

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

(A) 488071

1. Manufactured and certified by NUSCO SUPPLY & MANUFACTURING INC. 1604 - 8TH STREET NISKU, ALBERTA CANADA T9E 7S6
 (Name and address of manufacturer)

2. Manufactured for Husky Oil Operations Ltd. 707-8th Avenue SW Calgary, Alberta T2P 1H5
 (Name and address of purchaser)

3. Location of installation Husky Oil Operations Ltd. 03-21-49-19 W5M
 (Name and address)

4. Type: Vertical Separator 005739-200 K-9276.23 D1227-200 Rev.0 2002
 (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

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6. Shell: SA-106-B 1.031" 0.0625" 16" OD 6' - 6"
 (Matl. (Spec No., Grade)) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Diam. I.D. (ft. & in.)) (Length (overall) (ft. & in.))

7. Seams: Type-S Seamless 100% Type-1 * Spot 1
 Long. (Welded, Obl., Sngl., Lap, Butt) R.T. (Spot or Full) Eff. (%) H.T. Temp (F) Time (hr) Girth (Welded, Obl., Sngl., Lap, Butt) R.T. (Spot, Partial, or Full) No. of Courses

8. Heads: (a) Matl. SA-516-70N (b) Matl. 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)	TOP	0.813"	0.0625"	-	-	2:1	-	-	-	Concave
(b)	BOTTOM	0.813"	0.0625"	-	-	2:1	-	-	-	Concave

If removable, bolts used (describe other fastenings) _____

9. MAWP 1440 psi at max. temp. 100° °F
 Min. design metal temp. -20 °F at 1440 psi. Hydro. pressure test pressure 2160 psi.

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
N1 Inlet	1	3"	600# RFWN	SA-105N / SA-106-B	XXH	N/A	UW-15.1(c)	Shell
N2 Gas Outlet	1	3"	600# RFWN	SA-105N / SA-106-B	XXH	N/A	UW-16.1(c)	Top Head
C1 Outlet (HCL)	1	1"	TOL	SA-105N	3000#	N/A	UW-16.1(a)	Shell
C2 Water Outlet	1	1"	TOL	SA-105N	3000#	N/A	UW-16.1(a)	Shell
C3 Drain	1	2"	3000# CPLG	SA-106 B	SCH 160	N/A	UW-16.1(c)	Btm Head
C4 LC (HCL)	1	2"	TOL	SA-105N	3000#	N/A	UW-16.1(a)	Shell
C5 LC (Water)	1	2"	TOL	SA-105N	3000#	N/A	UW-16.1(a)	Shell
SEE U4 FORM	-	-	-	-	-	-	-	-

11. Supports: Skirt Yes Lugs - Legs - Other - Attached Welded to Bottom Head
 (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: _____

(Name of part, item number, Mfg's name and identifying stamp)

-Construction Drawing No. D1317-200 Rev.0 -Vessel is Impact Test Exempt per UG-20(f) & UCS-66(a)
 -Radiography - as per UW-11(a)5(b) -Hydrotested Vertically
 -Customers responsibility to install adequate pressure relief valve. -Capacity 7.5 Cu. Ft.

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. 24,776 expires March 27, 2005

Date JUL 29 2002 Co. Name NUSCO SUPPLY & MANUFACTURING INC Signed [Signature]
 (Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by NUSCO SUPPLY & MANUFACTURING INC. at 1604 - 8TH STREET NISKU, ALBERTA CANADA T9E 7S6

I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and 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 JUL 29 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 a loss of any kind arising from or connected with this inspection.

Date JUL 29 2002 Signed [Signature] Commissions AB #132
 (Authorized Inspector) (Nat'l Board (incl. endorsements) 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

1. Manufactured and certified by NUSCO SUPPLY & MANUFACTURING INC. 1604 - 8TH STREET NISKU, ALBERTA CANADA T9E 7S6
(name and address of manufacturer)

2. Manufactured for Husky Oil Operations Ltd. 707-8th Avenue SW Calgary, Alberta T2P 1H5
(name and address of purchaser)

3. Location of installation Husky Oil Operations Ltd. 03-21-49-19 W5M
(name and address)

4. Type: Vertical Separator 005739-200
(horiz., vert., or sphere) (tank, separator, heat exh., etc.) (mfg's serial no.)
K-9276.23 D1227-200 Rev.0
(CRN) (drawing no.) (Nat'l. Bd. no.) (year built)

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Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain, etc.)	No.	Diameter or Size	Flange Type	Material		Nozzle Thickness		Reinforcement Material	How Attached		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
C6 A/B LG (HCL)	2	3/4"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C7 A/B LG (Water)	2	3/4"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C8 PI	1	1/2"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C9 TI	1	3/4"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C10 PSHL	1	1"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C11 HLSD	1	2"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C12 PSV	1	1"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C13 A Inspection	1	2"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Shell
C13 B Inspection	1	1 1/2"	TOL	SA-105N	-	3000#	0.0625"	-	UW-16.1a	-	Top Head
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

Data Report
Item Number

Remarks

Construction Drawing No: D1317-200 Rev.0

Certificate of Authorization: Type U No. 24,776 Expires March 27 2005
Date JUL 29 2002 Name NUSCO SUPPLY & MANUFACTURING INC. Signed [Signature]
(manufacturer) (representative)
Date JUL 29 2002 Name [Signature] Commission AB #132
(Authorized Inspector) (Nat'l. Board incl. endorsement, state, province and no.)