

BOILERS AND PRESSURE VESSELS REPAIR AND ALTERATION

REPORT

OWNER FOLLIP NO .

(A)#: <u>218010</u>

Name and	d Address of Organia	zation doing [Oppoint Alt-	protion /		rtial 📗 Final 🖸	
ו•		500 Dec			nPLETE D.		
	29 Acme,	AB. Tom	OAO	AQP No.	& Expiry Date <u>21</u>	059 July	06-2
Location	of Installation /	6-30-31-	24 W4				
Name of	Owner FOG	RESOUR	CLES	CANADA	INC.		
Address	Box 1479	PRUM	HELLER	AB		-	
Boiler/Pro	essure Vessel Descr	ription Z	restu	ı	CRN	482650.	2
	turer's Name	ABAX			Serial No.	UW1208	3
Design C	onditions:						
a) Vesse	el/Shellside/Boiler: Ma	ax Allowable W	orking Pr	ess. <u>50</u>	Min/Max Desig	n Temp 200 1	
b) Jacke	et/Tubeside: Ma	ax Allowable W	orking Pr	ess <u>5ひ</u>	Min/Max Desig	n Temp <u>ביסס ו</u>	
Descripti	on of defects (location	on and types o	f deteriora	ation that result	ed in the repair/alter	ation).	
	Pithing in	منطبه	- 4	tun 1	enter line	1	
	many M	maca	0.21	Cop. of	queste neve	1	
ASME Co	de Edition and Adde	enda used for	work: ASI	MF Sect	Year Ad	Idenda	
needed. Note 1: F	Repair/Alteration Pro	ocedure to be	e accepte	ed by ABSA S	CO prior to start of	of work.	
Note 1: F	Repair/Alteration Pro	11740					
Note 1: F		11740					
Note 1: F		11740					
Note 1: F		11740					
Note 1: F		1 treates	oui	Pita			
Note 1: F	up side of ding overlay.	1 treates	oui	Pita			Dian
Note 1: F	List any material use	d in repair/alte	eration and	Pita	erial welded on:		
Material -	List any material use	d in repair/alte	eration and	d any base mat	erial welded on:		
Material - Item Shell/Drum Tubeshe	List any material use	d in repair/alte	eration and	d any base mat	erial welded on:		
Material - Item Shell/Drum Tubeshe Nozzles	List any material use Mat'l Spec.	ed in repair/alte	eration and Diam F	d any base mat	erial welded on: Mat'l Spec.	Thick/Sch	
Material - Item Shell/Drum Tubeshe Nozzles Welding	List any material use Mat'l Spec. Procedure – Alberta I	treate thick/sch Registration N	Pration and F	Item Heads/ Ends Flanges/Fitting	erial welded on: Mat'l Spec. WPS Numbers us	Thick/Sch Class Sed: ρω3	
Material - Item Shell/Drum Tubeshe Nozzles Welding 0. Heat Trea	List any material use Mat'l Spec. Procedure - Alberta latment: Bake Out (Temp	ed in repair/alte Thick/sch Registration N	Pration and H	Item Heads/ Ends Flanges/Fitting P-1672, 2 Preheat Temp	erial welded on: Mat'l Spec.	Thick/Sch Class Sed: ρω3	
Material - Item Shell/Drum Tubeshe Nozzles Welding 0. Heat Trea	List any material use Mat'l Spec. Procedure – Alberta I	treated in repair/alted Thick/Sch Registration N p./Time) (Specify type	Pration and Diam F umber W hr and exter	d any base mat Item Heads/ Ends Tubes Flanges/Fitting P-1672, 2 Preheat Temp_ nt).	erial welded on: Mat'l Spec. WPS Numbers us	Thick/Sch Class Sed: ρω3	
Material - Item Shell/Drum Tubeshe Nozzles Welding 0. Heat Trea	List any material use Mat'l Spec. Procedure - Alberta latment: Bake Out (Temp	treated in repair/alted Thick/Sch Registration N p./Time) (Specify type	Pration and Diam F umber W hr and exter	d any base mat Item Heads/ Ends Tubes Flanges/Fitting P-1672, 2 Preheat Temp_ nt).	erial welded on: Mat'l Spec. WPS Numbers us	Thick/Sch Class Sed: ρω3	
Material - Item Shell/Drum Tubeshe Nozzles Welding 1. Non Desi	List any material use Mat'l Spec. Procedure - Alberta latment: Bake Out (Temp	treated in repair/alter Thick/sch Registration N p./Time) (Specify type the company of	Diam Diam Fumber Will And exter	Item Item Item Item Item Item Item Item	erial welded on: Mat'l Spec. WPS Numbers us 50°C Post Weld HT (Thick/Sch Class Sed: りい3 Temp./Time)	Dian

4435631

EDG TWINING

p. 1 PAGE 02

AB-40 (Side B) 2005/01

		(A) # 21801	OWNER EQUIP. NO
12. 1	a) Hydrostatic	:el/Boiler/Shellside	Tubeside/Jacket
	Welded Replacement Parts: Att: properly identified and signed by A supplied by others).	:hed are Manufacturer's ithorized Inspectors for t	Partial Data Reports or Repair/Alteration Reports he following items of this report: (Welded parts
4.	Responsibility Owner/Client. Ide	ntify below items that the	owner/client has assumed responsibility for. Note (2)
	1.00		cedure: c) Material Control at Treatment g) Pressure Test
			ram (AQP), for the scope of work, to assume responsibility for
15	REMARKS:		
16.	ı	ERTIFICATE OF CO	MPLIANCE
Ne his	certify that the statements made in repair/alteration conform to the re-	this Report are correct a uirements of the Alberta	nd that all design, material, construction and workmanship or Safety Codes Act and Regulations.
	a) For all items except for ite (OMPLETE OLLF) (Repert/Ameretion Organization Name)	is identified in 14: IELD SERVICES	b) For items identified in 14 only: (Owner/Client Organization Name)
	(AQP Number & Expiry Date)	2409/05	(AQP Number & Expiry Date)
	J'NANCY PIEP	<u> </u>	(Signature & Data) (Print Nama)
17.	(Print Name) DATE WORK WAS COMPLETED:	May 11/05	€-sus versa)
18.		ERTIFICATE OF INS	PECTION
ha in a	ve inspected the repairs and/or all/ ccordance with the Safety Codes .t	rations described in this at and Regulations.	report. To the best of my knowledge this work has been done
	Owner-User Inspection Certification (Required when Owner-User Inspetheir ABSA Authorized Owner-Use	cts the work under	 b) ABSA Safety Codes Officer Certification (when work is inspected by ABSA).
	JULY_07, 2000 Owy67-User AGP# & Exply!		I LA MILL
	Owner User In-Service Inspector	ignature & Date	ABSA SCO Signature & Date
	JEFF CAME	BEE	6res Sullo
	Owner-User In-Bervice Inspector Nerr :	140	Print Name/
	Owner-User In-Service Inspector A.I	eta Cart #	

FORM U- MANUFACTURER'S DATA REPORT FOR I SSURE VESSELS (Alternative form for Single Chamber, Completely Shop-Fatricated Vessels Only) As Required by the Provisions of the ASME Code Rules, Section VIII, Division 1

A 218010 00-17/84 Deg

1. Manufactured	and certified by	ABAX EN	RGY SER	VICES LTD	. 5929 6th		. CALGAI	RY, AB T	2K 5R5
2. Manufactured	for	BUMPER 1	DEVELOPM	ENT CORP.	300 - 52 (Name and actives of po		S.W. CA	LGARY, ALI	3ERTA
3. Location of in	stallation	LSD 16-	-30-31-2	4 (U4M	(Name and addres	n)	4.		
4. Type VER	T. TANK	1390	erul No.)	F-1446.	2 1390B	501	(Nat)	t. Bd. No.)	10/84 (Year built)
5. The chemical	and ohysical	properties of a	all parts med	et the require	ments of mate	riel specificat	ions of the A	SME BOILER	AND PRESSURE
		construction, and						1983 Year	
to_WINTE					Code Case Nos			Special Service on all M	mada:
	Addenda (I	Datel	6.4mm			3035mm 9' - 11.	+ 1)	Special Service pe 749	84'7mm
6. Shell: _SA:	-516-70 Meti. (Spec. No.	, Gradet	. 250" Nord. This. (s		NIL	9 11. Diem.	D. (II. & m.)	Leng	th (overall) (It. & m.)
7. Seams: DBL	BUTT WELT	DED SPOT		85		DBL	BUTT WEL	DED SP	OT 3_
/. Seams:	Long (Welded, Ob) . Single, Lap, Buttl	R.T (Spot or	Full) (emp. (F) Time	(hr) G	orth (Y'rided, Dbl.,	R.T. (Spot, F or Full	
8. Heads: (a) M	0.1	516-70			(b. Math	SA-51	3mgt. 1-90, Burt)	ec. No., Gradel	
		(Spec	. No., Grade)	 	·		<u> </u>		r :
Location (Top. Bottom, Ends)	Maumum Trackness	Corrosion Aliowantin	Crown Radius	Knuckie Redne	Ellqr at Rar	Constal Apex Angle	Heavispherical Hadors	Flat Diameter	Side to Pressure (Convex or Concave)
tal TOP	8.48mm	NIL			2:1				CONCAVE
BOTTOM	1.333"	INIL I			1_2:11				L_CONCAVE
If removable, b	olts used (descr	ibe other fastenin	g\$}		Citation	Mati., Spec. No.,	Cit , Size, No.)		
9. MAWP 345	kPa			50 psi	at max, temp,	93°C			207 .
	hen less than -2	20°F)		°F	. Hydro., pneu.,	or comb, test	Fressure 518	<u>kPa</u>	75 pr
10. Nozzles, inspe									
Purpose (Intel Outlet Drain)		am Type Size		Matt	7-111		forcement Mati	How Attached	Location
CRUDE INLET	1 114	. 3mm RF(UN		06-B	6mm	NONE		WELDED	SHELL
DIL OUTLET		9mm RFWN		06-B	5.5mm	NONE		WELDED	SHELL
NATER OUT		.9mm RFWN		06-B	5.5mm 5.5mm	NONE		MELDED	BTN HEAD
DRAIN		.3mm RFWN	SA-1	06-B	BACE DIA	10	MEIT	ED TO BTA	
11. Supports: Sk	irt YES	_ Lugs(Ne.i	l.egs	(No.)	(Dascrit		ttached WELV	(Vithers of	
						need Intenseto	es have been fu	raished for the	following Items of
	nufacturer's Par	rtial Data Reports	properly ide	ntineo aca sigr •	ied by Commissi	Dileo Inspecto	13 1,848 50077 10		following Items of
the report:	VOLUM	Æ: 70.62	2	erne of part, Hem numb	er, fiftigt's marke and ident	ifyitig staingi)			
	TREAT								
	IKLAI	LN	CED	TIEICATE OF	SHOP COMPLI	ANCE			
	. the statement	e made in this re					onstruction, and	d workmanship	of this vessel con-
form to the Al	SME Code for P	ressure Vessels, S _ Co. name ABA	ection VIII. [X ENERG!	SERVICE	Certificate of A	utharization N	10.14941 Karl-Hi	South DEC	2.28 , 19 84
Date_1400			- AF	RTIFICATE O	F SHOP INSPEC	TION CALC		(Represendine)	
Vessel constru	cred by	X ENERGY SE						and/or the Co	era or Province of
I, the undersi			on issued by and employed	IAK	OUR Soler a	nd Pressure V	essei Inspectors	,	ate or Province of
have inspected	the componen	t described in this	s Manufacture	r's Data Repor	t on OCF		, 19.25 7	•	hat, to the best of
my knowledg	e and belief, th	ne Manufacturer	has construct	ted this pressur	re vessel in accor	dance with A	SMt. Code, Sec	ure vessel deser	sion 1. By signing
this cortificate	e neither the In	spector nor his e	mployer mak	es any warrant	y, expressed or	implied, conci	uer for any per	sonal injury or	ibed in this Manu- property damage
		hermore, neither rom or connected			ikei an ii na iian	or in milk mon		E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-E-	
1 1000	-17/84	Signed	55 e	us_	c	minissions	(grade Barrasa	nel endorvements), Stat-	a Pros and No.
Date C	1-1-1-	2131144	IAuth	Direct (urbector)			;Nat 1 Board to	inci chourycmentsi, 51al-	1, 7 OF GIVE 198.1

