



3047046

**Field Inspection Report**

Vessel # 3047046

<b>Client</b>	Canadian Natural Resources Ltd.		<b>Inspection Date</b>	2003-03-24	
<b>Prov. Reg.#</b>	3047046		<b>Insp. Type</b>	VE/UT	
<b>Equipment</b>	Separator		<b>Location</b>	Kitscoty	
<b>Tag/Equip. #</b>			<b>LSD</b>	4-6-51-2W4	
<b>Vessel Status</b>	In Operation		<b>Comp./Unit</b>		
<b>Manufacturer</b>	Bromley Mechanics	<b>Serial #</b>	45919	<b>MAWPP/Temp</b>	720 psi 100 F
<b>CRN #</b>	M5100.2	<b>Shell Material</b>		<b>Shell Thick.</b>	1,000 in
<b>Corrosion All.</b>	in	<b>Head Material</b>	SA-516-70	<b>Head Thick.</b>	1,000 in
<b>Manway</b>	No	<b>Head Material 2</b>		<b>Head Thick. 2</b>	in
<b>Coating</b>	No	<b>Channel Material</b>		<b>Channel Thick.</b>	in
<b>Diameter</b>	30 in	<b>Length</b>	in	<b>Height</b>	108 in
<b>Year Built</b>	1994	<b>Next Inspection</b>	2008	<b>RT</b>	1
<b>Service</b>	Sweet			<b>Next Insp. Type</b>	NA
				<b>Job #</b>	03-102

<b>PSV #.</b>	62606		<b>Set Pressure</b>	720 psi	
<b>Mfg.</b>	Mercer	<b>Serial #</b>	62606	<b>Size</b>	2,000 in
<b>Type/Model</b>		<b>Capacity</b>	5816 SCFM	<b>Service Co.</b>	Black Gold
<b>Date of Service</b>	2001-09-01	<b>Next Service</b>	2006		

**Observations:**

External Separator is in good condition. Paint is intact. Attached piping and fittings are secure and well supported. Separator is welded to solid foundation.

Internal  
None

**RAE Inspection Service (1979) Ltd.**  
#11,4808 - 87 Street, Edmonton, Alberta T6E 5W3  
Phone: (780) 469-2401 Fax (780) 468-2422

**Field Inspection Report**

Vessel # 3047046

UT

Measurements in Inches  
Head - 0.997 - 0.976  
Shell - 1.022 - 1.015  
6" Nozzle - 0.824 - 0.855

**Recommendations:**

None at this time.

Inspector: George Ross

Reviewed by:



AB-40 to be attached

**RAE Inspection Service (1979) Ltd.**  
 #111, 4808 - 87 Street, Edmonton, Alberta T6E 5W3  
 Phone: (780) 469-2401 Fax: (780) 468-2422

**Field Inspection Report**  
**Vessel A # 3047046**

<b>Client</b>	Canadian Natural Resources			<b>Date of Insp.</b>	August 30, 2000		
<b>Prov. Reg.#</b>	3047046			<b>Location</b>	Kitscoty		
<b>Equipment</b>	Lethal Separator			<b>LSD</b>	4-6-51-2W4		
<b>Tag/Equip. #</b>				<b>Comp./Unit #</b>			
<b>Vessel Status</b>	In Operation			<b>Job #</b>	00-462		
<b>Fabricator</b>	Bromley			<b>Serial #</b>	45919		
<b>CRN#</b>	M5100.231			<b>Shell Mat'l</b>	MAWP/Temp 720psi/ 100F		
<b>Corr. All.</b>				<b>Head Mat'l</b>	Shell Thick. 1.00"		
<b>Diameter</b>	30"			<b>Length</b>	Head Thick. 1.00"		
<b>Year Built</b>	1994			<b>Next Insp.</b>	RT   1   HT   Yes		
<b>Service</b>	Sweet			<b>Manway</b>	Insp. Type VE/UT		
<b>PSV #.</b>				<b>Coating</b>	No		
<b>Mfg.</b>	Mercer			<b>Serial #</b>	21457		
<b>Type/Model</b>	8128821123S			<b>Capacity</b>	Set Pressure 720 psi		
<b>Date of Service</b>	99/10			<b>Next Service</b>	Size 2"		
				<b>Service Co.</b>	Power Comm		

**Report # 6633**

**Observations:**

**External**

The vessel was altered by Bromley Mech.. Unsure of alteration in 1999. The vessel is tack welded to the floor of the skid. The gauge and level are in working order. The length of the flange bolts is acceptable and the piping is stable and secure. Surface rust was noted on the inlet bolt and nuts. Vessel is painted with minor chips and no corrosion and the top of the vessel is sealed at the roof.

