



Well Name: MCCARTY GAS COM B
 API #: 3004534344
 Source: BRADENHEAD
 Sample Type: GAS
 Analysis No: HS20230033
 Cust No: 35825-14770

Well/Lease Information

Customer Name:	HILCORP (BHD PROJECT)	Source:	BRADENHEAD
Well Name:	MCCARTY GAS COM B #1F; BHD	Well Flowing:	Y
County/State:	SAN JUAN NM	Pressure:	35 PSIG
Location:		Flow Temp:	DEG. F
Lease/PA/CA:		Ambient Temp:	DEG. F
Formation:		Flow Rate:	MCF/D
Cust. Stn. No.:	3004534344	Sample Method:	Purge & Fill
		Sample Date:	05/10/2023
		Sample Time:	12.00 PM
		Sampled By:	SHAD BROWN
		Sampled by (CO):	HILCORP

Heat Trace: AREA 07 / RUN 0703

Remarks: PRESSURED WITH HELIUM TO 30 LBS.

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.7533	0.2481	0.0830	0.00	0.0073
CO2	0.0185	0.0061	0.0030	0.00	0.0003
Methane	92.1639	30.3545	15.6600	930.86	0.5105
Ethane	4.6910	1.5450	1.2570	83.02	0.0487
Propane	1.3590	0.4476	0.3750	34.19	0.0207
Iso-Butane	0.2359	0.0777	0.0770	7.67	0.0047
N-Butane	0.2775	0.0914	0.0880	9.05	0.0056
I-Pentane	0.1044	0.0344	0.0380	4.18	0.0026
N-Pentane	0.0710	0.0234	0.0260	2.85	0.0018
Hexane Plus	0.3255	0.1072	0.1450	17.16	0.0108
Total	100.0000	32.9354	17.7520	1088.97	0.6129

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z):	1.0025	CYLINDER #:	6079
BTU/CU.FT IDEAL:	1091.5	CYLINDER PRESSURE:	PSIG
BTU/CU.FT (DRY) CORRECTED FOR (1/Z):	1094.2	ANALYSIS DATE:	05/12/2023
BTU/CU.FT (WET) CORRECTED FOR (1/Z):	1075.2	ANALYSIS TIME:	09:49:06 AM
DRY BTU @ 15.025:	1116.1	ANALYSIS RUN BY:	KERRA GONZALEZ
REAL SPECIFIC GRAVITY:	0.6142		

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: 05/17/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCARTY GAS COM B #1F; BHD	BRADENHEAD	05/17/2023
Stn. No.:	3004534344		35825-14770
Mtr. No.:			

Smpl Date: 05/10/2023
Test Date: 05/12/2023
Run No: HS20230033

Nitrogen: 0.7533
CO2: 0.0185
Methane: 92.1639
Ethane: 4.6910
Propane: 1.3590
I-Butane: 0.2359
N-Butane: 0.2775
I-Pentane: 0.1044
N-Pentane: 0.0710
Hexane+: 0.3255

BTU: 1094.2
GPM: 17.7520
SPG: 0.6142



Well Name: MCCARTY GAS COM B #1F

API #: 3004534344

Source: CASING

Sample Type: GAS

Analysis No: HS20230034

Cust No: 35825-14780

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCCARTY GAS COM B #1F
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004534344

Source: CASING
 Well Flowing:
 Pressure: 24 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/10/2023
 Sample Time: 12.09 PM
 Sampled By: SHAD BROWN
 Sampled by (CO): HILCORP

AREA 07 / 0703

Heat Trace:

Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.3228	0.3136	0.0360	0.00	0.0031
CO2	0.3859	0.3749	0.0660	0.00	0.0059
Methane	86.0573	83.6007	14.6310	869.18	0.4767
Ethane	7.0820	6.8798	1.8990	125.33	0.0735
Propane	3.4668	3.3678	0.9580	87.23	0.0528
Iso-Butane	0.5155	0.5008	0.1690	16.76	0.0103
N-Butane	0.9338	0.9071	0.2950	30.46	0.0187
I-Pentane	0.3079	0.2991	0.1130	12.32	0.0077
N-Pentane	0.2457	0.2387	0.0890	9.85	0.0061
Hexane Plus	0.6823	0.6628	0.3050	35.96	0.0226
Total	100.0000	97.1453	18.5610	1187.10	0.6774

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.0031
 BTU/CU.FT IDEAL: 1189.8
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1193.5
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1172.7
 DRY BTU @ 15.025: 1217.4
 REAL SPECIFIC GRAVITY: 0.6793

