

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

AS17050

1. Manufactured and certified by Alco Gas & Oil Production Equipment LTD 5203-75th STREET EDMONTON ALBERTA

(Name and address of manufacturer)

2. Manufactured for CANADIAN NATURAL RESOURCES LTD 855-2nd STREET SW CALGARY, ALBERTA

(Name and address of purchaser)

3. Location of installation Stock

(Name and address)

4. Type: Vertical 2004-7340-01 P-5021213 A-25884 R5 N/A 2004
 (Horiz. or vert. tank) (Mfr's serial No.) (CRN) (Drawing No.) (Mfr's Id. 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 Special Service per UG-120(d) 30 0" SM/SM Length (overall) (ft. & in.)

6. Shell: SA-516Gr.70MT Addenda (Date) 1" Code Case Nos. 1/8" 22" Diam. I.D. (ft. & in.)

7. Seams: TYPE I Full 100% Eff. (%) 1150 H.T. Temp. (F) 11/2 Time (hr) TYPE I R.T. (Spot or Full) Full Singl. Lap. Butt

8. Heads: (a) Matl. SA-516Gr.70MT (b) Matl. SA-516Gr.70MT (Spec. No., Grade)

(a) Location (Top, Bottom) Minimum Thickness 938" Corrosion Allowance 1/8" Crown Radius N/A Knuckle Radius N/A Elliptical Ratio 2:1 Conical Apex Angle N/A Hemispherical Radius N/A Flat Diameter N/A Side to Pressure (Convex or Concave) CONCAVE

(b) Location (Top, Bottom) Minimum Thickness 938" Corrosion Allowance 1/8" Crown Radius N/A Knuckle Radius N/A Elliptical Ratio 2:1 Conical Apex Angle N/A Hemispherical Radius N/A Flat Diameter N/A Side to Pressure (Convex or Concave) CONCAVE

If removable, bolts used (describe other fastenings) N/A

9. MAWP: 1440 (Mfr's. Spec. No., Gr., Size, No.) 130 psi at max. temp. 1872 psi

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

Purpose (Inlet Outlet, Drain) No. Diam. or Size Type Matl. Norm. Thk. R_h reinforcement Matl. How Attached Location

GAS INLET 1 4" CL600FLG. SA-106B/105N 674" SA-516Gr.70MT 17W16.1(c) SHELL

GAS OUTLET/ INSPECTION 1 4" CL600FLG. SA-106B/105N 674" SA-516Gr.70MT 17W16.1(c) TOP HEAD

LEVE/ CONTROL/ INSPECTION 1 3" CL600LWN SA-105N 13/16" N/A 17W16.1(c) SHELL

DRAIN 1 2" CL600FLG. SA-106B/234WPH 344" N/A 17W16.1(c) Bottom Head

11. Supports: Skirt Yes Lugs NO Legs NO Other (No.) Attached welded to bottom head (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: IMPACT TEST EXEMPT UG 20(f) UCS 66 (c)

GLYCOL CONTACTOR /CAPACITY 2.31 M3 (Name of part, item number, Mfr's. name and identifying stamp)

SEE ATTACHED U4 DATA REPORT

AS BUILT DRAWING D-2004-7340-01-001/001 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 OCT.7 th 2007

Date JAN.18.2005 Co. name Alco Gas & Oil Production Equipment LTD. Signed Smith, Wayne (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Alco Gas & Oil Production Equipment LTD. at 5203-75th 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 Jan 18, 2005, 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 JAN 18 2005 Signed Wayne Smith (Authorized Inspector) Commissions ALBERTA AB 95 A

(Not a Board incl. endorsements State Prov. and No.)

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Remarks

2007

ALBERTA BOAT

(Next Board incl. employees, since. Please see sec. 1.)