

TAQA NORTH DATA EQUIP NO.: 603FB002

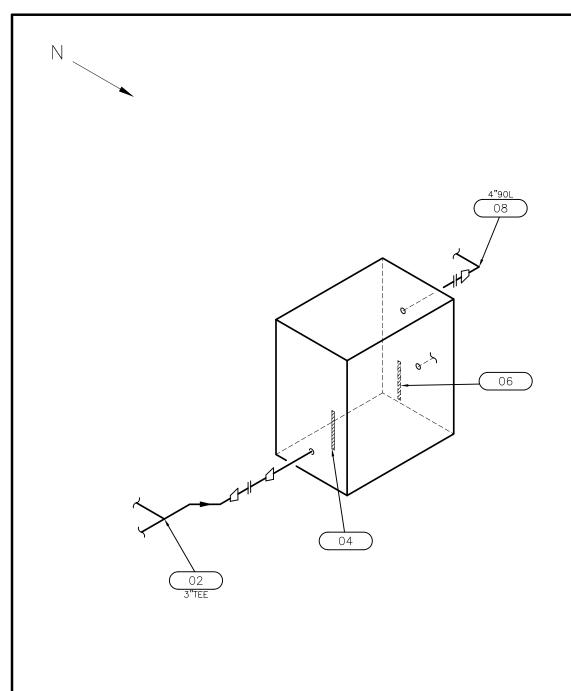
PRN: N/A

NAT'L BOARD#: N/A

CATEGORY:

RAMS ID TAG NO.: NEW

PLANT/FIELD: CHINCH.	AGA GAS PL	LANT		LSD:	: C-032-H / 094-H-08 LOCATION: GAS PLANT					
EQUIP. NAME: VOLCAN	NO BOILER				CLASS: FI	3		TYPE:	BOILER	
SERVICE: Sweet	Sour	H2S:	N/A	PPM	FLUID: GL	YCOL/NATUR	AL GAS	S/D REQT.:	□Yes □No □	Partial
OPERATING PRESSURE:	1103	3 🗵	kPa	□PSI	OPERATING TEMPERATURE: N/A □°C □°F					
OPERATING STATUS:	IN SERVIC	E No	t In Service	e	M/WAY(16"A	ND ABOVE):	⊠Yes [□No SIZ	E:	
MANUFACTURING I) A T A									
MFG.: VOLCANO		WG. NO.: 1	V/A		SERIAL NO	· 1148-F	VR B	BUILT: 19	98 STAMP: S	
CRN: L2867.51		DIV.: AS			PARA.: N		SUPP			N/A
						N/A □°C [□FT ³
FLANGE RATING: 300#			No □		IOGRAPHY:		\square RT2 \square 1			
	□inch.			LENGTH:	2743	⊠mm. □ir				□inch.
	Fiberglass				bestos Othe			LATION THK		inch.
SECTION			MATERIA			NOMINAL mi			C.A. mm	
SECTION MITTERINE										
N/A			N/A			N/A			N/A	
COMMENTS:										
TUBING DATA										
MAWP: N/A	_kPaPS	SI @ TE	EMP:	N/A Γ]°C □°F	TEMA CLAS	SS: N/A	TY	YPE: N/A	
N/A				N/A						
TUBE SIZE: N/A m	nm. 🔲 ID		NUMBER	(QTY OF TUBE	es): N/A	GAUGE (BW	'G): N/A	JOINT:	□Welded □R	olled
SECTION]	MATERIA	AL		NOMINAL 1	nm		C.A. mm	
N/A			N/A			N/A			N/A	
TRAY/PACKING DAT	ΓA									
TRAY TYPE: N/A		NUMB	ER (# OF TI	RAYS): N/A		PAG	CKING TYP	PE: N/A		
MATERIAL: N/A			FACTUR							
COATING/LINING/C	LADDING	G DATA								
AREA		TY	/PE			MATE	RIAL		YR. APPLI	ED
EXTERNAL:		EPO	OXY			N/	A		N/A	
INTERNAL:		N	/A			N/	A		N/A	
LINING:		N	/A			N/	A		N/A	
CLADDING:	CLADDING: N/A									
PRESSIDE DEL IEE I	PRESSURE RELIEF DEVICES DATA								No PSV	
EQUIP. NO.	_				not locate	CAPACITY			NITS/OTHER	
603SVFB002A	N/A		1034	⊠kPa	□PSI	4227	Песем	□ LB/hr.	GAL/min.	
603SVFB002A 603SVFB002B	N/A N/A		1034	⊠kPa ⊠kPa	□PSI			⊠LB/hr.	☐GAL/min.	
N/A	N/A N/A		N/A		□PSI	4227 N/A		□LB/hr.	☐GAL/min.	
11/74	IN/A	1	1 V/A	<u></u>	□1 31	11/71	□3CLIM	□₽₽/Ⅲ.		



