

A465949

- Manufactured and Certified by: COMPLETE PACKAGE TECHNOLOGY (2000) LTD., 2887 PARSONS ROAD, EDMONTON, ALBERTA T6N 1A3
 (Name and Address of Manufacturer)
- Manufactured for: CANADIAN NATURAL RESOURCES LTD. #2500, 855 - 2nd Street, S.W., Calgary, AB T2P 4J8
 (Name and Address of Purchaser)
- Location of installation: Portable

1. Type: VERTICAL (Horizontal or Vertical Tank) C01-6525-1 P-547 21 (CRN) (Drawing No.) (Nat'l Bd No.) 2002 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

to 2000 Addenda (date) Code Case No s 0.125" 26" Special Service per UG-120(d) 12'-0" S/S

6. Shell: SA-516-70N + CVT Mat'l (Spec. No., Grade) 2" Nom Thk. (in) 1'25 Cor Allow (in) 26" Diam I D (ft & in) Type 1 Full Length (overall) (ft & in) 12'-0" S/S

7. Seams: Full R T (Spot or Full) H T Temp (F) Time (hr) Girth (Welded, Dbl., Sngl., Laps, or Full) R. T. (Spot, Partial or Full) Courses

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

Location (Top, Bottom, Ends)	Minimum Thickness	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Radius	Conical Apex Angle	Hemispherical Radius	Flat Diameter	Side to Pressure (Convex or Concave)
(a) Top	1.900"	0.125"			21 SE				Concave
(b) Bottom	1.900"	0.125"			21 SE				Concave

If removable, bolts used (describe other fastenings)

- MAWP: 2000 psi at max. temp. 220 °F
- Min. design metal temp. -20 °F at 2000 psi. Hydro., pneu., or comb. test pressure 3000 psi.
- Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No	Diam. Or Size	Type	Mat'l	Norm. Thk	Reinforcement Mat'l	How Attached	Location
						SEE ATTACHED U-4 FORM		

- Supports: Skirts Yes Lugs Yes Legs Yes No Other N/A Attached: Bim Head - Welded (Where and How)
- Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned inspectors have been furnished for the following items of the report.

VOLUME: 25 40 CU FT See attached U-4 Compact Vertical Cyclone Separator As Built Drawing CPT01-6525-200-A Rev 3
 Production Impact Tests done per UG-84, shell, heads & repads impact tested to -50°F. All other material is impact test exempt per UG-20(f) and UCS-88 (a) & (b)
 PSV located on N13, Pressure relief valve in accordance with PARA. UG 125 of ASME Sec. VIII, Div. 1

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. 32,148 expires 17-Oct -03
 Date 03.14.02 Ps. Co. name COMPLETE PACKAGE TECHNOLOGY (2000) LTD. Signed (Representative)

CERTIFICATE OF SHOP INSPECTION
 I, the undersigned, hold 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 COMPLETE PACKAGE TECHNOLOGY (2000) LTD. at Edmonton, Alberta
 I have inspected the component described in this Manufacturer's Data Report on March 14, 2002, 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 loss of any kind arising from or connected with this inspection.
 Date March 14, 2002 Signed Howard Lake (Authorized Inspector) Commissions AB #87 BERTA (Nat'l Board Incl. Endorsement, State, Prov. And No.)

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

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1 Manufactured and certified by COMPLETE PACKAGE TECHNOLOGY (2000) LTD., 2387 Parsons Road, Edmonton, Alberta T6N 1A3
(Name and address of Manufacturer)

2 Manufactured for CANADIAN NATURAL RESOURCES LTD., 2500, 855 - 2nd Street S.W., Calgary, AB T2P 4J8
(Name and address of Purchaser)

3 Location of installation: Portable (Name and address)

4 Type VERTICAL (Horizontal or sphere) CYCLONE SEPARATOR (Tank separator, heat exchanger)
C01-6525-1 (Mig's Serial No.)

P5547.21 (CRN) CPT01-6389-200-A Rev. 1 (Drawing No.) 2002 (Year Built)

Date Report
Item Number

Remarks

NOZZLES AND OPENINGS

Purpose	No.	Dia	Type	Material	Nom Thk	Re Mat	How Att	Location
INLET	N1	8"	900# RTJWN	SA-105N / SA-106-B	0.906"	SA-516-70N + CVT	UW16-1c	SHELL
GAS OUTLET	N2	10"	900# RTJWN	SA-105N / SA-106-B	1.125"	-----	UW16-1c	HEAD
CONDENSATE OUTLET	N3	2"	900# RTJLWN	SA-105N	1.06"	-----	UW16-1c	SHELL
WATER OUTLET	N4	2"	900# RTJLWN	SA-105N	0.436"	-----	UW16-1c	SHELL
CONDENSATE LEVEL GAUGE	N5A/B	1 1/2"	900# RTJLWN	SA-105N	0.63"	-----	UW16-1c	SHELL
WATER LEVEL GAUGE	N6A/B	2 1/2"	900# RTJLWN	SA-105N	0.63"	-----	UW16-1c	SHELL
CONDENSATE LEVEL CONTROL	N7	3"	900# RTJLWN	SA-105N	1.00"	-----	UW16-1c	SHELL
WATER LEVEL CONTROL	N8	3"	900# RTJLWN	SA-105N	1.00"	-----	UW16-1c	SHELL
PI	N9	1 1/2"	900# RTJLWN	SA-105N	0.63"	-----	UW16-1c	SHELL
TI	N10	1 1/2"	900# RTJLWN	SA-105N	0.63"	-----	UW16-1c	SHELL
RECYCLE / INSPECTION	N11A	3"	900# RTJWN	SA-105N / SA-106-B	0.438"	SA-516-70	UW16-1c	SHELL
RECYCLE / INSPECTION	N11B	3"	900# RTJWN	SA-105N / SA-106-B	0.438"	SA-516-70	UW16-1c	SHELL
LSHH	N12	3"	900# RTJLWN	SA-105N	1.00"	-----	UW16-1c	SHELL
DRAIN	N14	2"	900# RTJWN	SA-105N / SA-106-B	0.436"	-----	UW16-1c	HEAD
INSPECTION	N15	4"	900# RTJLWN	SA-105N	1.125"	-----	UW16-1c	SHELL

Certificate of Authorization: Type U No. 32,148 Expires: 17 October 03

Date 03.14.02 Name COMPLETE PACKAGE TECHNOLOGY (2000) LTD (Manufacturer)

Date March 14, 2002 Name Arnold Lake (Authorized Inspector)

Signed Richard Schultz (Representative)

Commission AB #87 (Not Board Incl. Endorsements) State Province and No.