**Internal**

The station is partially in service, no access.

**MPI**

Not required.

*7/2*

**RAE Inspection Service (1979) Ltd.**  
#111, 4808 - 87 Street, Edmonton, Alberta T6E 5W3  
Phone: (780) 469-2401 Fax: (780) 468-2422

**Field Inspection Report**  
Vessel A # 3047046

**UT Inspection (Measurements in inches)**

Test Point	Nominal			
Mid. Shell	1.000	1.043	1.045	1.044
Bottom Shell	1.000	1.026	1.020	1.020
Bottom Head	1.000	1.010	1.008	1.020
Inlet 6" S160	0.718	T 0.919	S 0.900	B 0.884
				N 0.894

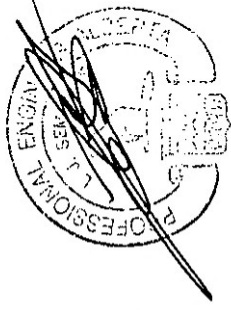
**Note** There is no access to the roof and no access to the top of the vessel.

**Recommendations:**

1. Prepare to open vessel at the next shutdown for internal inspection.

**Inspector:** Chris Kindrat

**Reviewed By:**



**Historical Data**

December 15, 1999 Job # 99-017

**Observations:**

Vessel in new condition.

Vessel to be inspected in 2000 base on Lethal Rating.

**Recommendations:**

Open for internal inspection in 2000.

**Inspector:** Dennis Simons

**Reviewed By:**

**RAE Inspection Service (1979) Ltd.**  
 #111, 4808 - 87 Street, Edmonton, Alberta T6E 5W3  
 Phone: (780) 469-2401 Fax: (780) 468-2422

**Field Inspection Report**  
**Vessel A # 3047046**

<b>Client</b>	Canadian Natural Resources		<b>Date of Insp.</b>	December 15, 1999	
<b>Prov. Reg.#</b>	3047046		<b>Location</b>	Kitscoty	
<b>Equipment</b>	Lethal Separator		<b>LSD</b>	4-6-51-2W4	
<b>Tag/Equip. #</b>			<b>Comp./Unit #</b>		
<b>Vessel Status</b>	In Operation		<b>Job #</b>	99-017	
<b>Fabricator</b>	Bromley		<b>Serial #</b>	45919	
<b>CRN#</b>	M5100.2		<b>Shell Mat'l</b>	720psi/ 100F	
<b>Corr. All.</b>			<b>Head Mat'l</b>	Shell Thick. 1.00"	
<b>Diameter</b>	36"		<b>Length</b>	Head Thick. 1.00"	
<b>Year Built</b>	1999		<b>Height</b>	15'	RT 1 HT Yes
<b>Service</b>	Manway		<b>Next Insp.</b>	2000 Insp. Type VE	
<b>PSV #.</b>			<b>Manway</b>	No Coating	
<b>Mfg.</b>	Mercer		<b>Serial #</b>	21457 Set Pressure 720psi	
<b>Type/Model</b>			<b>Capacity</b>	5816 SCFM Size	
<b>Date of Service</b>	1999		<b>Next Service</b>	2000 Service Co.	

**Report # 9513**

**Observations:**

Vessel in new condition.

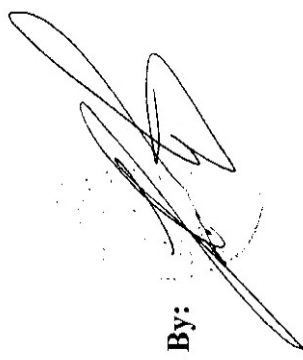
Vessel to be inspected in 2000 base on Lethal Rating.

**Recommendations:**

Open for internal inspection in 2000.

**Inspector: Dennis Simons**

**Reviewed By:**



# Certificate of Inspection

CANADIAN NATURAL RESOURCES LTD  
2000, 425 - 1 STREET SW

PREFERRED RE-INSP. INTERVAL: 5.00 Yr.

