GAS ANALYSIS SERVICE

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

OIL CONS. DIV DIST. 3

AUG 15 2014

API# 3004532905

30-045-32905

Analysis No: CP140650
Cust No: 18300-26305

Well/Lease Information

Customer Name:	CONOCO PHILLIPS COMPANY	Source:	BRADENHEAD
Well Name:	HARE 16M; BHD	Pressure:	PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:	E03-29N-10W	Well Flowing:	Y
Field:		Date Sampled:	07/23/2014
Formation:	MV/DK	Sampled By:	CHERRI IVY
Cust. Stn. No.:	AM02305911NO	Foreman/Engr.:	DAVID BEST

Remarks: HAD 0 LBS. PRESSURE WHEN OPENING THE VALVE.
PRESSUSRE WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.411	0.0450	0.00	0.0040
CO2	0.010	0.0020	0.00	0.0002
Methane	78.650	13.3930	794.37	0.4356
Ethane	6.947	1.8660	122.94	0.0721
Propane	6.105	1.6890	153.60	0.0929
Iso-Butane	1.832	0.6020	59.57	0.0368
N-Butane	1.983	0.6280	64.69	0.0398
I-Pentane	0.985	0.3620	39.41	0.0245
N-Pentane	0.712	0.2590	28.54	0.0177
Hexane Plus	2.365	1.0590	124.66	0.0783
Total	100.000	19.9050	1387.78	0.8019

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0047
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1397.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1373.3
REAL SPECIFIC GRAVITY:	0.8054

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

DRY BTU @ 14.650:	1390.0	CYLINDER #:	021
DRY BTU @ 14.696:	1394.4	CYLINDER PRESSURE:	PSIG
DRY BTU @ 14.730:	1397.6	DATE RUN:	7/24/14 10:04 AM
DRY BTU @ 15.025:	1425.6	ANALYSIS RUN BY:	PATRICIA KING

2030 Afton Place
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Analysis No: CP140651
Cust No: 18300-26310

Well/Lease Information

Customer Name:	CONOCO PHILLIPS COMPANY	Source:	CASING
Well Name:	HARE 16M; CSG	Pressure:	PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:	E03-29N-10W	Well Flowing:	Y
Field:		Date Sampled:	07/23/2014
Formation:	MV/DK	Sampled By:	CHERRI IVY
Cust. Stn. No.:	AM02305911NO	Foreman/Engr.:	DAVID BEST

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.324	0.0360	0.00	0.0031
CO2	1.120	0.1920	0.00	0.0170
Methane	77.605	13.2110	783.81	0.4299
Ethane	8.955	2.4050	158.48	0.0930
Propane	5.407	1.4960	136.05	0.0823
Iso-Butane	1.453	0.4770	47.25	0.0292
N-Butane	1.773	0.5610	57.84	0.0356
I-Pentane	0.960	0.3530	38.41	0.0239
N-Pentane	0.772	0.2810	30.95	0.0192
Hexane Plus	1.631	0.7300	85.97	0.0540
Total	100.000	19.7420	1338.75	0.7872

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR	(1/Z):	1.0044
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):		1347.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z):		1324.3
REAL SPECIFIC GRAVITY:		0.7903

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

DRY BTU @ 14.650:	1340.5	CYLINDER #:	015
DRY BTU @ 14.696:	1344.7	CYLINDER PRESSURE:	93 PSIG
DRY BTU @ 14.730:	1347.8	DATE RUN:	7/24/14 10:12 AM
DRY BTU @ 15.025:	1374.8	ANALYSIS RUN BY:	LOGAN CHENEY

2030 Afton Place
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Analysis No: CP140652
Cust No: 18300-26315

Well/Lease Information

Customer Name:	CONOCO PHILLIPS COMPANY	Source:	TUBING
Well Name:	HARE 16M; TBG	Pressure:	PSIG
County/State:	SAN JUAN NM	Sample Temp:	DEG. F
Location:	E03-29N-10W	Well Flowing:	Y
Field:		Date Sampled:	07/23/2014
Formation:	MV/DK	Sampled By:	CHERRI IVY
Cust. Stn. No.:	AM02305911NO	Foreman/Engr.:	DAVID BEST

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.247	0.0270	0.00	0.0024
CO2	1.062	0.1820	0.00	0.0161
Methane	83.099	14.1310	839.30	0.4603
Ethane	9.323	2.5010	164.99	0.0968
Propane	3.608	0.9970	90.78	0.0549
Iso-Butane	0.573	0.1880	18.63	0.0115
N-Butane	0.937	0.2960	30.57	0.0188
I-Pentane	0.309	0.1130	12.36	0.0077
N-Pentane	0.233	0.0850	9.34	0.0058
Hexane Plus	0.609	0.2720	32.10	0.0202
Total	100.000	18.7920	1198.07	0.6945

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBLITY FACTOR (1/Z):	1.0033
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1204.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1183.8
REAL SPECIFIC GRAVITY:	0.6965

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

DRY BTU @ 14.650:	1198.3	CYLINDER #:	006
DRY BTU @ 14.696:	1202.0	CYLINDER PRESSURE:	90 PSIG
DRY BTU @ 14.730:	1204.8	DATE RUN:	7/24/14 10:13 AM
DRY BTU @ 15.025:	1228.9	ANALYSIS RUN BY:	LOGAN CHENEY