



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

Analysis No: CP170238
Cust No: 18300-28370

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: **GRENIER B #4E; BHD**
County/State:
Location:
Field:
Formation:
Cust. Stn. No.: 35829
API 3004529406

Source: **BRADENHEAD**
Pressure: 121 PSIG
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 05/25/2017
Sampled By: DEWAYNE P.
Foreman/Engr.: PHILLIP O.

OIL CONS. DIV DIST. 3
JUN 08 2017

Remarks: W/O # 9275856

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.870	0.2060	0.00	0.0181
CO2	0.004	0.0010	0.00	0.0001
Methane	91.509	15.5450	924.24	0.5069
Ethane	4.643	1.2440	82.17	0.0482
Propane	1.297	0.3580	32.63	0.0197
Iso-Butane	0.282	0.0920	9.17	0.0057
N-Butane	0.235	0.0740	7.67	0.0047
I-Pentane	0.082	0.0300	3.28	0.0020
N-Pentane	0.031	0.0110	1.24	0.0008
Hexane Plus	0.047	0.0210	2.48	0.0016
Total	100.000	17.5820	1062.88	0.6077

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1067.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1049.2
REAL SPECIFIC GRAVITY: 0.6089

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

DRY BTU @ 14.650: 1062.0
DRY BTU @ 14.696: 1065.3
DRY BTU @ 14.730: 1067.8
DRY BTU @ 15.025: 1089.2

CYLINDER #: 6043
CYLINDER PRESSURE: 119 PSIG
DATE RUN: **6/5/17** 9:39 AM
ANALYSIS RUN BY: SHYANN ELLEDGE



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: GRENIER B #4E; BHD
Stn. No.: 35829
Mtr. No.: API 3004529406

BRADENHEAD

06/07/2017
18300-28370

Smpl Date: 05/25/2017
Test Date: 06/05/2017
Run No: CP170238

Nitrogen: 1.870
CO2: 0.004
Methane: 91.509
Ethane: 4.643
Propane: 1.297
I-Butane: 0.282
N-Butane: 0.235
I-Pentane: 0.082
N-Pentane: 0.031
Hexane+: 0.047

BTU: 1067.8
GPM: 17.5820
SPG: 0.6089



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

Analysis No: CP170239
Cust No: 18300-28375

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: **GRENIER B #4E; CSG**
County/State:
Location:
Field:
Formation:
Cust. Stn. No.: 35829
API 3004529406

Source: **CASING**
Pressure: 544 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 05/25/2017
Sampled By: DEWAYNE P.
Foreman/Engr.: PHILLIP O.

*OIL CONS. DIV DIST. 3
JUN 08 2017*

Remarks: W/O # 9275856

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.887	0.0980	0.00	0.0086
CO2	0.263	0.0450	0.00	0.0040
Methane	87.328	14.8440	882.01	0.4837
Ethane	6.012	1.6120	106.40	0.0624
Propane	3.595	0.9930	90.45	0.0547
Iso-Butane	0.436	0.1430	14.18	0.0087
N-Butane	0.860	0.2720	28.06	0.0173
I-Pentane	0.210	0.0770	8.40	0.0052
N-Pentane	0.166	0.0600	6.65	0.0041
Hexane Plus	0.243	0.1090	12.81	0.0080
Total	100.000	18.2530	1148.96	0.6569

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1155.0
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1134.9
REAL SPECIFIC GRAVITY: 0.6585

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

DRY BTU @ 14.650: 1148.7
DRY BTU @ 14.696: 1152.3
DRY BTU @ 14.730: 1155.0
DRY BTU @ 15.025: 1178.1

CYLINDER #: 6111
CYLINDER PRESSURE: 553 PSIG
DATE RUN: 6/5/17 9:40 AM
ANALYSIS RUN BY: SHYANN ELLEDGE



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: GRENIER B #4E; CSG
Stn. No.: 35829
Mtr. No.: API 3004529406

CASING

06/07/2017
18300-28375

Smpl Date: 05/25/2017
Test Date: 06/05/2017
Run No: CP170239

Nitrogen: 0.887
CO2: 0.263
Methane: 87.328
Ethane: 6.012
Propane: 3.595
I-Butane: 0.436
N-Butane: 0.860
I-Pentane: 0.210
N-Pentane: 0.166
Hexane+: 0.243

BTU: 1155.0
GPM: 18.2530
SPG: 0.6585