CALGARY, AB  
T2P 3L8

**RECEIVED** 2002 08 1999

CRN: M5100.2

YEAR BUILT: 1994

LOCATION: LSD: 4-6-51-2-W4M

VOLUME: 2.208 M3

DESCRIPTION: LETHAL INLET SEPERATOR

HEATING SURFACE:

COMPANY CODE:

SURFACE AREA:

MANUFACTURER: BROMLEY MECHANICAL

SERIAL #: 45919

Safety Valves

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	CAPACITY	LOCATION
SHELL	4964 KPA	38 C	-29 C	PSV1			TO BE INSTALLED

**OWNER INSTRUCTIONS/REMARKS:**

VERIFY THAT VESSEL/BOILER IS PROTECTED BY A 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.

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.

Safety Codes Officer: MALTAIS, DONALD

Signature:



**NOTE: 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.

**FEB 09 2000**

# Certificate of Inspection

RECEIVED FEB 24 1999

CANADIAN NATURAL RESOURCES LTD  
2000, 425 - 1 STREET SW

PREFERRED RE-INSP. INTERVAL: 2.00 Yr.  
CRN: M5100.2

CALGARY, AB  
T2P 3L8

YEAR BUILT: 1994  
VOLUME: 2.208 M3

LOCATION: CALGARY STOCK  
DESCRIPTION: INLET SEPERATOR  
MANUFACTURER: BROMLEY MECHANICAL  
SERIAL #: 45919.

HEATING SURFACE:  
SURFACE AREA:  
COMPANY CODE:

PART	MAX. AUTHORIZED WORKING PRESSURE	MAX. TEMP	MIN. TEMP	VALVE ID	SETTING	Safety Valves	
						CAPACITY	LOCATION
SHE	4964 KPA	38 C	-29 C	PSV1			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 A 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: ROY, ALFRED**

**Signature:**



**NOTE: 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.



**RAE Inspection Service (1979) Ltd.**

#301, 6925 - 51 Avenue, Edmonton, Alberta, Canada T6E 5J3

Telephone (403) 498-2401, Facsimile (403) 498-2422

Pressure Vessel Data Input Report

File Number: \_\_\_\_\_ Date: May 2/96 Page 1 of \_\_\_\_\_

**Equipment Identification**

Owner	Canadian Natural Resources		
LSD	10-10-64-26W4		
Location Name	Bollogue		
Description	Inlet Separator #1		
Manways	<input type="checkbox"/> No	<input type="checkbox"/> Yes	Coated Vessel <input type="checkbox"/> Yes <input type="checkbox"/> No

**Equipment Static Data**

Provincial Number	A 304 7046	CRN	M5100.2
Tag Number	Orban - UW12A	Serial Number	43919
Manufacturer	<del>Orban</del> Orban Industries	Year Built	1994
MAWP	4964 kpa @ 38°C	MDMT	-20°F @ 20 psf
Shell Material		Thickness	1.00
Head Material		Thickness	
Tube Material		Thickness	
Corrosion Allowance		Diameter	
Length		Height	
Volume		Radiography Code	RT
Heat Treatment		Drawing Reference	

**Other Data**

Last Inspection	Next Inspection		
Inspection Type	<input type="checkbox"/> Visual <input type="checkbox"/> RT <input type="checkbox"/> MPT <input type="checkbox"/> LPT <input type="checkbox"/> Ultrasonic <input type="checkbox"/> Coating <input type="checkbox"/> Initial <input type="checkbox"/> Reinspection <input type="checkbox"/> Inventory Only		
Cleaning	<input type="checkbox"/> Good <input type="checkbox"/> Poor <input type="checkbox"/> Unacceptable	Access	<input type="checkbox"/> Internal <input type="checkbox"/> External <input type="checkbox"/> Manway <input type="checkbox"/> Thru Nozzle
Service	<input type="checkbox"/> Steam <input type="checkbox"/> LPG <input type="checkbox"/> Oil <input type="checkbox"/> Air <input type="checkbox"/> Gas <input type="checkbox"/> Sour Gas <input type="checkbox"/> Multiphase Sour <input type="checkbox"/> Water <input type="checkbox"/> Other:		
PSV Off for Service	<input type="checkbox"/> YES - service report to be obtained <input type="checkbox"/> NO - details to be included on next page		

