



NATURAL GAS ANALYSIS

PROJECT NO. : 200712050 ANALYSIS NO. : 04
 COMPANY NAME : LONEWOLF ANALYSIS DATE: DECEMBER 11, 2007
 ACCOUNT NO. : SAMPLE DATE : DECEMBER 6, 2007
 PRODUCER : TO:
 LEASE NO. : CYLINDER NO. : 098
 NAME/DESCRIP: Steffen 1-3 LOCATION: SEC. 03-03S-39W CHEYENNE COUNTY

FIELD DATA

SAMPLED BY : PETE LAUER AMBIENT TEMP.:
 SAMPLE PRES. : 82 GRAVITY :
 SAMPLE TEMP. : VAPOR PRES. :
 COMMENTS :

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.09	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.04	-	-
NITROGEN	4.21	-	-
CO2	4.33	-	-
METHANE	89.63	-	-
ETHANE	1.13	0.301	0.302
PROPANE	0.40	0.110	0.110
ISOBUTANE	0.07	0.023	0.023
N-BUTANE	0.07	0.022	0.022
ISOPENTANE	0.02	0.007	0.007
N-PENTANE	0.01	0.004	0.004
HEXANES+	0.00	0.000	0.000
TOTAL	100.00	0.466	0.468

BTU @ 60 DEG F 14.65 14.73
 GROSS DRY REAL = 940.1 945.2
 GROSS WET REAL = 923.7 928.8

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) : 0.6257
 COMPRESSIBILITY FACTOR : 0.99791

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS

KANSAS CORPORATION COMMISSION
 APR 13 2009
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