Comments:



SER	RVICES
P.E. No.: <u>N/S</u>	Yr. Blt.: <u>1998</u>
OIP# <u>603FB002</u>	_ Manway: YES
Serial No.: <u>1148-E</u>	Size: <u>1524_X_2743mm</u>
P.R.N. ② <u>N/S</u>	_ Service: SWEET
C.R.N.: <u>L2867.51</u>	_ PWHT: NO
Code/Div.: N/S	_ RT: <u>N/S</u>
Para: <u>N/S</u>	_ Insulated: N/S
C. Stamp: S	N.B. No: <u>N/S</u>
Manufacturer: <u>VOLCANO</u>	
Design & Materials Data	
HEAD N. (C	SHELL
Material: N/S	
Nom.: N/S	
C.A.: N/S	_ C.A.: <u>N/S</u>
· · · — ·-	BOOT SHELL
Material:	
Nom.:	
C.A.:	_ C.A.:
CHANNEL HEAD Material:	CHANNEL SHELL
Nom.:	
C.A.:	
MAWP Shell Side: 2068 KPA	
MAWP Tube Side:	
WAWI Tube Side.	_
CLIENT	NORTH
·	
FACILITY	
CHINCHAGA	GAS PLANT
C-032-H/	′094-H-08
ITEM VOLCANO) BOILER
1	

DATE: 2008/04

BY: M.J.

DWG.# 135



TAQA North
Unit: N-603

FACILITY: CHINCHAGA GAS PLANT MANUFACTURER: VOLCANO

2068 kPa / LSD: C-032-H/094-H-08 DESIGN PRESSURE: 300 psi ITEM DESC.: 216 C 421 F **VOLCANO BOILER** DESIGN TEMP.: EQUIP / OIP#: 603FB002 RECOMMENDED NEXT INSP. DATE: 04/2013 PROV. REG. #: N/S RECOMMENDED RETIREMENT DATE: 06/2048 SERIAL #: 1148-E REM. LIFE (from last survey 04/2008): 40.10 yrs. CRN.: TOTAL CAUTION / ACTION TML: L2867.51 0

Item # (135)

TML No.: 2 3"TEE I/L 150 #

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 9.22 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 9.10 mm.

1.1111						1111111	1,101,1		D 1.12110	CILLE.				
Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item
2.01	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.10	0.000	0.000	04/2013	04/2808	NO
2.02	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.30	0.000	0.000	04/2013	12/2874	NO
2.03	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.30	0.000	0.000	04/2013	12/2874	NO
2.04	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.20	0.000	0.000	04/2013	08/2841	NO
2.05	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.20	0.000	0.000	04/2013	08/2841	NO

TML No.: 4 EAST MID SH T-B

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 2.93 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 2.90 mm.

Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item
4.01	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.02	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.03	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	3.00	0.000	0.000	04/2013	04/3008	NO
4.04	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	3.00	0.000	0.000	04/2013	04/3008	NO
4.05	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.06	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO



TAQA North
Unit: N-603

FACILITY: CHINCHAGA GAS PLANT MANUFACTURER: VOLCANO

LSD: C-032-H/094-H-08 DESIGN PRESSURE: 2068 kPa / 300 psi ITEM DESC.: 216 C VOLCANO BOILER DESIGN TEMP.: 421 F EQUIP / OIP#: RECOMMENDED NEXT INSP. DATE: 04/2013 603FB002 PROV. REG. #: N/S RECOMMENDED RETIREMENT DATE: 06/2048 SERIAL #: 1148-E REM. LIFE (from last survey 04/2008): 40.10 yrs. TOTAL CAUTION / ACTION TML: CRN.: L2867.51 0

Item # (135)

TML No.: 6 WEST BTM SH T-B

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 2.98 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 2.90 mm.

Pts. Nom. Corr. B/L B/L **TML TML** Min. Prev. Prev. Last Last Short Long Thick. Allow. Thick. Survey Survey Survey Survey Survey Survey Term Term Insp. Retire. Action/Caution Date Date Date Rate Rate Due Date Required Item mm/yyyy mm/yyyy mm/yyyy 0.00 6.01 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 6.02 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 6.03 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 0.00 N/A N/A 3.00 04/3008 6.04 0.00 0.00N/A N/A 04/2008 0.000 0.000 04/2013 NO 6.05 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 2.90 12/2974 6.06 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 0.000 0.000 04/2013 NO

TML No.: 8 4"90L N-W 150 #

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 5.83 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 5.70 mm.

Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item	
8.01	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.70	0.000	0.028	04/2013	08/2022	NO	*
8.02	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.03	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.80	0.000	0.020	04/2013	11/2032	NO	*
8.04	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.05	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.06	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.80	0.000	0.020	04/2013	11/2032	NO	*



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natura	al Resources Canada Inc.	LSD: BC C-32-H/94-	H-8						
Area/Facility:	Chinchaga Ga	s Plant	Inspection Date 06-Feb-02	Interval: 2 yrs						
Vessel Name:	Heat Medium E	Boiler	A No: BC	MTL No: BLR179						
Internal Coating Ty	pe:		Next External: 2/6/2003	Next Internal: Feb, 2004						
Vessel Orientation		100 000 000 000	Internal Coating Lining: 0							
Vessel Type:	Heating Boile	er	Fluid Type:							
Tag No:			Serial Number: 1143-E							
Separator Type:			Business Unit:							
Direct Fired Vessel	: N/A	Fired Tube:	Cost Centre:							
Current Status:	In Service	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flame Arrester Date Required:	Date						
Thermal Insulation:	No		Asbestos: No							

