FORM U-1 MANUFACTURER'S DATA REPORT FOR PRESSURE VESSELS 147737-1 As Required by the Provisions of the ASME Boiler and Pressure Vessel Code Rules, Section VIII, Division 1

$\overline{}$				4.50																		
1.	Manufactured a	and cert	ified by				TRAN	TER, I	INC.	1900	OLD BUF	K HIG	SHWAY WICH	ITA FA	LLS, TI	EXAS 76	306					
2.	Manufactured for CENOVOUS ENERGY INC, CALGARY, AB, CANADA (Name and address of Manufacturer) (Name and address of Purchaser)																					
3.	Location of inst	allation	CENC	VOUS E	NERGY II	NC, CALGA	RY, AB, CA	NADA	A (I	Name	e and add	ress c	of Purchaser)									
4.	Туре		Но	orizontal			12		PLAT		(Name an PE HEAT							SX8	52			
	W :	(Hor W0640	100	ertical, o	r sphere)	D-6-1	47737-1 RE\		, sepa	rato	r, jkt. vess	el, he	at exch., etc.)	_		(Manufact	urer's s	erial numb	oer)		
		(CRN)		-		wing number		-00	_		(Natio	onal Board nur	mber)				(Year l	ouilt)			
5.	ASME Code, S	ection \	∕III, Div.	1 —			2011a Adder a, if applicat		ate)]		-	(Code	NA e Case numbe	er)		ISI	pecial serv	NA vice per	UG-120(191		
	ns 6 - 11 incl. to					s, jackets o			, shell		eat excha Overall len	ngers,			chambe	er vessels	\$.					
ь. 1	Shell: (a) Nur		course(s)	-		NA Material		_	Thick	22.5		_	Joint (Cat. A)		Circu	m Joint	Cat. A, B	& C)	Heat Tr	eatment		
No	Cours		ngth	-	Spec./Grade or Type					Cor	_	_	, Spot, None	Eff.	Туре		ot, None	Eff.	Temp.	Time		
1	34 3/4"		3/16"	1	S	A-516-70N			3 1/4"		-	•		-	-	- -			-			
2	34 3/4"	65	3/16"		S	A-516-70N			3"	Ţ	٠.		-	-	-				- 1	-		
Ē			2			-	-		-	Ŀ			-	:	•			1 -	٠.١	لـــــا		
7.	7. Heads: (a) NA (b) NA																					
(Material spec. number, grade or type) (H.T time & temp.) Location (Top. Thickness Radius Elliptical Conical											Homisph	(Material spec. number, emispherical Flat Side to Pr					ressure Category A Category A					
H	Location (1 Bottom, Er		Min.	Corr.	Crown	Knuckle	Ratio	-	ex Ang	-	Radiu	_	Diameter '	Conv		concave	Type		ot, None	Eff.		
(a)	.NA		- 1	-,	-		-			1	•		•			- (-			-		
(b)			-)				-		•	Į			- '	-								
If re	movable, bolts	used (d	escribe c	ther fas	tening)						(10) 2	DIA.,	SA-193-B7; N	NUTS S	A194-2	!H			,			
8	Type of lacket				3	NA					(Ma Jacket c		spec. number,	grade	size, n		NA					
8. Type of jacket NA Jacket closure NA (Describe as ogee and weld, bar, etc.)																						
	If bar, give dim	ensions							N/	A			-					polted,	describe			
9.		8 PSI		N.A		at max.	-	02 F			NA		Min. deşiğn	metal t	emp. –	-20) F	at _	218 P	SI .		
10.	(Interpretation of the Impact test	emal)		(Exter	nal)		NO, UC	rnal) S-66a	a & UN	100	External) 5					<u> </u>	at test te	empera	ture of _	NA .		
