



Analysis Certificate

30-045-30875

Analysis Requested: GPA Standard 2261-00

Client:	McElvain Oil and Gas	Project #:	06039-0031
Site Name:	Brown #2	Report Printed Form Date:	5/13/2014
Meter ID:	Brown #2 casing	Date Reported:	N/R
Sampled by:	Glen Hise	Date Sampled:	4/17/2014
Analyzed by:	Logan Richter	Date Received:	4/18/2014
Sample Pressure:	110 psi	Date Analyzed:	5/13/2014
Sample Temperature:	N/R	Analysis Time:	Standard

Components	Mol %	MDC %	Wt %	GPM Total	(gal/Ideal MCF)
Nitrogen	0.112	0.005	0.186		
Carbon Dioxide	2.813	0.253	7.309		
Methane	96.619	0.006	91.52		
Ethane	0.33	0.004	0.586	GPM C2+	0.1291
Propane	0.086	0.003	0.223	GPM C3+	0.0404
Iso-Butane	0.015	0.002	0.051		
N-Butane	0.002	0.002	0.006		
Iso-Pentane	0.005	0.002	0.021	GPM iC5+	0.0108
N-Pentane	0.002	0.002	0.009		
Hexane Plus	0.016	0.003	0.09		
Totals	100		100		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.998	Base Pressure:	14.696 psi
Ideal Gas Relative Density:	0.586	Base Temperature:	60 F
Dry Molecular Weight:	16.972 g/mol		
Real Gas Dry BTU per ft3:	987.568 BTU/ft3		

ND = Parameter not detected at the stated detection limit.

N/R = Parameter not recorded

Analyst
Logan Richter
Printed

Review
Rene Garcia Reyes
Printed

Comments: No comments

Note: The above analyses are performed in compliance with GPA Standard 2261-00 quality assurance procedures.

References: GPA Standard 2261-00 and GPA Standard 2172-09



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Analysis Requested:

GPA Standard 2261-00

Client:	McElvain Oil and Gas	Project #:	06039-0031
Site Name:	Brown #2	Report Printed Form Date:	5/13/2014
Meter ID:	Brown #2 int casing	Date Reported:	N/R
Sampled by:	Glen Hise	Date Sampled:	4/17/2014
Analyzed by:	Logan Richter	Date Received:	4/18/2014
Sample Pressure:	145 psi	Date Analyzed:	5/12/2014
Sample Temperature:	N/R	Analysis Time:	Standard

Components	Mol %	MDC %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	0.136	0.005	0.226		
Carbon Dioxide	2.628	0.253	6.854		
Methane	96.854	0.006	92.085		
Ethane	0.269	0.004	0.478	GPM C2+	0.1079
Propane	0.075	0.003	0.197	GPM C3+	0.0356
Iso-Butane	ND	0.002	ND		
N-Butane	0.016	0.002	0.054		
Iso-Pentane	0.011	0.002	0.045	GPM iC5+	0.0094
N-Pentane	0.004	0.002	0.016		
Hexane Plus	0.008	0.003	0.044		
Totals	100		100		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.998	Base Pressure:	14.696 psi
Ideal Gas Relative Density:	0.584	Base Temperature:	60 F
Dry Molecular Weight:	16.914 g/mol		
Real Gas Dry BTU per ft3:	988.415 BTU/ft3		

ND = Parameter not detected at the stated detection limit.

N/R = Parameter not recorded

Analyst

Logan Richter

Printed

Review

Rene Garcia Reyes

Printed

Comments: No comments

Note: The above analyses are performed in compliance with GPA Standard 2261-00 quality assurance procedures.

References: GPA Standard 2261-00 and GPA Standard 2172-09