Comments Unit #1

**RAE Inspection Service (1979) Ltd.**

6301, 6625 - 51 Avenue, Edmonton, Alberta T6E 5J3

Telephone (403) 468-2401 Fax (403) 468-2422

File Number \_\_\_\_\_

Date May 2/96 Page 2 of \_\_\_\_\_

**SAFETY VALVE IDENTIFICATION**

PSV ID Number			
Vessel/Line Identification	Inlet Scrubber	MAWP	900
Manufacturer	Mercer	Model Number	1288211235
Serial Number	21457	Set Pressure	720
Service Description	<input checked="" type="checkbox"/> Sweet <input type="checkbox"/> Sour <input type="checkbox"/> Gas <input type="checkbox"/> Liquid <input type="checkbox"/> Multiphase <input type="checkbox"/> Cryogenic <input type="checkbox"/> Amine		
Valve Size	INLET: 2"                      OUTLET: 2"		
Capacity	5816	<input checked="" type="checkbox"/> ft <sup>3</sup> /min <input type="checkbox"/> lb/hr <input type="checkbox"/> gpm <input type="checkbox"/> other _____	
Date Placed in Service	<del>95-09-27</del> - 95-09-27		
Date of Previous Service	95-09-27		
Previous Service Company	Red Water Machining		
LSD where PSV is located	10-10-64-26624		

This PSV protects the following vessels:	
2047046 → A Inlet Separator	Primary: <input type="checkbox"/> Yes <input type="checkbox"/> No
2991807 → A #1 Stage Scrubber	Primary: <input type="checkbox"/> Yes <input type="checkbox"/> No
A 2991838	Primary: <input type="checkbox"/> Yes <input type="checkbox"/> No

**COMMENTS**

Unit # 1

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# Certificate of Inspection

CANADIAN NATURAL RESOURCES LTD  
SUITE 2000, ESSO PLAZA  
425-1 STREET SW  
CALGARY AB T2P 3L8

**LOCATION:** BOLLOQUE COMPRESSOR STN.  
**COMPANY CODE:**  
**DESCRIPTION:** INLET SEPERATOR  
**PREFERRED RE-INSP. INTERVAL:** 2.00 YRS  
**CRN:** M5100.2

**MANUFACTURER:** BROMLEY MECHANICAL SERVICES (1985) LTD.  
**SERIAL # :** 45919  
**HEATING SURFACE:** m2  
**YEAR BUILT:** 1994  
**CUBICAL CAPACITY:** 2.208 m3

PART	MAX. AUTHORIZED PRESSURE	MAX. TEMP/ MIN. TEMP	ID/LOCATION	SAFETY VALVES SET/CAPACITY	AT TEMP
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SHELL	4964 kPa	38 C SV1 -29 C T.B.I.		0 kPa 0	
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**INSPECTOR:** CHALIFOUX TOM R.      **SIGNATURE:** *Tom Chalifoux*

**NOTE: 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 INSPECTOR IMMEDIATELY AND SHALL SEND A FULL REPORT IN WRITING TO THE CHIEF INSPECTOR AS REQUIRED BY THE ACT. NO REPAIRS OR ALTERATIONS MAY BE MADE UNLESS AUTHORIZED BY AN INSPECTOR.



LABOUR  
Boiler and Pressure Vessel Safety

# Certificate of Inspection

*Boilique*

VESSEL (A) : 3047046 ✓

DATE OF INSPECTION : 1994 DEC 01

CANADIAN NATURAL RESOURCES LTD  
SUITE 2000, ESSO PLAZA  
425-1 STREET SW  
CALGARY AB

*F-94 P23C*

T2P 3L8

LOCATION: STOCK  
COMPANY CODE:

DESCRIPTION: SEPARATOR

PREFERRED RE-INSP. INTERVAL: 2.00 YRS  
CRN: M5100.2

MANUFACTURER: BROMLEY MECHANICAL SERVICES (1985) LTD.

SERIAL # : 45919

YEAR BUILT: 1994

HEATING SURFACE:

m2

CUBICAL CAPACITY:

2.208 m3

PART	MAX. AUTHORIZED PRESSURE	MAX. TEMP	MIN. TEMP	ID/LOCATION	SAFETY VALVES SET/CAPACITY	AT TEMP
SHELL	4964 kPa	38 C	SV1 -29 C	T.B.I.	0 kPa.	0

SHELL

4964 kPa

38 C

SV1

-29 C

T.B.I.

0 kPa.

0

### OWNER INSTRUCTIONS/REMARKS:

SHOP INSPECTION ONLY  
OWNER TO VERIFY INTEGRITY OF VESSEL BY PERIODIC INSPECTION PROGRAM.  
VERIFY THAT VESSEL IS PROTECTED BY A 'UV' SAFETY RELIEF VALVE OF ADEQUATE CAPACITY SET AT NO MORE THAN MAXIMUM PRESSURE AUTHORIZED, HAS BEEN INSTALLED IN ACCORDANCE WITH THE REGULATIONS.  
TO BE INSTALLED IN ACCORDANCE WITH THE SAFETY CODES ACT AND THE BOILERS AND PRESSURE VESSELS REGULATIONS.

