



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

Analysis No: CP140190
Cust No: 18300-25635

30-039-26367

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: SAN JUAN 30-5 #48M
County/State: RIO ARRIBA NM
Location: I20-30N-05W
Field:
Formation: MV/DK
Cust. Stn. No.: AM00345626NO

Source: CASING
Pressure: 156 PSIA
Sample Temp: DEG. F
Well Flowing: Y
Date Sampled: 02/19/2014
Sampled By: SHAD BROWN
Foreman/Engr.: OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.133	0.0150	0.00	0.0013
CO2	1.503	0.2570	0.00	0.0228
Methane	87.973	14.9510	888.53	0.4873
Ethane	7.349	1.9700	130.06	0.0763
Propane	2.039	0.5630	51.30	0.0310
Iso-Butane	0.259	0.0850	8.42	0.0052
N-Butane	0.351	0.1110	11.45	0.0070
I-Pentane	0.111	0.0410	4.44	0.0028
N-Pentane	0.068	0.0250	2.73	0.0017
Hexane Plus	0.214	0.0960	11.28	0.0071
Total	100.000	18.1140	1108.21	0.6425

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0027
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1113.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1094.4
REAL SPECIFIC GRAVITY: 0.644

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

DRY BTU @ 14.650: 1107.8
DRY BTU @ 14.696: 1111.2
DRY BTU @ 14.730: 1113.8
DRY BTU @ 15.025: 1136.1

CYLINDER #: 217
CYLINDER PRESSURE: 158 PSIG
DATE RUN: 3/20/14 2:00 PM
ANALYSIS RUN BY: DAWN BLASSINGAME



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #48M
Stn. No.: AM00345626NO
Mtr. No.:

CASING
MV/DK

03/25/2014
18300-25635

Smpl Date: 02/19/2014
Test Date: 03/20/2014
Run No: CP140190
Nitrogen: 0.133
CO2: 1.503
Methane: 87.973
Ethane: 7.349
Propane: 2.039
i-Butane: 0.259
N-Butane: 0.351
I-Pentane: 0.111
N-Pentane: 0.068
Hexane+: 0.214
BTU: 1113.8
GPM: 18.1140
SPG: 0.6440



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

Analysis No: CP140191
Cust No: 18300-25640

Well/Lease Information

Customer Name:	CONOCO PHILLIPS COMPANY	Source:	INTERMEDIATE
Well Name:	SAN JUAN 30-5 #48M	Pressure:	30.1 PSIG
County/State:	RIO ARRIBA NM	Sample Temp:	DEG. F
Location:	I20-30N-05W	Well Flowing:	Y
Field:		Date Sampled:	02/19/2014
Formation:	MV/DK	Sampled By:	SHAD BROWN
Cust. Stn. No.:	AM00345626NO	Foreman/Engr.:	

OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.899	0.0990	0.00	0.0087
CO2	0.020	0.0030	0.00	0.0003
Methane	92.772	15.7610	937.00	0.5139
Ethane	4.111	1.1020	72.75	0.0427
Propane	1.363	0.3760	34.29	0.0208
Iso-Butane	0.206	0.0680	6.70	0.0041
N-Butane	0.260	0.0820	8.48	0.0052
I-Pentane	0.080	0.0290	3.20	0.0020
N-Pentane	0.051	0.0190	2.04	0.0013
Hexane Plus	0.238	0.1060	12.55	0.0079
Total	100.000	17.6450	1077.02	0.6068

* @ 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): 1082.1
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1063.3
 REAL SPECIFIC GRAVITY: 0.608

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

DRY BTU @ 14.650: 1076.2
 DRY BTU @ 14.696: 1079.6
 DRY BTU @ 14.730: 1082.1
 DRY BTU @ 15.025: 1103.8

CYLINDER #: 128
 CYLINDER PRESSURE: 30 PSIG
 DATE RUN: 3/20/14 1:26 PM
 ANALYSIS RUN BY: LOGAN CHENEY



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #48M
Stn. No.: AM00345626NO
Mtr. No.:

INTERMEDIATE
MV/DK

03/25/2014
18300-25640

Smpl Date: 02/19/2014
Test Date: 03/20/2014
Run No: CP140191
Nitrogen: 0.899
CO2: 0.020
Methane: 92.772
Ethane: 4.111
Propane: 1.363
I-Butane: 0.206
N-Butane: 0.260
I-Pentane: 0.080
N-Pentane: 0.051
Hexane+: 0.238
BTU: 1082.1
GPM: 17.6450
SPG: 0.6080



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

Analysis No: CP140206
 Cust No: 18300-25715

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
 Well Name: SAN JUAN 30-5 #48M
 County/State: RIO ARRIBA NM
 Location: I02-30N-05W
 Field:
 Formation: MV/DK
 Cust. Stn. No.: AM00345626NO

Source: BRADENHEAD
 Pressure: 34.3 PSIG
 Sample Temp: DEG. F
 Well Flowing: Y
 Date Sampled: 02/19/2014
 Sampled By: SHAD BTOWN
 Foreman/Engr.: CHANDLER WITTLE

OIL CONS. DIV DIST. 3
MAY 14 2014

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.374	0.1510	0.00	0.0133
CO2	0.024	0.0040	0.00	0.0004
Methane	93.325	15.8520	942.58	0.5169
Ethane	4.833	1.2950	85.53	0.0502
Propane	0.172	0.0470	4.33	0.0026
Iso-Butane	0.061	0.0200	1.98	0.0012
N-Butane	0.026	0.0080	0.85	0.0005
I-Pentane	0.019	0.0070	0.76	0.0005
N-Pentane	0.008	0.0030	0.32	0.0002
Hexane Plus	0.158	0.0710	8.33	0.0052
Total	100.000	17.4580	1044.68	0.5910

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0022
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1049.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1031.1
 REAL SPECIFIC GRAVITY: 0.5921

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

DRY BTU @ 14.650: 1043.7
 DRY BTU @ 14.696: 1047.0
 DRY BTU @ 14.730: 1049.4
 DRY BTU @ 15.025: 1070.4

CYLINDER #: 123
 CYLINDER PRESSURE: 33 PSIG
 DATE RUN: 3/25/14 4:07 PM
 ANALYSIS RUN BY: LOGAN CHENEY



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: SAN JUAN 30-5 #48M
Str. No.: AM00345626NO
Mtr. No.:

BRADENHEAD
MV/DK

03/26/2014
18300-25715

Smpl Date: 02/19/2014
Test Date: 03/25/2014
Run No: CP140206
Nitrogen: 1.374
CO2: 0.024
Methane: 93.325
Ethane: 4.833
Propane: 0.172
I-Butane: 0.061
N-Butane: 0.026
I-Pentane: 0.019
N-Pentane: 0.008
Hexane+: 0.158
BTU: 1049.4
GPM: 17.4580
SPG: 0.5921