

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

1. Manufactured and certified by HEMPHILL CORPORATION, 3515 DAWSON ROAD TULSA, OKLAHOMA 74115
(Name and address of manufacturer)

2. Manufactured for ENCANA ENERGY RESOURCES, INC. 950 17TH STREET, SUITE 2600 DENVER, COLORADO 80202
(Name and address of purchaser)

3. Location of installation UNKNOWN
(Name and address)

4. Type: HORIZ.H.EXCHANGER 8825.1 NONE 38422-8825 AC R1 1400 2003
(Horiz. or vert. tank) (Mfr's 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 2001
Year

to 2002
Addenda (Date) Code Case Nos. Special Service per UG 120(d)

6. Shell: TUBE&PLUG SA516 70N FR 7/8" BK 7/8" .0625 FR 5 1/4" BK 5 1/4" 7' 11 1/8"
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: CORNER JOINT NONE 1.00 NONE NONE NONE 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, Partial, or Full) No. of Courses

8. Heads: (a) Matl. WRAPPERS: SA-516 70N (b) Matl. ENDS: 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)	WRAPPERS	1/2"	.0625						**	FLAT
(b)	ENDS	1/2"	.0625						***	FLAT

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

9. MAWP 645 psi at max. temp. 350 °F
 Min. design metal temp. -20 °F at 645 psi. Hydro. ~~test~~ test pressure 839 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
INLET/OUTLET	2	3"	PIPE	SA-106 GR B	S/80	NONE	UW-16(a)	HEADER
VENT/INSTR.	2	1"	CPLG	SA-105	6000#	NONE	UW-16(a)	HEADER
PLUGS	376	3/4-16	UNF 3B	SA-105				HEADER

11. Supports: Skirt _____ Lugs _____ Legs _____ Other STRUCTURE Attached BOLTED
(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. Mfr's name and identifying stamp)

* 2 HEADS ONE AT EACH END. **WRAPPERS FLAT DIAMETER 3 1/2" x 95 1/8". ***ENDS FLAT DIAMETER 3 1/2" x 4 1/4".
 188 TUBES: SA-214-STL 5/8" O.D. .060" MIN. 16' LG. CONSTRUCTED IN ACCORDANCE WITH APPENDIX 28.
 IMPACTS EXEMPT PER UG 20 (f). PRESSURE RELIEF DEVICE BY OTHERS.

CERTIFICATE OF SHOP / FIELD 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. 32,172 expires 08/29/2004
 Date 9/16/03 Co. Name HEMPHILL CORPORATION (Manufacturer) Signed [Signature] (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by HEMPHILL CORPORATION at 3515 DAWSON ROAD TULSA, OK 74115
 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and the State or Province of OKLAHOMA and employed by HEARTLAND LOYDS INSURANCE COMPANY have inspected the component described in this Manufacturer's Data Report on 9/16/03, 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 9/16/03 Signed [Signature] (Authorized Inspector) Commissions NB11363AB 04697 (Nat'l Board. (incl. endorsements) State, Prov. and No.)