INSPECTOR: ALFRED E. ROY

SIGNATURE: *A. E. Roy*

NOTE: 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 INSPECTOR IMMEDIATELY AND SHALL SEND A FULL REPORT IN WRITING TO THE CHIEF INSPECTOR AS REQUIRED BY THE ACT. NO REPAIRS OR ALTERATIONS MAY BE MADE UNLESS AUTHORIZED BY AN INSPECTOR.

ALBERTA LABOUR  
General Safety Services Division  
Boilers Branch  
6th Floor, 10808 - 99 Avenue  
Edmonton, Alberta  
T5K 0G2

Boleque (A) ✓  
JASVIE  
3047039  
3047046  
Boleque  
Mkt Separator NLL  
Separator

**MANUFACTURER'S DATA REPORT  
FOR PRESSURE VESSEL**  
**DÉCLARATION DE CONFORMITÉ DU CONSTRUCTEUR  
D'APPAREILS SOUS PRESSION**

Partial/Partiel

Upon 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 Brouley Mechanical Services (1985) Ltd., Box 404, 773 - 16 ST SW Medicine Hat, AB T1A 7C2		
<b>Manufactured for Construit pour</b>	Name and address of Purchaser or Consignee/Nom et adresse du client ou de son représentant Orban Industries Ltd., 5470 - 53 ST SE, Calgary, AB T2C 4B6		
<b>Ultimate owner Utilisateur</b>	Name and address/Nom et adresse Canadian Natural Resources Ltd., 2000, 425 - 1st ST SW, Calgary, AB T2P 3L8		
<b>Location of Installation Lieu d'installation</b>	Address/Adresse Stock		

<b>Pressure vessel/Appareil</b>	Type/Gentre Separator		
<b>Provincial Registration No. - C.R.N./ N° d'enregistrement provincial - N.E.C.</b>	Serial No./N° de série 45918, 45919	Year built/Année de fabrication 1994	Overall Length/Long. totale 13'
	National Board No./N° National Board M 5100.2	Drawing No./N° de dessin 36 -- 720	Diameter/Diamètre 36"

**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.

Manufacturers' 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:  
Les 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:

Names 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	Overall Length Long. totale	Number of courses Nombre de sections	Girth Joints Joints de circonférence		Longitudinal Joints Joints longitudinaux		P.W.H.T. Traitement therm.	
							Type	R. T. Radiog.	Type	R. T. Radiog.	Temp.	Time Durée
Shell	SA516-70	1"	0.125	36"	10'	1	Full	1	Full	1	150 F	60 min.
Heads/Tetes												

Description	Material Matériau	Min. Thicken. Épais. minimum	Corr. Allow. Surépais. corr.	Crown Radius Rayon couron.	Knuckle Radius Petit rayon	Ellipse Ratio Rapp. ellipse		Conical Apex Angle Angle conique/étoilé	Hemish. Radius Rayon hémisph.	Flat Diameter Diam. plat	Signs to pressure Côté sous pression
						2:1					
Heads	SA516-70	.990	0.125			2:1					Concave
Removable bolts used (describe other fastenings) Boulons amovibles utilisés (décrire tout autre attache)											

**Pressure - Temperature/Pression - température**

Pressure Vessel Part Partie de l'appareil	Mat'l Spec./Spéc. du mat.	Grade	Size/Dimention
Constructed for max. allowable working pressure Construit pour une pression maximale de marche permise	At max. temp. A une temp. max. (29° C)	Min. Temp. (when less than 29° C) Temp. min. (intérieure à 29° C)	Test pressure (hydro-pneumatic or pneumatic only combination) Pression d'épreuve (hydro-pneumatique ou pneumatique)
Vessel	100 F/38	-20 F / -29	1080 psi / 7446 kPa

<b>Tube Section/Faisceau tubulaire</b>		<b>Material/Matériau</b>		<b>Diameter/Diamètre</b>		<b>Nominal Thickness Épaisseur nominale</b>		<b>Corr. Allow. Surépais. corrosion</b>		<b>Attachment Mode d'attachement</b>	
Subsheet/Plaque tubulaire										Atachment Mode d'attachement	
<b>Tube material/Matériau des tubes</b>		<b>Diameter/Diamètre</b>		<b>Nominal Thickness (gauge) Épaisseur nominale (calibre)</b>		<b>Number/Nbre</b>		<b>Type (Straight or U) Type (Droit ou U)</b>		<b>Heating Surface Surface de chauffe</b>	
										Heating Surface Surface de chauffe	