PRESSURE VESSEL NAMEPLATE INFORMATION

MTL Number:	BLR179	Volume:		CRN Number:			Reg	gistered: No
Serial Number:	1143-E	- ·		Size:	in	×	0 ft	0 in
Drawing Number:				P & ID Number:				
Shell Material:					In			
Onen Material.					ln in			
Head Material:					Head	Thickness:		In
ricad Material.	_			In				
Tube Material:		1	ube Size(OD):	În	Tube	Thickness:	-	În
Tubesheet Material:					Tubesheet	Thickness:		In
Channel Material:			Channel Type:		Channel	Thickness:		ln
Design Pressure:	Shell:	300 ps	i	Operating Pressu	ıre:	Shell:		psi
	Tube:	ps				Tube:		psi
Design Temperature:	Shell:	421 F		Operating Tempe	erature:	Shell:		F
	Tube:	F		operating rempe		Tube:		F
RT (XRay):				Heat Treatment:	No			
Code Parameters:				Joint Efficiency:				
Manufacturer:	Volcano Boilers			Year Built:	1998			
Corrosion Allowance:				Manway:	No			



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natural Resources Canada Inc.	LSD:	ВС	C-32-H/94-H	1-8
Area/Facility:	Chinchaga Gas Plant	Inspection	Date	06-Feb-02	Interval: 2 yrs
Vessel Name:	Heat Medium Boiler	A No: E	BC		MTL No: BLR179

	VESSEL SHELL / HEADS / PIPING
External / Instrumentation	Condition
The cladding appears in goo condition with no evidence of	d condition. There was numerous NPT leaks noted on burner end and at PSV location. The paint was also in good f corrosion. The associated instrumentaion appears to be in good working order.
Internal Condition	
No internal access	
Nozzle Condition	
Not Applicable	
Flange Condition	
Not Applicable	
Internal Piping	Not Applicable
External Piping	The paint is heat chalked. The pipe supports on B.W. and NPT piping appears to be in good condition. The flange bolting and gaskets also appeared in good condition with no signs of corrosion or mechanical damage.
Pipe Support Condition	All of the supports are in place, secure and functioning properly.
Bolting Condition	The associated bolting and gaskets were in place and appeared to be tight.
Firetube Condition	
Not Applicable	
Demister Pad Condition	
Not Applicable	
Anode Condition	
Not Applicable	
Vessel Support	
The skid assembly is welded	to the skid floor.



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natural Resources Canada Inc.	LSD: B	C C-32-H/94-	H-8
Area/Facility:	Chinchaga Gas Plant	Inspection Date	9 06-Feb-02	Interval: 2 yrs
Vessel Name:	Heat Medium Boiler	A No: BC		MTL No: BLR179

VESSEL COATING INSPECTION Type of Coating Coating Manufactuer and Type Location Coating Condition **VESSEL NONDESTRUCTIVE TESTING** NDE Type Location of Test Contractors Name Qualifications Last UT Survey Date Interval 2 yrs **Next UT Date:** Survey By Test Results **VESSEL STATUS** Suitable for Further Service? Yes Repairs Required? No Owners Representative Repairs Completed? Owners Date Repairs Completed By Repair Date Repair leaks on NPT external piping. Repeat UT corrosion survey at next T/A. Recommendations Next PSV servicing in 3 years. Details of Repairs



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Сотрапу:	Pioneer Natural Resources Canada Inc.	LSD: BC	C-32-H/94-H	1-8
Area/Facility:	Chinchaga Gas Plant	Inspection Date	06-Feb-02	Interval: 2 yrs
Vessel Name:	Heat Medium Boiler	A No: BC		MTL No: BLR179

9.00			PSV E	DATA			
Side	Set Pressure psi	CRN Number	Manufacturer PSV Number	Model Serial Number	Capacity	Size Inches	Set Date
	150		Kunkle PNR191	927BGFM01-BG		1.25 × 2	Dec/1999

Sweet Glycol	

Name (Printed)		Si	gnature	Date
Visual Inspector Paul Gorman	API510	Disaska	for Paul &	February 06, 2002
QA Supervisor: (Chief Inspector)			0	
QA Administrator:				
ABSA Inspector:				

