



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

Analysis No: DR180014
Cust No: 21300-10070

Well/Lease Information

Customer Name: D.J.R.
Well Name: CENTRAL BISTI #53; BHD
County/State: SAN JUAN NM
Location:
Field: API 30-045-05558
Formation:
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: Y
Pressure: 21 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/16/2018
Sample Time: 12.25 PM
Sampled By: K. SIESSER
Sampled by (CO): COTTONWOOD

Heat Trace: N
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	1.4303	1.3840	0.1580	0.00	0.0138
CO2	0.0164	0.0159	0.0030	0.00	0.0002
Methane	97.4078	94.2528	16.5420	983.82	0.5395
Ethane	0.9951	0.9629	0.2670	17.61	0.0103
Propane	0.1072	0.1037	0.0300	2.70	0.0016
Iso-Butane	0.0358	0.0346	0.0120	1.16	0.0007
N-Butane	0.0050	0.0048	0.0020	0.16	0.0001
I-Pentane	0.0024	0.0023	0.0010	0.10	0.0001
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	96.7610	17.0150	1005.55	0.5665

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.002
BTU/CU.FT IDEAL: 1007.9
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1009.9
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 992.3
DRY BTU @ 15.025: 1030.1
REAL SPECIFIC GRAVITY: 0.5674

CYLINDER #: 6098
CYLINDER PRESSURE: 22 PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 02:38:21 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

NMOC

JUN 21 2018

DISTRICT III



D.J.R.

WELL ANALYSIS COMPARISON

Lease: CENTRAL BISTI #53; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD

05/29/2018
21300-10070

Smpl Date: 05/16/2018
Test Date: 05/24/2018
Run No: DR180014

Nitrogen: 1.4303
CO2: 0.0164
Methane: 97.4078
Ethane: 0.9951
Propane: 0.1072
I-Butane: 0.0358
N-Butane: 0.0050
I-Pentane: 0.0024
N-Pentane: 0.0000
Hexane+: 0.0000

BTU: 1009.9
GPM: 17.0150
SPG: 0.5674



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

Analysis No: DR180015
Cust No: 21300-10075

Well/Lease Information

Customer Name: D.J.R.
Well Name: CENTRAL BISTI #53; CSG
County/State: SAN JUAN NM
Location:
Field:
Formation: API 30-045-05558
Cust. Stn. No.:

Source: CASING
Well Flowing: Y
Pressure: 1 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/16/2018
Sample Time: 12.35 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	35.0413	3.1500	3.8780	0.00	0.3389
CO2	0.6741	0.0606	0.1160	0.00	0.0102
Methane	26.1396	2.3498	4.4570	264.01	0.1448
Ethane	9.6013	0.8631	2.5830	169.91	0.0997
Propane	14.0165	1.2600	3.8840	352.67	0.2134
Iso-Butane	2.0380	0.1832	0.6710	66.27	0.0409
N-Butane	6.4454	0.5794	2.0440	210.27	0.1293
I-Pentane	1.5051	0.1353	0.5540	60.22	0.0375
N-Pentane	1.5552	0.1398	0.5670	62.34	0.0387
Hexane Plus	2.9835	0.2682	1.3380	157.26	0.0987
Total	100.0000	8.9894	20.0920	1342.96	1.1523

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0061
BTU/CU.FT IDEAL: 1346.1
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1354.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1330.7
DRY BTU @ 15.025: 1381.4
REAL SPECIFIC GRAVITY: 1.1589

CYLINDER #: 4158
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 02:20:54 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: CENTRAL BISTI #53; CSG
Stn. No.:
Mtr. No.:

CASING

05/29/2018
21300-10075

Smpl Date: 05/16/2018
Test Date: 05/24/2018
Run No: DR180015

Nitrogen: 35.0413
CO2: 0.6741
Methane: 26.1396
Ethane: 9.6013
Propane: 14.0165
I-Butane: 2.0380
N-Butane: 6.4454
I-Pentane: 1.5051
N-Pentane: 1.5552
Hexane+: 2.9835

BTU: 1354.3
GPM: 20.0920
SPG: 1.1589



2030 Afton Place
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Analysis No: DR180016
Cust No: 21300-10080

Well/Lease Information

Customer Name: D.J.R.
Well Name: CENTRAL BISTI #53; TBG
County/State: SAN JUAN NM
Location:
Field: API 30-045-05558
Formation:
Cust. Str. No.:

Source: TUBING
Well Flowing: Y
Pressure: 1 PSIG
Flow Temp: DEG. F
Ambient Temp: 70 DEG. F
Flow Rate: MCF/D
Sample Method: Purge & Fill
Sample Date: 05/16/2018
Sample Time: 12.30 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	13.3173	2.0507	1.4830	0.00	0.1288
CO2	0.1351	0.0208	0.0230	0.00	0.0021
Methane	30.7192	4.7304	5.2700	310.26	0.1702
Ethane	11.8016	1.8173	3.1940	208.85	0.1225
Propane	18.7138	2.8817	5.2170	470.86	0.2849
Iso-Butane	3.0970	0.4769	1.0260	100.71	0.0622
N-Butane	10.2281	1.5750	3.2630	333.67	0.2053
I-Pentane	2.7898	0.4296	1.0320	111.62	0.0695
N-Pentane	3.0450	0.4689	1.1170	122.06	0.0759
Hexane Plus	6.1531	0.9475	2.7770	324.33	0.2036
Total	100.0000	15.3988	24.4020	1982.37	1.3249

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0122
BTU/CU.FT IDEAL: 1987.0
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 2011.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1976.3
DRY BTU @ 15.025: 2051.6
REAL SPECIFIC GRAVITY: 1.3405

CYLINDER #: 4173
CYLINDER PRESSURE: PSIG
ANALYSIS DATE: 05/24/2018
ANALYSIS TIME: 02:03:41 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: CENTRAL BISTI #53; TBG
Stn. No.:
Mtr. No.:

TUBING

05/29/2018
21300-10080

Smpl Date: 05/16/2018
Test Date: 05/24/2018
Run No: DR180016
Nitrogen: 13.3173
CO2: 0.1351
Methane: 30.7192
Ethane: 11.8016
Propane: 18.7138
I-Butane: 3.0970
N-Butane: 10.2281
I-Pentane: 2.7898
N-Pentane: 3.0450
Hexane+: 6.1531
BTU: 2011.3
GPM: 24.4020
SPG: 1.3405