



OIL CONS. DIV DIST. 3

NOV 22 2017

2030 Afton Place
Farmington, NM 87401
(505) 325-6622Analysis No: EN170148
Cust No: 25400-11765**Well/Lease Information**Customer Name: ENERVEST
Well Name: JICARILLA B #1E;BHD
County/State: RIO ARRIBA NM
Location:
Field:
Formation:
Cust. Stn. No.:
API 3003922294Source: BRADENHEAD
Well Flowing: Y
Pressure: 117 PSIG
Flow Temp: DEG. F
Ambient Temp: 49 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/19/2017
Sample Time: 10.15 AM
Sampled By: LEROY M.
Sampled by (CO): ENERVEST

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3075	0.3023	0.0340	0.00	0.0030
CO2	0.3658	0.3596	0.0630	0.00	0.0056
Methane	85.9040	84.4531	14.6020	867.63	0.4758
Ethane	8.5644	8.4198	2.2960	151.56	0.0889
Propane	3.0030	2.9523	0.8300	75.56	0.0457
Iso-Butane	0.5532	0.5439	0.1820	17.99	0.0111
N-Butane	0.6851	0.6735	0.2170	22.35	0.0137
I-Pentane	0.2361	0.2321	0.0870	9.45	0.0059
N-Pentane	0.1600	0.1573	0.0580	6.41	0.0040
Hexane Plus	0.2209	0.2172	0.0990	11.64	0.0073
Total	100.0000	98.3111	18.4680	1162.60	0.6610

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0029
BTU/CU.FT IDEAL: 1165.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1168.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1148.4
DRY BTU @ 15.025: 1192.1
REAL SPECIFIC GRAVITY: 0.6627CYLINDER #: 6
CYLINDER PRESSURE: 120 PSIG
DATE RUN: 10/20/17 10:15 AM
ANALYSIS RUN BY: PATRICIA KING

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/20/2017

GC Method: C6+ Gas

4



ENERVEST
WELL ANALYSIS COMPARISON

Lease: JICARILLA B #1E;BHD
Stn. No.:
Mtr. No.: API 3003922294

BRADENHEAD

10/20/2017
25400-11765

Smpl Date: 10/19/2017
Test Date: 10/20/2017
Run No: EN170148

Nitrogen: 0.3075
CO2: 0.3658
Methane: 85.9040
Ethane: 8.5644
Propane: 3.0030
I-Butane: 0.5532
N-Butane: 0.6851
I-Pentane: 0.2361
N-Pentane: 0.1600
Hexane+: 0.2209

BTU: 1168.7
GPM: 18.4680
SPG: 0.6627



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

Analysis No: EN170149
Cust No: 25400-11760

Well/Lease Information

Customer Name: ENERVEST
Well Name: JICARILLA B #1E;CSG
County/State: RIO ARRIBA NM
Location:
Field:
Formation:
Cust. Str. No.:
API 3003922294

Source: CASING
Well Flowing: Y
Pressure: 114 PSIG
Flow Temp: DEG. F
Ambient Temp: 49 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Date Sampled: 10/19/2017
Sample Time: 10.40 AM
Sampled By: LEROY M.
Sampled by (CO): ENERVEST

OIL CONS. DIV DIST. 3

NOV 22 2017

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2976	0.2925	0.0330	0.00	0.0029
CO2	0.7435	0.7307	0.1270	0.00	0.0113
Methane	84.8867	83.4218	14.4330	857.36	0.4702
Ethane	8.3769	8.2323	2.2470	148.25	0.0870
Propane	3.1073	3.0537	0.8590	78.18	0.0473
Iso-Butane	0.6185	0.6078	0.2030	20.11	0.0124
N-Butane	0.7714	0.7581	0.2440	25.17	0.0155
I-Pentane	0.3050	0.2997	0.1120	12.20	0.0076
N-Pentane	0.2239	0.2200	0.0810	8.98	0.0056
Hexane Plus	0.6692	0.6577	0.2990	35.27	0.0221
Total	100.0000	98.2743	18.6380	1185.52	0.6819

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
BTU/CU.FT IDEAL: 1188.3
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1192.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1171.4
DRY BTU @ 15.025: 1216.0
REAL SPECIFIC GRAVITY: 0.6838

CYLINDER #: 7
CYLINDER PRESSURE: 110 PSIG
DATE RUN: 10/20/17 10:40 AM
ANALYSIS RUN BY: PATRICIA KING

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

GPA Standard: GPA-2261

GC: Danalyzer Model 500

Last Cal/Verify: 10/20/2017

GC Method: C6+ Gas



ENERVEST
WELL ANALYSIS COMPARISON

Lease: JICARILLA B #1E;CSG
Stn. No.:
Mtr. No.: API 3003922294

CASING

10/20/2017
25400-11760

Smpl Date: 10/19/2017
Test Date: 10/20/2017
Run No: EN170149

Nitrogen: 0.2976
CO2: 0.7435
Methane: 84.8867
Ethane: 8.3769
Propane: 3.1073
I-Butane: 0.6185
N-Butane: 0.7714
I-Pentane: 0.3050
N-Pentane: 0.2239
Hexane+: 0.6692

BTU: 1192.1
GPM: 18.6380
SPG: 0.6838