



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

Analysis No: CP120636
Cust No: 18300-23600

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: PHILLIPS 1E
County/State: SAN JUAN NM
Location: B16-28N-11W
Field:
Formation: DK
Cust. Stn. No.: 06733007
A706265SM

Source: BRADENHEAD
Pressure: 80 PSIG
Sample Temp: 90 DEG. F
Well Flowing: N
Date Sampled: 07/25/2012
Sampled By: KIRK
Foreman/Engr.: D. LEBOUF

Remarks: LEASE #NM013365

OIL CONS. DIV DIST. 3

MAY 14 2014

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.935	0.1030	0.00	0.0090
CO2	0.017	0.0030	0.00	0.0003
Methane	90.083	15.3080	909.84	0.4990
Ethane	5.681	1.5230	100.54	0.0590
Propane	2.069	0.5710	52.06	0.0315
Iso-Butane	0.353	0.1160	11.48	0.0071
N-Butane	0.436	0.1380	14.22	0.0087
I-Pentane	0.138	0.0510	5.52	0.0034
N-Pentane	0.085	0.0310	3.41	0.0021
Hexane Plus	0.203	0.0910	10.70	0.0067
Total	100.000	17.9350	1107.76	0.6269

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0026
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1113.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1093.8
REAL SPECIFIC GRAVITY: 0.6282

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

DRY BTU @ 14.650: 1107.2
DRY BTU @ 14.696: 1110.6
DRY BTU @ 14.730: 1113.2
DRY BTU @ 15.025: 1135.5

CYLINDER #: 7023
CYLINDER PRESSURE: 29 PSIG
DATE RUN: 7/31/12 10:25 AM
ANALYSIS RUN BY: BRANDY MEDFORD



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS 1E
Str. No.: 06733007
Mtr. No.: A706265SM

BRADENHEAD
DK

03/04/2014
18300-23600

Smpl Date: 07/25/2012
Test Date: 07/31/2012
Run No: CP120636
Nitrogen: 0.935
CO2: 0.017
Methane: 90.083
Ethane: 5.681
Propane: 2.069
I-Butane: 0.353
N-Butane: 0.436
I-Pentane: 0.138
N-Pentane: 0.085
Hexane+: 0.203
BTU: 1113.2
GPM: 17.9350
SPG: 0.6282



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

Analysis No: CP130801
Cust No: 18300-23660

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: PHILLIPS #1E
County/State: SAN JUAN NM
Location:
Field:
Formation: DK
Cust. Stn. No.: 06733007
9268733

Source: CASING
Pressure: 18 PSIG
Sample Temp: 68 DEG. F
Well Flowing: Y
Date Sampled: 10/29/2013
Sampled By: JADE SALES
Foreman/Engr.:

OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.311	0.0340	0.00	0.0030
CO2	1.581	0.2710	0.00	0.0240
Methane	82.056	13.9580	828.77	0.4545
Ethane	8.710	2.3370	154.14	0.0904
Propane	3.439	0.9510	86.53	0.0524
Iso-Butane	0.737	0.2420	23.97	0.0148
N-Butane	1.069	0.3380	34.87	0.0215
I-Pentane	0.493	0.1810	19.72	0.0123
N-Pentane	0.364	0.1320	14.59	0.0091
Hexane Plus	1.240	0.5550	65.36	0.0410
Total	100.000	18.9990	1227.95	0.7230

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0036
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1235.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1213.7
REAL SPECIFIC GRAVITY: 0.7253

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

DRY BTU @ 14.650: 1228.5
DRY BTU @ 14.696: 1232.3
DRY BTU @ 14.730: 1235.2
DRY BTU @ 15.025: 1259.9

CYLINDER #: 47
CYLINDER PRESSURE: 27 PSIG
DATE RUN: 11/5/13 10:29 AM
ANALYSIS RUN BY: LOGAN CHENEY



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS #1E
Stn. No.: 06733007
Mtr. No.: 9268733

CASING
DK

03/04/2014
18300-23660

Smpl Date:	10/29/2013	04/24/2013	08/14/2012
Test Date:	11/05/2013	05/07/2013	08/16/2012
Run No:	CP130801	CP130371	CP120657
Nitrogen:	0.311	0.328	0.344
CO2:	1.581	1.560	1.560
Methane:	82.056	82.785	82.082
Ethane:	8.710	8.628	7.948
Propane:	3.439	3.234	3.034
I-Butane:	0.737	0.675	0.688
N-Butane:	1.069	0.935	1.053
I-Pentane:	0.493	0.423	0.664
N-Pentane:	0.364	0.300	0.573
Hexane+:	1.240	1.132	2.054
BTU:	1235.2	1218.2	1268.3
GPM:	18.9990	18.8790	19.1730
SPG:	0.7253	0.7142	0.7467



