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

1. Manufactured and certified by **Superior Fabrication, Inc., 701 South Eastern, Elk City, Oklahoma, 73644**
(Name and address of manufacturer)

2. Manufactured for **OilPro, Oilfield Production Equip. Ltd, 530 Cleveland Crescent S.E., Calgary, Alberta, T2G 4A9, CANADA**
(Name and address of purchaser)

3. Location of Installation **Unknown**
(Name and address)

4. Type **Horizontal** (Horizontal or vertical, tank) | **009934-7** (Manufacturer's serial number) | **V8151.2** (CRN) | **D009934-B** (Drawing number) | **5541** (National Board number) | **2013** (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** (year) to **2011** [Addenda, if applicable (Date)]

2714 (Code Case numbers) | **N/A** (Special Service per UG-120(d))

6. Shell: **SA-516-70** (Material spec. number, grade) | **0.375 in** (Nominal thickness) | **0.125 in** (Corr. allow.) | **96" (OD)** (Inner diameter) | **30' 0"** [Length (overall)]

7. Seams: **Type 1** [Long. (welded, dbl., sngl., lap, butt)] | **Full** R.T.(Spot or Full) | **100%** Eff.(%) | **1100 °F** (H.T. temp) | **30 min** Time (hr) | **Type 1** [Girth. (welded, dbl., sngl., lap, | **Full** [R.T. (spot or full)] | **100%** Eff(%) | **3** No. of Courses

8. Heads: (a) Material **SA-516-70** (Spec. no., grade) (b) Material **SA-516-70** (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	0.4172"	0.125"	90"	5.750"	0	N/A	N/A	N/A	Concave
(b)	END	0.4172"	0.125"	90"	5.750"	0	N/A	N/A	N/A	Concave

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

9. MAWP **75 psi** (Internal) **N/A** (External) at max. temp. **250 °F** (Internal) **N/A** (External)

Min. design metal temp. **-20 °F** at **75 psi** . Hydro, pneu., or comb. test pressure **HYDRO at 98 psi**

Proof test **N/A**

10. Nozzles, inspection and safety valve openings:

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	
Manway	1	24"	RFWN/Pipe	SA-106-B	SA-105	.500"/CL150	0.1250"	SA-516-70	UW-16.1(s)	FIG.2-4(6)	Shell
Firetube	1	24"	FAB./FLG	SA-516-70	SA-51670	75 psi	0.1250"	SA-516-70	UW-16.1(s)	FIG.2-4(6)	Head
LC-Water	1	24"	RFWN/Pipe	SA-106-B	SA-105	CL150/.500"	0.1250"	Integral	UW-16.1(l)	FIG.2-4(6)	Head

Additional Nozzles - See Attached U-4...

11. Supports: Skirt **No** (Yes or no) Lugs **2** (Number) Legs **0** (Number) Other **0** (Describe) Attached **Welded to Shell** (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:

Shell Course per McJunkin Red Man Corp.
S/N K3557-01-1
(Name of part, item number, Manufacturer's name and identifying stamp)

PSV. provided by customer per UG-125.
Exempt from impact testing per UG-20(f).
Tested in horizontal position.

Additional Remarks - See Attached U-4...

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. **29800** expires **April 6, 2015**

Date **08/14/2013** Co. name **Superior Fabrication, Inc.** (Manufacturer) Signed _____ (Representative)

CERTIFICATE OF SHOP/FIELD INSPECTION

Vessel constructed by Superior Fabrication, Inc. at 701 South Eastern, Elk City, Oklahoma, 73644 I, the undersigned, holding a valid commission issued by The National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province OK, TX and employed by OneCIS Insurance Company, of Lynn, MA have inspected the component described in this Manufacturer's Data Report on August 14, 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 08/14/2013 Signed _____ (Authorized Inspector) Commissions 12397A, OK9, TX 1938 (National Board (incl. endorsements), State, Province and number)

