

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

Form U1-A

Manufactured and certified by **Nusco Manufacturing & Supply Ltd.** 1604 - 8th Street, Nisku, Alberta, Canada T9E 7S6
(Name and address of Manufacturer)

Manufactured for **BP Canada Energy Company** 240 - 4th Avenue S.W. P.O. Box 200, Calgary, Alberta T2P 2H8
(Name and address of Purchaser)

Location of Installation **Stock**
(Name and address)

4. Type **Horiz. Slug Catcher** **004502 - 50** **L-3956.2** **D0899 - 200 Rev. 1** **2001**
(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 1998
to 2000 N/A N/A (Year)

6. Shell: **SA-516-70N** **2.00"** **0.0625"** **4" x D.** **20' - 0"**
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. ID (ft. & in.) Length (overall) (ft. & in.)

7. Seams: **Type - 1** **RT - 1 Full** **100%** **1150** **2.0** **Type - 1** **RT - 1 Full** **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, Partial or Full) No. of Courses

8. Heads: (a) Mat'l. **SA-516-70N** (b) Mat'l. **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) End	1.9375"	0.0625"	-	-	2:1	-	-	-	Concave
(b) End	1.9375"	0.0625"	-	-	2:1	-	-	-	Concave

If removable, L-bolts used (describe other fastenings) **N/A**
(Mat'l., Spec. No., Gr., Size, No.)

9. MAWP **1440** psi at max. temp. **100** °F
Min. design metal temp. **0** °F at **1440** psi. Hydro., Pneu., or Comb. test pressure **2160** psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam or Size	Type	Material	Nom. Thickness	Reinforcement Material	How Attached	Location
SEE U4 FORM								

11. Supports: Skirt **-** Lugs **2** Legs **-** Other **-** Saddles **-** Attached **-** Welded to Shell **-**
(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)

Vessel is impact test exempt per UG 20 (f) & UCS - 66(a) Radiography in accordance with UW-11(a)
Capacity: 228 Cu. Ft. Hydrotested: Horizontally
Customers responsibility to install adequate pressure relief valve Construction Draw.: D1186-200 Rev. 0

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. **24,776**
expires March: **27, 2002**, 19

Date: **APR 10 2001** Co. Name: **Nusco Manufacturing & Supply Ltd.**
(Manufacturer)

Signed: **[Signature]**
(Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by **Nusco Manufacturing & Supply Ltd.** 1604-8th St. T9E 7S6 at Nisku, Alta. Canada 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 **R 10 2001** 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 10 2001** Signed **[Signature]**
(Authorized Inspector)

Commissions **AR #132**
Nat'l. Board (Incl. endorsements, State, Prov. and No.)

A48689

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

Form U-4

1. Manufactured and certified by **Nusco Manufacturing & Supply Ltd. 1604 - 8th Street, Nisku, Alberta, Canada T9E 7S6**
(Name and address of Manufacturer)
2. Manufactured for **BP Canada Energy Company 240 - 4th Avenue S.W. P.O. Box 200, Calgary, Alberta T2P 2H8**
(Name and address of Purchaser)
3. Location of installation **Stock**
(Name and address)
4. Type **Horizontal** **Slug Catcher** **004502-50**
(Horiz., vert. or sphere) (Tank, separator, heat exch., etc.) (Mfg's. serial No.)

L-3956.2
(CRN)

D0899 - 200 Rev. 1
(Drawing No.)

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(Nat'l. Bd. No.)

2001
(Year built)

Data Report
Item Number
10

Remarks

NOZZLES, INSPECTION AND SAFETY VALVE OPENINGS:

Purpose (Inlet, Outlet, Drain)	No.	Diameter	Type	Material	Nom. Thickness	Reinforcement Material	How Attached	Location
N1 Inlet	1	6"	600#RFWN	SA-106-B	XXH	SA-516-70N	UW-16.1 (a)	Shell
N2 Gas Outlet	1	6"	600#RFWN	SA-106-B	XXH	SA-516-70N	UW-16.1 (a)	Shell
N3 Liquid Outlet	1	3"	600#RFWN	SA-106-B	XXH	SA-516-70N	UW-16.1 (a)	Shell
N4 PSV	1	4"	600#RFWN	SA-106-B	XXH	SA-516-70N	UW-16.1 (a)	Shell
N5 LSH	1	3"	600#RFWN	SA-106-B	XXH	SA-516-70N	UW-16.1 (a)	Shell
C1 A/B LC	2	1 1/2"	TOL	SA-105	3000#	N/A	UW-16.1 (a)	Shell
C2 PI	1	1/2"	TOL	SA-105	3000#	N/A	UW-16.1 (a)	Shell
C3 TI	1	3/4"	TOL	SA-105	3000#	N/A	UW-16.1 (a)	Shell
C4 A/B LG	2	1"	TOL	SA-105	3000#	N/A	UW-16.1 (a)	Shell
C5 Equalization	1	1"	TOL	SA-105	3000#	N/A	UW-16.1 (a)	Shell
M1 Manway	1	20"	600#RFWN	SA-516-70N	1.750"	SA-516-70N	UW-16.1 (c)	Head

Construction Drawing # D1186-200 Rev. 0

Certificate of Authorization: Type

U

No. 24,776

Expires March 27, 2002, 19

Date APR 10 2001 Name

Nusco Manufacturing & Supply Ltd.
(Manufacturer)

Signed *[Signature]*
(Representative)

Date APR 10 2001 Name

[Signature]
(Authorized Inspector)

Commission

AB#132

(Nat'l. Board incl. endorsement, State, Province and No.)