30-045-23993

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

Analysis No: CP120281
Cust No: 18300-15055

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: PHILLIPS 1E
County/State: SAN JUAN NM
Location: 16B-28N-11W
Field:
Formation:
Cust. Stn. No.: 06733007
A706265SM

Source:
Pressure: 17 PSIG
Sample Temp: 63 DEG. F
Well Flowing: Y
Date Sampled: 04/20/2012
Sampled By: JADE SALES
Foreman/Engr.:

OIL CONS. DIV DIST. 3
MAY 14 2014

Remarks: H2S = .5 PPM

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.337	0.0370	0.00	0.0033
CO2	1.524	0.2610	0.00	0.0232
Methane	82.002	13.9500	828.22	0.4542
Ethane	8.607	2.3100	152.32	0.0894
Propane	3.320	0.9180	83.53	0.0505
Iso-Butane	0.703	0.2310	22.86	0.0141
N-Butane	1.012	0.3200	33.01	0.0203
I-Pentane	0.458	0.1680	18.32	0.0114
N-Pentane	0.341	0.1240	13.67	0.0085
Hexane Plus	1.696	0.7590	89.40	0.0561
Total	100.000	19.0780	1241.34	0.7310

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1248.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1227.1
REAL SPECIFIC GRAVITY: 0.7334

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

DRY BTU @ 14.650: 1242.0
DRY BTU @ 14.696: 1245.9
DRY BTU @ 14.730: 1248.8
DRY BTU @ 15.025: 1273.8

CYLINDER #: 6097
CYLINDER PRESSURE: 11 PSIG
DATE RUN: 5/10/12 11:25 AM
ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS 1E
 Stn. No.: 06733007
 Mtr. No.: A706265SM

03/04/2014
 18300-15055

Smpl Date:	04/20/2012	11/04/2011	04/27/2011	10/25/2010	04/28/2010	10/28/2009	07/28/2009
Test Date:	05/10/2012	11/11/2011	05/02/2011	10/27/2010	05/11/2010	11/06/2009	08/04/2009
Run No:	CP120281	CP111032	CP110215	CP100783	CP100219	CP291049	CP290837
Nitrogen:	0.337	0.321	0.331	0.441	0.767	0.478	0.629
CO2:	1.524	1.574	1.575	1.530	1.573	1.550	1.465
Methane:	82.002	82.639	82.347	82.819	81.634	82.253	83.120
Ethane:	8.607	8.883	8.804	8.761	8.502	8.840	8.195
Propane:	3.320	3.402	3.383	3.352	3.280	3.462	2.940
I-Butane:	0.703	0.698	0.708	0.692	0.703	0.722	0.616
N-Butane:	1.012	0.979	1.000	0.966	1.006	1.022	0.822
I-Pentane:	0.458	0.410	0.444	0.415	0.489	0.450	0.384
N-Pentane:	0.341	0.294	0.323	0.298	0.371	0.329	0.278
Hexane+:	1.696	0.800	1.085	0.726	1.675	0.894	1.551
BTU:	1248.8	1209.3	1223.3	1203.5	1243.4	1215.9	1219.9
GPM:	19.0780	18.8350	18.9230	18.7820	19.0480	18.8730	18.8750
SPG:	0.7334	0.7086	0.7177	0.7054	0.7353	0.7136	0.7162
	04/29/2009	01/08/2009	10/23/2008	07/03/2008	01/17/2008	10/29/2007	07/09/2007
	05/07/2009	01/12/2009	10/27/2008	07/18/2008	01/23/2008	10/31/2007	07/11/2007
	CP290517	CP290050	CP280779	CP280483	CP280058	CP270659	CP270478
	0.359	0.360	0.381	0.340	0.319	0.320	0.366
	1.514	1.492	1.508	1.515	1.435	1.471	1.456
	82.641	79.751	81.312	83.001	82.058	82.872	82.711
	8.650	8.426	8.644	8.539	8.291	8.401	8.396
	3.273	3.293	3.334	3.247	3.244	3.085	2.974
	0.683	0.725	0.712	0.674	0.670	0.660	0.643
	0.957	1.051	1.009	0.929	0.939	0.914	0.885
	0.430	0.589	0.480	0.423	0.504	0.409	1.405
	0.311	0.466	0.358	0.310	0.371	0.306	0.252
	1.182	3.847	2.262	1.022	2.169	1.562	0.912
	1222.0	1347.6	1274.9	1213.5	1266.8	1232.9	1230.1
	18.9160	19.7370	19.2500	18.8340	19.1750	18.9630	18.9470
	0.7154	0.7946	0.7507	0.7105	0.7435	0.7222	0.7207



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS 1E
 Stn. No.: 06733007
 Mtr. No.: A706265SM

