



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

Analysis No: DR180017
Cust No: 21300-10085

Well/Lease Information

Customer Name: D.J.R.
Well Name: BISTI COAL 31-001; BHD
County/State: SAN JUAN NM
Location: G31-25N-12W
Field:
Formation: FC
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 20 PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2018
Sample Time: 12:35 PM
Sampled By: K. SIESSER
Sampled by (CO): COTTONWOOD

28808

API 30-045-0542
KS

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.4730	5.2912	0.6030	0.00	0.0529
CO2	0.0410	0.0396	0.0070	0.00	0.0006
Methane	94.1857	91.0571	15.9940	951.28	0.5217
Ethane	0.3003	0.2903	0.0800	5.31	0.0031
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	96.6782	16.6840	956.59	0.5784

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 958.8
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 960.6
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 943.9
DRY BTU @ 15.025: 979.8
REAL SPECIFIC GRAVITY: 0.5792

CYLINDER #: 4009
CYLINDER PRESSURE: 22 PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 01:45:43 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/29/2018

GC Method: C6+ Gas

NMOCB

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DISTRICT III

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D.J.R.

WELL ANALYSIS COMPARISON

Lease: BISTI COAL 31-001; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
FC

05/29/2018
21300-10085

Smpl Date: 05/23/2018
Test Date: 05/24/2018
Run No: DR180017

Nitrogen: 5.4730
CO2: 0.0410
Methane: 94.1857
Ethane: 0.3003
Propane: 0.0000
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 960.6
GPM: 16.6840
SPG: 0.5792



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

Analysis No: DR180018
Cust No: 21300-10090

Well/Lease Information

Customer Name: D.J.R.
Well Name: BISTI COAL 31-001; CSG
County/State: SAN JUAN NM
Location: G31-25N-12W
Field:
Formation: FC
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 20 PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2018
Sample Time: 12.45 PM
Sampled By: K. SIESSER
Sampled by (CO): COTTONWOOD

API 30-045-28808

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	5.9166	5.6388	0.6520	0.00	0.0572
CO2	0.3180	0.3031	0.0540	0.00	0.0048
Methane	93.4677	89.0786	15.8720	944.02	0.5177
Ethane	0.2977	0.2837	0.0800	5.27	0.0031
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	95.3042	16.6580	949.29	0.5829

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0019
BTU/CU.FT IDEAL: 951.5
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 953.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 936.7
DRY BTU @ 15.025: 972.4
REAL SPECIFIC GRAVITY: 0.5837

CYLINDER #: 6036
CYLINDER PRESSURE: 22 PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 01:31:16 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/29/2018

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease: BISTI COAL 31-001; CSG
Stn. No.:
Mtr. No.:

CASING
FC

05/29/2018
21300-10090

Smpl Date: 05/23/2018
Test Date: 05/24/2018
Run No: DR180018

Nitrogen: 5.9166
CO2: 0.3180
Methane: 93.4677
Ethane: 0.2977
Propane: 0.0000
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 953.3
GPM: 16.6580
SPG: 0.5837



2030 Afton Place
Farmington, NM 87401
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Analysis No: DR180019
Cust No: 21300-10095

Well/Lease Information

Customer Name: D.J.R.
Well Name: BISTI COAL 31-001; TBG
County/State: SAN JUAN NM
Location: G31-25N-12W
Field:
Formation: FC
Cust. Stn. No.:

Source: TUBING
Well Flowing: Y
Pressure: 2 PSIG
Flow Temp: DEG. F
Ambient Temp: 75 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/23/2018
Sample Time: 12.40 PM
Sampled By: K. SIESSER
Sampled by (CO): COTTONWOOD

Heat Trace: N
Remarks: PRESSURED WITH HELIUM TO 30LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	13.9748	1.7258	1.5400	0.00	0.1352
CO2	0.3806	0.0470	0.0650	0.00	0.0058
Methane	85.3369	10.5386	14.4880	861.90	0.4727
Ethane	0.3077	0.0380	0.0820	5.45	0.0032
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	12.3494	16.1750	867.35	0.6168

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0017
BTU/CU.FT IDEAL: 869.4
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 870.8
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 855.6
DRY BTU @ 15.025: 888.2
REAL SPECIFIC GRAVITY: 0.6176

CYLINDER #: 4096
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 01:08:33 PM
ANALYSIS RUN BY: SHYANN ELLEDGE

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: 05/29/2018

GC Method: C6+ Gas



D.J.R.

WELL ANALYSIS COMPARISON

Lease: BISTI COAL 31-001; TBG
Stn. No.:
Mtr. No.:

TUBING
FC

05/29/2018
21300-10095

Smpl Date: 05/23/2018
Test Date: 05/24/2018
Run No: DR180019

Nitrogen: 13.9748
CO2: 0.3806
Methane: 85.3369
Ethane: 0.3077
Propane: 0.0000
I-Butane: 0.0000
N-Butane: 0.0000
I-Pentane: 0.0000
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 870.8
GPM: 16.1750
SPG: 0.6176