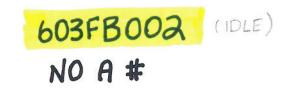


INSPECTION REPORT

EQUIPMENT NO: 603FB002			Page of
FACILITY: Chinchaga Gas Plant		PROV. REG. N0:	
EQUIPMENT NAME: Volcano Boiler		TAG NO:	
SIZE: 1524mm x 2743mm L/	/H 2134mm	MAWP: 2068	kPa @ 216 °C
LSD : C-032-H / 094-H-08		MANWAY 🛚 YES	□ NO
SERVICE:	FLUID: Natural Gas	/ Glycol	
☐ SOUR ☐ SWEET ☐ CRYOGENIC			
SCOPE OF INSPECTION TYPE OF INSPE	CTION:	CLEANING: GOOD	ACCESS: □ FULL
	□ IXI	☐ FAIR	☐ PARTIAL
☐ REINSPECTION ☐ LT ☐ PT	⊠ VT	☐ INADEQUATE	
☐ OTHER			
DI FACE ADD DACES AND SI	ZETOUES AS NEED	OFD /TUDN OVER FOR SVETCU)	
OBSERVATIONS: EXTERNAL	VETCHES AS NEED	DED (TURN OVER FOR SKETCH)	
1. LADDERS, STAIRWAYS, PLATFORMS AND WALKWAYS	s 🕅		
2. FOUNDATIONS AND SUPPORTS ⊠	0 🔼		
3. NOZZLES ⊠			
4. GROUNDING CONNECTIONS ⊠			
5. PROTECTIVE COATINGS AND INSULATION ☑ Epoxy			
6. EXTERNAL METAL SURFACES ⊠ Good			
7. FANS AND OTHER ANCILLARY EQUIPMENT ☐ N/A			
8. PRESSURE RELIEF DEVICES ⊠			
9. NAME PLATE ⊠			
10. ULTRASONIC INSPECTION SURVEY 🛛			
11. INSPECTION REPORT COMPLETED ☑			
12. NON CONFORMANCE COMPLETED ☐ N/A			
13. OIP LABEL APPLIED ☑			
14. PICTURE ON FILE ⊠			
COMMENTS CHECKED BOX INDICATES ACCEPTANCE			
RECOMMENDATIONS:			
NEGOMMENDATIONS.			
SUITABLE FOR	REMEDIAL	ACTION	
FURTHER SERVICE: ☐ YES ☐ NO	PRIORITY:	☐ HIGH ☐ ME	EDIUM LOW
INSPECTION PERFORMED BY: Mark Tomko		DATE OF INSPECTION	22 04 2008 (DD MONTH YYYY)
FOLLOW-UP INSPECTION REQ'D:	☐ YES 🖾	NO BY DATE:	(DD MONTH VVVV)

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505 - 6th Street, Suite 200 New Westminster, BC V3L 0E1

> Toll Free: 1-866-566-SAFE Fax: (778) 396 - 2064 www.safetyauthority.ca

BOILER, PRESSURE VESSEL AND REFRIGERATION OPERATING PERMIT

Expiry Month/Year Jul 2011

Granted To

TAQA NORTH Attn: ACCOUNTS PAYABLE 5100-150 6TH AVENUE SW CALGARY AB T2P 3Y7

Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 ✓ FORT ST JOHN BC

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

POST IN BOILER ROOM OR MACHINERY ROOM

PURSUANT AND SUBJECT TO THE SAFETY STANDARDS ACT AND REGULATIONS:

A PERSON MUST NOT OPERATE A BOILER, PRESSURE VESSEL OR REFRIGERANT PLANT UNLESS THE OWNER HOLDS A VALID CERTIFICATE OF INSPECTION AND AN OPERATING PERMIT.



505 - 6th Street, Suite 200 New Westminster, BC V3L 0E1 Local Phone: 778-396-2000 Local Fax: 778-396-2174

Toll Free: 1-866-566-SAFE (7233) Toll Free Fax: 1-888-660-3508

www.safetyauthority.ca

BOILER, PRESSURE VESSEL AND REFRIGERATION OPERATING PERMIT

Expiry Month/Year Jul 2012

Granted To

TAQA NORTH LTD Attn: ACCOUNTS PAYABLE P O BOX 2350 STN M CALGARY AB T2P 2M6



Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 FORT ST JOHN BC

IDLE

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

603FB002 @ SAME 4SD

POST IN BOILER ROOM OR MACHINERY ROOM

PURSUANT AND SUBJECT TO THE SAFETY STANDARDS ACT AND REGULATIONS:

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505 - 6th Street. Suite 200 New Westminster, BC V3L 0E1 Local Phone: 778-396-2000 Local Fax: 778-396-2174 Toll Free: 1-866-566-SAFE (7233) Toll Free Fax: 1-888-660-3508 www.safetyauthority.ca

BOILER, PRESSURE VESSEL AND REFRIGERATION OPERATING PERMIT

Expiry Month/Year Jul 2013

Granted To

TAQA NORTH LTD Attn: ACCOUNTS PAYABLE P O BOX 2350 STN M CALGARY AB T2P 2M6

Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 FORT ST JOHN BC

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

POST IN BOILER ROOM OR MACHINERY ROOM

PURSUANT AND SUBJECT TO THE SAFETY STANDARDS ACT AND REGULATIONS:

A PERSON MUST NOT OPERATE A BOILER, PRESSURE VESSEL OR REFRIGERANT PLANT UNLESS THE OWNER HOLDS A VALID CERTIFICATE OF INSPECTION AND AN OPERATING PERMIT.

