



OIL CONS. DIV DIST. 3

JUN 15 2016

30039.06687

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: CT140001
Cust No: 20010-10000**Well/Lease Information**Customer Name: CROSS TIMBERS ENERGY
Well Name: BREECH E #87 BHD
County/State:
Location:
Field:
Formation:
Cust. Stn. No.:Source: BRADENHEAD
Pressure: 78.5 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 02/21/2014
Sampled By:
Foreman/Engr.:

Remarks:

Analysis

Component:	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.767	0.0850	0.00	0.0074
CO2	0.014	0.0020	0.00	0.0002
Methane	85.421	14.5240	862.75	0.4731
Ethane	6.503	1.7440	115.08	0.0675
Propane	4.237	1.1710	106.61	0.0645
Iso-Butane	0.919	0.3020	29.88	0.0184
N-Butane	1.065	0.3370	34.74	0.0214
I-Pentane	0.378	0.1390	15.12	0.0094
N-Pentane	0.242	0.0880	9.70	0.0060
Hexane Plus	0.454	0.2030	23.93	0.0150
Total	100.000	18.5950	1197.83	0.6831

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1204.5
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1183.5
REAL SPECIFIC GRAVITY: 0.685GPM, BTU, and SPG calculations as shown
above are based on current GPA factors.DRY BTU @ 14.650: 1198.0
DRY BTU @ 14.696: 1201.7
DRY BTU @ 14.730: 1204.5
DRY BTU @ 15.025: 1228.6CYLINDER #: A103
CYLINDER PRESSURE: 87 PSIG
DATE RUN: 3/4/14 12:36 PM
ANALYSIS RUN BY: LOGAN CHENEY



CROSS TIMBERS ENERGY
WELL ANALYSIS COMPARISON

Lease: BREECH E #87 BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

03/05/2014
20010-10000

Smpl Date: 02/21/2014
Test Date: 03/04/2014
Run No: CT140001

Nitrogen: 0.767
CO2: 0.014
Methane: 85.421
Ethane: 6.503
Propane: 4.237
I-Butane: 0.919
N-Butane: 1.065
I-Pentane: 0.378
N-Pentane: 0.242
Hexane+: 0.454

BTU: 1204.5
GPM: 18.5950
SPG: 0.6850



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

Analysis No: CT140002
Cust No: 20010-10005

Well/Lease Information

Customer Name: CROSS TIMBERS ENERGY
Well Name: BREECH E #87 CSG
County/State:
Location:
Field:
Formation:
Cust. Stn. No.:

Source: CASING
Pressure: 73 PSIG
Sample Temp: DEG. F
Well Flowing:
Date Sampled: 02/24/2014
Sampled By:
Foreman/Engr.:

Remarks:

Analysis

Component::	Mole%:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.762	0.0840	0.00	0.0074
CO2	0.004	0.0010	0.00	0.0001
Methane	84.737	14.4110	855.84	0.4694
Ethane	6.483	1.7390	114.73	0.0673
Propane	4.286	1.1850	107.84	0.0653
Iso-Butane	0.962	0.3160	31.28	0.0193
N-Butane	1.147	0.3630	37.42	0.0230
I-Pentane	0.459	0.1680	18.36	0.0114
N-Pentane	0.311	0.1130	12.47	0.0077
Hexane Plus	0.849	0.3800	44.75	0.0281
Total	100.000	18.7600	1222.70	0.6990

* @ 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): 1229.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1208.2
REAL SPECIFIC GRAVITY: 0.701

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

DRY BTU @ 14.650: 1222.9
DRY BTU @ 14.696: 1226.8
DRY BTU @ 14.730: 1229.6
DRY BTU @ 15.025: 1254.2

CYLINDER #: K084
CYLINDER PRESSURE: 85 PSIG
DATE RUN: 3/4/14 12:47 PM
ANALYSIS RUN BY: LOGAN CHENEY



CROSS TIMBERS ENERGY
WELL ANALYSIS COMPARISON

Lease: BREECH E #87 CSG
Stn. No.:
Mtr. No.:

CASING

03/05/2014
20010-10005

Smpl Date: 02/24/2014
Test Date: 03/04/2014
Run No: CT140002
Nitrogen: 0.762
CO2: 0.004
Methane: 84.737
Ethane: 6.483
Propane: 4.286
I-Butane: 0.962
N-Butane: 1.147
I-Pentane: 0.459
N-Pentane: 0.311
Hexane+: 0.849
BTU: 1229.6
GPM: 18.7600
SPG: 0.7010