National Board Number: 967

Mfg. Representative:

Authorized Inspector:

C Date: Date:

FORM U-1A MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS (Alternate 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 DRAGON ESP LTD 700 South 550 East Provo, Utah 84606																			
	(Name and address of Manufacturer)																			
2.	2. Manufactured for GREAT WESTERN - WINDSOR, CO (Name and address of Purchaser)																			
3.	3. Location of installation UNKNOWN																			
4	(Name and address) 4. Type Horizontal 150489 - 00002641 REV5 967 2017																			
4.				/ertical, ta	ank)	-	acturer's	serial nu	ımber) - (CRN)			wing number		(National Box	ard number)		(Year	built)
5.	ASME Code, Section VIII, Division 1 2015 EDITION																			
6	Shell S	Δ-516 ₋ -	70				tion and <i>i</i> 0.375"	Addenda	ı. it ap		date)]			ode Case i 5.25"	numb	ers)	Specia 240"	service p	er UG-	120(0)]
Ų.	onen <u>o</u>			c. numbe	er, grad			al thickn	ess)		Corr. allo	ow.)			er di	ameter)		[Length	(overall)]
				-					E	Body Fla	nges o	n Shells								
		Bolting																		
No	Type	DO Flance The Min Hub The			Thk	Material How Atta			ached	ached Location		Num & Size		Bolting Mate		Washer (OD, ID, thk) W		er Material		
No.	Type -	pe ID OD Flange Thk Min Hub Thk		7 1116			acried	-		-		-	1101 (00, 1	-		-				
-	-								-				-		_	1	-		-	
-	-							-			-		4					 - -		
		TVDE 1 None 70% TVDE 1 None 70% 2																		
7.	Seams T	eams TYPE 1 None 70% - TYPE 1 None 70% 2 [Long. (welded, dbl., sngl., lap, butt)] [R. T. (spot or full)] (Eff., %) (H. T. temp.) (Time, hr) [Girth (welded, dbl., sngl., lap, butt)] [R. T. (spot (Eff., %) (No. of courses)																		
	[Long. (weided, dbi., sngi., lap, butt)] [K. 1. (spot or full)] (בוד., א) (דו. 1. terrip.) (דוודופ, דור) [נוודו (weided, dbi., sngi., lap, butt)] (דוודופ, דור) (בוד., א) (דום היים ביים ביים ביים ביים ביים ביים ביי																			
8.	Heads:	leads: (a) Material SA-516-70 (b) Material SA-516-70																		
							(Spec. i	no., grad	le)								(Spec. no.,			
	Location (Top,			nimum Corrosio		- 1			nuckle	Elliptical		Ι,			emispherical	Flat	Flat Side To			
(a)	Bottom, Ends) BURNER			ckness A		Allowan 0.00"			Radius			atio Apex An		Apex Angl	e	Radius	- Diameter	_		
(b)				.282"			$\overline{}$	-	-			2:1	+	-		-			CONCAVE	
	(6) CONTINUE 0.202 0.00																			
									E	Body Fla	nges o	n Heads	; 				Bolting	-		
													ŀ					sher		
	Location	tion Type ID OD Flange Thk Min		Min Hul	Hub Thk Material		aterial	How Attached		ed	Num & Size		Bolting Mate	rial (OD, I	al (OD, ID, thk) W		er Material			
(a)	-			-	<u>-</u>			 	-				-	-			-			
(b)	-		-	-	l	-					-1					L	i		_	-
9.	MAWP	75 PSI		ntemal)		<u>-</u>		(Externa	al)		at ma	x. temp	٠.	200 F	(Int	ternal)		(Exte	mal)	·
	Min. desi	gn meta		,	o° F			•	,	75 PSI	1	Hydro.,	pne	ou., or co		test pressure	98 PSI	<u> </u>		<u> </u>
	Proof test																			
10			ion o	and noto	ti val	···	oinas:													
10.	Nozzles,		1011, a			ve ope	migs.	Mate	orial		, Al	ozzle Thi	ckn	1055	Da:	nformarent	Attachme	ent Details		Location
(Inle	Purpose (Inlet, Outlet, Drain, etc.)			Diameter or Size		Type Nozzle			Flange			Nozzłe Thick Nom.				nforcement Material	Attachment Details Nozzle Flange		— 1	nsp. Open.)
Ì	Inlet		1	4"-30	00#			105		-		500"	0.	0.00"		-	i -			-
	iter/Oil Lv	2					06B				593"		.00"			i	-			
	Vater/Oil C	4					105			- 0.5 - 0.1			.00"	-		i	-	-	-	
	Water/Oil LG Gas Dome					RFSO	SA-105 SA-106B		5	- SA-105		500"		.00"	-		j	uw21-	1	-
	Drain	4			CPLG	SA-	SA-105		-	0.3	375" C		.00"		-	i	-		-	
Pre-Heat Inlet/Outlet 2 1"-3000# CPLG SA-105 - 0.218" 0.00" - j -																				
11.	1. Supports: Skirt NO Lugs NA Legs NA Other SADDLES Attached SHELL/WELDED (Yes or no) (Number) (Number) (Describe) (Where and how)																			
12	(Yes or no) (Number) (Number) (Describe) (Where and now) 12. Remarks: Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following																			
14.	items of the report:																			
	SVEETA	\/ <u>\</u> \ \\	S DE	OVIDE	D BV	OTHE	RS SEE				n numbe	er, Manuf	acti	urer's name	e and	i identifying stan	пр)			
	SAFETY VALVES PROVIDED BY OTHERS, SEE ATTACHED U-4											·								



