(A) 157979

1. Manufactured and certified by Vada Ind. Steel-Flo Div. 100 Stockton Ave. Okotoks, Alberta

Market and addition of manufacturers

2. Manufactured for Cord Projects 517 - 10333 Southport Rd. Calgary, Alberta

(Name and address of customer)

3. Location of installation: User - Western Decalta L.S.D. -10-12-19-2-W5M

(Name and address)

4 Type Horizontal

(phone: 201-261-8161)

1668-202A

(After's capital No 1)

F1008.2

(CRN)

SFV 1668-202

(Over)

Rev-3

1987, 2nd, No. 1

1984

1 Year Guarantee

Data Report

Item Number

10

Remarks

Nozzle Schedule

Purpose	No.	Diam Size	Type	Material	Nom Thk.	Reinforce Mat'l	How Att	Location
Inlet/Vent/Drain/Spare	4	2"	RFWN	SA 106 B	.343	Weld Metal	Welded	Shell
Outlet	1	8"	RFWN	SA 106 B	.500	SA 516-70	Welded	Shell
Bridle/PSV	4	4"	RFWN	SA 105	.531	Weld Metal	Welded	Shell
Temp. Conn.	1	1"	CPLG	SA 105	6000#	Weld Metal	Welded	Shell
2nd Outlet	1	6"	RFWN	SA 106 B	.432	SA 516-70	Welded	Shell
Manway	1	20"	RFWN	SA 106 B	.500	SA 516-70	Welded	Shell

Date DEC 3 1984

Co. name Vada Ind. Steel-Elo Div.

Signed

DATE DEC 3 1984

Signed

Commissions

Plan Board and Investments: State, Fed. and Rep.

(12/82)

This form (EOQ118) is available from the Order Dept., ASME, 345 E. 47 St., New York, N.Y. 10017

FORM U-2 MANUFACTURERS' PARTIAL DATA REPORT

A part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

CERTIFIED &

1. (a) Manufactured by HACKNEY, INC. PO BOX 938 NAVASOTA, TEXAS 77868
(b) Manufactured for STEEL FLO DIV VERITAS RESOUREC SVC LTD PO BOX 850 OKOTOKS ALB CAN
2. 5916 NA N13118-04 NA 1984
(Mfgs. Ser. No. of Part) (CRN) (Dwg.) (Nat'l Bd. No. of Part) (Year Built)
3. (a) Drawing Prepared by HACKNEY, INC.
(b) Description of Part Inspected TWO (2) PIECE HEAD CONST
4. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to ASME Rules, Section VIII, Division 1, 1983
(Year)
- and Addenda through _____ (Date) and Code Case No. _____

5. Special Service per UG-120(d) _____
6. Postweld Heat Treatment: Temperature 1125 °F. Time 60 MINUTES
Items 7-12 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

7. Shell: Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. (ft. & in.) Length (over all) (ft. & in.)
8. Seams: Longitudinal (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. ciency _____ %
H.T. Temp. _____ °F. Time _____ (Hr.) Girth _____ (Welded, Dbl., Sngl., Lap, Butt)
R.T. _____ No. of Courses _____
(Spot, Partial, Or Full)

9. Heads (a) Material SA516-70 (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	HD #1	.776		128	24.52	2:1				
(b)										

If removable, bolts used (describe other fastenings) _____ (Material, Spec., No., Grade, Size, No.)

10. Type of Jacket _____ Proof Test _____
11. Jacket Closure _____ If bar, give dimensions _____
(Describe as type & weld, bar, etc.)
If bolted, describe or sketch.

12. Constructed for max. allowable working pressure _____ psi at max. temp. _____ °F. Min. temp. _____ °F.
(when less than -20°F.) _____ °F. Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items 13 and 14 to be completed for tube sections

13. Tubesheets: Stationary Matl. (Spec. No., Grade) Diam. (in.) (Subject to pressure) Nom. Thk. (in.) Corr. Allow. (in.) Attach. (Weld, Bolted)
Floating Matl. (Spec. No., Grade) Diam. (in.) Nom. Thk. (in.)

14. Tubes: Material _____ O.D. _____ in. Nominal Thickness _____ in. or gauge
Number _____ Type _____ (Straight or "U")
DATE _____

Items 15-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

15. Shell: Material _____ Nominal Thickness _____ in. Corrosion Allowance _____ in.
(Spec. No., Grade)
Diam. _____ ft. _____ in. Length _____ ft. _____ in.

16. Seams: Longitudinal (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Efficiency _____ %
H.T. Temp. _____ °F. Time _____ (Hr.) Girth _____ (Welded, Dbl., Sngl., Lap, Butt) R.T. No. of Courses _____
(Spot, Partial or Full)

17. Heads: (a) Material _____ (b) Material _____
(Spec. No., Grade) (Spec. No., Grade)

	Location (Top Bottom, End)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)										
(b)										

18. Constructed for max. allowable working pressure _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F.) _____ °F. Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items below to be completed for all vessels where applicable

19. Safety Valve Outlets: Number.

Size

Location

20. Nozzles:

[illegible]

21. Inspection Openings:

Manholes No. _____ Size _____ Location _____

Handholes No. _____ Size _____ Location _____

Threaded No. 10-32 Size 1/2 Location 10-32

22. Supports: Skirt _____ Lugs _____ Lens _____ Other _____
(Yes or No) (No.) (No.) (Describe)

Attached _____ (Where and how)

23. Remarks: 144 OD 1 NOM .776 MIN ELIP SA516-70 HEAD

DOUBLE BUTT WELD

100% - X-RAY

~~CODE - NFAR/WELI~~

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date: 7/26/84 Signed HACKNEY, INC. by *Carol Ann Miller*
(Manufacturer) (Representative) ADV. HACKNEY

"U" Certificate of Authorization No. 11,008 expires JUNE 30TH, 19 86

CERTIFICATE OF SHOP INSPECTION

1, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of TEXAS and employed by EMPLOYERS CASUALTY CO

of DALLAS, TEXAS have inspected the part of a pressure vessel described in this
Manufacturer's Partial Data Report on JULY 26, 19 84 and state that, to the best of my knowledge and

belief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial 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 7/30/84

Signed Steph Lamb
(Authorized Inspector)

Commissions Texas 915
(Natl. Board, State Province and No.)