MANUFACTURERS' DATA REPORT SUPPLEMENTARY SHEET

36 J	CERTIFIED &
1.	Manufactured by ABAX ENERGY SERVICES LTD. 5929 Ath St. N.E. CALGARY, AB. T2K5R (Same and Address of Manufacturer)
2.	Manufactured for BUMPER DEVELOPMENT CORP. 300 - 5th Avenue S.W. CALGARY, AB. (Name and Address of Purchaser)
3.	Location of Installation LSD 16-30-31-24 W4M (Name and Address)
4.	Type VERT. TANK Vessel No. 1390 F-1446.2 13903 Horiz. Verc. Tank, etc. Hfgr. Secial CRN Dug
*	Year Built 10/84

PURPOSE	NO.	DIAM. OR SIZE	TYPE	HATL	NOH. THICK	REINFORCEMENT HATL	HOW	LOCATION
т1	1	26.7mm	CPLG	SA-105	N.A.	NONE	WELDED	SHELL
тс	1	33.4mm	CPLG	SA-105	N.A.	NONE	WELDED	SHELL
HTSD	1	33.4mm	CPLG	SA-105	N.A.	NONE	WELDED	SHELL
LG	4	26.7mm	CPLG	SA-105	N.A.	NONE	WELDED	SHELL
GAS OUT PSV	1	60.3mm	RFWN	SA-106-B	5.5mm	NONE	WELDED	TOP HEAT
MANUAY	4	457.2mm	FF	SA-106-B	9.5mm	SA-516-70	WELDED	SHELL
		1			6 42 50 e			

Dace .	Oct. 17/84		SERVICES LTD.	Signed Ka	A. H.	Johns.
	Oct 17/84 rized Inspector's	Signature	DE Soars	Commissions	Province	& Number

(403) 947 - 2278 Alberta Boilers Safety Association

#200, 4208 - 97 Street Edmonton, Alberta, Canada T6E 5Z9

Tel: (780) 437-9100 / Fax: (780) 437-7787

May 30, 2003

Bryan Piepke . COMPLETE OILFIELD SERVICES LTD **BOX 29** ACME, AB TOM 0A0

Dear Bryan Piepke.

The welding procedures received on May 15, 2003 are accepted for registration as follows:

Reg. No.;

WP-1672.2

Accepted on: May 30, 2003

Tracking No.: 2003-03365

Reg Type:

New Design

Spec. No. :

PW-3

Registered under owner / manufacturer name COMPLETE OILFIELD SERVICES LTD

Please note the acceptance of the registration does not allow the use of this welding procedure in the construction, modification, or repair of any boiler, pressure vessel, pressure piping system or fitting in Alberta unless the contractor/manufacturer has registered a Quality Control system for such work with

Welding procedures, which specify impact testing, have been accepted in accordance with A.S.M.E. Section IX only. Other A.S.M.E. Code Sections may have additional requirements respecting impact

An involce covering survey and registration fees will be forwarded from our Revenue Accounts.

Enclosed are stamped prints for your reference.

Sincerely,

ROSEBERG, BOB, P. Eng.

Design Survey Engineer

WELDING PROCEDURE SPECIFIC.	ATION NO.:	PW-3
WELDING PROCEDURE QUALIFICATION	ATION RECORD NO.	(S): PQ2
	QUALIFIED FOR	
Base Metal (Typical): P1 to P1 (Process(es): SMAW Position: ALL POSIT	IONS Dian	A 105, SA 516 Gr. 70, etc.) d Types: GROOVE & FILLET neter: ALL DIAMETERS
<u> </u>	11, E7018, E7018-1	
BASE METAL CONDITIONS & THICK		LIFIED:
STANDARD APPLICATIONS AS WELDE ASME B31.1 ASME B31.3 ASME SECT. VIII, DIV.1	1.6 to 19.1 mm (0.06:	3 to 0.750 in.) inclusive 3 to 0.750 in.) inclusive 3 to 0.750 in.) inclusive
ALBERTA BOILERS SAFETY ASSOCIATION PROVINCE OF ALBERTA SAFETY CODES ACT WELDING PROCEDURE Reg. No. WP. 1672.2 Spec No. PW-3 Weld Process SMAW Matl. Gr. P No. 1 to P No. 1 Elec. Gr. F No. 3+4 A No. 1 Th. Qual. For 19.1 M.M. PWHT NO. Yr. 3 Mo. 95 Day 30. Signed R. ROSSBERG, P.ENG. WELDING SPECIALIST		
PROVINCIAL REGISTRATION		

QW-482 WELDING PROCEDURE SPECIFICATION (WPS)

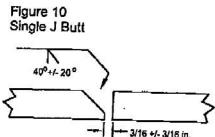
Welding Procedu	ITA Specificani	Complete Oilfield Servin No. PW-3 PQ2 SMAW	ices Ltd.	
Supporting POP	No (e)	n NoPW-3	Date	May 8, 2003
Welding Process	(00)	PQ2	· ·	THE TAIL ENGL
14 5.0mg 1 100e35	(es)	SMAW_	Type(s)	Manual
	r			
JOINTS (QW-40	12)	•		
Joint Design	All A Char	A FII		
	M/horo ini-	groove & fillet, reference cor	struction drawing	for joint detail.
Root Opening	As por atte	groove & tillet, reference con It details are not specified, seched typical groove designs or without	ee figures 1 to 18	attached.
Backing	F3: With c	scried typical groove designs	see figures 1 to	15 attached.
Retainers	Not require	or without F4; With	metal or weld me	etal backing
	- Liot rodolle	<u></u>		
BASE METALS P-Number Thickness Range:	P1 Groove	To P-Nui	mber <u>P1</u>	
=	Fillet	All base metal thicknesse	0.750 In.) Inclusi	ve
Pipe Diameter Ran	ges: Groo	ove All diameters All diameters	<u>s</u>	
	C:11_4		* ************************************	
Deposited Weld Me	tai (Per Pass)	All diameters 12.7 mm (0.500 in) mayley as	
FILLER METALS	(OW-404)			
Specification No. (S	FΔ\	QEA E A		
ATTO INU. (Class)		EGO10 EGO14	SFA 5.1	
			<u>E7018, E701</u>	8-1
		Δ1	F4	
		2/22 ++ 5/24 +		
Deposited Weld Met	al Thickness R	3/32 to 5/32 in. inclusive	3/32 to 1/4 in.	inclusive
2100A6		10 mm (0 400 :)		
illet		All fillet sizes	14.3 mm (0.56	52 in.) max.
\$80 D		7 III TILICT SIZES	All fillet sizes	
OSITION (QW-40				
Osition of Groove	ə) *"	***		
Veld Progression	All pos	ritions Position of	Fillet All posi	tions
10 1 10g/ CasiOff	F3: V6	ertical up or vertical down	F4: Ve	rtical up
REHEAT (QW-406	e)			
reheat Temperature	(Minimum)			
terpass Temperature	(Maylours)	10°C (50°F) 371°C (700°F)		
eheat Maintenance	10°C ==:4-	371°C (700°F)		
- NAME IN COLUMNICE IN THE	_ TO C DITOR TO	Weldling Probest mainteen	nce is not require	d if welding is
			ing unless requir	ed by the
-	code of consti	ruction,		

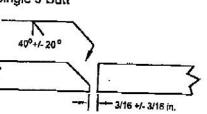
			WPS NOPW-3
POST WELD HEAT TREATMITTEMPERATURE Range Nor	ENT (QW-407) le	_ Time Range	N/A
ELECTRICAL CHARACTERIS Current <u>Direct</u> Amps <u>See Table #</u> Maximum Heat Input		Polarity Voits N/A	Reverse, electrode positive See Table #1
TECHNIQUE (QW-410) String or Weave Initial & Interpass Cleaning Method of Back Gouging Multiple or Single Pass Per Side Multiple or Single Electrodes Peening	Either Brushing, chipp Air carbon arc, Either Single Not permitted	oina or arindina	See Table #1 as required required

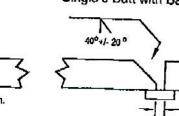
TABLE 1 - WELDING PARAMETERS

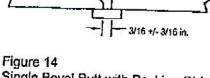
Process	Filler Metal	Diameter mm (in.)	Current Type & Polarity	Amperage Range	Voltage	Travel Speed
SMAW	E6010 / E6011	2.4 (3/32)			Range	mm/min. (i.p.m.
SMAW	E6010 / E6011		DCRP	50 - 100	18 - 28	38 - 300 (1.5 - 12
SMAW		3.2 (1/8)	DCRP	60 - 140	19 - 30	38 - 350 (1.5 - 14
5110 199	E6010 / E6011	4.0 (5/32)	DCRP	115 - 250	21 - 31	50 - 400 (2.0 - 16
SMAW	E7018 / E7018-1	2.4 (3/32)				700 (2.0 10
SMAW	E7018 / E7018-1	3.2 (1/8)	DCRP	60 - 110	18 - 24	38 - 300 (1.5 - 12
SMAW	E7018 / E7018-1	4.0 (5/32)	DCRP	90 - 150	19 - 26	38 - 350 (1.5 - 14
SMAW	E7018 / E7018-1	5.0 (3/16)	DCRP .	110 - 220	21 - 28	50 - 400 (2.0 - 16
SMAW	E7018 / E7018-1	5.5 (7/32)	DCRP .	160 - 320	22 - 30	75 - 500 (3.0 - 20
SMAW	E7018 / E7018-1	6.4 (1/4)		240 - 340 275 - 360	23 - 32	125 - 550 (5.0 - 22 125 - 550 (5.0 - 22

Note: Size of electrode, filler metal, number of passes, voltage, amperage, and travel speed will vary with position, joint thickness, joint type etc.









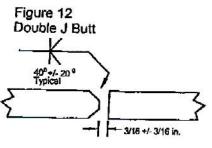


Figure 14 Single Bevel Butt with Backing Strip

Figure 15 Double Bevel Butt

Or as per the joint design on the approved construction drawing.

ure 13

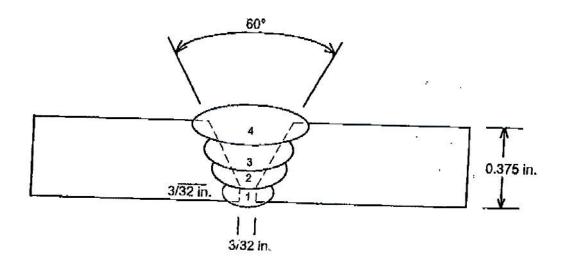
Single Bevel Butt

May. 9. 2005 12:25 PM Midfield Three Hills No. 0621 P. 12 D. 0. 0621 P. 0. 0621 P.