11.	Hydro., powerzy	DK EB)	nobx test	pressure	•	283 PSI		te yes		and	the comp	onen	t(s) impact tes	sted]	NA							
	ns 12 and 13 to Tubesheet	be comp	pleted for	tube see	ctions.			NA	-			1	N'A		N/	A			NA			
[Stationary (material spec. no.)] [Diameter (subject to press.)] (Nominal thickness) (Corr. allow.) [Attachment										nt (welded or bolted)] NA												
	(Floating (mater	ial spec	:. no.)]		(Diam	eter)		(Nor	minal (thick	ness)	-	(Corr.	allow.)				(Attacl	nment)			
13.	Tubes		N				NA						NA .			NA			NA			
Iten	(Mai ns 14 - 18 incl. to		ec. no., g			of jacketed	(O.D.) vessels or cl	hanne	els of h	neat e			kness)		(Numl	ber)		Туре	(straight o	or U)]		
			course(s			NA					erall 1engl					N/	A					
Γ.	Cours	e(s)				Material		Ī	Thick	ness		ong.	Joint (Cat. A)		Circui	m. Joint (Cat. A, B,	& C)	Heat Tre	eatment		
No.	-			Spec./Grade or Type				1	Nom.	Cor	r. Type	.Full,	Spot, None	Eff.	Туре	Full, Sp	ot, None	Eff.	Temp.	Time		
1	NA (IA -		<u> </u>				+++-		-	+-	-		-	-							
3				-		-		+	-	-	+-	-		-		-	-					
_	Hooder(s)					-			10/5()		(b)	4	**		1 1 1 1 1 1	L		I				
10.	Heads:(a)	1	Material s	spec. nu	mber, drad	e or type) (H.T time a	and te	mp.)	_	(0)	-	(Material	spec. r	number.	grade o	type) (H.	Ttim	e and tem	p.)		
	Location (T		Thick			dius	Elliptical	_	onical	T	Hemisphe	rical	Flat	-	to Pre				gory A			
	Bottom, En	ds)	Min.	Corr.	Crown	Knuckle	Ratio	Ape	x Ang	le	Radiu	\$	Diameter	Conv	ex C	oncave ·	Type	Full, Sp	ot, None	Eff.		
(a)	NA NA		-			-		-		+					+	, ,	-					
(b)	movable belt-	need (4	- escribe c	ther for	tening)				-		•		- NA				- 1		-			
a re	emovable, bolts	used (0	Carline C	raier las	coming)								IVA									

(Material spec. number, grade, size, number)

Form U-1 (Back)

16.	MAWP	NA		N	IA	at max. temp.	NA		NA	Min.	design metal temp.	NA	at	NA .	
17	Impact te	(Internal)		(Exte	mal)	-	(Internal). NA				-	at test temperature of NA .			
17.	impact tes				-	Indic	ate yes or	no and the	component	(s) impac	t tested1		imperatore		
18.	Hydro., p	REEK, DE SOR	ndx te	st pressure			oof test				NA				
19.		nspection, ar	nd safe		penings:				Nozzle Ť			122.2.2.3	-18/19/20/17		
	Purpose Diameter					Material				Reinforcement		ent Details	Location		
(1		,,,		Nozzle	Flange		Nom.	Corr.	Material	Nozzle	Flange	(Insp. Open.)			