<b>Jacket/Chemise</b>		
<b>Type of jacket/Genre de chemise</b>	<b>Jacket closure Fermeture de chemise</b>	<b>Proof Test Pression d'épreuve</b>
<b>Safety Valve Outlets/Souppapes de sûreté</b>		
<b>Number/Nombre</b>	<b>Dimension</b>	<b>Location/Endroit</b>
1	2"	Shell

<b>Purpose/But</b>	<b>Number Nombre</b>	<b>Dimension</b>	<b>Type</b>	<b>Material Matériau</b>	<b>Nominal Thickness Épaisseur nominale</b>	<b>Reinforcement Matériau de renfort</b>	<b>How attached Genre d'attaches</b>	<b>Location/Endroit</b>
Inlet, Out.let	2	6"	Nozzle	SA106B	.864	—	weld	Top Head / Shell
Drain, PSV, PI, TI, Gauge, Cond. Out., Water Out.	10	2"	Nozzle	SA106B	.344	—	weld	Shell / Bottom Head
Inspect	2	3"	Nozzle	SA106B	.600	—	weld	Shell
Cond. LLC, Inter LLC, LSH	3	4"	Nozzle	SA106B	.674	—	weld	Shell

<b>Skirt/Jupe</b>	<b>Legs/Oreilles No./Nbre</b>	<b>Other/Autres (Description)</b>	<b>Attached/Attaches (Where and How/Méthode et endroit)</b>
Yes/Oui <input checked="" type="checkbox"/> No/Non <input type="checkbox"/>			Bottom Head / Weld

**Remarks/Observations (Cubical capacity/Volume)**

Volume = 78 cu. ft. or 2.208 m  
M.D.M.T. = 720 psi at 100 F  
C.A. = 0.125  
Impact testing not mandatory per UG 20

**Certificate of Compliance/Certificat de conformité**  
We certify that the statements made in this data report are correct and that the said vessel has been constructed in accordance with the Provincial Registered design below and the requirements of standard CSA B51.  
Nous certifions que les données de la déclaration de conformité sont correctes et que l'appareil a été construit en accord avec l'enregistrement provincial ci-dessous et les exigences de la norme ACNOR B51.  
Provincial Reg. stored Design M 5100.2  
Enregistrement provincial  
Manufacturer Bradley Mechanical Services (1985) Ltd.  
Constructeur  
Signature *[Signature]* Date Dec 9/04

**Certificate of Shop Inspection/Certificat d'inspection en usine**  
I, the undersigned, a duly authorized Boiler and Pressure Vessel Inspector Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression employed by PROVINCE  
of Alberta  
de  
I have inspected the above vessel and state that to the best of my knowledge and belief, the manufacturer has constructed the vessel in accordance with the Provincial registration CRN M 5100.2 and the requirements of standard CSA B51.  
ai inspecté l'appareil précité et autant que je sache, crois que le constructeur a construit l'appareil en accord avec l'enregistrement provincial NEC et les exigences de la norme ACNOR B51.  
Inspector's Name Alfred E. Roy  
Nom de l'inspecteur  
Signature *[Signature]* Date Dec 9/04

**Certificate of Compliance / Certificat de conformité Field Work**  
Installation au chantier  
We certify that the field installation of all parts of the vessel conforms with the requirements of Provincial Regulations.  
Nous certifions que l'installation au chantier de toutes les composantes de l'appareil est conforme aux règlements provinciaux.  
Installer's Name  
Nom de l'installateur  
Signature \_\_\_\_\_

**Certificate of Inspection / Certificat d'inspection Field Inspection / Installation au chantier**  
I, the undersigned, a duly authorized Boiler and Pressure Vessel Inspector Je, soussigné, inspecteur autorisé de chaudières et appareil sous pression employed by \_\_\_\_\_  
employé par \_\_\_\_\_  
I have inspected the items not covered by the Shop Inspection Certificate and the installation of the items and state that to the best of my knowledge and belief the construction and assembly of the items are in accordance with the Provincial Regulations.  
ai inspecté les composantes non couvertes par le certificat d'inspection en usine et l'installation de l'appareil et, autant que je sache, la construction et l'assemblage des éléments sont conformes aux règlements provinciaux.  
Inspector's Name \_\_\_\_\_