QW-483 WELDING PROCEDURE RECORD (PQR)

Procedure Qualification Rec PQR Revision(s)	Complete	Oilfield Condens to	
Procedure Qualification Rec	ord No. Pr	Olineid Services Ltd.	
PQR Revision(s)	Format undate, e	ditorial and comp	April 27, 1993
	formerly Pienke's	Welding Ltd., May 8, ertified by Laverne Pie	name change,
	(PQR originally of	ertified by Lavages Di-	2003
Welding Procedure Specifica	ation No. PV	V-3	pke, May 3, 1993)
Welding Process(es)	SMAW	Tue-(-)	
Welding Procedure Specification Welding Process(es)		Type(s)	Manual
JOINTS (QW-402)			
Туре	Buttioint slogle w	90 ((100)/0 +00 ++11	
		se groove, see next ba	age
BASE METALS (OW 400)			
BASE METALS (QW-403)			
P-No. SA 333	to SA 350	Type or Grade	Gr. 6 to Gr. LE2
Material SpecSA 333 P-NoP1	VoP1	Thickness	9.53 m.m (0.375 in)
Diameter 168.3 mm (6.6	25 in.) O.D.	Other	
		54—8	
FILLER METALS (QW-404)		
Specification No. (SFA)	QEA E 4		5 <u>4</u> .
AWS No. (Class)	E6010	SFA	5.1
Filler Metal F-No.			
i mer werdi 4-140'	Δ1		10-1
Size of Electrode	See attache	d alcalab	
eposited Weld Metal Thickness	2.4 mm (0.0)	Odin) 744	- /AVALT
	<u> </u>	7.14	mm (0.281 in.)
POSITION (QW-405)			
Position of Consum			
Position of Groove Weld Progression		<u>5G</u>	
Weld Progression		Upward	
		S-1-100-	
PREHEAT (QW-406)			
Preheat Temperature10)°C (50°F)	Internace Taras (A	
	100.17	_ interpass remp. (N	/lax.)232°C (450°F)
POSTWELD HEAT TOTAL			
POSTWELD HEAT TREATM	ENT (QW-407)		
Temperature No	ne	_ Time	N/A
		100000000000000000000000000000000000000	
ELECTRICAL CHARACTERI	STICS (OW. Ann)		
Current Direct	21120 (MAA108)		NO. 100 €00 00 00 PD.020
Amps See next p	1200	Rever	se, electrode positive
Heat Input	age	Volts See no	ext page
987 (1987 1987 1987 1987 1987 1987 1987 1987		N/A	-
TEALBRAIN			
TECHNIQUE (QW-410)			
String or Weave	Both	Travel Speed	See next page
Multiple or Single Pass Per Side	Multipa	ss from groove side	The state of the s
Multiple or Single Electrodes	Single		

PQR NO. PQ2



Pass	Process	Filler Metal	Diameter mm (in.)	Current & Polarity	Amperage Range	Voltage Range	Travel Speed
_1	SMAW	E6010	3.2 (1/8)	DCRP	70 - 95		mm/min. (i.p.m.)
2	SMAW	E7018-1	2.4 (3/32)	DCRP	85 - 110	25 - 27	90 (3.5)
_3	SMAW	E7018-1	3.2 (1/8)	DCRP		21 - 24	75 (3.0)
4	SMAW	E7018-1	3.2 (1/8)		110 - 140	21 - 24	75 (3.0)
			V.A (170)	DCRP	110 - 135	21 - 24	70 (2.75)

PQR NO. PQ2

TENSILE TEST (QW-150)

Specimen No.	Width mm (in.)	Thickness mm (in.)	Area Sq. mm (Sq. In.)	Ultimate Load N (lbs.)	Ultimate Stress MPa (psi)	Character & Fracture Location
T1	19.0	8.41	160	80 200	501	Portiot Cup 9 Cons
	(0.748)	(0.331)	(0.248)	(18,050)	(72,700)	Partial, Cup & Cone Parent Metal (P1, Grp. 1)
T2	18.9	8.48	160	81 700	511	Partial Cup & Cone
	(0.744)	(0.334)	(0.248)	(18,380)	(74,000)	Parent Metal (P1, Grp. 1)

GUIDED BEND TEST (QW-160)

Type & Figure No.	Result	Type & Figure No.	Result
QW-462.2, TSB - S1	Pass	QW-462.2, TSB - S3	Pass
QW-462.2, TSB - S2	Pass	QW-462.2, TSB - S4	Pass

Welders Name Allan Wallace Certificate File No. W-4588 Tests Conducted By Ludwig & Associates Ltd. Laboratory Test No. C93-289.5 We hereby recertify that the statements in this record have been revised in accordance with paragraph QW-200.2 and that the test welds were prepared, welded and tested in accordance with the requirements of Section IX of the ASME Code. Manufacturer COMPLETE OILFIELD SERVICES LTD. Formerly Piepke's Welding Ltd. Date May 12, 2003 Signed Days Astronomy.

Welding Consulting and Engineering

Li	ABORATORY TEST REP	ORT	2
Laboratory Test Number Customer: Name Address Attention PQR Number PQ2	C93-289.5 Piepke's Welding ttd. Box 356. Acme. Albert averne Piepke Them	Date A TOM AOA mal Condition	As_Welded
Sample Number Width mm (in.) Thickness mm (in.) Area sq. mm (sq. in.) Ult. Load N (lbs.) UTS MPa (psi.) Fracture Type Fracture Location	TENSILE TEST T1 19.0 (0.748) 8.41 (0.331) 160 (0.248) 80 200 (18,050) 501 (72,700) Partial Cup & Cone P1,Grp.1 Base Metal	T2 18.9 8.48 160 81 700 511 Partial (P1,Grp.1	(0.744) (0.334) (0.248) (18,380) (74,000) Cup & Cone Base Metal
Sample Width 9.53 mm (0.375 Plunger Size 38.1 mm (1.500 Type Side Bend Sample Number S1 Results Pass We certify the test results in action and latest addition and latest additional latest	Side Bend S2 Pass in this report and t	Size <u>60.3 mm</u> Side Bend S3 Pass	(2.375 in.) Side Bend S4 Pass

Pat Voisin, E.T.T. / Steve Rieberger, C.E.T.

LABORATORY TEST REPORT

Laboratory Test N	umber <u>C93-289.5</u>	Data Assil as year
Customer: Name	Piepke's Welding Ltd.	Date <u>April 29, 1993</u>
Address Attention	Box 356, Acme. Alberta Laverne Pienke	TOM AOA
PQR Number Material Thickness	P02 Therma SA 333 Grade 6 to SA 350 Gr 9.53 mm (0.375 in.) Size	1 Condition As Welded ade LF2

HARDNESS TEST

Type of Test:

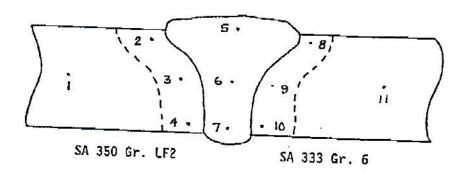
Rockwell

Scale:

"B" scale

Instrument Type:

Newage Digital Versitron



- 1) 80.6 HRB
- 5) 86.7 HRB
- 9) 83.1 HRB

- 2) 83.5 HRB
- 6) 84.2 HRB
- 82.6 HRB 10)

- 3) 83.2 HRB
- 7) 85.3 HRB

- 4) 81.4 HRB
- 8) 83.0 HRB

11) 80.8 HRB

We certify the test results in this report and that the above specimen(s) were prepared and tested in accordance with the requirements of ASTM E18-92.

Laboratory Test Conducted By:

Pat Voisin, E.T.T. / Steve Rieberger, C.E.I.

4027 - 14 Street S.E. CALGARY, ALBERTA T2G 3K6 PHONE; (403) 262-7072 FAX: (403) 266-3169 7925 Davies Road, EDMONTON, ALBERTA TEE 4N1 PHONE; (403) 468-3030 FAX; (403) 468-3032



Grade "狠" Pressure Welder's

Certificate of Competency This is to certify their Marty Pighin

having complied with provisions of the Safety Codes Act, is authorized to engage In pressure welding in accordance with the prescribed Regulations.



W-22092 File no.

Dated at Edmonton March 19, 2004

012/921150



591 16A

JOURNEVMAN CERTIFICATE

THIS IS TO CERTIFY THAT MARTY PIGHEN
THE STANDARDS ESTABLENED UNDER THE ALERTA APPRENTICES HIP PROGRAM AND HAVING ACHIEVED
HAVE STANDARDS ESTABLENED UNDER THE ALERTA APPRENTICES HIP AND
HAVE THE TRANSING ACT, IS HEREBY AUTHORIZED TO WORK IN THE TRANSIC

EFFECTIVE DATE

ISSUE DATE March 17th, 2004

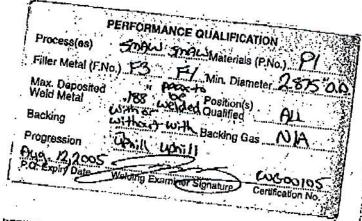
PERFORMANCE QUALIFICATION Process(es) SMAW SMAW Materials (P.No.) 2/ Filer Metal (F.No.) F3 FY Min. Diameter 1,0000.D. Max. Deposited Weld Metal Position(s) Qualified Backing Backing Gas Progression June 18, 2006 Welding Examiner Signature E-00097 Certification No.

LUDWIG & ASSOCIATES LTD. A.O.Q.P. No. 7106 Calgary WELDER PERFORMANCE QUALIFICATION CARD Name: Planty This card is issued oursuant to the Safety Codes Act and the Pressure Welders'

This care is issued pursuant to the salety codes act and the Pressure Weigers. Regulations. The performance qualification is in accordance with Section IX of the ASME Code and subject to the limitations on the reverse side. Date of Test 2004 Welder's Signatur

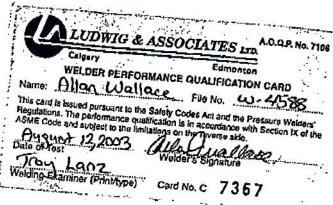
Welding Examiner (Printippe)

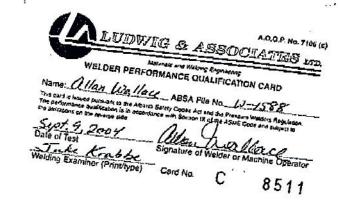
Card No. C 7888

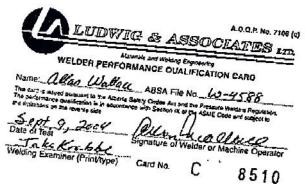


Process(es)	Sman	SAAL		851
Filler Metal	3277375		Maredals (P.	No.) Pi
Group (F.No.)	F3.	EU	Min, Outside	
Max. Deposite		· made . Lin	Diameter	1.000.0
Weld Metal	188"	Ga"	Position(s)	***************************************
	the or	س.۲۲ س.۲۲	Oualified	All
orogression)	Desphill	Oskil	Backing Gas	NA
O. Expiry Date	6 Oct	2	11-	
. expiry Date	Welding	Examiner 8		00200

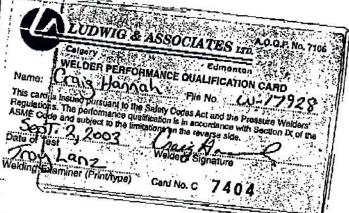
Process(es)	NCE QUALIFICA	TION C ريوبي Materials (P.	8510
Filler Metal		Materials (P.	No. Di
Group (F.Na.)	E3 +	Win Outside	
Max. Deposited Wold Metal	400°	Diameler	100,00
Backing 4	Han G	Position(s) Qualified	All
Progression Up	shill with	Backing Gas	N/A
PO Expliy Date	Jake 2	!! : - 01	,
- Expiry Date	Welding Examin	E.	00040













Chair 4/

012/461403 32290A JOURNEYMAN CERTIFICATE THIS IS TO CERTIFY THAT PAIC LLEWILL YN HANGAL EFFECTIVE DATE July 26th, 1949 ISSUE DATE August 11th, 1690

LUDWIG & A	ACCP. NO. 7106 (4) SSOCIATES LTD
WELDER PERFORMANCE QUI	Etrámento
Name: Lloyd Prohl ABBA FI	18 No. W-14085
This coud is issued pursuous to the Alberta Serely Codes Act. The performance qualification is in accordance with Section I die limitations on the feverse side.	and the Pressure Wolders Regulation, If of the ASNE Code and subject to
Date of Test Signature of	Welder of Machine Operator
Welding Examiner (Print/type) Card No.	C 8541

PERFORMANCE QUALIFICATION C 8541

Process(es) SMAN SYNON Materials (P.No.) P1

Filter Metal Group (F.No.) F3 F9 Min.Outside Diameter J.O.A.O.D.

Max. Deposited Metal 188" 500" Position(e) Qualified A4

Backing Wild Metal 188" Solding Gas N/A

Progression Uphil Uphil Solding Examiner Signature Examiner Signature Examiner Signature Examiner Signature

2.5

. 7

LUIDV	VIG & A	ssoci	ATES un
WELDER PER	Marie		CARD
Name: Todd Pier	SKE ABSAI	ار الم	20208
This card is issued pursuant to the The performance qualification is in	Alberta Salahy Coder A	or and the Pressure	Wolden Regulation.
Dec 31, 200	4	$\mathcal D$.	
Date of Test	Signature	of Welder or	Aschine Operator
Welding Examiner (Print)		٠.	8061

PERFORMANCE QUALIFICATION 8061 Process(es) 5mgw 5mgw Materials (P.No.) 1.0' 🖁 Filler Metal Group (F.No.) Min.Outside .Diameter Max Deposited 188 654 Position(s)
Weld Metal 2317 05 AJH Backing Gas ALL. **N/V** Progression uphill EOGOS Examiner File No. Welding Examinor Signature

		ULTF	RASONIC	TESTIN	G REPORT	PAGE:	/_ OF:
CHOSPEC CLIENT: LOCATION: ITEM TESTED: ACCEPTANCE S	VEAT	TWINN 101(ESUNACES TRENTER	. A	P J: 21810 CKN: 4	DATE: 10 m. O. NO OB NO. 306-00 82650 S/N	
TECHNIQUE DETAILS 1. PROCEDURE NO.: 2. ULTRASONIC EQUIPMENT: MANUFACTURER: Kankaniaa Type: Usnāla Serial No.: 09 Was Calibration date: Date of Manufacturer: MANUFACTURER: White Green Type:							
4. CALIBRATION SCAN TYPE (Degrees)	PROBE TYPE (single/dual)	TRANSFER VALUE	FREQUENCY	SERIAL N	PRIMARY REFERENCE RESPONSE (dB) (%)	SCANNING SENSITIVITY (dB)	RANGE CALBRATION (mm/inches)
1 0.	Dune	4	5. 0	1/4"	100%	43.16.	. Too
3							
4	9 1		- 4/				10436
G.	WATER (Unon	Unglet		ELBUM Micya		ss · 184 *
SIGNATURES CLIENT: TECHNICIAN (SIGN)	Ryll		PRINT)	oblice	CGSB // 🗆	7.79 VEHICL	E# 35/

QO 🗆

ASS'T

(Client Representative signature indicates acceptance of reports and results, and acknowledgement of hours worked.)