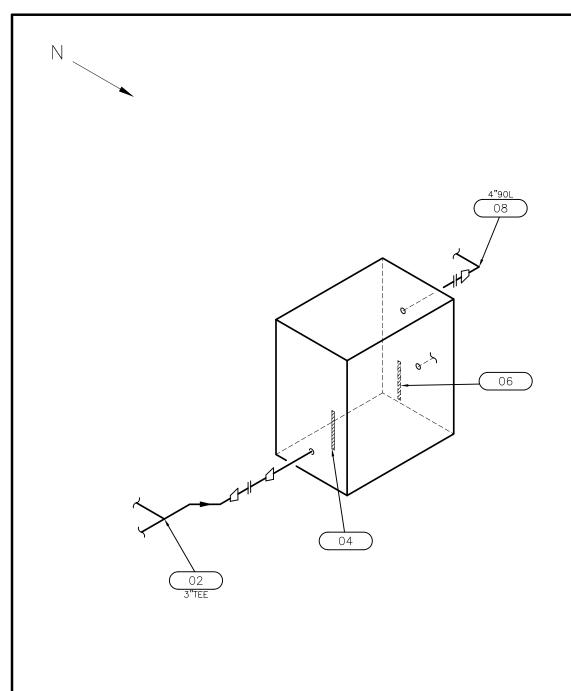
603 FB00 2



TAQA NORTH DATA

EQUIPMENT STATIC DATA FORM

PLANT/FIELD: CHINC																
TEANT/FIELD. CHINC	HAGA GAS PLAN	Γ	LSD: C	C-032-H / 094-	-H-08 LC	CATION:	GAS PI	LANT								
EQUIP. NAME: VOLCA	ANO BOILER		CL	ASS: FB			TYPE:	BOILER								
SERVICE: Sweet	□Sour H2	S: N/A PP	M FL	UID: GLYC	COL/NATURAL	GAS S/I	O REQT.:	□Yes □No	Partial							
OPERATING PRESSURE:	1103	⊠kPa □	PSI OP	OPERATING TEMPERATURE:				□°C	□°F							
OPERATING STATUS:	□IN SERVICE	⊠Not In Service	M/	WAY(16"AND	ABOVE):	Yes 🔲	No SIZ	Œ:								
MANUELCEUDING	DATA															
MANUFACTURING						YR. BUILT: 1998 STAM			_							
MFG.: VOLCANO		NO.: N/A		RIAL NO.:	1148-E	_										
CRN: L2867.51	CODE/DIV.			RA.: N/A		SUPPOI			N/A							
MAWP: 2068 KPa	PSI @ TEN			DMT: N/A					□FT³							
FLANGE RATING: 300#	PWHT:			GRAPHY: [RT2 RT										
SIZE: 1524 Mmm.	inch.		NGTH:		⊠mm. □inch				□inch.							
INSULATION TYPE:	∐Fiberglass ∐	Wool Low Temp	∐Asbes	stos Other:		INSULA	ATION THE		n 🔲 inch.							
SECTION		MATERIAL		NC	OMINAL mm			C.A. mm								
27/4		NT/ 4			NT/A			NT/ 4								
N/A		N/A			N/A			N/A								
COMPANITO																
COMMENTS:																
TUBING DATA																
N/A		N/A														
MAWP: N/A	□kPa □PSI	@ TEMP:		C □°F	TEMA CLASS:	N/A	T	YPE: N/A								
TUBE SIZE: N/A	mm. 🔲 ID	OD NUMBER (QTY	OF TUBES):	N/A	GAUGE (BWG)	: N/A	JOINT:	□Welded □	Rolled							
SECTION		MATERIAL		NOMINAL mm				C.A. mm								
N/A		N/A			N/A	N/A										
1																
TDAV/DACKING DA	ТА			TDAW/DACIZING DATA												
TRAY/PACKING DA		MIIMDED (# OF TRANS	. N/A		DA CV	INC TVDE	. NI/A									
TRAY TYPE: N/A		NUMBER (# OF TRAYS			PACK	ING TYPE	: N/A									
		NUMBER (# 0F TRAYS) MANUFACTURER:			PACK	ING TYPE	: N/A									
TRAY TYPE: N/A		MANUFACTURER:			PACK	ING TYPE	: N/A									
TRAY TYPE: N/A MATERIAL: N/A		MANUFACTURER:			PACK MATERI		: N/A	YR. APP	LIED							
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/O		MANUFACTURER:					: N/A	YR. APP								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA		MANUFACTURER: ATA TYPE			MATERI		: N/A									
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL:		MANUFACTURER: ATA TYPE EPOXY			MATERI N/A		: N/A	N/A								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL:		MANUFACTURER: ATA TYPE EPOXY N/A			MATERI N/A N/A		: N/A	N/A N/A								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL: LINING: CLADDING:	CLADDING DA	MANUFACTURER: ATA TYPE EPOXY N/A N/A N/A	N/A		MATERI N/A N/A			N/A N/A N/A								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL: LINING: CLADDING: PRESSURE RELIEF	CLADDING DA	MANUFACTURER: ATA TYPE EPOXY N/A N/A N/A	N/A	ot located	MATERI N/A N/A N/A			N/A N/A N/A No PSV								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL: LINING: CLADDING: PRESSURE RELIEF EQUIP. NO.	DEVICES DATAG NO.	MANUFACTURER: ATA TYPE EPOXY N/A N/A N/A S	N/A PSV n ET	CA	MATERI N/A N/A N/A	AL	□I CAP UN	N/A N/A N/A N/A NO PSV NITS/OTHER								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL: LINING: CLADDING: PRESSURE RELIEF EQUIP. NO. 603SVFB002A	DEVICES DA' TAG NO. N/A	MANUFACTURER: ATA TYPE EPOXY N/A N/A N/A TA [S 1034	N/A PSV note ET kPa	CA PSI	MATERI N/A N/A N/A APACITY 4227	AL SCFM	□]I CAP UN ⊠LB/hr.	N/A N/A N/A N/A NO PSV NITS/OTHER GAL/min.								
TRAY TYPE: N/A MATERIAL: N/A COATING/LINING/C AREA EXTERNAL: INTERNAL: LINING: CLADDING: PRESSURE RELIEF EQUIP. NO.	DEVICES DATAG NO.	MANUFACTURER: ATA TYPE EPOXY N/A N/A N/A TA [1034 1034	N/A PSV n ET kPa kPa kPa	CA	MATERI	AL	□l CAP UN ⊠LB/hr.	N/A N/A N/A N/A NO PSV NITS/OTHER								



