



Certificate of Analysis
 Number: 6030-21040018-004A

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Apr. 05, 2021

Station Name: Black Marlin Fed Com 204H
 Station Number: 7060185
 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 10:33
 Sample Conditions: 120.3 psig, @ 91.5 °F Ambient: 53 °F
 Effective Date: 03/31/2021 10:33
 Method: GPA-2261M
 Cylinder No: 1111-005483
 Instrument: 70104251 (Inficon GC-MicroFusion)
 Last Inst. Cal.: 04/05/2021 0:00 AM
 Analyzed: 04/05/2021 09:06:15 by EJR

Analytical Data

Components	Un-normalized Mol %	Mol. %	Wt. %	GPM at 14.73 psia		
Hydrogen Sulfide	0.000	1.200	1.765		GPM TOTAL C2+	6.344
Nitrogen	1.121	1.110	1.342		GPM TOTAL C3+	3.557
Methane	73.981	73.257	50.719		GPM TOTAL iC5+	0.999
Carbon Dioxide	2.824	2.796	5.310			
Ethane	10.483	10.381	13.471	2.787		
Propane	5.679	5.624	10.703	1.556		
Iso-butane	1.003	0.993	2.491	0.326		
n-Butane	2.156	2.135	5.355	0.676		
Iso-pentane	0.733	0.726	2.261	0.267		
n-Pentane	0.631	0.625	1.946	0.227		
Hexanes Plus	1.164	1.153	4.637	0.505		
	99.775	100.000	100.000	6.344		

Calculated Physical Properties

	Total	C6+
Relative Density Real Gas	0.8032	3.2176
Calculated Molecular Weight	23.17	93.19
Compressibility Factor	0.9957	

GPA 2172 Calculation:

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

Real Gas Dry BTU	1296	5141
Water Sat. Gas Base BTU	1274	5052
Ideal, Gross HV - Dry at 14.73 psia	1290.9	5141.1
Ideal, Gross HV - Wet	1268.3	5051.6
Net BTU Wet Gas - real gas	1158	

Comments: H2S Field Content 1.2 %
 1907.6 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.