	16	As Required by the Provisions of the ASMF Code Rules, Section VIII, Division 1 (4)/3/
711T	13	Manufactured by Dominion Bridge Cornany Ltd. Elmonton, Alberta.  Manufactured for Turbo Resources Ltd.
	2.	Manufactured for Turbo Resources Ltd. (Name and address of purchaser)
	3.	Location of Installation Turbo - Balzac - Alberta
	4.	Type Horizental Butane Vessel No. A5981-A Name and address D.9537.2 #1-A5881  (Horiz (XXX tank) (Mfg. s Serial No.) (CRN) (Drawing)
	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 1050 and A Identia to Dec. 80 and Code Case no
		Special service net (IG. 120(d)

Manufacturers' Partial Data Peports properly identified and signed by Commissioned Inspectors have been furnished for the following items of the report:

[Name of part, item number, mfgr's name and identifying stamp]

tems 6-11 inc. to be curreleted for single wall vessels, jackets of jacketed vessels, or shells of heat exchangers

6. Shell Material S.-916-70 Nominal Thickness 12 mm & Corresion Allowance 963 in. (1.5mm)

Diam. 3200<sup>mm</sup> **\*\*** Length 38600<sup>mm</sup> **\*\*** T/T **\*\*** (10'5-15/16") CERTIFICATE OF 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 Code for Pressure Vessels, Section VIII, Divisign 5.

Date 12/8/ Signed Dominion Bridge Co. Ltd. by Dec. 31 Persentative "U" Certificate of Authorization No.

## CERTIFICATE OF SHOP INSPECTION

Vessel made by Dominion Eridge Co. Ltd. at Edmonton, Alberta

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the Sisis or Province of Alberta and employed by Province

of Alberta have inspected the pressure vessel described in this Manufacturers' Data Report on 19 81 and state that, to the best of my knowledge and belief, the Manufacturer has constructed this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

By signing this (a tiffe to neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in the Manufacturers' Data Report. Furthermore, neither the Inspector nor his 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

Date B Signed B (Inspector)

Commissions \_\_\_\_\_

(Nat'l Board, State, Province and No.)

## CERTIFICATE OF COMPLIANCE FOR FIELD WORK

We certify that the statements made in this report are correct and that all details of lesign, material, construction, and workmanship of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division 1.

(Representative)

"U" Certificate of Authorization No.

expires ...

..... 19

## CERTIFICATE CF FIELD ASSEMBLY INSPECTION

I, the undersigned, notding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and/or the State or Province of \_\_\_\_\_\_\_ and employed by \_\_\_\_\_\_\_ of \_\_\_\_\_ have compared the statements in this Manufacturers' Data Report with the

described pressure vessel and state that parts referred to as data items ..., not included in the certificate of shop inspection, have been inspected by me and that, to the best of my knowledge and belief, the Manufacturer has constructed and assembled this pressure vessel in accordance with ASME Code, Section VIII, Division 1.

The described vessel was inspected and subjected to a hydrostatic test of \_\_\_\_\_ psi

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the pressure vessel described in this Manufacturers' Data Report. Furthermore, neither the Inspector nor his employer shall be fiable in any manner for any personal injury or property damage or a less of any kind arising from or connected with this inspection.

Date Signed

(Authorized Inspector)

Commissions

(Nat'l Braid, State, Province and No.)

