

1060-04

Canadian Natural Resources Limited  
Production - Facilities Engineering  
A0496010 Horizontal Knockout Tank Certificate of  
Inspection and Manufacturers Data Report

Content Date Range: 7/14/2003 to 7/14/2003

Vessel Integrity

Inspection Data

Open: 2/6/2007 Close: P

CC+2 OP P



00763942

Vital: Yes  
Original: Yes  
Confidential: No

CLK ✓

# Certificate of Inspection

**ANADARKO CANADA CORPORATION**  
PO BOX 2595 STN M  
425-1 STREET SW  
ATTN TERRY MCCONNELL  
CALGARY, AB  
T2P 4V4

PREFERRED RE-INSP. INTERVAL: 2.00 Yr.

YEAR BUILT: 2003

CRN: K2109.2

SERIAL #: 12981

VOLUME: 18.519 M3

HEATING SURFACE:

SURFACE AREA:

COMPANY CODE:

DESCRIPTION: HORIZONTAL KNOCKOUT TANK

LOCATION: STOCK, INNISFAIL (BILTON YARD)

MANUFACTURER: BILTON WELDING & MANUFACTURING LTD

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
VESSEL	345 KPA	93 C	-29 C	SV1			TO BE INSTALLED

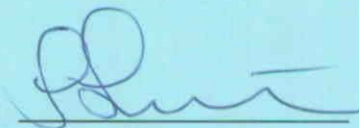
**OWNER INSTRUCTIONS/REMARKS:**

CONTACT THE ABSA SAFETY CODES OFFICER BEFORE PLACING THE VESSEL/BOILER IN SERVICE.

VESSEL/BOILER TO BE INSTALLED IN ACCORDANCE WITH THE SAFETY CODES ACT AND REGULATIONS.

VERIFY THAT VESSEL/BOILER IS PROTECTED BY AN ACCEPTABLE ASME CODE PRESSURE RELIEF VALVE, OF ADEQUATE CAPACITY, SET AT NO MORE THAN MAXIMUM PRESSURE AUTHORIZED AND INSTALLED IN ACCORDANCE WITH THE SAFETY CODES ACT & REGULATIONS.

**Safety Codes Officer:** LICHTENWALD, LARRY

**Signature:** 

**REQUIREMENTS OF THE SAFETY CODES ACT AND THE REGULATIONS ISSUED THEREUNDER:**

The owner or person in charge shall report all accidents involving a boiler, pressure vessel or pressure piping system to the district Safety Codes Officer immediately and shall send a full report in writing to the Administrator as required by the Act. No repairs or alterations may be made unless authorized by a Safety Codes Officer.

**ALBERTA MUNICIPAL AFFAIRS**

Alberta Boilers Safety Association

200, 4208 - 97 Street

Edmonton AB T6E 5Z9

Partial/ Partiel

(A) 496010

**MANUFACTURER'S DATA REPORT**

**FOR PRESSURE VESSEL**

**DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR**

**D'APPAREILS SOUS PRESSION**

On shipment of a pressure vessel, this form fully and correctly filled in must be mailed to the office of the Chief Inspector in the province of installation in accordance with the regulations under the Act, governing the construction and installation of pressure vessels.

Au moment de l'expédition d'un appareil sous pression, ce formulaire complété correctement, doit être envoyé au bureau de l'inspecteur en chef de la province d'installation tel que prévu dans les règlements de la loi sur les appareils sous pression.

<b>Manufactured by Construit par</b>	Name and address of Manufacturer/ Nom et adresse du constructeur <b>Bilton Welding &amp; Manufacturing Ltd 3704-58 Ave, Innisfail, AB T4G 1S8</b>
<b>Manufactured for Construit pour</b>	Name and address of Purchaser or Consignee/ Nom et adresse du client ou de son représentant <b>Anadarko Canada Corporation 425-1 Street S.W., Calgary, AB T2P 4V4</b>
<b>Ultimate owner Utilisateur</b>	Name and address/ Nom et adresse <b>Anadarko Canada Corporation 425-1 Street S.W., Calgary, AB T2P 4V4</b>
<b>Location of installation Lieu d'installation</b>	Address/ Adresse <b>Stock- Manufacturers yard pending move</b>

