



Well Name: FINCH #1; BHD

API #: 3004508135

Source: BRADENHEAD

Sample Type: GAS

Analysis No: MG20230008

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.: 3004508135

Source: BRADENHEAD
 Well Flowing: N
 Pressure: 2 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/17/2023
 Sample Time: 9.31 AM
 Sampled By: BRANDYN A.
 Sampled by (CO): WALSH

Heat Trace:

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.9048	0.2274	0.1000	0.00	0.0088
CO2	0.0625	0.0157	0.0110	0.00	0.0009
Methane	86.0650	21.6306	14.6340	869.26	0.4767
Ethane	6.6817	1.6793	1.7920	118.25	0.0694
Propane	2.6993	0.6784	0.7460	67.92	0.0411
Iso-Butane	0.6303	0.1584	0.2070	20.50	0.0126
N-Butane	1.1137	0.2799	0.3520	36.33	0.0223
I-Pentane	0.5348	0.1344	0.1960	21.40	0.0133
N-Pentane	0.3641	0.0915	0.1320	14.60	0.0091
Hexane Plus	0.9438	0.2372	0.4220	49.75	0.0312
Total	100.0000	25.1328	18.5920	1197.99	0.6855

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0032
 BTU/CU.FT IDEAL: 1200.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1204.6
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1183.6
 DRY BTU @ 15.025: 1228.7
 REAL SPECIFIC GRAVITY: 0.6874

CYLINDER #: 7001
 CYLINDER PRESSURE: 2 PSIG
 ANALYSIS DATE: 05/23/2023
 ANALYSIS TIME: 10:37:24 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: 05/26/2023

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; BHD
Stn. No.: 3004508135
Mtr. No.:

BRADENHEAD
AZTEC FRUITLAND SAND

05/26/2023
51105-10055

Smpl Date:	05/17/2023	05/28/2020
Test Date:	05/23/2023	06/04/2020
Run No:	MG20230008	MG200009
Nitrogen:	0.9048	0.7721
CO2:	0.0625	0.0541
Methane:	86.0650	86.1363
Ethane:	6.6817	7.2876
Propane:	2.6993	3.0512
I-Butane:	0.6303	0.6355
N-Butane:	1.1137	0.9690
I-Pentane:	0.5348	0.3719
N-Pentane:	0.3641	0.2429
Hexane+:	0.9438	0.4794
BTU:	1204.6	1184.2
GPM:	18.5920	18.4870
SPG:	0.6874	0.6726



Well Name: FINCH #1; TBG

API #: 3004508135

Source: TUBING

Sample Type: GAS

Analysis No: MG20230010

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.: 3004508135

Source: TUBING
 Well Flowing: N
 Pressure: 120 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/17/2023
 Sample Time: 9.29 AM
 Sampled By: BRANDYN A.
 Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2399	0.2394	0.0260	0.00	0.0023
CO2	0.1385	0.1382	0.0240	0.00	0.0021
Methane	93.5088	93.3174	15.8870	944.44	0.5179
Ethane	4.3557	4.3468	1.1670	77.08	0.0452
Propane	1.1932	1.1908	0.3290	30.02	0.0182
Iso-Butane	0.3419	0.3412	0.1120	11.12	0.0069
N-Butane	0.0982	0.0980	0.0310	3.20	0.0020
I-Pentane	0.0488	0.0487	0.0180	1.95	0.0012
N-Pentane	0.0149	0.0149	0.0050	0.60	0.0004
Hexane Plus	0.0601	0.0600	0.0270	3.17	0.0020
Total	100.0000	99.7954	17.6260	1071.58	0.5982

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0024
 BTU/CU.FT IDEAL: 1074.1
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1076.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1057.8
 DRY BTU @ 15.025: 1098.1
 REAL SPECIFIC GRAVITY: 0.5993

CYLINDER #: 4225
 CYLINDER PRESSURE: 123 PSIG
 ANALYSIS DATE: 05/23/2023
 ANALYSIS TIME: 10:26:12 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: 05/26/2023

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; TBG
Stn. No.: 3004508135
Mtr. No.:

TUBING
AZTEC FRUITLAND SAND

05/26/2023
51105-10060

Smpl Date:	05/17/2023	05/28/2020
Test Date:	05/23/2023	06/08/2020
Run No:	MG20230010	MG200011
Nitrogen:	0.2399	0.2022
CO2:	0.1385	0.1611
Methane:	93.5088	92.5937
Ethane:	4.3557	4.9460
Propane:	1.1932	1.3915
I-Butane:	0.3419	0.3691
N-Butane:	0.0982	0.1535
I-Pentane:	0.0488	0.0682
N-Pentane:	0.0149	0.0296
Hexane+:	0.0601	0.0851
BTU:	1076.5	1088.3
GPM:	17.6260	17.7340
SPG:	0.5993	0.6068



Well Name: FINCH #1; CSG

API #: 3004508135

Source: CASING

Sample Type: GAS

Analysis No: MG20230009

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.: 3004508135

Source: CASING
 Well Flowing: N
 Pressure: 155 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/12/2023
 Sample Time: 9.30 AM
 Sampled By: BRANDYN A.
 Sampled by (CO): WALSH

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.6241	0.6229	0.0690	0.00	0.0060
CO2	0.0795	0.0793	0.0140	0.00	0.0012
Methane	94.4625	94.2735	16.0470	954.07	0.5232
Ethane	3.2282	3.2217	0.8650	57.13	0.0335
Propane	1.0354	1.0333	0.2860	26.05	0.0158
Iso-Butane	0.3115	0.3109	0.1020	10.13	0.0063
N-Butane	0.1247	0.1245	0.0390	4.07	0.0025
I-Pentane	0.0624	0.0623	0.0230	2.50	0.0016
N-Pentane	0.0214	0.0214	0.0080	0.86	0.0005
Hexane Plus	0.0503	0.0502	0.0220	2.65	0.0017
Total	100.0000	99.8000	17.4750	1057.46	0.5923

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0023
 BTU/CU.FT IDEAL: 1059.9
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1062.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1043.8
 DRY BTU @ 15.025: 1083.6
 REAL SPECIFIC GRAVITY: 0.5934

CYLINDER #: 7057
 CYLINDER PRESSURE: 161 PSIG
 ANALYSIS DATE: 05/23/2023
 ANALYSIS TIME: 08:46:47 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: 05/26/2023

GC Method: C6+ Gas



MANANA GAS, INC.
WELL ANALYSIS COMPARISON

Lease: FINCH #1; CSG
Stn. No.: 3004508135
Mtr. No.:

CASING
AZTEC FRUITLAND SAND

05/26/2023
51105-10065

Smpl Date:	05/12/2023	05/28/2020
Test Date:	05/23/2023	06/08/2020
Run No:	MG20230009	MG200010
Nitrogen:	0.6241	0.2447
CO2:	0.0795	0.1570
Methane:	94.4625	92.7498
Ethane:	3.2282	4.7722
Propane:	1.0354	1.3682
I-Butane:	0.3115	0.3661
N-Butane:	0.1247	0.1573
I-Pentane:	0.0624	0.0698
N-Pentane:	0.0214	0.0301
Hexane+:	0.0503	0.0848
BTU:	1062.3	1086.3
GPM:	17.4750	17.7140
SPG:	0.5934	0.6059

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District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
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State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 226003

CONDITIONS

Operator: MANANA GAS INC 2520 Tramway Terrace Ct NE Albuquerque, NM 87122	OGRID: 13931
	Action Number: 226003
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record only	9/11/2023