

FORM U 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

218010  
 Oct 17/84  
 DCR

1. Manufactured and certified by ABAX ENERGY SERVICES LTD. 5929 6th St. N.E. CALGARY, AB T2K 5R5  
(Name and address of manufacturer)

2. Manufactured for BUMPER DEVELOPMENT CORP. 300 - 5th Avenue S.W. CALGARY, ALBERTA  
(Name and address of purchaser)

3. Location of installation LSD 16-30-31-24 W4M  
(Name and address)

4. Type VERT. TANK 1390 F-1446.2 1390B501 ----- 10/84  
(Horiz. or vert., tank) (Mfg. 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  
Year

to WINTER 1983  
Addenda (Date)

6. Shell: SA-516-70 6.4mm 250" NIL 3035mm 1-847mm  
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Code Case Nos. Special Service pressure (psi)

7. Seams: DBL BUTT WELDED SPOT 85 ----- DBL BUTT WELDED SPOT 3  
Long. (Welded, Dbl., Spot, Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl., Spot, Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Mat'l. SA-516-70 (Spec. No., Grade) (b) Mat'l. SA-516-70 (Spec. No., Grade)

	Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Ellipticity Ratio	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	8.48mm	NIL	-----	-----	2:1	-----	-----	-----	CONCAVE
(b)	BOTTOM	333"	NIL	-----	-----	2:1	-----	-----	-----	CONCAVE

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

9. MAWP 345kPa 50 psi at max. temp. 93°C 200 °F  
 Min. temp. (when less than -20°F) \_\_\_\_\_ °F. Hydro., pneu., or comb. test pressure 518 kPa 75 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diame. or Size	Type	Mat'l.	Thk. (in.)	Reinforcement Mat'l.	How Attached	Location
CRUDE INLET	1	114.3mm	RFWN	SA-106-B	6mm	NONE	WELDED	SHELL
OIL OUTLET	1	88.9mm	RFWN	SA-106-B	5.5mm	NONE	WELDED	SHELL
WATER OUT	1	88.9mm	RFWN	SA-106-B	5.5mm	NONE	WELDED	SHELL
DRAIN	1	60.3mm	RFWN	SA-106-B	5.5mm	NONE	WELDED	BTM HEAD

11. Supports: Skirt YES Lugs 2 Legs ----- Other BASE RING Attached WELDED TO BTM HEAD  
(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: \_\_\_\_\_  
(Name of part, item number, Mfg's name and identifying stamp)

VOLUME: 70.62 m<sup>3</sup>

TREATER

**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. 14941 expires DEC. 28, 1984  
 Date Oct. 17/84 Co. name ABAX ENERGY SERVICES LTD. Signed Karl-H. Schmitz  
(Manufacturer) (Inspector) (Signature)

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**CERTIFICATE OF SHOP INSPECTION**

Vessel constructed by ABAX ENERGY SERVICES LTD. at CALGARY

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 LABOUR  
 have inspected the component described in this Manufacturer's Data Report on Oct 17, 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 Oct 17/84 Signed DCS ear Commissions \_\_\_\_\_  
(Authorized Inspector) (Nat'l. Board (incl. endorsements), State, Prov. and No.)

