

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, Section VIII, Division 1

A 636971

1. Manufactured and certified by Moss Fabrication Ltd., 6619 86th Avenue S.E. Calgary, AB Canada T2C 2S4
(Name and address of Manufacturer)
2. Manufactured for Husky Energy Inc 707 8 Ave SW Calgary AB T2P 1H5
(Name and address of Purchaser)
3. Location of Installation LSD 02 - 20 - 050 - 18 W5M
(Name and address)
4. Type Horizontal 4761-1 W4426.2 R4761-1 Rev 1 n/a 2014
(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

2010
Year

to 2011 n/a n/a
Addenda (Date) Code Case Nos. Special Service per UG-120(d)
6. Shell: SA333-6 0.688" 0.0625" 11.374" 8'-7"
(Mat'l. Spec. No., Grade) (Nom. Thk. (in.)) (Corr. Allow. (in.)) (Inner Diameter (ft. & in.)) (Length (overall) (ft. & in.))
7. Seams: Seamless n/a 100% n/a Type 1 Spot 70 2
(Long. (Welded, Dbl., Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (H.T. Temp. (°F)) (Time (hr)) (Grth (Welded, Dbl., Sngl., Lap, Butt)) (R.T. (Spot or Full)) (Eff. (%)) (No. of Courses)

8. Heads: (a) Mat'l. SA516-70N (b) Mat'l. SA420WPL6
(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)	Heads *	0.7750"	0.0625"	n/a	n/a	2:1 SE	n/a	n/a	n/a	Concave
(b)	Boot Head	0.378"	0.0625"	n/a	n/a	Weld Cap	n/a	n/a	n/a	Concave

If removable, bolts used (describe other fastenings)

9. MAWP 1440 n/a psi at max. temp. 130 n/a °F.
(internal) (internal) (internal)
Min. design metal temp. -49F °F at 1440 psi. Hydro., pneumatic test pressure 2160 psi.
Proof test n/a

10. Nozzles, inspection and safety valve openings:

Purpose (Inlet, Outlet, Drain)	No.	Diam. or Size	Type	Material		Nozzle Thickness		Reinforcement Material	Attachment Details		Location (Insp. Open.)
				Nozzle	Flange	Nom.	Corr.		Nozzle	Flange	
Inlet	1	6" NPS	CI600RFWN	SA333-6	**	0.432"	.0625"	n/a	UW16.1c	Type1	Shell Head
Outlet	1	6" NPS	CI600RFWN	SA333-6	**	0.432"	.0625"	n/a	UW16.1c	Type1	Shell Head
LC	1	2" NPS	CI600RFLWN	**	n/a	0.660"	.0625"	n/a	UW16.1c	Type1	Boot
Drain	1	2" NPS	CI600RFWN	SA333-6	**	0.343"	.0625"	n/a	UW16.1c	Type1	Boot Head
LSH	1	2" NPS	CI600RFLWN	**	n/a	0.660"	.0625"	n/a	UW16.1c	Type1	Boot
LG	2	2" NPS	CI600RFWN	SA333-6	**	0.343"	.0625"	n/a	UW16.1c	Type1	Boot
PI/PSV/Insp	1	2" NPS	CI600RFWN	SA333-6	**	0.343"	.0625"	n/a	UW16.1c	Type1	Shell
TV Insp.	1	2" NPS	CI600RFWN	SA333-6	**	0.343"	.0625"	n/a	UW16.1c	Type1	Shell
Boot	1	6" NPS	Pipe	SA333-6	n/a	0.432"	.0625"	***	UW16.1c	n/a	Shell

11. Supports: Skirt no Lugs 0 Legs 0 Other 0 Attached n/a
(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

See U-4

* Left and Right Hand Heads, **SA350LF2CH1, ***SA333-6

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 33,250 expires April 28, 2014

Date MAR 10 2014

Co. name Moss Fabrication Ltd.

Signed [Signature]
(Representative)

CERTIFICATE OF SHOP / FIELD INSPECTION

Vessel constructed by Moss Fabrication Ltd at 6619 86th Ave SE Calgary, 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

ABSA

have inspected the component described in this Manufacturer's Data Report on MAR 10 2014, 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 MAR 10 2014

Signed

[Signature]
(Authorized Inspector)

Commissions

AB 11 NB 10270 A, B

(Nat'l Board (incl. endorsements), State, Prov., and No.)