_	Inlet/0			SB363-GR2			0.322	-		WLD	-	END FRAME			
H	1.1.44				1	-	0.000			WLD	-	- FND FDAME			
H	interd	Inlet/Outlet 2 7.981 SPC'L SB363-GR2					+		0.322	-	-	VVLD -	-	END FRAME	
Н								-	<u> </u>	-		+-	-		
-			+-	-	-	-		-	-	-		-	-	-	
\vdash			+-				+	-	1	-	-	-		-	
	1								rs //) CROUN		1 /42,500	VEL DED TO	L CND CDAME	
20.	20. Supports: Skirt NA Lugs 4 Legs 3 Others (2) GROUND LUGS Attached WELDED TO END FRAME (Yes or no) (Number) (Describe) (Where and how)														
21.	21. Manufacturer's Partial Data Reports properly identified and signed by Commissioned Inspectors have been furnished for the following items of														
	the report (list the name of part, item number, Manufacturer's name, and identifying number):														
22	Pamarke	O A LENGT	TU- 19	2 11 M	ODEL: G	YD 060 P				***				72444	
	22. Remarks O.A. LENGTH: 18.11 MODEL: GXD-060-P														
	SUPERCHANGER TO CARRY: ETHYLENE GLYCOL / PRODUCED WATER PLATES: SR265-GR1 OLIANTITY: 115 PLATE THK: 0.0276														
	PLATES: SB265-GR1 QUANTITY: 115 PLATE THK.: 0.0276 SEAL PLATES: SB265-GR2 #19: NOZZLES - 150# STUDDED PORT PER ASME B16.5 2009														
	02,12,12											-			
	We certify	that the state	ements	s in this ren	ort are co		IFICATE O				orkmanship of this vess	el			
	2000 TO 12 TO 200					ESSEL CODE, Secti			0011011101110						
							,,	Expires			12/14/15				
	U Certificate of Authorization Number 8698 Expires 12/14/15														
	Date 5/29/13 Name TRANTER, INC. Signed														
	(Manufacturer) (Representative)														
Г						CERT	TIFICATE C	OF SHOP	INSPECT	ON	8				
	I, the unde	rsigned, hold	ling a v	valid comm	ission issu						rs and/or the State or F	rovince			
	of TEXAS			and em	ployed by	OneCIS INSURANC	E COMPAN	Υ		of LY	'NN,MA				
	have inspe	cted the pres	ssure v	vessel desc	cribed in th	nis Manufacturer's Da	ta Report on)	5-2	79-1	13		Stellward - in	, and	
	state that,	to the best of	f my k	nowledge a	and belief,	the Manufacturer has	constructed	d this press	ure vessel	in accorda	ance with ASME BOILE	R AND			
	PRESSUR	E VESSEL C	CODE,	Section VI	III, Divisio	n 1. By signing this ce	ertificate neit	her the Inst	pector nor	his/her en	nployer makes any war	ranty, expre	ssed		
	200 100 100 100 100 100 100 100 100 100										spector nor his/her em	ployer shall			
					injyry or i	property damage or a	loss of any	kind arising	from or co	onnected v	with this inspection.	1			
	Date 5	19-13	S Sig	gned _	an	04/2		Con	nmissions	NB	1472AN	<i>/</i> -			
_)+A				(Authorized Inspecto	or)			[Nation	al Board (incl. endorse	ments), Stat	e, Province	e, and Number]	
						CERTIFICAT						21 G			
	2 West Distriction										vessel conforms with		nents		
	of ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division 1. U Certificate of Authorization Number NA Expires .														
	Date Name Signed														
(Assembler) (Representative)															
Г	1111				112-12/04	CERTIFICA	TE OF FIFI	D ASSEM	ARI Y INS	PECTIO	N				
	I, the unde	rsigned, hold	ling a	valid comm	ission issu						rs and/or the State or F	Province			
	of NA			and er	mployed b	y -									
	of -						, have com	pared the s	tatements	in this Ma	nufacturer's Data Repo	ort with the o	described p	ressure vessel	
	and state that parts referred to as data items - , not included in the certificate of shop inspection, have been													ion, have been	
	inspected by me and to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance														
	with the ASME BOILER AND PRESSURE VESSEL CODE, Section VIII, Division1. The described vessel was inspected and subjected to a														
	hydroetati	test of					By signing t	this certifica	te neither	the Inener	ctor nor his/her employ	er makes ar	ov warrant	expressed or	
	hydrostati				danastra d								., wananty	, anticoocu ui	
											ector nor his/her emplo	30			
		bie in andy n		5 P. S2891	rsonal inj	ury or property damag	ge or a loss (ii or conne	ected with this inspection	on.			
	Date	SANTAS CONC		gned		(Authorized Inspecto	orl		nmissions	Mation	al Board (incl. endorse	mente\ Stat	o Province	and Number	
						MULLIONIZEU INSPECIO	UI J			HAMIOU	ai Duaiu (IIIU), enuuisel	memor, oldi	o, r tovince	, and Municell	