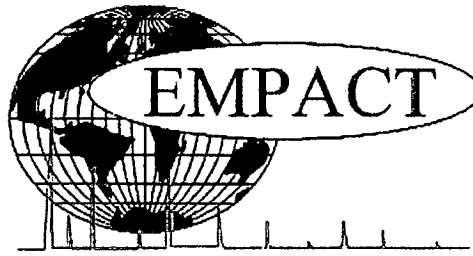


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G2



NATURAL GAS ANALYSIS

PROJECT NO. : 201005054 ANALYSIS NO. : 06
 COMPANY NAME : NOBLE ENERGY ANALYSIS DATE : May 12, 2010
 ACCOUNT NO. : YUMA SAMPLE DATE : May 3, 2010
 PRODUCER : TO :
 LEASE NO. : E1502321190 CYLINDER NO. : 299
 NAME/DESCRIP. : Cook Farms 14-9

LOCATION; SEC. 09 - 02 S - 38 W CHEYENNE COUNTY

FIELD DATA

SAMPLED BY : C. GARTRELL - EMPACT AMBIENT TEMP. :
 SAMPLE PRES. : 39.48 GRAVITY :
 SAMPLE TEMP. : 52.62 VAPOR PRES. :
 SAMPLE TYPE : SPOT
 FIELD COMMENTS : NO PROBE
 LAB COMMENTS :

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.10	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.05	-	-
NITROGEN	5.05	-	-
CO2	1.77	-	-
METHANE	91.10	-	-
ETHANE	1.17	0.311	0.313
PROPANE	0.49	0.134	0.135
ISOBUTANE	0.09	0.029	0.029
N-BUTANE	0.10	0.031	0.032
ISOPENTANE	0.03	0.011	0.011
N-PENTANE	0.02	0.007	0.007
HEXANES+	0.03	0.013	0.013
TOTAL	100.00	0.536	0.540

BTU @ 60 DEG F	14.65	14.73
NET DRY REAL =	866.5	871.2
NET WET REAL =	851.4	856.1
GROSS DRY REAL =	961.8	967.0
GROSS WET REAL =	945.0	950.2

RELATIVE DENSITY REAL (AIR=1 @ 14.696 PSIA 60F) : 0.6077

COMPRESSIBILITY FACTOR : 0.99798

NOTE: REFERENCE GPA 2261(ASTM D1945), 2145, & 2172 CURRENT PUBLICATIONS
 THIS DATA HAS BEEN ACQUIRED THROUGH APPLICATION OF CURRENT STATE-OF-THE-ART ANALYTICAL TECHNIQUES.
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