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 **Superior Fabrication, Inc., 701 South Eastern, Elk City, Oklahoma, 73644**
(Name and address of Manufacturer)

2. Manufactured for **OilPro, Oilfield Production Equip. Ltd, 530 Cleveland Crescent S.E., Calgary, Alberta, T2G 4A9, CANADA**
(Name and address of Purchaser)

3. Location of installation **Unknown**
(Name and address)

4. Type **Horizontal** (Horizontal, vertical, or sphere) **N/A** (Tank, separator, heat exch., etc.) **009934-7** (Manufacturer's serial number)

V8151.2 (CRN) **D009934-B** (Drawing number) **5541** (National Board number) **2013** (Year built)

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	
Gas Dome	1	24"	RFWN/Pipe	SA-106-B	SA-105	CL150/.500"	0.1250"	SA-516-70	UW-16.1(s)	FIG.2-4(6)	Shell
LC-Oil	1	8"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Head
Inlet	1	6"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Shell
PSV	1	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Shell
Oil Outlet	1	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Head
Water Outlet	1	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Shell
LLSD	1	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Head
HLSD	1	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Head
Interf.-Outlet	2	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Shell
Anode	4	4"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Head
Drai Outlet	2	3"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	Shell
Spare	2	2"	RFLWN	N/A	SA-105	CL150	0.1250"	Integral	N/A	UW-16.1(l)	MW
Preheat	2	2"	RFWN/Pipe	SA-106-B	SA-105	CL150/.218"	0.1250"	Integral	UW-16.1(l)	FIG.2-4(6)	Head
Thermostat	1	1"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Shell
HTSD	1	1"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Shell
Spare	1	1"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Shel
Thermometer	2	3/4"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head/Shell
PI	1	1/2"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head
LI-Oil	2	1/2"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head
LI-Water	2	1/2"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head
Sample port	6	1/2"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head
LI-Interface	2	1/2"	CPLG	SA-105	N/A	3000#	0.1250"	Integral	UW-16.1(l)	N/A	Head

Additional Remarks:

ABSA # 043, 044 97049051 1957
(2) 24" CL150 RF Blind SA-105
(52) Bolt nuts Hex 1/2" 13UNC 304SS
(52) Bolts Hex 1/2" 13UNCx11/2" Lg. SS 304
(104) Bolts Nut Hex 3/4"10UNC SA-194-2H
(52) Bolts Stud 3/4" SA-193-B7
(180) NUT 1-1/4" SA-194-2H
(90) Bolts 1-1/4" SA-193-B7
(5) Repads SA-516-70
(1) Removable Gas Dome
(2)ASME Name Plate; SA-36 Welded to Head
(2)Lift Lugs; SA-36 Welded to Shell
(2)Lugs; SA-36 Welded to Head

Certificate of Authorization: Type **"U"** No. **29800** Expires **April 6, 2015**

Date **08/14/2013** Name **Superior Fabrication, Inc.** (Manufacturer) Signed [signature] (Representative)

Date **08/14/2013** Name [signature] (Authorized Inspector) Commissions: 12397A, OK9, TX 1938 [National Board (incl. endorsements)]

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3. Location of installation **Unknown**
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Horizontal	N/A	009934-7	
(Horizontal, vertical, or sphere)	(Tank, separator, heat exch., etc.)	(Manufacturer's serial number)	
V8151.2	**D009934-B**	**5541**	**2013**
(CRN)	(Drawing number)	(National Board number)	(Year built)

Additional Remarks:

PWHT Weld repair to FT Support & Flange per UCS-56(f)

Certificate of Authorization: Type **"U"** No. **29800** Expires **April 6, 2015**

Date **08/14/2013** Name **Superior Fabrication, Inc.** (Manufacturer) Signed [signature] (Representative)

Date **08/14/2013** Name [signature] (Authorized Inspector) Commissions: 12397A, OK9, TX 1938 [National Board (incl. endorsements)]

1809410 exe: v6.2.38 (07/13)