

(A) 420241

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

CONSTRUCTED IN
ACCORDANCE WITH
APPENDIX 28

EXCHANGER INDUSTRIES.

1. Manufactured and certified by 5505 - 52 Street S.E. Calgary, Alberta T2A 6A8
(Name and address of Manufacturer)
2. Manufactured for Macdonald Engineering Group, #1100, 777 - 8th Avenue SW, Calgary, AB
(Name and address of Purchaser)
3. Location of installation Pan East Petroleum Corp. Berland River Project - 7-16-29-24-WSM
(Name and address)
4. Type Horizontal 96-5425 N-3364-2 96-5425-REV 4 1996
(Horiz. or vert., tank) (Mfr's serial No.) (CRN) (Drawing No.) (Nat'l Bd. No.) Yr 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 1995
(year)
- to 1995
Addenda (Date)
6. Shell: SA-240-304L as below nil as below as below
Mat'l. (Spec. No. Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft & in) Length (overall) (ft & in)
7. Seams: Corner Welds U.T. -- n/a n/a Corner Welds U.T. 2
Long. (welded, dbl. R.T. (spot Eff. H.T. Temp Time Girth (welded, dbl. R.T. (spot. No. of
sngl. lap, butt) or full) (%) (°F) (hr) sngl. lap, butt) partial or full Courses
8. Heads: (a) Mat'l. (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 Dia.	Side To Pressure (Convex Or Concave)
(a)										
(b)										

If removable, bolts used (describe other fastening)

9. MAWP 1480 (Mat'l Spec. No., Grade, size, No.)
psi at max. temp 200 °F.
Min. design metal temp. -40 °F at 1480 psi. Hydro. test pressure 2220 psi.
10. Nozzles, inspection, and safety valve openings: Impact testing exempt per UHA-51(a).

Purpose (Inlet Outlet, Drain)	No.	Diameter or Size	Type	Material	Nom Thickness	Reinforcement Material	How Attached	Location
Inlet	2	8"900#	RFWN	SA-312-304L	.719"	none	welded	Top front
Outlet	2	8"900#	RFWN	SA-312-304L	.719"	none	welded	Bottom front
Vent	1	1"6000#	TOL	SA-182-304L	.500"	none	welded	Top rear
Drain	1	1"6000#	TOL	SA-182-304L	.500"	none	welded	Bottom rear

11. Supports: Skirt Lugs Legs Other Attached
(Year of 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:
Constructed in accordance with Appendix 28. (Name of part, item no., Mfr's name & identifying stamp)
PSV on piping. 11 1/2" x 17 5/8" x 13'-1 7/8"
TUBES: 309 pcs 1"x16 BWG M/W 48'-0" SA-249-316L BOX SIZES: 7 1/2" x 16 5/8" x 13'-1 7/8"
T/S & P/S THK: 1/2" END PLT THK: 1/4" CAPACITY: 74.6 cu ft.
WRAPPER THK: 1/2" PASS/STAY PLT THK: 1" SERVICE:
* = EXCHANGER INDUSTRIES, A Division of Premetalco Inc. ITEM NO: E-170

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. 5983 Expires March 30th 19 99
Date 5 NOV 96 Name EXCHANGER INDUSTRIES
A Div of Premetalco Inc. (Manufacturer) Signed MV Baxter (Representative)

CERTIFICATE OF SHOP INSPECTION

I, the undersigned, holding a valid commission issued by the National Board and Pressure Vessel Inspectors and/or the State or Province of Alberta and employed by Alb. Boilers Safety Association of Alberta have inspected the pressure vessel described in this Manufacturer's Data Report on Nov-5 19 96, 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 make 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 96-11-05 Signed [Signature] Commissions AB 55 (K)
(Authorized Inspector) (Nat'l Board incl. endorsement, State, Province and No.)