(PRINT)

TERMS AND CONDITIONS: REFER TO OPPOSITE SIDE FOR SCOPE OF SERVICES AND STANDARD OF CARE.

ASSISTANT (SIGN):

	ISO 9002	MAGNE	ETIC PARTIC	LE TESTI	ING REPO	RT _M -	3378 3	
						8 8 64	00700	
CAUSE	PEC					PAGE	2 0	88
CLIENT	- EO	G RESONC	ES		DATE		Control of the second	2.
ATTENTION					CANSPEC JOB #	# 300.	may 05	
ADDRESS		TWINNING	149		PO/WO #		1000 677	
					WORK LOCATIO	N		
PROJECT	121 AT	1-1			ACCEPTANCE			
ITEM TESTED	(A) 21000	LEATICAL TI	REATER		STANDARD	Mon	E VILL DIVI	App 6
	1)21001	0 (770. 78	2650 S/N W	W12083	PROCEDURE # TECHNIQUE #		15 73	
JOB DESCRI	PTION				TEOTINIQUE #	Ħ	1 . # 3	
PART#				MATERIAL	Calson		- 2	
SCOPE					- CARO ON	STEE		
TEST DETAIL	S	_						
METHOD DRY		FLUORESCENT 🗍	Non fluorescent	YOKE 🖸	Coil 🗆	HEAD 🗍	CONDUCTOR	BAR 🗖
PARTICLE BRANE	THE YOUR VE	PRODUCT No. /	411 7115	CURRENT	AC 🗆	DC 🗆	CONDUCTOR	DAK L
PARTICLE COLOR		7.70	ск 🖭	MT INSTRUME	NT PARILER E		7701	
SUSPENSION	WATER 🗗		APPLICABLE	CALIBRATION E	DATE Aug			
CONTRAST PAIN	MAGNAFLY	PRODUCT No.	wer IT	BLACK LIGHT T	TYPE Spectadio	S/N	5175	
MAG. TIME		DEMAG. REQUI	RED YES NO O	CALIBRATION E	DUE DATE DATE	1		
TEST SURFAC	Color.							
SURFACE CO	NDITION	As Ground 🗖	As WELDED	MACHINED	SHOT BLASTED	CLE	EAN BARE METAL	4
		THE TECHNIQU	IE HAS BEEN DEMONSTRA	TED OVER A PAINT	ED SURFACE: YE	s 🗆	NOT APPLICABLE	
SURFACE TEN	MPERATURE < 5	7°C/135°F	57°C/135°F to 31	6°C/600°F	>24690/0000			
				0 0/0001	>316°C/600°F			
RESULTS				0 0/0001	23 16°C/600°F			
				ltem .	Comments		Accept	Reject
					14		Accept	Reject
RESULTS					14		Accept	Reject
RESULTS	etion was	s CAMIEU	047 00		14		Accept	Reject
RESULTS	etion was		047 00		14		Accept	Reject
RESULTS	etion was	s CAMIEU	047 00		14		Accept	Reject
INSTAC ALC	eton wa	s carereo outstay	047 on Netro	Item #	14		Accept	Reject
INSTAC ALC	eton wa	s carereo outstay	047 on Netro	Item #	14		Accept	Reject
INSTAC ALC	eton wa	s carereo outstay	047 on Netro	Item #	14		Accept	Reject
INSTAC ALC	eton wa	s carereo outstay	047 00	Item #	14		Accept	Reject
MESULTS MESSAC ACC MESSAC	Rejection	s carrier overly note invi	actions Actions Actions Actions	Item #	14		Accept	Reject
MESULTS MESSAC ACC MESSAC	Rejection	s carereo outstay	actions Actions Actions Actions	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier outstay aste mos	attions Ale- paperte	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier overly note invi	attions Ale- paperte	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier outstay aste mos	attions Ale- paperte	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier outstay aste mos	attions Ale- paperte	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier outstay aste mos	attions Ale- paperte	Item #	14		Accept	Reject
MESULTS INSPERIENCE ACC MCC	Rejection Constitution Constitu	s carrier outstay aste mos	attions Ale- paperte	Item	Comments		Accept Accept	Reject
RESULTS INSTANCE ACC ACC ACC ACC ACC ACC ACC	Rejection was	s carrier outstay aste mos	attions Ale- paperte	Item	Comments Posite side for sc	OPE OF SERVI	ICES AND STANDARD	Reject
MESULTS INSPERIENCE ACC NOTE POPE POP	Rejection was	s carrier outstay aste mos	attions Ale- paperte	Item	Comments Posite side for sc		ICES AND STANDARD	Reject OF CARE
SIGNATURES CLIENT REPRESEN	RECTION WAS	s careies outsty note insi	attions Ale- paperte	REFER TO OP	Comments Posite side for sc	OPE OF SERVI	ICES AND STANDARD	Reject
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SIGNATURES CLIENT REPRESEN	RECTION WAS	s careies outsty note insi	attions the majorite	REFER TO OP	Comments Posite side for sc	OPE OF SERVI	ICES AND STANDARD	Reject OF CARE
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Client Representative: (Print) __



2507 - 84 Avenue, Edmonton, Alberta T6P 1K1 Phone (780) 417-7777 Fax: (780) 417-1185

N.D.E. EXAMINATION REPO	ORT			MT 🗈
CHENT, F. S. C. Darrey		*		рт □ 12333
INVOICE ADDRESS:				JOB NO.: 12463
WORK LOCATION: $16 - 30 - 31 + 24 - \omega \eta$	7 111.11	un datt		DEPT. CODE:
STANDARD/AITEC PROCEDURE: AT TO STANDARD	1 42 120 13	00 077 47.		DATE: _MMY 5 / 05
ACCEPTANCE STANDARD: CLIENT IN	C. ASeal	\$ 627 TOTT - 2001 - 0	1.	P.O. NO.:
EXAMINATION OF: WELDS ON FIRE TU	61 28"	i in the second of	1 B. C.	W.O. NO.:
(A) 218010 SR# 1390 CRN# K	· ///// 1/ 1/ 2 - 7	S 10 , FOR IREAL	£.K	PAGE: OF
SURFACE: As Ground	☐ Shot BI	acted P M.		
TEST EQUIPMENT & MATERIALS:	Onot bi	asted 🖸 base Meta		Painted As Welded
				amination Temperature © C
EQUIPMENT Serial No. Frank Serial No. Serial No.	145	TECHNIQUE		TEST MEDIUM
☐ Perm Magnet	MPI AC	LPI		G/Type/Batch # MAGNAFLUX
☐ Coil	□ DC	□ Water Washable□ Post Emulsified	□-Wet	741 046 O2A
□ Blacklight	☐ Continuous	☐ Solvent Removable	☐ Dry	
	☐ Residual	_ solvent ricinovable	☐ Cold	wcf 2 our Contrast 03007k
☐ Alloy Analyzer		MCDV SAMMOND	□ Fluc	prescent
☐ Hardness Tester		Dwell Timemin	☐ Pen	etrant Dye
Other		Dovoloper Time		er
"NO RETECTABLE INDICA "WELDS ASCEPTABLE TO		9.0 70 9.5 mm WALL		AFROX.
A.M. P.M. TOTAL HOURS TIME IN TIME OUT TIME IN TIME OUT S.T. hrs. 5.7. hrs. 7 30 O.T. hrs.	KILOMETERS / D.O.	SUBSISTENCE MAN DAY OT / MEALS	F	CONSUMABLES 1 CA-V
TECHNICIAN(S)				
Interpretation is in accordance with the above mentioned standards, to the best of my Print: T CRSR (SNT Level)		Ha - 1		30300
Print: T TO 00 CGSB / SNT Level:				
Ass't: CGSB / SNT Level: The above representation is a professional opinion, final interpretation is the responsit	bility of the client. I have i	Reg. No.: reviewed and am in full agreement with the	Si	gn: of this report.

Sian I have the had





2507 - 84 Avenue, Edmonton, Alberta T6P 1K1 Phone (780) 417-7777 Fax: (780) 417-1185

ULTRAS	ONIC EX	KAMINAT	ON REPO	PRT		UT -	4481	in comments
CLIENT:	D.G. 265	OURCES						
INVOICE ADDRI	ESS:					JOB NO.:	1246.	3
WORK LOCATIO	on: <u>16 - 30 -</u>	- 31 - 7 W W	24		1977 200	DEPT. CC	DDE:	
STANDARD / AIT	TEC PROCEDUR	E: <i>O</i>				DATE: _	MAY 8	105
ACCEPTANCE S	STANDARD:	LIENT IN	150			P.O. NO.:		
EXAMINATION (DF:/186	TUBI W	966 78161	CANESS		W.O. NO.:	· — — — — — — — — — — — — — — — — — — —	
		390- CRN				PAGE	OF	,D
		☐ Machined			Base Metal	☐ Painte	ed 🗆	As Welded
ULTRASONIC E			20 1999			as s	7	
		Model: △						
		MM 10 25m	·Couplant: <u>UT</u>	· Tra	ansfer Value:	S .3		(dB)
Scanning Limitat	ion:							
TRANSDUCER ANGLE	FREQUENCY	CRYSTAL SIZE	PRIMARY REFERENCE RESPONSE (dB) (%		ANNING SENSITIVITY (dB)		RANGE CALIE (mm)	BRATION
D &	Control of State of S	3/8"	85%		53	2 4	7.07 77	D-1-14
					mai wai	Q- 7	12.4 1.52	12 C2 med 500
	1							
		-	VVVIII.V.			_		
			- APPARET					****
- THIC.	KNESS F	₹5m1 9.8	en ne TÖ	9.5-20	p-7		ā	
A.M.	P.M.	TOTAL HOURS	KILOMETERS	SUBSIS	TENCE	C	ONSUMABLES	
TIME IN TIME O				MAN DAY	OT / MEALS			
P		O.T. hi	s.					
TECHNICIAN(S)	4 8220/52 CSV							
Interpretation is in ac	cordance with the abo	ve mentioned standards, CGSB / ASNT	to the best of my profession	onal ability.	Vas 6	o: >	P 2 DF	
		CGSB / ASNT			radawad and am in i		ith the	
Office A Dove represen	auon is a professional	l opinion, final interpretati	the contract of the contract o	the client. I have		un agreement w	iui ine contents	or this report.
			2. C.			18 71 80		



