



Certificate of Analysis

Number: 2500-21090206-010A

Greeley Laboratory
2881 S. 31st Ave
Unit 6-8
Greeley, CO 80631

Russ Snowden
Southwestern Energy
390 Yampa Ave
Craig, CO 81625

Oct. 06, 2021

Station Name: Diamond T Sheep 7-92
Sample Point: Meter Run
Cylinder No: 2500-00618
Analyzed: 10/01/2021 20:23:23 by RHJ

Sampled By: Dan Lara
Sample Of: Gas Spot
Sample Date: 09/21/2021 13:45
Sample Conditions: 256 psig, @ 66 °F
Method: GPA 2286

Analytical Data

Components	Mol. %	Wt. %	GPM at 14.73 psia
Nitrogen	0.3808	0.5226	
Carbon Dioxide	1.2838	2.7678	
Methane	80.0886	62.9417	
Ethane	11.0948	16.3431	2.9763
Propane	4.9677	10.7312	1.3728
Iso-Butane	0.5078	1.4459	0.1667
n-Butane	1.1146	3.1736	0.3525
Iso-Pentane	0.2209	0.7808	0.0810
n-Pentane	0.2251	0.7956	0.0819
i-Hexanes	0.0797	0.3363	0.0330
n-Hexane	0.0242	0.1026	0.0100
Benzene	0.0030	0.0116	0.0008
Cyclohexane	0.0008	0.0033	0.0003
i-Heptanes	0.0024	0.0103	0.0009
n-Heptane	0.0007	0.0033	0.0003
Toluene	0.0008	0.0034	0.0003
i-Octanes	0.0016	0.0074	0.0006
n-Octane	0.0004	0.0021	0.0002
2,2,4-Trimethylpentane	NIL	0.0001	NIL
Ethylbenzene	NIL	NIL	NIL
Xylenes	NIL	NIL	NIL
i-Nonanes	NIL	NIL	NIL
n-Nonane	NIL	NIL	NIL
Decane Plus	0.0023	0.0173	0.0015
	100.0000	100.0000	5.0791

Calculated Physical Properties	Total	C10+
Calculated Molecular Weight	20.41	152.62
GPA 2172 Calculation:		
Calculated Gross BTU per ft³ @ 14.73 psia & 60°F		
Real Gas Dry BTU	1213.4	8339.5
Water Sat. Gas Base BTU	1192.2	8167.1
Relative Density Real Gas	0.7069	5.2695
Compressibility Factor	0.9967	

Ryleigh Jacobs

Data reviewed by: Ryleigh Jacobs, Laboratory Analyst

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