**Pressure vessel/ Appareil**

Type/ Genre <b>Horizontal Knockout Tank</b>	Overall Length/ Longueur totale <b>10'-0"</b>	Serial No./ N° de série <b>12981</b>	Year built/ Année de fabrication <b>2003</b>
Provincial Registration No. - C.R.N./ N° d'enregistrement provincial - N.E.C. <b>K2109.123</b>		National Board No./ N° National Board	Drawing No./ N° de dessin <b>BWM-019-00 REV 7</b>

The chemical and physical properties of all parts meet the requirements of material specifications of the A.S.M.E. Code.  
Les propriétés chimiques et physiques de toutes les composantes respectent les exigences des spécifications de matériaux de code ASME.

The design, construction and workmanship conform to CSA B51. La conception, la construction et la façon sont conformes à ACNOR B51.	ASME Section VIII	Division I	Addenda/ Supplément 2002	Code case No. N° de cas
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Manufacturer's partial data reports properly identified and signed by authorized inspectors have been furnished for the following items of the report, and attached to this report:  
rapports partiels du constructeur adéquatement identifiés et signés par les inspecteurs autorisés ont été produits pour les items suivants du rapport, et attachés à ce rapport:

Parts of parts/ Nom de la composante	Item No./ N° d'item	Manufacturer's Name/ Nom du constructeur	Identifying Stamp/ Estampe d'identification

**Shell/ Virole**

Description	Material Matériau	Thickness Épaisseur	Corr. Allow. Surépais. de corr.	Diameter Diamètre	Longitudinal Joints Joints longitudinaux			P.W.H.T. Traitement therm		Girth Joints Joints de circonférence		Number of courses Nombre de sections
					Type	R.T. Radiog.	Efficiency Efficacité	Temp.	Time Durée	Type	R.T. Radiog.	
Shell #1	SA-516-70N	3/8"	1/8"	96" ID	1	None	0.7	N/A	N/A	1	None	1

**Heads/ Tetes**

Description	Material Matériau	Min. Thickn. Épais min.	Corr. Allow. Surépais. de corr.	Crown. Radius Rayon couron.	Knuckle Radius Petit rayon	Ellipse Ratio Rapp. ellipse	Conical Apex Angle Angle conique	Hemisph. Radius Ray. Hémisph	Flat Diameter Diam. plat	Side to pressure Côté sous pression
Head #1	SA-516-70N	0.313"	1/8"			2:1				Concave
Head #2	SA-516-70N	0.313"	1/8"			2:1				Concave

Removable bolts used (describe other fastenings) Boulons amovibles utilisés (décrire tout autre attache)	<b>MANWAY NUTS / BOLTS</b>	Mat'l Spec./ Spéc. du mat. <b>SA-194 / SA-193</b>	Grade <b>2HM / B7M</b>	Size/ Dimension <b>1 1/8"</b>
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**Pressure - Temperature/ Pression - température**

Pressure Vessel Part Partie de l'appareil	Constructed for max. allowable working pressure Construit pour une pression maximale de marche permise	At max. temp. A une temp. max.	Min. Temp. (when less than -29°C) Temp. min. (inférieure à -29°C)	Test pressure (hydro-pneumatic or combination) Pression d'épreuve (hydro-pneumatique ou combinaison)
Shells / Heads	<b>50 psi (g) / 345 Kpa (g)</b>	<b>200 F / 93 C</b>	<b>-20 F / -29 C</b>	<b>75 psi (g) / 517 Kpa (g)</b>

CERTIFIED BY  
**BILTON**

INNISFALL AB  
1-888-227-4923

Welding & Manufacturing Ltd

MAW.P. [50 PSI] [34.5KPA AT 200 °F] [93 °C]

MDMT. [-20 °F] [-29 °C AT 50 PSI] [34.5KPA]

SERIAL NO [12981] YEAR BUILT [2006]

C.R.N [K2109.125] A.R.N. [A496010]

DESC. [96" X 10" HARE KNOCKOUT DRUM]

SHELL THK [0.375" MIN.] HD. THK [0.313" MIN.]

CORR. ALLOW [0.125" MIN.] [IN/A]

MADE IN CANADA