A131203

7 5	eams i ongitu <b>dinal</b>	R.W. Welden, Dat., Sngt. Ling	Bunt. A	T Spot	Funz Efficier	, <sub>~</sub> , 55 %	
Н	LT. Temp	Time	Girth .	D.E.W.	b!, Sng!, Lap Butt)	*	. 4
	T. Spot Famial or Fully Heads: (a) Material	PADTO- 10	13.	Material Sa5	16-70		./
-	Location (Top. Bottom, Ends)	(Spec. No., Grade) Minimum Thickness	Corrosion Allowance	Crown Radius	(Spec. No., Grade Knuckte Padius	Elliptical Ratio	
	, Ends	•5"L12.7	nm).063."(1	.5mm)		2:1	
	(b) EBCS Conical	5 <b>(12.7</b> ) Hemispherical Radius		.5mm) Flat ameter	Side to Pres (Convex or Co		
	Apex Angle				Concave		
	(a)(b)				Concave		
	il removable, holts used (des			(Material, Spec. N	lo., Gr., Sire, No.)	allow and the second	
	Type of Jacket	cribe as ogee & weld, bar,	Proof	rest	ns ———		
1. ( tem	If bolted, describe or sketch. Constructed for max. allowat less than -20 F)	ble working pressure  F. Hydrosta  I for tube sections	100 psi	at max temp. combination test	1000 F M	temp (when psi.	(Horiz)
2.	Tubesheets: Stationary - Ma	iterial(Spe	c. No. Gr.)	Diam	(Subject to press	ure)	
	Nominal Thickness				nent (Welde	d, Bolled)	
	Floating—Material						
	Nominal Thickness			, <b> in</b> .			
3.	Tubes: Material (Sp	Dec. Ivo., Gr.)	D	in. Nominal Th	ickness	in. or gaug <del>e</del>	
	Number	Tvpe	(Straight or "U")				
iten 14	Shell. Material Spec.	No., Gr.) Nominal	Thickness 💴 .	. in. Con	osion Allowance	in.	
15.	Seams: Longitudinal		1. 6.34 ····	R.T.	er Cidi	епсу%	
	H.T. Temp	F Time	Girth	nopor	Dbl Snot Lee Buttl		
	R.T. ISpot, Partial or Fr				DD., D., B., COP. CO.,		
16.	Heads: (a) Material	uni	(	b) Material	(Spec. No., G	rade)	
	Location (Top. Bottom, Ends)	Minimum	Corrosion Allowance	Crown Radius	Knuckle Radius	Elliptical Rano	•
	(a)						
	Conical Apex Angle	Hemispherica Radius	<b>1</b>	Flat Diameter	Side to Pr (Convex or		
	(a)			- 35:			
	(b)		.1				
17.	If removable, botts used (do Constructed for max, allow less than -20 F)	able working pressure	p neumatic, or comi	si at max temp	No. Gr., Size, No.) F. I		
18.	If removable, bolts used (de Constructed for max, allow	able working pressure	neumatic, or comi	si at max temp. conation test press	Location By	thers	
18.	If removable, bolts used (de. Constructed for max. allow less than -20 F)	able working pressure	neumatic, or comi	si at max temp.  Dination test press  Nomina	Location By C	thers	
18.	If removable, bolts used (de Constructed for max, allow less than -20 F)	able working pressure F. Hydrostatic, pred for all vessels when ther Diam. Number or Size	poeumatic, or comi e applicable Size Type Mate	si at max temp.  pination test press  Nomina  Thicknes	Location By C	Dthers	
18.	If removable, bolts used (de Constructed for max, allow less than -20 F)	able working pressure F. Hydrostatic, pred for all vessels when ther Diam. Number or Size	neumatic, or comice applicable Size Type Mate	si at max temp.  pination test press rial Nomina Thicknes	Location By C	thers  Anached	
18. 19	If removable, bolts used (de Constructed for max, allow less than -20 F)	able working pressure F. Hydrostatic, pred for all vessels when the prediction of Size  Various	neumatic, or comice applicable Size Type Mate	si at max temp.  pination test press rial Nomins rial Thickner ring #1-A5	Location By  Reinforcements Material	Diners  How Attached	
18. 19	If removable, bolts used (do Constructed for max, allow less than -20 F)	able working pressure F. Hydrostatic, pred for all vessels when the product of th	peneumatic, or comice applicable Size  Type Mate See Draw	si at max temp.  Sination test press  Nomina Thicknes  ring #1-A5	Location By C  Reinforcements Material	Diners  How Attached	
18. 19	If removable, bolts used (de Constructed for max, allow less than -20 F)	able working pressure F. Hydrostatic, pred for all vessels when the property of the property of the pressure o	procumatic, or comice applicable Size Type Mate See Draw	is at max temp.  I wastion  I wastion  Location  Location  Location  Location	Location By Control By	Diners  How Attached	
18.	If removable, bolts used (de Constructed for max. allow less than -20 F)  Items below to be completed. Safety Valve Outlets: Num. Nozzles:  Purpose (Inlet, Outlet, Drain)  Inspection Openings: Manholes No. Handholes No.	able working pressure F. Hydrostatic, pred for all vessels when there are provided by the state of the state	reumatic, or comice applicable Size Type Mate See Draw 20"	is at max temp.  Somation test press  Thickness  Ting #1-A5  Lucation Fe	Location By Cost Material  8881  ead & Shell  Saidles	Dthers  How Anached	
18.	If removable, bolts used (de. Constructed for max, allow less than -20 F)  Items below to be complet. Safety Valve Outlets: Num. Nozzles:  Purpose (Inlet, Outlet, Drain)  Inspection Openings: Manholes No. Handholes No. Threaded No. (Yes of the construction)	able working pressure F. Hydrostatic, pred for all vessels when there are provided by the state of the state	recumatic, or comice applicable Size Type Mate See Draw 20"	Nomination test press ring #1-A5 location location location	Location By Cost Material  8881  ead & Shell  Saidles	psi. Others  How Anached	