Comments:



SER	RVICES
P.E. No.: <u>N/S</u>	Yr. Blt.: <u>1998</u>
OIP# <u>603FB002</u>	_ Manway: YES
Serial No.: <u>1148-E</u>	Size: <u>1524_X_2743mm</u>
P.R.N. ② <u>N/S</u>	_ Service: SWEET
C.R.N.: <u>L2867.51</u>	_ PWHT: NO
Code/Div.: N/S	_ RT: <u>N/S</u>
Para: <u>N/S</u>	_ Insulated: N/S
C. Stamp: S	N.B. No: <u>N/S</u>
Manufacturer: <u>VOLCANO</u>	
Design & Materials Data	
HEAD N. (C	SHELL
Material: N/S	
Nom.: N/S	
C.A.: N/S	_ C.A.: <u>N/S</u>
· · · — ·-	BOOT SHELL
Material:	
Nom.:	
C.A.:	_ C.A.:
CHANNEL HEAD Material:	CHANNEL SHELL
Nom.:	
C.A.:	
MAWP Shell Side: 2068 KPA	
MAWP Tube Side:	
WAWI Tube Side.	_
CLIENT	NORTH
·	
FACILITY	
CHINCHAGA	GAS PLANT
C-032-H/	′094-H-08
ITEM VOLCANO) BOILER
1	

DATE: 2008/04

BY: M.J.

DWG.# 135



TAQA North
Unit: N-603

FACILITY: CHINCHAGA GAS PLANT MANUFACTURER: VOLCANO

2068 kPa / LSD: C-032-H/094-H-08 DESIGN PRESSURE: 300 psi ITEM DESC.: 216 C 421 F **VOLCANO BOILER** DESIGN TEMP.: EQUIP / OIP#: 603FB002 RECOMMENDED NEXT INSP. DATE: 04/2013 PROV. REG. #: N/S RECOMMENDED RETIREMENT DATE: 06/2048 SERIAL #: 1148-E REM. LIFE (from last survey 04/2008): 40.10 yrs. CRN.: TOTAL CAUTION / ACTION TML: L2867.51 0

Item # (135)

TML No.: 2 3"TEE I/L 150 #

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 9.22 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 9.10 mm.

1.1111						1111111	1,101,1		D 1.12110	CILLE.				
Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item
2.01	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.10	0.000	0.000	04/2013	04/2808	NO
2.02	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.30	0.000	0.000	04/2013	12/2874	NO
2.03	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.30	0.000	0.000	04/2013	12/2874	NO
2.04	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.20	0.000	0.000	04/2013	08/2841	NO
2.05	7.60	0.90	6.70	01/1998	7.60	N/A	N/A	04/2008	9.20	0.000	0.000	04/2013	08/2841	NO

TML No.: 4 EAST MID SH T-B

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 2.93 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 2.90 mm.

Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item
4.01	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.02	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.03	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	3.00	0.000	0.000	04/2013	04/3008	NO
4.04	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	3.00	0.000	0.000	04/2013	04/3008	NO
4.05	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO
4.06	0.00	0.00	0.00	N/A	N/A	N/A	N/A	04/2008	2.90	0.000	0.000	04/2013	12/2974	NO



TAQA North
Unit: N-603

FACILITY: CHINCHAGA GAS PLANT MANUFACTURER: VOLCANO

LSD: C-032-H/094-H-08 DESIGN PRESSURE: 2068 kPa / 300 psi ITEM DESC.: 216 C VOLCANO BOILER DESIGN TEMP.: 421 F EQUIP / OIP#: RECOMMENDED NEXT INSP. DATE: 04/2013 603FB002 PROV. REG. #: N/S RECOMMENDED RETIREMENT DATE: 06/2048 SERIAL #: 1148-E REM. LIFE (from last survey 04/2008): 40.10 yrs. TOTAL CAUTION / ACTION TML: CRN.: L2867.51 0

Item # (135)

TML No.: 6 WEST BTM SH T-B

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 2.98 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 2.90 mm.

Pts. Nom. Corr. B/L B/L **TML TML** Min. Prev. Prev. Last Last Short Long Thick. Allow. Thick. Survey Survey Survey Survey Survey Survey Term Term Insp. Retire. Action/Caution Date Date Date Rate Rate Due Date Required Item mm/yyyy mm/yyyy mm/yyyy 0.00 6.01 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 6.02 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 6.03 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 0.00 N/A N/A 3.00 04/3008 6.04 0.00 0.00N/A N/A 04/2008 0.000 0.000 04/2013 NO 6.05 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 3.00 0.000 0.000 04/2013 04/3008 NO 2.90 12/2974 6.06 0.00 0.00 0.00 N/A N/A N/A N/A 04/2008 0.000 0.000 04/2013 NO

TML No.: 8 4"90L N-W 150 #

DATE BUILT: 01/1998 AVERAGE THICKNESS MEASURED: 5.83 mm.
MATERIAL: MINIMUM THICKNESS MEASURED: 5.70 mm.