03/04/2014
 18300-15055

04/19/2007	01/12/2007	10/31/2006	07/21/2006	04/06/2006	01/09/2006	07/01/2005
04/26/2007	01/16/2007	11/08/2006	07/25/2006	04/17/2006	01/12/2006	07/12/2005
CP270282	CP270075	CP260665	PP260425	CP260208	CP260024	CP250385
0.326	0.328	0.303	0.323	0.337	0.325	0.316
1.527	1.503	1.493	1.501	1.472	1.440	1.515
82.400	82.929	82.666	83.088	83.957	84.800	83.178
8.676	8.693	8.647	8.576	7.917	8.292	8.638
3.308	3.318	3.284	3.198	3.510	2.864	3.020
0.698	0.696	0.699	0.659	0.660	0.557	0.660
0.980	0.960	0.987	0.904	0.869	0.737	0.931
0.444	0.417	0.447	0.393	0.326	0.298	0.447
0.331	0.302	0.331	0.288	0.222	0.213	0.302
1.310	0.854	1.143	1.070	0.730	0.474	0.993
1231.1	1208.3	1222.3	1211.4	1192.1	1168.5	1209.1
18.9720	18.8150	18.9230	18.8300	18.6730	18.5270	18.8210
0.7221	0.7070	0.7154	0.7087	0.6960	0.6810	0.7078
04/06/2005	01/24/2005	10/25/2004	05/13/2004	11/20/2003		
04/14/2005	01/26/2005	11/02/2004	05/20/2004	11/24/2003		
CP250154	CP250014	CP240388	CP240151	CP230279		
0.302	0.316	0.316	0.316	0.318		
1.493	1.452	1.441	1.455	1.473		
82.697	84.289	84.784	83.135	83.190		
8.569	8.394	8.197	8.550	8.393		
2.651	2.498	2.373	3.178	3.090		
0.702	0.645	0.605	0.659	0.642		
1.001	0.887	0.808	0.912	0.884		
0.464	0.413	0.343	0.402	0.398		
0.348	0.285	0.222	0.295	0.294		
1.773	0.821	0.911	1.098	1.318		
1240.7	1189.6	1183.4	1213.8	1219.3		
19.0250	18.6710	18.6210	18.8430	18.8760		
0.7279	0.6942	0.6899	0.7098	0.7136		



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

Analysis No: CP120281
Cust No: 18300-15055

Well/Lease Information

Customer Name: CONOCO PHILLIPS COMPANY
Well Name: PHILLIPS 1E
County/State: SAN JUAN NM
Location: 16B-28N-11W
Field:
Formation:
Cust. Stn. No.: 06733007
A706265SM

Source:
Pressure: 17 PSIG
Sample Temp: 63 DEG. F
Well Flowing: Y
Date Sampled: 04/20/2012
Sampled By: JADE SALES
Foreman/Engr.:

OIL CONS. DIV DIST. 3

MAY 14 2014

Remarks: H2S = .5 PPM

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.337	0.0370	0.00	0.0033
CO2	1.524	0.2610	0.00	0.0232
Methane	82.002	13.9500	828.22	0.4542
Ethane	8.607	2.3100	152.32	0.0894
Propane	3.320	0.9180	83.53	0.0505
Iso-Butane	0.703	0.2310	22.86	0.0141
N-Butane	1.012	0.3200	33.01	0.0203
I-Pentane	0.458	0.1680	18.32	0.0114
N-Pentane	0.341	0.1240	13.67	0.0085
Hexane Plus	1.696	0.7590	89.40	0.0561
Total	100.000	19.0780	1241.34	0.7310

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0037
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1248.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1227.1
REAL SPECIFIC GRAVITY: 0.7334

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

DRY BTU @ 14.650: 1242.0
DRY BTU @ 14.696: 1245.9
DRY BTU @ 14.730: 1248.8
DRY BTU @ 15.025: 1273.8

CYLINDER #: 6097
CYLINDER PRESSURE: 11 PSIG
DATE RUN: 5/10/12 11:25 AM
ANALYSIS RUN BY: PATRICIA KING



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS 1E
 Stn. No.: 06733007
 Mtr. No.: A706265SM