CYLINDER #: 4107
 CYLINDER PRESSURE: 24 PSIG
 ANALYSIS DATE: 05/12/2023
 ANALYSIS TIME: 09:37:00 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: 05/17/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCCARTY GAS COM B #1F	CASING	05/17/2023
Stn. No.:	3004534344		35825-14780
Mtr. No.:			

Smpl Date: 05/10/2023
Test Date: 05/12/2023
Run No: HS20230034

Nitrogen: 0.3228
CO2: 0.3859
Methane: 86.0573
Ethane: 7.0820
Propane: 3.4668
I-Butane: 0.5155
N-Butane: 0.9338
I-Pentane: 0.3079
N-Pentane: 0.2457
Hexane+: 0.6823

BTU: 1193.5
GPM: 18.5610
SPG: 0.6793



Well Name: MCARTY GAS COM B #1F;
 API #: 3004534344
 Source: TUBING
 Sample Type: GAS
 Analysis No: HS20230035
 Cust No: 35825-14775

Well/Lease Information

Customer Name: HILCORP (BHD PROJECT)
 Well Name: MCARTY GAS COM B #1F; TBG
 County/State: SAN JUAN NM
 Location:
 Lease/PA/CA:
 Formation:
 Cust. Stn. No.: 3004534344

Source: TUBING
 Well Flowing: Y
 Pressure: 19 PSIG
 Flow Temp: DEG. F
 Ambient Temp: DEG. F
 Flow Rate: MCF/D
 Sample Method: Purge & Fill
 Sample Date: 05/10/2023
 Sample Time: 12.05 PM
 Sampled By: SHAD BROWN
 Sampled by (CO): HILCORP

AREA 07 / RUN 0703

Heat Trace:
 Remarks:

Analysis

Component::	Mole%:	Unnormalized %:	**GPM:	*BTU:	*SP Gravity:
Nitrogen	0.2969	0.2905	0.0330	0.00	0.0029
CO2	1.2342	1.2078	0.2110	0.00	0.0188
Methane	78.1889	76.5148	13.3050	789.71	0.4331
Ethane	10.5201	10.2948	2.8240	186.17	0.1092
Propane	5.0714	4.9628	1.4020	127.60	0.0772
Iso-Butane	0.8696	0.8510	0.2860	28.28	0.0175
N-Butane	1.5815	1.5476	0.5000	51.59	0.0317
I-Pentane	0.6075	0.5945	0.2230	24.31	0.0151
N-Pentane	0.4981	0.4874	0.1810	19.97	0.0124
Hexane Plus	1.1318	1.1076	0.5070	59.66	0.0375
Total	100.0000	97.8588	19.4720	1287.29	0.7553

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY

**@ 14.730 PSIA & 60 DEG. F.

COMPRESSIBILITY FACTOR (1/Z): 1.004
 BTU/CU.FT IDEAL: 1290.3
 BTU/CU.FT (DRY) CORRECTED FOR (1/Z): 1295.4
 BTU/CU.FT (WET) CORRECTED FOR (1/Z): 1272.9
 DRY BTU @ 15.025: 1321.3
 REAL SPECIFIC GRAVITY: 0.7581

CYLINDER #: 6127
 CYLINDER PRESSURE: 22 PSIG
 ANALYSIS DATE: 05/12/2023
 ANALYSIS TIME: 09:46:18 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: 05/17/2023

GC Method: C6+ Gas



HILCORP (BHD PROJECT)
WELL ANALYSIS COMPARISON

Lease:	MCARTY GAS COM B #1F; TBG	TUBING	05/17/2023
Stn. No.:	3004534344		35825-14775
Mtr. No.:			

Smpl Date: 05/10/2023
Test Date: 05/12/2023
Run No: HS20230035

Nitrogen: 0.2969
CO2: 1.2342
Methane: 78.1889
Ethane: 10.5201
Propane: 5.0714
I-Butane: 0.8696
N-Butane: 1.5815
I-Pentane: 0.6075
N-Pentane: 0.4981
Hexane+: 1.1318

BTU: 1295.4
GPM: 19.4720
SPG: 0.7581

District I
1625 N. French Dr., Hobbs, NM 88240
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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 218080

CONDITIONS

Operator: HILCORP ENERGY COMPANY 1111 Travis Street Houston, TX 77002	OGRID: 372171
	Action Number: 218080
	Action Type: [UF-GA] Gas Analysis (GAS ANALYSIS)

CONDITIONS

Created By	Condition	Condition Date
mkuehling	different	10/6/2023