

(A) 570820

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

1. Manufactured and certified by Petro Field Industries Inc. 3236 50th Ave S.E. Calgary Alberta T2B 3A3
(Name and address of Manufacturer)

2. Manufactured for Tornado Technologies Inc. Box 1390 Stettler, Alberta T0C 2L0
(Name and address of Purchaser)

3. Location of installation Stock

4. Type Horiz. T7-0017 U 0110.2 CRN-72-50-S-T-02 R1 N/A 2007
(Horiz. Or vert., tank) (Mfg's serial No.) (CRN) (Drawing No.) (Natl. 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 2004
Year

to 2005 N/A N/A
Accidenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA 516 70N 0.375" 0.125" 5'-11.250" 15'-0"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Type 1 FULL 100% N/A Type 1 FULL 100 2
Long. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (°F) Time (hr) Girth. (Welded, Dbl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) No. of Courses

8. Heads: (a) Matl. SA 516 70N (b) Matl. 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	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	END	0.3125"	0.125"			2:1				Concave
(b)	END	0.3125"	0.125"			2:1				Concave

If removable bolts used (describe other fastenings) N/A
(Matl., Spec. No., Gr., Size, No.)

9. MAWP 50 N/A psi at max. temp. 300 N/A °F
(internal) (external) (internal) (external)

Min. design metal temp. -20 °F at 50 psi Hydro., pneu., or comb. test pressure 75 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
Inlet, Outlet	2	8" 150cl	RFWN	SA 333 GR6/350 LF2	0.322"	INTEGRAL	UW 16.1(c)	head
Gage conn.	3	2" 150cl	RFWN	SA 106B/234WPB/105N	0.343"	INTEGRAL	UW 16.1(c)	shell
Drain	1	3" 150cl	RFWN	SA 106B/234 WPB/105N	0.300"	INTEGRAL	UW 16.1(c)	shell
Spare	1	3" 150cl	RFWN	SA 106B/105N	0.300"	INTEGRAL	UW 16.1(c)	shell
Spare, Liquid in	2	4" 150cl	RFWN	SA 106B/105N	0.337"	INTEGRAL	UW 16.1(c)	shell
MANWAY	1	20" 150cl	RFSO	SA 333 GR6/350 LF2	0.375"	INTEGRAL	UW 16.1(c)	shell

11. Supports: Skirt No Lugs N/A Legs 2 Other N/A Attached Shell welded
(Yes or No) (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'r's. name and identifying stamp)

Extra supports may be required for vessel hydro test in a corroded condition.

85 BBL Flare knockout unit. Construction Drawing: T7-0017-VES-01 R3 and T7-0017-VES-02 R3. Volume is 480.7 cu.ft.

Impact Testing No: UG-20(f)(1-5). RT-1: Full on clrc and long seams per UW11(a) & UW-51

Pressure relief device to be installed as per UG-125

CERTIFICATE OF SHOP/FIELD COMPLIANCE

We certify that the statements 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. _____ expires January 19 2009

Date Feb 22, 2007 Co. name Petro Field Industries Inc. Signed PK Malekzad
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Petro Field Industries Inc. at 3236 50th Ave S.E. Calgary Alberta T2B 3A3
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 ABSA have inspected

the pressure vessel described in this Manufacturer's Data Report on FEB 23 2007, 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 23 2007 Signed [Signature] Commissions AB, #40
(Authorized Inspector)

(Natl' Board (incl. endorsements), State, Prov. and No.)