



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

Analysis No: DR180001
Cust No: 21300-10005

Well/Lease Information

Customer Name: D.J.R.
Well Name: WEST BISTI COAL #15-2;BHD
County/State: SAN JUAN NM
Location:
Field:
Formation: FC
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: N
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 55 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 04/19/2018
Sample Time: 10.10 AM
Sampled By: JACOB HARTER
Sampled by (CO):

API 30-045-28390

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.1870	4.0708	0.4610	0.00	0.0405
CO2	0.9392	0.9131	0.1610	0.00	0.0143
Methane	94.5078	91.8862	16.0480	954.53	0.5235
Ethane	0.3660	0.3558	0.0980	6.48	0.0038
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	97.2259	16.7680	961.01	0.5820

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 963.2
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 965.1
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 948.3
DRY BTU @ 15.025: 984.4
REAL SPECIFIC GRAVITY: 0.5829

CYLINDER #: 4192
CYLINDER PRESSURE: 31 PSIG
ANALYSIS DATE: 04/20/2018
ANALYSIS TIME: 11:47:54 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: 04/23/2018

GC Method: C6+ Gas

NW8CD

JUN 21 2018

DISTRICT III



D.J.R.

WELL ANALYSIS COMPARISON

Lease: WEST BISTI COAL #15-2;BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
FC

04/23/2018
21300-10005

Smpl Date: 04/19/2018
Test Date: 04/20/2018
Run No: DR180001

Nitrogen: 4.1870
CO2: 0.9392
Methane: 94.5078
Ethane: 0.3660
Propane: 0.0000
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 965.1
GPM: 16.7680
SPG: 0.5829



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

Analysis No: DR180002
Cust No: 21300-10010

Well/Lease Information

Customer Name: D.J.R.
Well Name: WEST BISTI COAL #15-2;CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: FC
Cust. Stn. No.:

Source: CASING
Well Flowing: N
Pressure: 30 PSIG
Flow Temp: DEG. F
Ambient Temp: 55 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 04/19/2018
Sample Time: 10.05 AM
Sampled By: JACOB HARTER
Sampled by (CO): COTTONWOOD

API 30-045-28390

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	4.0903	4.0134	0.4510	0.00	0.0396
CO2	0.9758	0.9574	0.1670	0.00	0.0148
Methane	94.5686	92.7897	16.0590	955.14	0.5238
Ethane	0.3653	0.3584	0.0980	6.46	0.0038
Propane	0.0000	0.0000	0.0000	0.00	0.0000
Iso-Butane	0.0000	0.0000	0.0000	0.00	0.0000
N-Butane	0.0000	0.0000	0.0000	0.00	0.0000
I-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
N-Pentane	0.0000	0.0000	0.0000	0.00	0.0000
Hexane Plus	0.0000	0.0000	0.0000	0.00	0.0000
Total	100.0000	98.1189	16.7750	961.61	0.5820

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 963.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 965.7
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 948.9
DRY BTU @ 15.025: 985.0
REAL SPECIFIC GRAVITY: 0.5829

CYLINDER #: 6160
CYLINDER PRESSURE: 32 PSIG
ANALYSIS DATE: 04/20/2018
ANALYSIS TIME: 11:31:31 AM
ANALYSIS RUN BY: RICHARD WILSON

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: 04/23/2018

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease: WEST BISTI COAL #15-2;CSG
Stn. No.:
Mtr. No.:

CASING
FC

04/23/2018
21300-10010

Smpl Date: 04/19/2018
Test Date: 04/20/2018
Run No: DR180002

Nitrogen: 4.0903
CO2: 0.9758
Methane: 94.5686
Ethane: 0.3653
Propane: 0.0000
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 965.7
GPM: 16.7750
SPG: 0.5829