



Certificate of Analysis
 Number: 6030-21040018-001A

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Apr. 05, 2021

Station Name: Black Marlin Fed Com 214H
 Station Number: 7060184
 Sample Point: Meter Run
 Formation: Quarterly
 County: Lea
 Type of Sample: Spot-Cylinder
 Heat Trace Used: N/A
 Sampling Method: Fill and Purge
 Sampling Company: SPL

Sampled By: James Hill
 Sample Of: Gas Spot
 Sample Date: 03/31/2021 11:06
 Sample Conditions: 117.1 psig, @ 81.6 °F Ambient: 53 °F
 Effective Date: 03/31/2021 11:06
 Method: GPA-2261M
 Cylinder No: 5030-01079
 Instrument: 70104251 (Inficon GC-MicroFusion)
 Last Inst. Cal.: 03/29/2021 0:00 AM
 Analyzed: 04/05/2021 08:42:45 by EJR

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	0.400	0.605		GPM TOTAL C2+	6.744
Nitrogen	1.361	1.354	1.684		GPM TOTAL C3+	3.348
Methane	73.466	73.064	52.033		GPM TOTAL iC5+	0.613
Carbon Dioxide	1.538	1.530	2.989			
Ethane	12.720	12.650	16.886	3.396		
Propane	6.727	6.690	13.096	1.850		
Iso-butane	0.839	0.834	2.152	0.274		
n-Butane	1.943	1.932	4.985	0.611		
Iso-pentane	0.468	0.465	1.489	0.171		
n-Pentane	0.421	0.419	1.342	0.152		
Hexanes Plus	0.666	0.662	2.739	0.290		
	<u>100.149</u>	<u>100.000</u>	<u>100.000</u>	<u>6.744</u>		

Calculated Physical Properties	Total	C6+
Relative Density Real Gas	0.7807	3.2176
Calculated Molecular Weight	22.53	93.19
Compressibility Factor	0.9959	

GPA 2172 Calculation:

Calculated Gross BTU per ft³ @ 14.73 psia & 60°F

Real Gas Dry BTU	1300	5141
Water Sat. Gas Base BTU	1278	5052
Ideal, Gross HV - Dry at 14.73 psia	1295.2	5141.1
Ideal, Gross HV - Wet	1272.6	5051.6
Net BTU Wet Gas - real gas	1161	

Comments: H2S Field Content 0.4 %
 791.8 Mcf/day

Hydrocarbon Laboratory Manager

Quality Assurance: The above analyses are performed in accordance with ASTM, UOP, GPA guidelines for quality assurance, unless otherwise stated.