

# 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 Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

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1. Manufactured and certified by: Louisiana Machinery Co. L.L.C. 4727 NW Evangeline Thwy. Carencro, La. 70520  
(Name and address of Manufacturer)

2. Manufactured for: ProSep Technologies Inc. 5353 W. Sam Houston Parkway, N. Suite 150 Houston, Tx. 77041  
(Name and address of Purchaser)

3. Location of installation North Slope, Alaska  
(Name and address)

4. Type: VERT. LMC08023 N/A 4-4367A Rev 4 25 2009  
(Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (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 2007  
Year

to N/A N/A N/A  
Addenda (date) (Code Case numbers) [Special Service per UG-120 (d)]

6. Shell SA-516-70N 2.750" .125" 108" 14'-11" S/S  
Material spec. number, grade) Nominal thickness (Corr. allow) (Inner diameter) (Length (overall))

7. Seams: TYPE 1 FULL 100 1150 2.5 TYPE 1 FULL 100 2  
[Long (welded, dbl. singl., lap, butt)] [R.T. (spot or full)] (Eff. %) (H.T. temp.) (Time, hr) [Girth (welded, dbl. singl., lap, butt)] [R.T. (spot or full)] (Eff. %) (No. of courses)

8. Heads: (a) Material SA-516-70N (b) Material 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	2.600"	.125"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b)	BOTTOM	2.600"	.125"	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

If removable, bolts used (describe other fastenings) N/A  
(Material spec. number, grade, size, number)

9. MAWP 900 N/A at max. temp. 300 N/A  
(Internal) (External) (Internal) (External)  
 Min. design metal temp. -20 at 900 Hydro. pneu., or comb. test press. 1246 PSI

10. Nozzles, inspection, and safety valve openings:

Purpose (Inlet, Outlet, Drain)	Number	Diameter or Size	Type	Material	Nominal Thickness	Reinforcement Material	How Attached	Location
INLET	1	30" 600#	RF	SA-350-LF2	6.50"	WELDED	UW16.1(z-1)	SHELL
PROCESS	3	3" 600#	RF (V1)	SA-350-LF2	1.75"	WELDED	UW16.1(z-1)	SHELL
PURGE	1	2" 600#	RF (HB)	SA-350-LF2	1.00"	WELDED	UW16.1(z-1)	SHELL
VENT	1	6" 600#	RF (HB)	SA-350-LF2	2.06"	WELDED	UW16.1(z-1)	SHELL
MANWAY	1	24" 600#	RF (F)	SA-350-LF2	6.50"	WELDED	UW16.1(z-1)	SHELL
VENT (N4)	1	2" 600#	RFWN	SA-350-LF2 / SA-333 GR6	0.436"	WELDED	UW16.1(z-1)	VAPOR OUTLET

11. Supports: Skirt YES Lugs 3 Legs N/A Other N/A Attached Welded / Shell & Skirt  
(Yes or no) (Number) (Number) (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, Manufacturer's name and identifying stamp)

Yes, Shells / Heads, Production Impacts Tested Per UG-84 Item 10 Continued on Form U4

### 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 Number 35,085  
 expires 5/3/2011

Date 12-15-09 Co. Name Louisiana Machinery Co. L.L.C. Signed Uwayne Clout  
(Manufacturer) (Representative)

### CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Louisiana Machinery Co. L.L.C. at 4727 NW. Evangeline Thwy. Carencro  
 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 Louisiana and employed by OneBeacon America Insurance Co. Lynn, MA.

have inspected the component described in this Manufacturer's Data Report on 121509, 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 this 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 121509 Signed John M. B... Commissions NB 11527 ABN 121509  
(Authorized Inspector) (National Board (Incl endorsements) State, Province and number)

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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 Louisiana Machinery Co. L.L.C. 4727 NW. Evangeline Thwy. Carencro La. 70520  
(Name and address of Manufacturer)  
2. Manufactured for ProSep Technologies Inc. 5353 W. Sam Houston Pkwy. N. Suite 150 Houston, Tx. 77041  
(Name and address of Purchaser)  
3. Location of installation North Slope Alaska  
(Name and address)  
4. Type VERT. SCRUBBER LMC08023  
(Horizontal vertical, or sphere) (Tank, separator, heat exch., etc.) (Manufacturer's serial number)  
N/A 4-4367A Rev. 4 25 2009  
(CRN) (Drawing No.) (National Board number) (Year built)

Data Report Item Number	Remarks
Vapor Outlet (N 1)	1- 30" 600# WN STUB SA-350-LF2 5.75" WELDED UW16.1(z-1) TOP HEAD 30" LR 90 ELL SA-420-WPL6 1.250" THK. 30" RFWN SA-350-LF2
OUTLET (N 3)	* 1- 4" WN STUB SA-350-LF2 1.625" WELDED UW16.1(z-1) BOTTOM HEAD 4" 90 ELL SA-420-WPL6 .337" 4" S/80 PIPE SA-333-GR6 4" 600# RFWN SA-350-LF2 S/80
PROCESS (N5B, N6B)	** 2- 3" 600# WN STUB SA-350-LF2 1.750" WELDED UW16.1(z-1) BOTTOM HEAD 3" LR 90 ELL SA-420-WPL6 .300" 3" S/80 PIPE SA-333-GR6 3" 600# RFWN SA-350-LF2 S/80
	* (N3) LIQUID OUTLET 4" . . BUTT WELDS TO ELBOW, PIPE, RFWN FLANGE NOT P.W.H.T.
	** (N5B, N6B) BRIDLE / TRANSMITTER 3" . . BUTT WELDS TO ELBOW, PIPE, RFWN FLANGE NOT P.W.H.T.

Certificate of Authorization: Type: U No. 35,085 Expires 5/3/2011

Date 12-15-09 Name Louisiana Machinery Co. L.L.C. Signed Clayton Clift  
(Manufacturer) (Representative)

Date 12-15-09 Name John D. B... .. Commission NB# 11527 ASN SA 1209  
(Authorized Inspector) (National Board (incl. Endorsement), State, Province and number.)