



Well Name: TAFOYA 1C;BHD
 API #: 3004532187
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20240095
 Cust No: 35825-11820

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: TAFOYA 1C;BHD
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004532187
 85974-01

Source: BRADENHEAD
 Well Flowing:
 Pressure: 86 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 05/08/2024
 Sample Time: 11.00 AM
 Sampled By: PETER JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 0211

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3050	0.3036	0.0340	0.00	0.0029
CO2	0.0000	0.0000	0.0000	0.00	0.0000
Methane	91.4896	91.0803	15.5450	924.04	0.5068
Ethane	5.5606	5.5357	1.4900	98.41	0.0577
Propane	1.4778	1.4712	0.4080	37.18	0.0225
Iso-Butane	0.3321	0.3306	0.1090	10.80	0.0067
N-Butane	0.3679	0.3663	0.1160	12.00	0.0074
I-Pentane	0.1739	0.1731	0.0640	6.96	0.0043
N-Pentane	0.0711	0.0708	0.0260	2.85	0.0018
Hexane Plus	0.2220	0.2210	0.0990	11.70	0.0073
Total	100.0000	99.5526	17.8910	1103.94	0.6174

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0025
 BTU/CU.FT IDEAL: 1106.5
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1109.3
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1090.0
 DRY BTU @ 15.025: 1131.5
 REAL SPECIFIC GRAVITY: 0.6187

CYLINDER #: 2025
 CYLINDER PRESSURE: 111 PSIG
 ANALYSIS DATE: 05/16/2024
 ANALYSIS TIME: 04:12:36 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 05/22/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TAFOYA 1C;BHD	BRADENHEAD	05/22/2024
Stn. No.:	3004532187		35825-11820
Mtr. No.:	85974-01		

Smpl Date:	05/08/2024	07/28/2021	07/25/2019
Test Date:	05/16/2024	08/04/2021	08/07/2019
Run No:	HS20240095	HS2021165	HS190214
Nitrogen:	0.3050	0.2468	0.3255
CO2:	0.0000	0.0015	0.0088
Methane:	91.4896	90.2892	92.3358
Ethane:	5.5606	5.9348	5.4244
Propane:	1.4778	2.0055	1.0239
I-Butane:	0.3321	0.4437	0.2435
N-Butane:	0.3679	0.4809	0.2473
I-Pentane:	0.1739	0.2173	0.1217
N-Pentane:	0.0711	0.0914	0.0500
Hexane+:	0.2220	0.2889	0.2191
BTU:	1109.3	1130.8	1093.9
GPM:	17.8910	18.0560	17.7830
SPG:	0.6187	0.6319	0.6092



Well Name: TAFOYA 1C; CSG
 API #: 3004532187
 Source: CASING
 Sample Type: GAS
 Analysis No: HS20240096
 Cust No: 35825-12015

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: TAFOYA 1C; CSG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation: DK
 Cust. Stn. No.: 3004532187
 85974-01

Source: CASING
 Well Flowing: Y
 Pressure: 65 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 05/08/2024
 Sample Time: 11.00 AM
 Sampled By: PETER JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 0211

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1581	0.1579	0.0170	0.00	0.0015
CO2	2.8176	2.8149	0.4830	0.00	0.0428
Methane	79.7469	79.6697	13.5700	805.44	0.4417
Ethane	7.7205	7.7130	2.0720	136.63	0.0802
Propane	4.0780	4.0740	1.1280	102.61	0.0621
Iso-Butane	0.9927	0.9917	0.3260	32.28	0.0199
N-Butane	1.5878	1.5863	0.5020	51.80	0.0319
I-Pentane	0.8049	0.8041	0.2950	32.20	0.0201
N-Pentane	0.7016	0.7009	0.2550	28.13	0.0175
Hexane Plus	1.3919	1.3906	0.6230	73.37	0.0461
Total	100.0000	99.9031	19.2710	1262.46	0.7637

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1265.4
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1270.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1248.4
 DRY BTU @ 15.025: 1295.9
 REAL SPECIFIC GRAVITY: 0.7664

