



424 Greenwood - Wichita, Kansas 67211 • (316) 269-4200

EXTENDED NATURAL GAS ANALYSIS

COMPANY NAME: Sandhill, LLC

Lab #: 138777

Sample I.D.: #1 Hitz, Master Meter

SETT#: n/a

COUNTY: n/a

LEGAL LOCATION: Sec.5-23S-12W

DATE SAMPLED: 11/15/01

SAMPLER: n/a

SAMPLE PRESSURE: n/a

TEMPERATURE (F): n/a

DATE ANALYZED: 11/19/01

QUALITY CONTROL DATE: 11/19/01

ANALYSIS

CALCULATED AT 14.558 PSIA, 60 F, NORMALIZED

COMPONENT	MOLAL %	BTU AMOUNT	GPM
METHANE	65.9	563.51	
ETHANE	4.34	78.58	1.15
PROPANE	2.73	68.47	0.75
ISOBUTANE	0.45	14.59	0.15
NORMAL BUTANE	1.01	32.85	0.32
ISOPENTANE	0.18	6.38	0.06
NORMAL PENTANE	0.22	8.79	0.08
HEXANES+	0.26	13.13	0.11
NITROGEN	23.81		
OXYGEN	0.07		
CARBON DIOXIDE	0.1		
HELIUM	0.95		
HYDROGEN	0	0	

TOTALS	100	884.3	2.62

BTU/FT³ DRY (IDEAL GROSS): 884.3BTU/FT³ SATURATED (IDEAL GROSS): 889.69BTU/FT³ DRY (REAL GROSS): 886.1BTU/FT³ SATURATED (REAL GROSS): 871.4

SPECIFIC GRAVITY: 0.7327

COMPRESSIBILITY: 0.898

GPM: 2.62

POSTED

NOV 21 2001

RESPECTFULLY SUBMITTED

PRIORITY ANALYTICAL LAB

Hexanes+ parameters: BTU (dry)-5005.8, S.G.=0.705; Summation factor= 0.881, at 14.008 psia.

Analyzed and calculated by: Modified GPA 2281-00, 2145-04 & 2172-08.

RECEIVED NOV 21 2001