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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 of 1

1. Manufactured and certified by SEWON CELLONTECH CO.,LTD. #72, SHINCHON-DONG, CHANGWON, KYEONGNAM 641-370 KOREA
(Name and address of manufacturer)
2. Manufactured for COLT ENGINEERING CORPORATION / 23 Sunpark Drive S.E Calgary, Alberta CANADA T2X 3V4
(Name and address of purchaser)
3. Location of installation Hydrotreater Laydown, 140 ST at 80 AVE. Tar Island, Fort McMurray AB, CANADA
(Name and address)
4. Type: Vertical, Tank D0591-002 U7830.2 D0591-207C309-D-01<8> 462 2009
(Horiz. or vert., tank) (Mfg'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 2004
Year
to 2006 (July. 01. 2006) N/A N/A
Addenda (date) Code Case Nos. Special Service per UG-120(d)
6. Shell: SA516-70N 4.685 0.187 90 137.31
Mat'l. (Spec. No., Grade) Nom. Thk. (inch) Corr. Allow. (inch) Diam. I.D. (inch) Length (overall) (inch)
7. Seams: Type 1 Full 100 1130-1164.2 3.5 Type 1 Full 100 2
Long. (Welded, Dbl., Sngl., Lap, Butt) RT (Spot or Full) Eff. (%) H.T. Temp.(°F) Time (hr) Girth (Welded, Dbl., Sngl., Lap, Butt) RT (Spot or Full) Eff. (%) No. of Courses
8. Heads : (a) Mat'l. SA516-70N, Type 1, Full. 1130-1164.2°F 3.5hrs. (b) Mat'l. SA516-70N, Type 1, Full. 1130-1164.2°F 3.5hrs.
(Spec. No., Grade) (Spec. No., Grade)

	Location(Top, Bottom, Ends)	Minimum Thickness (inch)	Corrosion Allowance (inch)	Crown Radius	Knuckle Radius	Elliptical Ratio	Conical Apex Angle	Hemispherical Radius (inch)	Flat Diameter	Side to Pressure (Convex or Concave)
(a)	TOP	2.35	0.187	N/A	N/A	N/A	N/A	45.375	N/A	Convex / Concave
(b)	BOTTOM	2.35	0.187	N/A	N/A	N/A	N/A	45.375	N/A	Convex / Concave

If removable, bolts used (describe other fastenings)

N/A

(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP 1872 F.V Psig at max. temp. 350 125 °F
(internal) (external) (internal) (external)
Min. design metal temp. -20 °F at 1872 / F.V Psig Hydro., pneu., or comb. test pressure 2588.9 Psig.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Mat'l.	Nom. Thk. (inch)	Reinforcement Mat'l.	How Attached	Location
OUTLET	1	NPS 16"	Cl.900 flg.	SA105N	1.260	INTERGRAL	Welded	-
VENTILATION	1	NPS 4"	Cl.900 flg.	SA105N	0.673	INTERGRAL	Welded	-
MANWAY	1	ID 24"	Cl.900 flg.	SA105N	2.744	INTERGRAL	Welded	Shell
INLET	1	NPS 12"	Cl.900 flg.	SA105N	1.311	INTERGRAL	Welded	-
LEVEL GAUGE	2	NPS 2"	Cl.900 flg.	SA105N	1.000	INTERGRAL	Welded	-
LEVEL TRANSMITTER	6	NPS 2"	Cl.150 flg.	SA105N	1.063	INTERGRAL	Welded	-
OUTLET	1	NPS 4"	Cl.900 flg.	SA105N	0.673	INTERGRAL	Welded	-

11. Supports: Skirt YES Lugs N/A Legs N/A Other N/A 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: N/A
(Name of part, item number, Mfg's. name and identifying stamp)

1. Item No. : 207C309 (Job No.: D-0591)

2. Impact YES, for all parts at test temperature -20°F, except for skirt at test temperature -49°F.

3. Safety valve is provided by others

VERIFIED TRUE COPY-ORIGINAL

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. 22125 expires Aug. 25, 2011

Date Mar. 26. 2009 Co. name Sewon cellontech Co.,Ltd. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by SEWON CELLONTECH Co.,Ltd. #72, SHINCHON-DONG, CHANGWON, KYEONGNAM 641-370 KOREA

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 OHIO and employed by HSB CT have inspected the component described in this Manufacturer's Data Report on Apr. 2. 2009, 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 Apr. 2. 2009 Signed [Signature] Commissions 13449. "A"
(Authorized Inspector) (Nat'l Board (incl. endorsements), State, Prov. and No.)