Pts.	Nom. Thick.	Corr. Allow.	Min. Thick.	B/L Survey Date mm/yyyy	B/L Survey	Prev. Survey Date mm/yyyy	Prev. Survey	Last Survey Date mm/yyyy	Last Survey	Short Term Rate	Long Term Rate	TML Insp. Due	TML Retire. Date	Action/Caution Required Item	
8.01	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.70	0.000	0.028	04/2013	08/2022	NO	*
8.02	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.03	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.80	0.000	0.020	04/2013	11/2032	NO	*
8.04	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.05	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.90	0.000	0.010	04/2013	05/2067	NO	*
8.06	6.00	0.70	5.30	01/1998	6.00	N/A	N/A	04/2008	5.80	0.000	0.020	04/2013	11/2032	NO	*



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natura	al Resources Canada Inc.	LSD: BC C-32-H/94-H-8						
Area/Facility:	Chinchaga Ga	s Plant	Inspection Date 06-Feb-02	Interval: 2 yrs					
Vessel Name:	Heat Medium E	Boiler	A No: BC	MTL No: BLR179					
Internal Coating Ty	pe:		Next External: 2/6/2003	Next Internal: Feb, 2004					
Vessel Orientation		100 000 000 000	Internal Coating Lining: 0						
Vessel Type:	Heating Boile	er	Fluid Type:						
Tag No:			Serial Number: 1143-E						
Separator Type:			Business Unit:						
Direct Fired Vessel	: N/A	Fired Tube:	Cost Centre:						
Current Status:	In Service	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Flame Arrester Date Required:	Date					
Thermal Insulation:	No		Asbestos: No						

PRESSURE VESSEL NAMEPLATE INFORMATION

MTL Number:	BLR179	Volume:		CRN Number:			Reg	gistered: No	
Serial Number:	1143-E	- ·		Size:	in	×	0 ft	0 in	
Drawing Number:				P & ID Number:					
Shell Material:					In				
Onen Material.					Shell	Thickness:		ln in	
Head Material:						In			
ricad Material.	_					In			
Tube Material:		ube Size(OD):	În	TubeThickness:			ln .		
Tubesheet Material:	-11				Tubesheet Thickness:				
Channel Material:			Channel Type:		Channel		ln		
Design Pressure:	Shell:	300 psi		Operating Pressure:		Shell:		psi	
	Tube:	ps				Tube:		psi	
Design Temperature:	Shell:	421 F		Operating Tempe	erature:	Shell:		F	
	Tube:	F		operating rempe		Tube:		F	
RT (XRay):				Heat Treatment:	No				
Code Parameters:				Joint Efficiency:					
Manufacturer:	Volcano Boilers		Year Built:	1998					
Corrosion Allowance:				Manway:	No				



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natural Resources Canada Inc.	LSD:	ВС	C-32-H/94-H	1-8
Area/Facility:	Chinchaga Gas Plant	Inspection	Date	06-Feb-02	Interval: 2 yrs
Vessel Name:	Heat Medium Boiler	A No: E	BC		MTL No: BLR179

	VESSEL SHELL / HEADS / PIPING
External / Instrumentation	Condition
The cladding appears in goo condition with no evidence of	d condition. There was numerous NPT leaks noted on burner end and at PSV location. The paint was also in good f corrosion. The associated instrumentaion appears to be in good working order.
Internal Condition	
No internal access	
Nozzle Condition	
Not Applicable	
Flange Condition	
Not Applicable	
Internal Piping	Not Applicable
External Piping	The paint is heat chalked. The pipe supports on B.W. and NPT piping appears to be in good condition. The flange bolting and gaskets also appeared in good condition with no signs of corrosion or mechanical damage.
Pipe Support Condition	All of the supports are in place, secure and functioning properly.
Bolting Condition	The associated bolting and gaskets were in place and appeared to be tight.
Firetube Condition	
Not Applicable	
Demister Pad Condition	
Not Applicable	
Anode Condition	
Not Applicable	
Vessel Support	
The skid assembly is welded	to the skid floor.



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Company:	Pioneer Natural Resources Canada Inc.	LSD: B	C C-32-H/94-	H-8
Area/Facility:	Chinchaga Gas Plant	Inspection Date	9 06-Feb-02	Interval: 2 yrs
Vessel Name:	Heat Medium Boiler	A No: BC		MTL No: BLR179

VESSEL COATING INSPECTION Type of Coating Coating Manufactuer and Type Location Coating Condition **VESSEL NONDESTRUCTIVE TESTING** NDE Type Location of Test Contractors Name Qualifications Last UT Survey Date Interval 2 yrs **Next UT Date:** Survey By Test Results **VESSEL STATUS** Suitable for Further Service? Yes Repairs Required? No Owners Representative Repairs Completed? Owners Date Repairs Completed By Repair Date Repair leaks on NPT external piping. Repeat UT corrosion survey at next T/A. Recommendations Next PSV servicing in 3 years. Details of Repairs



DETAIL VESSEL AND PIPING INSPECTION REPORT

(Imperial)

GENERAL PRESSURE VESSEL INFORMATION

Сотрапу:	Pioneer Natural Resources Canada Inc.	LSD:	вс	C-32-H/94-H	l-8		
Area/Facility:	Chinchaga Gas Plant	Inspection Date 06-Feb-02		06-Feb-02	Interval:	2 yrs	
Vessel Name:	Heat Medium Boiler	A No: B	С		MTL No:	BLR179	

