

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. Manufactured and certified by Alco Gas & Oil Production Equipment Ltd. 5203-75 th STREET EDMONTON ALBERTA
 (Name and address of manufacturer)
 2. Manufactured for CANADIAN NATURAL RESOURCES 855-2 nd STREET SW CALGARY, ALBERTA
 (Name and address of purchaser)

3. Location of installation Stock

4. Type: Vertical 2004-7204-01B P-5021 213 A-25584 R5 N/A 2004
 (Name and address) (Mfg's serial No.) (CRN) (Drawing 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

to A-2003 N/A Year
 Addenda (Date) Code Case Nos
 6. Shell: SA-516Gr.70N 1" 1/8" 23" Special Service per UG-120(d)
 Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams: TYPE 1 Full 1150 1 TYPE 1 3
 Long. (Welded, Dbl. Singl., Lap, Butt) R.T. (Spot or Full) H.T. Temp. (F) Time (hr) Girth (Welded, Dbl. Singl., Lap, Butt) No. of Courses or Fulls

8. Heads: (a) Matl. SA-516Gr.70N (b) Matl. SA-516Gr.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) Top	938"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b) Bottom	938"	1/8"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

If removable, bolts used (describe other fastenings) N/A
 (Matl., Spec. No., Gr., Size, No.)
 9. MAWP: 1440 psi at max. temp. 130 Hydrostatic 1872 psi

10. Nozzles, inspection and safety valve openings:
 20 in. design metal te. np. -20 of at 1440 psi Hydro, pneu., or comb. test pressure

Purpose (Inlet Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Thk.	Norm. Thk.	Reinforcement Matl.	Flow Attached	Location
GAS INLET	1	4"	CL600WN	SA-106B-105N	.674"	.674"	SA-516Gr.70N	UW 16.1 (c)	SHELL
GAS OUTLET/NSP	1	4"	CL600WN	SA-106B-105N	.674"	.674"	SA-516Gr.70N	UW 16.1 (c)	TOP HEAD
DRAIN	1	2"	CL600WN	SA-106B/234WTR	.344"	.344"	N/A	UW 16.1 (c)	BOTT HEAD
HTG COIL	2	1 1/2"	CL600WN	SA-105N	.400"	.400"	N/A	UW 16.1 (c)	SHELL
RADIOGRAPH	2	2"	CL600WN	SA-106B-105N	.344"	.344"	N/A	UW 16.1 (c)	SHELL
INSPECTION									
GLYCOL INLET	1	1 1/2"	CL600WN	SA-106B-105N	.400"	.400"	N/A	UW 16.1 (c)	SHELL

11. Supports: Skirt Yes No Lugs Yes No Legs Yes No Other Yes No
 (Yes or no) (No.) (No.) (Describe)
 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)

IMPACT TEST EXEMPT PER UG 20 (f), UCS 66 (c) /SEE ATTACHED U4 DATA REPORT
 GLYCOL CONTACTOR /CAPACITY 2.27 M3 /AS BUILT DRAWING D-2004-7204-01-001/001 R0

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. 14259 expires 06/17/11, 2004
 Date APR 30 2004 Co. name Alco Gas & Oil Production Equipment Ltd. Signed [Signature]
 (Manufacturer) (Representative)
CERTIFICATE OF SHOP/FIELD INSPECTION
 Vessel constructed by Alco Gas & Oil Production Equipment Ltd. at 5203-75 th STREET EDMONTON ALBERTA
 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 ALBERTA BOILERS SAFETY ASSOCIATION have inspected the component described in this Manufacturer's Data Report on APRIL 30th, 2004, 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 04/30, 2004. Signed [Signature] Commissions ALBERTA AB 95 A
 (Authorized Inspector) (Matl. Board incl. endorsements State, Prov. and No.)

