



Analysis Certificate

30-045-25859

Analysis Requested:

GPA Standard 2261-00

Client:	McElvain Oil and Gas	Project #:	06039-0031
Site Name:	Kelly Fed #1E	Report Printed Form Date:	5/13/2014
Meter ID:	Kelly Fed #1E 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:	235 psi	Date Analyzed:	5/12/2014
Sample Temperature:	N/R	Analysis Time:	Standard

Components	Mol %	MDC %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	0.127	0.005	0.204		
Carbon Dioxide	1.118	0.253	2.816		
Methane	93.291	0.006	85.622		
Ethane	3.969	0.004	6.827	GPM C2+	1.5364
Propane	0.88	0.003	2.22	GPM C3+	0.4688
Iso-Butane	0.183	0.002	0.608		
N-Butane	0.179	0.002	0.597		
Iso-Pentane	0.13	0.002	0.536	GPM iC5+	0.1028
N-Pentane	0.068	0.002	0.279		
Hexane Plus	0.055	0.003	0.292		
Totals	100		100		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.998	Base Pressure:	14.696 psi
Ideal Gas Relative Density:	0.605	Base Temperature:	60 F
Dry Molecular Weight:	17.522 g/mol		
Real Gas Dry BTU per ft3:	1059.624 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



Analysis Certificate

30-045-2 5859

Analysis Requested:

GPA Standard 2261-00

Client:	McElvain Oil and Gas	Project #:	06039-0031
Site Name:	Kelly Fed #1E	Report Printed Form Date:	5/13/2014
Meter ID:	Kelly Fed #1E bradenhead	Date Reported:	N/R
Sampled by:	Glen Hise	Date Sampled:	4/17/2014
Analyzed by:	Logan Richter	Date Received:	4/18/2014
Sample Pressure:	5 psi	Date Analyzed:	5/13/2014
Sample Temperature:	N/R	Analysis Time:	Standard

Components	Mol %	MDC %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	1.713	0.005	2.62		
Carbon Dioxide	ND	0.253	ND		
Methane	88.766	0.006	77.752		
Ethane	5.528	0.004	9.076	GPM C2+	2.6678
Propane	2.97	0.003	7.152	GPM C3+	1.1807
Iso-Butane	0.375	0.002	1.189		
N-Butane	0.534	0.002	1.694		
Iso-Pentane	0.034	0.002	0.135	GPM iC5+	0.0504
N-Pentane	0.018	0.002	0.072		
Hexane Plus	0.061	0.003	0.31		
Totals	100		100		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.997	Base Pressure:	14.696 psi
Ideal Gas Relative Density:	0.634	Base Temperature:	60 F
Dry Molecular Weight:	18.362 g/mol		
Real Gas Dry BTU per ft3:	1106.789 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: Sample had to be pressurized with He due to low pressure

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



Analysis Certificate

30-045-25859

Analysis Requested:

GPA Standard 2261-00

Client:	McElvain Oil and Gas	Project #:	06039-0031
Site Name:	Kelly Fed #1E	Report Printed Form Date:	5/13/2014
Meter ID:	Kelly Fed #1E 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:	131 psi	Date Analyzed:	5/12/2014
Sample Temperature:	N/R	Analysis Time:	Standard

Components	Mol %	MDC %	Wt %	GPM Total	(gal/ideal MCF)
Nitrogen	0.705	0.005	1.082		
Carbon Dioxide	ND	0.253	ND		
Methane	89.413	0.006	78.557		
Ethane	6.074	0.004	10.002	GPM C2+	2.776
Propane	2.631	0.003	6.353	GPM C3+	1.1421
Iso-Butane	0.346	0.002	1.1		
N-Butane	0.512	0.002	1.628		
Iso-Pentane	0.204	0.002	0.805	GPM iC5+	0.1238
N-Pentane	0.106	0.002	0.42		
Hexane Plus	0.01	0.003	0.052		
Totals	100		100		

GPA Standard 2172-09 Calculations

Compressibility Factor:	0.997	Base Pressure:	14.696 psi
Ideal Gas Relative Density:	0.632	Base Temperature:	60 F
Dry Molecular Weight:	18.304 g/mol		
Real Gas Dry BTU per ft3:	1120.554 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