



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

Analysis No: BP130082
 Cust No: 12305-10970

30-045-32081

Well/Lease Information

Customer Name: BP AMERICA/FARMINGTON
 Well Name: LUDWIEK LS 15N
 County/State:
 Location:
 Field:
 Formation: MV/DK
 Cust. Str. No.: 52903055

OIL CONS. DIV DIST. 3

DEC 10 2013

Source: CASING
 Pressure: 100 PSIG
 Sample Temp: DEG. F
 Well Flowing:
 Date Sampled: 09/27/2013
 Sampled By: R. LADESMA
 Foreman/Engr.: NATE DEAL

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.166	0.0180	0.00	0.0016
CO2	0.470	0.0800	0.00	0.0071
Methane	82.219	13.9820	830.41	0.4554
Ethane	9.957	2.6710	176.21	0.1034
Propane	4.256	1.1760	107.09	0.0648
Iso-Butane	0.890	0.2920	28.94	0.0179
N-Butane	0.947	0.2990	30.89	0.0190
I-Pentane	0.349	0.1280	13.96	0.0087
N-Pentane	0.253	0.0920	10.14	0.0063
Hexane Plus	0.493	0.2210	25.99	0.0163
Total	100.000	18.9590	1223.63	0.7005

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0034
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1230.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1209.2
 REAL SPECIFIC GRAVITY: 0.7026

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

DRY BTU @ 14.650: 1223.9
 DRY BTU @ 14.696: 1227.8
 DRY BTU @ 14.730: 1230.6
 DRY BTU @ 15.025: 1255.2

CYLINDER #: 1483
 CYLINDER PRESSURE: 124 PSIG
 DATE RUN: 10/7/13 9:03 AM
 ANALYSIS RUN BY: PATRICIA KING