CYLINDER #: 06
 CYLINDER PRESSURE: 76 PSIG
 ANALYSIS DATE: 05/16/2024
 ANALYSIS TIME: 04:44:42 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 05/22/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TAFOYA 1C; CSG	CASING	05/22/2024
Stn. No.:	3004532187	DK	35825-12015
Mtr. No.:	85974-01		

Smpl Date:	05/08/2024	07/28/2021	08/14/2019
Test Date:	05/16/2024	08/04/2021	08/26/2019
Run No:	HS20240096	HS2021166	HS190252
Nitrogen:	0.1581	0.1430	0.2049
CO2:	2.8176	2.3973	0.0562
Methane:	79.7469	80.8721	81.9949
Ethane:	7.7205	7.7536	8.1366
Propane:	4.0780	3.7091	4.1633
I-Butane:	0.9927	0.8431	1.0279
N-Butane:	1.5878	1.3505	1.6307
I-Pentane:	0.8049	0.7372	0.8265
N-Pentane:	0.7016	0.6644	0.6552
Hexane+:	1.3919	1.5297	1.3038
BTU:	1270.5	1263.4	1299.6
GPM:	19.2710	19.1960	19.2980
SPG:	0.7664	0.7549	0.7409



Well Name: TAFOYA 1C; TBG
 API #: 3004532187
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20240097
 Cust No: 35825-11825

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: TAFOYA 1C; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004532187
 85974-01

Source: TUBING
 Well Flowing: Y
 Pressure: 65 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method:
 Sample Date: 05/08/2024
 Sample Time: 11.00 AM
 Sampled By: PETER JIM
 Sampled by (CO): HILCORP

AREA 2 / RUN 0211

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.1922	0.1920	0.0210	0.00	0.0019
CO2	0.7673	0.7664	0.1310	0.00	0.0117
Methane	85.4984	85.4034	14.5360	863.53	0.4736
Ethane	7.8456	7.8369	2.1040	138.84	0.0815
Propane	3.0880	3.0846	0.8530	77.70	0.0470
Iso-Butane	0.6272	0.6265	0.2060	20.40	0.0126
N-Butane	0.8676	0.8666	0.2740	28.30	0.0174
I-Pentane	0.3358	0.3354	0.1230	13.44	0.0084
N-Pentane	0.2321	0.2318	0.0840	9.30	0.0058
Hexane Plus	0.5458	0.5452	0.2440	28.77	0.0181
Total	100.0000	99.8888	18.5760	1180.28	0.6778

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1183.0
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1186.7
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1166.1
 DRY BTU @ 15.025: 1210.5
 REAL SPECIFIC GRAVITY: 0.6796

CYLINDER #: 2152
 CYLINDER PRESSURE: 60 PSIG
 ANALYSIS DATE: 05/16/2024
 ANALYSIS TIME: 04:21:58 PM
 ANALYSIS RUN BY: ALEXIS MITCHELL

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: 05/22/2024

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	TAFOYA 1C; TBG	TUBING	05/22/2024
Stn. No.:	3004532187		35825-11825
Mtr. No.:	85974-01		

Smpl Date:	05/08/2024	07/28/2021	07/25/2019
Test Date:	05/16/2024	08/04/2021	08/07/2019
Run No:	HS20240097	HS2021167	HS190215
Nitrogen:	0.1922	0.1562	0.1637
CO2:	0.7673	0.7070	0.7867
Methane:	85.4984	84.7093	83.4794
Ethane:	7.8456	8.1807	8.1561
Propane:	3.0880	3.3490	3.8633
I-Butane:	0.6272	0.6911	0.7961
N-Butane:	0.8676	0.9311	1.1430
I-Pentane:	0.3358	0.3517	0.4325
N-Pentane:	0.2321	0.2353	0.3238
Hexane+:	0.5458	0.6886	0.8554
BTU:	1186.7	1203.9	1230.2
GPM:	18.5760	18.7040	18.8880
SPG:	0.6796	0.6893	0.7076

District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 352739

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 352739
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	for record	8/5/2024