VISUAL INSPECTION REPORT

Tel: (403) 291-3126 Fax: (403) 250-1015

VISUAL IN	SPECTION 1	REPOR	Τ										Repo	rt No	0. A	-002	701
					☐ Inst	allati	ion 🛛	Extern	al [Intern	al					Pa	ge 1 of 2
Date:	August 31, 200-	4	Job#:		307-00						50 ACC	-					8.1012
Inspected by:	Doug Davey		Inspec	tor's Job#:]									
Client:	EOG Resources							1									
Owner:	EOG Resources	s Ltd.						1									
Region: Area:	Three Hills							-									
Facility:	Twining		Loc	ation/LSD:	16-30-3	31-24	W4M	1									
Service:		Sour		Other:	10 50 1	71 24	******	1									
Description:		Exchange	T	ank 🗌 Furna	ice E	Boiler		1									
Unit#:			Equi	p#:				1									
Equip Name:	Treater			2000						1 1 1 1		2			9202000		
Jurisdiction #:	0218010		CRN	N:	F1446.2	2		□ Pn	otogr	aphed Pi	hoto ID#: _	A	approx. S	ize:	Volun	ie:	
Manufacturer	ABAX							PSVI	Data:		Isolation	valve(s) i	nstalled		Car-seale	ed ope	n
Year Built:	1984		S/N	#				Inlet S	ize:	1.5"	Outlet Siz	ze: 2"	Capa	acity:		RN:	
Components:	MDMT	Design '	Γ	MAWP	Outsid	e Dia.	(OD)	Set P		Tag#	Manuf	acturer	S/N		Serv. Co.	5	Serv. Date
Shell Side:		93°C		345 kPa				345 kF	a		Farris		CE20654	KA	CVS	(09/05
Tube Side:																	
Other:					Section Sectio	_	200000000000000000000000000000000000000							_			
Ch.II.	Material:	Nominal t/	Gauge	CA	Retire t		UT TN	<i>I</i> IL	Lo	west t	t OK?	1	RT	Sg	I/Dbl Weld	E%	a
Shell:					0						ПΥ	□ N	3	4		-	
Head:									<u> </u>		□ Y	□N	_	1		_	
Channel;											☐ Y	□N		_			
Tube:											□ Y	□N					
Other:		<u> </u>									□ Y	□N		<u> </u>			
Orientation:	☐ Horiz. 🛛 V	/ertical		Foundation:	☐ Cor			222002000	Tim	iber 🛛	Steel 🔲	Other:			Condition:		
	☐ Saddle		-	Seal-welded			Free to r	nove		and the second	Condition	n:					
Support:	Skirt Skirt			Free of debris		Con	nment:				Condition	n: Accep	table				
Support	☐ Hangers			Secure		Con	nment:				Condition	n:					
	Other:		Spec	eify:	10.00						Conditio	n;					-1-117
Overall:	General Conditi	ion:									Electrica	l groundi	ng: 🔲 D	irect	☐ Indirect	□ N	one
Ext. Surface:	☐ Painted ☐	Insulated	☐ Fir	e-proofed 🔲	Cladded		Other:				Conditio	n: Accep	table				
Ext. Fixtures:	☐ Ladder ☐	Platform(s	s) 🔲 (Other:		-0.4000.00	20.000 Lagr				Conditio	n:					N. C
Int. Surface	☐ Coated ☐	Lined	Thern	nal sprayed	Cladde	d 🔲	Welded	overlay	8		Conditio	n: Accep	table	-01.75-71			
Int. Fixtures	☐ Baffle ☐	Float [Imping	gement plate [Weir	□v	ortex B	reaker			Conditio						
	Manway/Po		e: 18"		Davit arm				n gre	ased	☐ Doub	le nutted	Co	nditio	n:		
Nozzles:	Reinforceme		sed	⊠ Weep ho				mment:									
	Piping well		1	✓ Joining a				mment:									
	☐ PSV Piping:		ains p		✓ Well-c			mment:		-							
	☐ Inlet Piping				Well-c			mment:									
l was as	Outlet Piping				Well-c			mment:			9						
Piping:	Drain Piping:				Well-c			mment:	-						***************************************		
				☐ Free from				mment:		-							
	☐ Process fluid			☐ Flow dire	2017 - 1000 - 2017 - 1017 - 1			mment:		-							
	Manual isol			Free from		incu	_	mment:		_							
Valves:	Automated			☐ Free from				mment:									
varves.	✓ Yutomated ✓ Vents and d	The state of the s	Speaks	Comment: A	esting connection one.	۵.		minent,	Acce	ptaoic							
	Pressure			: Acceptable	receptabl												
Gauges:	☐ Temperature			: Acceptable													
Ciale Class	Fluid level			i, Acceptable		Con	Ji4!										
Sight Glass		Re	ading:			Con	dition:	-									3.70D#
Recommended	Actions:																NCR#:
1) Assess corros	sion on section of	shell in ha	y sect	ion to determi	ne short t	erm c	orrosior	rate. D	etern	nine t-mir	n once data	is collec	ted.				
Survey area in	October 2004.																
10 30 30 30 30 30 30 30 30 30 30 30 30 30														-			
2) Conduct repa	airs Spring 2005.																
	ional natas an	atimustics	nogo:	D Dage	rt Na	0014	410	c:	mot.	re of Inc.	antor:						
	ional notes on cor is suitable for cor	and the second second		⊠ Repo	rt No.	0014	+10			re of Insp ed by: (pr		2-					
Equipment				The State of the S	DC 4 OO	0020								7			
	inspector	Certificat	t NO.	API5360 / A	7B2V 00	0038		Ke	ceive	ed by: (sig	311)	-					



VISUAL INSPECTION REPORT

Tel: (403) 291-3126 Fax: (403) 250-1015

CONTINU	ATION PAGE of Repor	rt No.	A-002701	Report No.	B-001410
	☐ Installation ☐ E	xternal		100 100 100 100 100 100 100 100 100 100	Page 2 of 2
A#: 0218010	S/N#:			or Other:	
Bottom Head Coated with Devoe 253 up to 18" about the Section General scale build-up above tray. Coated the Coated tray of the Section of the	orrosion evident on t nal was thickness 0.2 tached. ale. Scale on east sid	he wes 250" to	st side. A U 0.099" wa	JT scan was done a ll loss. UT reading:	nd a grid set up. s will be taken in
Gas Section No evidence of corrosion noted. Wel	ds were in good cond	dition.	Top head is	s in acceptable cond	lition.
All manways are coated with Devoe	253. Coating condition	on is ac	cceptable.		
Firetube was sandblasted and visually performed on all external butt welds a	vinspected. Tube is in ind fillet welds. No in	in good ndicati	d condition ons noted.	. Black on white M	.P.I. was
Vessel to be put on 1 year interval.					v
Recommended Actions:				5/7/ 35 89/7 49	NCR#:
1) Assess corrosion on section of shell in hay section to	determine short term corrosion	rate, Det	ermine t-min one	ce data is collected.	
Survey area in October 2004.					
2) Conduct repairs Spring 2005.					
Additional notes on continuation page: Equipment is suitable for continued service:	Report No. B-	Rece	ature of Inspecto ived by: (print) ived by: (sign)	r:	



ULTRASONIC INSPECTION REPORT

Date: O	CTOBER 2	7 / 2004		UE	T-0001		ЕСНО	JOB #:		Page 1 of 2
CLIENT:	EOG RES	OURCES CA	ANADA				Lerio	JOD II.		age I of 2
LOCATIO	N: 16-30-	31-24W4 T	WINNING I	3ATTERY	PROJ	ECT: TREA	ATER A	#218010		
ITEMS EX	AMINED:	1" X 1" G	RID ON WE	ST SIDE OF				210010		
PROCEDU	RE:		1 SECTION			CLIENT P	0#/J0	B #/ AFE-		
ACCEPTA	NCE CRITE	RIA: CLI	ENT EVALU	JATION				ASME V A	RT 5	
EQUIPME	NT/S/N/C	AL. DATE:	EPOCH IV	V / 40194604	/MAY 7 / 04					
CAL. BLO	CK(#'S): 1	2" STEP BL	OCK		COUPLAN	IT: UT-X		CABLE LENG	TH: 70"	
TEST PIEC	CE:		REF. REFLE	CTOR:	Type:			———	Response Ht	- 80%FSH
	THICKNESS	S: 🛛		SHEAR	WAVE:		-		TION:	. 00701 511
	ANGLE	WAVE	FREQ	SIZE	MFG.	S/N	RANC			TL db
1	O DEG	LONG	7.5 MHZ	0.250"	KBA	4575	8.000		+6	72
2	60 DEG	SHEAR	2.5 MHZ	0.250"	P.M.	95380	5.000		+6	64
3	70 DEG	SHEAR	2.5 MHZ	0.250"	P.M.	95380	5.000		+6	65
4										03
				TES	T RESULTS		oschillani)			
RANDON PREVIOU AVG. – 0 MIN. – 0.	0 AS REQ NWAY. S M SCANS JS SURVI .280"	UESTED I EEE PAGE WERE AL EY. (ATTI	3Y CLIEN 2 FOR GR SO DONE ENTION G	T. GRID I	S LOCATE ENESS REA EAST SIDI LOW ARE	ED JUST A ADINGS. E OF TRE AS MARI	ABOVI ATER KED P		Y LEVEL	AT
				ST	AMP		R	Regular Hours		7
					YMENSEN		0	Overtime Hou	rs	STORES NAVABORE - CONTRACTOR
				CGSB	#11424		S	Sub / Man Day	/	
				CGSB UT	II, MT II		k	Kilometers		300
					/		N	Aisc. Charges		
Client Represent DOUG DAV			Technician	4/		As	sistant:			



EOG RESOURCES CANADA

16-30-31-24W4

TREATER A# 218010

Report UET - 0001

Page 2 of 2

1" x 1" Grid on West Side of Treater

Shell Nominal = 0.250in

Reading less than Nominal

F	0.310in	0.305in	0.288in	0.263in	0.304in	0.283in	0.291in	0.273in	0.287in	0.272in	0.288in	0.282in	0.279in	0.297in	0.258in	0.317in	0.317in	0.325in	0.323in
ဟ	0.308in	0.311in	0.318in	0.284in	0.288in	0.293in	0.288in	0.258in	0.249in	0.275in	0.288in	0.291in	0.288in	0.258in	0.317in	0.318in	0.324in	0.318in	0.317in
œ	0.285in	0.315in	0.290in	0.298in	0.264in	0.299in	0.286in	0.265in	0.263in	0.285in	0.285in	0.296in	0.295in	0.282in	0.299in	0.314in	0.318in	0.318in	0.323in
ø	0.253in	0.278in	0.264in	0.271in	0.282in	0.286in	0.285in	0.312in	0.268in	0.285in	0.288in	0.282in	0.282in	0.240in	0.325in	0.321in	0.319in	0.324in	0.319in
۵	0.319in	0.308in	0.285in	0.266in	0.229in	0.283in	0.304in	0.285in	0.279in	0.275in	0.271in	0.295in	0.263in	0.257in	0.331in	0.317in	0.325in	0.325in	0.320in
0	0.292in	0.279in	0.286in	0.259in	0.279in	0.263in	0.304in	0.282in	0.273in	0.281in	0.283in	0.287in	0.283in	0.263in	0.320in	0.317in	0.325in	0.319in	0.318in
z	0.312in	0.298in	0.281in	0.263in	0.252in	0.282in	0.272in	0.277in	0.282in	0.285in	0.274in	0.283in	0.293in	0.248in	0.321in	0.322in	0.318in	0.325in	0.324in
≨	0.315in	0.280in	0.317in	0.310in	0.289in	0.282in	0.258in	0.270in	0.267in	0.269in	0.276in	0.269in	0.279in	0.249in	0.317in	0.316in	0.318in	0.320in	0.317in
_	0.311in	0.257in	0.286in	0.320in	0.253in	0.267in	0.273in	0.250in	0.283in	0.261in	0.283in	0.281in	0.272in	0.294in	0.328in	0.317in	0.315in	0.323in	0.318in
¥	0.303in	0.315in	0.289in	0.264in	0.244in	0.237in	0.265in	0.292in	0.278in	0.286in	0.275in	0.279in	0.274in	0.238in	0.318in	0.317in	0.317in	0.325in	0.319in
7	0.312in	0.289in	0.292in	0.268in	0.267in	0.293in	0.288in	0.298in	0.279in	0.276in	0.276in	0.267in	0.247in	0.257in	0.319in	0.317in	0.318in	0.321in	0.318in
=	0.316in	0.307in	0.285in	0.257in	0.212in	0.251in	0.278in	0.295in	0.281in	0.267in	0.276in	0.272in	0.265in	0.308in	0.320in	0.319in	0.322in	0.317in	0.320in
I	0.311in	0.298in	0.314in	0.293in	0.228in	0.245in	0.284in	0.271in	0.277in	0.279in	0.269in	0.282in	0.278in	0.253in	0.318in	0.314in	0.315in	0.316in	0.315in
g	0.320in	0.286in	0.301in	0.260in	0.261in	0.257in	0.245in	0.278in	0.292in	0.279in	0.280in	0.272in	0.256in	0.255in	0.320in	0.321in	0.315in	0.317in	0.314in
ш	0.300in	0.283in	0.214in	0.227in	0.198in	0.266in	0.247in	0.281in	0.277in	0.272in	0.292in	0.257in	0.298in	0.327in	0.318in	0.314in	0.319in	0.314in	0.320in
ш	0.291in	0.318in	0.309in	0.288in	0.264in	0.196in	0.296in	0.273in	0.271in	0.266in	0.261in	0.280in	0.288in	0.325in	0.317in	0.312in	0.317in	0.319in	0.315in
0	0.304in	0.307in	0.306in	0.253in	0.317in	0.226in	0.305in	0.271in	0.275in	0.249in	0.282in	0.273in	0.261in	0.337in	0.313in	0.315in	0.311in	0.317in	0.318in
ပ	0.265in	0.262in	0.280in	0.292in	0.271in	0.308in	0.291in	0.286in	0.266in	0.254in	0.259in	0.272in	0.291in	0.244in	0.323in	0.318in	0.318in	0.318in	0.317in
8	0.316in	0.301in	0.291in	0.308in	0.314in	0.309in	0.297in	0.282in	0.265in	0.261in	0.273in	0.248in	0.289in	0.333in	0.318in	0.319in	0.320in	0.320in	0.312in
⋖	0.295in	0.297in	0.305in	0.307in	0.308in	0.281in	0.293in	0.286in	0.285in	0.277in	0.258in	0.274in	0.294in	0.326in	0.318in	0.312in	0.313in	0.313in	0.314in
	-	2	6	4	2	9	7	œ	თ	10	Ε	12	13	4	15	16	17	18	6



