

JUL-24-2003 THU 01:18 AM CORE LABORATORIES EDM

FAX NO. 780 4... 8031

P. 02



EXTENDED GAS ANALYSIS

V0008164 - 1

15372

62136-2003-2043

CONTAINER IDENTITY

METER ID

WELL LOGGING NUMBER

LABORATORY FILE NUMBER

Shell Canada Limited

1

PAGE

OPERATOR

200 b-3-G/98-P-3/00

Shell Bulmoose b-3-G/98-P-3

KG ELEV (m)

OR ELEV (m)

LOCATION (UWI)

WELL NAME

Shell Canada

Bulmoose

Bulloy
FOOL CR 20NS

SAMPLER

FIELD OR AREA

TEST RECEIPT

TEST TYPE AND NO.

Flowline

CORE LAB SAMPLE POINT ID

POINT OF SAMPLE

PUMPING FLOWING GAS LIFT GALS
 WATER #14 OIL #16 GAS #17 #18

TEST INTERVAL or PERFS (M/D/Y)

9784

10890 @ 22 °C

SEPARATOR

OTHER

Temperatures, °C

SEPARATOR

RESTRICTOR

OTHER

CONTAINER WHEN SAMPLED

CONTAINER WHEN RECEIVED

Pressures, kPa (gauge)

at 07:21 hrs

2003 07 23

2003 07 23

AB

ANL. AND TYPE CUBICIN

MUD RESISTIVITY

2003 07 23

DATE RECEIVED (M/D/Y)

DATE ANALYZED (M/D/Y)

ANALYST

COMPONENT	MOLE FRACTION AIR FREE AS RECEIVED	MOLE FRACTION AIR FREE ACID GAS FREE	MILN AIR FREE AS RECEIVED
H ₂	0.0004	0.0012	
He	0.0003	0.0008	
N ₂	0.0403	0.1107	
CO ₂	0.2657	0.0000	
H ₂ S	0.3800	0.0000	
C ₁	0.3232	0.8889	
C ₂	0.0001	0.0003	0.4
C ₃	Trace	Trace	Trace
iC ₄	Trace	Trace	Trace
C ₄	0.0000	0.0000	0.0
iC ₅	0.0000	0.0000	0.0
C ₅	Trace	Trace	Trace
C ₆	0.0000	0.0000	0.0
C ₇₊	0.0000	0.0000	0.0
Total	1.0000	1.0000	0.4

CALCULATED GROSS HEATING VALUE MJ/m ³ @ 15°C & 101.325 kPa (abs.)		CALCULATED VAPOR PRESSURE kPa (abs.) @ 40 °C	
21.34	33.63		
MOISTURE FREE		MOISTURE & ACID GAS FREE	
CALCULATED TOTAL SAMPLE PROPERTIES (AIR-FREE) @ 15°C & 101.325 kPa		MOISTURE FREE AS SAMPLED	
1.291 kg/m ³	1.054	30.6	
DENSITY		RELATIVE DENSITY	
RELATIVE MOLECULAR MASS		RELATIVE MOLECULAR MASS	
CALCULATED PSEUDO-CRITICAL PROPERTIES			
AS SAMPLED		ACID GAS FREE	
8916.8 kPa (abs.)	296.4 K	4458.2 kPa (abs.)	183.1 K
p _{PC}	T _{PC}	p _{PC}	T _{PC}
C _p PROPERTIES @ 15°C & 101.325 kPa		GAS COMPRESSIBILITY	
SUPER COMPRESSIBILITY		SUPER COMPRESSIBILITY	
DENSITY		MOLECULAR WEIGHT	
@ 15°C, 101.325 kPa		@ 15°C, 101.325 kPa	

REMARKS:
 H₂S determined in the field by Tubewell = 35.00%
 Lab H₂S by Gas Chromatography = 29.32

Purged sample

NOTE: THE GROSS HEATING VALUE HAS BEEN CALCULATED IN ACCORDANCE TO AGA REPORT #8 AND ALL PROPERTIES HAVE BEEN CALCULATED UTILIZING GRA 1448 - 88 PHYSICAL CONSTANTS.