



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: CP160799
Cust No: 18300-28160

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SHEPARD & KELSEY #1E; BHD
County/State: SAN JUAN NM
Location: D29-29N-11W
Field:
Formation: DK/CH
Cust. Stn. No.: 300452431600

Source: BRADENHEAD
Pressure: 44 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 12/07/2016
Sampled By: FRED GARCIA
Foreman/Engr.: MICHELLE BENTSON

OIL CONS. DIV DIST. 3

JAN 23 2017

Remarks: WO# 21842691

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.033	0.1140	0.00	0.0100
CO2	0.004	0.0010	0.00	0.0001
Methane	92.695	15.7480	936.22	0.5134
Ethane	4.358	1.1680	77.12	0.0452
Propane	1.274	0.3520	32.06	0.0194
Iso-Butane	0.224	0.0730	7.28	0.0045
N-Butane	0.216	0.0680	7.05	0.0043
I-Pentane	0.051	0.0190	2.04	0.0013
N-Pentane	0.028	0.0100	1.12	0.0007
Hexane Plus	0.117	0.0520	6.17	0.0039
Total	100.000	17.6050	1069.06	0.6028

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1074.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1055.3
REAL SPECIFIC GRAVITY: 0.6039

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1068.2
DRY BTU @ 14.696: 1071.5
DRY BTU @ 14.730: 1074.0
DRY BTU @ 15.025: 1095.5

CYLINDER #: K099
CYLINDER PRESSURE: 37 PSIG
DATE RUN: 12/9/16 3:48 PM
ANALYSIS RUN BY: PATRICIA KING

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CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SHEPARD & KELSEY #1E; BHD
Stn. No.: 300452431600
Mtr. No.:

BRADENHEAD
DK/CH

12/14/2016
18300-28160

Smpl Date: 12/07/2016
Test Date: 12/09/2016
Run No: CP160799

Nitrogen: 1.033
CO2: 0.004
Methane: 92.695
Ethane: 4.358
Propane: 1.274
I-Butane: 0.224
N-Butane: 0.216
I-Pentane: 0.051
N-Pentane: 0.028
Hexane+: 0.117

BTU: 1074.0
GPM: 17.6050
SPG: 0.6039



2030 Afton Place
Farmington, NM 87401
(505) 325-6622

Analysis No: CP160800
Cust No: 18300-28165

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SHEPARD & KELSEY #1E; CSG
County/State: SAN JUAN NM
Location: D29-29N-11W
Field:
Formation: DK/CH
Cust. Str. No.: 300452431600

Source: CASING
Pressure: 146 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 12/07/2016
Sampled By: FRED GARCIA
Foreman/Engr.: MICHELLE BENTSON

OIL CONS. DIV DIST. 3

JAN 23 2017

Remarks: WO# 21842691

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.742	0.0820	0.00	0.0072
CO2	0.293	0.0500	0.00	0.0045
Methane	88.340	15.0140	892.23	0.4893
Ethane	5.796	1.5540	102.57	0.0602
Propane	2.983	0.8240	75.06	0.0454
Iso-Butane	0.469	0.1540	15.25	0.0094
N-Butane	0.725	0.2290	23.65	0.0145
I-Pentane	0.221	0.0810	8.84	0.0055
N-Pentane	0.153	0.0560	6.13	0.0038
Hexane Plus	0.278	0.1240	14.65	0.0092
Total	100.000	18.1680	1138.39	0.6490

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0028
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1144.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1124.3
REAL SPECIFIC GRAVITY: 0.6506

GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.

DRY BTU @ 14.650: 1138.0
DRY BTU @ 14.696: 1141.6
DRY BTU @ 14.730: 1144.2
DRY BTU @ 15.025: 1167.1

CYLINDER #: K048
CYLINDER PRESSURE: 160 PSIG
DATE RUN: 12/9/16 3:50 PM
ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease:	SHEPARD & KELSEY #1E; CSG	CASING	12/14/2016
Stn. No.:	300452431600	DK/CH	18300-28165
Mtr. No.:			

Smpl Date:	12/07/2016
Test Date:	12/09/2016
Run No:	CP160800
Nitrogen:	0.742
CO2:	0.293
Methane:	88.340
Ethane:	5.796
Propane:	2.983
I-Butane:	0.469
N-Butane:	0.725
I-Pentane:	0.221
N-Pentane:	0.153
Hexane+:	0.278
BTU:	1144.2
GPM:	18.1680
SPG:	0.6506