



## RAPORT NR. PL/41/13300357-0058

<b>Towar deklarowany jako</b>	LNG
<b>Zleceniodawca</b>	Barter S.A. Ul. Legionowa 28 15-281 Białystok
<b>Miejsce pobrania próbki</b>	TEREN UC BIAŁYSTOK, UL. OCTOWA 10, BIAŁYSTOK
<b>Data pobrania próbki</b>	02.08.2013
<b>Data wykonania analiz</b>	05.08.2013
<b>Metoda badań</b>	procedura CLPB nr PB PFC/ch1, wyd. 6 z 01.04.2011 – GC PFC 1/0
<b>Ciśnienie gazu</b>	7,0 bar
<b>Temperatura otoczenia</b>	(24,6÷25,1)°C
<b>Nr. dostawy</b>	1
<b>Numer referencyjny SGS</b>	41/13300357/1

**Małaszewicze 2013-08-05**  
Numer referencyjny.: 41/13300357-1

SGS Polska Sp. z o.o.,  
ul. Bema 83, 01-233 Warszawa  
Tel.: (48-22) 329 22 22 F800901  
Fax: (48-22) 329 22 20

E-mail: [sgs\\_poland@sgs.com](mailto:sgs_poland@sgs.com)

SGS Polska Sp. z o.o. ul. Bema 83, 01-233 Warszawa, Sąd Rejonowy dla M.ST. Warszawy w Warszawie, XII Wydział Gospodarczy Krajowego Rejestru Sądowego  
NPKRS:0000027334; NIP: 586-000-56-08; REGON:000144259; Wysokość kapitału zakładowego: 10.144.200,00 ZŁ

Strona 1 z 2

SGS Polska Sp. z o.o.

Specjalista ds. Obsługi Klienta  
Marta Pyzik-Pszczota

**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted. This document is issued by the Company under its General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

The present report represents findings at the time and place of inspection only. Partial reproduction of this report is allowed without the written permission of the Client and the Company. The present report does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents.

12596582





# RAPORT NR. PL/41/13300357-0058

## RAPORT Z INSPEKCJI

Na zlecenie firmy BARTER S.A. przeprowadzono próbobranie i analizę ww. towaru.

Próbkę pobrano z autocysterny nr WBR89EJ/WBR33TG., z zaworu V11

Próbkę zaplombowano plombą UC- E103.

Próbka została dostarczona do laboratorium z plombą w stanie nienaruszonym.

Wyniki analizy wg sprawozdania z badań nr 247/B/PFC/2013 z dnia 05/08/2013

Wykryty składnik	Stężenie [%mol]	Niepewność (Usa) [% mol]	Wyniki obliczeń wg PN-EN ISO 6976:2008
metan	99,278	0,006	ciepło spalania 39,60 (±0,01)
etan	0,088	0,001	[MJ/m <sup>3</sup> ]
propan	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
izo-butan	nie stwierdzono	-	wartość opałowa 35,69 (±0,01)
n-butan	nie stwierdzono	-	[MJ/m <sup>3</sup> ]
neo-pentan	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
izo-pentan	nie stwierdzono	-	górną liczbą Wobbego 53,00 (±0,01)
n-pentan	nie stwierdzono	-	[MJ/m <sup>3</sup> ]
grupa C6	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
grupa C7	nie stwierdzono	-	dolną liczbą Wobbego 47,77 (±0,01)
grupa C8	nie stwierdzono	-	[MJ/m <sup>3</sup> ]
grupa C9	nie stwierdzono	-	(25°C/0°C/101,325 kPa)
azot	0,577	0,005	gęstość normalna 0,7218 (±0,0001)
dutlenek węgla	0,057	0,001	kg/m <sup>3</sup>
tlen	nie stwierdzono	-	(0°C/101,325 kPa)
			gęstość względna 0,5583 (±0,0001)

Gęstość LNG" 422,938 kg/m<sup>3</sup>, dla temp. -160°C

Hs LNG: 55,01 MJ/kg dla temp. 0°C

Hs LNG: 55,86 MJ/kg dla temp. 25°C

Próbki zostały pobrane przez i przeanalizowane przez naszego podwykonawcę: PGNiG SA, Warszawa  
Certyfikat akredytacji laboratorium: AB 278.

**Uwaga: Pobrano fazę gazową z powodu braku możliwości poboru bezpośredniego fazy ciekłej na cysternie.**

Signed and dated in  
Malaszewicze, 05.08.2013

For and on behalf of  
SGS Polska Sp. z o.o.  
SGS Polska Sp. z o.o.

Specjalista ds. Obsługi Klienta  
Marta Pyzik-Pszczola

These findings are reported herein for convenience only and SGS has no liability for the subcontracted results, which remain with PGNiG SA, ul. Marcina Kasprzaka 25B in Warszawa.

The Company's involvement has been limited to implementing the Client's instructions, which required the Company to submit the sample(s) for analysis to a third-party laboratory. The Company is not responsible for those analytical results, the responsibility of which remains with the laboratory that produced those results.

Strona 2 z 2

**WARNING:** The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

This document is issued by the Company under its General Conditions of Service accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Any other holder of this document is advised that information contained hereon reflects the Company's findings at the time and place of inspection only. Partial reproduction of this report is allowed without the written permission of the Company. The present report represents findings at the time and place of inspection only.

The present report represents findings at the time and place of inspection only. Partial reproduction of this report is allowed without the written permission of the Company. The present report represents findings at the time and place of inspection only.

12596583

