

FORM U-1A MANUFACTURERS 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

1. Manufactured and certified by Prolink Fabrication Ltd. 5550-55th Street S.E. Calgary, Alberta, Canada T2C 3G9
(Name and Address of Manufacturer)
2. Manufactured for Weatherford 10920, North Sam Houston, Pkwy West, Suite 100, Houston, Texas, USA, 77064
(Name and address of purchaser)
3. Location of installation Minot, North Dakota, USA
(Name and address)
4. Type Horizontal 13-031-HS V8872.213 13-029-A Rev.2 91 2012
(Horiz. or vert., tank) (Mfr'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 2010
to 2011 N/A N/A
Year

6. Shell SA-516-70N 0.625" 0.125" 6' 15' s/s
Addenda (Date) Code case Nos. Special Service per UG-120(d)
7. Seams: TYPE 1 FULL 100% 1150 60min TYPE 1 FULL 100% 2
Matl. (Spec. No., Grade) Nom. Thk. (in.) Corr. Allow. (in.) Diam. I.D. (ft. & in.) Length (overall) (ft. & in.)
Long (Welded, Dbl., Singl., Lap, Butt) R. T. (Spot or Full) Eff. (%) H.T. Temp. (° F) Time (hr) Girth (Welded, Dbl., Singl., Lap, Butt) R.T. (Spot or Full) Eff. (%) 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)	END HEAD	0.6875"	0.125"	-	-	2:1	-	-	-	CONCAVE
(b)	END HEAD	0.6875"	0.125"	-	-	2:1	-	-	-	CONCAVE

If removable, bolts used (describe other fastenings) NA

9. MAWP 260 N/A psi at max. temp. 200°F
Internal External
Min. design metal temp -50 °F at 260 psi. Hydro., pneu., or comb. test pressure Hydro 390 psi.
Internal External

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Matl.	Nom. Thk.	Reinforcement Matl.	How Attached	Location
				SEE ATTACHED	FORM	U-4		

11. Supports: Skirt No Lugs No Legs No Other Saddles Attached SHELL WELDED
(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, Mfr's. name and identifying stamp)

Desc: Horizontal Inlet Separator (V-100), Volume: 490.09 CU.F (13.88 CU.M). Shell, Heads, and production welds are exempt from impact per UCS-66(a)(g) & UCS-67(a)(2) & UCS-67(d)(2), components exempt per UG-84. Fabrication Drawing # 13-031-A Rev. 2. Sour Service. N8a/b, N9a/b, N15 - 5 - Bld Flg 2" CL150 RF c/w 3/4" NPT D/T SA-350-LF2 CL.1 and 20 - Stud 5/8" x 3 1/4" LG c/w 2 Hex Nuts SA-320-L7M, SA-194-7M NC. N14 - 1 Bld Flg 2" CL150 RF c/w 1/2" NPT D/T SA-350-LF2 CL.1 and 4 Studs 5/8" x 3 1/4" LG c/w 2 Hex Nuts SA-320-L7M, SA-194-7M NC. N16 - 1 Bld Flg 2" CL150 RF SA-350-LF2 CL.1, N17a/b - 2 Bld Flg 2" CL150 RF c/w 3/4" NPT D/T SA-350-LF2 CL.1. N16, N17a/b - 12 Stud 5/8" x 3 1/4" LG c/w 2 Hex Nuts SA-320-L7M, SA-194-7M NC. M1 - 1 Bld Flg 24" CL150 RF SA-350-LF2 CL.1 and 20 Studs 1 1/4" x 7" LG c/w 2 Hex Nuts, SA-320-L7M, SA-194-7M NC. N10/11 - 16 Studs 5/8" x 3 1/4" LG c/w 2 Hex Nuts SA-320-L7M, SA-194-7M NC.

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 BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. "U" Certificate of Authorization No. 32685 expires JULY 11 2013

Date Jun. 15/13 Co. name Prolink Fabrication Ltd. Signed [Signature]
(Manufacturer) (Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by Prolink Fabrication Ltd. At 5550-55th Street S.E. Calgary AB, Canada T2C 3G9
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 ABSA

have inspected the component described in this Manufacturer's Data Report on JAN 15 2013, and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. By signing this certificate neither the Inspector nor his/her employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturer's Data Report. Furthermore, neither the Inspector nor his/her 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 15 2013 Signed [Signature] Commissions AB 249 NB 12900 A
(Authorized Inspector) (Nat'l Board (incl. endorsements), Sale, Prov. and No.)

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

1. Manufactured and certified by Prolink Fabrication Ltd. 5550-55 Street S.E. Calgary, AB, Canada T2C 3G9
(Name and address of Manufacturer)
2. Manufactured for Weatherford 10920, North Sam Houston, Pkwy West, Suite 100, Houston, Texas, USA, 77064
(Name and address of Purchaser)
3. Location of installation Minot, North Dakota, USA
(Name and address)
4. Type: Horizontal Separator 13-031-HS
(Horizontal, vertical, or sphere) (Tank, separator, heat ex., etc.) (Mfg's. serial No.)

V8872.213
(CRN)

13-029-A Rev. 2
(Drawing No.)

91
(Nat'l Bd. No.)

2012
(Year Built)

Data Report
Item Number 10
Continued from Form U1a

Remarks

Purpose (Inlet, Outlet, Drain etc.)	No.	Diameter or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Crude Inlet	1	6"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.25"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Crude Outlet	1	6"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.25"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Drain	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Drain	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Drain	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Water Out	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
Oil Outlet	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
LG-100 Water	1	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	SHELL
LG-100 Water	1	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	SHELL
LG-200 Oil	1	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	END HEAD
LG-200 Oil	1	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.436"	0.125"	INHERENT	UW-16.1(c)	Type 1	END HEAD
LLC-100 Water	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
LLC-200 Oil	1	4"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.31"	0.125"	INHERENT	UW-16.1(c)	N/A	END HEAD
PSV/PSV	2	3"CL150	RFHB	N/A	SA-350-LF2 CL.1	1.02"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL
PI/TI	2	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	END HEAD
Spare	1	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	SHELL
LG-300	2	2"CL150	RFWN	SA-333-6	SA-350-LF2 CL.1	0.343"	0.125"	INHERENT	UW-16.1(c)	Type 1	SHELL
Manway	1	24"CL150	RF'V2'	N/A	SA-350-LF2 CL.1	2.63"	0.125"	INHERENT	UW-16.1(c)	N/A	SHELL

Certificate of Authorization: Type "U" No. 32685 Expires JULY 11 2013

Date Jan. 15/13 Name Prolink Fabrication Ltd. Signed [Signature]
(Manufacturer) (Representative)

Date JAN 15 2013 Name [Signature] Commission AB 249 NB 12900 A
(Authorized Inspector) (Nat'l Board incl. Endorsement, State, Province and No.)