

MAY 28 2015



Gas Analysis Certificate

GPA Standard 2261-13

30-045-26665

Method Name au_report_150_C6+
 Last calibration date 1/15/2015 1:00:58 PM

Client:	McElvain Energy	Project #:	06039-0058
Site Name:	Fairfield 1E	Meter ID:	Bradenhead
Sampled by:	Glenn Hise	Date Sampled	05-07-15
Analysed by:	Logan Richter	Date Received:	05-07-15
Sample Pressure:	30 psig	Date Analyzed:	05-13-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) (Mol %)	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.012	0.021	0.001
Nitrogen	0.745	1.148	0.082
Carbon Dioxide	0.000	0.000	0.000
Methane	90.295	79.694	15.308
Ethane	5.419	8.965	1.449
Propane	2.159	5.237	0.595
i-Butane	0.415	1.328	0.136
n-Butane	0.492	1.573	0.155
i-Pentane	0.172	0.681	0.063
n-Pentane	0.108	0.429	0.039
C6+	0.183	0.924	0.080
	100.000	100.000	17.908

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99741	C2+	2.517
Density (G) (Dry Gas)	0.62767	C3+	1.067
Component MW Total	18.18	C5+	0.182
Heating Value (Dry Ideal) Total BTU	1112.33	Heating Value (Sat Ideal) Total BTU	1092.92
Heating Value (Dry Real) Total BTU	1115.22	Heating Value (Sat Real) Total BTU	1095.66

R. Richter
 Reviewed by

05/20/2015
 mm/dd/yyyy



Gas Analysis Certificate

GPA Standard 2261-13

Method Name au_report_150_C6+
Last calibration date 1/15/2015 1:00:58 PM

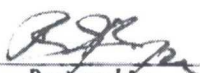
Client:	McElvain Energy	Project #:	06039-0058
Site Name:	Fairfield 1E	Meter ID:	Production Casing
Sampled by:	Glenn Hise	Date Sampled	05-07-15
Analysed by:	Logan Richter	Date Received:	05-07-15
Sample Pressure:	140 psig	Date Analyzed:	05-13-15
Sample Temperature	N/R	Analysis Time:	Standard

Component Results (14.696)

Name	Qty (Norm) [Mol %]	Wt Percent (%)	GPM
Helium	0.000	0.000	0.000
Oxygen	0.011	0.017	0.001
Nitrogen	0.811	1.136	0.089
Carbon Dioxide	0.550	1.212	0.094
Methane	84.203	67.594	14.284
Ethane	7.833	11.786	2.096
Propane	3.458	7.629	0.953
i-Butane	0.527	1.532	0.172
n-Butane	1.203	3.498	0.379
i-Pentane	0.446	1.612	0.163
n-Pentane	0.431	1.555	0.156
C6+	0.528	2.429	0.231
	100.000	100.000	18.620

Calculations at Pressure Base 14.696

Compressibility (Z) (Dry Gas)	0.99680	C2+	4.152
Density (G) (Dry Gas)	0.69024	C3+	2.055
Component MW Total	19.98	C5+	0.550
Heating Value (Dry Ideal) Total BTU	1194.65	Heating Value (Sat Ideal) Total BTU	1173.80
Heating Value (Dry Real) Total BTU	1198.48	Heating Value (Sat Real) Total BTU	1177.44


Reviewed by

5/20/2015
mm/dd/yyyy