



NATURAL GAS ANALYSIS

CUSTOMER PROJECT #:	NAME/DESCRIP :	ASBURY #10
SN/PRIMARY DB KEY:		WELLHEAD CASING
FIELD/AREA:		
PROJECT NO. :	202406055	ANALYSIS NO. : 01
COMPANY NAME :	XCEL ENERGY	ANALYSIS DATE: JUNE 17, 2024 11:47
OFFICE / BRANCH:	GRAND JUNCTION, CO	SAMPLE DATE : JUNE 12, 2024
CUSTOMER REF:		TO:
PRODUCER :		EFFECTIVE DATE:
FIELD DATA		
SAMPLE CYCLE:		SAMPLE TYPE: SPOT
SAMPLE PRES. : 20	psig	PROBE : NO
FLOW PRES. :	psig	CYLINDER NO. : 0499
LAB PRES:	psig	SAMPLED BY : GALE MCENDREE
SAMPLE TEMP. : 92	°f	SAMPLING COMPANY: EMPACT
AMBIENT TEMP.:	°f	H2S BY STAIN TUBE: - ppm mol
H2O BY STAIN TUBE: -	#/mmcf	CO2 BY STAIN TUBE: - Mol %
FIELD COMMENTS:		
LAB COMMENTS:		

COMPONENTS	NORM. MOLE%	GPM @ 14.696	GPM @ 14.73
HELIUM	0.00	-	-
HYDROGEN	95.88	-	-
OXYGEN/ARGON	0.46	-	-
NITROGEN	3.54	-	-
CARBON DIOXIDE	0.07	-	-
METHANE	0.04	-	-
ETHANE	0.01	0.003	0.003
PROPANE	0.00	0.000	0.000
ISOBUTANE	0.00	0.000	0.000
N-BUTANE	0.00	0.000	0.000
ISOPENTANE	0.00	0.000	0.000
N-PENTANE	0.00	0.000	0.000
HEXANES PLUS	0.00	0.000	0.000
TOTAL	100.00	0.003	0.003
BTU @ 60 DEG F			
LHV NET DRY REAL=		14.696 263.1 /scf	14.73 263.7 /scf
NET SATURATED REAL=		258.5 /scf	259.1 /scf
HHV GROSS DRY REAL =		311.4 /scf	312.1 /scf
GROSS SATURATED REAL =		306.0 /scf	306.7 /scf
NET DRY IDEAL =		263.1 /scf	
GROSS DRY IDEAL =		311.4 /scf	
NET HEATING VALUE (60 °F, ideal reaction):		32061.5 Btu/lbm	
GROSS HEATING VALUE (60 °F, ideal reaction):		37958.3 Btu/lbm	
SPECIFIC GRAVITY (AIR=1 @14.696 PSIA 60F) :		0.1074	
DENSITY (lbm/scf)		0.00820	
COMPRESSIBILITY FACTOR :		1.0000	
REGULAR WOBBE INDEX (14.696)		950.2	

NOTE: REFERENCE GPA 2261(ASTM D1945 & ASME-PTC) with Calc from 2145, 2172 & D3588 CURRENT PUBLICATIONS

Reference: Per GPA 2172-14 sec 9

The C6+ is derived from the following ratios of C6, C7 & C8+ respectively: 60% 30% 10%

The data presented herein has been acquired by means of current analytical techniques and represents the judicious conclusion EMPACT Analytical Systems, Inc. Results of the analysis can be affected by the sampling conditions, therefore, are only warranted through proper lab protocol. EMPACT assumes no responsibility for interpretation or any consequences from application of the reported information and is the sole liability of the user. The reproduction in any media of this reported information may not be made, in portion or as a whole, without the written permission of EMPACT Analytical Systems, Inc.