VISUAL INSPECTION REPORT

Report No. A-010108

Type of Inspec	tion:				F	Installati	on	Exte	ernal		Inter	nal			P	age I	of	
Date:	100/16	04		Jol		-0002											-	
Inspected By:	2000	9BBE		ctor's Jol	o#:													
Client:	FOG 1	129500	MCI	=5	7.0													
Owner:	/)		"															
Region:		0	1															
Area:	6405	TPI	NE				a	-0 1/0										
Facility:			Loca	tion/LSE	10-6-	32-2.	MUH	m										
Service:	Swee	t 🔲 :	Sour	Oth	ier:													
Description:	Vesse	I E	changer			nace 🗌	Boiler											
Unit:	-,			Equip): P	540	110											
Equip Name:	027	TOR	To		1 HE	501C1.	25/	_										
Jurisdiction#:	1060			CRN	A-7	14//,	4						770	7				
Manufacturer:	C 855	11.	77	7		10.71	-7		7	529	TEL ST	2200 72	230	5	0 8	74/35933	,	16/161
***	Serial No	: PC	010		ear built;	1910				-	d Photo	_	23	/			.V.:	123581
Volume:	N. C. W. C.	D 70	PW		0 m	PSV Da	TENN HOLD	7 Jan 197			s) instal	-	1		1	CRN:		
Zones:	MAWP		MDMT	Op.P	Op.T	Set P	Tag#	Manufa	cturer	Serial			In	Out	Capacity	Serv.		Serv. Date
Shell Side:	1440	10094				#10	5,	141-1h	1	10 de	10-3	0	/	1986	5144 3CFM	CU:	> (4/03
Tube Side:						1430									JUM			
Other:	Material		Nomina	1 (CA CA	Datina	LIT	TML	Lower		Ago	Dot	Di	В	T Califold	mod I	E.C.	Calatan
Components: Shell:	Material A-106	-13	0,9		A	Retire t	UI	TIVIL	Lowe	st t	Acc	Ret	Dia	R	T Sgl/Dbl	weld	E%	CaleTmin
Head:	A-515	-70	0.810															
Channel:	17 515	10	1.010	70														
Tube:											H		-					
Other:			/								H	H						
Orientation:	Horiz	, 14	/ertical	F	oundation:	Conc	erete	Grave	əl 🔲	Timbe	r D	Steel		her:	Co	ndition	1	600
Onemation.	☐ Sadd			al-welde		Free to i		Grave		Conditi		neer		ner.	1.00	namon	·	
	Skirt			ee of del		omment:	IIII			Conditi		A	116	151	ABLE			
Support:	Hang			cure		omment			_	Conditi			4	211	100-			
	Othe		Specif			omment				Conditi								
Overall:	General C		/1 -		32E/0	185581	1511	OHET	ead Le		Electri	cal gro	ounding	27	Direct [India	ect [None
Ext. Surface:	Paint	77.5	Insulat	ed \square	Fire-proofe	а Псі	added	Othe			Condit		AKI	ED	TABLE			
Ext. Fixtures:	☐ Ladd		Platfor		Other				-		Condit	ion:		1				
Int. Surface:	Coate	ed [Lined	The	ermal spraye	ed 🔲 C	ladded	☐ We	lded ove	erlay	Condit	ion:						
Int. Fixtures:	Baff1	e [Float	☐ Imp	ingement pl	ate 🗌 W	/eir	☐ Vor	tex Bre	aker	Condit	ion:						
	Man	way/Port	Siz			Davit arm		Da Da	vit arm	grease	d 🗆	Doub	le nutte	ed	Conditio	n:		
Nozzles:	Rein	forcemen	t pads us	ed	Weep	holes pres	ent	Comm										
	Pipin	ig well su	pported		☐ Joinin	g as per co	ode	Comm	ent:	10	LE							
	PSV	Piping:		Drains p	roperly	Well-co		Comm	ent:									
	Inlet			Free from		Well-c		Comm	ent:									
Piping:		et Piping:	-	Free from		Well-co		Comm	40	-								
	Maria Historia de 1 - 1111	n Piping:	100 100	Free froi		Well-co	The same of the sa	Comm		-								
	Treatment of the	mentation	COLUMN TO A STATE OF THE PARTY			rom leaks/		Comm		-								
		ess fluid l				direction n	narked	Comm	9-7	-								
Values		ual Isolati	entre college			rom leaks		Comm	14	-								
Valves:		mated Co	20	100	The same of the sa	rom leaks		Comm	ent:	-								
		s and Dra			Comment					-								
Gauges:	Press			ondition: ondition:						-								
Sight Classic	Fluid	perature LL aval		ondition: ondition:						V					Paris	ding:		
Sight Glass: Recommended A		Level	U853		15	MLE	13	1105-	-111	1	222				Kea	arng.	T	NCD#.
Recommended A	edons:	*	0000	10%	12	WAR	10.	101	,,,									NCR#:
																/		
Summary Comm	ient:														. 11			
*														1	1//			
	notes on c				Report No.	В -			3244		ty Check		-	the	11/1			
Equipment is su					· ·			_			of Inspe			-				
		or Certific				wiczen P-		- 5)			ed by: (p							
Terms and Condit	ions: Refer	to oppos	ite side f	or scope	of services	and standa	ırd of ca	ire.		Recen	ved by: (sign)						



VISUAL INSPECTION REPORT

Report No. A-010108

Type of Inspe	ction:	- 40			+	Installati	on	Ext	ernal	[Inte	rnal				P	age 1	of 1	
Date:	1001	6,04		Jol	#: 307	1-0007	979											-	
Inspected By:		MABBE	Inspe	ctor's Jol	o#:														
Client:	106	1450	MCE	-5															
Owner:	1)		11																
Region:	1000	- 0	1 454																
Area:	Cottos	7 1	NE		14 /	27 7	7/11												
Facility:	TD4		_	tion/LSE		Sd- 4.	1604	10)											
Service:	Swee		Sour	Oth			-	_											
Description:	Vess	el L E	xchanger	Tar		rnace 🔲	Boiler	_											
Unit:	1	and and are also also		Equip	M A	290	210	_						- 3					
Equip Name:	3/1/2	FO	10	200	100	DORI	751	-											
Jurisdiction#:	1666	07		CRN:	11-1	74//1	4_	-					77	4					
Manufacturer:	C 853	790	-77	7 1 11	[16171	-)		1		-222	22570	23	5					101111
Valumar	Serial No	0:			ar built:	17/10	_		V V 03	CONTROL - 100	ed Photo	_	23	7				V.:	83381
Volume: Zones:	MAWP	Des. T	D PW MDMT		О. Т	PSV Dat		Carlotte III			(s) insta	lled	18:		aled ope		RN:		
Shell Side:	1440	1009F	MIDNII	Op.P	Op.T	Set P	Tag#	Manufa	acturer	100	1 0	9	In	Out	Capac		Serv. (1	Serv. Date
Tube Side:	1110	1001				1430	31	1hip	on	6001	1000	0	/		514		CUE	2 6	4/03
Other:						1950									SCF	m		- 2	
Components:	Material		Nomina		A	Retire t	LIT	TML	Lowe	act t	Age	Post	D:		DT C	L/DL1		C.C.	C-1 m
Shell:	A-114	-13	0.9	2611		Kethet	UI	TIVIL	Lowe	cstt	Acc	Ret	Dia		RT Sg	l/Dbl •	weid	E%	CalcTmin
Head:	A-515	-70	0.81	25"								H							
Channel:	1 313	-	. 0 10																
Tube:												H	+						
Other:	2		/								H	H							
Orientation:	Hori	z. 191	Vertical	Fo	oundation:	☐ Conc	rete [Grave	el [Timbe	, D	Steel		ther:		C	12.42	har	000
	☐ Sado		ATTORNA	al-welde		Free to r		Grave		Conditi		Sicci		uner.		Con	dition:	00	
	Skirt			ee of deb	100	omment:	nove			Conditi		1	1116	t.	NO	15			
Support:	Han			cure	100	omment.			_	Conditi			40	fil I	1106	har			
	Othe		Specif			Omment			_	Conditi									
Overall:		Condition	- 2	DIAR	XE 10	185561	1511	OHF I	Dead Le		Electr	ical gr	oundin	o:	Dir	ect [Indire	ct [None
Ext. Surface:	Pain	ted [Insulate	ed \square	Fire-proofe	d \square Cl:	added	Oth		2(-)	Condi		All	161	TAR	15	Indire		Tronc
Ext. Fixtures:	☐ Lado	- 102	Platfor		Other						Condi			1					
Int. Surface:	Coat	ted [Lined	7	rmal spraye	ed \square CI	added	□ We	lded ov	erlav	Condi								
Int. Fixtures:	Baff	le [Float		ngement pl			_	tex Bre		Condi								
	Man Man	way/Port	Siz	17		Davit arm	present		22	ı grease			ole nutt	ed	Con	dition	:		
Nozzles:	Rein	forcemen	t pads use	ed	☐ Weep	holes prese	The state of the state of	Comm	ent:										
	Pipir	ng well su	pported		Joinin	g as per co	de	Comm	ent:	10	LE								
	☐ PSV	Piping:		Drains pr		Well-co		Comm		-									
	Inlet	Piping:		Free fron		Well-co		Comm	ent:					1 11	7 11	-	* 1		
Piping:	Outle	et Piping:		Free fron	leaks [Well-co	oated	Comm	ent:										
- Ir.u.g.		n Piping:		Free fron	leaks [Well-co	oated	Comm	ent:		- 1								
	The state of the s	mentation				rom leaks/		Comm	ent:										
		ess fluid I	1000 1000 1000			direction m	arked	Comm	ent:								1		
		ual Isolati				rom leaks		Comm											
Valves:		mated Co			Value of the later of the	rom leaks		Comm	ent:								-		
	0.2	s and Dra			Comment:					1									
Gauges:	Press			ondition:															
		perature		ondition:						1									
Sight Glass:		l Level	111-	ondition:		1011	/	11		Y						Readi	ng:	_	
Recommended A	Actions:	-1/2	U255	4	12 1	Whit	151	101-	110	W	the							N	NCR#:
											75								
					- 1												,		
Summary Com-	ant:		-					-					-			1			
Summary Comm	icht.														1/	/			
Additional	notes on c	ontinuatio	on page:		Report No.	R -		1		Qualit	y Check	c: 🔲 .		11	1/1	_			
Equipment is su	iitable for c	continued	service:		керон по.	D-					of Inspe		-1	10	VUV				
		or Certific		-5	900 000			_			ed by: (p	100							
Ferms and Condit	ions: Refer	to opposi	ite side fo	or scope	of services	and standar	rd of car	re.		Receiv	ed by: (sign)							1
\A/bita	CANCRE	CCORV		Vell	01.15	NT CODY	,	ъ:						_					

CANSPEC GROUP INC. A Rockwood Company 1411 25 AVE N.E.

