



TRANSTECH ENERGY

18,000-Gallon Underground Storage Vessel Rocky Mount, NC

VESSEL SPECIFICATIONS

Manufacturer	Year	Capacity	PSI	Serial Number/ National Board Number
Beaird Industries, Inc.	1989	18,000	250	133937-01-1/ 55964

The vessel listed is ASME certified and was manufactured by Beaird Industries Inc. It has a National Board number with a U-1A data sheet. This steel underground vessel is constructed of SA-612 material and is 9-feet in diameter and 32-foot in length. The concave heads are .383" thick. The shell thickness is .672".



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

SHEET I OF II

1. Manufactured and certified by Beaird Industries, Inc., 601 Benton Kelly Road, Shreveport, LA 71106
(Name and address of manufacturer)

2. Manufactured for Weldex Corp., Town Forest Road, Oxford, MA 01540
(Name and address of purchaser)

3. Location of installation Avon Old Farm School for Boys Avon, CT
(Name and address)

4. TYPE Horiz. Tank 133937-01-1 UG 108-250 PSI 55964 1989
(Name of vessel) (Mfg.'s serial No.) (CRN) (Drawing No.) (Mat'l. St. 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 87 Add. None None
Address (Date) Code Case No. Special Service per UG-120(d)

6. Shell: SA-612 .672" 0" 9' -0" 32' -6"
Mat'l. Spec. No., Grade Nom. Thk. (in.) Cor. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: Welded Dbl. Butt Full 100 None Welded Dbl. Butt Full 4
Long. Stitches, Dist., Inpt., Lap, Butt R.T. (Spot or Full) F.R. (%) H.T. Temp. (°F) Type (St) Girth Stitches, Dist., Inpt., Lap, Butt R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-612 (b) Mat'l. _____
(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)	Ends	.385"	0"					54.144"		Concave
(b)										

If removable, bolts used (describe other fastenings) _____
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 250 psi at max. temp. _____ 100 °F
 Min. design metal temp. -20 °F at 170 psi. Hydro. ~~TEST PRESSURE~~ test pressure 375 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
Manway	1	18"	150# SO	A-105 w/Std. Wt.	Pipe SA-106-B	SA-516-70	Welded	Shell
SEE FORM U-4 ATTACHED								

11. Supports: Skirt No Legs _____ Legs _____ Other (2) Saddles Attached Shell Welded
(Yes or no) (Mat'l.) (Mat'l.) (Describe) (Welds and heat)

12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: None

(Name of part, size number, Mfg.'s name and identifying stamp)
108" I.D. x 41' -6-1/8" O.A. Length 18,346 W.G. Underground Propane Storage Tank
UCS-66(a) & (b)
Materials shown as "A" are identical with "SA"

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. 11,840 expires March 12, 1991.
 Date 8/4/89 Co. name Beaird Industries, Inc. Signed [Signature]

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by Beaird Industries, Inc. at Shreveport, Louisiana

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 Louisiana and employed by Commercial Union Insurance Company have inspected the component described in this Manufacturer's Data Report on 7/21, 19 89, 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 8-9-89 Signed [Signature] Commission LA. COMM. 898 NB COMM. 7457
(Not Board's test endorsement, Spec. Form and No.)

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

1. Manufactured and certified by Beaird Industries, Inc., 601 Benton Kelly Road, Shreveport, LA 71106
(Name and address of manufacturer)

2. Manufactured for Weldex Corporation, Town Forest Road, Oxford, MA 01540
(Name and address of purchaser)

3. Location of installation Avon Old Farm School for Boys Avon, CT
(Name and address)

4. Type Horiz. Tank 133937-01-1 UG-108-250 PSI 55964 1989
(Mark, var., etc., etc.) (Mfg's. serial No.) (CRN) (Dept) (Dist. Bd. No.) (Year built)

Data Report
Item Number **Remarks**

8. HEADS: Seams welded dbl. butt-head to shell and head seams
R.T. Spot Eff. 85%

10. NOZZLES, INSPECTION AND SAFETY VALVE OPENINGS:

Manway Cover (1) 18" Blind SA-516-70 150# Spec. Bolted Manway

Openings in Cover:

Float Gauge (1) 2-1/2" Drilled Hole Studding Outlet Type

Relief (1) 3" Drilled Hole Studding Outlet Type

Liquid Inlet (1) 3" NPT Drilled and Tapped Hole

Vapor (1) 2" NPT Drilled and Tapped Hole

Liquid (1) 2" NPT Drilled and Tapped Hole

Press. Ga. (1) 0-1/4" NPT Drilled and Tapped Hole

Liq. Level (1) 0-1/4" NPT Drilled and Tapped Hole

Thermowell (1) 0-3/4" NPT Drilled and Tapped Hole
w/Sch. 80 Pipe SA-106-B and 3000# SW Cap A-105

Date 8/4/89 Co. name Beaird Industries, Inc. Signed *[Signature]*
(Date) (Name of Manufacturer) (Signature)

Date 8-9-89 Signed *[Signature]* Commission LA. COMH. 898 NB COMH. 7457
(Date) (Authorized Inspector) (Name of Inspector)