

Analysis Certificate

Analysis Requested: GPA Standard 2261-13

API: 30-039-06719

Client:	McElvain	Project #:	06039-0058
Site Name:	Scott B 1 (BHD)	Laboratory #:	P605096-09
Meter ID:	Scott B 1 (BHD)	Date Reported:	6/8/2016
Sampled by:	Glenn Hise	Date Sampled:	5/27/2016
Analyzed by:	Alanna Yazzie	Date Received:	5/27/2016
Sample Pressure:	30 psi	Date Analyzed:	6/1/2016
Sample Temperature:	60 F	Analysis Time:	Standard

Components	Mol %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	0.362	0.534		
Carbon Dioxide	0.305	0.706		
Methane	88.327	74.568		
Ethane	5.827	9.221	GPM C2+	3.2476
Propane	2.919	6.774	GPM C3+	1.6765
Iso-Butane	0.611	1.869		
N-Butane	0.694	2.123		
Iso-Pentane	0.26	0.987	GPM iC5+	0.4261
N-Pentane	0.172	0.653		
Hexane Plus	0.523	2.565		
Totals	100.000	100.000		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.997	Base Pressure:	14.73 psi
Ideal Gas Relative Density:	0.658	Base Temperature:	60 F
Dry Molecular Weight:	19.002 g/mol		
Real Gas Dry BTU per ft3:	1161.36 BTU/ft3		

ND = Parameter below the instrument/method detection limit.

N/R = Parameter not recorded

BGB
6/8/16

Reviewer

Date

6/8/2016

Comments: P605096-09

Note: The above analyses are performed in compliance with GPA Standard 2261-13 quality assurance procedures.

References: GPA Standard 2261-13 and GPA Standard 2172-09

Analysis Certificate

Analysis Requested: GPA Standard 2261-13

API: 30-039-06719

Client:	McElvain	Project #:	06039-0058
Site Name:	Scott B 1 (CSG)	Laboratory #:	P605096-10
Meter ID:	Scott B 1 (CSG)	Date Reported:	6/8/2016
Sampled by:	Glenn Hise	Date Sampled:	5/27/2016
Analyzed by:	Alanna Yazzie	Date Received:	5/27/2016
Sample Pressure:	70 psi	Date Analyzed:	6/1/2016
Sample Temperature:	60 F	Analysis Time:	Standard

Components	Mol %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	0.381	0.564		
Carbon Dioxide	0.289	0.673		
Methane	88.609	75.174		
Ethane	5.715	9.088	GPM C2+	3.1579
Propane	2.824	6.585	GPM C3+	1.617
Iso-Butane	0.601	1.847		
N-Butane	0.676	2.078		
Iso-Pentane	0.255	0.973	GPM iC5+	0.4025
N-Pentane	0.166	0.633		
Hexane Plus	0.484	2.385		
Totals	100.000	100.000		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.997	Base Pressure:	14.73 psi
Ideal Gas Relative Density:	0.655	Base Temperature:	60 F
Dry Molecular Weight:	18.91	g/mol	
Real Gas Dry BTU per ft3:	1156.417	BTU/ft3	

ND = Parameter below the instrument/method detection limit.

N/R = Parameter not recorded

BGP
6/8/16

Reviewer

Date

6/8/2016

Comments: P605096-10

Note: The above analyses are performed in compliance with GPA Standard 2261-13 quality assurance procedures.

References: GPA Standard 2261-13 and GPA Standard 2172-09