N. STORY	LT LL L		PSV E	DATA			
Side	Set Pressure psi	CRN Number	Manufacturer PSV Number	Model Serial Number	Capacity	Size Inches	Set Date
	150		Kunkle PNR191	927BGFM01-BG		1.25 × 2	Dec/1999

AND THE RESERVE OF THE PARTY OF	CURRENT VESSEL PROCESS CONDITIONS	
Sweet Glycol		

Name (Printed)		Si	gnature	Date
Visual Inspector Paul Gorman	API510	Disele	for Paul Go	February 06, 2002
QA Supervisor: (Chief Inspector)			0	
QA Administrator:				
ABSA Inspector:				

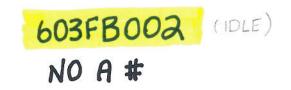


INSPECTION REPORT

EQUIPMENT NO: 603FB002			Page of
FACILITY: Chinchaga Gas Plant		PROV. REG. N0:	
EQUIPMENT NAME: Volcano Boiler		TAG NO:	
SIZE: 1524mm x 2743mm L/H LSD: C-032-H / 094-H-08	2134mm	MAWP: 2068 MANWAY ⊠ YES	kPa @ 216 °C □ NO
SERVICE: FL	.UID: Natural Gas	/ Glycol	
SOUR SWEET CRYOGENIC SCOPE OF INSPECTION TYPE OF INSPECT	TION:	CLEANING:	ACCESS:
	RT	☐ GOOD	☐ FULL
	₫ UT	☐ FAIR	☐ PARTIAL
☐ REINSPECTION ☐ LT ☐ PT ☑ ☐ OTHER	∆ VT	□ INADEQUATE	⊠ EXTERNAL
PLEASE ADD PAGES AND SKE	TCHES AS NEEL	DED (TURN OVER FOR SKETCH)	
OBSERVATIONS: ⊠ EXTERNAL			
LADDERS, STAIRWAYS, PLATFORMS AND WALKWAYS			
2. FOUNDATIONS AND SUPPORTS ☑			
3. NOZZLES ⊠			
4. GROUNDING CONNECTIONS ⊠			
5. PROTECTIVE COATINGS AND INSULATION ☑ Epoxy			
6. EXTERNAL METAL SURFACES ⊠ Good			
7. FANS AND OTHER ANCILLARY EQUIPMENT ☐ N/A			
8. PRESSURE RELIEF DEVICES ⊠			
9. NAME PLATE ⊠			
10. ULTRASONIC INSPECTION SURVEY 🛛			
11. INSPECTION REPORT COMPLETED ☑			
12. NON CONFORMANCE COMPLETED ☐ N/A 13. OIP LABEL APPLIED ☒			
14. PICTURE ON FILE ☑ COMMENTS			
CHECKED BOX INDICATES ACCEPTANCE			
RECOMMENDATIONS:			
SUITABLE FOR	REMEDIAL	ACTION	
FURTHER SERVICE: YES NO	PRIORITY:		EDIUM LOW
INSPECTION PERFORMED BY: Mark Tomko	. ruorur I.	DATE OF INSPECTION	22 04 2008
FOLLOW-UP INSPECTION REQ'D:	☐ YES ☒	NO BY DATE:	(DD MONTH YYYY)
			(DD MONTH YYYY)

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505 - 6th Street, Suite 200 New Westminster, BC V3L 0E1

> Toll Free: 1-866-566-SAFE Fax: (778) 396 - 2064 www.safetyauthority.ca

BOILER, PRESSURE VESSEL AND REFRIGERATION OPERATING PERMIT

Expiry Month/Year Jul 2011

Granted To

TAQA NORTH Attn: ACCOUNTS PAYABLE 5100-150 6TH AVENUE SW CALGARY AB T2P 3Y7

Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 ✓ FORT ST JOHN BC

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

POST IN BOILER ROOM OR MACHINERY ROOM

PURSUANT AND SUBJECT TO THE SAFETY STANDARDS ACT AND REGULATIONS:

A PERSON MUST NOT OPERATE A BOILER, PRESSURE VESSEL OR REFRIGERANT PLANT UNLESS THE OWNER HOLDS A VALID CERTIFICATE OF INSPECTION AND AN OPERATING PERMIT.



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Toll Free: 1-866-566-SAFE (7233) Toll Free Fax: 1-888-660-3508

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Expiry Month/Year Jul 2012

Granted To

TAQA NORTH LTD Attn: ACCOUNTS PAYABLE P O BOX 2350 STN M CALGARY AB T2P 2M6



Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 FORT ST JOHN BC

IDLE

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

603FB002 @ SAME 4SD

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BOILER, PRESSURE VESSEL AND REFRIGERATION OPERATING PERMIT

Expiry Month/Year Jul 2013

Granted To

TAQA NORTH LTD Attn: ACCOUNTS PAYABLE P O BOX 2350 STN M CALGARY AB T2P 2M6

Address:

PIONEER RESOURCES CHINCHAGA CHINCHAGA C-32-H/94-H-8 FORT ST JOHN BC

Unit ID:

HW82608

Class:

Hot Water Boiler

Type:

Watertube

Unit Name/Equipment ID: TF 200HP C-32-H/94-H-8

Serial Number:

1148-E

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603 FB00 2