A-157979

FORM U-2 MANUFACTURERS' PARTIAL DATA REPORT
A part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A-157979

CERTIFIED &

1. (a) Manufactured by HACKNEY, INC. PO BOX 938 NAVASOTA TEXAS 77868
(b) Manufactured for STEEL FLO DIV VERITAS RESOUREC SVC LTD PO BOX 850 CKOTOKS ALB CAN
2. 5917 NA N13118-04 NA 1984
(Mfgs. Ser. No. of Part) (CRN) (Cwg.) (Nat'l Bd. No. of Part) (Year Built)
3. (a) Drawing Prepared by HACKNEY, INC.
(b) Description of Part Inspected TWO (2) PIECE HEAD CONST
4. The chemical and physical properties of all parts meet the requirements of material specifications of the ASME Boiler and Pressure Vessel Code. The construction and workmanship conform to ASME Rules, Section VIII, Division 1, 1983
(Year)
and Addenda through _____ and Code Case No. _____
(Date)

5. Special Service per UG-120(d) _____
6. Postweld Heat Treatment: Temperature 1125 °F. Time 60 MINUTES

Items 7-12 incl. to be completed for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

7. Shell: _____
Mat'l. (Spec. No., Grade) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Diam. (ft. & in.) _____ Length (over all) (ft. & in.) _____
Efficiency _____ %
8. Seams: Longitudinal _____ R.T. _____
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)
H.T. Temp. _____ °F. Time _____ Girth _____
(Hr.) (Welded, Dbl., Sngl., Lap, Butt)
R.T. _____ No. of Courses _____
(Spot, Partial, Or Full)

9. Heads (a) Material SA516-70 (b) Material _____
(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	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	HD #2	.776		128	24.52	2:1				
(b)										

If removable, bolts used (describe other fastenings) _____
(Material, Spec., No., Grade, Size, No.)

10. Type of Jacket _____ Proof Test _____
11. Jacket Closure _____ If bar, give dimensions _____
(Describe as ogee & weld, bar, etc.)

- If bolted, describe or sketch. _____
12. Constructed for max. allowable working pressure _____ psi at max. temp. _____ °F. Min. temp. _____
(when less than -20°F.) _____ °F. Hydrostatic, pneumatic, or combination test pressure _____ psi.

Items 13 and 14 to be completed for tube sections

13. Tubesheets: _____
Stationer Mat'l (Spec. No., Grade) _____ Diam. (in.) (Subject to pressure) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Attach (Weld, Bolted)
Floating Mat'l (Spec. No., Grade) _____ Diam. (in.) _____ Nom. Thk. (in.) _____ Corr. Allow. (in.) _____ Attach _____

14. Tubes: Material _____ O.D. _____ in. Nominal Thickness _____ in. or gauge
(Spec. No., Gr.)
Number _____ Type _____
(Straight or "U")

Items 15-18 incl. to be completed for inner chambers of jacketed vessels or channels of heat exchangers

15. Shell: Material _____ Nominal Thickness _____ in. Corrosion Allowance _____ in.
(Spec. No., Grade)
Diam. _____ ft. _____ in. Length _____ in.
16. Seams: Longitudinal _____ R.T. _____
(Welded, Dbl., Sngl., Lap, Butt) (Spot or Full)
H.T. Temp. _____ °F. Time _____ Girth _____
(Hr.) (Welded, Dbl., Sngl., Lap, Butt) R.T. _____ No. of Courses _____
(Spot, Partial or Full)
17. Heads: (a) Material _____ (b) Material EXTENSIONS
(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	Flat Diameter	Side to Pressure (Convex or Concave)
(a)										
(b)										

18. Constructed for max. allowable working pressure _____ psi at max. temp. _____ °F. Min. temp. (when less than -20°F.) _____
_____ °F. Hydrostatic, pneumatic, or combination test pressure _____ psi.

19. Safety Valve Outlets: Number _____ Size _____ Location _____

20. Nozzles _____

[illegible]

21. Inspection Openings:

Manholes No.	Size	Location
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Handgloves No. _____ Size _____ Location _____

Threaded No. _____ Size _____ Location _____

22. Support: Shirt _____ Lugs _____ Legs _____ Other _____
(Yes or No) (No.) (No.) (Describe)

Attached _____
(Where and how)

23. Remarks: 144 OD 1 NOM .776 MIN ELIP SA516-70 HEAD

DOUBLE BUTT WELD

100% X-RAY

CODE WEGT/WFAR

CERTIFICATE OF COMPLIANCE

We certify that the statements made in this report are correct and that all details of material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

Date 7/26/84 Signed HACKNEY, INC. by Cory Hacker
(Manufacturer) Representative DADY HACKED

"U" Certificate of Authorization No. 11,008 expires JUNE 30TH, 19 86.

CERTIFICATE OF SHOP INSPECTION

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 TEXAS and employed by EMPLOYERS CASUALTY CO

of DALLAS, TEXAS have inspected the part of a pressure vessel described in this

Manufacturer's Partial Data Report on JULY 26, 19 84, and state that, to the best of my knowledge and

Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial 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.

7/30/94

[Signature]
(Authorized Inspector)

Commissions TEXAS 915
(State, Board, State Province and No.)