

National Board Number: 404

CORRECTED COPY

Mfg. Representative: *[Signature]*

Date: 12-21-15

Authorized Inspector: *[Signature]*

Date: 12-21-15

**FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS**  
 (Alternate Form for Single Chamber, Completely Shop or Field Fabricated Vessels)

As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

- Manufactured and certified by DRAGON ESP LTD 700 South 550 East Provo, Utah 84606  
 (Name and address of Manufacturer)
- Manufactured for DRAGON PRODUCTS LTD. 205 FM 1909. LIBERTY. TX-77575  
 (Name and address of Purchaser)
- Location of installation UNKNOWN  
 (Name and address)
- Type Horizontal 112479 00002420 404 2015  
 (Horizontal or vertical, tank) (Manufacturer's serial number) (CRN) (Drawing number) (National Board number) (Year built)
- ASME Code, Section VIII, Division 1 2013 Edition N/A N/A  
 [Edition and Addenda, if applicable (date)] (Code Case numbers) [Special service per UG-120(d)]
- Shell SA-516 GR.70N 1-3/8" 0 33-1/4" 10'-0"  
 (Material spec. number, grade) (Nominal thickness) (Corr. allow.) (Inner diameter) (Length (overall))

Body Flanges on Shells

No.	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Location	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	

- Seams 1 Full 100% N/A 1 Full 100% 1  
 [Long. (welded, dbl., snl., lap, butt)] [R. T. (spot or full)] (Eff., %) (H. T. temp.) (Time, hr) [Girth (welded, dbl., snl., lap, butt)] [R. T. (spot or full)] (Eff., %) (No. of courses)

- Heads: (a) Material SA-516 GR.70N (b) Material SA-516 GR.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)	FRONT	1.22	0	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE
(b)	REAR	1.22	0	N/A	N/A	2:1	N/A	N/A	N/A	CONCAVE

Body Flanges on Heads

	Location	Type	ID	OD	Flange Thk	Min Hub Thk	Material	How Attached	Bolting				
									Num & Size	Bolting Material	Washer (OD, ID, thk)	Washer Material	
(a)													
(b)													

- MAWP 1440 0 at max. temp. 132 132  
 (Internal) (External) (Internal) (External)  
 Min. design metal temp. -15 at 1440 Hydro., pneu., or comb. test pressure 1872

Proof test \_\_\_\_\_

- 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	
INLET/OUTLET	3	4"	LWN	SA-105		1.00	0	N/A	UW16.1c		
OIL/WATER OUT	2	3"	LWN	SA-105		0.812	0	N/A	UW16.1c		
DRAIN/VENT/MISC	6	2"	CPLG	SA-105		0.78	0	N/A	UW16.1a		HEAD/SHELL
GUAGE PORT	1	3/4"	CPLG	SA-105		0.31	0	N/A	UW16.1a		
GUAGE PORT	4	3/4"	CPLG	SA-36		0.53	0	N/A	UW16.1c		
Misc.	2	1/2"	CPLG	SA-105		0.54	0	N/A	UW16.1a		
BRIDLE	2	1"	TOL	SA-105		0.688"	0	N/A	UW16.1C		

- Supports: Skirt \_\_\_\_\_ Lugs \_\_\_\_\_ Legs \_\_\_\_\_ Other SADDLE Attached SHELL-WELDED  
 (Yes or no) (Number) (Number) (Describe) (Where and how)

- Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report: (2)SADDLES ATTACHED TO PADS, SA-516 GR.70. ALL ITEMS IMPACT EXEMPT PER UG20f. SEE ATTACHED U-4  
 (Name of part, item number, Manufacturer's name and identifying stamp)

2"CPLGS ON HEAD AND SHELL TOP ARE INSPECTION OPENINGS. SAFETY VALVES SUPPLIED BY OTHERS.

National Board Number: 404

Mfg. Representative: Michael Lewis

Date: 12-21-15

Authorized Inspector: B. H. Kelley

Date: 12-21-15

**FORM U-1A (Back)**

**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 44812

expires 1/14/2016

Date 12-21-15

Co. name DRAGON ESP LTD

(Manufacturer)

Signed

Michael Lewis  
(Representative)

**CERTIFICATE OF SHOP / FIELD INSPECTION**

Vessel constructed by DRAGON ESP LTD at 700 South 550 East Provo, Utah 84606

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by One CIS Insurance Company - Lynn, Ma.

have inspected the component described in this Manufacturer's Data Report on 12-21-15, 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 12-21-15

Signed B. H. Kelley  
(Authorized Inspector)

Commissions

11390 AB

[National Board (incl. endorsements)]