CERTIFICATE OF SHOP / FIE We certify that the statements made in this report are correct and that all details conform to the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII,	of design, material, construction, and workmanship of this vessel								
expires	Signed (Representative)								
Vessel constructed by <u>DRAGON ESP LTD</u> at <u>700 South 550 East Provo, Utah 84606</u> I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and employed by <u>ONE CIS INSURANCE COMPANY - LYNN, MA</u> have inspected the component described in this Manufacturer's Data Report on									



National Board Number: 967

Mfg. Representative:

Date: Authorized Inspector: Date:

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

								-						
Manufactured an	d cer	tified by <u>C</u>	RAGON	ESPLTD 700 S										
Manufactured for		REAT WES	STERN - V	VINDSOR, CO		(Name and a	ddress of Ma	nufacturer)						
Location of instal	lation	UNKNO	OWN		(Nam	e and addres	s of Purchase	er)						
o. Location of matar	auon	<u> Olivira</u>	5000	"		(Name a	ind address)							
4. Type <u>Horizont</u>				<u>Se</u>	150489 (Manufacturer's serial number)									
_	(Hor	izontal, vertica	ıl, or sphere	•	Tank, separ) 02641 REV5	ator, heat exc	ch., etc.)	(Ма 967		s senal nur 2017	nber)			
		(CRN)			(National Board Number) (Year built)									
Purpose (Inlet, No. Diameter Flan			Flange	Mat	erial	Nozzle T	hickness	Reinforcement	How A	ttached	Location			
Outlet, Drain, etc.)	L_	or Size	Туре	Nozzle	Flange	Nom.	Corr.	Material		Flange	(Insp. Open.)			
High Lvl Switch	1	2"-3000#	CPLG	SA-105		0.313"	0.00"	-	i	-	-			
PSV T-12 w/ TW	1	2"-3000#	CPLG	SA-105 SA-105	-	0.313" 0.218"	0.00"	<u> </u>	i	-	<u>-</u>			
Press. GA	1	1"-3000#	CPLG	SA-105	<u>-</u>	0.218"	0.00"	-	<u> </u>	<u> </u>				
Burner Nozzle	1	*	PLATE	SA-516-70	SA-516-70	0.750"	0.00"	SA-516-70	Hi	uw21-1	-			
Fire Tube Inlet	1	24"-STD	PIPE	SA-106B	-	0.375"	0.00"	-	i	-	-			
Fire Tube Exhaust	1	24"-STD	PIPE	SA-106B	-	0.375"	0.00"	-	i	-	-			
Manual Starter	1	2"-3000#	CPLG	SA-105	-	0.313"	0.00"	-	i	-	-			
Manway/Cvr	1	20"-150#	RFSO	SA-106B	SA-105	0.500"	0.00"	SA-516-70	С	uw21-1	SHELL			
T-12M w/ TW	1	1"-3000#	CPLG	SA-105	-	0.218"	0.00"	-	i	-	-			
PI	1	3/4"-3000#		SA-105	-	0.165"	0.00"	<u>-</u>	i	-	-			
Anode	2	4"-SCH80	VIC	SA-106B	-	0.337"	0.00"		j	-	-			
Spare	1	2"-3000#	CPLG	SA-105	-	0.313" 0.875"	0.00"	-	i	-	-			
Gas Outlet	1	4"-6000#	CPLG	SA-105		0.673	0.00	-	<u> </u>	I				
Data Report Item Number Remarks														
INE 10			AL	L NOZZLE ATT	ACHEMENT DE	TAIL PER	UW-16.1							
.INE 10*			FIF	RETUBE NOZZI	E: 58 3/8" X 26	7/8" X 16 1	/4"LG, 3/4"	PLATE, SA-516-70						
INE 10			FIF	RETUBE BURN	ER FLANGE: 33	1/2" X 65",	1 1/4" PLA	TE, SA-516-70						
INE 12			<u>IM</u>	PACT TEST EX	PEMPT PER UC	CS-66 & UG	5-20(f)							
INE 12					R, RF FLANGE B									
INE 12					T, 20" 150#, SP		ND	QTY = 1						
INE 12				STUD, 1 1/8" 5 - UNC X 8"LG, SA-193-B7 QTY = 20 NUT, HEAVY HEX, 1 1/8" 5 - UNC, SA-194-2H QTY = 40										
INE 12				WASHER, 1 1/8" FLAT, GRADE 8 QTY = 40										
INE 12				ASHER, 1 1/6 F	LAT, GRADE 6			QII - 4						
.INE 12				AS DOME COVE	R RE EL ANGE	BLIND 20	" 150# SA-	105 QTY = 1						
INE 12				GAS DOME COVER, RF FLANGE BLIND, 20" 150#, SA-105 QTY = 1 GAS DOME GASKET, 20" 150#, SPIRAL WOUND QTY = 1										
					,									
·			<u>-</u> _							_				
Certificate of Authoriz	ation	: Type <u>L</u>	J	No	44,812		Expires	01/14/2019	-1					
Date 4-6-17	7	Nam	ne DP	AGON ESP LTE)		Signed	allot 1	If a	, ,				
, u.o					/ lanufacturer)				(Represer	tative)				
Date 4-6-	11	Nam	ne /	3 H	16.	Commission	s	11390						
				(Authorized Ins		***		[National Boar	d (incl. end	orsements)]			
					-									