CALGARY, ALBERTA, CANADA T2E 7L6 TELEPHONE (403)291-3126 FAX (403) 250-1015

CUSTOMER NO: 20-EOG001

JOB #: 306-0008099 DEPARTMENT: 0306

INVOICE DATE: 05/26/2005

INVOICE NUMBER: 0752948-IN

BILL TO: EOG RESOURCES P.O. BOX 6210 DRAYTON VALLEY, AB T7A 1R7

RECEIVED
JUN 0 7 2005

CANSPEC GROUP INC 7450 18 STREET EDMONTON, ALBERTA, CANADA T6P 1N8 Page 1 of 1

Attention: ACCOUNTS PAYABLE

CUSTOMER P.O.

AUTHORIZED BY: VANCE UTRI

VISUAL INSPECTION AND MT INSPECTION OF TREATER REPAIRS @ N. TWINING 16-30-31-24 W4M.

DESCRIPTION	QUANTITY	LINET OF LETACIES		
REPORT ASSISTANT		UNIT OF MEASURE	PRICE	AMOUNT
NDE INSPECTION CREW	2.500	HOUR	52.000	130.00
	8.000	HOUR	116.000	928.00
NDE INSPECTION CREW - OT	2.000	HOUR	174.000	348.00
TECHNICIAN - OT	8.000			
INSPECTOR, FIELD - API 510&572	77.7.7.7	HOUR	105.000	840.00
	24.000	HOUR	73.000	1,752.00
INSPECTOR - API 510 & 572 OT	8.000	HOUR	109.500	876.00
KMS - FIELD VEHICLES	1,210.000	KM		
OVERTIME MEAL	200 € 10 000 1000 000 000 000 000 000 000		0.850	1,028.50
	1.000	MEAL	20.000	20.00

Subcode: 98207390

AFE#: FACOCOOSS

LSD:

Approval: Lbd Ubcl.

Net Invoice:

5,922.50

Less Discount: GST (Reg #136541273RT0002)

0.00 414.58

(TVQ REG NO.1015195106): Invoice Total:

0.00 **6,337.0**8

TERMS: NET 30 DAYS. INTEREST OF 2% PER MONTH (24% PER ANNUM) CHARGED ON ALL OVERDUE ACCOUNTS Disbursements not yet received will be invoiced at a later date.

SCOPE OF SERVICE

The Agreement of Canspec Group Inc. to perform services extends only to those services provided for in writing. Under no circumstances shall such services extend beyond the performance of the requested inspection of specific equipment provided for in writing and the preparation of reports or similar documents reflecting the inspection data obtained or the opinion formulated on the they be construed as representations or warranties as to the actual circumstances. Campec is not assuming any responsibilities of the owner/operator, and the owner/operator remins complete services referred to herein exceed the amount paid for such services.

COPY

STANDARD OF CARE

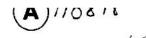
In performing the services provided, Canspot Group Inc. uses the degree, care and skill ordinarily exercised under similar circumstances by others performing such services in the same or similar locality. No other warranty, expressed or implied, is made or intended by Canspot Group Inc.



MAGNETIC PARTICLE / LIQUID PENETRANT INSPECTION REPORT

Date:	AUG. 31/04		M-	- CG-0025		Pag	e	1 of 1
CLIENT:				E.O.G. RESO	OURCES CA			
CONTRACT	OR:						-	
LOCATION	: 16-30-31-24W4N	1		PROJECT: FI	IRETUBE			
ITEMS EXA	MINED:	AS DESCRIBE	BELOW					
PROCEDUR	E:	MT-3A		CLIENT PO	# / JOB #:			
ACCEPTAN	CE CRITERIA:	ASME VIII DIV	1	SPECIFICAT	ION:	ASME V		
	CONDITION		300000000000000000000000000000000000000	2000		<u> </u>		
☑ Clean Base	Metal As G	round Machin	ned Shot Blast	Painted	Other:	SAND BLAST		
			MPI M	IETHOD				
✓AC [□DC □HWR	ectified 🔽 Cont	inuous 🔲 Residual	☐ 12V	☑ 120V	Other:		
EQUIPMEN	T TYPE							
✓ Yoke	Coil E	Bench	Serial # & Calibrat	tion of Yoke : S	S/N-9566 / C	CAL. DATE 04/25/04		
Blacklight			Serial # & Calibrat	tion Light Inten	sity:			
MPI MEDIU	J M			2 22 22 22 22				1000 Ba-1, 1000
☐ Dry	Colour:			Wet		Fluorescent Bl	ack on V	White
	256		LPI M	ETHOD				
PRODUCT	MANUFACTURE	R:	W 10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-					
Penetrant:		S/N	☐ Vis ☐ Fluores	scent War	ter Wash	Post Emulsified Sc	olvent Re	emovable
Developer:	7	S/N	☐ Wet ☐ D	ry Nor	naqueous			
Approximation (see			TEST R	RESULTS				
			TWINING BATT	ERY, 16-30-3	1-24W4M			
					RNAL BUT	T WELDS AND FILL	ET WE	ELDS
	OF A FIRETUBI	E AS REQUESTI	ED BY THE CLIE	NT.				
	RESULTS:							
	NO DEFECTS W	ERE FOUND A	T THE TIME OF I	NSPECTION	. ALL WE	LDS EXAMINED ARE	ļ	
	ACCEPTABLE A	AS PER CODE.						
W-100								
			STAMP			Regular Hours	S	EE RPT#
I-CAN PAR	TICLES		CURTIS GR	AHAM		Overtime Hours	ı	U-CG001
I-CAN CON	TRAST PAINT		CGSB- RTII, MT	II, PTII, UTI		Sub / Man Day		
21. 1887 pro 2. 1888 pro	170000		SNT-RTII, MTII	I, PTII,UTI		Kilometers	_	
			#6560			Misc. Charges		
lient Representativ	re DOUG DAVEY	Technician	CURT	IS GRAHAM		ASSISTANT: DAVE HERNAND		*****
		(is	1 - X	1				71-71-1





AFFIDAVIT OF MANUFACTURER

COVERING BOILER OR PRESSURE VESSET

PURCHASE	ORDER No.	

LABOUR General Safety Services Division Boilers Branch

As Approved by the Boiler & Pressure Vessel Committee of the C.S.A.

Upor	shipment of	Boiler or Pressure	Vessel this form fully	and correctly	filled in and attested	to must be mailed to	the office of the
Chief	f Inspector in	n the province of	installation in accordar	ce with the r	egulations under the	Act governing the	construction and
instal	llation of boil	ers and pressure ve	ssels, otherwise the use	of same may be	e prohibited or the w	orking pressure severe	ly penalized.

1.	Manufactured b	BLACK, SIVALL	S & BRYSON LII	MITED, 6	203–2	104 S	TREET. E	DMONTON, ALI	BERTA
558		CANGAS LTD.,							*******************************
		SAME AS ABOVE	(Name and Add	dress of Purch Name and Ado	aser or	Consign	nee}		
	Location of inst	allationTHREE HI	TTC ATDEDTA	Name and Add					
2.	Type of holler o	r pressure vesselTR	EATER				Mfo Cari	una 77226-0	01
			STANCE SCHOOL SECTION						01-1-1
	65	(Air, Co ₂ , Propane, Ammo							
3.	Dia72!!	L.D Overall length .	32.5"	Cu, ft. capacit	y	846	Неа	ting surface	s ₁ (t.
4.	Were test report	s checked on all plates uses	d in the fabrication of	this boiler or	pressur	re vessel	7YES	S	
	Does all materia	I meet A.S.M.E. Code requ	uirements?	• • • • • • • • • • • • • • • • • • • •			YES	X	••••••
	A.S.M.E., A.S.T	.M. or other material speci	fication NoA28	3-C/A-28	5 .C		Tensile st	rength 55,000	/55,000
_			1076	V.		^-		NO	enom
5.		A.S.M.E. Code, Para, No							
		ng records on mig's files?	St. 30 3						
	Were X-ray film	s examined and found to n	neet Code requirement	ts?				YES	
6.	Welders employ	ed upon boiler or pressure	vessel.						
		velders and Province or in which qualified	Identifying Symbol	Date of I weld ve			elified for under Code	Name of Inspector supervising tests	National Board No.
	D. 0	DOMD	0	April	111		o de la Maria de la Composition de la Compositio	M. BOYCHUK	
		JARIF	S	March	_/77		lr 	E. BROSSEAU	5
		IATELLO	M	Aug.	/76		11	G. DOBBIE	
	2	OURMS g on this vessel and the test	T. (AUTO)	Jan.	/76	•	49.8	B. HURST	13.5
7	Hydrostatic tes		ang or edupons where	required inect	7.2.		e requirement	31	i j
55	and	NAME	OF PART	Temperat of Testing Me		F	inal test psi.	Maximum working pressure psi.	Maximum operating temperature degrees F.
	Working Pressu	es.							
		ENTI	RE VESSEL	60	°F.		93	50	200° F.
									95
	Did the hydros	tatic tests fully conform to	Code requirements?	Ү	ES				
8.	Boiler rating, m	ax-steaming capacity (rate	d B.T.U./hr. output for	r hotwater bo	ilers)				J. 1
9.	SAFETY VAL	VES:							
	No. of valves	Maker's Name, Trade Mark or Type No.	Provincial Registration No.	Inlet Diameter		eat meter	Set to relieve at psi,	Free discharge area	Capacity Ibs. per hour
									jan san en
		TO BE TA	NSTALLED		+-				2 202.6
		10 00 11			-	_			-

Does safety valve stamping, blow-down adjustment, etc., meet A.S.M.E. requirements?

Actual minimum stamping of the boiler or pressure vessel shall cunform to the plate for cast iron)			
Canadian Registration number	C.R.N		
National Board number (if manufactured in U.S.A.)	Nat. Bd		
Manufacturer and manufacturer's serial number		Sr. No	
Plate mfg's initials, spec. No. and tensile strength (Stelco, SA 285 etc.)		, T.S	********
Maximum working pressure	oth) Max. W.P	p.s.i. Temp	0
Effective heating surface and year built (1967 etc.)	H.S.	Sq. F1,	19
Initials of authorized shop inspector		***************************************	***********
PRESSURE VESSEL -			
Canadian Registration number	C.R.N. 6412	.3	
National Board number (if manufactured in U.S.A.)	Nat. Bd		
Manufacturer and manufacturer's serial number	F_2000 - 0 - 0000 - 0000 - 0000 - 0000 - 0000 - 0000		
	A-283-C/A-285-C		
Maximum working pressure and temperature	400 - A 100 -		
Thickness of shell and heads			
Code paragraph number and year !uilt (1967 etc.)	U.W12	(b)19	
Initials of Authorized Shop Inspector	to boiler or pressure Vessel	bearing manufact	turer's Serial I
Initials of Authorized Shop Inspector	to boiler or pressure Vessel i	bearing manufact	turer's Serial I
Initials of Authorized Shop Inspector I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI	to boiler or pressure Vessel i	bearing manufactEDMONTONOCTOBER	urer's Serial
Initials of Authorized Shop Inspector I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h	to boiler or pressure Vessel it. TED	bearing manufactEDMONTONOCTOBER	urer's Serial I 19.77 ed design No.
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5	to boiler or pressure Vessel it. TED	bearing manufactEDMONTONOCTOBER	urer's Serial I 19.77 ed design No.
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 6412.2 and that it complies fully with the A	to boiler or pressure Vessel it. TED	bearing manufactEDMONTONOCTOBER	urer's Serial I 19.77 ed design No.
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 5412.2 and that it complies fully with the A the Act governing the construction of boilers and pressure vessels.	to boiler or pressure Vessel in TED	bearing manufactEDMONTONOCTOBER	urer's Serial I 19.77 ed design No.
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I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRY20N LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h	to boiler or pressure Vessel in TED	Dearing manufact EDMONTON OCTOBER Provincial register I the Province of Shop For	turer's Serial (19 7.2 ed design No. Enstallation un
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 6412.2 and that it complies fully with the A the Act governing the construction of boilers and pressure vessels. Sworn before me at EDMONTON Sign the Province (or State) of ALBERTA this 5 day of OCTOBER 19.77	to boiler or pressure Vessel in the boiler or pressure Vessel in the boiler of the boi	Dearing manufact EDMONTON OCTOBER Provincial register the Province of Shop For	turer's Serial1972 ed design No. Installation un
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYZON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 6412.2 and that it complies fully with the A the Act governing the construction of boilers and pressure vessels. Sworn before me at EDMONTON Sign the Province (or State) of ALBERTA	to boiler or pressure Vessel ITED of day of day of day. A.S.M.E. Code and regulations of day.	Dearing manufact EDMONTON OCTOBER Provincial register the Province of Shop For	turer's Serial (19. 72 ed design No. Installation un
I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYCON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 6412.2 and that it complies fully with the A the Act governing the construction of boilers and pressure vessels. Sworn before me at EDMONTON Sign the Province (or State) of ALBERTA this 5 day of OCTOBER 19.77	to boiler or pressure Vessel in the boiler or pressure Vessel in the boiler of the boi	Dearing manufact EDMONTON OCTOBER Provincial register the Province of Shop For BRYSON LIMI	urer's Serial19.72 ed design No. Installation un
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I HEREBY DECLARE that the foregoing statements, having reference 226-001 built by BLACK, SIVALLS & BRYZON LIMI ALBERTA and completed on the 5 are in all respects correct and true, and that the said boiler or pressure Vessel h 6412.2 and that it complies fully with the A the Act governing the construction of boilers and pressure vessels. Sworn before me at EDMONTON Sign the Province (or State) of ALBERTA this 5 day of OCTOBER 19.77 A Compressional for Oads, 77, or N.P. My commission expires JULY 5, 1979 CERTIFICATE OF SHOP	to boiler or pressure Vessel in TED	Dearing manufact EDMONTON OCTOBER Provincial register the Province of Shop For BRYSON LIM Firm Nar	turer's Serial ! 1977 ed design No Installation un eman. ETED ALBERTA ne and Address
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ULTRASONIC INSPECTION REPORT