F. I U-2 MANUFACTURERS' PARTIAL DA EPORT
A part of a Pressure Vessel Fabricated by One Manufacturer for Another Manufacturer
As Required by the Provisions of the ASME Code Rules. Section VIII, Division 1

						<del></del>
(a) M	anufactured by C E 1	lacpherson	Co. Div. of TI	W Industries I	td., 468 Rid	leau St., Kingsto
(b) M	anufactured by <u>C E N</u> anufactured for <u>Domi</u>	nion Bridg	e Co. Ltd., 803	- 24th Avenue	S. E., Calg	ary, Alberta On
		34133-	80-188````189`` T9	0 8 191		V 0 11 1981
3. (% (	nufacturer's Serial No. c Drawing Prepared by Description of Part Insp					
(b)	Description of Part Insp	ected				
i. The	chemical and physical	properties of al	I parts meet the requir	rements of material	specifications of th	ne ASME Boiler and  1977
	ssure Vessel Code. The				ection viii, Division	(Year)
and	Addenda through	Jan 30/81 (Date)	and Code Case No. —			
5. Spe	cial Service per UG-120 tweld Hest Treatment:	(d)	C T;	ma		
tome i	tweld Hest Treatment; 7-12 incl. to be complete	remperature	I vessels, jackets of jaci	keted vessels, or she	lls of heat exchang	ers
7. She	ill: Material		Nominal	Thickness	in. Corrosion allo	wancein.
	m ft	(Spec. No., Grade	1			
Ula Sos	ms: Longitudinal	Welded Bu	tt R.T.	บพ52	Ef	ficiency 80 %
o. 066	ans. Emgredamer	(Welded, Obl., Sn.	ıl, Lap. Butti			
н.т	. Temp F				ol., Sngl., Lap. Butt)	
R.T	(Spot, Partial, or Ful	No. of Co	urses			
9. Hea	nds (a) MaterialA511			(b) Material		
		(Spec. No	., Grade)			
	Location	Minimum	Corrosion Allowance	Crown Radius	Knuckie Radius	Elliptica. Ratio
,	(Top, Bottom, Ends)	Thick ess	Allowance	7,44,43		
(a)		50				2:1
(b)						
	Conical		demispherical	Fiat		de to Pressure
	Apex Angle		Radius	Diameter	(Con	vex or Concave)
(a)						
(b)		L L		1		
If rem	ovable, bolts used (des	cribe other faste	nings)	(Material, Spec	No., Gr., Size, No.)	
10. T	ype of Jacket			Proof Test		
11. Ja	acket Closure	cribe us ogee & w	If bar,	, give aimensions 🗀		
	tres bolted, describe or ske	_	a, var, etc.,			
12. C	onstructed for max. all	owable working	pressure	psi at max. to	emp.	F Min. temp.
(1	when less than -20 F) -	F.	Hydrostatic, pneumatic,	, or combination test	pressure	== psi.
Items	13 and 14 to be compl	eted for tube sec	tions			
13. T	ubesheets: Stationary -	- Material	(Spec. No. Gr.:	Diam	(Subject to	pressure)
1	lominal Thickness	Corros	ion Allowance	in. Attachment	(Welde	d. Bolted)
	loating — Material				•	
	Nominal Thickness					
14. 7	Attachment		O.D.	in. Non	ninal Thickness	in. or gauge
	Number ======	(Spec. No.,	pe			!
					heat eychanoase	
Item:	s <i>15-18 incl. to be comp</i> Shell: Material ————	tetea "er inner Ci	Nominal Thi	ckness	in. Corrosion Allow	vance in.
16. 5	Seams: Longitudinal		R.T.			fficiency 95
, , , ,	Diamft Seams: Longitudinal H.T. TempF	(Welded, Dbl. S	ingi, Lap, Butt)	(Spot or F	·uii)	No courses
	M L. 16MD	I \$1110	tiAlalata	Dal Soul Lan Butt	(Spot, Partial or Full	,

