

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

483169

1. Manufactured and certified by: NATCO CANADA LTD. 9423 SHEPARD RD. SE CALGARY, AB T2H 1X6
(Name and address of manufacturer)
2. Manufactured for: TALISMAN ENERGY 2400, 855 - 2 ST. SW CALGARY, AB
(Name and address of purchaser)
3. Location of installation: Saltaneth b-100-H/94-1-12
(Name and address)
4. Type: VERTICAL (Horiz. or Vert. Tank) 7773-32 (Mfr.'s Serial No.) P7788.21/A4654.3 (CRN) RD-3224-02 Rev 0 (Dwg. No.) 2002 (Year t...)

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 1998 Year

6. Steel: SA 516-70N (Mat. Spec. No., Grade) 1.125" (Nom. Thk. (in.)) 0.125" (Corr. Allow. (in.)) 1' 9 3/4" (Diam. I.D. (ft. & in.)) 28' 0" S/S (Length (overall) (ft. & in.))
to 100 (Addenda (Date)) N/A (Code Case No.) N/A (Special Service per UG-120(d))

7. Seams: TYPE 1 Long (Welded, Dbl., Singl., Lap, Butl) FULL R.T. (Spot or Full) 100% Eff. (%) 1150°F H.T. Temp. (°F) 1 Hr 15 min Time (hr)
TYPE 1 Girth (Welded, Dbl., Singl., Lap, Butl) FULL R.T. (Spot, Partial or Full) 100% Eff. (%) 1150°F H.T. Temp. (°F) 1 Hr 15 min Time (hr)

8. Heads (a) Matl. SA 516-70N (Spec. No., Grade) SA 516-70N (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) TOP	1.060	0.125			2:1				CONCAVE
b) BTM	1.060	0.125			2:1				CONCAVE

If removable, bolts used (describe other fastenings)

9. MAWP 1440 psi at max. temp. 130 °F
Min. design metal temp. -20 °F at 1440 psi. Hydro., pneu., or comb. test pressure 2160 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Material	How Attached	Location
SEE ATTACHED U-4 FORM								

11. Supports: Skirt YES (Yes or no) YES Lugs Nil (No.) Nil Legs Nil (No.) N/A Other N/A Attached BTM HD WFL DEED (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:

VERTICAL 3-PHASE CONTACTOR
IMPACT TEST EXEMPT PER UCS-66(a) & UG-200(D) 1-5
FAB DRG #: D-7773-32 Rev0
(Name of part, item number, Mfr.'s name and identifying stamp)
VOLUME: 74.7 CuFt

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. 11313 Expires SEPT. 9, 2004

Date: Feb 21, 2002 Co. Name: NATCO CANADA LTD. (Manufacturer)
Signed: [Signature] (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by: NATCO CANADA LTD. at CALGARY, ALBERTA

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors for the State of ALBERTA and employed by Alberta Boiler Safety Association, have inspected the component described in this Manufacturer's Data Report on FEB 21, 2002 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: FEB 20 2002 Signed: [Signature] (Authorized Inspector)
Commissions: ALBERTA (Nat'l Board (incl. endorsements), State, Prov. and No.)

691349

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

1. Manufactured and Certified by Natco Canada Ltd. 9423 Sheppard Rd. S.E. Calgary, AB. T2C 1E2
2. Manufactured for TALISMAN ENERGY 2400, 855 - 2 ST. SW CALGARY, AB
(Name and address of manufacturer)
3. Location of Installation Saltanah b-100-H/94-1-12
(Name and address of purchaser)
4. Type VERTICAL
(HORIZ., VERT., or Sphere)
- P-7788.21/A4654.3
(CRN)
- CONTACTOR
(Tank, separator, heat exch., etc.)
- 7773-32
(Mfg's. serial no.)
- 2002
(Year built)
- RD-3224-02 Rev0
(Drawing No.)
- (Nat'l Bld. No.)

Data Report Item Number

[illegible]

Certificate of Authorization:

Type: "U"No. 11,313**Expires: SEPT. 9, 2004.**

4/12/74

Date: Feb. 21, 2002

Natco Canada Ltd.
(Manufacturer)

Signed:

(Representative)

Representative)

Date: FEB 21 2002

Name:

(Authorized Inspector)

Commission

(Nail Board incl. endorsements, State. Prov. and No.)

Shop Order #: 7773-32