

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS

IA 595302

2007, 08

(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: MAR-QUINN INDUSTRIES LTD., 7115 SPARROW DRIVE, LEDUC, ALBERTA, CANADA, T9E 7L1  
(Name and address of Manufacturer)

2. Manufactured for: Open Range Energy Corp. Suite 1100, 645 - 7th Avenue S.W. Calgary, Alberta T2P 4G8  
(Name and address of Purchaser)

3. Location of installation STOCK  
(Name and address)

4. Type: HORIZONTAL 1414-09-A1-1 U9791.2 392 REV B - 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 2008  
Year

6. Shell SA-516-70N 0.375" 0.125" 72" 20' s/s  
Addenda (date) (Code Case numbers) (Special Service per UG-120 (d))

7. Seams: TYPE 1 FULL 100% - TYPE 1 SPOT 2  
(Material spec. number, grade) (Nominal thickness) (Corr. allow) (Inner diameter) (Length (overall))  
[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	0.3125"	0.125"	-	-	2:1	-	-	-	CONCAVE
(b)	BOTTOM	0.3125"	0.125"	-	-	2:1	-	-	-	CONCAVE

If removable, bolts used (describe other fastenings) \_\_\_\_\_  
(Material spec. number, grade, size, number)

9. MAWP 50 psi at max. temp. 100 °F  
(Internal) (External) (Internal) (External)

Min. design metal temp. -20°F at 50 psi Hydro. pneu., or comb. test press. Hydro, 75 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	10"NPS	CL150RFWN	SA105N/106-B	SCH 80	-	UW16.1(c)	Shell
Outlet	1	12"NPS	CL150RFWN	SA105N/106-B	SCH HX	-	UW16.1(c)	Shell
PSV, Water Out	2	3"NPS	CL150RFWN	SA105N/106-B	SCH 160	-	UW16.1(c)	Shell
Level Transmitter	1	3"NPS	CL150RFWN	SA105N/106-B	SCH 160	-	UW16.1(c)	Shell
Level Switch	1	2"NPS	CL150RFWN	SA105N/106-B	SCH 160	-	UW16.1(c)	Shell
Level Gauge, PI, Spare	4	3/4"	CPLG	SA-105N	CL6000	-	UW16.1(a)	Shell
Manway	1	20"NPS	CL150RFWN	SA105N/333-6	SCH STD	-	UW16.1(c)	Shell

11. Supports: Skirt - Lugs - Legs - Other SADDLES Attached SHELL : WELDED  
(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:

(Name of part, item number, Manufacturer's name and identifying stamp)  
 Vol: 622.09 cu.ft.. Construction Dwg #1414-09-A1-1 Rev-2. Impact Test exempt per UG 20(f), 1 thru 5, UCS 66(d).  
 MW Boltina. 20 - 1 1/8"x 6 1/4"N/C Bolts w 40 Nuts SA-193-B7 / SA-194-2H .

**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 33,420  
 expires JUL 09/2011

Date Dec 28 /09 Co. Name Mar-Quinn Industries Ltd. Signed Randy B. [Signature]  
(Manufacturer) (Representative)

**CERTIFICATE OF SHOP/FIELD INSPECTION**

Vessel constructed by Mar-Quinn Industries Ltd. at 7115 - Sparrow Drive Leduc Alberta Can. T9E 7L1  
 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 Dec 28/09, 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 Dec 28 /09 Signed [Signature] Commissions AB 95A  
(Authorized Inspector) (National Board (incl endorsements) State, Province and number)