

05-123-32570



NATURAL GAS ANALYSIS

PROJECT NO. : **200910139** ANALYSIS NO. : **01**
COMPANY NAME : **NOBLE ENERGY** ANALYSIS DATE: OCTOBER 27, 2009
ACCOUNT NO. : SAMPLE DATE :
PRODUCER : TO:
LEASE NO. : CYLINDER NO. : 1L TEDLAR BAG
NAME/DESCRIP : K09-01; FIVE RIVERS

FIELD DATA

SAMPLED BY : AMBIENT TEMP.:
SAMPLE PRES. : GRAVITY :
SAMPLE TEMP. : VAPOR PRES. :
COMMENTS :

COMPONENTS	NORM. MOLE%	GPM @ 14.65	GPM @ 14.73
HELIUM	0.00	-	-
HYDROGEN	0.00	-	-
OXYGEN/ARGON	0.62	-	-
NITROGEN	1.25	-	-
CO2	0.00	-	-
METHANE	79.48	-	-
ETHANE	11.13	2.961	2.977
PROPANE	4.32	1.184	1.190
ISOBUTANE	0.72	0.234	0.236
N-BUTANE	1.22	0.383	0.385
ISOPENTANE	0.41	0.149	0.150
N-PENTANE	0.34	0.123	0.123
HEXANES+	0.51	0.221	0.223
TOTAL	100.00	5.255	5.283

BTU @ 60 DEG F	14.65	14.73
NET DRY REAL (LOW) =	1113.3	1119.4
NET SATURATED REAL =	1093.9	1099.9
GROSS DRY REAL (HIGH) =	1228.1	1234.8
GROSS SATURATED REAL =	1206.6	1213.3

RELATIVE DENSITY (AIR=1 @14.696 PSIA 60F) : 0.7170

COMPRESSIBILITY FACTOR : 0.99658