A131403 SECTION VIII - DIVISION I VQ 17. Heads: (a) Material . (b) Material . Gradel Jes. No., Grade) Knuckle Elliptical Location Minimum Corrosion Crown (Top. Bottom, Ends) Allowance Thickness Radius Radius Ratio .50 .... 2:1 ..... (a) (b) Hemispherical ∃fat Side to Pressure Conical Diameter (Convex or Concave) Apex Angle Radius \_\_\_\_\_ (a) (6) if withovable, bolts used (describe other fastenings) (Material, Spec. No., Gr., Size, No.) 18 Constructed for max, allowable working pressure \_\_\_\_\_ psi at max, temp. \_\_\_\_ F. Min. temp. (when less than -20 F) F. Hydrostatic, pneumatic, or combination test pressure \_\_\_\_\_psi. Items below to be completed for all vessels where applicable 19 Safety Valve Outlets: Number 20. lozzies: Reinforcement Nominal How Purposa Diam. (Inlet, Outlet, Drain) Number or Siza Type Material **Thickness** Material Attached 21. Inspection Openings: Manholes No. Size . Handholes No. Location Threaded No. 22. Supports: Skirt (No.) (Dascribe) Attached . (Where and how) 23. Remarks: . CERTIFICATE OF COMPLIANCE We certify that the statements made in this report are correct and that all details of material, construction, and workmanshit of this vessel conform to the ASME Code for Pressure Vessels, Section VIII, Division Division of TIW Industryies Signed <u>C E Macpherson Co.</u>
(Manufacturer) 15,927 . 19 <u>83</u> "U" Certificate of Authorization No. \_ CERTIFICATE OF SHOP INSPECTION I, the undersigned, holding a valid commission issued by the National 80. c of Boiler and Pressure Vessel Inspectors Ontario and employed by MCCR and/or the State or Province of .... The Province of Ontario have inspected the part of a pressure vessel described in this Manufacturer's Partial Data Report on ごしんれん \_\_\_\_ 19 . 17 , and state that, to the best of my knowledge and basief, the Manufacturer has constructed this part in accordance with the ASME Boiler and Pressure Vessel Code, Section VIII, Division 1. By signing this certificate naither the Inspector nor his employer makes any warranty, expressed or implied, concerning the part described in this Manufacturers' Partial Data Report. Furthermore, neither the Inspector nor his 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 inapection. Commissions (Natl. Board, State Province and No.)