03/04/2014
 18300-15055

Smpl Date:	04/20/2012	11/04/2011	04/27/2011	10/25/2010	04/28/2010	10/28/2009	07/28/2009
Test Date:	05/10/2012	11/11/2011	05/02/2011	10/27/2010	05/11/2010	11/06/2009	08/04/2009
Run No:	CP120281	CP111032	CP110215	CP100783	CP100219	CP291049	CP290837
Nitrogen:	0.337	0.321	0.331	0.441	0.767	0.478	0.629
CO2:	1.524	1.574	1.575	1.530	1.573	1.550	1.465
Methane:	82.002	82.639	82.347	82.819	81.634	82.253	83.120
Ethane:	8.607	8.883	8.804	8.761	8.502	8.840	8.195
Propane:	3.320	3.402	3.383	3.352	3.280	3.462	2.940
I-Butane:	0.703	0.698	0.708	0.692	0.703	0.722	0.616
N-Butane:	1.012	0.979	1.000	0.966	1.006	1.022	0.822
I-Pentane:	0.458	0.410	0.444	0.415	0.489	0.450	0.384
N-Pentane:	0.341	0.294	0.323	0.298	0.371	0.329	0.278
Hexane+:	1.696	0.800	1.085	0.726	1.675	0.894	1.551
BTU:	1248.8	1209.3	1223.3	1203.5	1243.4	1215.9	1219.9
GPM:	19.0780	18.8350	18.9230	18.7820	19.0480	18.8730	18.8750
SPG:	0.7334	0.7086	0.7177	0.7054	0.7353	0.7136	0.7162
	04/29/2009	01/08/2009	10/23/2008	07/03/2008	01/17/2008	10/29/2007	07/09/2007
	05/07/2009	01/12/2009	10/27/2008	07/18/2008	01/23/2008	10/31/2007	07/11/2007
	CP290517	CP290050	CP280779	CP280483	CP280058	CP270659	CP270478
	0.359	0.360	0.381	0.340	0.319	0.320	0.366
	1.514	1.492	1.508	1.515	1.435	1.471	1.456
	82.641	79.751	81.312	83.001	82.058	82.872	82.711
	8.650	8.426	8.644	8.539	8.291	8.401	8.396
	3.273	3.293	3.334	3.247	3.244	3.085	2.974
	0.683	0.725	0.712	0.674	0.670	0.660	0.643
	0.957	1.051	1.009	0.929	0.939	0.914	0.885
	0.430	0.589	0.480	0.423	0.504	0.409	1.405
	0.311	0.466	0.358	0.310	0.371	0.306	0.252
	1.182	3.847	2.262	1.022	2.169	1.562	0.912
	1222.0	1347.6	1274.9	1213.5	1266.8	1232.9	1230.1
	18.9160	19.7370	19.2500	18.8340	19.1750	18.9630	18.9470
	0.7154	0.7946	0.7507	0.7105	0.7435	0.7222	0.7207



CONOCO PHILLIPS COMPANY
WELL ANALYSIS COMPARISON

Lease: PHILLIPS 1E
 Str. No.: 06733007
 Mtr. No.: A706265SM

03/04/2014
 18300-15055

04/19/2007	01/12/2007	10/31/2006	07/21/2006	04/06/2006	01/09/2006	07/01/2005
04/26/2007	01/16/2007	11/08/2006	07/25/2006	04/17/2006	01/12/2006	07/12/2005
CP270282	CP270075	CP260665	PP260425	CP260208	CP260024	CP250385
0.326	0.328	0.303	0.323	0.337	0.325	0.316
1.527	1.503	1.493	1.501	1.472	1.440	1.515
82.400	82.929	82.666	83.088	83.957	84.800	83.178
8.676	8.693	8.647	8.576	7.917	8.292	8.638
3.308	3.318	3.284	3.198	3.510	2.864	3.020
0.698	0.696	0.699	0.659	0.660	0.557	0.660
0.980	0.960	0.987	0.904	0.869	0.737	0.931
0.444	0.417	0.447	0.393	0.326	0.298	0.447
0.331	0.302	0.331	0.288	0.222	0.213	0.302
1.310	0.854	1.143	1.070	0.730	0.474	0.993
1231.1	1208.3	1222.3	1211.4	1192.1	1168.5	1209.1
18.9720	18.8150	18.9230	18.8300	18.6730	18.5270	18.8210
0.7221	0.7070	0.7154	0.7087	0.6960	0.6810	0.7078
04/06/2005	01/24/2005	10/25/2004	05/13/2004	11/20/2003		
04/14/2005	01/26/2005	11/02/2004	05/20/2004	11/24/2003		
CP250154	CP250014	CP240388	CP240151	CP230279		
0.302	0.316	0.316	0.316	0.318		
1.493	1.452	1.441	1.455	1.473		
82.697	84.289	84.784	83.135	83.190		
8.569	8.394	8.197	8.550	8.393		
2.651	2.498	2.373	3.178	3.090		
0.702	0.645	0.605	0.659	0.642		
1.001	0.887	0.808	0.912	0.884		
0.464	0.413	0.343	0.402	0.398		
0.348	0.285	0.222	0.295	0.294		
1.773	0.821	0.911	1.098	1.318		
1240.7	1189.6	1183.4	1213.8	1219.3		
19.0250	18.6710	18.6210	18.8430	18.8760		
0.7279	0.6942	0.6899	0.7098	0.7136		