



OCD Received
6/25/2020

Well Name: FINCH #1; BHD
API #: 30-045-08135
Source: BRADENHEAD
Sample Type: GAS
Analysis No: MG200009
Cust No: 51105-10055

Well/Lease Information

Customer Name: MANANA GAS, INC.
Well Name: FINCH #1; BHD
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: AZTEC FRUITLAND SAND
Cust. Stn. No.:

Source: BRADENHEAD
Well Flowing: N
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 05/28/2020
Sample Time: 11.10 AM
Sampled By: BRANDYN A.
Sampled by (CO): WALSH

Heat Trace:
Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7721	0.7501	0.0850	0.00	0.0075
CO2	0.0541	0.0526	0.0090	0.00	0.0008
Methane	86.1363	83.6856	14.6430	869.98	0.4771
Ethane	7.2876	7.0803	1.9540	128.97	0.0757
Propane	3.0512	2.9644	0.8430	76.77	0.0465
Iso-Butane	0.6355	0.6174	0.2090	20.67	0.0128
N-Butane	0.9690	0.9414	0.3060	31.61	0.0194
I-Pentane	0.3719	0.3613	0.1360	14.88	0.0093
N-Pentane	0.2429	0.2360	0.0880	9.74	0.0061
Hexane Plus	0.4794	0.4658	0.2140	25.27	0.0159
Total	100.0000	97.1549	18.4870	1177.88	0.6709

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.003
BTU/CU.FT IDEAL: 1180.6
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1184.2
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1163.6
DRY BTU @ 15.025: 1207.9
REAL SPECIFIC GRAVITY: 0.6726

CYLINDER #: 6171
CYLINDER PRESSURE: 30 PSIG
ANALYSIS DATE: 06/04/2020
ANALYSIS TIME: 03:52:54 PM
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: 06/09/2020

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; BHD
Stn. No.:
Mtr. No.:

BRADENHEAD
AZTEC FRUITLAND SAND

06/09/2020
51105-10055

Smpl Date: 05/28/2020
Test Date: 06/04/2020
Run No: MG200009

Nitrogen: 0.7721
CO2: 0.0541
Methane: 86.1363
Ethane: 7.2876
Propane: 3.0512
I-Butane: 0.6355
N-Butane: 0.9690
I-Pentane: 0.3719
N-Pentane: 0.2429
Hexane+: 0.4794

BTU: 1184.2
GPM: 18.4870
SPG: 0.6726



Well Name: FINCH #1; CSG

API #: 30-045-08135

Source: CASING

Sample Type: GAS

Analysis No: MG200010

Cust No: 51105-10065

Well/Lease Information

Customer Name: MANANA GAS, INC.
Well Name: FINCH #1; CSG
County/State: SAN JUAN NM
Location:
Lease/PA/CA:
Formation: AZTEC FRUITLAND SAND
Cust. Stn. No.:

Source: CASING
Well Flowing: N
Pressure: PSIG
Flow Temp: DEG. F
Ambient Temp: DEG. F
Flow Rate: MCF/D
Sample Method:
Sample Date: 05/28/2020
Sample Time: 11.15 AM
Sampled By: BRANDYN A.
Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2447	0.2421	0.0270	0.00	0.0024
CO2	0.1570	0.1553	0.0270	0.00	0.0024
Methane	92.7498	91.7569	15.7580	936.77	0.5137
Ethane	4.7722	4.7211	1.2790	84.45	0.0495
Propane	1.3682	1.3536	0.3780	34.43	0.0208
Iso-Butane	0.3661	0.3622	0.1200	11.91	0.0073
N-Butane	0.1573	0.1556	0.0500	5.13	0.0032
I-Pentane	0.0698	0.0691	0.0260	2.79	0.0017
N-Pentane	0.0301	0.0298	0.0110	1.21	0.0007
Hexane Plus	0.0848	0.0839	0.0380	4.47	0.0028
Total	100.0000	98.9296	17.7140	1081.16	0.6047

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
BTU/CU.FT IDEAL: 1083.7
BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1086.3
BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1067.4
DRY BTU @ 15.025: 1108.1
REAL SPECIFIC GRAVITY: 0.6059

CYLINDER #: 5005
CYLINDER PRESSURE: 94 PSIG
ANALYSIS DATE: 06/08/2020
ANALYSIS TIME: 08:03:00 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: 06/09/2020

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; CSG
Stn. No.:
Mtr. No.:

CASING
AZTEC FRUITLAND SAND

06/09/2020
51105-10065

Smpl Date: 05/28/2020
Test Date: 06/08/2020
Run No: MG200010

Nitrogen: 0.2447
CO2: 0.1570
Methane: 92.7498
Ethane: 4.7722
Propane: 1.3682
I-Butane: 0.3661
N-Butane: 0.1573
I-Pentane: 0.0698
N-Pentane: 0.0301
Hexane+: 0.0848

BTU: 1086.3
GPM: 17.7140
SPG: 0.6059



Well Name: FINCH #1; TBG
 API #: 30-045-08135
 Source: TUBING
 Sample Type: GAS
 Analysis No: MG200011
 Cust No: 51105-10060

Well/Lease Information

Customer Name: MANANA GAS, INC.
 Well Name: FINCH #1; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: AZTEC FRUITLAND SAND
 Cust. Stn. No.:

Source: TUBING
 Well Flowing: N
 Pressure: PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 05/28/2020
 Sample Time: 11.20 AM
 Sampled By: BRANDYN A.
 Sampled by (CO): WALSH

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2022	0.1999	0.0220	0.00	0.0020
CO2	0.1611	0.1593	0.0280	0.00	0.0024
Methane	92.5937	91.5583	15.7310	935.20	0.5129
Ethane	4.9460	4.8907	1.3260	87.53	0.0513
Propane	1.3915	1.3759	0.3840	35.01	0.0212
Iso-Butane	0.3691	0.3650	0.1210	12.00	0.0074
N-Butane	0.1535	0.1518	0.0480	5.01	0.0031
I-Pentane	0.0682	0.0674	0.0250	2.73	0.0017
N-Pentane	0.0296	0.0293	0.0110	1.19	0.0007
Hexane Plus	0.0851	0.0841	0.0380	4.49	0.0028
Total	100.0000	98.8817	17.7340	1083.15	0.6056

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1085.7
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1088.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1069.4
 DRY BTU @ 15.025: 1110.1
 REAL SPECIFIC GRAVITY: 0.6068

CYLINDER #: 6153
 CYLINDER PRESSURE: 68 PSIG
 ANALYSIS DATE: 06/08/2020
 ANALYSIS TIME: 08:11:39 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: 06/09/2020

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; TBG
Stn. No.:
Mtr. No.:

TUBING
AZTEC FRUITLAND SAND

06/09/2020
51105-10060

Smpl Date: 05/28/2020
Test Date: 06/08/2020
Run No: MG200011

Nitrogen: 0.2022
CO2: 0.1611
Methane: 92.5937
Ethane: 4.9460
Propane: 1.3915
I-Butane: 0.3691
N-Butane: 0.1535
I-Pentane: 0.0682
N-Pentane: 0.0296
Hexane+: 0.0851

BTU: 1088.3
GPM: 17.7340
SPG: 0.6068