

A 527838

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 IPS Manufacturing Limited, LSD: 1-16-40-16-W4M, Alberta Canada (Box 24, Halkirk, AB T0C 1M0)
(Name and address of Manufacturer)

2. Manufactured for Husky Energy Inc. 707 - 8th Ave. S.W. Calgary AB. T2P 3G7
(Name and address of purchaser)

3. Location of installation LSD: 09-17-31-28-W4M
(Name and address)

4. Type Horizontal Sep. V-3196-001 T0343.2 IPS-48H-720-B-125 Rev.0 N/A 2005
(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 specification of the ASME BOILER AND PRESSURE VESSEL CODE. The design, construction, and workmanship conforms to ASME Rules, Section VIII, Division 1
2001
Year

to 2003 N/A N/A
Addenda (Date) Code Case Nos. Special Service per UG-120(d)

6. Shell: SA-516-70N 1.125" 0.125" 48" ID 16' 0" S/S
Mat'l. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)

7. Seams Type 1 Full 100% 1150°F 85 Min. Type 1 Full 2
Long. (Welded, Dbl., Sn, Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr) Girth (Welded, Dbl Singl., Lap, Butt) Partial or Full) No. of Courses

8. Heads: (a) Material SA-516-70N (b) Material SA-516-70N
(Spec. No., Grade) (Spec. No., Grade)

Table with 11 columns: 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). Rows (a) and (b) show END(MNWW) and END with values like 1.0625" and 0.125".

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

9. MAWP 720 psi at max. temp 100°F
Min. design metal temp. -20°F F at 720 psi (Hydro) pneu., or comb. test pressure 1080 psi.

10. Nozzels, inspection and safety valve opening:

Table with 9 columns: Purpose (Inlet, Outlet, Drain), No., Diam. or Size, Type, Material, Nominal Thickness, Reinforcement Materials, How Attached, Location. Rows include (N1) SPARE, (N2) INLET, (N3) GAS OUTLET, (N4) PI.

11. Supports: Skirt NO Lugs TWO Legs TWO Other N/A 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)

Capacity: 223 Cu. Ft. Continued on U-4 Supplementary Sheet
Construction drawing # V-3196-001 Rev.2

**Charpy Impact testing is not required as per UCS-66 & FIG 66.1 UCS-66(b)(1)(b), UCS-66(b)(2), & UG-201(1-5), UCS-66(b)(3), UCS-68(c)

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. 31,246 expires August 20, 2005.
Date January 26, 2005 Co.name IPS Manufacturing Limited, LSD: 1-16-40-16-W4M Signed [Signature] (Manufacturer) (Representative)

CERTIFICATE OF SHOP INSPECTION

Vessel constructed by IPS Manufacturing Limited, LSD: 1-16-40-16-W4M at Halkirk, Alberta, 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 January 26, 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 January 26, 2005 Signed [Signature] Commissions AB# 130AB
Authorized Inspector National Board (incl. Endorsements) State, Prov. and No.)

FORM U-4 MANUFACTURER'S DATA REPORT SUPPLEMENTARY SHEET ④527638
As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

1. Manufactured and certified by IPS Manufacturing Limited, LSD: 1-16-40-16-W4M, Alberta Canada (Box 24, Halkirk, AB T0C 1M0)
(Name and address of Manufacturer)

2. Manufactured for Husky Energy Inc. 707 - 8th Ave. S.W. Calgary AB. T2P 3G7
(Name and address of Purchaser)


3. Location of installation LSD: 09-17-31-28-W4M
(Name and address)

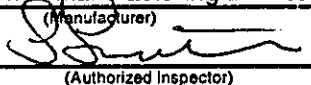
4. Type: Horizontal Separator V-3196-001
(horizontal, vertical or sphere) (Tank, separator, heat exch., etc.) (Mfg's serial No.)

T0343.2 IPS-48H-720-B-125 Rev.0 N/A 2005
(CRN) (Drawing No.) (Nat'l. Bd. No.) (Year Built)

Data Report		Remarks		
Item Number				
(N5) TI	1	2" 300# RFWN SA-105N Flange/2" Sch 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N6) LSHH	1	3" 300# RFLWN SA-105N FVC Flange(0.81")Wall	Fig.UW-16.1 (c)	Shell
(N7) PSV	1	3" 300# RFLWN SA-105N FVC Flange(0.81")Wall	Fig.UW-16.1 (c)	Shell
(N8) H2O OUT	1	2" 300# RFWN SA-105N/Flange/2" SCH 160 (0.344") SA 106B Pipe	Fig.UW-16.1 (c)	Boot Head
(N9) HC OUT	1	2" 300# RFWN SA-105N Flange/2" Sch. 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N10) LSL	1	3" 300# RFLWN SA-105N FVC Flange(0.81")Wall	Fig.UW-16.1 (c)	Shell
(N11) H DRAIN	1	2" 300# RFWN SA-105N Flange/2" Sch. 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N12a) H2O LG	1	2" 300# RFWN SA-105N Flange/2" Sch. 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N12b) H2O LC	1	2" 300# RFWN SA-105N Flange/2" Sch. 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N13) H2O LG	1	3" 300# RFLWN SA-105N FVC Flange(0.81")Wall	Fig.UW-16.1 (c)	Shell
(N14a/b) HC LG	1	2" 300# RFWN SA-105N Flange/2" Sch. 160 (0.344") SA-106B Pipe	Fig.UW-16.1 (c)	Shell
(N15) HC LC	1	3" 300# RFLWN SA-105N FVC Flange(0.81")Wall	Fig.UW-16.1 (c)	Shell
(M1) Manway/Insp.	1	18" 300# RFHB SA-105N FVC Flange(2.375")Wall	Fig.UW-16.1 (c)	Head
(B1) Boot	1	16" Sch.100 SA106B Pipe (0.902")Wall	Fig.UW-16.1 (c)	Shell
Boot Reinforcement Material SA 516-70N. 24" OD x 1" Thk.				

Certificate of Authorization: Type U No. 31,246 Expires August 20, 2005

Date January 26, 2005 Name IPS Manufacturing Limited. Signed 
(Manufacturer) (Representative)

Date January 26, 2005 Name  Commission AB# 130AB
(Authorized Inspector) (Nat'l board incl. endorsement, State, Province and No.)