

Gas Analytical Labs

Bossier City, Louisiana
 1408 Alpine Boulevard
 Bossier City, LA 71111

Report Date: Sep 27, 2017 8:24a

Client:	SUMMIT ENVIROMENTAL SERVICES	Date Sampled:	Sep 21, 2017
Client Code:	2516	Analysis Date:	Sep 26, 2017
Site:	1000 GALLON TANK C-743-T-17	Collected By:	JG
Field:	910 - UNKNOWN	Date Effective:	Oct 1, 2017 12:00a
Meter:	923280-1	Source Pressure (PSI):	271.0
Source Laboratory:	Bossier City, LA	Source Temp (°F):	60
Lab File No:	516721946	Field H2O (lb/MMSCFD):	0.0000
Cylinder No:	2382		
Analysis Status:	good		
Sample Type:	Spot		
Measurement Analyst:	<i>Deborah J. Murphy</i>		

Component	Mol %	Liquid Recovery GPM
H2S (H2S)		
Helium (He)		
Nitrogen (N2)	55.5297	0.0000
Oxygen (O2)		
CO2 (CO2)	0.0822	0.0000
Methane (C1)	0.0000	0.0000
Ethane (C2)	0.6581	0.1768
Propane (C3)	43.0560	11.9156
I-Butane (IC4)	0.2423	0.0796
N-Butane (NC4)	0.1070	0.0339
I-Pentane (IC5)	0.0591	0.0217
N-Pentane (NC5)	0.0674	0.0245
Hexanes Plus (C6+)	0.1982	0.0869
TOTAL	100.0000	12.3390

Analytical Results at Base Conditions (Real)	
BTU/SCF (Dry):	1,126.93 BTU/ft ³
BTU/SCF (Saturated):	1,107.76 BTU/ft ³
PSIA:	14.696 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.99525
Z Factor (Saturated):	0.99481

Analytical Results at Contract Conditions (Real)	
BTU/SCF (Dry):	1,129.55 BTU/ft ³
BTU/SCF (Saturated):	1,110.38 BTU/ft ³
PSIA:	14.730 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.99524
Z Factor (Saturated):	0.99481

Calculated Specific Gravities		
Ideal Gravity:	1.2172	Real Gravity: 1.2225
Molecular Wt:	35.2546 lb/lbmol	

Methods, standards, and uncertainties based on
 GPA 2261-13.
 Analytical Calculations performed in accordance with
 GPA 2172-09.

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Client:	SUMMIT ENVIROMENTAL SERVICES	Date Sampled:	Sep 21, 2017
Client Code:	2516	Analysis Date:	Sep 26, 2017
Site:	EMERGENCY GENERATOR TANK EAST TANK C-100	Collected By:	JG
Field:	910 - UNKNOWN	Date Effective:	Oct 1, 2017 12:00a
Meter:	923280-2	Source Pressure (PSI):	55.0
Source Laboratory:	Bossier City, LA	Source Temp (°F):	60
Lab File No:	516721941	Field H2O (lb/MMSCFD):	0.0000
Cylinder No:	6740		
Analysis Status:	good		
Sample Type:	Spot		
Measurement Analyst:	<i>Deborah J. Murphy</i>		

Component	Mol %	Liquid Recovery GPM
H2S (H2S)		
Helium (He)		
Nitrogen (N2)	1.6975	0.0000
Oxygen (O2)		
CO2 (CO2)	0.0171	0.0000
Methane (C1)	0.1747	0.0000
Ethane (C2)	1.3755	0.3742
Propane (C3)	96.2576	26.9731
I-Butane (IC4)	0.3466	0.1154
N-Butane (NC4)	0.0670	0.0215
I-Pentane (IC5)	0.0082	0.0031
N-Pentane (NC5)	0.0042	0.0015
Hexanes Plus (C6+)	0.0516	0.0229
TOTAL	100.0000	27.5117

Analytical Results at Base Conditions (Real)	
BTU/SCF (Dry):	2,507.40 BTU/ft ³
BTU/SCF (Saturated):	2,465.02 BTU/ft ³
PSIA:	14.696 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.98295
Z Factor (Saturated):	0.98237

Analytical Results at Contract Conditions (Real)	
BTU/SCF (Dry):	2,513.30 BTU/ft ³
BTU/SCF (Saturated):	2,470.93 BTU/ft ³
PSIA:	14.730 PSI
Temperature (°F):	60.0 °F
Z Factor (Dry):	0.98291
Z Factor (Saturated):	0.98237

Calculated Specific Gravities		
Ideal Gravity:	1.5077	Real Gravity: 1.5332
Molecular Wt:	43.6675 lb/lbmol	

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 GPA 2172-09.