Date: AUG. 31/04 U-CG0			U-CG001					Page 1 of		
CLIENT:	E.O.G. RE	SOURCES	CANADA						1	
LOCATIO	N: 16-30-3	1-24W5M			PROJ	ECT: U.T. (ORROSION	SURVEY		
ITEMS EX	AMINED:	VERTICA	L TREATER			-		1		<u> </u>
PROCEDU	RE:		UT 1 5	SECTION 8	3	CLIENT P	O # / JOB #/			
ACCEPTA	NCE CRITE	RIA: CLI	ENT EVALU	JATION		SPECIFIC	ATION: AS	ME V ART	Γ.5	
EQUIPME!	NT / S/N / C	AL. DATE:	KRAUTK	RAMER	DMS 2	S/N: 00YT4	J CA	L DATE:	AUG. 25/04	
CAL. BLO	CK(#`S): 1/2	" STEP BLO	OCK		COUPLAN	VT: UT-X	CAB	LE LENGT	H; 48"	
TEST PIEC	CE:	Г	REF. REFLE	CTOR: S.I	D.H. Type:	┌ Size:	2mm Depth	: 1/4 R	esponse Ht:	80% FSH
	THICKNESS	: X		SH	EAR WAVE:				NATION:	
	ANGLE	WAVE	FREQ	SIZE	MFG.	S/N	RANGE	Ref. db	Scan db	TL db
1	0 Degree	Long.	5 MHz	.250"	Krautkramer	00YHI	1.000"	58db	+6	64
2										
3									1	
4				OCHRENIC STORY CO.						

TREATER A#218010

*A U.T. SCAN WAS PERFORMED USING A GRID ON THE WEST SIDE OF THE TREATER AS REQUESTED BY THE CLIENT. THIS GRID WAS LOCATED JUST ABOVE THE TRAY LEVEL AT THE MANWAY. RESULTS OF THE SCAN ARE PRESENTED ON PAGE 2 OF THIS REPORT. READINGS ARE TO BE FURTHER EVALUATED BY CLIENT.

RANDOM SCANS WERE ALSO PERFORMED ON THE EAST SIDE OF THE TREATER AS REQUESTED.

AVG: 0.280" LOW: 0.141"

THESE READINGS ARE TO BE FURTHER EVALUATED BY THE CLIENT. *INCLUSIONS WERE ALSO NOTED THROUGHOUT SCANNED AREAS OF THE SHELL.

	STAMP	Regular Hours	8	
	CURTIS GRAHAM	Overtime Hours	2	
	CGSB RTII, MTII, PTII, UTI	Sub / Man Day		
	SNT RTII, MTII, PTII, UTI	Kilometers	300	
		Misc. Charges		
Client Representative DOUG DAVEY	Technician: CURTIS GRAHAM	Assistant DAVE HERNANDEZ		

TREATER H# 218010 (GRID, WEST STOK)

1 .380 .276 .376 .369 .374 .366 .377 .383 .386 .378 .378 .365 .390 .375 .377 .375 .336 .356 .340 .379 2 1271 1279 254 1269 278 1.224 257 257 259 276 1267 256 231 1256 268 250 354 265 388 367 387 . 276 . 266 . 250 . 210 . 289 . 173 . 225 . 249 . 232 . 237 . 245 . 236 . 260 . 259 . 233 . 256 . 239 . 255 . 249 . 249 376 273 .253 .251 .165 .169 .222 .204 .185 .235 .234 .239 .215 . 232 .241 .200 .245 .245 .245 .256 .259 3 273 265 348 192 367 -178 367 361 346 364 350,340 361 351 351 353 344 345 367 344 361 8,260,266,249,249,243,235,256,247,243,265,259,248,215,246,249,351,253,267,262,239.243 1.276,273 ,258,269 ,255,239, 213 ,250 ,256,259,247,202,235,246,315,266,259,268,267,265 10,250, 234, 232, 228, 230, 235, 220, 240, 241, 233, 244, 231, 235, 247, 243, 247, 240, 249, 243, 239, 352 11 . 235 , 239 , 231 , 240 , 232 , 261 , 237 , 248 , 251 , 244 , 266 , 258 , 254 , 259 , 244 , 259 , 232 , 237 , 262 13,231,221,211,211,207,227,230,326,244,215,218,225,268,263,251,233,253,257,357,352,259 14.260 1.380 1.383 1.336 1.236 1.234 1.231 1.254 1.247 1.236 1.256 1.256 1.227 1.235 1.224 1.230 1.222 1.220 1.227 1.232 15,302 | 302 | 301 | 303 | 304 | 301 | 302 | 302 | 303 | 305 | 305 | 306 | 306 | 307 | 311 | 206 | 265 | 265 | 249 | 295 6 1262 .268 .251 .184 .167 .151 .226 .216 .210 .223 .215 .225 .245 .239 .205 .229 .20 .233 .253 .253 12,243,224,231,248,232,241,236,334,253,325,246,247,247,246,256,361,253,252,261,251,351 16.301.301.300 |.301 |.302 |.302 |.301 |.300 |.302 |.304 |.305 |.307 |.307 |.307 |.308 |.308 |.307 |.307 |.307 17 301 1.300 1.300 1.300 1.301 1.300 1.300 1.300 1.302 1.305 1.306 1.305 1.305 1.306 1.307 1.304 .307 1.306 1.304 . 252 | .238 | . 234 | 248 | . 225 | .236 | .249 | .246 | .249 | .262 | .246 | .250 | .239 | .249 | .243 | .239 | .241 | .227 | .231 18 300 3021.2991.3011.302 -3011.300 -3021.301 -3051.306 -3061.3091.307 -307 -307 -307 -3081.306 Ŋ V প্ত Q 0 ? B 7 × P H F φ V 9 C ω

PAGE 2

Fram RPT# U-(GOO)





2507 - 84 Avenue, Edmonton, Alberta T6P 1K1 Phone (780) 417-7777 Fax: (780) 417-1185

MT 1

I.D.E. EXAMINATIO	N REPORT		MT @ 12333
LIENT: E. D.G. RESOURC			- 1241.3
IVOICE ADDRESS:	2		JOB NO.: 1 24 6 3
ORK LOCATION: 16-30-31-4		6 BATT.	DEPT. CODE:
TANDARD/AITEC PROCEDURE:			DATE: MAY 8 / 05
CCEPTANCE STANDARD:	T INFO; ASMES	ELT JUL APPlo; DIV.	/. P.O. NO.:
XAMINATION OF: WELDS ON	FIRE TUBE: 20"	* 10'; FOR TREATER	, W.O. NO.:
1) 218010) SR# 1390	CRN F. 1446.2		PAGE: OF _ ∂
SURFACE: M As Ground	Machined Shot BI	asted	Painted As Welder Examination Temperature
EST EQUIPMENT & MATERIALS:			
EQUIPMENT	Serial No.	TECHNIQUE	TEST MEDIUM 'MFG/Type/Batch # MAGNAFLUX
Hand Yoke FERROUS	lo 8 4 3 MPI	· · · · · · · · · · · · · · · · · · ·	
Perm Magnet	□ AC	AND THE PROPERTY OF THE PROPER	TWet 7 45 046 02k
□ Coil		☐ Post Emulsified ☐ Solvent Removable	Dry
☐ Blacklight	□ Continuous □ Residual	- Contain tomorasis	Colour Contrast 03007k
☐ Alloy Analyzer			Fluorescent
☐ Hardness Tester		Dwell Timemin	Penetrant Dye
☐ Other		Developer Timemin	Other
* WELDS ACCEPTAB	E TO COUL,	9.5 mm WALL	ARAUX.
			Mirrary 1
A.M. P.M.	TOTAL HOURS KILOMETERS S.T. hrs.	SUBSISTENCE MAN DAY OT / MEALS	CONSUMABLES 1. CAN
TIME IN TIME OUT TIME IN TIME OUT	O.T. hrs. / 00		
TECHNICIAN(S) Interpretation is in accordance with the above mentioned Print: "T. "TDDD"			Sim Del Irdel
Ass't:	CGSB / SNT Level:	Heg. No.: 10030	Sign



ULTRASONIC INSPECTION REPORT

Date: AUG. 31/04 U-CG00					U-CG001					Page 1 of 1
CLIENT:	E.O.G. RE	SOURCES	CANADA							
LOCATIO	ON: 16-30-3	1-24W5M			PROJ	ECT: U.T. C	CORROSIO	N SURVEY	'	The second secon
ITEMS E	XAMINED:	VERTICA	L TREATER					100 STAN		
PROCED	URE:	la l	UT 1 S	ECTION 8	8	CLIENT P	O#/JOB#	1		
ACCEPT	ANCE CRITE	RIA; CL	IENT EVALU	JATION	000-0000	SPECIFIC	ATION: AS	ME V AR	Γ.5	
EQUIPM	ENT / S/N / C	AL, DATE:	KRAUTK	RAMER	DMS 2	S/N: 00YT4	J C	AL DATE:	AUG. 25/04	
	OCK(#*S): ½				COUPLA	NT: UT-X	CAE	LE LENG	ГН; 48"	
TEST PIE		Г	T-	CTOR: S.	D.H. Type:	┌ Size:	2mm Deptl	ı: 1/4 l	Response Ht:	- 80% FSH
	THICKNESS	: X		SI	HEAR WAVE:			LAM	NATION:	X
	ANGLE	WAVE	FREQ	SIZE	MFG.	S/N	RANGE	Ref. db	Scan db	TL db
1	0 Degree	Long.	5 MHz	.250"	Krautkramer	00YHI	1.000"	58db	+6	64
2										
3										
4										

TREATER A#218010

*A U.T. SCAN WAS PERFORMED USING A GRID ON THE WEST SIDE OF THE TREATER AS REQUESTED BY THE CLIENT. THIS GRID WAS LOCATED JUST ABOVE THE TRAY LEVEL AT THE MANWAY. RESULTS OF THE SCAN ARE PRESENTED ON PAGE 2 OF THIS REPORT. READINGS ARE TO BE FURTHER EVALUATED BY CLIENT.

RANDOM SCANS WERE ALSO PERFORMED ON THE EAST SIDE OF THE TREATER AS REQUESTED.

AVG: 0.280" LOW: 0.141"

THESE READINGS ARE TO BE FURTHER EVALUATED BY THE CLIENT. *INCLUSIONS WERE ALSO NOTED THROUGHOUT SCANNED AREAS OF THE SHELL.

	STAMP	Regular Hours	8 2	
200-200 V 2 - 10-10-10-10-10-10-10-10-10-10-10-10-10-1	CURTIS GRAHAM	Overtime Hours		
*******	CGSB RTII, MTII, PTII, UTI	Sub / Man Day		
	SNT RTII, MTII, PTII, UTI	Kilometers	300	
		Misc. Charges		
Client Representative DOUG DAVEY	Technician: CURTIS GRAHAM	Assistant DAVE HERNANDEZ		